BACK RIVER PROJECT
Final Submission Responses for
Water Licence (2AM-BRP1831) Amendment

June 25, 2021

BACK RIVER PROJECT
Responses to Water Licence Amendment FSs

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Attachments

Attachment FS-A: DWLF Ver2 (June 25, 2021)

Attachment FS-B: SSWQO Derivation Documents

Attachment FS-C: POPCs Goose Lake

1. Responses to Comments

1.1 RESPONSE TO KITIKMEOT INUIT ASSOCIATION

KIA-TC-01: SSWQO for Nitrate

Detailed Review Comment

In Section 3.1 Nitrate, Sabina states, "To adopt the hardness dependent equation developed for the Ekati Diamond Mine as the [Site Specific Water Quality Objective] SSWQO for nitrate in Goose Lake (Table 4; Rescan 2012) when hardness concentrations are greater than or equal to 26.4 mg/L as $CaCO_3$ in Goose Lake."

The reviewer agrees that toxicity modifying factors should be taken into consideration when determining parameter guidelines, however information (such as the model used to calculate the guideline) should be provided and reviewed to assess its applicability to Goose Lake and the Hope Bay mine.

Recommendation/Request:

We recommend Sabina,

1. Substantiate that the Ekati Diamond Mine hardness dependent equation for nitrate is appropriate for Goose Lake.

2. Provide the SSWQO derivation document for review.

3. Discuss why a nitrate SSWQO is required for Goose Lake.

Sabina Response:

Part 1: Sabina is proposing to use the maximum concentration from either the generic Canadian Council of Ministers of the Environment (CCME) nitrate water quality guideline (WQG) for the protection of aquatic life, or the hardness-dependent site-specific water quality objective (SSWQO) for nitrate calculated from the hardness dependent equation for nitrate adopted from the Ekati Diamond Mine. Specifically, if the hardness concentration in the sample is less than 26.4 mg/L as $CaCO_3$, then Sabina is proposing to use the generic WQG for the protection of aquatic life of 2.93 mg-N/L for nitrate (CCME 2012) as the SSWQO. If the hardness concentration in the sample is greater than or equal to 26.4 mg/L as $CaCO_3$, then Sabina is proposing to use the hardness-dependent SSWQO equation to calculate the SSWQO for nitrate. The use of the Ekati Diamond Mine hardness dependent equation for nitrate in this way for Goose Lake is appropriate because receiving environment characteristics are comparable between Leslie Lake at the Ekati Mine and Goose Lake at the Back River Project, and there is no scientific basis to conclude that this equation would not be applicable to Goose Lake. In addition, the hardness-based equation developed for Ekati Mine has been used and validated at other mine sites in sub-Arctic environments.

- In developing a SSWQO for the Ekati Mine, Rescan (2012) demonstrated hardness dependency in the available nitrate toxicity data relevant to sub-Arctic environments, which was accepted by regulatory agencies. The hardness-based equation developed by Rescan (2012) is applicable to Goose Lake because the water hardness range predicted for Goose Lake (i.e., approximately 13 to 97 mg/L as $CaCO_3$) is within the range assessed by Rescan (2012) (i.e., 10 to 160 mg/L $CaCO_3$).

- The use of this nitrate hardness dependent equation to derive a SSWQO for nitrate was accepted by the Wek'èezhìi Land and Water Board for the Ekati Diamond Mine. Subsequently, the hardness-dependent equation has been used to calculate approved SSWQOs for nitrate at other diamond mines in northern Canada (e.g., Snap Lake Mine, Gahcho Kué Mine). Adoption of this equation for SSWQO development for Snap Lake was validated through toxicity testing with sensitive invertebrate and fish species as part of nitrogen response planning.

- A comparison of the Ca:Mg ratios (by mass) modelled in Goose Lake during Project Construction and Operations to those measured in Leslie Lake in 2019, downstream of the Long Lake Containment Facility at the Ekati Mine, is provided in Table KIA-TC-1.1. The slight difference in Ca:Mg ratios is due to the relatively higher magnesium content in Leslie Lake compared to the projections in Goose Lake. The variance in magnesium proportion is not considered notable because calcium is judged to have the greater influence on mitigating toxicity of major ions and metals (CCME 2012); therefore, a relatively greater contribution of calcium to overall hardness may enhance the benefits of the increased hardness on ameliorating nitrate toxicity.

Table KIA-TC-1.1: Comparison of Calcium to Magnesium Concentrations and Ratios between Goose Lake and Leslie Lake

Goose Lake[(a)]					
Arc100					
Year	Month	Average Calcium (mg/L)	Average Magnesium (mg/L)	Calcium: Magnesium Ratio	Average Hardness (mg/L as $CaCO_3$)
2023	April	13.8	3.9	3.6	51
2023	August	7.6	2.0	3.8	27
2032	April	23.8	5.5	4.3	82
2032	August	9.6	2.3	4.2	33
Arc200					
Year	Month	Average Calcium (mg/L)	Average Magnesium (mg/L)	Calcium: Magnesium Ratio	Average Hardness (mg/L as $CaCO_3$)
2023	April	13.9	3.9	3.6	51
2023	August	7.4	2.0	3.7	27
2032	April	26.2	6.1	4.3	90
2032	August	9.4	2.3	4.2	33
Arc500					
Year	Month	Average Calcium (mg/L)	Average Magnesium (mg/L)	Calcium: Magnesium Ratio	Average Hardness (mg/L as $CaCO_3$)
2023	April	13.8	3.9	3.6	50
2023	August	7.3	2.0	3.7	26
2032	April	21.8	5.1	4.3	75
2032	August	9.3	2.2	4.2	32

Table KIA-TC-1.1: Comparison of Calcium to Magnesium Concentrations and Ratios between Goose Lake and Leslie Lake

Arc1000					
Year	Month	Average Calcium (mg/L)	Average Magnesium (mg/L)	Calcium: Magnesium Ratio	Average Hardness (mg/L as $CaCO_3$)
2023	April	15.4	4.3	3.6	56
2023	August	7.2	2.0	3.7	26
2032	April	27.6	6.4	4.3	95
2032	August	9.2	2.2	4.1	32
Tail					
Year	Month	Average Calcium (mg/L)	Average Magnesium (mg/L)	Calcium: Magnesium Ratio	Average Hardness (mg/L as $CaCO_3$)
2023	April	15.9	4.5	3.6	58
2023	August	6.6	1.8	3.6	24
2032	April	22.5	5.2	4.3	78
2032	August	8.2	2.0	4.1	29
Leslie Lake[(b)]					
Year	Month	Average Calcium (mg/L)	Average Magnesium (mg/L)	Calcium: Magnesium Ratio	Average Hardness (mg/L as $CaCO_3$)
2019	April	50	26	2.0	231
2019	August	30	17	1.7	146

mg/L = milligrams per litre; $CaCO_3$ = calcium carbonate.

(a) Calcium and magnesium concentrations and ratios are from the hydrodynamic model of Goose Lake. Predictions are presented at five locations (i.e., Arc100, Arc200, Arc500, Arc1000, and Tail) in Goose Lake. The Arc100 results were calculated by taking the predicted daily maximum concentrations along an arc that is 100 m from the discharge location in Goose Lake and averaging the daily results for each month.

(b) Average concentrations from the 2019 Ekati Mine AEMP (ERM 2020).

Part 2: The SSWQO derivation documents are attached (Attachment FS-B).

Part 3: A nitrate SSWQO is required for Goose Lake because at a constant nitrate discharge concentration of 60 mg-N/L, which is the proposed maximum authorized monthly mean concentration, nitrate concentrations are predicted to exceed the CCME WQG of 2.93 mg-N/L during ice-cover periods (Figure KIA-TC-1.1).

With a proposed maximum authorized monthly mean concentration of 60 mg-N/L, the Project may require treatment of effluent before discharge to Goose Lake. The maximum nitrate concentration in the Primary Pond is predicted to be 97 m-N/L and in Llama Tailings Facility is predicted to be 48 mg-N/L. The opportunity to use a SSWQO for nitrate in Goose Lake will reduce the level of effluent treatment required for the Project, while maintaining protection of aquatic life in Goose Lake.

Reference:

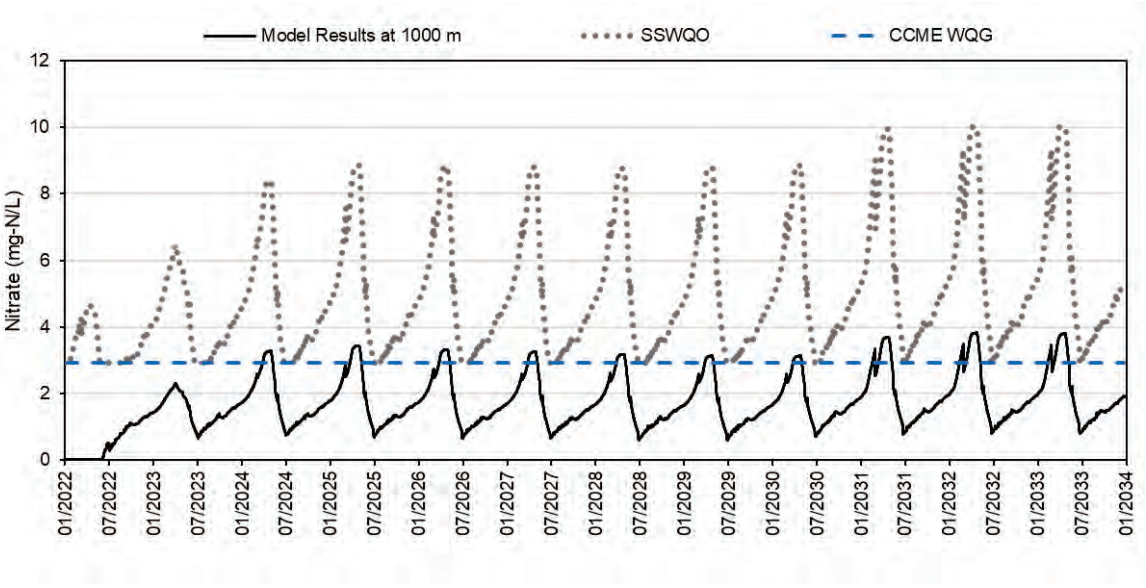
CCME (Canadian Council of Ministers of the Environment). 2012. Canadian Water Quality Guidelines: Nitrate Ion. Scientific Criteria Document. Canadian Council of Ministers of the Environment, Winnipeg, MB, Canada.

ERM (ERM Consultants Canada Ltd.). 2020. Ekati Diamond Mine 2019 Aquatics Effects Monitoring Program Annual Report. Prepared for Dominion Diamond Mines ULC by ERM Consultants Canada Ltd. Yellowknife, NT, Canada. June 2020.

Rescan (Rescan Environmental Services Ltd.). 2012. Ekati Diamond Mine: Site-specific Water Quality Objective for Nitrate. Prepared for BHP Billiton Canada Inc. by Rescan Environmental Services Ltd. Yellowknife, NT, Canada

Attachment: FS-B: SSWQO Derivation Documents (KIA-TC-01 Part 2)

Figure KIA-TC-1.1: Predicted Maximum Nitrate Concentrations in Goose Lake with a Constant Discharge Concentration of 60 mg-N/L



mg/L = milligrams per litre; N = nitrogen; CCME = Canadian Council of Ministers of the Environment; WQG = water quality guideline; SSWQO = site-specific water quality objective.

KIA-TC-02: Total Phosphorus Requires an EQC

Detailed Review Comment

In Section 5.1 Sabina states, "In this report, total phosphorus was not considered a POI because total phosphorus does not have a toxicity based guideline. However, Sabina commits to reviewing the baseline nutrient concentrations in Goose Lake, including total phosphorus concentrations, reviewing predicted total phosphorus concentrations in the discharges to Goose Lake in operations, and determining whether total phosphorus should be a POI. If total phosphorus is identified as a POI, Sabina commits to simulating total phosphorus concentrations in Goose Lake and developing EQC for total phosphorus following the methods described in this report."

Goose Lake is an ultra-oligotrophic lake and is sensitive to changes in nutrients. Given the sources of phosphorus on the mine site, there is the potential to increase total phosphorus concentrations in the lake thereby altering its trophic status resulting in degradation of water quality and aquatic habitat. We specifically highlight the total phosphorus concentrations associated with key infrastructure such as waste rock piles and pits outlined in Appendix C – Water Chemistry Input Data of the June 2020 Back River Project Water and Load Balance Report.

While not toxic total phosphorus can have large ecological implications on the aquatic inhabitants of the lake. To ensure aquatic biota in Goose Lake are protected we recommend Sabina consider total phosphorus a parameter of concern and commit to an EQC for it.

Recommendation/Request:

We recommend Sabina, consider total phosphorus a parameter of concern and commit to an EQC protective of trophic changes to Goose Lake.

Sabina Response:

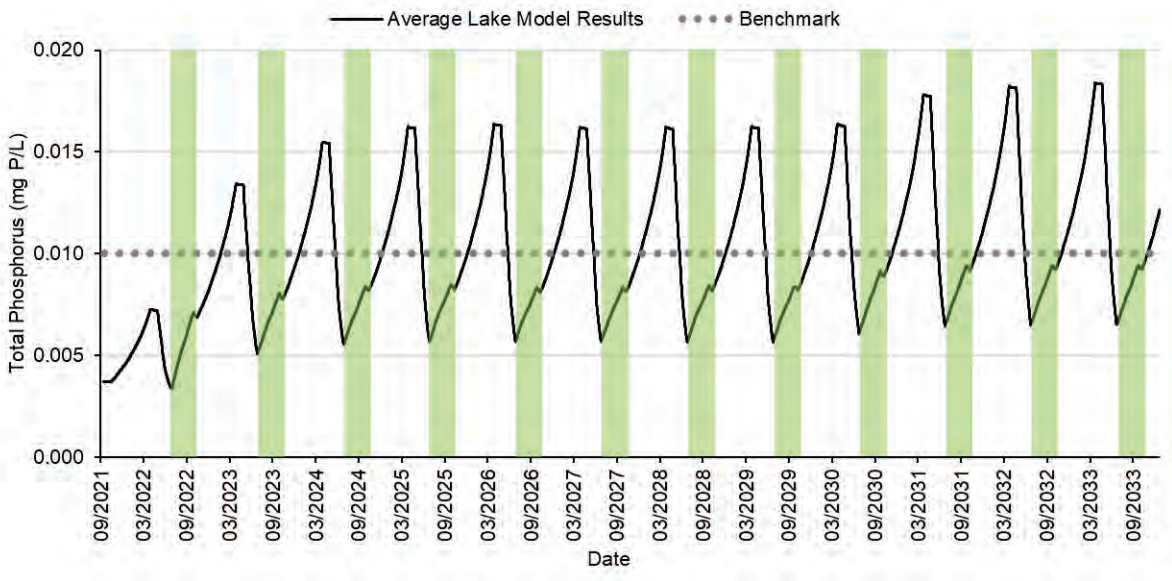
Sabina confirms that total phosphorus was added to the hydrodynamic model of Goose Lake (Goose Lake Model). Based on the screening process to identify parameters of potential concern (POPC), total phosphorus was identified as a POPC. These basis for screening in phosphorus as a POPC was because the predicted average total phosphorus concentration in Goose Lake with effluent discharge from Llama Tailings Facility was 0.088 mg-P/L, which is greater than 0.010 mg-P/L. Predicted average total phosphorus concentrations in Goose Lake were compared to 0.010 mg-P/L, which is the trigger level to maintain oligotrophic status in Goose Lake. The Canadian Council of Ministers of the Environment (CCME 2004) define oligotrophic status as having total phosphorus concentrations that range from 0.004 mg-P/L to 0.010 mg-P/L.

Total phosphorus effluent quality criteria (EQC) were calculated following the same methods described in Golder (2021), except predicted average total phosphorus concentrations in Goose Lake were compared to the trigger level to maintain oligotrophic status during the open-water season. Total phosphorus EQC were calculated for the discharge location in the main body of the lake (Location B; Figure 1 of Golder [2021]) at a discharge rate of 1,900 m^3/day, and an annual discharge period from 1 July to 30 September. The maximum authorized monthly mean EQC for total phosphorus was determined using the Goose Lake Model to identify a constant concentration of total phosphorus that the Project could discharge from tailings facilities or reservoirs to Goose Lake such that average concentrations of total phosphorus in Goose Lake remain below 0.010 mg-P/L during the open-water season.

The proposed maximum authorized monthly mean concentration for total phosphorus is 0.25 mg-P/L and the proposed maximum authorized concentration in a grab sample for total phosphorus is 0.50 mg-P/L. At a maximum authorized monthly mean concentration of 0.25 mg-P/L, average total phosphorus concentrations in Goose Lake are predicted to remain below 0.010 mg-P/L during the open-water season (i.e., time periods shaded in green in Figure KIA-FC-2.1).

It is important to remember that the trigger level of 0.010 mg-P/L for total phosphorus is not toxicity-based (i.e., an increase in phosphorus concentrations does not impart any direct toxicity risk to aquatic life) but is associated with generic trophic levels established for Canadian lakes and rivers (CCME 2004, Environment Canada 2004). For lake environments subject to snow and ice cover conditions that limit productivity due to cold temperatures and limited light penetration into the lake during winter, such as Goose Lake, spring or mean annual open water phosphorus concentrations are considered more appropriate in determining the trophic status in these lakes and therefore more appropriate in determining chlorophyll/algal biomass potential in these lakes (Schindler 1978). Under these conditions, the average total phosphorus concentrations remain well below the upper boundary concentration for oligotrophic conditions (time periods shaded in green in Figure KIA-TC-2.1).

Figure KIA-TC-2.1: Predicted Average Total Phosphorus Concentrations in Goose Lake with a Constant Discharge Concentration of 0.25 mg P/L



Note: The time periods shaded in green represent the open-water period from July 1 to October 15 each year in the hydrodynamic model.

mg/L = milligrams per litre; P = phosphorus.

Reference:

CCME (Canadian Council of Ministers of the Environment). 2004. Canadian Water Quality Guidelines for the Protection of Aquatic Life: Phosphorus: Canadian Guidance Framework for the Management of Freshwater Systems. Canadian Environmental Quality Guidelines, 2004. Winnipeg, MB, Canada.

Environment Canada. 2004. Canadian Guidance Framework for the Management of Phosphorus in Freshwater Systems. Scientific Supporting Document. National Guidelines and Standards Office, Water Policy and Coordination Directorate, Ottawa, ON, Canada.

Golder (Golder Associates Ltd.). 2021. Sabina Gold & Silver Corporation Back River Project. Effluent Quality Criteria Report for Effluent Discharged from Tailings Facilities, Tailings Storage Facilities, or Reservoirs - Version 1. Submitted to Sabina Gold & Silver Corporation, Vancouver, BC, Canada.

Schindler D. 1978. Factors regulating phytoplankton production and standing crop in the world's freshwaters. Limnol. Oceanog. 23 (3) 478-487.

KIA-TC-03: Maximum Authorized Concentrations of Total Petroleum Hydrocarbons

Detailed Review Comment

In Section 7.3, Sabina states, "It is proposed that the maximum authorized monthly mean concentration and the maximum authorized concentration in a grab sample for TPH be set at 3 mg/L and 6 mg/L, which are the same values as other mines in Nunavut (i.e., Agnico Eagle Mines Limited Water Licence No.: 2AM-WTP1830)." Goose Lake is a fish bearing lake. Introducing TPH may have a detrimental impact on the fish of the lake. To fully understand the implications of increasing the concentrations of TPH on resident fish a discussion must be provided on potential impacts.

Recommendation/Request:

We recommend Sabina provide background information discussing the appropriateness of the proposed maximum authorized monthly mean concentration and maximum authorized concentration in a grab sample for TPH for Goose Lake.

Sabina Response:

The proposed effluent quality criteria for total petroleum hydrocarbons (TPH) are consistent with other projects in the Northwest Territories and Nunavut that have discharges into fish-bearing lakes. Canadian water quality guidelines (WQGs) for TPH have not been developed. However, Alberta Environment and Parks (AEP) has developed groundwater remediation guidelines for natural areas for hydrocarbon fractions F1 (2.2 mg/L) and F2 (1.1 mg/L) (Government of Alberta 2019). The maximum authorized monthly mean concentration proposed for TPH of 3 mg/L is approximately the summation of the groundwater remediation guidelines for the F1 and F2 hydrocarbon fractions. These guidelines are proposed in the absence of Canadian WQGs.

Reference:

AEP (Alberta Environment and Parks). 2019. Alberta Tier 1 Soil and Groundwater Remediation Guidelines. Land Policy Branch, Policy and Planning Division. Edmonton, AB, Canada. [accessed: June 2021] https://open.alberta.ca/dataset/842becf6-dc0c-4cc7-8b29-e3f383133ddc/resource/a5cd84a6-5675-4e5b-94b8-0a36887c588b/download/albertatier1guidelines-jan10-2019.pdf

KIA-TC-04: Modeling Scenarios

Detailed Review Comment

In Section 4.0 Sabina states, "One mine-affected inflow (effluent discharge) to Goose Lake, which is from the Primary Pond and Llama Tailings Facility (SRK 2020). Separate model simulations were conducted for the Primary Pond discharge and the Llama Tailings Facility discharge." If there is the potential for effluent from the Primary Pond and Llama Tailings Facility to be discharging simultaneously, then the potential for cumulative effects exists and does not appear to have been considered; a simultaneous discharge scenario should be modeled to characterize that potentiality. We recommend that Sabina re-run modeling with discharges from the Primary Pond and Llama Tailings Facility occurring simultaneously or commit to only one point of discharge.

In Section 6.1.1 Sabina states, "Approximately 50 Goose Lake Model scenarios were performed, which are described below:

- Discharge location: two locations in Goose Lake were evaluated for the effluent discharge (location A in the neck of Goose Lake, and location B in the main body of the lake; Figure 1).
- Discharge rate: two effluent discharge rates were evaluated including 1,900 and 2,500 m^3/d.
- Discharge chemistry: several effluent concentrations for POPC were evaluated.
- Discharge period: two discharge periods during the open water season were evaluated, including 1 July to mid-October and 1 July to 30 September."

The type of discharge was not discussed. Is Sabina considering a single point discharge or a multiport diffuser? Information discussing the type of discharge would provide the reviewer with a better understanding of the mixing of the effluent in Goose Lake.

Two rates of discharge were modeled (1,900 m^3/d and 2,500 m^3/d) but there was no discussion surrounding the expected discharge needs of the mine. Is the lower rate of 1,900 m^3/d reasonable for Sabina? Further, no results for the 2,500 m^3/d scenario were presented in the memo.

Several effluent concentrations for POPCs were modeled but what those concentrations were based on was not discussed or how Sabina chose those concentrations was not discussed. The potential or expected range of concentrations for each POPC would allow the reviewer to determine if the modeled concentrations were reasonable or under predicted.

Recommendation/Request:

We recommend Sabina,

1. Clarify if simultaneous discharges from the Primary Pond and Llama Tailing Facilities is planned or may be required.

2. If there is the potential for simultaneous discharges to Goose Lake, then a scenario modelling the combined discharge is required.

3. Provide mixing characteristics of each potential discharge (i.e. single versus multi-port diffuser.).

4. Provide a discussion surrounding rate of discharge and the needs of the mine and model results for the 2,500 m^3/d discharge scenarios.

5. Provide a range of predicted concentrations for each POPC under each model scenario.

Sabina Response:

Sabina would like to clarify that several Goose Lake model scenarios were completed with varying discharge rates, discharge locations in Goose Lake, discharge time periods, and discharge chemistry. The purpose of the scenarios was to help Sabina arrive at the proposed effluent quality criteria (EQC) in Golder (2021). The proposed EQC were developed for a discharge rate of 1,900 m^3/day, a discharge location in the main basin of Goose Lake (i.e., Location B), and an annual discharge time period from July 1 to September 30.

Parts 1 and 2: Discharges may occur from either the Primary Pond and/or Llama Tailings Facility, however the total discharge volume would not exceed 1900 m^3/day.

Part 3: A diffuser was not included in the hydrodynamic model of Goose Lake because engineering designs for a diffuser have not been completed. Adding a diffuser to the hydrodynamic model will not change the proposed EQC for the Project.

Part 4: Two effluent discharge rates were tested in the hydrodynamic model of Goose Lake: 1,900 and 2,500 m^3/day. The proposed EQC are for a discharge rate of 1,900 m^3/day.

Part 5: As committed to in the Technical Meetings, a hydrodynamic model sensitivity analysis will be included in the next update to the hydrodynamic model.

Reference:

Golder (Golder Associates Ltd.). 2021. Sabina Gold & Silver Corporation Back River Project. Effluent Quality Criteria Report for Effluent Discharged from Tailings Facilities, Tailings Storage Facilities, or Reservoirs - Version 1. Submitted to Sabina Gold & Silver Corporation, Vancouver, BC, Canada.

KIA-TC-05: Predicted Concentrations

Detailed Review Comment

In Section 5.2.2 Sabina states, "The comparison was completed for maximum concentrations in Goose Lake at 1,000 m from the discharge point. As presented in Table 5, maximum concentrations in Goose Lake at 1,000 m from the discharge point were predicted to be higher than maximum concentrations at 100 m, 200 m, and 500 m from the discharge point and at the outlet of Goose Lake."

Typically, the influence of the mine should be closest to the point of discharge and decrease with distance; this understanding is at the core of a regulated mixing zone. It is concerning those concentrations were predicted to increase with distance from the mine between 100 m and 1000 m from the discharge. We recommend Sabina provide a rationale as this is counterintuitive to normal processes.

Recommendation/Request:

We recommend Sabina provide a rationale for the increase in parameter concentrations further from the point of discharge and clarify if the aquatic monitoring program is sufficient to evaluate impacts to the aquatic environment at those locations.

Sabina Response:

Parameter concentrations at locations further from the point of discharge are greater than parameter concentrations at the point of discharge during the ice-cover period (note: there are no discharges under ice). Goose Lake has a unique shape with a narrow and relatively shallow neck. The location further from the discharge point (i.e., 1,000 m) is shallower than where the discharge point is located. During the ice-cover period, the water withdrawn from the lake to form ice has no associated parameter mass (i.e., cryoconcentration), thus, mass is rejected and remains in the smaller volume of water below the ice. As a result, during the ice-cover period, concentrations are predicted to be slightly greater at that shallow location (i.e., 1,000 m from the discharge point) compared to closer to discharge point (e.g., 100 m). Although concentrations at 1,000 m are higher than the other assessment nodes, the elevated concentrations are limited to under ice conditions and remain protective of aquatic life.

Under ice conditions have been and will be monitored as part of the Aquatic Effect Management Plan (AEMP) program. Model predictions for Operations will be evaluated against the monitoring data collected during ice-cover and open-water seasons from various locations in Goose Lake, including shallow locations and deep locations. Sabina's next AEMP update will include a review of the available information and an updated design that allows for appropriate monitoring at the discharge location B in Goose Lake.

Reference: n/a

KIA-TC-06: Total Ammonia Effluent Quality Criteria

Detailed Review Comment

In Section 6.2.1 Sabina states, "The EQC for total ammonia were selected based on maintaining the pH of the effluent and the pH in Goose Lake between 6.0 and 7.3. The EQC for total ammonia are proposed to be 6 mg-N/L and 12 mg-N/L."

In Section 7.1, Sabina states, "The MDMER limits include a pH range between 6.0 and 9.5. It is proposed that the MDMER limits be applied as EQC for effluent discharged from tailings facilities, tailings storage facilities, or other reservoirs."

The expected pH of the effluent needs to be confirmed to determine if the proposed total ammonia EQC is appropriate. If the EQC for total ammonia is selected based on maintaining a pH of the effluent between 6.0 and 7.3 than a more constrained EQC range for pH than outlined in MDMER is required. Furthermore, no background water quality data for Goose Lake was provided to substantiate whether the pH in Goose Lake can be expected to remain between 6.0 and 7.3 with the discharge of effluent. The range of temperatures for both the effluent and Goose Lake should also be provided to substantiate whether the total ammonia EQC is appropriate given the impact temperature can have on concentrations of unionized ammonia.

Recommendation/Request:

We recommend Sabina,

1. Clarify the expected pH range of the effluent and confirm whether an EQC for pH of 6.0 to 7.3 corresponding to the proposed total ammonia EQC is required to prevent deleterious effects to Goose Lake resulting from unionized ammonia.

2. Provide background information discussing the range in pH and temperature for Goose Lake during the discharge period and the expected temperature of the effluent.

Sabina Response:

Part 1: The pH of the effluent will depend on unit operations in the water treatment plant. The Project will have the ability to adjust the pH of the effluent if necessary. The pH range from 6.0 to 7.3 is the baseline pH range in Goose Lake (Golder 2019).

A pH range from 6.0 to 7.3 is not required to meet the Metal and Diamond Mining Effluent Regulations (MDMER) limit for unionized ammonia in the discharge to Goose Lake. The MDMER limit for unionized ammonia is 0.5 mg-N/L. Table KIA-TC-6.1 shows the concentrations of unionized ammonia in the effluent with a maximum authorized monthly mean total ammonia concentration of 6 mg-N/L and a maximum authorized total ammonia concentration in a grab sample of 12 mg-N/L over a pH range from 6.0 to 9.5 and a water temperature of 20°C. At a pH greater than or equal to 8.4 and a total ammonia concentration of 6 mg-N/L, the unionized ammonia concentration in the effluent will be greater than the MDMER limit of 0.5 mg-N/L. At a pH greater than or equal to 8.1 and a total ammonia concentration of 12 mg-N/L, the unionized ammonia concentration in the effluent will be greater than the MDMER limit of 0.5 mg-N/L. Tables KIA-TC-6.2 and KIA-TC-6.3 show how the pH range over which the unionized ammonia concentration in the effluent greater than 0.5 mg-N/L changes as the water temperature decreases. A wider pH range, as provided by MDMER and proposed for the Project (i.e., 6.0 to 9.5) allows for flexibility and accounts for changing water temperatures and varying total ammonia concentrations in the effluent.

Part 2: Baseline data of the pH and temperature ranges observed in Goose Lake are provided in Golder (2019). The temperature of the effluent is expected to be similar to the temperature in Goose Lake.

Table KIA-TC-6.1: Unionized Ammonia Concentrations for the Proposed Total Ammonia Effluent Quality Criteria, a pH Range from 6.0 to 9.5, and a Water Temperature of 20°C

pH	Water Temperature (°C)	Total Ammonia Concentration of 6 mg-N/L	Total Ammonia Concentration of 12 mg-N/L
		Un-ionized Ammonia (mg-N/L)[(a)]	Un-ionized Ammonia (mg-N/L)[(a)]
6.0	20	0.002	0.005
6.1	20	0.003	0.006
6.2	20	0.004	0.008
6.3	20	0.005	0.009
6.4	20	0.006	0.012
6.5	20	0.008	0.015
6.6	20	0.009	0.019
6.7	20	0.012	0.024
6.8	20	0.015	0.030
6.9	20	0.019	0.038
7.0	20	0.024	0.047
7.1	20	0.030	0.059
7.2	20	0.037	0.075
7.3	20	0.047	0.094
7.4	20	0.059	0.118
7.5	20	0.074	0.148
7.6	20	0.093	0.186
7.7	20	0.117	0.233
7.8	20	0.146	0.292
7.9	20	0.183	0.366
8.0	20	0.228	0.457
8.1	20	0.285	0.570
8.2	20	0.354	0.708
8.3	20	0.439	0.878
8.4	20	0.543	1.085
8.5	20	0.667	1.335
8.6	20	0.817	1.633
8.7	20	0.993	1.986
8.8	20	1.199	2.398
8.9	20	1.435	2.870
9.0	20	1.701	3.403
9.1	20	1.995	3.991
9.2	20	2.313	4.626
9.3	20	2.647	5.295
9.4	20	2.991	5.982
9.5	20	3.335	6.670

(a) Un-ionized ammonia concentrations were calculated using Equation 1 in Golder (2021); °C = degrees Celsius; mg/L = milligrams per litre; N = nitrogen.

Table KIA-TC-6.2: Unionized Ammonia Concentrations for the Proposed Total Ammonia Effluent Quality Criteria, a pH Range from 6.0 to 9.5, and a Water Temperature of 15°C

pH	Water Temperature (°C)	Total Ammonia Concentration of 6 mg-N/L	Total Ammonia Concentration of 12 mg-N/L
		Un-ionized Ammonia (mg-N/L)[(a)]	Un-ionized Ammonia (mg-N/L)[(a)]
6.0	15	0.002	0.003
6.1	15	0.002	0.004
6.2	15	0.003	0.005
6.3	15	0.003	0.007
6.4	15	0.004	0.008
6.5	15	0.005	0.010
6.6	15	0.007	0.013
6.7	15	0.008	0.016
6.8	15	0.010	0.021
6.9	15	0.013	0.026
7.0	15	0.016	0.033
7.1	15	0.021	0.041
7.2	15	0.026	0.052
7.3	15	0.032	0.065
7.4	15	0.041	0.082
7.5	15	0.051	0.103
7.6	15	0.064	0.129
7.7	15	0.081	0.162
7.8	15	0.102	0.203
7.9	15	0.127	0.255
8.0	15	0.159	0.319
8.1	15	0.199	0.398
8.2	15	0.249	0.497
8.3	15	0.310	0.619
8.4	15	0.385	0.770
8.5	15	0.477	0.953
8.6	15	0.588	1.176
8.7	15	0.722	1.443
8.8	15	0.881	1.762
8.9	15	1.069	2.137
9.0	15	1.286	2.572
9.1	15	1.534	3.068
9.2	15	1.811	3.622
9.3	15	2.115	4.230
9.4	15	2.440	4.880
9.5	15	2.779	5.558

(a) Un-ionized ammonia concentrations were calculated using Equation 1 in Golder (2021); °C = degrees Celsius; mg/L = milligrams per litre; N = nitrogen.

Table KIA-TC-6.3: Unionized Ammonia Concentrations for the Proposed Total Ammonia Effluent Quality Criteria, a pH Range from 6.0 to 9.5, and a Water Temperature of 10°C

pH	Water Temperature (°C)	Total Ammonia Concentration of 6 mg-N/L	Total Ammonia Concentration of 12 mg-N/L
		Un-ionized Ammonia (mg-N/L)[(a)]	Un-ionized Ammonia (mg-N/L)[(a)]
6.0	10	0.001	0.002
6.1	10	0.001	0.003
6.2	10	0.002	0.004
6.3	10	0.002	0.004
6.4	10	0.003	0.006
6.5	10	0.004	0.007
6.6	10	0.004	0.009
6.7	10	0.006	0.011
6.8	10	0.007	0.014
6.9	10	0.009	0.018
7.0	10	0.011	0.022
7.1	10	0.014	0.028
7.2	10	0.018	0.035
7.3	10	0.022	0.044
7.4	10	0.028	0.056
7.5	10	0.035	0.070
7.6	10	0.044	0.088
7.7	10	0.055	0.111
7.8	10	0.069	0.139
7.9	10	0.087	0.174
8.0	10	0.109	0.219
8.1	10	0.137	0.274
8.2	10	0.171	0.343
8.3	10	0.214	0.429
8.4	10	0.267	0.535
8.5	10	0.333	0.665
8.6	10	0.413	0.826
8.7	10	0.511	1.021
8.8	10	0.629	1.258
8.9	10	0.771	1.542
9.0	10	0.939	1.879
9.1	10	1.136	2.273
9.2	10	1.364	2.728
9.3	10	1.621	3.243
9.4	10	1.908	3.816
9.5	10	2.219	4.438

(a) Un-ionized ammonia concentrations were calculated using Equation 1 in Golder (2021); °C = degrees Celsius; mg/L = milligrams per litre; N = nitrogen.

Reference:

Golder (Golder Associates Ltd.). 2019. Sabina Gold & Silver Corporation Back River Project - Aquatic Baseline Synthesis Report. Appendix A to the Aquatics Effects Management Plan. Submitted to Sabina Gold & Silver Corporation, Vancouver, BC, Canada. July 2019. Golder Document No.: 18114181-047-RPT-Rev0.

KIA-TC-07: Model Duration

Detailed Review Comment

The model is run from January 2022 to January 3034 during this time several parameters (total arsenic, total iron, total lead, free cyanide, and total aluminum) have an increasing trend overtime. To determine if there is the potential for any of these toxic parameters to exceed their respective benchmarks a longer time frame should be modeled, specifically until parameters reach a steady state. It is difficult to evaluate from the figures in Appendix A if predicted lead concentrations exceed CCME guidelines overtime. Please provide the actual values and not just figures of concentrations to review predicted concentrations and CCME and SSWQOs.

Recommendation/Request:

We recommend Sabina,

1. Run the model until steady state for all parameters is achieved.

2. Provide predicted concentrations of POPCs, pH and hardness (as a toxicity modifying factor) to determine if concentrations of POPCs exceed their respective CCME and SSWQOs over time.

Sabina Response:

Part 1: The model simulation period is limited to the timeframe agreed on in the Technical Meetings (NWB PHC Decision report (NWB, 2021) Appendix D, List of Commitments NO. 3 and 4) *"Sabina to provide additional hydrodynamic model results for years 1 through 10, to assess water quality in Goose Lake including at discharge and other reference stations (e.g., at approx. 100 m, 200 m from each inflow into Goose Lake*). Sabina highlights that the hydrodynamic model presented in this study includes Year 1 to 13 rather than ending at Year 10. The modelled period covers the operational period for which EQC are proposed.

Extending the simulations period beyond Operations to include Closure and Post-Closure will be provided in the updated hydrodynamic model, which will be completed 90 days following approval of the Licence. This model update will incorporate inflow rates and chemistry for the Closure and Post-Closure periods to Goose Lake that will be different than the Operations period; this update will also include commitments made during the technical review phase.

Part 2: The predicted concentrations of parameters of potential concern (POPCs), pH, and hardness in Goose Lake as a result of effluent discharges during Operations are provided in Attachment FS-C: POPCs Goose Lake.

Reference:

NWB. Nunavut Water Board. 2021. Pre-Hearing Conference Decision Report Regarding an Application for Amendment to the Type "A" Water Licence no. 2AM-BRP1831 to Back River Distribution List. April 2021. 37 pg.

Attachment: FS-C: POPC Goose Lake

KIA-TC-08: POPCs for Discharge Location

Detailed Review Comment

In Section 6.1.1 Sabina states, "Approximately 50 Goose Lake Model scenarios were performed, which are described below:

- Discharge location: two locations in Goose Lake were evaluated for the effluent discharge (location A in the neck of Goose Lake, and location B in the main body of the lake; Figure 1).
- Discharge rate: two effluent discharge rates were evaluated including 1,900 and 2,500 m^3/d.
- Discharge chemistry: several effluent concentrations for POPC were evaluated.
- Discharge period: two discharge periods during the open water season were evaluated, including 1 July to mid-October and 1 July 1 to 30 September."

In Section 6.2, Sabina states, "Effluent quality criteria (Table 13) were calculated for the discharge location in the main body of the lake (Location B; Figure 1), a discharge rate of 1,900 m^3/d, and an annual discharge period from 1 July to 30 September."

Sabina modeled two discharge locations in Goose Lake but did not provide any results from the modeling of discharge from Location A in the neck of the lake. Sabina needs to clarify if discharge to Location A is still under consideration and if so, provide predicted concentrations at the edge of the mixing zone (100m from the point of discharge) to evaluate potential POPCs, and at the outlet of the lake from operation until post closure. EQCs should also be calculated for Discharge Location A.

Recommendation/Request:

We recommend Sabina provide model results for the Goose Neck discharge scenario (Location A), and,

1. Run that model until steady state for all parameters is achieved.

2. Provide actual values of predicted concentrations of POPCs, pH and hardness (as a toxicity modifying factor) to determine if concentrations of POPCs exceed their respective CCME and SSWQOs over time.

3. Calculate EQCs for this discharge location as necessary.

Sabina Response:

Parts 1 and 2: Please see Sabina's response to KIA-TC-7.

Part 3: Please see Sabina's response to KIA-TC-4.

Reference: n/a.

KIA-TC-09: Discrepancies between hydrodynamic models

Detailed Review Comment

Sabina indicates the EQC model presented on May 27, 2021 is consistent with the hydrodynamic model presented in February 2021 stating "Model setup, assumptions, and inputs including bathymetric and meteorological data are consistent with Golder (2021). Modelled constituents as presented in Table 3 are also consistent with Golder (2021)." Model results presented in the February 2021 hydrodynamic model for PN03, the outlet / tail of Goose Lake suggested several parameters will exceed their respective CCME WQOs and SSWQOs, including nitrate, nitrite, arsenic, aluminum, copper and iron. Concentrations of these parameters appear consistently lower in model results presented at the Goose Lake Tail in the May 2021 model.

It is unclear whether the shift to Discharge Location B is entirely responsible for these changes in predicted water chemistry at the outlet of Goose Lake or whether other factors not outlined in the EQC memorandum may be contributing to the difference. The implications to model inputs or the shift from a discharge to Goose Neck via the Llama Tailings Facility to a piped discharge to Location B from the Primary Pond are also unclear.

Recommendation/Request:

Please provide a discussion of the differences in model inputs used for this EQC model and the February 2021 hydrodynamic model including a focused discussion on the differences in predicted water quality at the outlet of Goose Lake. Please describe all inputs and assumptions used for the current hydrodynamic model for review.

Sabina Response:

Sabina confirms Results presented in February 2021 report are for Closure and Post-closure periods. Results presented in the effluent quality criteria (EQC) Report (May 2021) are limited to Operations and specifically for the purpose of proposing EQC. For description of scope of hydrodynamic modelling completed in the EQC Report, please see Sabina's response to KIA-TC-4.

In summary, the inflow rates/chemistries are different in the two models (i.e., February 2021 and May 2021). Concentrations of some water quality constituents are predicted to exceed CCME WQOs at the outlet in February 2021 model/report as a result of inflow rates/chemistry during the Closure Post-Closure periods. In the EQC Report (May 2021), water quality constituent concentrations at the outlet (and in Goose lake) are predicted to remain below their respective CCME WQOs during Operations; this aligns with the model/report purpose of proposing EQC for discharge during the Operations to verify water quality constituent concentrations that screen into requiring EQC remain below CCME WQOs in Goose Lake. As a result, discharge rate, chemistry, and location were adjusted in the EQC Report (May 2021) to meet this objective.

Reference: n/a

1.2 RESPONSE TO CROWN-INDIGENOUS RELATIONS AND NORTHERN AFFAIRS CANADA

CIRNA-WLA-FS-1: Scope of Amendment

Detailed Review Comment

CIRNAC is of the opinion the scope of licence amendments described in Pre-hearing Conference Decision Report list of issues match those in the application.

These are:

- Goose Site
    - Airstrip Extension
    - Umwelt Underground Extension
    - Total Water Use Increase
    - Waste and Water Management Infrastructure
- Marine Laydown Area
    - Addition of Fuel Transfer Area
    - Airstrip Extension
    - Shoreline Pad Extension
- Winter Ice Road
    - Subbase Upgrade
    - Service/Emergency Camps
    - Total Water Use Increase

Recommendation/Request:

CIRNAC did not submit any comment pertaining directly to the scope of licence

Sabina Response:

Sabina appreciates the comment from CIRNAC.

Reference: n/a

CIRNA-WLA-FS-2: Water Management

Detailed Review Comment

Under this application, Sabina is requesting authorization for increased water use in three areas:

- Goose Lake: increase by 218,700 m^3/year to 608,700 m^3/year;
- Big Lake: increase by 195,750 m^3/year to 273,750 m^3/year; and
- Winter ice road: increase by 1,350 m^3/km/year to 2,025 m^3/km/year.

Sabina is also proposing some changes to timing of construction and operation of water and wastewater management infrastructure on site. CIRNAC submitted seven comments regarding water management, as summarised in Table 1. They are resolved.

Table 1 Status of comments pertaining to water management

Comment #	Issue	Status
IR1	Groundwater inflow to Llama Pit	Resolved
IR2	Methodology for extrapolated water quality and quantity predictions	Resolved
IR4	Treated sewage attenuation	Resolved
IR10	Water withdrawal errors	Resolved
IR12, TC1	Saline water pond permafrost and balance	Resolved
IR16	Goose property waste and water management	Resolved

Groundwater inflow to Llama Pit (IR1): CIRNAC requested a summary of parameters and methodology to estimate the flooding of Llama Pit including groundwater inflow. Sabina directed us to the 2020 Water and Load Balance Model and explained the assumptions used to calculate flooding of the pit.

Methodology for extrapolated water quality and quantity predictions (IR2): The amendment application includes a 250 m extension of the Umwelt Underground. CIRNAC requested further details on the hydraulic and water quality parameters used for the extension zone in the groundwater model. Sabina explained they used a scaling approach and provided details.

Treated sewage attenuation (IR4): The Water Management Plan proposes the use of land discharge for treated sewage without providing details on attenuation prior to entering a watercourse. Sabina responded that the proposed land discharge was assessed in 2018, concentration in the effluent have not changed since then and the adjusted discharge location is accounted for in the updated Water and Load Balance Model.

Water withdrawal errors (IR10): CIRNAC identified some inconsistencies in the additional withdrawal amounts requested between the table and text in Section 2.3.3 of the Modification Package. Sabina clarified the differences were because one quantity referred to the total amount requested and the other was for the additional amount requested.

Saline Water Pond permafrost and balance (IR12, TC1): Umwelt Lake will be used to store saline groundwater and the mine plan involves construction of a dam to increase capacity and form the Saline Water Pond. CIRNAC requested more information on the talik below the pond and yearly volumes in the pond. Sabina directed CIRNAC to a 2017 memo for information on the talik below Umwelt Lake, provided clarifications on the annual water volumes and underlined their commitment to provide an annual comparison of measured groundwater inflow rates to model predictions in the Annual Report.

Goose Property waste and water management (IR16): CIRNAC requested rationale for the nearly two-fold increase in water requested from Goose Property, and information on how the proportionate increase in wastewater was integrated into the Water Management Plan. Sabina responded the additional freshwater need was identified through detailed engineering during the Feasibility Study and that wastewater volumes should only increase marginally and would be managed to meet licence requirements.

Recommendation/Request:

CIRNAC submitted seven comments regarding water management, as summarized in Table 1. They are resolved.

Sabina Response:

Sabina appreciates the comment from CIRNAC.

Reference: n/a

CIRNA-WLA-FS-3: Water Quality

Detailed Review Comment

Sabina provided an updated Water and Load Balance Model that estimated water quantities and quality on site for the duration of the mine operations. CIRNAC submitted five comments regarding water quality, as summarised in Table 2. They were principally requests for clarification and have all been resolved.

Table 2 Status of comments pertaining to water quality

Comment #	Issue	Status
IR8, IR9	Water and Load Balance Model update and incorporation of climate change	Resolved
IR13	Water quality in Saline Water Pond	Resolved
IR14	Lake mixing model	Resolved
TC3	Arsenic concentration in tailings beach sediments	Resolved

Water and Load Balance Model update and incorporation of climate change (IR8,IR9): CIRNAC requested details on what was updated in the 2017 Water and Load Balance Model to create the 2020 model, and how climate change impacts will be captured in sizing of containment infrastructure. Sabina provided a table that clearly identified the changes between the 2017 and 2020 versions of the model and confirmed that climate change predictions had been incorporated when designing berms, culverts and ponds.

Water quality in Saline Water Pond (IR13): Extreme maximum values for many water quality constituents in the Saline Water Pond were presented in Appendix D of the Water and Load Balance and CIRNAC requested a time series model projections to confirm if the values were spurious. Sabina provided time series model projections for ammonia, chloride, sulphate, arsenic and copper for the duration of use of the Saline Water Pond.

Lake mixing model (IR14): Since the salinity of water discharged from the Saline Water Pond to the pit lake has an incidence on development of meromitic conditions in the pit lake, CIRNAC requested discussion on how the salinity and water quantity in the Saline Water Pond might vary during operations and an unexpected work stoppage. Sabina's discussion included graphs of salinity of the different water sources over the duration of the project.

Arsenic concentration in tailings beach sediments (TC3): CIRNAC identified a discrepancy in the concentration of arsenic in the tailings beach in the Water and Load Balance Model and Sabina confirmed the correct concentration for this geochemical source term is 0.081 mg/L, which was used in the model.

Recommendation/Request:

CIRNAC submitted five comments regarding water quality, as summarised in Table 2. They were principally requests for clarification and have all been resolved.

Sabina Response:

Sabina appreciates the comment from CIRNAC.

Reference: n/a

CIRNA-WLA-FS-4: Modelling, Management Plans Manuals and Reports

Detailed Review Comment

For the 2020 amendment five management plans were updated including: Water Management Plan, Interim Closure and Reclamation Plan, Tailings Management Plan, Waste Rock Management Plan and Borrow Pits and Quarry Management Plan. The Water Management Plan includes the Saline Water Management Plan and Water and Load Balance Report as appendices. The hydrodynamic model for Goose Lake was also reviewed, and results from the latest version are integrated in the Effluent Quality Criteria Report for Effluent Discharged from Tailings Facilities, Tailings Storage Facilities, or Reservoirs — Version 1.

CIRNAC submitted 12 comments regarding modelling, management plans, manuals and reports, as summarised in Table 3. Most of the comments on the plans were requests for clarifications, and those requiring follow-up have been flagged to ensure commitments made by Sabina are incorporated into subsequent versions of management plans. CIRNAC has one unresolved comment on the hydrodynamic model for Goose Lake and our concerns relate to the long term water quality in the lake.

Table 3 Status of comments pertaining to modelling, management plans, manuals and reports

Comment #	Issue	Status
IR3	Unanticipated groundwater quantities	Resolved
IR11, TC2	Hydrodynamic model	Unresolved
IR15, IR17	Increase in tailings and waste rock	Resolved
IR18	Mass balance assessment	Resolved
TC4	Criteria for segregating rock	Resolved, follow-up
TC5	Use of ponds as tailings facilities	Resolved
TC6	Temporary PAG stockpiles	Resolved, follow-up
TC7	Quarry site development plans	Resolved, follow-up
TC8	Additional infrastructure in Tailings Management Plan	Resolved, follow-up
TC9	Saline Water Management Plan title	Resolved, follow-up

Unanticipated groundwater quantities (IR3): CIRNAC requested Sabina's standard operating procedures (SOP) for when unanticipated groundwater volumes are encountered during mining. Though Sabina did not provide an SOP, they directed us to the Saline Water Management Plan which includes contingency measures for such encounters and committed to incorporating locations of historic drillholes in a future SOP.

Hydrodynamic model (IR11, TC2): The hydrodynamic model of Goose Lake predicts water quantity and quality in the lake and can be used as a tool to assess the impacts of different water management strategies. Sabina provided a hydrodynamic model on February 12, 2021, which had several deficiencies and the concerning conclusion that the concentration of several parameters (nitrate, nitrite, aluminum, arsenic, chromium, copper and iron) were expected to be above chronic water quality benchmarks for the protection of aquatic life at the outlet of Goose Lake, including during closure and post closure.

Discussion at the technical meeting led to commitments from Sabina to update the model twice:

- once prior to the public hearing to explore the effect of changes to water management on site including discharging during operations instead of waiting for closure to discharge; and
- a second time 90 days following licence approval to incorporate further site data into the model inputs and allow for more time for optimization.

Results from the first update to the model were used to calculate effluent quality criteria in the May 27, 2021 report Effluent Quality Criteria Report for Effluent Discharged from Tailings Facilities, Tailings Storage Facilities, or Reservoirs - Version 1. It is difficult to compare the results with the previous model because the modelling period is shorter, time series data are not presented for the same point, and benchmarks have changed for some of the parameters.

CIRNAC is still concerned with long term water quality based on the data presented, even though modelling was restricted to the 12 year operational period. Many parameters appear to increase in maximum concentration over the 12 years of operation, particularly in the final 3 years. For example, total lead stays below the 0.001 mg/L line until the final three years of operations, and remains below the applicable guideline because the guideline increases with hardness. Similar dynamics are evident in plots of nickel, cadmium, and aluminum. Other parameters increase towards a constant guideline, including arsenic, copper and iron.

During the May 5, 2021 teleconference regarding updates to the model, Sabina's rationale for not modelling the closure and post-closure periods was based on the anticipated expiration of the current water licence prior to closure. CIRNAC is of the opinion that restricting the model to operations defeats one of the purposes of modelling, and argues that the February 12, 2021 model identified problems during closure and post closure prior to them occurring, which will lead to changes in operations to avoid the problem. Likewise, CIRNAC would like to see projected water quality in Goose Lake during closure and post-closure to have confidence that the currently proposed site water management strategy will protect water quality in Goose Lake during operations, closure and post-closure.

CIRNAC recommends the next update to the hydrodynamic model, due 90 days after potential licence approval incorporate more detailed inputs, including field data to be collected this summer, and the forecast period cover operations, closure and post closure. Furthermore, CIRNAC recommends the Water Management Plan be updated to integrate changes to water management on site that are being proposed based on hydrodynamic model findings.

Increase in tailings and waste rock (IR15, IR17): The proposed amendment would lead to a 27.6 Mt increase in waste rock and 7.4 Mt increase in tailings, which were not reflected in the Tailings Management Plan and Waste Rock Management Plan. These have since been updated by Sabina.

Mass balance assessment (IR18): Terms used in the Water and Load Balance Report created confusion between the tailings production volume and settled tailings volume, but Sabina has clarified that 2500 m^3/day in Section 3.2.7 refers to total settled tailings volume and confirmed the correct quantity was used in the model.

Criteria for segregating rock (TC4): CIRNAC identified an inconsistency in how potentially acid generating (PAG) rock was defined in the Mine Waste Rock Management Plan and the 2020 Borrow Pit and Quarry Management Plan. Sabina clarified that PAG rock is defined as having a neutralization potential ratio (NPR) <3 and total sulphur (S) >0.15%, and an addendum will be added to the Mine Waste Rock Management Plan at the next opportunity.

Use of containment ponds as tailings facilities (TC5): The updated Water Management Plan allows for the possibility of using all containment ponds as tailings storage facilities, but Sabina has confirmed this would be restricted to ponds and facilities appropriate for the storage of tailings.

Temporary PAG stockpiles (TC6): The Borrow Pit and Quarry Management Plan allows for the temporary stockpiling of PAG rock, about which CIRNAC requested further information. Sabina has clarified that temporary PAG stockpiles will be within quarry footprints, runoff from the quarries will be monitored, and piles will be in place a shorter period of time than the time for onset of acidic conditions from the rock.

Quarry site development plans (TC7): Sabina still intends to develop quarry development plans specific to each rock quarry, which was unclear but has been clarified.

Additional infrastructure in Tailings Management Plan (TC8): To help track project components still included in the water licence but not part of the current mine plan, CIRNAC recommended the Tailings Management Plan include a section for "other approved infrastructure", as is found in other plans. Sabina agreed to add this as an addendum to the plan at the next opportunity.

Saline Water Management Plan title (TC9): An inconsistency was identified in the title of the Saline Water Management Plan and will be corrected at the next opportunity.

Recommendation/Request:

CIRNAC submitted 12 comments regarding modelling, management plans, manuals and reports, as summarised in Table 3. Most of the comments on the plans were requests for clarifications, and those requiring follow-up have been flagged to ensure commitments made by Sabina are incorporated into subsequent versions of management plans. CIRNAC has one unresolved comment on the hydrodynamic model for Goose Lake and our concerns relate to the long term water quality in the lake.

Sabina Response:

In regards to Hydrodynamic model (IR 11, TC 2), the model simulation period is limited to the timeframe agreed on in the technical meetings (NWB PHC Decision report (NWB, 2021) Appendix D, List of Commitments NO. 3 and 4) *"Sabina to provide additional hydrodynamic model results for years 1 through 10, to assess water quality in Goose Lake including at discharge and other reference stations (e.g., at approx. 100 m, 200m from each inflow into Goose Lake*). Please note that the hydrodynamic model presented in this study includes Year 1 to 13 rather than ending at Year 10. The modelled period covers the operational period for which EQC are proposed.

Extending the simulations period beyond operations to include closure and post-closure will be provided in the updated hydrodynamic model, which will be completed 90 days following approval of the licence. This update will incorporate inflow rates and chemistry for the closure and post-closure period to Goose Lake that will be different than the operations as well the commitments made during the technical review phase.

Reference: n/a

CIRNA-WLA-FS-5: For-Construction Drawings and Reports

Detailed Review Comment

Drawings provided with this 2020 amendment are for the shoreline pad extension at the marine laydown area on Bathurst Inlet. As well, maps highlighting areas where winter ice road subbase upgrade and realignment are planned were provided. CIRNAC submitted two comments regarding for-construction drawings and reports, as summarised in Table 4. They have been resolved.

Table 4 Status of comments pertaining to for-construction drawings and reports

Comment #	Issue	Status
IR6, IR7	Design criteria for event ponds, diversion berms and culverts	Resolved

Design criteria for event ponds, diversion berms and culverts (IR6, IR7): CIRNAC requested justification on the use of a 24-hour event for containment pond design criteria, further information on design conveyance capacities for diversion berms and culverts, and watershed areas for five culverts. Sabina referred to information presented in 2018, stating this amendment did not involve changing design criteria, which still follow best practice.

Recommendation/Request:

CIRNAC submitted two comments regarding for-construction drawings and reports, as summarised in Table 4. They have been resolved.

Sabina Response:

Sabina appreciates the comment from CIRNAC.

Reference: n/a

CIRNA-WLA-FS-6: Monitoring Program

Detailed Review Comment

Most of the discussions on the monitoring program are regarding proposed changes to water management on site and criteria for effluent discharge to Goose Lake. CIRNAC submitted a single comment regarding the monitoring program, as summarised in Table 5. It has been resolved.

Table 5 Status of comment pertaining to wastewater management and treatment

Comment #	Issue	Status
IR5	Active layer groundwater monitoring	Resolved

CIRNAC supports Environment and Climate Change Canada's efforts to ensure that any effluent discharge criteria are protective of the environment and maintain Goose Lake's aquatic health in both the short and long term.

Active layer groundwater monitoring (IR5): CIRNAC requested information on how shallow groundwater would be monitored near mine infrastructure. Sabina replied that any potentially impacted shallow groundwater would be kept within the containment systems, since diversion berms and dams are keyed into permafrost, and therefore monitoring specific to active layer groundwater is not necessary. Moreover, they underlined how the seep surveys and dam inspections will flag any potential shallow groundwater concerns.

Recommendation/Request:

CIRNAC submitted a single comment regarding the monitoring program, as summarised in Table 5. It has been resolved.

Sabina Response:

Sabina appreciates the comment from CIRNAC.

Reference: n/a

CIRNA-WLA-FS-7: Annual Reporting Requirements under Schedule B

Detailed Review Comment

CIRNAC did not submit any comment regarding annual reporting requirements under Schedule B. However, during discussions on other comments some additions to annual reporting requirements have been identified, including:

1. Groundwater: in response to TC1, Sabina has committed to including "an annual comparison of measured groundwater inflow rates to model predictions in the NWB Annual Report, as described in Section 5.1 of the Saline Water Management Plan"

2. Progressive reclamation: CIRNAC is in ongoing discussions with Sabina and the Kitikmeot Inuit Association regarding how best to evaluate progressive reclamation and how that could be captured in the annual reporting requirements. We hope to make a joint submission on this topic.

Recommendation/Request: n/a

Sabina Response:

Sabina reconfirms the commitment to provide an annual comparison of measured groundwater inflow rates to model predictions in the Annual Report and include a commitment within the Draft Water Licence Framework (DWLF).

Sabina confirms ongoing discussions with CIRNAC and the KIA regarding how best to evaluate progressive reclamation and incorporate into annual reporting requirements. In addition, it is also Sabina's intent to hopefully provide a joint submission on this topic in advance of the Public Hearing.

Reference: n/a

CIRNA-WLA-FS-8: Closure and Reclamation Planning

Detailed Review Comment

Sabina shared an Interim Closure and Reclamation Plan with Kitikmeot Inuit Association and CIRNAC in November 2020, accompanied by an updated closure cost re-evaluation. CIRNAC has submitted a single comment regarding closure and reclamation planning to the Board, as summarised in Table 6. This issue is unresolved and CIRNAC is continuing discussions on the topic with the objective of participating in a joint submission to the Board prior to the public hearing scheduled in mid-July 2021.

Table 6 Status of comment pertaining to closure and reclamation planning

Comment #	Issue	Status
IR19	Reclamation plan and cost estimate	Unresolved

Reclamation plan and cost estimate (IR19): Three party discussions have continued with Sabina November 2020 have allowed us to clarify many points, bringing our respective cost estimates closer together. We have yet to agree on a total amount, and have yet to discuss the breakdown of the estimate between land and water owners and between stages/phases. CIRNAC's understanding is that Sabina will be submitting an Interim Closure and Reclamation Plan to the Board that incorporates some of our recommendations. CIRNAC's current reclamation cost estimate is shared in Annex B, though we will be making a further submission that may modify the total amount, and will include split between the holders of security and stages.

The mine plan incorporates progressive reclamation, which is an activity CIRNAC wishes to encourage on all sites. As such, our estimate assumes progressive reclamation will occur as per the mine plan, resulting in a smaller cost estimate than the total of each project component costed individually. CIRNAC and Sabina are discussing mechanisms that would help provide assurance to CIRNAC that progressive reclamation is proceeding as planned. These will likely be presented to the Board in the form of suggested items for the annual report, specifically for Schedule B of an amended water licence.

Recommendation/Request: n/a

Sabina Response:

Sabina confirms multiple three-party discussions with KIA and CIRNAC have been undertaken since November 2020 and Sabina anticipates that agreement on the total closure cost will be achieved in the coming days. Sabina provided an updated total closure cost estimate of $48.2M dated June 21, 2021 to both parties, and CIRNAC has verbally accepted the estimate provided. KIA is currently reviewing this proposal and Sabina is hopeful that a positive response will be received early next week. It is Sabina's intent to provide a joint submission on this topic in advance of the hearing, or independently if necessary, no later than as an exhibit at the hearing.

Reference: n/a

CIRNA-WLA-FS-9: Discussion on Amended Water Licence Framework (Annex B)

Detailed Review Comment

CIRNAC has reviewed the Draft Water Licence Framework "Addendum" To Support Water Licence Amendment submitted by Sabina on March 16, 2021. Our review has been limited to those terms and conditions pertaining to the amendment. The lack of comments on other proposed changes does not constitute agreement or disagreement on CIRNAC's behalf. We note many proposed changes do not seem to have been discussed during this amendment process.

Detailed comments are included as Annex B.

Recommendation/Request:

Sabina Response:

Sabina has updated the Draft Water Licence Framework (DWLF Ver2 dated 25 June 2021) having taken into account Information Request (IR) and Technical Comment (TC), commitments and Final Submissions from ECCC, KIA, and CIRNAC. Refer to Attachment FS-A: Updated DWLF Ver2.

Sabina notes some minor changes recommended within the DWLF are not significant or material but rather give the NWB and Sabina the ability to interpret some clauses more broadly to minimize need for lengthy amendment processes as Sabina progresses through construction and eventual operation of the mine site.

Part	Item	Page	CIRNAC Comment	Sabina Response
A	1	1-3	Additions to scope of licence. The additions on page 3, as well as the airstrip at the marine laydown area on page 2, match what was discussed during the amendment review. CIRNAC does not recall discussing changes to include reservoirs or de-watering of additional structures and recommends leaving these additions out.	Sabina proposed adding some broad flexibility to operations by including "reservoirs" and "de-watering of additional structures". It's acknowledged that should Sabina submit a modification for additional reservoirs or de-water, it would be subject to T&C under part G of the Licence. Board approval, consistency with existing Project Certificate (No. 007) and the Board's general practice of consultation with parties on any modification received. This proposal is provided to simplify, reduce or avoid the effort of potentially lengthy amendment processes for non-significant modifications, should they arise. (e.g., dewatering of non-fish bearing natural depression in the mine site area prior to construction).

Part	Item	Page	CIRNAC Comment	Sabina Response
E	2	9-10	Removal of condition to provide revised Water Management Plan within 60 days of Minister approval to replace it with a modified repetition of condition 1. During the technical meeting, as noted in the list of commitments found in the Pre-hearing Conference Decision Report, Sabina committed to providing updated management plans, including the water management plan 90 days prior to initiation of proposed activity or within 2021 Annual Report. CIRNAC recommends the commitment be captured in an amended licence	Sabina has re-instated T&C Part E, Item 2 to reflect standard wording and nomenclature used by the NWB in Type A water licenses. Sabina notes that the standard wording applied by the NWB captures the requirement for the Licence "*to take into account commitments made with respect to the submissions received during the technical review of the Application, as well as final submission and issues raised during the Public Hearing process.*"
E	3	10	Modification of maximum water use quantities from Goose and Big Lakes. The modifications match the amendment application. CIRNAC agrees with the proposed change	No further comment
E	5	10	Modification of maximum water use quantities for the winter ice road. The modifications match the amendment application. CIRNAC agrees with the proposed change.	No further comment
E	15	11	Replacement of condition to submit an updated Water and Load Balance Model, with condition to submit updated hydrodynamic model. CIRNAC prefers the wording of commitment #6 in the Pre-Hearing Conference Report list of commitments, then Sabina's proposal in this draft water licence	Sabina has applied consistent wording as applied by the NWB in their Type A water licence for consistency. Sabina notes that the standard wording applied by the NWB captures the requirement for the Licence "*to take into account commitments made with respect to the submissions received during the technical review of the Application, as well as final submission and issues raised during the Public Hearing process, where applicable.*"
Sch. B	New		CIRNAC recommends integrating Sabina's commitment for an annual comparison of measured groundwater inflow rates to model predictions.	Sabina confirms this commitment refer to new T&C No. 18.1 in Schedule B.

Reference: n/a

Attachment: FS-A: Updated DWLF Ver2 (June 25, 2021)

1.3 RESPONSE TO ENVIRONMENT AND CLIMATE CHANGE CANADA

ECCC-WLA-FS-01: ECCC-WLA-TC-02: Tailings Storage Facility

Reference: Responses to WL Amendment IRs-IMLE, Attachment IR-D (5.2.3 Seepage Analysis)
Responses to WL Amendment TCs-IMLE

Previous ECCC Comment/Recommendation (January 29, 2021)

ECCC noted that the 2-3 m bedrock fracture zone found during the 2015 drill program is of potential concern, depending on how fractured and altered the bedrock fracture zone is. From the description provided by the Proponent (Responses to WL Amendment IRs, Attachment IR-D), it appears that the bedrock fracture zone may be highly fractured and could be a major conduit pathway for water. The mitigation of bulk fill will not prevent the flow of water through the bedrock fracture zone because the fracture zone connects to a recharge source and may be permeable enough to allow flows. It is also not clear whether the Proponent intends to seal off the fracture zone completely using grout. Bulk fill alone may not be enough to prevent flow through the zone.

ECCC acknowledged the Proponent intends to complete "Packer testing… in select drillholes to evaluate bedrock hydraulic conductivity." However, it is unclear whether bedrock hydraulic conductivity test will provide a determination of the hydraulic conductivity of the 2-3 m fracture zone in order to assess the rate of flow through the fracture zone.

ECCC requested the Proponent:

- Provide clarification on whether the packer testing will provide a determination of the hydraulic conductivity of the 2-3 m fracture zone.
- Provide additional information on how the bulk fill will prevent flow through the 2-3m fracture zone.

Proponent Response

In their response, the Proponent acknowledged ECCC's request and confirms that Sabina is committed to complete an infill geotechnical characterization program at the Tailings Storage Facility (TSF) as outlined in Part D, Item 4 of the Type A Water Licence (2AM-BRP1831). The information from the field characterization will ensure that the design meets the required intent of managing seepage through both the foundation and the body of the TSF Dam.

Furthermore, in technical comment response, WT-INAC-TRC-17, the Proponent noted that they will conduct percolation testing immediately prior to Tailings Storage Facility (TSF) Dam construction prior to excavating the key trench for the TSF Containment Dam. This is a series of shallow drillholes (approximately 10 m deep) that will be completed using a blast hole drill at close spacing (about 25 m) along both the upstream and downstream extent of the key trench. Then a falling head hydraulic conductivity test will be completed on each drill hole, using heated water if conditions require it.

Recommendation/Request: ECCC is satisfied with this response, and awaits the results of the further testing by the Proponent to be completed prior to the construction of the tailings storage facility.

Sabina Response:

Sabina appreciates the confirmation from ECCC.

ECCC-WLA-FS-02: Proposed Effluent Quality Criteria – Nitrate

Reference: Aquatic Baseline Synthesis Report

CCME Nitrate Ion Factsheet

CCME Water Quality Guidelines for Protection of Aquatic Life

Effluent Quality Criteria Report for Effluent Discharged from Tailings Facilities, Tailings Storage Facilities, or Reservoirs

Comment Proponent's Conclusion

The Proponent has provided proposed effluent quality criteria (EQC) for use during mine operations. This includes a proposed EQC for nitrate of 60 mg/L (maximum authorized monthly mean) with a maximum authorized concentration in a grab sample of 120 mg/L. The rationale provided for development of this limit is that modelling suggests that if predicted maximum nitrate concentrations in effluent were discharged from the Primary Pond, predicted maximum concentrations of nitrate in Goose Lake would be greater than the Canadian Council of Ministers of the Environment (CCME) chronic water quality guideline for nitrate. It is stated that with a discharge concentration of 60 mg/L, nitrate concentrations in Goose Lake would remain below water quality guidelines for nitrate.

ECCC's Conclusion

Although discharge at these nitrate concentrations would result in nitrate concentrations in Goose Lake remaining below CCME water quality guidelines, this still represents a significant increase from the baseline nitrate concentrations. The baseline data for Goose Lake suggests that nitrate during open water conditions is often below detection limits, with a maximum measured concentration of 0.024 mg-N/L. During the under ice period, concentrations of nitrate range from 0.0076 mg-N/L to 0.094 mg-N/L. The water quality guidelines selected for analysis of EQC include the generic CCME water quality guideline for the protection of aquatic life when hardness concentrations are less than 26 mg/L as CaCO3, and the hardness-dependent Site-Specific Water Quality Objectives (SSWQO) developed for the Ekati Diamond Mine when concentrations are between 26.4 and 94 mg/L $CaCO_3$. The CCME and SSWQO guidelines selected for analysis results in a receiving environment guideline concentration ranging from 2.93-10 mg-N/L. While the receiving environment guidelines are intended to protect against direct toxicity to aquatic life, the guidelines do not consider indirect effects to aquatic life due to nutrient enrichment. With increasing concentrations of nitrate in the aquatic environment there is an increased risk of eutrophication, algal blooms, decrease in overall water quality, and alteration of the plankton and benthic invertebrate community composition. Given the baseline nutrient concentrations, increases in nitrate of this magnitude may result in chronic impacts to sensitive species within the immediate receiving environment as well as impacts to water quality due to nutrient enrichment.

While predictions indicate that Goose Lake will remain below CCME guidelines, given the potential change from baseline nitrate concentrations, and the uncertainty of other nutrient inputs, additional analysis should be completed on the potential nutrient enrichment impacts of discharges into Goose Lake. Predicted nitrogen inputs to Goose Lake should be reviewed in conjunction with the predicted phosphorus inputs to evaluate the potential for nutrient-related changes to water quality (i.e., eutrophication).

Recommendation/Request: ECCC recommends that:

- Predicted total phosphorus and nitrogen inputs be reviewed and the potential for eutrophication in Goose Lake evaluated in the context of increasing nitrogen and total phosphorus loadings.

Sabina Response:

Based on median concentrations of total nitrogen (TN), total phosphorus (TP), and chlorophyll *a* in different areas across the lake, Goose Lake was classified as oligotrophic in the Aquatic Baseline Synthesis Report (Golder 2019). Mean molar ratios of N to P based on 2017 and 2018 data are 120 and 111, respectively, indicating that Goose Lake is strongly phosphorus-limited. Therefore, the predicted increase in TN concentration in Goose Lake is unlikely to result in a proportional increase in primary productivity. However, it may result in some changes in phytoplankton community composition as a result of a potential shift in competitive abilities of different phytoplankton groups. Heterocyst-forming cyanobacteria are able to fix N, which confers a competitive advantage to this group under low N concentrations (Wetzel 2001), and which may not be the case under N enrichment.

Effluent quality criteria were calculated for TP to maintain concentrations in Goose Lake below 0.01 mg-P/L, and thereby to maintain oligotrophic trophic status. Therefore, with the additional P loading from the potential effluent discharges, primary productivity may increase in Goose Lake within the oligotrophic range; however, within the expected range of TP concentration in the lake (i.e., <0.01 mg/L), a large increase in productivity, or a decline in dissolved oxygen concentration associated with increased productivity, is not expected.

From a toxicity-perspective, predicted nitrate concentrations are either below the CCME generic water quality guideline that is conservatively derived to protect the most sensitive species and life-stages indefinitely, or below a site-specific water quality objective accounting for higher hardness levels derived for northern environments with the same protection goal. Comparisons of predicted concentrations in Goose Lake to these benchmarks in the EQC Report (May 2021) submitted by Sabina to satisfy Commitment No.2 from the TM/PHC, indicate that predicted nitrate concentrations in Goose Lake are not expected to result in chronic toxicity to sensitive species within the immediate receiving environment.

Reference:

Golder (Golder Associates Ltd.). 2019. Back River Project - Aquatic Baseline Synthesis Report, Appendix A to the Aquatic Effects Management Plan. Prepared for Sabina Gold & Silver Corp. July 2019. 1676 p.

Wetzel RG. 2001. Limnology, Lake and River Ecosystems, Third Edition. Academic Press, New York, NY. 1006 p.

ECCC-WLA-FS-03: Potential Treatment

Reference: Effluent Quality Criteria Report for Effluent Discharged from Tailings Facilities, Tailings Storage Facilities, or Reservoirs

Proponent's Conclusion

Table 17 provides a comparison of proposed EQC to predicted effluent concentrations in the Primary Pond and Llama Tailings Facility during operations. In the case of some parameters, the predicted maximum concentrations in either the Primary Pond or the Llama Tailings Facility are greater than the proposed EQC. The Proponent has acknowledged that the Project may require water treatment for chloride, nutrients, total aluminum, iron, and zinc.

ECCC's Conclusion

Although it is acknowledged that several parameters may require treatment in order to meet the EQC proposed by the Proponent, no information has been provided on the potential treatment options and the ability to achieve the proposed criteria.

Recommendation/Request:

ECCC recommends that the Proponent provide additional information on candidate treatment technologies which would achieve the proposed EQC for parameters listed in Table 17, and the timelines for implementing treatment.

Sabina Response:

Sabina anticipates that treatment will be required for the parameters that exceed the proposed effluent quality criteria (EQC). These constituents of potential concern (COPCs) are nitrate, nitrite, total ammonia, total aluminium, total arsenic, total copper, total iron, total selenium, total cyanide, and total phosphorus. A treatment system that targets the COPCs may consist of the following typical unit water treatment processes:

- lime precipitation for metal removal (e.g., aluminum, iron);
- organosulphide for trace metal removal (e.g., arsenic, copper);
- MBBR biological removal of nutrients (e.g., nitrate, nitrite, ammonia, cyanide); and
- iron co-precipitation (ICP) polishing step for phosphorus removal.

Physical/chemical processes, such as lime precipitation, trace metal removal, and ICP processes are widely used in the mining industry, including in cold climates. Biological treatment processes are also applied in northern climates; however, these processes can require heating of the water to operate efficiently. Sabina confirms that effluent treatment will be implemented in advance of discharge to meet all EQC.

Reference:

Effluent Quality Criteria Report for Effluent Discharged from Tailings Facilities, Tailings Storage Facilities, or Reservoirs

ECCC-WLA-FS-04: Monitoring, Action Levels, and Validation of Model Predictions

Reference: Effluent Quality Criteria Report for Effluent Discharged from Tailings Facilities, Tailings Storage Facilities, or Reservoirs

Proponent's Conclusion

The Proponent has provided EQC based on a combination of expected effluent quality, requirements under the Metal and Diamond Mining Effluent Regulations (MDMER), available technology, and maintenance of water quality in Goose Lake below water quality guidelines.

ECCC's Conclusion

For many parameters, the predicted concentrations in the effluent, as well as the predicted concentrations in the receiving environment are dependent on assumptions used in modelling. The modelling suggests that Goose Lake will be protected and concentrations will remain below aquatic life guidelines; however, this should be confirmed through ongoing monitoring. Ongoing analysis should include comparisons of measured data for effluent and water quality to model results to validate the assumptions made during modelling and identify if monitoring trends do not remain within predicted values. In addition, monitoring plans should include establishment of action levels within the receiving environment to detect changes within Goose Lake and serve as an early warning system such that mitigation may be applied in advance of any impacts to Goose Lake.

Recommendation/Request:

ECCC recommends

- The Proponent establish water quality action levels for Goose Lake to detect changes to receiving environment water quality, which would serve as an early warning system for detecting any changes occurring in Goose Lake.
- Upon commencing discharge into Goose Lake, the Proponent should complete model validation, including comparison of measured effluent and water quality data to model predictions such that the model may be adjusted accordingly. These comparisons and analyses, including any model updates, should be included in the annual report.

Sabina Response:

Part 1: As indicated in the current Aquatic Effects Management Plan (AEMP; 2017), Sabina has committed to establishing water quality action levels for Goose Lake within an Adaptive Management Response Framework for the Project. The goal of this response framework is to systematically respond to monitoring results such that the potential for adverse effects related to mine activities is identified, and that necessary follow-up or mitigation actions are undertaken. This will be accomplished by implementing appropriate measures at predefined Action Levels (e.g., Low, Moderate or Medium, and High), which would be triggered well before a significant adverse effect could occur. The current AEMP (2017) will be updated with Low Action Levels for Goose Lake that will serve as an early-warning indication of the potential for adverse effects on water quality.

Part 2: It is Sabina's intention to validate the hydrodynamic model as required by changes in operation or technology. The next update to the hydrodynamic model of Goose Lake will be completed in the third year following the commencement of the Operations Phase.

Reference:

Sabina Gold and Silver Corporation. 2017. Back River Project Aquatic Effects Management Plan. October 2017.

Effluent Quality Criteria Report for Effluent Discharged from Tailings Facilities, Tailings Storage Facilities, or Reservoirs

ECCC-WLA-FS-05: Aluminum Site Specific Water Quality Objective

Reference: Effluent Quality Criteria Report for Effluent Discharged from Tailings Facilities, Tailings Storage Facilities, or Reservoirs – Section 3.2 (Total Aluminum)

Proponent's Conclusion

The current aluminum chronic water quality guideline used for the Project is the CCME pH-dependent water quality guideline for protection of aquatic life. However, the Proponent has proposed using a modified version of the US EPA (2018) aluminum water quality criterion as a SSWQO in Goose Lake.

ECCC's Conclusion

The Proponent states that they have "modified" the US EPA guideline, to create a SSWQO. However, no information has been provided on how the US EPA guideline, which is based on site pH, total hardness, and dissolved organic carbon (DOC), has been modified to create this site-specific water quality objective.

Recommendation/Request:

ECCC recommends the Proponent provide additional information on how the US EPA aluminum water quality guideline has been modified for application to this site.

Sabina Response:

Although the bioavailability and toxicity of aluminum are mediated by a variety of factors, three water quality factors (i.e., pH, organic carbon, and hardness) have been identified as the most important modifiers of toxicity (Gensemer and Playle 1999; US EPA 2018). The existing Canadian Council of Ministers of the Environment (CCME) water quality guideline (WQG) for aluminum considers only pH as an exposure and toxicity modifying factor (ETMF); however, there is a growing body of evidence to support the consideration of other ETMFs. For example, the United States Environmental Protection Agency (US EPA; 2018) recently revised its freshwater chronic criterion for total aluminum to incorporate pH, hardness, and dissolved organic carbon (DOC) as quantitative ETMFs (US EPA 2018). DeForest et al. (2018) developed multiple linear regression models that incorporate pH, DOC, and hardness as input parameters to normalize acute and chronic aluminum toxicity data to a set of standardized water quality conditions.

The 'modified' derivation method used to develop a site-specific water quality objective (SSWQO) for Goose Lake was based on the quantitative relationships between toxicity modifying factors and aluminum toxicity as documented in DeForest et al. (2018), but with slight refinements to make the output fully compatible with standardized Canadian procedures for SSWQO development (CCME 2007). Specifically, the US EPA criteria are developed using normalized effect concentrations at which 20% effects are observed (IC/EC_{20}s,) which differs from the hierarchy of preferred endpoints recommended in the CCME (2007) guidance, specifically the preference for use of effect concentrations at which 10% effects are observed (IC/EC_{10}s) in a Type A derivation (i.e., where the IC/EC_{10} data are often considered reliable and, therefore, preferred estimates representing a no-effects threshold). Sabina highlights that the modelling tool created by DeForest et al. (2018) allowed an option for selection of IC/EC_{10} endpoints to normalize chronic toxicity data; this option was adopted to develop the aluminum SSWQO, incorporating recent scientific findings on ETMFs while retaining consistency with CCME (2007) derivation procedures (i.e., substitution of IC/EC_{10} endpoints where appropriate).

The DeForest et al. (2018) tool standardized IC/ECx data and generated species mean chronic values for 14 species: three species of fish, nine species of invertebrates, and two species of macrophyte/algae (i.e., aquatic plant-like organisms). All organisms in the DeForest et al. (2018) tool were retained as appropriate surrogates for the freshwater organisms (i.e., fish, invertebrates,

and plants) found in Goose Lake. For seven species (i.e., six invertebrates and one plant) in the Deforest et al. (2018) dataset, IC/EC_{10}s were below no observed effect concentration (NOEC) values measured in the same study. In these cases, the response size was considered too small to be reliable for use as a preferred endpoint representing a no-effects threshold. For these specific species, the next appropriate IC/ECx value was selected (e.g., IC/EC_{20}), according to the CCME (2007) protocol. These selected endpoints provide an appropriate balance between the considerations of effect size and statistical significance in the application of the CCME (2007) hierarchy for selection of a preferred statistical endpoint.

Species mean chronic values from the DeForest et al. (2018) tool were used to develop a species sensitivity distribution (SSD) for each pH, DOC, and hardness combination; the 5% hazard concentration (HC_5) for the lognormal distribution is provided as part of the DeForest et al. (2018) tool. The use of an SSD is consistent with the preferred method of deriving water quality guidelines in Canada (CCME 2007) and is applicable to deriving an SSWQO for aluminum at the Project site. The HC_5 was reviewed to evaluate whether the protection clause (per CCME 2007) should be invoked; that is, whether there is a toxicity value for a sensitive species of interest that falls below the HC_5. Therefore, the SSWQO was selected as the minimum of either the HC_5 or the normalized EC_{10} for Brook Trout (i.e., the most sensitive species on the SSD).

In summary, the derivation method was modified to be compatible with standard approaches to SSWQO development in Canada, while still being focused on the influence of the most important EMTFs on aluminum toxicity.

Reference:

CCME. 2007. A protocol for the derivation of water quality guidelines for the protection of aquatic life 2007. In: Canadian environmental quality guidelines, Canadian Council of Ministers of the Environment. Winnipeg MB. ceqg rcqe.ccme.ca/download/en/220/.

DeForest DK, Brix KV, Tear LM, Adams WJ. 2018. Multiple Linear Regression Models for predicting chronic aluminum toxicity to freshwater aquatic organisms and developing water quality guidelines. Environmental Toxicology and Chemistry. 37(1): 80-90.

Gensemer RW, Playle RC. 1999. The bioavailability and toxicity of aluminum in aquatic environments. Critical Reviews in Environmental Science and Technology. 29(4): 315-450.

United States Environmental Protection Agency (US EPA). 2018. Final aquatic life ambient water quality criteria for aluminum—2018. EPA-822-R-18-001. December 2018.

Attachment FS-A: DWLF Ver2 (June 25, 2021)

Sabina response to TM/PHC Commitment No.7

DRAFT WATER LICENCE FRAMEWORK "ADDENDUM" TO SUPPORT WATER LICENCE AMENDMENT

Proposed changes to Type A Water Licence 2AM-BRP1831 issued by the Nunavut Water Board on September 21, 2018, approved by the Minister of Crown-Indigenous Relations on November 6, 2018.

Qualification: As stated in the application and modification package (October 2020, Ver2), Sabina clarifies that mining areas and associated infrastructure already included in the Project Certificate (PC No. 007; NIRB File No. 12MN036) and the Type A Water Licence (2AM-BRP1831) will remain in the amended licence. Sabina confirms that the scope of activities in Part A, Item 1 of licence, 2AMBRP1831, remains unchanged, that Sabina is not requesting a reduction in Project scope, and that the new scope of activities associated with the 2020 Modification Package will be added to the licence as part of this amendment application.

Rev 1. dated 16 March 2021 changes denoted in red text.
Rev 2. dated 25 June 2021 changes denoted in blue text.

<table>
<tr><td colspan="3">PART A: SCOPE, DEFINITIONS AND ENFORCEMENT</td></tr>
<tr><td>1.</td><td>Scope</td><td></td></tr>
<tr><td></td><td>a. This Licence authorizes the Licensee to the use of Waters and deposit of Waste in support of a Mining Undertaking classified, as per Schedule 1 of the Regulations, at the Back River Project as outlined in the Type "A" Water Licence Application (Application) submitted to the Nunavut Water Board (NWB) on October 4, 2017, and as reviewed throughout the regulatory process.

The Licensee may conduct mining and associated activities at the Back River Project in the Kitikmeot Region of Nunavut at the following project extents:
<table>
<tr><th>Project Extents</th><th>Latitude</th><th>Longitude</th></tr>
<tr><td rowspan="4">Back River Project Areas</td><td>66° 42' N</td><td>107° 50' W</td></tr>
<tr><td>66° 42' N</td><td>106° 11' W</td></tr>
<tr><td>65° 29' N</td><td>106° 12' W</td></tr>
<tr><td>65° 29' N</td><td>107° 50' W</td></tr>
<tr><td>Goose Main Camp</td><td>65° 32' 32.36" N</td><td>106° 29' 6" W</td></tr>
<tr><td>Marine Laydown Area Camp Site</td><td>66° 38' 41.27" N</td><td>107° 41' 6" W</td></tr>
</table>
In general, the scope of the activities, works and Undertakings authorized in accordance with the terms and conditions of the Licence are as follows:
For the Goose Property:
• Withdrawal and use of water from Big Lake and Goose Lake for camp, mining, construction, and associated activities;
• Dewatering of Llama Lake and Umwelt Lake and other water bodies as approved by the Board;
• Quarrying of materials from specified locations;
• Operation of a camp;
• Construction, operation, maintenance of the following project components/ activities:
  • Open pit mines at Llama, Umwelt, Echo, and Goose Main;
  • Underground mines at Llama, Umwelt, Echo, and Goose Main;
  • Mill;
  • Administration, warehousing, and equipment maintenance;
  • Camp;</td><td>Updated</td></tr>
</table>

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- Pads;
- Quarry and borrow sites at specified locations;
- All-weather roads and watercourse crossings;
- Site specific Winter Ice Roads;
- Rascal Stream Connectivity (culverts and/or channel realignment);
- All-weather airstrip (including extension); and
- Ice airstrip.

- Construction, operation, maintenance of the following Water Use and Management components/activities:
  - Goose Property Water Supply Facilities;
  - Watercourse crossings including pipelines, channel and bank alterations, culverts, spurs, and erosion control;
  - Flood control, diversion, alteration of flow, or storage by means of dykes or dams or Reservoirs;
  - Runoff management for the Ore Stockpile, Waste Rock Storage Areas, laydown areas, bulk fuel storage, and other mine infrastructure;
  - Goose Property Water Treatment Facilities; and
  - Saline Water Storage.
- Construction, operation, maintenance of the following Waste Disposal and Management components/activities:
  - Goose Property Waste Management Facilities;
  - Sewage Treatment Plant;
  - Landfarms;
  - Landfills;
  - Waste Rock Storage Areas;
  - Tailings Storage Facility and Tailings Facilities; and
  - Effluent discharge.
- Construction, operation, maintenance of the following Materials Handling and Management components/activities:
  - Laydown areas;
  - Petroleum, oils, and lubricants (including bulk fuel storage);
  - Hazardous waste; and
  - Explosive storage/management.

For the Marine Laydown Area (MLA):

- Withdrawal and use of water from MLA Pond S1, Pond S2, Lake 3, and Lake 4 for camp, construction, and associated activities;
- Quarrying of materials from specified locations;
- Operation of a camp;
- Construction, operation, maintenance of the following project components/activities:
  - Administration, warehousing, and equipment maintenance;
  - Camp;
  - Pads;
  - Quarry and borrow sites at specified locations;
  - All-weather roads;
  - Site specific Winter Ice Roads; ~~and~~
  - All-weather airstrip; and
  - Ice airstrip.
- Construction, operation, maintenance of the following Water Use and Management components/activities:
  - MLA Water Supply Facilities;

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	• Watercourse crossings including pipelines, channel and bank alterations, culverts, spurs, and erosion control; • Flood control, diversion, alteration of flow, or storage by means of dykes or dams; and • Runoff management for the Ore Stockpile, Waste Rock Storage Areas, laydown areas, bulk fuel storage, and other mine infrastructure. • Construction, operation, maintenance of the following Waste Disposal and Management components/activities: • MLA Waste Management Facilities; • MLA Wastewater Treatment Facilities; • Landfarm; and • Effluent discharge. • Construction, operation, maintenance of the following Materials Handling and Management components/activities: • Floating barge terminal; • Laydown areas; • Petroleum, oils, and lubricants (including bulk fuel storage); • Hazardous waste; ~~and~~ • Shoreline Pad Extension; • Fuel Transfer Area; and • Explosive storage/management. **For the Interconnection Winter Ice Road:** • Withdrawal and use of water from source locations proximal to the Interconnection Winter Ice Road for Ice Road construction and maintenance; and • Construction, operation, and maintenance of the following infrastructure: • Winter Ice Road; • Winter Ice Road Service/Emergency Camps; • WIR subbase upgrades; and • Quarry and borrow sites at specified locations.	
	b. This Licence is issued subject to conditions contained herein with respect to the use of Waters and the deposit of Waste of any type in any Waters or in any place under any conditions where such Waste or any other Waste that results from the deposits of such Waste may enter any Waters. Whenever new Regulations are made or the existing Regulations are amended by the Governor in Council under the Act, or other statutes imposing more stringent conditions relating to the quantity, type or manner under which any such Waste may be so deposited, this Licence shall be deemed to be subject to such requirements.	No Change
	c. Compliance with the terms and conditions of this Licence does not absolve the Licensee from responsibility for compliance with all applicable legislation, guidelines and directives.	No Change
2.	Definitions	
	a. The Licensee shall refer to Schedule A for definitions of terms used in this Licence.	No Change
3.	Enforcement	
	a. Failure to comply with this Licence may be a violation of the *Act*, subjecting the Licensee to the enforcement measures and the penalties provided for in the *Act*. b. All inspection and enforcement services regarding this Licence will be provided by Inspectors appointed under the *Act*. c. For the purpose of enforcing this Licence and with respect to the use of Waters and deposit of Waste by the Licensee, Inspectors appointed under the *Act* hold all powers, privileges and protections that are conferred upon them by the *Act* or by other applicable laws.	No Change

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PART B: GENERAL CONDITIONS		
1.	The amount of Water use fees shall be determined and payment of those fees shall be made in accordance with section 12 of the *Regulations*.	No Change
2.	The Licensee shall file an Annual Report with the Board no later than March 31st in the year following the calendar year being reported. The Annual Report shall be developed in accordance with Schedule B.	No Change
3.	The Licensee shall retain and have a copy of this Licence available at the site of operations at all times.	No Change
4.	Any communication with respect to this Licence shall be made in writing to the attention of: Manager of Licensing, Nunavut Water Board P. O. Box 119 Gjoa Haven, NU X0B 1J0 Telephone: (867) 360-6338 Fax: (867) 360-6369 Email: licensing@nwb-oen.ca	No Change
5.	Any notice made to an Inspector shall be made in writing to the attention of: Water Resources Officer Nunavut District, Nunavut Region P.O. Box 100 Iqaluit, NU X0A 0H0 Telephone: (867) 975-4295 Fax: (867) 979-6445	No Change
6.	The Licensee shall submit one (1) electronic copy of all reports, studies, and plans to the Board unless otherwise requested by the Board. Unless otherwise directed by the Board, reports or studies submitted to the Board by the Licensee shall include an executive summary in English, Inuktitut, and Inuinnaqtun.	No Change
7.	This Licence is assignable as provided in Section 44 of the Act.	No Change
8.	The Licensee shall ensure that any document(s) or correspondence submitted by the Licensee to the Board is received and acknowledged by the Manager of Licensing.	No Change
9.	The Licensee shall submit to the Board, at least sixty (60) days prior to any of any changes in operating plans or conditions associated with this Project, written notification of such change.	No Change
10.	The Licensee shall post signs in the appropriate areas to inform the public of the location of the Water Supply Facilities and the Waste Disposal Facilities. All signs must be in English, Inuktitut, and Inuinnaqtun and shall be located and maintained to the satisfaction of an Inspector.	No Change
11.	The Licensee shall, for all Plans submitted under this Licence, include a proposed timetable for implementation. Plans submitted cannot be undertaken without subsequent written Board approval and direction. The Board may alter or modify a Plan if necessary to achieve the legislative objectives and will notify the Licensee in writing of acceptance, rejection or alteration of the Plan. With notice to the Board, the Licensee may rename or consolidate Plans listed in this Licence.	No Change
12.	Unless otherwise directed by the Board in writing, if a Plan is not acceptable to the Board, the Licensee shall provide a revised version to the Board for review within thirty (30) days of notification by the Board.	No Change
13.	The Licensee shall, for all Plans submitted under this Licence, implement the Plans as approved by the Board in writing. Any changes to the plans deemed significant shall be considered as an amendment to the plan(s) or as a modification and must be approved by the Board.	No Change
14.	The Board has approved the following Plans for implementation under the relevant sections in the Licence. a. *Aquatic Effects Management Plan* ~~(October 2017)~~;	Updated

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	b. *Borrow Pits and Quarry Management Plan* ~~(October 2017)~~; c. *Environmental Management and Protection Plan* ~~(October 2017)~~; d. *Fuel Management Plan* ~~(October 2017)~~; e. *Hazardous Materials Management Plan* ~~(October 2017)~~; f. *Incineration Management Plan* ~~(October 2017)~~; g. *Interim Closure and Reclamation Plan* ~~(including Interim Closure Cost Estimate) (October 2017)~~; h. *Landfarm Management Plan* ~~(October 2017)~~; i. *Landfill and Waste Management Plan* ~~(October 2017)~~; j. ~~*Mine*~~ *Waste Rock Management Plan* ~~(October 2017)~~; k. *Ore Storage Management Plan* ~~(October 2017)~~; l. *Risk Management and Emergency Response Plan* ~~(October 2017)~~; m. *Road Management Plan* ~~(October 2017)~~; n. *Spill Contingency Plan* ~~(October 2017)~~; o. *Tailings Management Plan* ~~(October 2017)~~; and p. *Water Management Plan* ~~(October 2017)~~.	
15.	The Board has accepted the following Plan for implementation under the relevant Part in the Licence. a. *Quality Assurance/Quality Control Plan* ~~(October 2017)~~.	Updated
16.	Every Plan to be carried out pursuant to the terms and conditions of this Licence shall become a part of this Licence, and any additional terms and conditions imposed upon approval of a Plan by the Board become part of this Licence. All terms and conditions of the Licence should be contemplated in the development of a Plan where appropriate.	No Change
17.	The Licensee shall review the Plans referred to in this Licence as required by changes in operation and/or technology and modify the Plans accordingly. Revisions to the Plans are to be submitted in the form of an Addendum to be included with the Annual Report required by Part B, Item 2, complete with a revisions list detailing where significant content changes are made.	No Change
18.	The expiry or cancellation of this Licence does not relieve the Licensee from any obligation imposed by the Licence, or any other regulatory requirement.	No Change
19.	The Schedules attached to this Licence provide details regarding the requirements associated with specific items in the main body of the Licence and are included in the Schedule to provide greater clarity and as an aid to interpretation for the Licensee. If the Board subsequently determines that an item in any of the Schedules requires revision in order to better reflect the intent and objectives of the Licence, the Board may at its discretion, and upon consulting and providing written notice to the Licensee and interested parties, revise the Schedule accordingly. Unless the Board directs otherwise, such revision may not necessarily be considered as an "Amendment" to the Licence.	No Change
20.	Unless otherwise stated, references in the Licence to any specific legislation, policy, guideline or other regulatory requirement are deemed to refer to the regulatory requirement as may be amended or as may be expressly replaced by successor legislation, policy, guidelines or other regulatory requirements after the Licence is approved by the Minister.	No Change

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PART C: CONDITIONS APPLYING TO SECURITY

1.	The Licensee shall furnish and maintain the specified additional reclamation security amounts with the Minister under the Licence in accordance with the schedule and specific stages of infrastructure construction (as defined in Schedule A: Scope, Definitions, and Enforcement) set out below:	No Change

Pending

Timing	Stage of Infrastructure Construction	Reclamation Security to Be Added to Security Held Under the Licence For Each Stage	Total Reclamation Security For Each Stage (Licence and KIA Instruments Combined)
Within 30 days of the cancellation of Water Licence No.: 2BC-BRP1819	**Pre-Existing Infrastructure**	$0	$1,485,666
Sixty (60) days prior to construction	**Initial Infrastructure**	$2,400,005	$3,576,939
Sixty (60) days prior to construction	**Umwelt Open Pit**	$3,969,014	$7,498,853
Sixty (60) days prior to construction	**Tailings Storage Facility**	$14,223,495	$16,813,080
Sixty (60) days prior to construction	**Llama Open Pit**	$3,060,990	$6,296,575
Sixty (60) days prior to construction	**Llama Underground**	$93,198	$549,425
Sixty (60) days prior to construction	**Umwelt Underground**	$1,786,555	$2,140,925
Sixty (60) days prior to construction	**Goose Main Open Pit**	$1,696,673	$2,216,886
Sixty (60) days prior to construction	**Goose Main Underground**	$720,096	$881,832
Sixty (60) days prior to construction	**Echo Open Pit and Underground**	$1,055,704	$1,729,171
TOTAL (ALL STAGES CONSTRUCTED)		**$29,005,730**	**$43,189,352**

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<table>
<tr><td>2.</td><td>The Licensee shall provide confirmation in writing, in a form acceptable to the Board, that the following specified additional reclamation security amounts have been furnished to the Kitikmeot Inuit Association in accordance with the schedule and specific stages of infrastructure construction (as defined in Schedule A: Scope, Definitions, and Enforcement) as follows:</td><td>No Change</td></tr>
<tr><td></td><td>
<table>
<tr><th>Timing</th><th>Stage of Infrastructure Construction</th><th>Reclamation Security to Be Confirmed as Added to Security Held By the KIA For Each Stage</th><th>Total Reclamation Security For Each Stage (Licence and KIA Instruments Combined)</th></tr>
<tr><td>Within 30 days of the cancellation of Water Licence No.: 2BC-BRP1819</td><td>Pre-Existing Infrastructure</td><td>$1,485,666</td><td>$1,485,666</td></tr>
<tr><td>Sixty (60) days prior to construction</td><td>Initial Infrastructure</td><td>$1,176,934</td><td>$3,576,939</td></tr>
<tr><td>Sixty (60) days prior to construction</td><td>Umwelt Open Pit</td><td>$3,529,839</td><td>$7,498,853</td></tr>
<tr><td>Sixty (60) days prior to construction</td><td>Tailings Storage Facility</td><td>$2,589,585</td><td>$16,813,080</td></tr>
<tr><td>Sixty (60) days prior to construction</td><td>Llama Open Pit</td><td>$3,235,585</td><td>$6,296,575</td></tr>
<tr><td>Sixty (60) days prior to construction</td><td>Llama Underground</td><td>$456,227</td><td>$549,425</td></tr>
<tr><td>Sixty (60) days prior to construction</td><td>Umwelt Underground</td><td>$354,370</td><td>$2,140,925</td></tr>
<tr><td>Sixty (60) days prior to construction</td><td>Goose Main Open Pit</td><td>$520,213</td><td>$2,216,886</td></tr>
<tr><td>Sixty (60) days prior to construction</td><td>Goose Main Underground</td><td>$161,736</td><td>$881,832</td></tr>
<tr><td>Sixty (60) days prior to construction</td><td>Echo Open Pit and Underground</td><td>$673,467</td><td>$1,729,171</td></tr>
<tr><td colspan="2">TOTAL (ALL STAGES CONSTRUCTED)</td><td>$14,183,622</td><td>$43,189,352</td></tr>
</table>
</td><td>Pending</td></tr>
<tr><td>3.</td><td>The Licensee shall furnish and maintain security with the Minister, under Part C, Item 1, in the form, of the nature, subject to such terms and conditions and in an amount prescribed by, or determined in accordance with, the Act and Regulations or that is satisfactory to the Minister.</td><td>No Change</td></tr>
<tr><td>4.</td><td>The security held by the Kitikmeot Inuit Association under Part C, Item 2 shall be held for the purposes of reclamation consistent with the purposes set out in s. 76(2)(b) of the Act, and the provisions of the Act and Regulations applicable to reclamation of the Mining Undertaking described in the Licence.</td><td>No Change</td></tr>
<tr><td>5.</td><td>Once the Licensee has commenced construction of all stages of infrastructure set out in Part C, Items 1 and 2 and as defined in Schedule A: Scope, Definitions, and Enforcement, the Licensee shall ensure that the security furnished and maintained under Part C, Items 1 and 2 combined is not less than forty three million one hundred eighty-nine thousand three hundred and fifty-two dollars ($43,189,352).</td><td>Pending</td></tr>
<tr><td>6.</td><td>Within ten (10) days after furnishing security with the Minister under Part C, Item 1, the Licensee shall provide evidence to the NWB and the Kitikmeot Inuit Association, that the security has been received by the Minister, indicating the amount, form, nature and conditions of the security.</td><td>No Change</td></tr>
<tr><td>7.</td><td>Within ten (10) days after furnishing security with the Kitikmeot Inuit Association under Part C, Item 2, the Licensee shall provide written confirmation to the NWB and to the Minister, that the security has been received by the Kitikmeot Inuit Association, indicating the amount, form, nature and conditions of the security.</td><td>No Change</td></tr>
<tr><td>8.</td><td>If the Licensee fails to provide written confirmation required under Part C, Item 7 that the required security under Part C, Item 2 has been furnished to the Kitikmeot Inuit Association, the Licensee</td><td>No Change</td></tr>
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	shall, within thirty (30) days of the failure, furnish such additional security to the Minister under the Licence as is required to replace the amount that should have been held by the Kitikmeot Inuit Association.	
9.	The Licensee shall submit to the Board, at least ninety (90) days prior to any material changes to the Undertaking or material changes to the risk of environmental damage associated with the Undertaking that could result in a material change to the reclamation liability associated with the Undertaking (including, but not limited to, updates to the reclamation cost estimate arising from unexpected changes or modifications of the works, activities or stages of infrastructure construction associated with the Undertaking), written notification of such changes.	Pending
10.	The Licensee shall submit, within the updated Interim Closure and Reclamation Plan as per Part J, Item 1, an updated reclamation cost estimate of the total mine closure restoration liability, using the most current version of CIRNAC's RECLAIM Reclamation Cost Estimating Model, its equivalent or other similar method approved by the Board in writing, in accordance with principles of the INAC (as CIRNAC was previously known as) "Mine Site Reclamation Policy in Nunavut" (2002).	Pending
11.	The Licensee shall submit, within the Final Closure and Reclamation Plan as per Part J, Item 2, an updated reclamation cost estimate of the total mine closure restoration liability, using the most current version of CIRNAC's RECLAIM Reclamation Cost Estimating Model, its equivalent or other similar method approved by the Board in writing, in accordance with principles of the "Mine Site Reclamation Policy for Nunavut" (2002). Upon the Project entering into or being maintained in Care and Maintenance, an updated estimate of total mine closure reclamation liability shall be submitted, as above, within twelve (12) months of entering Care and Maintenance and every three (3) years thereafter.	No Change
12.	Upon the Board receiving an updated reclamation cost estimate as required under Part C, Item 10 or 11, the Board may, on its own initiative, or upon application by the Licensee, the Minister and/or the Kitikmeot Inuit Association, conduct a periodic review of the outstanding reclamation liability associated with the Undertaking and may, as the Board considers appropriate, amend the amount of security held under Part C, Item 1. Any submission requesting an amendment to the security provisions of the Licence shall include supporting evidence to justify the amendment and will be processed by the Board as an amendment to the terms and conditions of the Licence.	No Change
13.	The Licensee, the Minister, or the Kitikmeot Inuit Association may apply to amend the amount of security required to be held under the Licence. Any submission requesting a review of the security provisions of the Licence shall include supporting evidence to justify the amendment and will be processed by the Board as an amendment to the terms and conditions of the Licence.	No Change
14.	The security referred to in Part C, Item 1 shall be maintained until such time as the Minister is satisfied that the Licensee has complied with all provisions of the approved ~~Final~~Reclamation and Closure Plan and as it is fully or in part refunded by the Minister pursuant to Section 76(5) of the Act. This clause shall survive the expiry of the Licence or renewals thereof and until full and final reclamation has been completed to the satisfaction of the Minister.	Pending
15.	The Licensee shall submit to the Board, at least sixty (60) days prior to construction of the Tailings Storage Facility, Llama Open Pit, Llama Underground, Umwelt Underground, Umwelt Open Pit, Goose Main Open Pit, Goose Main Underground, ~~and~~ Echo Open Pit, and Echo Underground, a written notification of intent to initiate a new stage of infrastructure construction as per Part C, Item 1.	Updated

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PART D:	CONDITIONS APPLYING TO CONSTRUCTION AND OPERATION	
1.	The Licensee shall implement the *Road Management Plan* and *Borrow Pits and Quarry Management Plan* as approved by the Board.	No Change
2.	The Licensee shall submit to the Board for review, at least sixty (60) days prior to Construction, final design and Construction drawings accompanied with a detailed report for the following: a. Water works; b. Waste Disposal/management facilities; and c. Bulk fuel storage facilities.	No Change
3.	The detailed reports referred to in Part D, Item 2 shall include: a. Design rational, requirements, criteria, parameters, standards analysis, methods, assumptions and limitations; b. Site specific data and analysis to support the design and management decisions; c. Geochemical analysis of Waste Rock and fill, demonstrating their Acid Rock Drainage and Metal Leaching characteristics; d. Construction methods and procedures regarding how infrastructure will be put in place, including quality assurance and quality control measures and equipment to be used; e. Technical specifications for sedimentation, erosion control and bank stabilization measures, including proposed materials, location and extent, place methods and quantities required; f. Timetable for submission, including date of Construction and proposed date of commissioning of infrastructure; and g. Where required, signature and seal by the appropriately qualified Engineer.	No Change
4.	The Licensee shall include in the submission under Part D, Item 2 for the Tailings Storage Facility (TSF) Dam, the results of the Infill Geotechnical Characterization Program as discussed during the Application review. This submission shall include a description of the necessary monitoring instrumentation to confirm performance of the TSF Dam.	No Change
5.	The Licensee shall use Waste rock and fill material for Construction only from approved sources that have been demonstrated, by appropriate geochemical analyses, to not produce Acid Rock Drainage and to be Non-Metal Leaching, and free of contaminants, unless otherwise approved by the Board.	Updated
6.	The Licensee shall identify and demark potentially acid generating rock identified through the *Borrow Pits and Quarry Management Plan* for removal and disposal into the Waste Rock Storage Areas, within the boundaries of quarries/borrow pits, or backfill in the underground mines or Tailings Storage Facility and/or Tailings Facilities or as otherwise approved by the Board.	Updated
7.	The Licensee shall implement sediment and erosion control measures prior to and during Construction, and Operations where necessary, to prevent entry of sediment into Water.	No Change
8.	The Licensee shall conduct Construction monitoring, including daily inspections, during Construction activities.	No Change
9.	The Licensee shall conduct visual inspections for runoff/seepage, and conduct sampling where turbidity is observed, for all construction activity during spring freshet and during and after remarkable rainfall events.	No Change
10.	The Licensee shall, during the construction of all engineered structures, provide the required supervision and field checks by an appropriately qualified and experienced Engineer in such a manner that the project specification can be enforced and, where required, the quality control measures can be followed. The Licensee shall maintain all construction records of all engineered structures to be made available at the request of the Board and/or an Inspector.	No Change
11.	The Licensee shall submit to the Board for review, within ninety (90) days of completion of each facility designed to contain, withhold, divert or retain Waters or Wastes during the construction phase, a Construction Summary Report prepared by a qualified Engineer(s) in accordance with Schedule D, Item 1.	No Change
12.	The Licensee shall prevent any chemicals, petroleum products, fuel or wastes associated with the Undertaking from entering any waterbody.	No Change

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<table>
<tr><td>13.</td><td>The Licensee shall not remove any material from below the ordinary High Water Mark of any Water body unless authorized by the Board in writing.</td><td>No Change</td></tr>
<tr><td>14.</td><td>The Licensee shall minimize disturbance to terrain, permafrost and drainage during movement of contractor's equipment and personnel around the site during construction activities.</td><td>No Change</td></tr>
<tr><td>15.</td><td>The Licensee shall not store material on the surface of frozen streams or lakes except what is for immediate use.</td><td>No Change</td></tr>
<tr><td>16.</td><td>The Licensee shall locate equipment storage areas on gravel, sand or other durable land, a distance of at least thirty-one (31) metres above the ordinary High Water Mark of any waterbody in order to minimize impacts on surface drainage and water quality, unless otherwise authorized by the Board in writing.</td><td>Updated</td></tr>
<tr><td>17.</td><td>The Licensee shall undertake appropriate corrective measures to mitigate impacts on surface drainage resulting from the Licensee's operations.</td><td>No Change</td></tr>
<tr><td>18.</td><td>The Licensee shall limit any in-stream activity to low Water periods. In-stream activity is prohibited during fish migration.</td><td>No Change</td></tr>
<tr><td>19.</td><td>The Licensee shall, for the purposes of bridge construction, ensure that all activities remain outside of the natural channel width by the placement of abutments, footings or armouring above the ordinary High Water Mark so that there is no restriction to the natural channel processes.</td><td>No Change</td></tr>
<tr><td>20.</td><td>The Licensee shall operate ~~the~~ Bulk Fuel Storage Facilities~~y~~ and Fuel Transfer Area (MLA) in accordance with all applicable legislation and industry standards, including:
a. Environmental Code of Practice for Aboveground and Underground Storage Tank Systems Containing Petroleum and Allied Petroleum Products, 2003 (Updated in 2013) or most recent; CCME; and
b. National Fire Code, 2010 or most recent.</td><td>Updated</td></tr>
<tr><td>21.</td><td>All Project related surface runoff and/or discharge from drainage management systems where flow may directly or indirectly enter a waterbody, shall be sampled Weekly and not exceed the following Effluent quality limits:
<table>
<tr><th>Parameter</th><th>Maximum Average Concentration</th><th>Maximum Concentration of Any Grab Sample</th></tr>
<tr><td>Total Suspended Solids (TSS)(mg/L)</td><td>50.0</td><td>100.0</td></tr>
<tr><td>Oil and Grease</td><td>No Visible Sheen</td><td>No Visible Sheen</td></tr>
<tr><td>pH</td><td>Between 6.0 and 9.5</td><td>Between 6.0 and 9.5</td></tr>
</table></td><td>No Change</td></tr>
<tr><td>22.</td><td>The Effluent quality limits in Part D, Item 21 apply during construction activities at Monitoring Program Stations BRP-G-01 to BRP-G-TBD.</td><td>No Change</td></tr>
<tr><td>23.</td><td>The Effluent quality limits in Part D, Item 21 apply during road construction, airstrip extension, and culvert installation or maintenance at Monitoring Program Stations BRP-18, BRP-19, and BRP-23 (or any replacement Monitoring Program Stations as described in an update to Schedule I).</td><td>Updated</td></tr>
<tr><td>24.</td><td>The Licensee shall implement quarry seepage and runoff management in accordance with the approved Water Management Plan.</td><td>No Change</td></tr>
<tr><td>25.</td><td>The Licensee shall consider the principles of adaptive management in construction and operations.</td><td>No Change</td></tr>
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<table>
<tr><td>26.</td><td>The Licensee shall direct all effluent from the dewatering of Llama Lake and Umwelt Lake or as otherwise approved by the Board, to the Water Treatment Plant for treatment, or discharge to the environment if treatment is not required. The Discharge of Effluent from lake dewatering into Goose Lake at Monitoring Program Station BRP-01 (or any replacement Monitoring Program Station as described in an update to Schedule I), shall not exceed the following Effluent quality limits:
<table>
<tr><th>Parameter</th><th>Maximum Average Concentration</th><th>Maximum Concentration of Any Grab Sample</th></tr>
<tr><td>Total Suspended Solids (TSS) (mg/L)</td><td>15</td><td>30</td></tr>
<tr><td>Turbidity (NTU)</td><td>15</td><td>30</td></tr>
<tr><td>Aluminum (mg/L)</td><td>1.5</td><td>3.0</td></tr>
<tr><td>pH</td><td>Between 6.0 and 9.5</td><td></td></tr>
</table></td><td>Updated</td></tr>
<tr><td>27.</td><td>The Licensee shall operate the Sewage Treatment Plant in accordance with the conditions provided in Part F, Item 4 with Effluent compliance at monitoring station BRP-17 (or any replacement Monitoring Program Station as described in an update to Schedule I), during discharge to the tundra.</td><td>No Change</td></tr>
<tr><td colspan="3">PART E: CONDITIONS APPLYING TO WATER USE AND MANAGEMENT</td></tr>
<tr><td>1.</td><td>The Licensee shall implement the Water Management Plan as approved by the Board.</td><td>No Change</td></tr>
<tr><td>2.</td><td>The Licensee shall submit for Board ~~Approval~~ review, within ~~sixty~~ ninety (~~60~~90) days following approval of this Licence by the Minister, a revised Water Management Plan. The updates are to take into account commitments made with respect to submissions received during the technical review of the Application, as well as final submissions and issues raised during the Public Hearing Process~~., where applicable and include at a minimum:~~</td><td>Updated</td></tr>
<tr><td></td><td>~~a. updated *Saline Water Management Plan* appendix; and~~</td><td>Delete</td></tr>
<tr><td></td><td>~~b. further detail respecting potential management and treatment options related to water quality in the effluent discharged from flooded pits and the downstream receiving environment.~~</td><td>Delete</td></tr>
<tr><td>2.</td><td>~~The Licensee shall implement the Water Management Plan as approved by the Board. The Plan shall be reviewed periodically, to reflect changes in operations and/or technology and submit results for review with the Annual Report in accordance with Part B, Item 2.~~</td><td>Deleted</td></tr>
<tr><td>3.</td><td>The Licensee shall obtain fresh Water for domestic, construction, operation and associated uses or as otherwise approved by the Board in writing from the following sources at the specified volumes. Use at the Goose Property shall include mining and milling. Total combined Water Use for these purposes shall not exceed nine hundred ninety-two thousand and four hundred and fifty (992,450) cubic metres per year.</td><td>Updated</td></tr>
<tr><td></td><td>a. The Licensee shall obtain fresh Water from Goose Lake at Monitoring Program Station: BPR-24 (or any replacement Monitoring Program Station as described in an update to Schedule I). The use of Waters from Goose Lake, for all purposes, shall not exceed a total of six hundred and eight thousand and seven hundred (608,700) cubic metres per year.</td><td>Updated</td></tr>
<tr><td></td><td>b. The Licensee shall obtain fresh Water from Big Lake at Monitoring Program Station: BPR-12 (or any replacement Monitoring Program Station as described in an update to Schedule I). The use of Waters from Big Lake, for all purposes, shall not exceed a total of two hundred and seventy-~~eight~~three thousand ~~(78,000~~and seven hundred and fifty (273,750) cubic metres per year.</td><td>Updated</td></tr>
<tr><td></td><td>c. The Licensee shall obtain fresh Water from MLA Pond S1, Pond S2, Lake 3, and Lake 4 at Monitoring Program Stations: BRP-52, BRP-53, BRP-54, BRP-55 (or any replacement Monitoring Program Stations as described in an update to Schedule I). The total combined use of Waters from MLA Pond S1, Pond S2, Lake 3, and Lake 4, for all purposes, shall not exceed a total of one hundred and ten thousand (110,000) cubic metres per year.</td><td>No Change</td></tr>
</table>

4.	The Licensee shall obtain fresh Water from Llama Lake and Umwelt Lake, or as otherwise approved by the Board for the purposes of dewatering the lakes at Monitoring Program Stations: BRP-02 and BRP-06 (or any replacement Monitoring Program Stations as described in an update to Schedule I). Total combined Water Use for this purpose shall not exceed one million four hundred thousand (1,400,000) cubic metres per year during dewatering (Construction Phase).	Updated
5.	The Licensee shall obtain fresh Water from water sources proximal to the Interconnection Winter Ice Road for the purposes of construction, maintenance, and operation of the Interconnection Winter Ice Road and WIR Service/Emergency Camps. Total combined Water Use for this purpose shall not exceed two thousand and twenty-five (2,025) cubic metres *per* year *per* kilometre of road. Annual construction plans, including water sources and predicted volumes of water use, shall be provided as per Part E, Item 13.	Updated
6.	The Licensee shall not use streams as a Water source unless authorized and approved by the Board in writing.	No Change
7.	The Licensee shall equip all Water intake hoses with a screen of an appropriate mesh size to ensure that fish are not entrained and shall withdraw water at a rate such that fish do not become impinged on the screen.	No Change
8.	The Licensee shall not remove any material from below the ordinary High Water Mark of any Water body unless authorized by the Board in writing.	No Change
9.	The Licensee shall undertake appropriate corrective measures to prevent and/or mitigate impacts to surface Water resulting from the undertaking.	No Change
10.	The Licensee shall implement sediment and erosion control measures prior to and during the undertaking to prevent entry of sediment into Water.	No Change
11.	The Licensee shall implement measures to minimize the generation and deposition of dust and/or sediment into Water arising from road use.	No Change
12.	The Licensee shall carry out regular inspections of all Water management structures during periods of flow and keep the records for review upon request of an Inspector. More frequent inspections may be required at the request of an Inspector. This information may be included in the Annual report required by Part B, Item 2.	No Change
13.	The Licensee shall submit to the Board for review, at least sixty (60) days prior to annual Interconnection Winter Ice Road construction, a technical memorandum. The memorandum will include approximate projected routing (subject to changes year to year based on construction and operational conditions), bathymetry, depth, potential locations of possible water withdrawal, proposed volumes to be extracted including for the ~~sourcing~~–WIR Service/Emergency Camps, and anticipated water level decreases. The contents of the memorandum may be altered at the request of the Board. The memorandum may be submitted as an appendix to the approved Water Management Plan.	Updated
14.	The Licensee shall submit to the Board for review, at least sixty (60) days prior to initiation of dewatering, a Dewatering Plan. The Plan may be submitted as an appendix to the approved *Water Management Plan*.	No Change
15.	~~The Licensee shall submit to the Board for review with the 2018 Annual Report in accordance with Part B, Item 2, an updated Water and Load Balance Model as an appendix to the approved *Water Management Plan*. The updates are to take into account the following:~~	Delete
	~~a. updated 2017-2018 baseline data collection that takes into account seasonal variation; and~~	Delete
	~~b. updated hydrodynamic model.~~	Delete
15.	The Licensee shall submit the Board for review ninety (90) days following approval of the licence an updated hydrodynamic model including mixing zone design. The updates are to take into account commitments made with respect to the submissions received during the technical review of the Application, as well as final submission and issues raised during the Public Hearing process, where applicable.	New
16.	The Water and Load Balance Model shall be reviewed periodically, to reflect changes in operations and/or technology and submit results for review with the Annual Report in accordance with Part B, Item 2 as appendix to the approved *Water Management Plan*.	No Change

<table>
<tr><td colspan="2">PART F: CONDITIONS APPLYING TO WASTE DISPOSAL AND MANAGEMENT</td><td></td></tr>
<tr><td>1.</td><td>The Licensee shall implement the Ore Storage Management Plan, ~~Mine~~ Waste Rock Management Plan, Tailings Management Plan, Landfill and Waste Management Plan, Incineration Management Plan, Landfarm Management Plan, and Hazardous Materials Management Plan as approved by the Board.</td><td>Updated</td></tr>
<tr><td>2.</td><td>The Licensee shall provide at least ten (10) days' notice to the Inspector prior to any planned discharges from any Facilities. The notice shall include the estimated volume proposed for discharge and location. The Inspector and the Licensee may agree in writing to alternate notification requirements for ongoing, frequent, or regularly scheduled discharges.</td><td>No Change</td></tr>
<tr><td>3.</td><td>The Licensee shall perform all land applied discharges in a manner that prevents erosion at the point of discharge and downstream.</td><td>No Change</td></tr>
<tr><td>4.</td><td>The Licensee shall direct all Sewage at the Goose Property to the Sewage Treatment Plant (STP) for treatment. STP Effluent may be discharged into the Tailings Storage Facility, Tailings Facilities~~y~~ or onto land. The Discharge of Effluent onto land from the STP, at Monitoring Program Station BRP-17 or to the Tailings Storage Facility or Tailings Facilities~~y~~ at BRP-17A (or any replacement Monitoring Program Stations as described in an update to Schedule I) shall not exceed the following Effluent quality limits:
<table>
<tr><th rowspan="2">Parameter</th><th>Monitoring Station BRP-17</th><th>Monitoring Station BRP-17A</th></tr>
<tr><th>Maximum Allowable Concentration (mg/L)</th><th>Maximum Allowable Concentration (mg/L)</th></tr>
<tr><td>BOD_5</td><td>30</td><td>100</td></tr>
<tr><td>Total Suspended Solids (TSS)</td><td>35.0</td><td>120</td></tr>
<tr><td>Fecal Coliform (CFU/100 mL)</td><td>1,000</td><td>10,000</td></tr>
<tr><td>Ammonia (NH_3-N)</td><td>4[a], 8[b]</td><td></td></tr>
<tr><td>Phosphorus</td><td>4[a], 8[b]</td><td></td></tr>
<tr><td>Total Oil and Grease</td><td>No Visible Sheen</td><td></td></tr>
<tr><td>pH</td><td>Between 6.0 and 9.5</td><td></td></tr>
<tr><td colspan="3">Notes: a – Maximum average concentration; b – Maximum concentration of any grab sample.</td></tr>
</table></td><td>Updated</td></tr>
<tr><td>5.</td><td>The Licensee shall direct all sludge from the STP to the incinerator, the Landfarms as a soil enhancement, or as otherwise approved by the Board in writing.</td><td>No Change</td></tr>
<tr><td>6.</td><td>The Licensee shall direct all Greywater at the MLA to an oil and grease separator prior to discharge to the environment. The Discharge of MLA treated greywater onto land, at Monitoring Program Station BRP-42 (or any replacement Monitoring Program Station as described in an update to Schedule I), shall not exceed the following Effluent quality limits:
<table>
<tr><th>Parameter</th><th>Maximum Allowable Concentration (mg/L)</th></tr>
<tr><td>BOD_5</td><td>100</td></tr>
<tr><td>Total Suspended Solids (TSS)</td><td>120.0</td></tr>
<tr><td>Fecal Coliform (CFU/100 mL)</td><td>10,000</td></tr>
<tr><td>Total Oil and Grease</td><td>No Visible Sheen</td></tr>
<tr><td>pH</td><td>Between 6.0 and 9.5</td></tr>
</table></td><td>No Change</td></tr>
</table>

<table>
<tr><td>7.</td><td>The Licensee shall submit to the Board for approval, at least ninety (90) days prior to the Construction/installation of facilities, a site-specific Operation and Maintenance Manual(s) for the Water Treatment Plant and the Sewage Treatment Plant, prepared in accordance with the "Guidelines for the Preparation of an Operation and Maintenance Manual for Sewage and Solid Waste Disposal Facilities in the Northwest Territories; 1996". The Manual(s) shall include sludge management and disposal information and contingency measures in the event of plant malfunction. These Manuals may be submitted under a single cover or as separate documents.</td><td>No Change</td></tr>
<tr><td>8.</td><td>The Licensee shall, for all Project related non-hazardous solid wastes, backhaul to a licenced facility, dispose of and contain at the Landfill, or dispose of as otherwise approved by the Board in writing.</td><td>No Change</td></tr>
<tr><td>9.</td><td>The Licensee shall maintain records of all Waste backhauled and confirmation of proper disposal through the use of Waste manifest tracking systems and registration with the Government of Nunavut, Department of Environment.</td><td>No Change</td></tr>
<tr><td>10.</td><td>The Licensee shall backhaul and dispose of all Hazardous Wastes, waste oil and non-combustible waste generated through the course of the operation at a licensed waste disposal site.</td><td>No Change</td></tr>
<tr><td>11.</td><td>The Licensee shall contain and remediate all Project related petroleum hydrocarbon contaminated soils at the Goose Property Landfarm or MLA Landfarm, or as otherwise approved by the Board in writing.</td><td>No Change</td></tr>
<tr><td>12.</td><td>The Discharge of Effluent onto land from the Project areas and associated Monitoring Program Stations including:
<table>
<tr><th>Project Area</th><th>Location</th><th>Monitoring Program Station Number</th></tr>
<tr><td rowspan="2">Hazardous Waste Management Area</td><td>Goose Property</td><td>BRP-16</td></tr>
<tr><td>MLA</td><td>BRP-45</td></tr>
<tr><td rowspan="2">Landfarm</td><td>Goose Property</td><td>BRP-51</td></tr>
<tr><td>MLA</td><td>BRP-44</td></tr>
<tr><td rowspan="2">Fuel Tank Farm</td><td>Goose Property</td><td>BRP-15</td></tr>
<tr><td>MLA</td><td>BRP-43</td></tr>
<tr><td>Temporary Fuel Storage Facility</td><td>MLA</td><td>BRP-49</td></tr>
</table>
(or any replacement Monitoring Program Station as described in an update to Schedule I), shall not exceed the following Effluent quality limits:
<table>
<tr><th>Parameter</th><th>Maximum Average Concentration (mg/L)</th><th>Maximum Concentration of Any Grab Sample (mg/L)</th></tr>
<tr><td>pH</td><td>Between 6.0 and 9.5</td><td>Between 6.0 and 9.5</td></tr>
<tr><td>Total Suspended Solids (TSS)</td><td>15</td><td>30</td></tr>
<tr><td>Total Oil and Grease</td><td>5, No Visible Sheen</td><td>5, No Visible Sheen</td></tr>
<tr><td>Benzene</td><td>0.370</td><td>0.370</td></tr>
<tr><td>Toluene</td><td>0.002</td><td>0.002</td></tr>
<tr><td>Ethylbenzene</td><td>0.09</td><td>0.09</td></tr>
<tr><td>Lead</td><td>0.1</td><td>0.1</td></tr>
</table></td><td>No Change</td></tr>
<tr><td>13.</td><td>Effluent that does not meet the Effluent quality limits in Part F, Item 12, shall be directed to the Tailings Storage Facility ~~and~~, Tailings Facilities, Primary Water Pond, Plant Site Pond, Saline Water Pond, or Reservoirs.</td><td>Updated</td></tr>
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<table>
<tr><td>14.</td><td>Unless otherwise approved by the Board in writing, the Licensee shall not open burn plastics, wood treated with preservatives, electric wire, Styrofoam, asbestos or painted wood to prevent the deposition of waste materials of incomplete combustion and/or leachate from contaminated ash residual, from impacting any surrounding waters.</td><td>No Change</td></tr>
<tr><td>15.</td><td>The Licensee shall dispose of all tailings and operate the Tailings Storage Facility and Tailings Facilities in accordance with the Tailings Management Plan, as approved by the Board under Part B, Item 14. The Licensee shall not discharge Effluent from the any Tailings Storage Facility and Tailings Facilities under normal operating conditions, unless approved by the Board as per Part F, Item 16, and effluent criteria und Part F, Item 21, and Item 22 are met.</td><td>Updated</td></tr>
<tr><td>16.</td><td>The Licensee shall submit to the Board for approval, at least one hundred and twenty (120) days prior to a discharge of Effluent subject to Part F, Item 21, ~~from any tailings management facility,~~ a ~~Temporary Tailings~~ Effluent Discharge Plan. This Plan must include the following:
a. ~~Justification for temporary discharge~~;
b. Volume, rate, and quality of discharge;
c. Final discharge point and characteristics of the receiving environment;
d. ~~Proposed Effluent quality limits~~ Proposed changes to Schedule J; and
e. Mitigation and design options to enhance mixing of effluent in the receiving environment~~options to avoid future discharges~~.

This Plan may be submitted as an appendix to the approved Water Management Plan.</td><td>Updated</td></tr>
<tr><td>17.</td><td>The Licensee shall direct all Effluent from all Waste Rock Storage Areas, all Ore Stockpiles, and the ANFO Plant to the Primary Water Pond, Plant Site Pond, Saline Water Pond, Tailings Storage Facility, or Tailings Facilities~~y~~, unless otherwise approved in writing by the Board.</td><td>Updated</td></tr>
<tr><td>18.</td><td>The Licensee shall direct all Effluent from the Primary Water Pond, Plant Site Pond, Saline Water Pond, or Reservoirs to the Tailings Storage Facility, Tailings Facilities~~y~~, ~~or the Mill~~ for re-use unless otherwise approved in writing by the Board.</td><td>Updated</td></tr>
<tr><td>19.</td><td>The Licensee shall direct all Effluent from the MLA Desalinization Plant to the marine environment.</td><td>No Change</td></tr>
<tr><td>20.</td><td>The Licensee shall direct all Saline Water (groundwater) from underground mines, open pit mines, or storage facilities to the Primary Water Pond, Plant Site Pond, Saline Water Pond, Reservoirs, Tailings Storage Facility, Tailings Facilities, or to ~~Llama Underground, Llama Reservoir, Goose Main Underground, or Umwelt Underground.~~ any underground.</td><td>Updated</td></tr>
<tr><td>21.</td><td>All Effluent discharged from a Tailings Facility, Tailings Storage Facility, or other Reservoir, shall be directed to Goose Lake, upon approval of the Board in writing at Monitoring Station(s) TBD, and shall not exceed the following Effluent quality limits:
<table>
<tr><th>Parameter</th><th>Maximum Authorized Monthly Mean Concentration (mg/L)</th><th>Maximum Concentration of Any Grab Sample (mg/L)</th></tr>
<tr><td>Chloride</td><td>600</td><td>640</td></tr>
<tr><td>Nitrate, as N</td><td>60</td><td>120</td></tr>
<tr><td>Nitrite, as N</td><td>0.6</td><td>1.2</td></tr>
<tr><td>Total ammonia, as N</td><td>6</td><td>12</td></tr>
<tr><td>Total phosphorus, as P</td><td>0.25</td><td>0.50</td></tr>
<tr><td>TSS</td><td>15</td><td>30</td></tr>
<tr><td>T-Al</td><td>0.5</td><td>1.0</td></tr>
<tr><td>T-As</td><td>0.1</td><td>0.2</td></tr>
<tr><td>T-Cu</td><td>0.008</td><td>0.016</td></tr>
<tr><td>T-CN</td><td>0.5</td><td>1.0</td></tr>
<tr><td>T-Fe</td><td>1</td><td>2</td></tr>
</table></td><td>New</td></tr>
</table>

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T-Pb	0.02	0.04	
T-Ni	0.25	0.5	
T-Zn	0.2	0.23	
TPH	3	6	
pH	6.0 – 9.5		

22.	The Licensee shall demonstrate that Effluent discharged from a Final Discharge Point at Monitoring Station(s) TBD to Goose Lake is non-acutely lethal under the following test and as stipulated in Schedule J of the Licence. a. Acute Lethality of Effluents to Rainbow Trout (as per Environment Canada's Environmental Protection Series Biological Test Method EPS/1/RM/13 Second Edition December 2000 (with May 2007 amendments).	New
23.	The Licensee shall contain all greywater from WIR service/emergency camps in a sump located at a distance of at least thirty one (31) metres above the ordinary high Water mark of any Water body, at a site where direct flow into a Water body is not possible and no additional impacts are created, or discharge it to a wetland area located at a distance of at least thirty one (31) metres above the ordinary high Water mark of any Water body, at a site where direct flow into a Water body is not possible and no additional impacts are created, unless otherwise approved by the Board in writing	New
24.	All solid and hazardous waste generated at the WIR Emergency/Service Camps will be backhauled to the MLA or Goose Property for disposal in accordance with the *Landfill and Waste Management Plan and Hazardous Materials Management Plan*.	New
25.	The Licensee shall submit for Board review, within ninety (90) days following approval of this Licence by the Minister or no later than the 2021 Annual Report, a revised *Waste Rock Management Plan* and *Tailings Management Plan*. The update are to take into account commitments made with respect to submissions received during the technical review of the Application, as well as final submissions and issues raised during the Public Hearing Process.	New

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PART G: CONDITIONS APPLYING TO MODIFICATIONS		
1.	The Licensee may, without written consent from the Board, carry out Modifications provided that such Modifications are consistent with the terms of this Licence and the following requirements are met: a. The Licensee has notified the Board in writing of such proposed Modifications at least sixty (60) days prior to beginning the Modifications; b. Such Modifications do not place the Licensee in contravention of the Licence or the Act; c. Such Modifications are consistent with the applicable terms and conditions of the NIRB Project Certificate No. 007; d. The Board has not, within sixty (60) days following notification of the proposed Modifications, informed the Licensee that review of the proposal will require more than sixty (60) days; and e. The Board has not rejected the proposed Modifications.	No Change
2.	Modifications for which any of the conditions referred to in Part G, Item 1 have not been met can be carried out only with approval from the Board in writing.	No Change
3.	Applications for modifications shall contain: a. A description of the facilities and/or works to be constructed; b. The proposed location of the structure(s); c. Identification of any potential impacts to the receiving environment; d. A description of any monitoring required, including sampling locations, parameters measured, and frequencies of sampling; e. A proposed schedule for construction; f. Drawings of any Engineered Structures stamped by a Professional Engineer; and g. Proposed sediment and erosion control measures.	No Change
4.	The Licensee shall provide to the Board, within ninety (90) days of completion of the Modification, as-built plans and drawings of the Modifications referred to in this Part. These plans and drawings shall be stamped by an Engineer.	No Change

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PART H: CONDITIONS APPLYING TO EMERGENCY RESPONSE AND CONTINGENCY PLANNING		
1.	The Licensee shall implement the *Risk Management and Emergency Response Plan, Fuel Management Plan,* and *Spill Contingency Plan* as approved by the Board.	No Change
2.	The Licensee shall prevent any chemicals, petroleum products or unauthorized Wastes associated with the Project from entering Water.	No Change
3.	The Licensee shall provide secondary containment for fuel and chemical storage as required by applicable standards and acceptable industry practice.	No Change
4.	The Licensee shall perform regular inspections in accordance with the Approved *Environmental Protection Plan* and *Fuel Management Plan* of petroleum products storage and containment facilities, fuel tanks and connectors, for leaks and settlement and shall keep a written log of inspections to be made available to an Inspector upon request. More frequent inspections may be requested by an Inspector.	No Change
5.	If the Licensee provides notification under Part J, Item 3, the Licensee shall submit to the Board Addendums for the *Risk Management and Emergency Response Plan, Fuel Management Plan,* and *Spill Contingency Plan* detailing the changes in operations, personnel, responsibilities, availability of equipment and access to the site for assistance.	No Change
6.	The Licensee shall keep a copy of the *Risk Management and Emergency Response Plan* and *the Spill Contingency Plan* at each site of operation.	No Change
7.	The Licensee shall conduct emergency maintenance and servicing on equipment, in designated areas, and shall implement measures to collect motor fluids and other Waste to prevent and contain spills.	No Change
8.	The Licensee shall, subject to Section 16 of the Regulations, report any unauthorized deposits or foreseeable unauthorized deposits of waste and/or discharges of Effluent, and: a. Employ the *Spill Contingency Plan*; b. Report the incident immediately via the 24-Hour NWT/NU Spill Reporting Line (867) 920-8130 and to the Inspector at (867) 975-4295; and c. For each spill occurrence, submit a detailed report to the Inspector and the NWB, no later than thirty (30) days after initially reporting the event, which includes the amount and type of spilled product, the GPS location of the spill, and the measures taken to contain and clean up the spill site.	No Change
9.	The Licensee shall, in addition to Part H, Item 8, regardless of the quantity of release of a harmful substance, report to the NWT/NU Spill Reporting Line and the NWB if the release is near or into a waterbody.	No Change
10.	The Licensee shall prevent any chemicals, petroleum products or Wastes associated with the project from entering Water. All sumps and fuel caches shall be located at a distance of at least thirty-one (31) metres from the ordinary high Water mark of any adjacent Water body and inspected on a regular basis.	New
11.	The Licensee shall conduct any equipment maintenance and servicing in designated areas and shall implement special procedures (such as the use of drip pans) to manage motor fluids and other Waste and contain potential spills.	New

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PART I: CONDITIONS APPLYING TO GENERAL AND AQUATIC EFFECTS MONITORING		
1.	The Licensee shall implement the *Environmental Management and Protection Plan* and *Aquatic Effects Management Plan* as approved by the Board and the *Quality Assurance / Quality Control Plan* as accepted by the Board.	No Change
2.	~~The Licensee shall submit for Board approval, prior to March 31, 2019, an updated *Aquatic Effects Management Plan*. The update shall address all comments and commitments made during the regulatory review of the Application.~~	Delete
3.	The Licensee shall install and maintain flow meters or other such devices, or implement suitable methods required for the measuring of Water use and Effluent discharge volumes, to be operated and maintained to the satisfaction of an Inspector.	No Change
4.	The Licensee shall undertake the Monitoring Program provided in the Tables 1 and 2 of Schedule I.	No Change
5.	The Licensee shall submit to the Board, at least sixty (60) days prior to a change in Project Phase (Construction, Operations Stage(s)~~1, Operations Stage 2, and Operations Stage 3~~), a written notification of the intent to change project phase. Notification may be provided separately or in accordance with the monthly monitoring report as per Part I, Item 18	Updated
6.	The Licensee shall establish the locations and GPS coordinates for all Monitoring Program Stations in consultation with an Inspector. Additional and replacement Monitoring Program Stations may be added in consultation with an Inspector.	No Change
7.	The Licensee shall install signs that identify Monitoring Program Stations. All signs must be in English, Inuktitut, and Inuinnaqtun and shall be located and maintained to the satisfaction of an Inspector.	No Change
8.	The Licensee shall measure and record the following on a Monthly basis in cubic metres: a. The volume of fresh Water obtained from Big Lake; b. The volume of fresh Water obtained from Goose Lake; c. The volume of fresh Water obtained from MLA Pond S1, Pond S2, Lake 3, and Lake 4; d. The volume of fresh Water obtained from Llama Lake ~~and~~, Umwelt Lake, and other water bodies approved by the Board for dewatering; e. The volume of fresh Water obtained from each water source for the Interconnection Winter Ice Road and Winter Ice Road Service/Emergency Camps; f. The volume of Reclaim Water obtained from the Primary Water Pond, Tailings Storage Facility and/or Tailings ~~Facility(s)~~Facilities for process water at the process plant~~;~~ or alternative treatment system. g. The estimated volume of greywater and sewage released to the environment and/or to the Tailings Storage Facility and Tailings Facilities; h. The volume of sludge removed from the STP and the location and method of disposal; i. The volume of effluent discharged from Landfarms and Fuel Tank Farms, and Fuel Storage Facilities; ~~and~~ j. The estimated volume of contact water, WRSA Effluent, Ore Stockpile Effluent, or other Effluent/Water streams pumped into the Primary Water Pond, Tailings Storage Facility ~~and/or~~, Tailings Facilities and/or transferred between ponds or facilities; and k. The volume of effluent discharged.	Updated
9.	The Licensee shall measure and record the following on a Monthly basis in tonnes: a. Quantity of Waste placed within the Landfill(s) and Landfarm(s); b. Tonnes of Waste Rock placed into, and total stored at, each Waste Storage Area and other locations approved by the Board; c. Dry tonnes of tailings placed into, and stored at, the Tailings Storage Facility and Tailings Facilities; and d. Tonnes of ore stockpiled and ore processed through the processing plant.	No Change

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10.	The Licensee shall undertake a geotechnical inspection, to be carried out annually by a Geotechnical Engineer, between the months of July and September. The inspection shall be conducted in accordance with the *Canadian Dam Safety Guidelines* where applicable and take into account all major earthworks and address the following: a. Tailings Storage Facility and associated ponds, dams, and dykes; b. Geotechnical instrumentation and associated monitoring data; c. Geophysical and permafrost conditions; d. Tailings Storage Facility and Tailings Facilities; e. Open Pit walls; f. All-weather roads and watercourse crossings; g. Waste Rock Storage Area; h. Landfill(s); i. Landfarm(s) j. Fuel Tank Farms and Fuel Storage Facilities; k. Quarries and borrow pits; l. Water management structures; m. Underground openings; n. Underground groundwater conditions; o. Perimeter berms and collection ponds; and p. Stream diversions.	No Change
11.	The Licensee shall submit to the Board for approval, within ninety (90) days of completion of the Inspection in accordance with Part I, Item 10, the Geotechnical Engineer's Inspection Report. The Report shall include a cover letter from the Licensee outlining an implementation plan to address the recommendations of the Geotechnical Engineer.	No Change
12.	The Licensee shall visually monitor and record observations in accordance with the approved *Environmental Management and Protection Plan*, to be made available to an Inspector upon request, during periods of discharge to the land at Monitoring Program Station BRP-15, BRP-16, BRP-43, BRP-44, BRP-45, BRP-49, BRP-51 (or any replacement Monitoring Program Stations as described in an update to Schedule I), as described in Part F, Item 12.	No Change
13.	The Licensee shall keep a digital photographic record of all the Project's watercourse crossings before, during, and after Construction.	No Change
14.	The Licensee shall maintain and implement the Quality Assurance / Quality Control Plan (QA/QC) ~~dated October 2017~~ that was accepted by the Board as part of the Application.	Updated
15.	The Licensee shall annually review the QA/QC Plan and modify the Plan as necessary. Proposed changes shall be submitted to an Accredited Laboratory for approval.	No Change
16.	All analyses shall be conducted as described in the most recent edition of "*Standard Methods for the Examination of Water and Wastewater*" or by other such methods approved by an Analyst.	No Change
17.	All compliance analyses shall be performed in an accredited laboratory according to ISO/IEC Standard 17025. The accreditation shall be current and in good standing.	No Change
18.	The Licensee shall submit to the Board, within thirty (30) days following the month being reported, a Monthly Monitoring Report. The Report shall include: a. All data and information required by this Part and generated by the Monitoring Program in the Tables of Schedule I; b. An assessment of data to identify areas of non-compliance with regulated discharge parameters referred to in this Licence; and c. Reports should document conditions during spring freshet, major rain events, and periods of sustained precipitation including flow measurements, photographs, and notes.	No Change

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19.	As noted in Part B, Item 19, changes to the Schedules, including Schedule I, which provides details of the Monitoring Program, may, at the Board's discretion, be considered without requiring an Amendment to the Licence. However, the Board must approve any changes to the Monitoring Program, as outlined in Part I and Schedule I; any request for changes to the Monitoring Program should be submitted to the NWB in writing, and should include the justification for the change.	No Change
20.	Additional monitoring may be imposed by the Inspector.	No Change

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PART J: CONDITIONS APPLYING TO ABANDONMENT, RECLAMATION AND CLOSURE		
1.	The Licensee shall implement the approved *Interim Closure and Reclamation Plan*. The Licencee shall submit to the Board for approval within twelve (12) months following the commencement of the Operation Phase an updated *Interim Closure and Reclamation Plan*.	No Change
2.	The Licensee shall submit to the Board for approval, at least twelve (12) months prior to the expected end of planned mining, a Final Closure and Reclamation Plan. The Final Closure and Reclamation Plan shall incorporate revisions, which reflect the pending closed status of the mine, and include: a. Soil Quality Remediation Objectives reflecting the applicable *CCME Guidelines and the Government of Nunavut Environmental Guideline for Site Remediation*; b. Environmental Site Assessment plans in accordance with the applicable Canadian Standards Association (CSA) criteria; and c. An evaluation of the human health and ecological risks associated with the Closure options proposed.	No Change
3.	The Licensee shall submit to the Board, at least sixty (60) days prior to, or as soon as practically possible, written notification of the Licensee's intention to enter into a Care and Maintenance Phase.	No Change
4.	The Licensee shall provide the Board, within thirty (30) days of the Licensee providing notice of intent to enter into Care and Maintenance under Part J, Item 3, a Care and Maintenance Plan that details the Licensee's plans for maintaining compliance with the Terms and Conditions of the Licence.	No Change
5.	The Licensee shall, should the Project remain, or be in Care and Maintenance, submit an updated estimate of total mine closure restoration liability, within twelve (12) months of entering Care and Maintenance and every three (3) years thereafter.	No Change
6.	The Licensee shall review the Plans referred to in this Part as required by changes in operation and/or technology and modify the Plans accordingly. Revisions to the Plans should incorporate design changes and adaptive engineering required and implemented during Construction and reflect actual site conditions and monitoring results over the life of the Project.	No Change
7.	The Licensee shall include, with the Plan submitted under Part J, Items 1, 2, and 5, an updated reclamation cost estimate of the total mine closure restoration liability, using the most current version of CIRNAC's RECLAIM Reclamation Cost Estimating Model, its equivalent or other similar method approved by the Board in writing, in accordance with principles of the INAC (as CIRNAC was previously known as) "*Mine Site Reclamation Policy in Nunavut*" (2002).	No Change
8.	The Licensee shall complete all reclamation work in accordance with the Plan(s) referred to in this Part, as and when approved by the Board in writing.	No Change
9.	The Licensee shall implement Progressive Reclamation of any component of the Project no longer required by the Project.	No Change
10.	The Licensee shall remove any culverts and restore, as practicable, the drainage to match the natural channel. Measures shall be implemented to minimize erosion and sedimentation.	No Change
11.	All roads and airstrip, if any, shall be re-graded, as practicable, to match natural contours to reduce erosion.	No Change
12.	Areas that have been contaminated by hydrocarbons from normal fuel transfer procedures shall be reclaimed to meet objectives as outlined in the Government of Nunavut's *Environmental Guideline for Site Remediation*, (2010 version or current version in place at the time of Reclamation).	No Change

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13.	To the extent practical, the Licensee shall contour and stabilize all disturbed areas to a pre-disturbed state upon completion of work.	No Change
14.	The Licensee shall submit to the Board, at least sixty (60) days prior to the Licensee intending to seek Recognized Closed Mine status for the Project, written notification of the intent to seek closure status.	No Change
SCHEDULE A: SCOPE, DEFINITIONS, AND ENFORCEMENT		
Abandonment means the permanent dismantlement of a facility so it is permanently incapable of its intended use. This includes the removal of associated equipment and structures;		No Change
Act means the Nunavut Waters and Nunavut Surface Rights Tribunal Act;		No Change
Acid Rock Drainage (ARD) means the production of acidic leachate, seepage or drainage from underground workings, open pits, ore piles, waste rock, construction rock that can lead to the release of metals to land, groundwater or surface water during the life of the Project and after Closure;		No Change
Acute Lethal Effluent means acutely lethal effluent as defined in the *Metal and Diamond Mining Effluent Regulations* SOR/2002-222 dated June 6, 2002, last amended on December 8, 2017 and as may be further amended from time to time;		No Change
Adaptive Management means a management plan that describes a way of managing risks associated with uncertainty and provides a flexible framework for mitigation measures to be implemented and actions to be taken when specified thresholds are exceeded;		No Change
Addendum means the supplemental text that is added to a full plan or report, usually included at the end of the document and is not intended to require a full resubmission of the revised report. It may also be considered as an appendix or supplement;		No Change
Amendment means a change to any terms and conditions of this Licence through application to the NWB, requiring a change, addition, or deletion of specific terms and conditions of the Licence not considered as a modification;		No Change
Analyst means an Analyst designated by the Minister under section 85 (1) of the Act;		No Change
ANFO Plant means the explosives storage and preparation facility for production of ammonium nitrate fuel oil (ANFO) explosives and includes the ANFO truck wash facility;		No Change
Annually means, in the context of monitoring frequency, one sampling event occurring every 365 days with a minimum of 200 days between sampling events;		No Change
Application for the purposes of this Licence includes the totality of relevant documents filed by the Licensee on the NWB and NIRB public registries in support of the Water Licence application filed in October 2017, application for amendment filed in October 2020, and includes all documents subsequently submitted to the Board throughout the regulatory processes;		Updated
Appurtenant Undertaking means an undertaking in relation to which a use of water or a deposit of Waste is permitted by a licence issued by the Board;		No Change

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Board means the Nunavut Water Board established under Article 13 of the *Nunavut Agreement* and under section 14 of the *Act*;	No Change
Borrow Pits means sites where materials, such as gravel or sand, are excavated for the purposes of constructing site infrastructure and facilities;	No Change
Canadian Council of the Ministers of Environment (CCME) means the organization of the Canadian Ministers of Environment that sets guidelines for environmental protection across Canada such as the *Canadian Water Quality Guidelines for the Protection of Aquatic Life*;	No Change
Care and Maintenance in respect of a mine, means the status of the facility when the Licensee ceases gold production (Operations Phase) temporarily for an undefined period of time;	No Change
Chief Administrative Officer means the Executive Director of the Nunavut Water Board;	No Change
Chief Executive Officer means the Chair or Chairperson of the Nunavut Water Board;	No Change
Closure means when an Operator ceases operations at a facility without the intent to resume mining activities in the future;	No Change
Closure Phase means that period of time after the Operations Phase where the Project is no longer producing gold, there is no intention to resume mining activities, and reclamation and remediation of all mine facilities is undertaken. The Closure Phase is not within the scope of this Licence;	No Change
Construction Phase means that period of time where the Project facilities and infrastructure are under construction prior to producing gold during the Operation Phase~~. This phase can be broken into early construction and late construction. The Late Construction phase starts when the Saline Water Pond is ready for use~~;	Updated
Contact Water means any water that may be physically or chemically affected by mining activities, including all runoff and seepage from WRSA, Ore Stockpiles and other mine facilities;	No Change
Dam Safety Guidelines means the *Canadian Dam Association (CDA) Dam Safety Guidelines (DSG)*, (published in 2007, revised in 2013 or subsequent approved editions);	No Change
Deleterious Substances means a substance as defined in section 34(1) of the *Federal Fisheries Act*;	No Change
Deposit means the placement of waste rock, tailings or other solids materials on land or in water;	No Change
Diffuser means an Effluent discharge pipeline within a water body designed to discharge and enhance mixing of Effluent in the receiving environment;	New
Discharge means the release of any water or waste to the receiving environment;	No Change
Domestic Waste means all solid waste generated from the accommodations, kitchen facilities and all other site facilities, excluding those Hazardous Wastes associated with the Project;	No Change
~~Echo Open Pit and Underground~~ ~~collectively means the Echo Open Pit and Echo Underground works;~~	Delete

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Echo Open Pit means the open pit located adjacent to Goose Lake named the Echo Open Pit and all directly related facilities as generally described in the Application. The Echo Open Pit is general located above the Echo Underground works;	No Change
Echo Underground means the underground works located adjacent to Goose Lake named the Echo Underground and all directly related facilities as generally described in the Application. The Echo Underground is generally located below the Echo Open Pit;	No Change
Effluent means treated or untreated liquid waste material that is discharged into the environment from all site water management facilities;	No Change
Engineer means a professional engineer registered to practice in Nunavut in accordance with the *Consolidation of Engineers and Geoscientists Act S. Nu 2008, c.2* and the *Engineering and Geoscience Professions Act S.N.W.T. 2006, c.16 Amended by S.N.W.T. 2009, c.12*;	No Change
Engineered Structure means any facility, which was designed and approved by a Professional Engineer registered with the Association of Professional Engineers, Geologists and Geophysicists of Nunavut;	No Change
Environmental Assessment means, in respect of the Project, all material filed with the Nunavut Impact Review Board (NIRB) on the NIRB's Public Registry (established under the authority of Article 12 of the Nunavut Agreement) that is associated with the NIRB's impact assessment (Review) of the Project or modification(s) and associated with the scope of the activities, works and Undertakings authorized in accordance with the terms and conditions of the ~~Licence;~~Project Certificate;	Updated
Final Discharge Point in respect of an effluent, means, as defined in the *Metal and Diamond Mining Effluent Regulations*, SOR/2002-222 (as may be amended from time to time) an identifiable discharge point of a mine beyond which the operator of the mine no longer exercises control over the quality of the effluent;	No Change
Fuel Storage Facility means the fuel storage areas consisting of multiple double walled tanks, temporary berms, and all associated infrastructure;	No Change
Fuel Tank Farm means the fuel storage areas consisting of multiple large permanent tanks, engineered secondary containment areas, and all associated infrastructure;	No Change
Fuel Transfer Area means the fuel storage area at the MLA consisting of permanent tank(s), engineered secondary containment, and all associated infrastructure (e.g., intermediate fuel pump station) near the freight storage area;	New
Geotechnical Engineer means a professional engineer registered with the Association of Professional Engineers, Geologist and Geophysicists of Nunavut and whose principal field of specialization is the engineering properties of earth materials in dealing with manmade structures and earthworks. Such structures and earthworks can include shallow and deep foundations, retaining walls, dams, and embankments;	No Change
Goose Main Open Pit means the open pit located adjacent to Goose Lake named the Goose Main Open P~~p~~it and all directly related facilities as generally described in the Application. The Goose Main Open Pit is generally located above the Goose Main Underground works;	Updated
Goose Main Reservoir means the waterbody at Closure that fills the Goose Main Open Pit;	New

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Goose Main Underground means the underground works located adjacent to Goose Lake named the Goose Main Underground and all directly related facilities as generally described in the Application. The Goose Main Underground is generally located below the Goose Main Open Pit;	No Change
Goose Property means the area adjacent to Goose Lake where the mining and milling operations for the Back River Project are located as generally described in the Application;	No Change
Goose Property Waste Management Facilities means the facilities at the Goose Property designed to sort and manage wastes such that combustible wastes are incinerated, Hazardous Wastes are stored prior to trans-shipping to the MLA, and non-combustible waste is sorted and/or stored prior to either trans-shipping to the MLA or disposal in an approved Landfill at the Goose Property;	No Change
Goose Property Water Supply Facilities means the facilities at the Goose Property designed to provide potable, construction, and industrial water. This includes permanent intake structures, pumps, and pipelines at Big Lake and Goose Lake;	No Change
Goose Property Water Treatment Facilities means the facilities at the Goose Property designed to reduce TSS and possibly address other water quality issues when dewatering Llama Lake and Umwelt Lake or any other water bodies approved by the Board and then later when improving the water quality of ~~the Goose Main~~any Tailings Storage Facility, Tailings Facilities, or Reservoir for re-use;	Updated
Grab Sample means an undiluted quantity of material collected at a particular time and place that may be representative of the total substance being sampled at the time and place it was collected;	No Change
Greywater means the component of effluent produced from domestic use (i.e. washing, bathing, food preparation and laundering), but excluding sewage;	No Change
Groundwater means water that occupies pores and fractures in rock and soil below the ground surface in a liquid or frozen state;	No Change
Hazardous Waste means materials or contaminants which are categorized as dangerous goods under the Transportation of Dangerous Good Act 1992 (1992, c. 34) and/or that are no longer used for their original purpose and are intended for recycling, treatment, disposal or storage;	No Change
High Water Mark means the usual or average level to which a body of freshwater rises at its highest point and remains for a sufficient time so as to change the characteristics of the land (ref. Department of Fisheries and Oceans Canada, Operational Statement: Mineral Exploration Activities);	Updated
ICP Metals Scan means elements detected using Inductively Coupled Plasma (ICP) mass spectrometer. Metal parameters chosen to be included in an ICP Metals Scan under the Licence should be consistent with baseline data previously collected and include any metals of concern or interest;	No Change
Incinerator means the controlled-air, batch, dual chamber incinerator at the MLA or the Goose Property as described in the "Incineration Management Plan"~~ dated October 2017~~;	Updated
Initial Infrastructure means all Project facilities and infrastructure not directly related to the open pit mines or underground mines that is not existing or under construction as of the date this Licence was issued. This includes facilities for water management, waste management, milling, mine operations, fuel storage, and materials handling;	No Change
Inspector means an Inspector designated by the Minister under section 85 (1) of the Act;	No Change

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Interconnection Winter Ice Road means the annual temporary winter ice road, ~~and~~ associated water crossings and subbase upgrades and specified quarry and borrow sources locations intended to provide a seasonal transportation route between the Marine Laydown Area and the Goose Property as generally described in the Application;	Updated
Interim Closure and Reclamation Plan means a conceptual detailed plan addressing the Reclamation of mine components which will not be closed until the end of the mining operations, and operational detail for components which are to be progressively reclaimed throughout the mine life;	No Change
Landfarm means the facilities designed to remediate hydrocarbon contaminated soils located at the Goose Property and the Marine Laydown Area as generally described in the Application;	No Change
Landfill means the facility designed to contain non-salvageable, non-organic, non-hazardous solid waste from mining activities that cannot be incinerated located at the Goose Property as generally described in the Application;	No Change
Licence means this Type "A" Water Licence 2AM-BRP1831, issued by the Nunavut Water Board in accordance with the Act, to Sabina Gold & Silver Corp. (Sabina) for the Back River Project;	No Change
Licensee means the entity to whom the Licence is issued or to whom the Licence is subsequently assigned;	No Change
Llama Open Pit means the open pit located ~~within the footprint of~~below Llama Lake named the Llama Open Pit and all directly related infrastructure as generally described in the Application. The Llama Open Pit is generally located above the Llama Underground works;	Updated
Llama Reservoir means the waterbody at Closure that fills the Llama Open Pit and the previous Llama Lake;	No Change
Llama Underground means the underground works located ~~within the footprint of~~generally below Llama Lake named the Llama Underground and all directly related infrastructure as generally described in the Application. The Llama Underground is generally located below the Llama Open Pit;	Updated
Marine Laydown Area (MLA) means the Project area on the southwest shore of Bathurst Inlet intended to act as a connection to marine transport, as generally described in the Application;	No Change
MLA Shoreline Pad means a rockfill pad to accommodate offloading facilities at the MLA, as generally described in the Application;	New
MLA Water Supply Facilities means the facilities at the MLA designed to provide potable, construction, and industrial water as generally described in the Application. This includes temporary pumps and transportable tanks for withdrawal of water from MLA Pond S1, Pond S2, Lake 3 and Lake 4; and the desalination plant, marine water intake, and marine water discharge;	No Change
MLA Waste Management Facilities means the facilities at the MLA designed to sort and manage wastes such that combustible wastes are incinerated, Hazardous Wastes are stored prior to shipping South to an approved waste management facility, and non-combustible waste is sorted and/or stored prior to either shipping South to an approved waste management facility or shipping to the Goose Property for disposal in an approved Landfill, as generally described in the Application;	No Change
MLA Wastewater Treatment Facilities means facilities at the MLA designed to reduce the TSS of greywater prior to discharge to land as generally described in the Application. No sewage is treated at the MLA;	No Change

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Maximum Average Concentration means the average concentration of any four consecutively collected samples taken from the identical sampling location and taken during any given timeframe;	No Change
Maximum Monthly Mean means the average concentration of all samples collected over a thirty-day period from the identical sampling location;	No Change
Metal Leaching means the mobilization of metals into solution under neutral, acidic or alkaline conditions;	No Change
Minister means the Minister of Crown-Indigenous Relations and Northern Affairs Canada (CIRNAC, formerly the Minister of Indigenous and Northern Affairs Canada);	No Change
Modification means an alteration to a physical work that introduces a new structure or eliminates an existing structure and does not alter the purpose or function of the work;	No Change
Monitoring Program means the program to collect data on surface water and Ground Water quality to assess impacts to the environment of an appurtenant Undertaking;	No Change
Monthly means, in the context of monitoring frequency, one sampling event occurring every thirty (30) days with a minimum of twenty one (21) days between sampling events;	No Change
Non-Contact Water means the runoff originating from areas unaffected by mining activity that does not come into contact with developed areas;	No Change
Nunavut Agreement means the "*Agreement Between the Inuit of the Nunavut Settlement Area and Her Majesty the Queen in Right of Canada*," including its preamble and schedules, and any amendments to that agreement made pursuant to it;	No Change
Operations means the set of activities associated with mining, ore processing and recovery of gold; excluding Construction, decommissioning and permanent Closure activities;	No Change
Operations Phase means the period of time when the Project is producing gold. This phase is preceded by the Construction Phase and followed by the Closure Phase;	No Change
Operations Phase Stage(s)~~1~~ ~~means the period of time when the Project is producing gold and tailings deposit is occurring in the Tailings Storage Facility;~~means the set of activities associated with mining, ore processing and recovery of gold; excluding Construction, decommissioning and permanent Closure activities;	Updated
~~Operations Phase Stage 2~~ ~~means the period of time when the Project is producing gold and tailings deposit is occurring in the Umwelt Tailings Facility;~~	Delete
~~Operations Phase Stage 3~~ ~~means the period of time when the Project is producing gold and tailings deposit is occurring in the Goose Main Tailings Facility;~~	Delete
Operator means the person who operates, has control or custody of, or is in charge of a mine or recognized closed mine;	No Change
Ore Stockpile means a pile of mined ore placed at an underground mine laydown area or adjacent to the plant for later processing through the plant;	No Change

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Plant Site Pond means the contact water pond located near the Plant Site Pad designed to be a gathering point for contact water from the Goose Property mine infrastructure including the Ore Stockpiles as generally described in the Application;	New
Post-Closure Phase means that period of time after the Closure Phase where confirmatory water quality, stability, aquatic effects, and ecosystem monitoring is conducted in order to ensure closure objectives have been met. The Post-Closure Phase is not within the scope of this Licence;	No Change
Primary Water Pond means the contact water pond located between the Llama WRSA and Umwelt WRSA designed to be a gathering point for contact water from the Goose Property mine infrastructure including WRSA(s), Ore Stockpiles, and open pits, as generally described in the Application;	No Change
Progressive Reclamation means actions that can be taken during mining operations before permanent Closure, to take advantage of cost and operating efficiencies by using the resources available from mine operations to reduce the overall reclamation costs incurred. It enhances environmental protection and shortens the timeframe for achieving the final Reclamation objectives and goals;	No Change
Project means the Back River Project as outlined in the Final Environmental Impact Statement and supplemental information submitted by Sabina Gold & Silver Corp. (Sabina) to the Nunavut Impact Review Board (NIRB) as well as the associated Water Licence Application, Supporting Documents, and Technical Meeting Information Supplement documents submitted by Sabina to the NWB throughout the regulatory process;	No Change
Quarry or Quarries means the areas of surface excavation for extracting rock material for use as construction materials in the development of infrastructure and facilities;	No Change
Quality Assurance/Quality Control (QA/QC) Quality Assurance means the system of activities designed to better ensure that quality control is done effectively; Quality Control means the use of established procedures to achieve standards of measurement for the three principle components of quality: precision, accuracy and reliability;	No Change
Rascal Stream Connectivity means the facilities designed to convey connectivity between Goose Lake and Rascal Lake via Rascal Stream as generally described in the Application;	New
Receiving Environment means both the aquatic and terrestrial environments that receive any discharge resulting from the Project;	No Change
Reclaim Water means contact water, treated effluent, treated sewage, and ~~t~~Tailings Storage Facility or Tailings Facilities supernatant that is used in the ~~Mill~~ process plant or other treatment systems to offset intake of fresh water from the environment for the same use;	Updated
Reclamation means the process of returning a disturbed site to its natural state or one for other productive uses that prevents or minimizes any adverse effects on the environment or threats to human health and safety;	No Change
Recognized Closed Mine means a recognized closed mine as defined in the *Metal and Diamond Mining Effluent Regulations,* SOR/2002-222 (as may be amended from time to time);	No Change
Regulations means the Nunavut Waters Regulations, SOR/2013-69;	No Change

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Remediation means the removal, reduction, or neutralization of substances, wastes or hazardous material from a site in order to prevent or minimize any adverse effects on the environment and public safety now or in the future;	No Change
Reservoir means the waterbody at closure that fills an open pit that acts as a water management facility;	New
Saline Water Pond means the facilities designed to store saline water (groundwater) at the site of the dewatered Umwelt Lake and the berms, dams, dykes intended to increase the capacity of the dewatered lake, as generally described in the Application;	No Change
Saline Water Storage means the facilities designed to store saline water (groundwater) including the Saline Water Pond, Reservoirs, Tailing Storage Facilities, Tailings Facilities, other surface ponds, and various mined out underground works, as generally described in the Application;	Updated
Secondary Containment means an impermeable structure, external to and separate from primary containment, which prevents unplanned spills of hazardous materials and provides a minimum capacity of 110% of the original vessel. Where multiple vessels are stored within the containment, it must provide a minimum capacity equal to the sum of the largest vessel and 10% of the aggregate volume of all other vessels located in the containment. This structure shall also provide containment and control of hoses and nozzles;	No Change
Seepage means any water that drains through or escapes from any structure designed to contain, withhold, divert or retain water or waste. Seepage also includes any flows that have emerged through open pits, runoff from Waste Rock Storage Areas, ore stockpile areas, quarries, Landfill or Landfarm areas;	No Change
Sewage means all toilet wastes and greywater;	No Change
Sewage Treatment Plant means the package sewage treatment plant located at the Goose Property Plant Site as described in the Application document entitled *Landfill and Waste Management Plan* ~~dated October 2017~~;	Updated
Short Term Maximum means the maximum concentration of all samples collected over a 24 hour period, or less, taken from the identical sampling location;	No Change
Soil Quality Remediation Objectives (SQRO's) means the numerical concentration established as target value for soil quality remediation for contaminated sites as determined with guidance provided by the *Canadian Council of Ministers of the Environment (CCME)*;	No Change
Sump means a structure or depression that collects, controls, and filters liquid waste before it is released to the environment. This structure should be designed to prevent erosion while allowing percolation of liquid waste;	No Change
Tailings Facility means an open pit that is utilized to store tailings, waste rock, and/or acts as a water management facility ~~as generally described in the Application;~~(i.e., Llama, Umwelt, Echo, Goose Main);	Updated
Tailings Storage Facility means the purpose-built above ground facility designed to store tailings, waste rock and/or act as a water management facility as generally described in the Application;	No Change
Traditional Knowledge means the practical knowledge that has been gathered through the experience of living in close contact with nature and has been passed along or communicated orally, and handed down from generation to generation;	No Change

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Umwelt Open Pit means the open pit located adjacent to Umwelt Lake named the Umwelt Open Pit and all directly related infrastructure as generally described in the Application. The Umwelt Open Pit is generally located above the Umwelt Underground works;	No Change
Umwelt Reservoir means the waterbody at closure that fills the Umwelt Open Pit;	New
Umwelt Underground means the underground works located adjacent to Umwelt Lake named the Umwelt Underground and all directly related infrastructure as generally described in the Application. The Umwelt Underground is generally located below the Umwelt Open Pit;	No Change
Undertaking or Undertakings means an undertaking or undertakings in respect of which Water is to be used or Waste is to be deposited, as classified in Schedule 1 of the *Regulations*;	No Change
Use means use as defined in section 4 of the *Act*;	No Change
Waste means waste as defined in section 4 of the *Act*;	No Change
Waste Disposal Facilities means all facilities designated for the disposal of waste including: Goose Property Sewage Treatment Plant, Water Treatment Plant, Landfill, and Waste Rock Storage Area(s), Hazardous Waste Management Areas, Tailings Storage Facility, Tailings Facilities; Incinerators, as generally described in the Application;	No Change
Waste Rock means all unprocessed rock materials that are or were produced as a result of mining operations and that have no current economic value;	No Change
Waste Rock Storage Area(s) means facilities designed for the storage of Waste Rock and management of runoff and seepage from the Waste Rock;	No Change
Wastewater means the water generated by site activities or that originates on-site and that requires treatment or any other water management activity;	No Change
Water Treatment Plant means the facilities designed for the reduction of TSS (and other treatments if necessary) in dewatering water ~~early in the Project~~ and/or for reduction of TSS and metals in ~~athe Goose Main~~ Tailings Facility, Tailings Storage Facility or Reservoir ~~later in the Project~~;	Updated
Water means water as defined in section 4 of the *Act*;	No Change
Weekly means, in the context of monitoring frequency, one sampling event occurring every 7 days with a minimum of 5 days between sampling events;	No Change
Winter Ice Road Service/Emergency Camps means the camps located adjacent to the WIR to support construction, operation, or maintenance, and provide emergency shelter described in the Application;	New
Winter Ice Road means a road constructed of snow or ice over land or Water, and may include subbase upgrades, as generally described in the Application.	Updated

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SCHEDULE B: GENERAL CONDITIONS		
The Annual Report referred to in Part B, Item 2, shall include:		
1.	For the dikes, dams and structures constructed to withhold water or waste: a. An overview of methods and frequency used to monitor deformations, Seepage and geothermal responses; b. A comparison of measured versus predicted performance; c. A discussion of any unanticipated observations including changes in risk and mitigation measures implemented to reduce risk; d. As-built drawings of all mitigation works undertaken; e. Any changes in the design and/or as-built condition and respective consequences of any changes to safety, water balance and water quality; f. Data collected from instrumentation used to monitor earthworks and an interpretation of that data; g. A summary of maintenance work undertaken as a result of settlement or deformation of dikes and dams; and h. The monthly and annual quantities of Seepage from dikes and dams in cubic metres.	No Change
2.	Monthly and annual volume of fresh Water obtained from all sources.	No Change
3.	Summary of Interconnection Winter Ice Road plans implemented in accordance with Part E, Item 13.	No Change
4.	Summary of Dewatering Plans implemented in accordance with Part E, Item 14.	No Change
5.	Summary update to the Water and Load Balance results, if any, including an annual comparison of measured groundwater inflow rates to model predictions.	Updated
6.	Geochemical monitoring results including: a. Operational acid/base accounting and associated test work used for Waste Rock designation (PAG and NPAG rock); b. As-built volumes of Waste Rock used in construction and placed in the Waste Rock Storage Areas with estimated balance of acid generation to acid neutralization capacity in a given sample as well as metal toxicity; c. All monitoring data with respect to geochemical analyses on site and related to roads and quarries; d. Any Leaching observations and tests collected on pit slope and dike exposure; and e. Any geochemical outcomes or observations that could imply or lead to environmental impact.	No Change
7.	Volumes of ore stockpiled.	No Change
8.	Summary of quantities and analysis of Seepage and runoff monitoring from the Tailings Storage Facility, Waste Rock Storage Areas, Landfill(s) and associated dikes/berms.	No Change
9.	A summary report of all general Waste disposal activities including monthly and annual quantities in cubic metres of Waste generated and location of disposal.	No Change
10.	Reporting of Incinerator test results including the materials burned and the efficiency of the Incinerator in relation to effects on Water and the potential Deposit of Waste into Water.	No Change
11.	A list and description of all unauthorized discharges including volumes, spill report line identification number and summaries of follow-up action taken.	No Change
12.	A summary of Modifications and/or major maintenance work carried out on all Water and Waste-related structures and facilities.	No Change
13.	The results and interpretation of the Monitoring Program in accordance with Part I and Schedule I.	No Change
14.	The results of monitoring related to the General and Aquatic Effects Monitoring Program in accordance with Part I Item 1.	No Change
15.	A summary of any progressive Closure and Reclamation work undertaken, including photographic records of site conditions before and after completion of operations, and an outline of any work anticipated for the next year, including any changes to implementation and scheduling.	No Change

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16.	An updated estimate of the current reclamation liability based on Project development monitoring, results of restoration research and any changes or modifications to the Appurtenant Undertaking.	No Change
17.	A summary of any studies requested by the Board that relate to Water use, Waste disposal or Reclamation, and a brief description of any future studies planned.	No Change
18.	Where applicable, revisions as Addenda, with an indication of where changes have been made, for plans, reports, and manuals.	No Change
19.	An executive summary in English, Inuktitut, and Inuinnaqtun of all plans, reports, or studies conducted under this Licence.	No Change
20.	A summary of actions taken to address concerns or deficiencies listed in the inspection reports and/or compliance reports filed by an Inspector.	No Change
21.	A summary of public consultation and participation with local organizations and the residents of the nearby communities, including a schedule of upcoming community events and information sessions.	No Change
22.	Any other details on Water use or Waste disposal requested by the Board by November 1st of the year being reported.	No Change
SCHEDULE D: CONDITIONS APPLYING TO CONSTRUCTION		
1.	The Construction Summary Report referred to in Part D Item 11 shall include: a All final design and construction drawings (must be stamped and signed by a Professional Engineer when related to an Engineered Structure). b Site specific data and analysis, including Geochemical analysis of waste rocks and fills, demonstrating their Non Acid Rock Drainage and Non Metal Leaching characteristics, to support the design and management decisions; c A summary of construction activities including photographic records before, during and after construction; d As-built drawings: e Documentation and detailed explanation of field decisions reflecting any deviations from original construction drawings and plans, and how such deviations may affect performance of engineered structures; f Discussion of mitigation measures implemented during construction and effectiveness of measures taken; g Monitoring undertaken in compliance with Part D and/or Part J of the Licence; h Blast vibration monitoring for quarrying activities carried out in close proximity to fish bearing waters; i Monitoring for sediment release from construction areas; and j Monitoring and reporting on use of Water to manage dust emissions from crushing and construction activity.	No change

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SCHEDULE I: CONDITIONS APPLYING TO GENERAL AND AQUATIC EFFECTS MONITORING

TABLE 1 - MONITORING GROUP

Group Code	Group Descriptor	Parameters	
A	Field Chemistry	pH, specific conductivity, and temperature.	No Change
B	Flow	Flow datalogger, calculated volume	No Change
C	General Surface runoff	Total Suspended Solids (TSS), Oil and Grease, pH	No Change
D	General Chemistry	Conventional: turbidity, hardness, alkalinity, calcium, chloride, fluoride, magnesium, potassium, sodium, sulphate, total dissolved solids (measured and calculated), TSS, total cyanide, free cyanide, and weak acid dissociable (WAD) cyanide. Nutrients: ammonia, nitrate, nitrite, total phosphorus (TP), and dissolved organic carbon. Total and dissolved metals: aluminum, arsenic, barium, cadmium, chromium, copper, iron, lead, manganese, mercury, molybdenum, nickel, phosphate, selenium, silver, strontium, thallium, uranium, and zinc Other: when required, lab pH and Conductivity	No Change
E	Secondary Containment	TSS, pH, ammonia, total arsenic, total copper, total lead, total nickel, total zinc, benzene, toluene, ethylbenzene, xylene, Oil and Grease	No Change
F	Sewage	Biochemical Oxygen Demand (5-day), TSS, Fecal coliform, ammonia, phosphorus, Oil and Grease, pH	No Change
G	*MDMER* deleterious substances	TSS, total cyanide, total arsenic, total copper, total lead, total nickel, total zinc, and radium-226	No Change
H	*MDMER* toxicity	Acute toxicity (Rainbow Trout and Daphnia magna)	No Change
I	*MDMER* sublethal toxicity	Sublethal toxicity (Fathead Minnow or Rainbow Trout, Ceriodaphnia dubia, Lemna minor, Pseudokirchneriella subcapitata)	No Change
J	Discharge to Marine	Total Suspended Solids, Salinity, total metals (aluminum, arsenic, barium, cadmium, chromium, copper, iron, lead, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, thallium, uranium, and zinc), oil and grease, and lab pH	No Change
MDMER = Metal and Diamond Mining Effluent Regulations, SOR/2002-222 (as may be amended from time to time)			

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TABLE 2 – MONITORING PROGRAM

Monitoring Program Station	Monitoring Type	Description	Mine Phase	Group Code	Frequency	
BRP-G-01 To BRP-G-TBD	Regulated Monitoring	**General Site Runoff** Surficial runoff anywhere at both Goose Property and MLA, including quarries; monitoring for erosion and sedimentation.	Construction	C	Weekly if flow enters a waterbody	No Change
BRP-S-01 to BRP-S-TBD	General Monitoring	**General Seeps** Seepage or runoff from excavated and/or stockpiled material anywhere at both Goose Property and MLA, including quarries, that does not gather into a collection system or the site is reclaimed.	Construction and Operations	A, D	Monthly during flow, or as found	No Change
BRP-01	Regulated Monitoring	**Goose Lake Discharge** (discharge point for release of dewatering effluent with or without treatment)	Construction	A, B, G	Weekly during dewatering	Location Updated
				D	Four times during dewatering, at the same time as the weekly samples	
				H	Once per month during dewatering, at the same time as Group D	
				I	One time during dewatering, at the same time as Group D	
BRP-02	General Monitoring	**Llama Lake** (intake point for dewatering, triggers need for treatment prior to discharge at BRP-01)	Construction	C (TSS only)	Weekly if treatment is required; no sample if treatment is not required	No Change
BRP-03	Verification Monitoring	**Llama Pit** (representative of collected pit water prior to transfer to tailings management facility)	Operations ~~Stage 1 to Operations Stage 2~~	A, G	At Licensee's discretion	Updated
BRP-04	General Monitoring	**Llama Pit Lake** (representative of flooded pit during flooding and before overflow to the downstream environment)	Closure* to Post-Closure*	A, D	Twice per year	No Change
BRP-05	Verification Monitoring	**Llama WRSA Pond** (representative of collected water quality)	Operations ~~Stage 1~~ to Closure*	A, G	At Licensee's discretion	Updated

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BRP-06	General Monitoring	**Umwelt Lake** (intake point for dewatering, triggers need for treatment prior to discharge at BRP-01)	Construction	C (TSS only)	Weekly if treatment is required; no sample if treatment is not required	No Change
BRP-07	Verification Monitoring	**Umwelt Pit** (representative of collected pit water prior to transfer to tailings management facility)	Construction to Operations ~~Stage 2~~	A, G	At Licensee's discretion	Updated
BRP-08	General Monitoring	**Umwelt Pit Lake** (representative of flooded pit during flooding and before overflow to the downstream environment)	Closure to Post-Closure*	A, D	Twice per year	No Change
BRP-09	Verification Monitoring	**Umwelt WRSA Pond** (representative of collected water quality, including landfill seepage/runoff)	Construction to Closure (early)*	A, G	At Licensee's discretion	Inactive
BRP-10	Verification Monitoring	**Primary Water Pond** (representative of collected water quality)	Construction to Closure (early)*	A, D	At Licensee's discretion	No Change
BRP-11	Verification Monitoring	**Saline Water Pond** (representative of stored water quality)	Construction (late) to Closure (early)*	A, D	At Licensee's discretion	No Change
BRP-12	General Monitoring	**Big Lake Intake** (intake point for potable and industrial water withdrawal)	Construction to Closure*	A, D	Four times per year	No Change
				B	Weekly	
BRP-13	Verification Monitoring	~~**Ore Stockpile**~~**Plant Site Pond** (representative of collected water quality)	Construction to Closure (early)*	A, D	At Licensee's discretion	Updated
BRP-14	Verification Monitoring	**ANFO Plant** (representative of collected water quality)	Construction to Closure*	A, E	At Licensee's discretion	No Change
BRP-15	Regulated Monitoring	**Goose Fuel Tank Farm** (representative of collected water quality)	Construction to Closure*	A, E	Prior to discharge or transfer of water	Location Updated
BRP-16	Regulated Monitoring	**Goose Hazardous Waste Management Area** (representative of collected water quality)	Construction to Closure*	A, E	Prior to discharge or transfer of water	Location Updated
BRP-17	Regulated Monitoring	**Goose Property Sewage Treatment Plant** (discharge point for treated sewage onto land)	Construction to Closure*	A, F	Prior to discharge	Location Updated
BRP-17A	Regulated Monitoring	**Goose Property Sewage Treatment Plant** (discharge point for treated sewage into Tailings Storage Facility or Tailing Facility)	Construction to Closure*	A, F	Prior to discharge	No Change
BRP-18	General Monitoring	**Llama Watershed Outflow** (representative of non-contact water, PN04 from *Water and Load Balance*)	Operations ~~Stage 1 to~~ Closure*	A, D	Once during freshet, and monthly during	Updated

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					upstream construction while visible flow is present at the stations	
BRP-19	General Monitoring	**Echo Outflow** (representative of non-contact water). PN09 from water and load balance	Operations ~~Stage 1~~ to Closure*	A, D	Once during freshet, and monthly during upstream construction while visible flow is present at the stations	Updated
BRP-20	Verification Monitoring	**Echo Pit** (representative of collected pit water prior to transfer to tailings management facility)	Operations ~~Stage 2~~	A, G	At Licensee's discretion	Updated
BRP-21	General Monitoring	**Echo Pit Lake** (representative of flooded pit during flooding and before overflow to the downstream environment)	Closure* to Post-Closure*	A, D	Twice per year	No Change
BRP-22	Verification Monitoring	**Echo WRSA Pond** (representative of collected water quality)	Operations ~~Stage 2~~ to Closure (early)*	A, G	At Licensee's discretion	Updated
BRP-23	General Monitoring	**Gander Pond Outflow** (representative of non-contact water, PN07 from *Water and Load Balance*)	Operations ~~Stage 1~~ to Closure*	A, D	Once during freshet, and monthly during upstream construction while visible flow is present at the stations	Updated
BRP-24	General Monitoring	**Goose Lake Intake** (intake point for potable and industrial water withdrawal)	Operations ~~Stage 1~~ to Closure (early)*	B	Weekly	Location Updated
BRP-25	Verification Monitoring	**Goose Pit** (representative of collected pit water prior to transfer to tailings management facility)	Operations ~~Stage 1 to Operations Stage 2~~	A, G	At Licensee's discretion	Updated
BRP-26	General Monitoring	**Goose Pit Lake** (representative of flooded pit during flooding and before overflow to the downstream environment)	Closure* to Post-Closure*	A, D	Twice per year	No Change
BRP-27	Verification Monitoring	**Goose Main Tailings Facility** (intake point for water treatment, represents pre- treatment water quality)	Operations ~~Stage 3~~ to Closure*	A, G	At Licensee's discretion	Updated
BRP-28	Verification Monitoring	**Goose Main Tailings Facility** (discharge point for water treatment, represents post-treatment water quality)	Operations ~~Stage 3~~ to Closure*	A, G	At Licensee's discretion	Updated
BRP-29	Verification	**TSF WRSA Pond** (representative of collected	Operations ~~Stage 1~~ to	A, G	At Licensee's	Updated

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	Monitoring	water quality, including landfill seepage/runoff)	Closure*		discretion	
BRP-30	General Monitoring	**Goose Southeast Inflow** (representative of non-contact water, PN06 from *Water and Load Balance*)	Operations ~~Stage 1~~ to Closure*	A, D	Once during freshet	Updated
BRP-40	General Monitoring	**Bathurst Inlet Intake** (intake point in marine environment for potable and industrial water withdrawal)	Construction to Closure*	A, D	At Licensee's discretion	No Change
				B	At Licensee's discretion	
BRP-41	General Monitoring	**Bathurst Inlet Discharge** (discharge point in marine environment for effluent from desalinization plant)	Construction to Closure*	A, J	At Licensee's discretion	No Change
BRP-42[a]	Regulated Monitoring	**MLA Greywater**[a] ~~(discharge point for treated greywater onto land)~~(representative drainage at point of entry to the marine receiving environment)	Construction to Closure*	A, F	Monthly when discharging	No Change
BRP-43	Regulated Monitoring	**MLA Fuel Tank Farm** (representative of collected water quality)	Construction to Closure*	A, E	Prior to discharge or transfer of water	No Change
BRP-44	Regulated Monitoring	**MLA Landfarm** (representative of collected water quality)	Construction to Closure*	A, E	Prior to discharge or transfer of water	Location Updated
BRP-45	Regulated Monitoring	**MLA Hazardous Waste Management Area** (representative of collected water quality)	Construction to Closure*	A, E	Prior to discharge or transfer of water	Location Updated
BRP-49	Regulated Monitoring	**MLA Temporary Fuel Storage Facility** (representative of collected water quality)	Construction	A, E	Prior to discharge or transfer of water	No Change
BRP-51	Regulated Monitoring	**Goose Landfarm** (representative of collected water quality)	Construction to Closure*	A, E	Prior to discharge or transfer of water	No Change
BRP-52	General Monitoring	**MLA Pond S1** (intake point for potable and industrial water withdrawal)	Construction to Closure*	A, D	Once per quarter when in use	No Change
				B	Weekly when in use	
BRP-53	General Monitoring	**MLA Pond S2** (intake point for potable and industrial water withdrawal)	Construction to Closure*	A, D	Once per quarter when in use	No Change
BRP-54	General Monitoring	**MLA Lake 3** (intake point for potable and industrial water withdrawal)	Construction to Closure*	A, D	Once per quarter when in use	No Change
				B	Weekly when in use	
BRP-55	General Monitoring	**MLA Lake 4** (intake point for potable and industrial water withdrawal)	Construction to Closure*	A, D	Once per quarter when in use	No Change
				B	Weekly when in	

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					use	
BRP-56	General Monitoring	**Llama Tailings Facility** (collected at "inlet" to treatment facility Pre-treatment quality)	Operations to Closure	A, G	At Licensee's discretion	New
BRP-57	General Monitoring	**Llama Tailings Facility** (after treatment; collected at "outlet" of treatment facility; no discharge to the receiving environment Post-treatment quality to confirm treatment efficiency)	Operations to Closure	A, G	At Licensee's discretion	New
BRP-58a to BRP-58xx TBD	Regulated Monitoring	**Final Discharge Point Goose Lake**				Pending consideration of MDMER and Mixing Zone definition.
BRP-I-01 to BRP-I-TBD	General Monitoring	**Interconnection Winter Ice Road Proximal Water Bodies** (intake points for fresh water used in the construction of the Interconnection Winter Ice Road and WIR Service/Emergency Camps)	Construction to Closure*	B	Weekly when in use	Updated
Notes: ***** - The term of this Licence does not include the Closure Phase (either early or late closure) or Post-Closure Phase. Closure and Post-Closure monitoring information is provided for discussion only; a - Monitoring Program Station BRP-49 will no longer be active once the MLA Fuel Tank Farm is operational and the MLA Temporary Fuel Storage Facility has been decommissioned and removed. [a] Amendment confirmed by NWB on 19 September 2019 - NWB approved these modifications through the Board Motion No. 2019-A1-007, dated September 18, 2019, as required by Part G, Item 2 of the Licence.						

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Attachment FS-B: SSWQO Derivation Documents

Support Sabina response to KIA-TC-01 Part 2

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EKATI Diamond Mine

Site-Specific Water Quality Objective for Nitrate, 2012

April 2012

EKATI DIAMOND MINE

SITE-SPECIFIC WATER QUALITY OBJECTIVE FOR NITRATE, 2012

April 2012
Project #648-116-01

Citation:
Rescan. 2012. *EKATI Diamond Mine: Site-Specific Water Quality Objective for Nitrate, 2012*. Prepared for BHP Billiton Canada Inc. by Rescan Environmental Services Ltd.: Yellowknife, Northwest Territories.

Prepared for:

BHP Billiton Canada Inc.

Prepared by:

Rescan™ Environmental Services Ltd.
Yellowknife, Northwest Territories

Executive Summary

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Executive Summary

A site specific water quality objective (SSWQO) was developed for nitrate based on chronic toxicity test data that were available in the literature and from a recent investigation conducted by Nautilus Environmental (2011a and 2011b) on the effect that water hardness has on the toxicity of nitrate.

Acceptable toxicity data were available for: one green algal species (*Pseudokirchneriella subcapitata*); four invertebrates, including two zooplankton (*Ceriodaphnia dubia* and *Daphnia magna*), one epibenthic amphipod (*Hyalella azteca*), and one benthic midge larva (*Chironomus dilutus*); and four fish, two salmonids (*Oncorhynchus mykiss* and *Salvelinus namaycush*), and two non-salmonids (*Pimephales promelas* and *Notropis topeka*). These data met the CCME requirements for establishing a Type A water quality guideline using a Species Sensitivity Distribution (SSD).

The relationship between water hardness and chronic toxicity has been established for four species, each of which was represented in the SSD. The slope of the relationship between water hardness and toxicity was pooled for these four species to establish a slope that could be used to adjust the toxicity data on the basis of the hardness that the test was conducted under. The approach used for hardness correction followed procedures used by the US EPA for incorporating water hardness into water quality benchmarks for metals requiring such adjustment. The pooled slope was 0.9512, which was used to adjust the toxicity data to a common hardness.

The SSD of the hardness-normalized toxicity data was evaluated using five distributions (Fisher Tippett, normal, logistic, Weibull and Gompertz), and the logistic regression was selected as the most appropriate fit. This distribution resulted in an HC_5, which is the concentration that is considered to be protective of at least 95% of species, of 6.5 mg/L NO_3-N at a hardness of 60 mg/L. In August 2011 water hardness in lakes downstream of the Long Lake Containment Facility (Leslie, Moose, Nema and Slipper lakes, and two stations in Lac de Gras) ranged between 7.1 mg/L and 139 mg/L (average 60.9 mg/L).

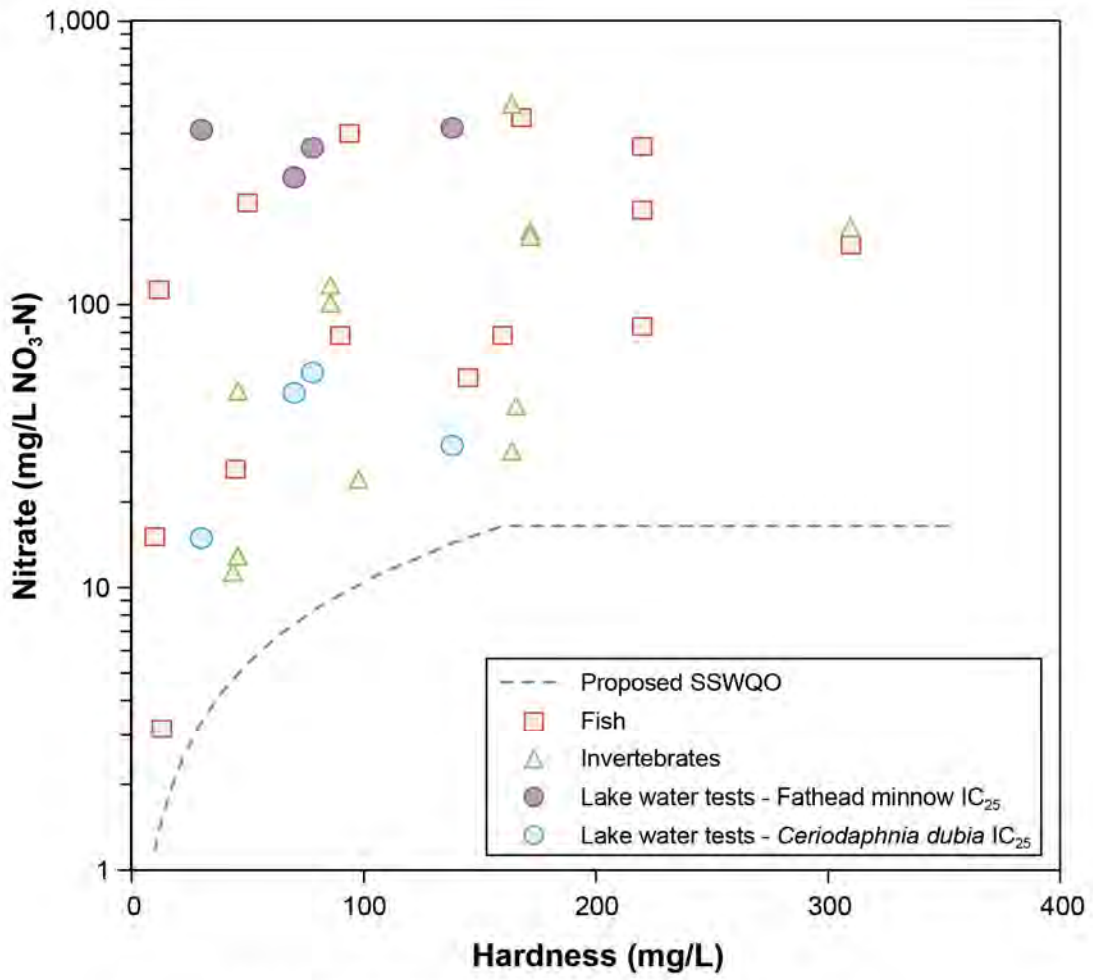
After incorporation of the pooled slope, the final equation for the SSWQO was as follows:

$$WQO = e^{(0.9518 \times \ln(\text{hardness}) - 2.032)}$$

The relationship between water hardness and nitrate toxicity was established across a range of water hardness values of up to approximately 160 mg/L (16.4 mg/L NO_3-N); values with hardness greater than 160 mg/L were conservatively assumed to have the same nitrate values as determined for that water hardness. Figure 1 shows the proposed SSWQO across a range of hardness values (levelling off after 160 mg/L water hardness), as well as toxicity data that were considered primary or secondary quality, tested at water hardness values ranging from 10 mg/L to 310 mg/L. All of the toxicity test thresholds fall above the proposed SSWQO, indicating that the proposed objective is conservatively protective across the full range of water hardness values.

In addition to the ensuring that the requirements for a valid SSWQO derivation were met from the toxicological database as described above, BHP Billiton conducted further site-specific confirmatory tests to increase confidence in the derivation. Tests conducted in water collected from four lakes at EKATI (Slipper, Nema, Moose and Leslie lakes) using an invertebrate (*C. dubia*) and a fish (*P. promelas*) demonstrated that the proposed SSWQO was appropriate under the conditions associated with site waters. An additional reduction in toxicity of nitrate was evident in the site waters, over-and-above that established on the basis of hardness, providing an additional level of safety associated with the proposed SSWQO. This additional protection is associated with the balance of major ions present in the site waters.

Figure 1. Proposed Site Specific Water Quality Objective (SSWQO) for Nitrate as a Function of Water Hardness and Individual Toxicity Test Results for Nitrate



Notes: Each individual point reflects the toxicity threshold from an individual test.
The SSWQO for specific hardness values are provided in Table 4.3.2 in the main text.

Acknowledgements

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Acknowledgements

This report was produced by James Elphick and Josh Baker (M.Sc.) of Nautilus Environmental, contracted by Rescan Environmental Services Ltd. (Rescan), for BHP Billiton Canada Inc. (BHP Billiton). Review was conducted by Tonia Robb (Ph.D.), Mark Whelly (M.Sc.), and Marc Wen (M.Sc.) of Rescan and by Peter M. Chapman (Ph.D.) of Golder Associates Ltd.

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EKATI DIAMOND MINE
SITE-SPECIFIC WATER QUALITY OBJECTIVE FOR NITRATE, 2011

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Abbreviations

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Abbreviations

Terminology used in this document is defined where it is first used.

AEMP	Aquatic Effects Monitoring Program
ANZECC/ARMCANZ	Australian and New Zealand Environment Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand
CCME	Canadian Council of Ministers of the Environment
EC_x	Effective Concentration estimated to cause an effect on x% of exposed organisms
ETMF	Exposure and Toxicity Modifying Factor
HC_5	Hazardous Concentration for 5% of tested species
IC_x	Inhibition Concentration estimated to cause an x% inhibitory effect (e.g., on growth or reproduction) on exposed organisms
IPS	Ideal Performance Standard
KPSF	King Pond Settling Facility
LC_{50}	Lethal Concentration to 50% of organisms tested
LLCF	Long Lake Containment Facility
LOEC	Lowest Observed Effects Concentration
NO_3-N	Nitrate, reported on the basis of nitrogen concentration
NAESI	National Agri-Environmental Standards Initiative
NOEC	No Observed Effects Concentration
MATC	Maximum Acceptable Toxicant Concentration
SNP	Surveillance Network Program
SSD	Species Sensitivity Distribution
SSWQO	Site Specific Water Quality Objective
SSWQG	Site Specific Water Quality Guideline
TMF	Toxicity Modifying Factor
US EPA	United States Environmental Protection Agency
WEMP	Wildlife Effects Monitoring Program
WER	Water Effects Ratio
WQG	Water Quality Guideline
WQO	Water Quality Objective

1. Introduction

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1. Introduction

1.1 BACKGROUND

BHP Billiton Canada Inc. (BHP Billiton) operates the EKATI Diamond Mine (EKATI) located approximately 300 km northeast of Yellowknife, Northwest Territories, Canada. The mine site is in the southern Arctic ecoregion.

BHP Billiton is committed to minimizing the impacts of EKATI on the aquatic environment, and to sustainable management of the aquatic environment. BHP Billiton developed the Aquatic Effects Monitoring Program (AEMP) to document any changes that occurred following mine construction, operation, and expansion, and to provide early warnings of environmental changes. The AEMP at EKATI is a requirement specified in BHP Billiton's Class A Water Licence (W2009L2-0001). The Water Licence outlines the regulatory requirements for water quality at EKATI. For several water quality variables there are Water Licence discharge criteria that must not be exceeded. A discharge criterion for nitrate is provided only for effluent discharge from Two-Rock Settlement Pond (Surveillance Network Program (SNP) station 0008-Sa3) located in the Horseshoe Watershed at the Sable development, which has not yet been constructed. There is no discharge criterion for nitrate in effluent discharge from the Long Lake Containment Facility (LLCF) (SNP station 1616-30) or the King Pond Settling Facility (SNP station 1616-43).

Along with discharge water quality, water quality downstream of LLCF and KPSF is also monitored. Receiving water quality is compared to generic national guidelines provided by the Canadian Council of Ministers of the Environment (CCME 2007a). These guidelines do not have any legal or regulatory standing, but are used as default receiving environment benchmarks. For some water quality variables, a site specific water quality objective (SSWQO) is appropriate and provides a modified generic guideline value to better represent local conditions and the biological community present at the site.

The Water Licence does not specify a guideline for nitrate concentrations for SNP stations 1616-30 and 1616-43. However, BHP Billiton has adopted performance standards established by Environment Canada for the agriculture industry (Guy 2008) for nitrate toxicity as part of their assessment of receiving environment quality. This benchmark is 4.7 mg/L NO_3-N, and was considered appropriate for use at EKATI since the approach taken in development of the Ideal Performance Standard (IPS) was largely consistent with current methods employed for development of Canadian water quality guidelines (WQGs), including use of a Species Sensitivity Distribution (SSD) for guideline derivation (CCME 2007b). The toxicity data used in the derivation of the IPS were also largely relevant to EKATI, with the exception that one-third of the data used in development of the IPS were for amphibians. Although amphibians are known to occur in the Northwest Territories, the EKATI area is beyond their known distribution which is generally below the tree line (ENR 2006, 2012a and 2012b). In addition, amphibians have not been observed during the wildlife effects monitoring program (WEMP) or other biological surveys at EKATI (B. Milakovic and K. Kuker personal communication). Regardless, the IPS was considered to be a conservative benchmark for monitoring the receiving environment and more relevant than the existing CCME guideline for nitrate.

The current AEMP was designed to detect effects in the EKATI receiving environment within two major watersheds (Figure 1.1-1). In the Koala Watershed, the AEMP monitors waters downstream of the LLCF, including the LLCF discharge (SNP station 1616-30), Leslie Lake, Leslie-Moose Stream, Moose Lake, Moose-Nero Stream, Nema Lake, Nema Martine Stream, Slipper Lake, Slipper-Lac de Gras Stream, and two lake monitoring sites in Lac de Gras (S2 and S3). Within the King-Cujo Watershed, the AEMP monitors water

downstream of the KPSF including the KPSF discharge (SNP station 1616-43), Cujo Lake, Cujo Outflow Stream, Christine-Lac du Sauvage Stream, and two monitoring sites in Lac du Sauvage (LdS1 and LdS2).

Nitrate concentrations in the Koala watershed have been increasing since commissioning of the mine and have periodically exceeded the water quality objective of 4.7 mg/L NO_3-N in Leslie, Moose and Nema lakes, but not in downstream water bodies (Figure 1.1-2; Appendix A). However similar increases in nitrate have not been observed in streams and lakes of the King-Cujo Watershed (Figure 1.1-3 to 1.1-5; Appendix A).

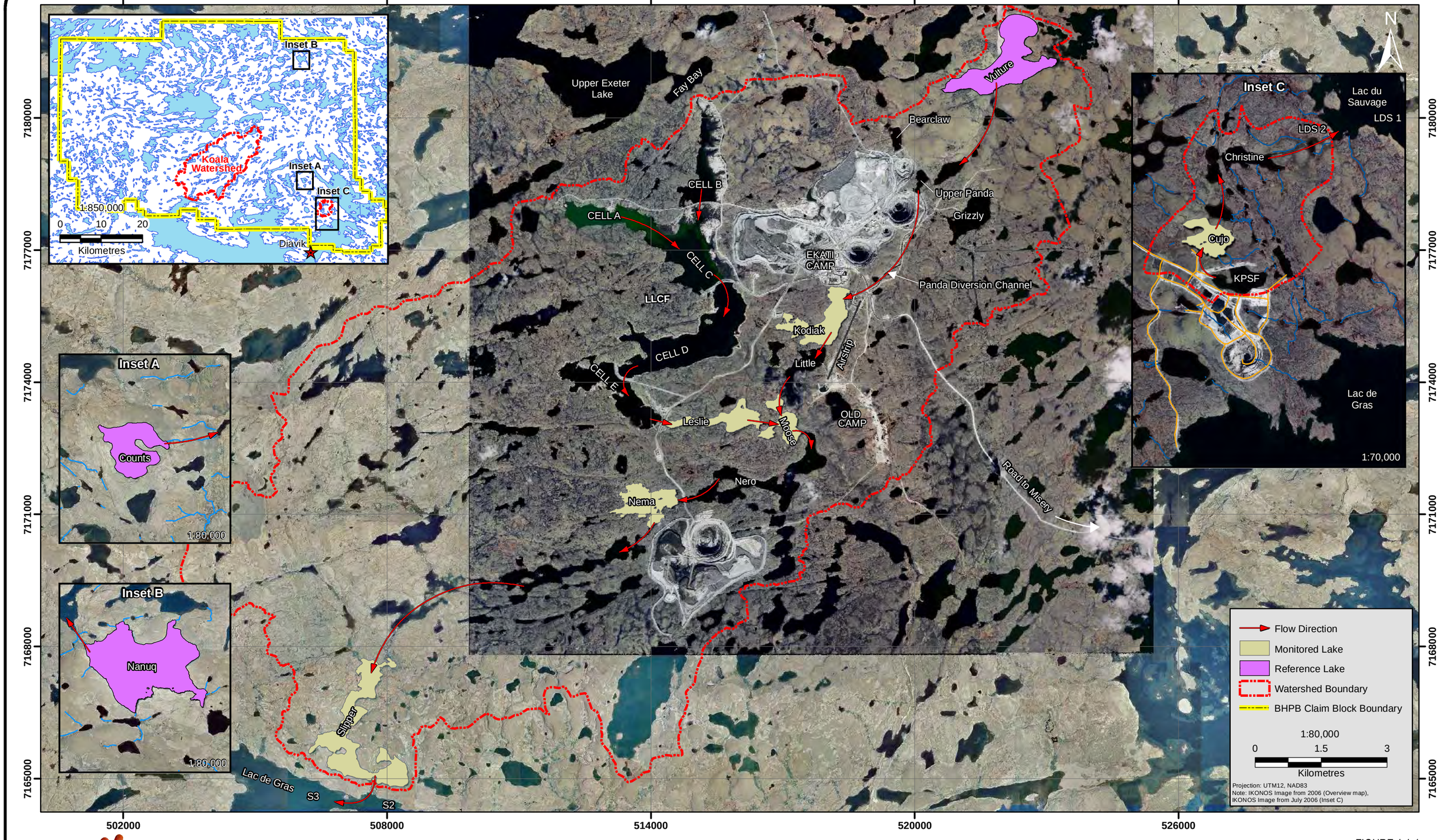
Recent investigations have established that water hardness plays an important role in modifying the chronic toxicity of anions such as sulphate and chloride (Elphick et al. 2011a and 2011b). Consequently, an investigation was conducted to establish whether water hardness also alters the toxicity of nitrate; the results of these tests have demonstrated that water hardness does indeed reduce the toxicity of nitrate (Nautilus Environmental 2011a and 2011b; Appendix B). The mechanism responsible for this effect has not been definitively established; however, it is likely that the mechanism relates either to competition between ions at passive ionic uptake sites or to effects that the hardness-related ions (i.e., calcium and/or magnesium) have on membrane permeability. The latter mechanism has its basis in osmo-regulation; under low ionic strength conditions, freshwater organisms are limited in their ability to obtain necessary ions from the surrounding media, and may open uptake channels to maximize uptake of essential nutrients, whereas under higher ionic strength conditions, the permeability of the membrane may be reduced, since the organisms have less difficulty acquiring the ions required for homeostasis. Therefore, under low hardness (ionic) conditions, ions including nitrate may have a greater chance of being taken up by organisms than under high hardness conditions when ion channels are more controlled.

The results of AEMP monitoring have indicated that water hardness has increased in water bodies downstream of the LLCF and to a lesser extent, the KPSF (Figures 1.1-2 to 1.1-5; Appendix A). A strong relationship between water hardness and nitrate concentration is observed in samples collected from Leslie, Moose, Nema, and Slipper lakes (Figure 1.1-6), particularly in cases where nitrate concentrations have approached and exceeded the current IPS water quality objective (i.e., in Leslie and Moose Lakes). Thus, any role that water hardness plays in modifying the toxicity of nitrate is highly relevant to this site.

The CCME WQG for nitrate is currently under review and a draft of the revised guideline was issued for public comment in February 2011. As part of this effort, published and otherwise available studies investigating the toxicity of nitrate in short- and long-term exposures have been reviewed by CCME and evaluated for data quality. In addition to the recent review conducted by the CCME, toxicological data for nitrate are available from a recent investigation conducted by Nautilus Environmental (2011a and 2011b); these investigations have increased the available dataset on toxicological effects associated with nitrate, as well as demonstrating the role that water hardness plays in modifying the toxicity of nitrate. In addition, a small amount of additional data were available from other investigations published subsequent to the recent review conducted by CCME and were reviewed. The availability of additional chronic toxicity data, as well as the notable effect of water hardness on toxicity of nitrate, strongly supports development of a SSWQO for nitrate that considers water hardness as a Toxicity Modifying Factor (TMF) per CCME (2007b).

1.2 NITRATE UNITS

The convention for reporting nitrate concentrations differs between jurisdictions and individual investigations, with some reporting concentrations of nitrate as NO_3 and others as nitrogen (i.e., as NO_3-N). The difference between these values corresponds to the proportionate difference between the molar mass of NO_3 (62.005 g/mol) and N (14.007 g/mol). Values reported in the present document are reported as NO_3-N, and data have been corrected, where necessary, using these molar masses (i.e., values reported as NO_3 have been divided by 4.427 and reported here as NO_3-N).



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Surface Water Flow through the EKATI AEMP Watersheds

FIGURE 1.1-1

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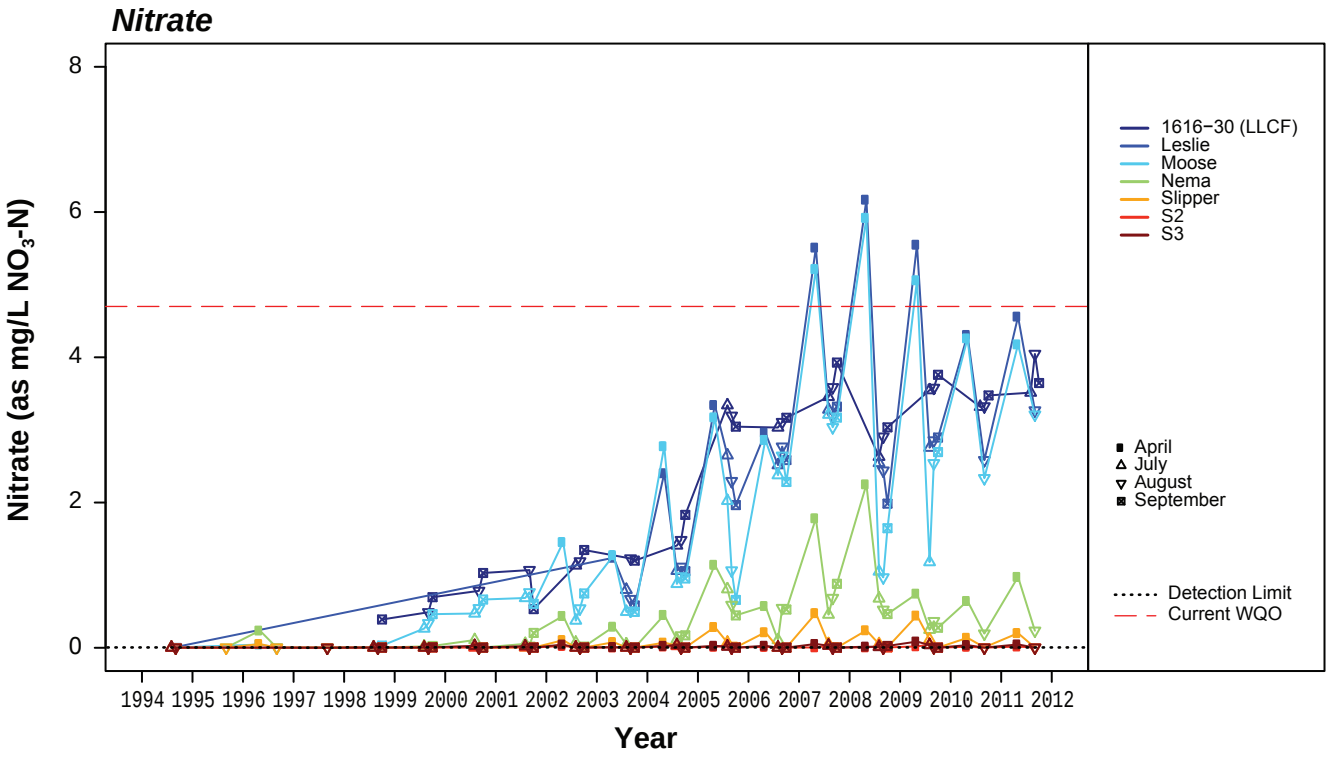

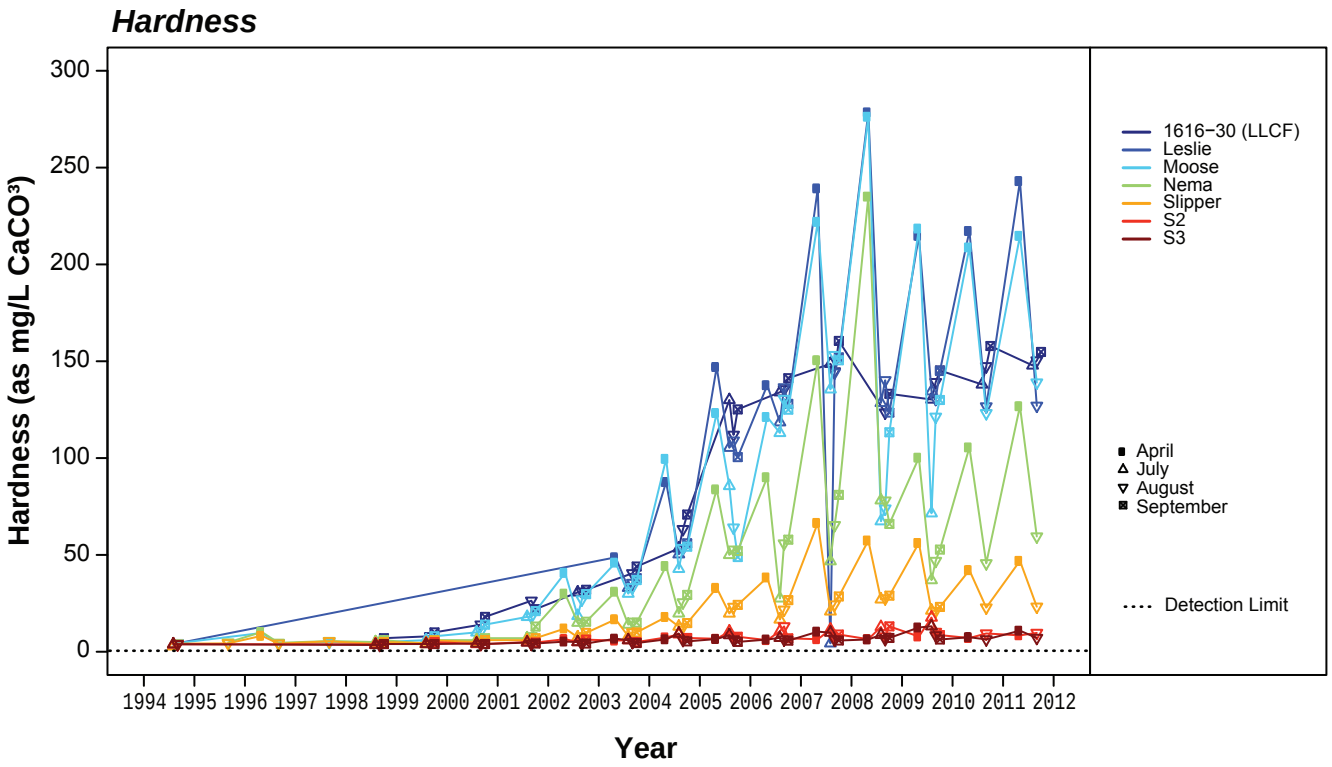

Note: The current WQO for Nitrate is 4.7 mg/L NO3-N and is based on the Ideal Performance Standard developed by Guy (2008).

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Total Nitrate and Hardness Concentrations in Water at AEMP Lake Sites of the Koala Watershed, 1994-2011

Figure 1.1-2

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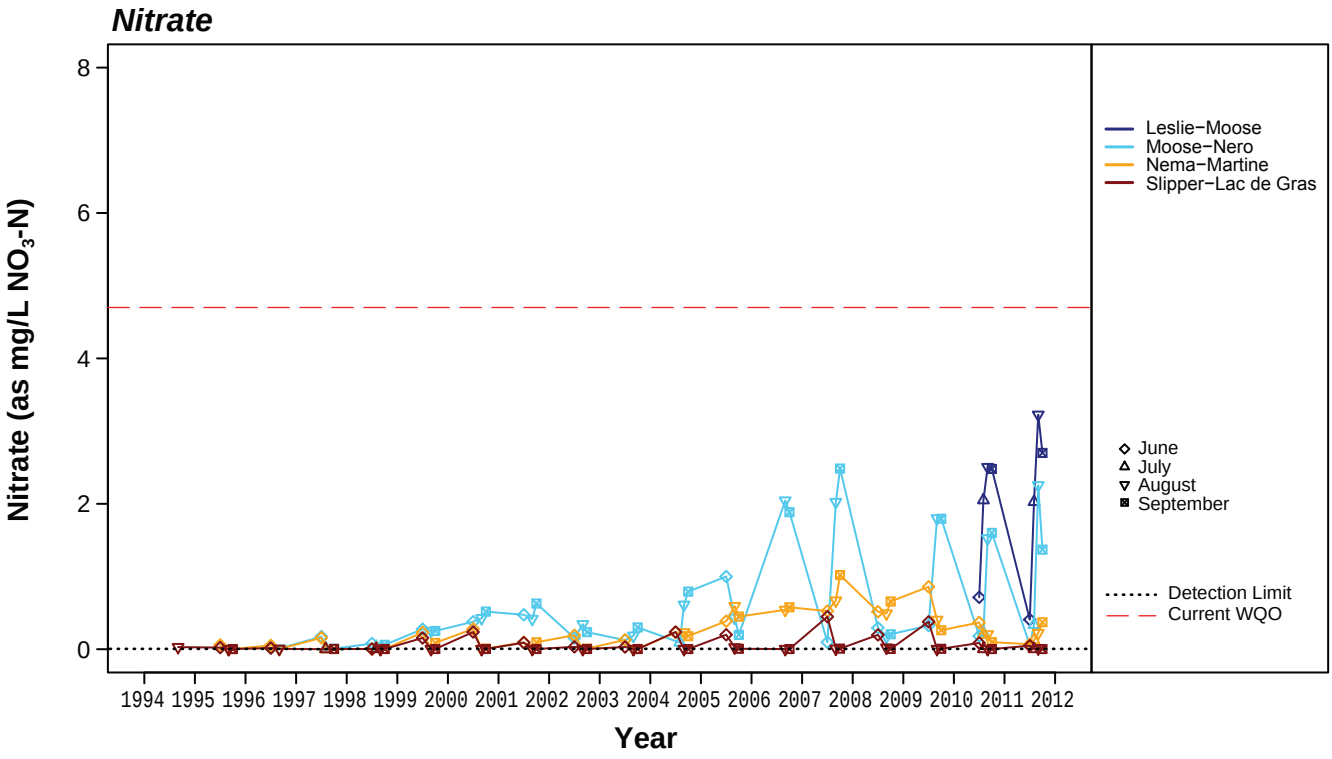

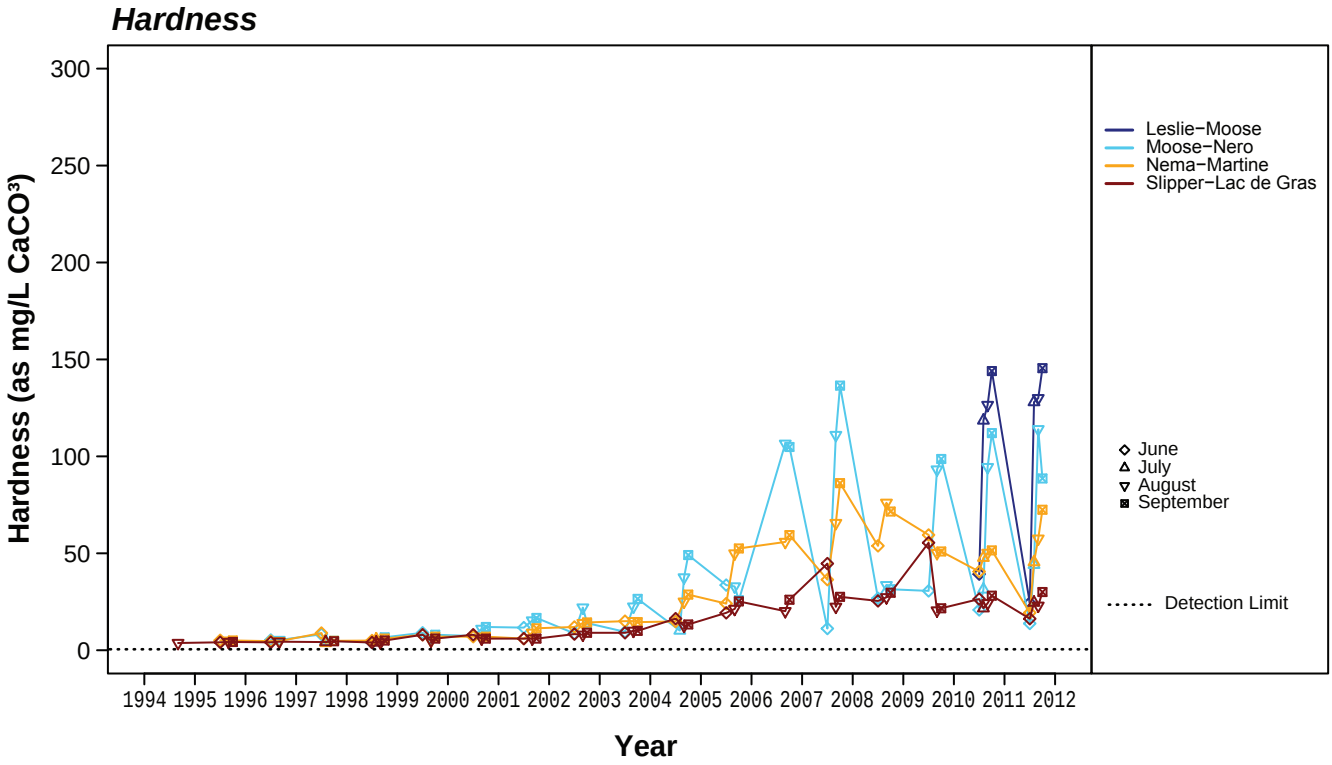

Note: The current WQO for Nitrate is 4.7 mg/L NO3-N and is based on the Ideal Performance Standard developed by Guy (2008).

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Total Nitrate and Hardness Concentrations in Water at AEMP Stream Sites of the Koala Watershed, 1994-2011

Figure 1.1-3

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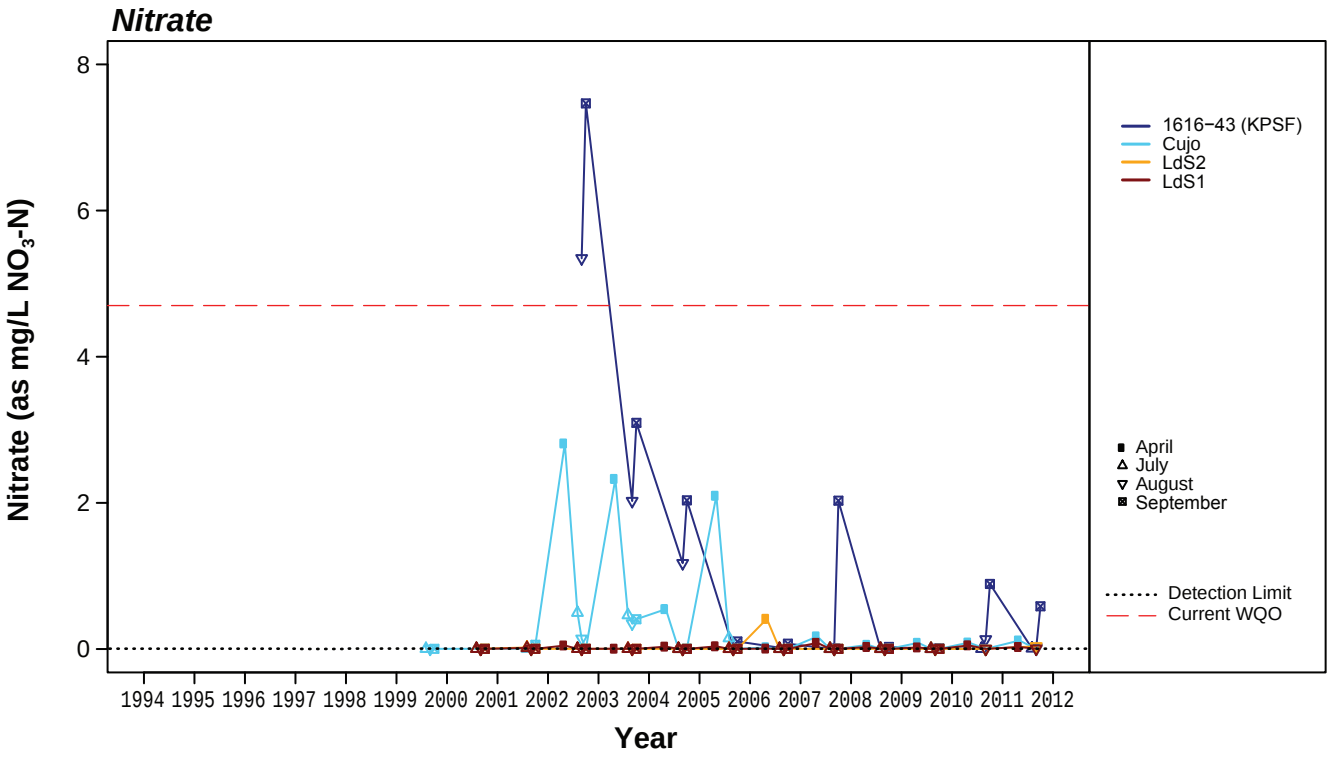

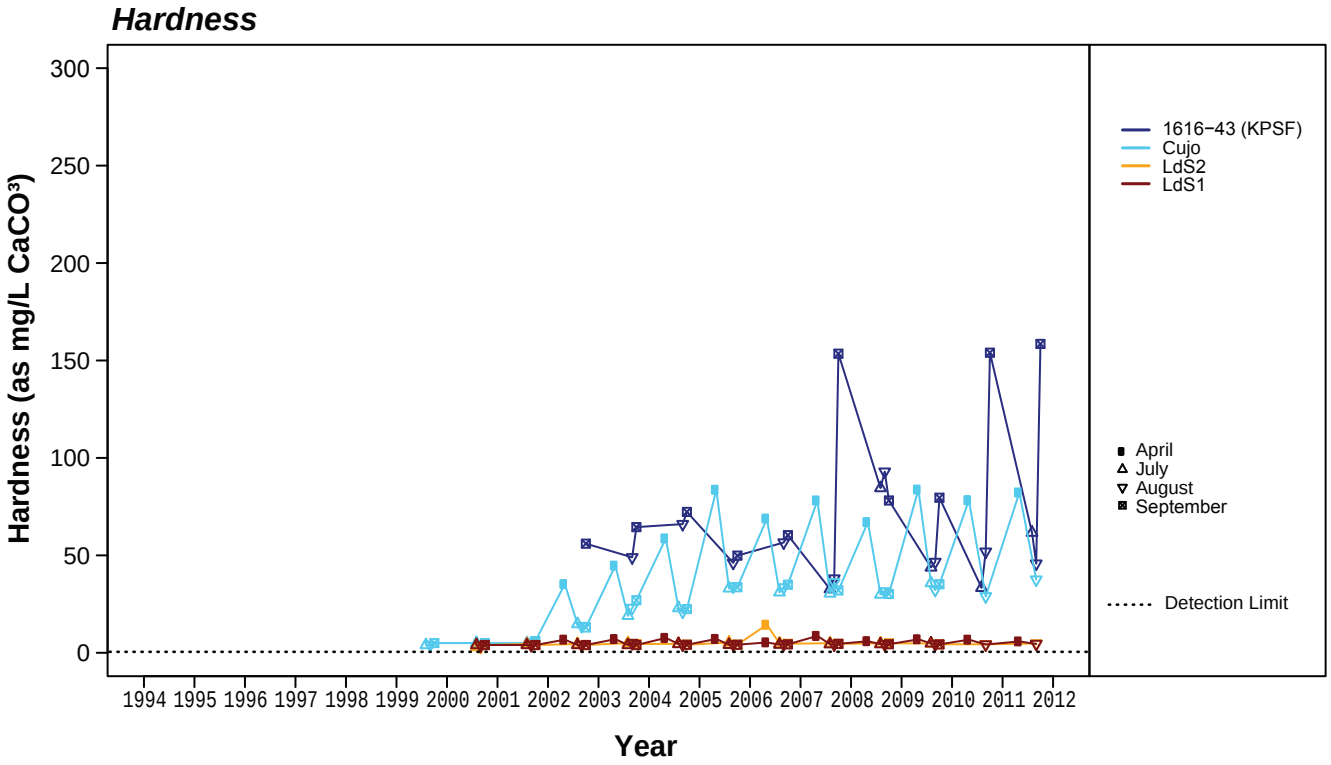

Note: The current WQO for Nitrate is 4.7 mg/L NO3-N and is based on the Ideal Performance Standard developed by Guy (2008).

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Total Nitrate and Hardness Concentrations in Water at AEMP Lake Sites of the King-Cujo Watershed, 1994-2011

Figure 1.1-4

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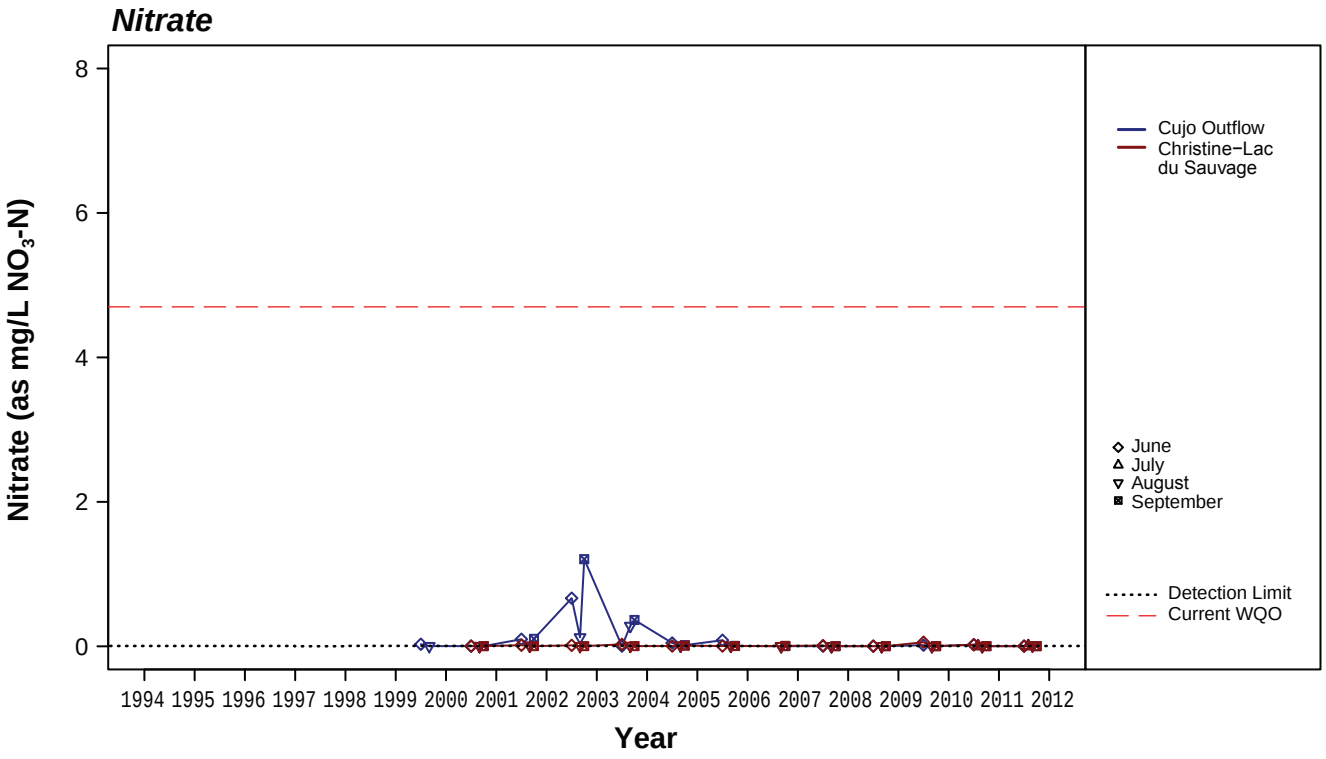

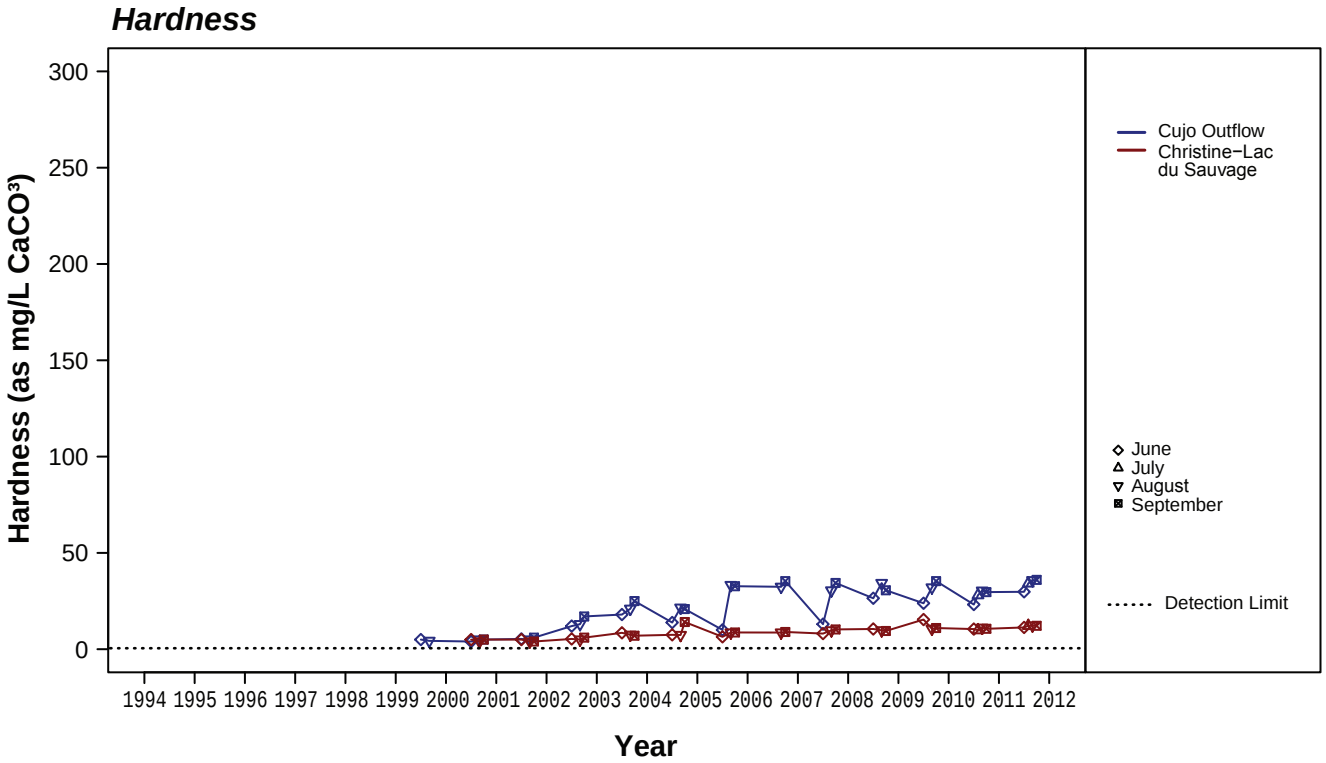

Note: The current WQO for Nitrate is 4.7 mg/L NO3-N and is based on the Ideal Performance Standard developed by Guy (2008).

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Total Nitrate and Hardness Concentrations in Water at AEMP Sream Sites of the King-Cujo Watershed, 1994-2011

5igure 1.1-5

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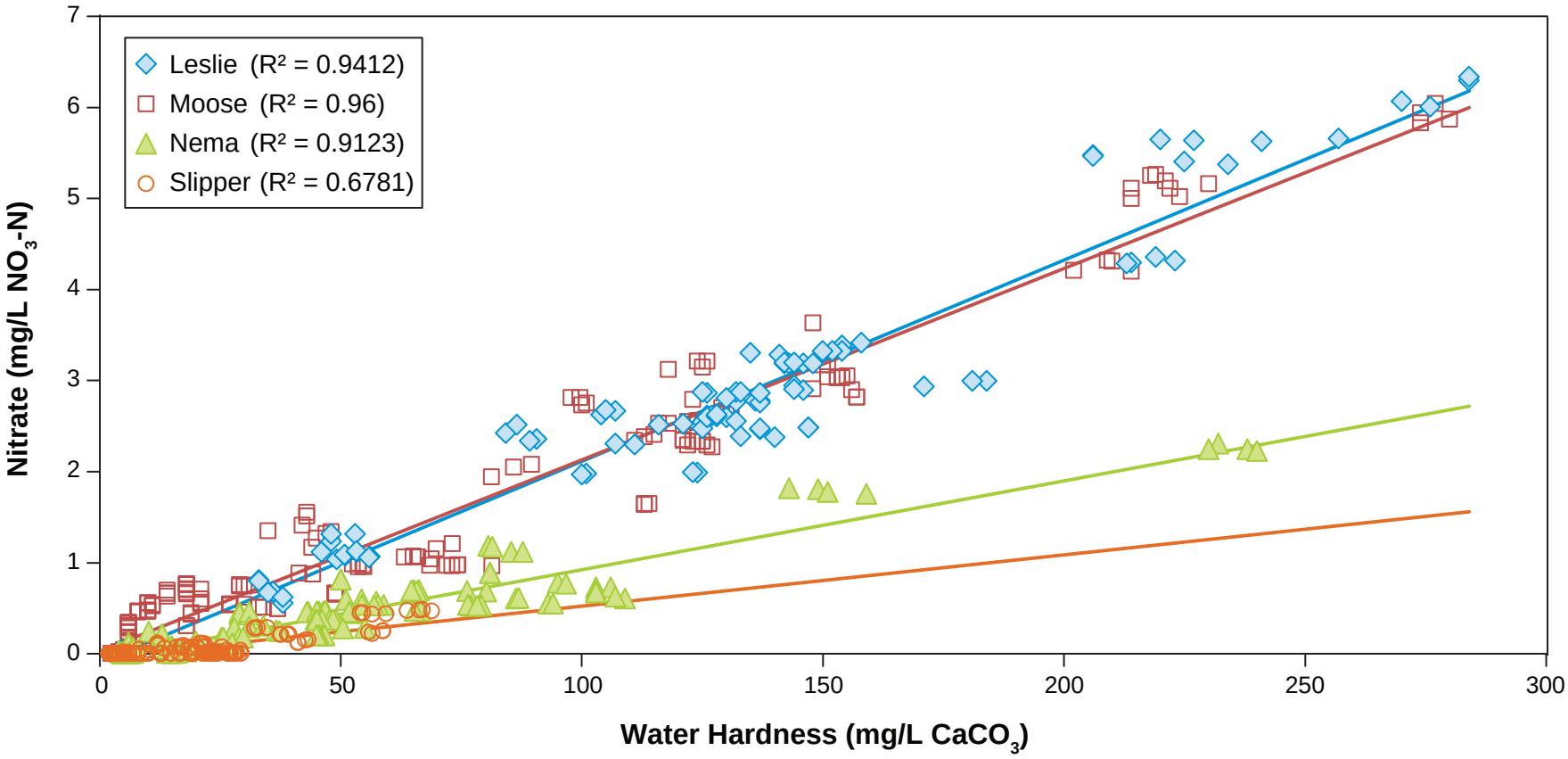

Figure 1.1-6

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Relationship between Water Hardness and Nitrate Concentration for Leslie, Moose, Nema and Slipper Lakes at EKATI

Figure 1.1-6

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1.3 OBJECTIVES

The recent review of nitrate toxicity conducted by CCME, the additional toxicological data for this anion available from Nautilus Environmental (2011a and 2011b; Appendix B) and others, as well as the role that water hardness has been shown to play in modifying the toxicity of nitrate, provide the basis for developing a SSWQO for nitrate at EKATI. Consequently, the objective of this report is the development of a proposed SSWQO for nitrate for the receiving environment at EKATI.

The focus of this SSWQO is on toxicity relating to long-term exposure to nitrate, for application in receiving environment long-term monitoring. Because hardness also modifies toxicity in short-term tests, it may be appropriate in the future to establish a hardness-linked SSWQO for short-term exposure.

To achieve the above main objective, the following components of deriving a SSWQO for nitrate were completed:

- a brief discussion of existing long-term guidelines relative to their applicability to EKATI (Section 2);
- a description of the methodology used in deriving the SSWQO (Section 3);
- a summarized discussion of the fate and behaviour, chronic toxicity studies, and calculation of the SSWQOs (Section 4); and
- a discussion of uncertainties related to each step of the process (Section 5).

Development of the SSWQOs followed established Canadian procedures for site-specific benchmark calculations and updated methods for their development (CCME 2003, 2007b), and incorporated methods from US EPA (1985) for inclusion of water hardness as a toxicity modifying factor.

2. Review of Current and Historical Water Quality Benchmarks

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2. Review of Current and Historical Water Quality Benchmarks

2.1 BACKGROUND

In Canada, WQGs are used largely as benchmarks for receiving environments, and do not have legal standing for compliance monitoring. The terms guideline, criterion, trigger value and objective are used by different jurisdictions to generally refer to levels for specific chemicals that are considered safe (i.e., pose minimal risk) in the environment. In Canada, these benchmarks are not equivalent to end-of-pipe discharge limits or standards that are specified in discharge permits; they refer to water quality in receiving water bodies.

Historically, Canadian WQGs have been derived using a safety factor approach, as described in CCME (1991). This method involves application of a safety factor (often ten-fold) to the toxicological effect level for the most sensitive species in order to calculate the WQG. This approach generally provides a highly conservative estimate of a concentration of the chemical of interest that would be expected to be safe across a broad spectrum of conditions associated with Canadian environments, as well as accounting for the possibility that species exist that are more sensitive than those that have been tested. However, this approach relies entirely on the results of a single study on a single species and, therefore, is subject to anomalous test results. In addition, in cases where data are only available for a small number of species, it also might not provide adequate protection for all taxa.

Environment Canada has updated procedures for establishing WQGs to include the use of a Species Sensitivity Distribution (SSD) where sufficient data exist (CCME 2007b). This approach involves assembling a cumulative distribution of toxicity endpoints for all species for which data are available and extrapolating the guideline based on the goal of protection of at least 95% of species. A sigmoidal distribution is fit to the data using a number of models, and the model that best fits the cumulative distribution (particularly in the lower tail of the distribution where the data for sensitive species occur) is used to determine the concentration that is expected to be protective of 95% of tested species. This concentration is termed the HC_5 (hazard concentration to 5% of the tested species), and is established as the WQG. Despite the apparent acceptance of effects on 5% of species, this approach is considered to be consistent with the guiding principal of protecting all forms of aquatic life because the distribution is comprised of threshold concentrations that are not expected to affect organisms (CCME 2007b). In addition, a protection clause may be invoked to lower the guideline from the HC_5 in the event that a threshold for a protected or otherwise critical species falls below the calculated WQG value.

WQGs can be calculated using the SSD approach with data from short-term (typically lethal concentration to 50% of tested species [LC_{50}] values from acute toxicity tests) or long-term exposures (threshold values from long-term tests), in order to calculate short-term or long-term guidelines, respectively. The advantage of using an SSD approach (which is termed a Type A guideline), over application of a safety factor (Type B guideline) is that it uses all of the available data to calculate a benchmark, rather than relying on a single data point. As a result, the SSD approach is less subject to individual anomalies within the dataset.

Generic WQGs, whether calculated based on application of a safety factor or use of an SSD, are meant for application across a broad range of water quality conditions and biological community structures. However, site-specific conditions can alter the risk associated with a particular contaminant, as a result of interaction of the substance with water quality characteristics or differences in the

composition of biological communities compared with that available within the dataset used to calculate the generic guideline. Consequently, guidance for derivation of site-specific WQGs (SSWQGs) in Canada has been published by CCME (2003).

2.2 EXISTING GENERIC WATER QUALITY BENCHMARKS

The current CCME WQG for nitrate is 13 mg/L as NO_3 (CCME 2003), which corresponds to 2.9 mg/L NO_3-N. This value was calculated on the basis of application of a ten-fold safety factor to the Lowest Observed Effect Concentration (LOEC) from a test using the Pacific tree frog, *Pseudacris regilla*. This guideline was not considered appropriate for EKATI since amphibians have not been documented as occuring in receiving environments surrounding the EKATI mine. In addition, procedures for development of WQGs have been updated to consider the distribution of species sensitivities, rather than focussing on individual data points (CCME 2007b).

Site-specific toxicity testing was conducted for EKATI in 2003 to evaluate the sensitivity of early life stages of lake trout (*Salvelinus namaycush*) and lake whitefish (*Coregonus clupeaformis*), both of which are resident species of fish in the lakes surrounding EKATI. The purpose of this testing was to establish whether species of fish that occur in sub-Arctic lakes might be different in their sensitivity to nitrate than the amphibian species on which the CCME WQG was based. The tests were conducted using sodium nitrate spiked into dechlorinated municipal tapwater. The results of these tests indicated that both species were sensitive to nitrate, although the results from the test using lake whitefish were complicated by poor survival of the control fish. The results of these tests have been published in the peer reviewed literature (McGurk et al. 2006), and provide the most sensitive published test endpoint for nitrate for any species. The authors concluded that these species of fish were as sensitive as the amphibian species on which the CCME guideline was based. Consequently, the CCME (2003) WQG for nitrate was initially adopted as a WQO for nitrate at EKATI.

In 2008, Environment Canada calculated an Ideal Performance Standard (IPS) for nitrate under the National Agri-Environmental Standards Initiative (NAESI) program (Guy 2008). IPS values were developed as non-regulatory guidelines for water quality in agricultural areas. The guideline value was calculated as the 5^{th} percentile from a SSD, incorporating a total of 12 species, including four invertebrates (*Ceriodaphnia dubia, Daphnia magna, Hyalella azteca* and *Macrobrachium rosenbergii*), four fish (*Oncorhynchus mykiss, Oncorhynchus tshawytscha, Pimephales promelas* and *Salvelinus namaycush*) and four amphibians (*Pseudacris regilla, Rana aurora, Rana pipiens* and *Xenopus laevis*) (Guy 2008). The derivation approach was analogous to revised guidance for deriving CCME type A WQGs (CCME 2007b). The IPS was established as 20.9 mg/L NO_3, which corresponds to 4.7 mg/L NO_3-N. Although this value was calculated for application to agricultural areas, there was nothing in the derivation process that was specific to agricultural sources and, consequently, this value was proposed and implemented as a WQO at EKATI in 2008.

CCME is in the process of revising the Canadian WQG for nitrate using an SSD approach; the draft CCME WQG was released for public comment in February 2011. The process used to develop the draft CCME WQG was largely consistent with that utilized in development of the IPS for nitrate, and followed the SSD approach. In general, the dataset employed by CCME in deriving the draft WQG was consistent with that used in development of the IPS for nitrate. The exceptions were that CCME added a species, the Topeka shiner (*Notropis topeka*), and endpoints for three of the 12 species used in deriving the IPS were different than CCME endpoints because of identification of additional studies or recalculation of the endpoints. The draft CCME WQG is not considered appropriate for application at EKATI since this guideline has not yet been finalized following the public comment period, and it includes species not relevant to the EKATI aquatic community.

WQGs for nitrate have been published in other jurisdictions. For example, the British Columbia WQG is 3 mg/L NO_3-N, based on application of a ten-fold safety factor to data for *Pseudacris regilla* (BCMoE 2009), similar to the existing CCME guideline discussed above. WQGs for nitrate in Australia and New Zealand were established in 2000 (ANZECC/ARMCANZ 2000) and corrected for an error in 2002; the corrected guideline was established as 7.2 mg/L NO_3-N (Hickey 2002), based on application of an acute to chronic ratio to a short-term guideline designed to protect 95% of species. Neither the US EPA nor the European Union has established WQGs for nitrate.

2.3 SUMMARY

The current Canadian WQG for nitrate relies heavily on data for amphibians. Although amphibians are known to occur in the Northwest Territories, the EKATI area is beyond their known distribution which is generally below the tree line (ENR 2006, 2012a and 2012b). In addition, amphibians have not been observed during WEMP or other biological surveys at EKATI (B. Milakovic and K. Kuker personal communication). Furthermore, subsequent to publication of the Canadian WQG (CCME 2003) and the IPS (Guy 2008), additional data have become available on the toxicity of nitrate and its interaction with water hardness (Nautilus Environmental 2011a and 2011b). Consequently, it is appropriate to reconsider the water quality objective that is currently being employed at EKATI and to develop a revised objective which includes all available and appropriate information.

3. Methods

3. Methods

3.1 INTRODUCTION

CCME WQGs are developed in a manner that is expected to be protective at all sites across Canada and accommodating the wide range of conditions that might be observed. Consequently, they typically employ a relatively high degree of conservatism to account for variables that might modify the risk of adverse effects in the environment. Site specific water quality objectives are derived in a manner that takes into consideration the unique characteristics of an individual site, such as biological community structure or physico-chemical characteristics of the environment that alter the potential for toxicity. In rare cases, a site-specific objective may be established at a value that is lower than the generic guideline to protect a critical and sensitive resource; however, typically, a site-specific objective is higher than the generic guideline, since incorporation of site-specific information reduces the need for conservatism that is inherent in the broad applicability of generic benchmarks.

Derivation of the SSWQO for nitrate followed the most recent guidance from CCME (2003, 2007b). The main steps for the derivation of a long-term nitrate SSWQO were as follows:

1. Data compilation of existing information including environmental fate, toxicological data, and modifying factors.
2. Identification of relevant toxicological data.
3. Selection of the approach to be used in deriving SSWQOs based on available data.
4. Calculation of objectives and discussion of results and uncertainties.

3.2 SITE-SPECIFIC WATER QUALITY OBJECTIVE APPROACHES

The CCME (2003) identified four approaches that can be taken to determine SSWQOs for individual substances: 1) the Background Concentration Approach; 2) the Recalculation Approach; 3) the Water Effects Ratio (WER) Approach; and, 4) the Resident Species Approach.

3.2.1 Background Concentration

The Background Concentration Approach involves establishing a SSWQO on the basis of the range of background conditions of the variable of interest. This approach is typically implemented in cases where there are naturally-elevated concentrations of the variable of interest. This is not the case at EKATI.

3.2.2 Recalculation

Using the Recalculation Approach, the existing generic benchmark is recalculated after limiting the dataset to available toxicological data for species that are considered relevant to the site (i.e., resident species or suitable surrogates representing taxa for which toxicological data are not available). Species that are not relevant (e.g., in this case, tropical species and amphibians) are excluded from the dataset in order to create an SSD which provides an appropriate representation of the biological community found at a specific site.

3.2.3 Water Effects Ratio

Using the Water Effects Ratio (WER) Approach, site and laboratory waters are used in parallel toxicity tests in which the substance of interest is introduced to the water to measure the effect that site water has on the toxicity to one or more species. A difference in sensitivity of test organisms between the test

waters provides an indication that the site water modifies the toxicity of the substance of interest. This provides justification to alter the water quality benchmark to account for that difference, because WQGs or similar benchmarks are typically derived from toxicity tests conducted in standardized laboratory water. Environmental and toxicity modifying factors (ETMFs) are characteristics in site water that can alter the behaviour, uptake, or toxicity of a substance to organisms.

3.2.4 Resident Species

Using the Resident Species Approach, species that occur in the environment are tested to evaluate whether they are different in sensitivity from those that have been used to derive the existing benchmark. In the case of nitrate, data have already been collected for resident fish species (McGurk et al. 2006), and much of the available dataset for effects of nitrate on aquatic organisms is considered to be relevant to the site.

3.2.5 Approach Selected for the EKATI SSWQO Calculation

The Recalculation Approach was employed for development of the SSWQG for nitrate at EKATI. This approach was considered appropriate because key species that were used to develop existing Canadian WQGs for nitrate, in particular amphibians, are not relevant to the site. Twelve species were incorporated into development of the IPS for nitrate, and one additional species (i.e., 13 in total) was identified in the draft CCME WQG for nitrate. Four of the species used in each of these derivations were amphibians, and are not considered relevant to the site. In addition, the giant river prawn was included in the previous WQG derivations, but is not considered relevant to the site (see Section 4.2 for rationale). Additional data were identified for inclusion in the SSWQO, including for species already represented in the dataset, as well as for two additional species (an invertebrate and a green alga).

Sub-Arctic lakes, such as those located within the EKATI watersheds, tend to be oligotrophic and, consequently, generally low in nitrate. Thus, the Background Concentration Approach was not useful. Water Effect Ratio tests were also not employed here, since water quality conditions (other than hardness) were not expected to result in significant change in the sensitivity of organisms to nitrate. Additional tests using resident species were not considered necessary to supplement the recalculation approach.

3.3 COMPILATION OF EXISTING INFORMATION

3.3.1 Environmental Fate

As part of the initial step in developing the SSWQOs, data on the physical and chemical interactions of nitrate in aquatic systems were compiled and reviewed.

3.3.2 Toxicity Data

The available literature on chronic toxicity of nitrate have recently been comprehensively reviewed by Environment Canada and/or CCME as part of development of the IPS (Guy 2008) and in the draft Canadian water quality guideline for nitrate. The chronic toxicity data that were considered appropriate for inclusion in those documents were reviewed here and considered for inclusion in the SSWQO for nitrate at EKATI.

In addition, a literature search was conducted to identify recently published studies on chronic toxicity of nitrate that might not have been captured in the literature review conducted by CCME. The focus of this search was on literature published since 2009. Toxicity data were also available from Nautilus Environmental (2011a and 2011b; Appendix B).

3.4 EVALUATION OF RELEVANT TOXICITY DATA

The data available in the compiled toxicity studies were reviewed and classified as either primary, secondary or unacceptable, consistent with the CCME (2007b) criteria for review of toxicological data for consideration in WQG development. Studies were classified as primary if they, at a minimum, met the following criteria: use of measured concentrations; control response reported and acceptable; concentration-response shown or evident from the reported endpoints; ETMF information provided (at least hardness data); study design and replication reported; and, proper statistics used. Studies that provided a minimum of ETMF information (hardness) and control response were classified as secondary data. Studies in which control performance did not meet acceptable limits or where insufficient supporting information was provided were considered unacceptable.

Data that were considered either primary or secondary were included in the SSD, except in cases where other primary or secondary data were available for a different, more sensitive endpoint for that species. In some cases, studies that provided useful information but did not meet the criteria for primary or secondary data quality were used as supporting information but were not used directly in the calculation of the SSWQO. All other studies were excluded from further consideration.

The test duration was evaluated for each study included in the derivation of the long-term SSWQO as outlined in CCME (2007b). Toxicity tests that were suitable for use in derivation of a long-term SSWQO were defined as those that met the following criteria (CCME 2007b):

- *fish* - test durations of ≥ 21 days, or ≥ 7 days if involving the egg or larval stages, based preferentially on non-lethal endpoints of growth, egg/larval development, or reproduction;
- *invertebrates* - non-lethal endpoints (growth, reproduction) from test durations of ≥ 96 hours for shorter lived invertebrates or of ≥ 7 days for longer lived invertebrates, and lethal endpoints from tests of ≥ 21 days for longer lived invertebrates (lethal endpoints for < 21 day tests for shorter lived species were considered on a case-by-case basis); and,
- *plants/algae* - growth test durations exceeding 24 hours.

Studies were screened for relevance in the context of species present at the site. A species was classified as resident if it belonged to the same genus as a species present at EKATI. Toxicity data for species that are present at EKATI were preferred; however, only a limited number of standardized toxicity tests exist for aquatic species. Therefore, in the absence of data for resident species, surrogate species that were taxonomically related to resident taxa (for example, were within the same taxonomic family) or occurred in other sub-Arctic lakes were included to provide a robust and relevant dataset.

3.4.1 Minimum Requirements for SSD Dataset

In order to calculate a chronic SSD, the following are the minimum dataset requirements (CCME 2007b):

- *fish* - require at least three studies on freshwater fish species, including one salmonid and one non-salmonid;
- *invertebrates* - require at least three studies on freshwater invertebrate species, at least one of which is a planktonic crustacean species; and,
- *plants/algae* - at least one plant or algal species is required. In the case where plants or algae are among the most sensitive taxa, a chemical is classed as phytotoxic and thereby requires two studies for an acute SSD, or three studies for a chronic SSD.

3.4.2 SSD Data Selection

Following screening of studies for validity for use in the SSD dataset for nitrate, the complete dataset was examined. Only the most sensitive endpoint from each species was included (e.g., reproduction or growth, not both), resulting in only one data point per species in the SSD. In some cases, similar endpoints were available from more than one test with identical conditions for an individual species. In cases where the tests were considered sufficiently similar, the geometric mean of the values reported in the various studies was calculated and used in the SSD. However, in cases where one data point was considered more sensitive because of a methodological difference, such as use of a different lifestage, a longer test duration, or a more appropriate statistical evaluation of the data, the more sensitive test result was utilized, and the less sensitive data were excluded.

For chronic toxicity tests, a variety of toxicological endpoints may be available, including those based on point estimates (e.g., IC_x or EC_x values, which refer to the concentration of chemical that is expected to "inhibit" or "effect" *x*% of the population) and those based on hypothesis tests (e.g., the No Observed Effect Concentration [NOEC], Lowest Observed Effect Concentration [LOEC] and Maximum Acceptable Toxicant Concentration [MATC]). The NOEC is the highest tested concentration that shows no significant difference relative to the control, the LOEC is the lowest tested concentration that is significantly adversely affected relative to the control, and the MATC is the geometric mean of the NOEC and LOEC.

In general, point estimates derived from regression analysis are the most appropriate endpoint for use in WQG development. CCME (2007b) guidance lists the order of preference for chronic endpoints as follows:

$$\textit{No-Effects Threshold } EC_x/IC_x > EC_{10}/IC_{10} > EC_{11\text{-}25}/IC_{11\text{-}25} > MATC > NOEC > LOEC > EC_{26\text{-}49}/IC_{26\text{-}49} > \textit{Nonlethal } EC_{50}/IC_{50}$$

As shown, regression-based point estimates, such as the EC_{10} or EC_{25}, are generally considered to be more appropriate than hypothesis tests, such as the NOEC, LOEC, and MATC values, since results from hypothesis tests can be significantly affected by aspects of study design, such as replication and spacing between test concentrations (CCME 2007b). However, care needs to be taken in interpretation of EC_{10} and IC_{10} results, since toxicity tests rarely have the statistical power to detect this level of adverse effect with a reasonable degree of confidence. Consequently, where sufficient data were available, the shape of the dose-response and the variability in the dataset were considered carefully to establish the most appropriate endpoint for inclusion in the SSD.

3.5 DERIVATION OF A SSWQO

In the case of nitrate, the Recalculation Approach provided the most appropriate tool for establishing a site-specific objective at EKATI. In addition, there is significant evidence that water hardness plays an important role as a toxicity modifying factor for nitrate (Nautilus Environmental 2011a and 2011b), and hardness is strongly correlated with nitrate concentrations in the receiving environment surrounding EKATI. Thus, in addition to recalculation, an approach following that utilized by the US EPA (1985) in deriving hardness-linked benchmarks for metals (such as zinc, cadium and copper) was employed here in order to incorporate water hardness as a TMF for nitrate. Hardness has not previously been incorporated into WQGs for nitrate since previous investigations have not evaluated the role of this water quality variable on toxicity of nitrate; however, the evidence of this interaction is compelling.

In order to incorporate hardness as a modifying factor, the slopes of the relationships between chronic toxicity and water hardness for four species for which these data were available (three invertebrates, *Ceriodaphnia dubia, Hyalella azteca* and *Chironomus tentans*, as well as one fish, *Pimephales promelas*), were evaluated and compared. The dataset for each species was normalized using the geometric mean of the toxicity endpoints (in this case, IC_{25} values) and the geometric mean of the

hardness values tested. In this manner, the relationships between water hardness and toxicity could be compared between species directly, since this normalization removes the confounding factor of differences in sensitivity. The relationship between water hardness and toxicity was then calculated using a regression of the combined normalized data for all four species, following log transformation of both the normalized toxicity endpoint, and the normalized hardness data. The slope of this relationship was established as the pooled slope for the relationship between toxicity and water hardness. This approach is analogous, and provides identical results, to analysis of covariance (ANCOVA) (US EPA 1985).

Since water hardness alters the toxicity of nitrate, and the available toxicity tests were conducted in waters with a range of hardnesses, it was necessary to adjust the test endpoints to a common hardness using the pooled hardness-toxicity relationship, prior to using the adjusted data to construct the SSD. This step results in estimates for what the toxicity endpoints from the various tests would have been if the tests had all been conducted at the same hardness. The common hardness selected for this purpose was arbitrarily established as 40 mg/L as $CaCO_3$; the actual hardness selected for this purpose has no bearing on the outcome of this evaluation since this just serves to standardize the results to a single hardness so that the SSD can be constructed. Toxicity data were standardized to this common hardness value using the following equation:

$$Endpoint_{(at\ hardness\ 40)} = Endpoint_{(at\ tested\ hardness)} \times e^{[Pooled\ Slope \times (ln\ (common\ hardness\ [i.e.\ 40]) - ln\ (test\ hardness)]}$$

A cumulative distribution of the hardness-standardized toxicity data was then analyzed using SSD Master Version 2.0 (Rodney and Moore 2008). This software package fits data using five model distributions (normal, logistic, Weibull, Gompertz, and Fisher-Tippett). The best model was selected on the basis of Anderson Darling Goodness of fit tests, as well as best professional judgement based on a visual assessment of the plot within the lower tail of the distribution, where data for the most sensitive species occur.

The HC_5 from the selected SSD model was selected for use as the SSWQO at the common hardness (i.e., 40 mg/L hardness), and the pooled slope from the hardness-toxicity relationships was incorporated to provide an equation that could be used to calculate the SSWQO across a range of hardnesses. Since the data used to establish the relationship between water hardness and toxicity only incorporated a maximum hardness of approximately 160 mg/L, the relationship was not extrapolated beyond this hardness, and the SSWQO for waters with hardness exceeding 160 mg/L was conservatively established as the value calculated for 160 mg/L hardness, since it is not known to what extent a further reduction in toxicity would occur with further increase to the water hardness.

Following derivation of the SSWQO for chronic exposure, data gaps and uncertainties were reviewed with respect to the proposed SSWQO and its potential application.

3.6 EVALUATION OF THE SSWQO

The proposed SSWQO, including the hardness-toxicity relationship, was developed on the basis of toxicity tests conducted in laboratory control waters. The mechanism resulting in decreased toxicity of nitrate with increasing water hardness has not been previously established and, consequently, additional tests were conducted to confirm that the relationship established in laboratory-prepared water was also applicable to the ionic conditions associated with the receiving environments at EKATI.

This was accomplished by evaluating the sensitivity of *Ceriodaphnia dubia* and fathead minnows (*Pimephales promelas*) to nitrate added into water collected from four lakes at EKATI (Slipper, Nema, Moose and Leslie lakes) that had a range of water hardness values. Thus, by comparing the relationship of the sensitivity of these organisms at the different levels of hardness values associated with the lakes, with that demonstrated previously with laboratory-prepared waters, it was possible to demonstrate whether a consistent relationship was observed.

4. Results

4. Results

4.1 COMPILATION OF EXISTING INFORMATION

4.1.1 Environmental Fate

Nitrate is an essential nutrient that occurs in the environment as the most oxidized form of nitrogen in the nitrogen cycle (Figure 4.1-1). Within this cycle, nitrogen is converted from nitrogen gas through various forms of biologically-available compounds (e.g., ammonia, nitrite, nitrate), and is a major component of biological materials such as proteins. Nitrogen from the atmosphere is primarily converted to biologically-usable forms by soil-associated nitrogen fixing bacteria and some blue-green algae. Oxidized forms of nitrogen (e.g., HNO_3 and NO_x) also occur as a result of anthropogenic activities such as combustion and are transported in the atmosphere. Available forms of nitrogen can then be oxidized, primarily through bacterial pathways, to nitrate. Nitrogen may be returned to the atmosphere by bacterially-mediated denitrification or volatilization of ammonia.

In the sub-Arctic, aquatic concentrations of nitrogenous compounds occurring from natural processes tend to be low, since nitrogen fixation by soil-dwelling bacteria is limited by climate and geography. Consequently, lakes in this area are generally oligotrophic, containing low concentrations of nitrate and phosphate. At EKATI, nitrate is present in part through the natural processes described above; however, nitrate also occurs as a result of residues from explosives containing ammonium nitrate.

Nitrate that is present in the aquatic environment is essential for primary producers and is actively taken up by plants and algae and incorporated as a major nutrient for production of plant material. To a lesser extent, nitrate is also reduced to ammonia through bacterial pathways, which is also utilized as a nutrient by aquatic plants and algae. Terrestrial ecosystems and most marine environments are commonly nitrogen-limited and, consequently, addition of nitrate to these systems promotes plant growth. In freshwater aquatic systems, this may result in eutrophication; however, in phosphorus-limited aquatic systems, as is the case for most temperate freshwater lakes (Vollenweider 1976), addition of nitrate may not substantively alter primary productivity, since both nitrogen and phosphorus, among other micronutrients, are required for plant growth (Schindler 1974).

Nitrogen compounds may accumulate in sediments as a result of decay of organic matter and, as a result, bottom sediments may act as a sink for nitrogen, although nitrate may also be released from sediments to overlying waters under some conditions.

Nitrate is highly soluble, and typically exists in freshwater aquatic environments as the anion NO_3^-. It may bioconcentrate in algal cells, since it is a nutrient; however, it does not biomagnify through the food-chain. Although nitrate is a nutrient, it may be toxic to aquatic organisms at elevated concentrations. Consequently, it is necessary to establish safe levels for nitrate in the environment.

4.1.2 Chronic Toxicity Data

Chronic toxicity data from long-term exposure were available from 13 studies. These studies are reviewed in Appendix C and evaluated in Section 4.2.

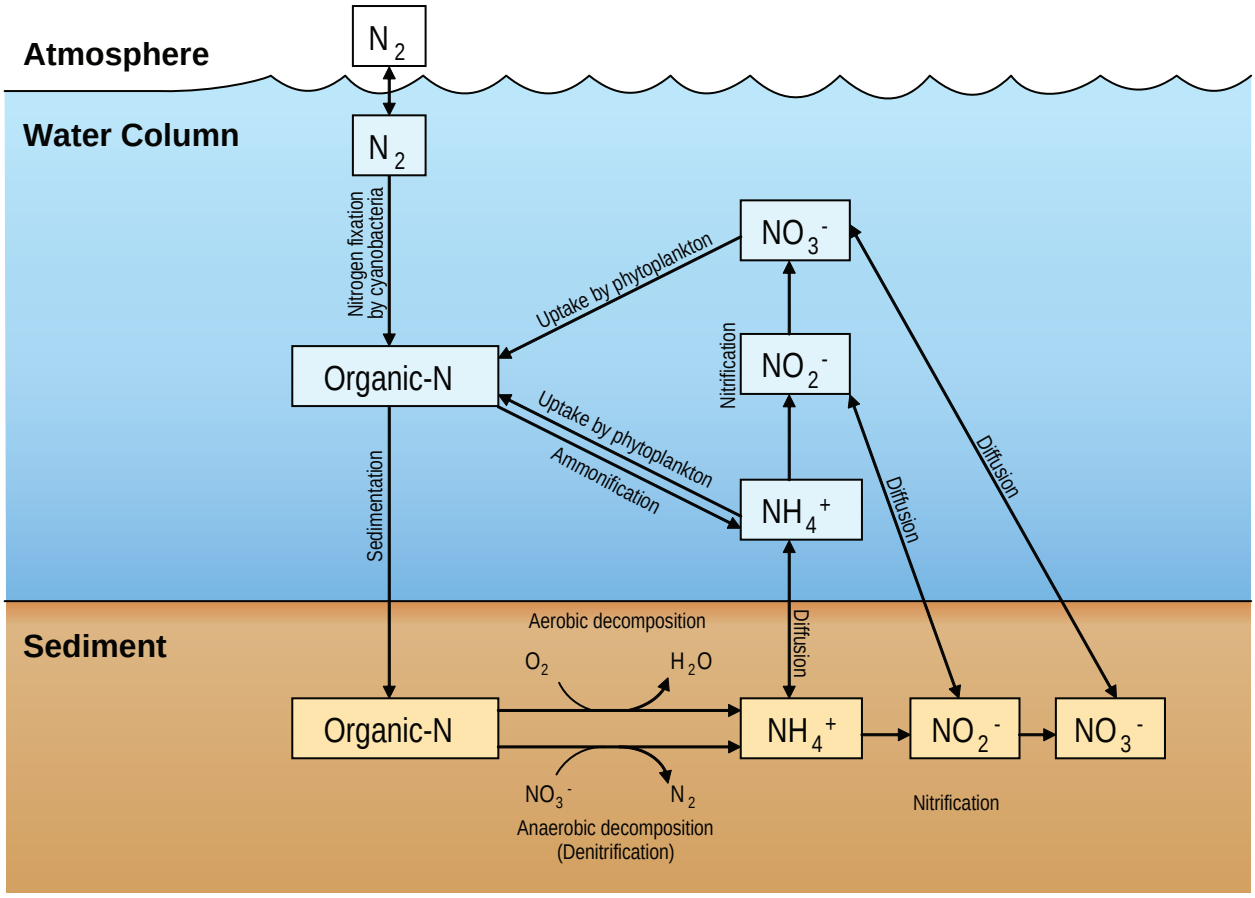

Figure 4.1-1

General Nitrogen Cycle in Aquatic Systems

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4.2 EVALUATION OF RELEVANT TOXICITY DATA

The results of the review of each study are summarized in Appendix C and rationale for incorporation of toxicity data into the SSD for each included species is provided below. Reasons for exclusion of any data that were included in the CCME draft guideline document are also discussed below. Studies that were included are summarized in Table 4.2-1.

Fish

Rainbow trout (*Oncorhynchus mykiss*): Data for rainbow trout were included in the IPS (Guy 2008) and draft CCME guideline, and are considered appropriate for inclusion in the recalculated SSWQO since salmonids (e.g., lake trout, Arctic grayling and round whitefish) occur in the environment at EKATI. Data were available from two studies (Nautilus Environmental 2011b; Stantec 2006), both of which evaluated the effects of nitrate on early life stage development from embryo through to fry. The value employed in the SSD was the geometric mean of data from four tests conducted by Nautilus Environmental (2011b) across a range of hardnesses, and one by Stantec (2006).

Lake trout (*Salvelinus namaycush*): Data for lake trout were included in the IPS (Guy 2008) and draft CCME guideline, and are considered appropriate for inclusion in the recalculated SSWQO since this species occurs in the environment at EKATI. Data for this species were available from a study conducted by McGurk et al. (2006) evaluating the effect of nitrate on development of eggs through to fry.

Chinook salmon (*Oncorhynchus tshawytscha*): Data for chinook salmon from Westin (1974) were included in the IPS (Guy 2008) and draft CCME guideline but were excluded from the current long-term dataset for EKATI, because no information on the hardness tested was reported for this study. Consequently, it was not possible to evaluate the sensitivity of this species in relation to the other investigations. Data were available for two other salmonids (i.e., rainbow trout and lake trout) both of which were considered to be more relevant to the site since chinook salmon have an anadromous life cycle.

Fathead minnow (*Pimephales promelas*): Data for fathead minnows were included in the IPS and draft CCME guideline, and are considered appropriate for inclusion in the recalculated SSWQO since this species is in the family Cyprinidae, consistent with lake chub, which occur in the environment at EKATI. This species typically occurs in warmer waters than those associated with sub-Arctic environments; however, fathead minnows are commonly used in laboratory testing, and can tolerate temperatures as low as 6°C. Consequently, considering the relatively small number of fish for which chronic toxicity data were available for nitrate, data for this species were included in the SSWQO development. Data for this species were available from three studies; Nautilus Environmental (2011a) evaluated survival and growth of larvae over a seven day period, US EPA (2010) and Adelman et al. (2009) evaluated hatch, survival and growth over a 32 day period. The data from Nautilus Environmental (2011a) were used to establish the relationship between water hardness and toxicity to this species, and the data from US EPA (2010) were used in the SSD; these latter data were considered preferable to those from Nautilus Environmental (2011a) because of the higher degree of sensitivity associated with the longer exposure duration, and were preferable to the data from Adelman et al. (2009) since the latter authors employed pseudo-replication and did not follow standardized test procedures for this species.

Topeka shiner (*Notropis topeka*): Data for the Topeka shiner were included in the draft CCME guideline. This species is not resident in Canada, and is primarily associated with warmer water prairie streams in the central portion of the Great Plains; however, data for this species were included in the recalculated SSWQO, regardless, since this species is in the family Cyprinidae, consistent with lake chub, which occur in the environment at EKATI. Species of the genus *Notropis*, including *N. topeka, N. anogenus* and *N. bifrenatus*, are considered protected in a number of jurisdictions in North America, indicating that fish of this genus may be sensitive to environmental perturbations. Consequently, despite concerns that this

species may not be relevant to the site, it was included in the dataset for calculation of the SSD. Data were available for this species from an investigation conducted by Adelman el al. (2009).

Table 4.2-1. Chronic Toxicity Studies Used in the Species Sensitivity Distribution

Species (common name)	Endpoint	Hardness (mg/L)	Effect level (mg/L NO_3-N)			Reference
			Reported	Adjusted	Species mean	
Salvelinus namaycush (lake trout)	146 d MATC, growth	13	3.2	9.2	9.2	McGurk et al. (2006)
Ceriodaphnia dubia (water flea)	7 d IC_{25}, reproduction	44	11.3	10.3	9.8	Nautilus Environmental (2011a)
	7 d IC_{25}, reproduction	98	23.9	10.2	--	Nautilus Environmental (2011a)
	7 d IC_{25}, reproduction	166	43.4	11.2	--	Nautilus Environmental (2011a)
	7 d MATC, reproduction	164	30.1	7.9	--	Scott and Crunkilton (2000)
Pimephales promelas (fathead minnow)	32 d EC_{20} embryo/larval growth	145	59.8	17.6	17.6	US EPA (2010)
Oncorhynchus mykiss (rainbow trout)	41 d MATC, development	10	15.0	56.1	29.6	Nautilus Environmental (2011b)
	41 d MATC, growth	45	26.0	23.2	--	Nautilus Environmental (2011b)
	41 d MATC, growth	90	77.9	36.0	--	Nautilus Environmental (2011b)
	41 d MATC, growth	160	77.9	20.8	--	Nautilus Environmental (2011b)
	64 d IC_{25}, growth	310	162.2	23.1	--	Stantec (2006)
Hyalella azteca (amphipod)	14 d IC_{25}, growth	46	12.9	11.3	29.7	Nautilus Environmental (2011a)
	14 d IC_{25}, growth	86	117.0	56.5	--	Nautilus Environmental (2011a)
	14 d IC_{25}, growth	172	182.0	45.4	--	Nautilus Environmental (2011a)
	10 d IC_{25}, growth	310	187.5	26.7	--	Stantec (2006)
Chironomus dilutus (midge)	10 d IC_{25}, growth	46	49.0	42.9	44.9	Nautilus Environmental (2011a)
	10 d IC_{25}, growth	86	101.0	48.7	--	Nautilus Environmental (2011a)
	10 d IC_{25}, growth	172	174.0	43.4	--	Nautilus Environmental (2011a)
Notropis topeka (Topeka shiner)	30 d MATC	220	360.1	71.1	71.1	Adelman et al. (2009)
Daphnia magna (water flea)	7 d MATC, reproduction	164	506.9	132.3	132.3	Scott and Crunkilton (2000)
Pseudokirchneriella subcapitata (alga)	72 hr IC_{25}, growth	--	691.0	--	691.0	Nautilus Environmental (2011a)

Adjusted values were adjusted to a hardness of 40 mg/L based on a pooled slope of 0.9512.
ICx (e.g., IC_{20}) is the concentration at which x% of test organisms are expected to be inhibited (e.g., inhibited reproduction).
MATC is the Maximum Acceptable Toxicant Concentration (concentration at threshold for effects; calculated as the geometric mean of the NOEC and LOEC).

Invertebrates

Spiny water flea (*Ceriodaphnia dubia)*: data for *C. dubia* were included in the IPS (Guy 2008) and draft CCME guideline, and are considered appropriate for inclusion in the recalculated SSWQO because a species of this genus occurs in the environment at EKATI. Data were available for this species from three-brood (6 to 8 days) survival and reproduction tests conducted by Nautilus Environmental (2011a) in waters with three hardnesses, and a test reported by Scott and Crunkilton (2000); the geometric mean of these four test endpoints was used in the SSD.

Water flea (*Daphnia magna)*: data for *D. magna* were included in the IPS (Guy 2008) and draft CCME guideline, and are considered appropriate for inclusion in the recalculated SSWQO because species of this genus (e.g., *D. longiremis* and *D. middendorffiana*) occur in the environment at EKATI. Data were available for this species from a 21-day survival and reproduction test conducted by Scott and Crunkilton (2000).

Amphipod (*Hyalella azteca)*: data for *H. azteca* were included in the IPS (Guy 2008) and draft CCME guideline. Although amphipods of the same order as this species do not occur in the lakes surrounding EKATI, gammarid amphipods do occur, and *Hyalella* species occur in other lakes in the region. Consequently, this species is considered appropriate for inclusion in the recalculated SSWQO. Data for this species were available from two studies: Nautilus Environmental (2011a) evaluated the survival and growth over a 14-day period in three water hardnesses, and Stantec (2006) evaluated survival and growth of this species over a 10-day period. Although there is a small difference in the duration of these tests, they were considered to be sufficiently analogous, and the final value for this species utilized in the SSD was the geometric mean of the endpoints from these four tests.

Giant river prawn (*Macrobrachium rosenbergii)*: data for *M. rosenbergii* published by Wickens (1976) were included in both the IPS and the draft CCME guideline. However, this species is not considered appropriate for inclusion in the current recalculation because no decapods occur in the environment surrounding EKATI.

Chironomid midge (*Chironomus dilutus*): data for *C. dilutus* were not available for inclusion in the IPS (Guy 2008) or draft CCME guideline; however, toxicity data for 10-day survival and growth tests are available for three water hardnesses for inclusion in the recalculated guideline (Nautilus Environmental 2011a). This species is considered an appropriate surrogate species, since midges of the genus *Chironomus* occur in lakes at EKATI.

Amphibians

Data for four amphibians (*Pseudacris regilla, Rana aurora, Rana pipiens* and *Xenopus laevis*) were included in derivation of the IPS (Guy 2008) and draft CCME guideline (Schuytema and Nebeker 1999a, 1999b and 1999c; Allran and Karosov 2000). However, they were not considered appropriate for inclusion in the recalculated objective for EKATI, because amphibians distributions are generally below the tree line and have not been observed to occur in environments surrounding the site (ENR 2006, 2012a and 2012b).

Plants and Algae

Green alga (*Pseudokirchneriella subcapitata)*: data for *P. subcapitata* were not available for inclusion in the IPS (Guy 2008) or draft CCME guideline; however, toxicity data are available for inclusion in the recalculated SSWQO from a test conducted by Nautilus Environmental (2011a). This species is considered an appropriate surrogate species, since green algae are a major component of the phytoplankton community at EKATI. Note that the threshold reported for this species was not hardness-

adjusted, since it is not known if hardness affects the toxicity of nitrate to algae. Plants and algae are anticipated to have differing uptake pathways for nitrate compared to animals since nitrate is an essential nutrient for primary producers and is actively accumulated.

The chronic toxicity values among the accepted screened studies ranged from 3.2 to 691 mg/L (9.2 to 691 mg/L following standardization to 40 mg/L hardness as $CaCO_3$). The range of hardness values among screened bioassays was 10 to 310 mg/L as $CaCO_3$, with an average of 127 mg/L.

Water Hardness and Nitrate Toxicity

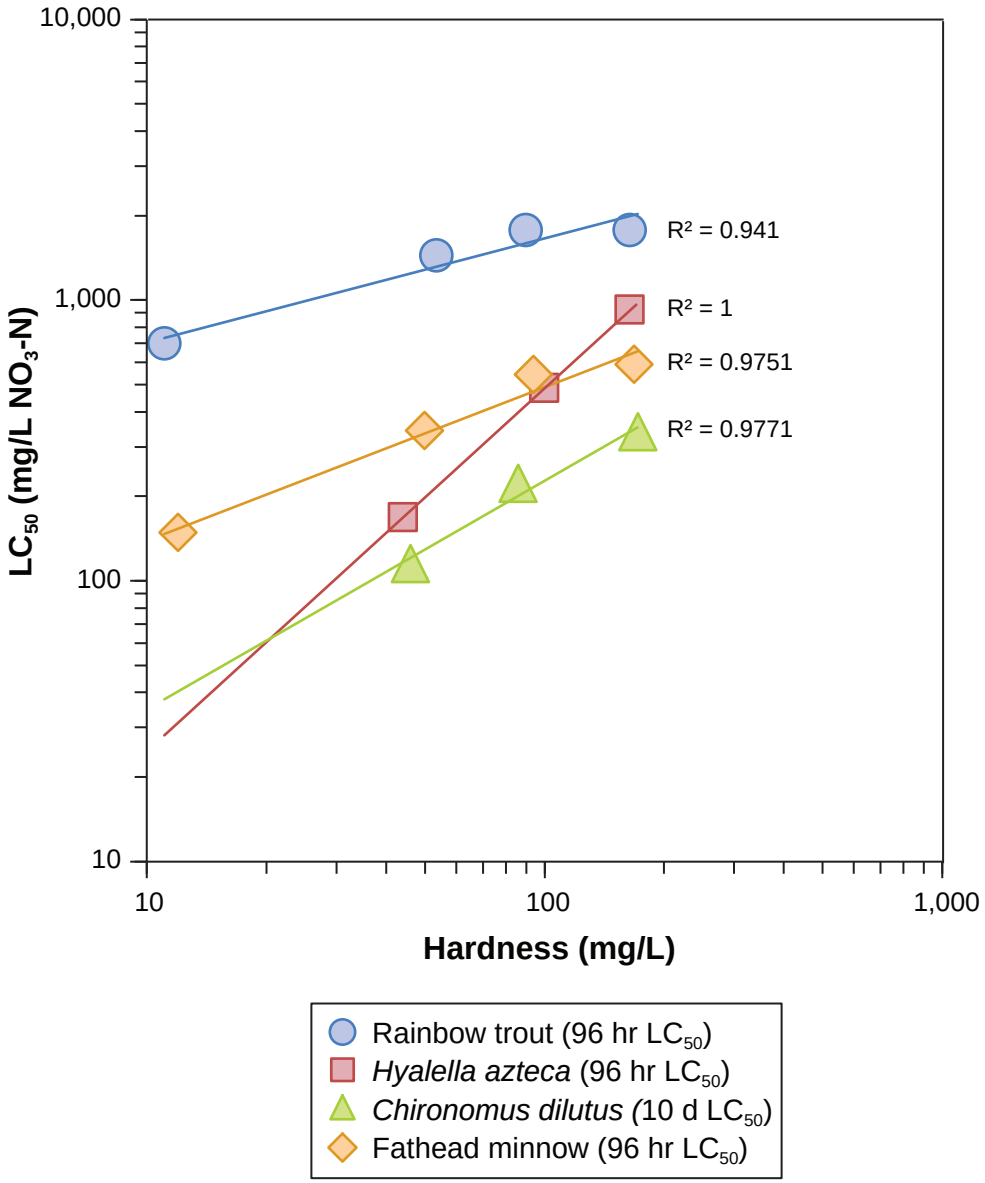
A recent investigation has established the relationship between water hardness and toxicity of nitrate (Nautilus Environmental 2011a and 2011b; Appendix B). Figure 4.2-1 illustrates the relationship between water hardness and mortality endpoints for two fish species (rainbow trout and fathead minnows) and two invertebrates (*Hyalella azteca* and *Chironomus dilutus*). In each case, a clear reduction in nitrate toxicity (increased LC_{50}) was observed as the hardness of the water increased.

Similarly, Figure 4.2-2 shows the relationship between water hardness and chronic toxicity endpoints for *Ceriodaphnia dubia* (reproduction), *C. dilutus* (growth), *H. azteca* (growth) and fathead minnows (growth). Again, a clear relationship is seen in which toxicity decreases (increased endpoint value) with increasing hardness. Chronic toxicity tests were also conducted using rainbow trout across a range of hardnesses, resulting in a similar pattern of decreased toxicity with increasing hardness (Nautilus Environmental 2011b); however, the data from this study were not amenable to establishing slope relationships, because point estimates could not be calculated from all of the tests and the effects observed were generally small.

The chronic toxicity data presented in Figure 4.2-2 were further evaluated to establish a pooled relationship between water hardness and chronic toxicity endpoints (Table 4.2-2, Figure 4.2-3). The effect levels (i.e., IC_{25} values) and corresponding water hardnesses from the tests were normalized for each species, following which a linear regression of log transformed hardness and chronic toxicity data was performed for each species. Figure 4.2-3 shows the normalized slopes of the relationships for each species, and Figure 4.2-4 provides the pooled slope for all four species. Of interest are the strong relationships (R^2 values ranging from 0.851 to 0.997) and similar slopes for each of the four species, and the strong relationship observed for the combined dataset, indicated by an R^2 value of 0.764, which implies that 76.4% of the variability in the IC_{25} endpoints is effectively explained by hardness (Table 4.2-2). The slope of the combined dataset was 0.9518.

Table 4.2-2. Relationship between Water Hardness and Chronic Toxicity of Nitrate

Species	n	R^2	P	Slope	Notes
Pimephales promelas	4	0.978	0.011	0.705	Good fit
Hyalella azteca	3	0.851	0.253	1.982	Good fit
Chironomus dilutus	3	0.988	0.071	0.958	Good fit
Ceriodaphnia dubia	3	0.997	0.034	1.007	Good fit
Pooled Regression	13	0.764	< 0.001	0.9518	
Arithmetic mean				1.163	
Geometric mean				1.078	



Relationship between Water Hardness and LC_{50} Values for Two Species of Fish and Two Invertebrates

Figure 4.2-1

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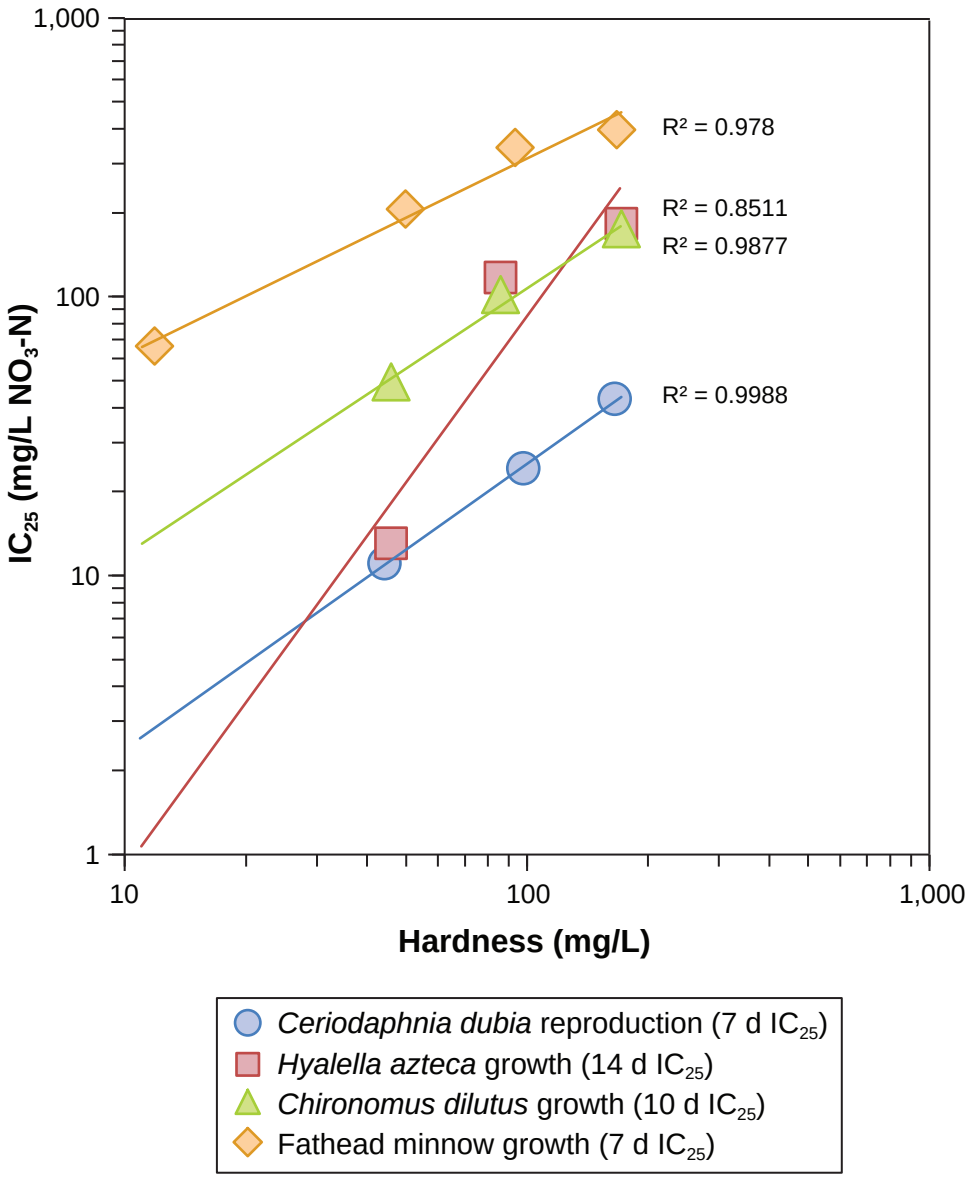

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Relationship between Water Hardness and IC_{25} Values from Chronic Toxicity Tests for Two Species of Fish and Two Invertebrates

Figure 4.2-2

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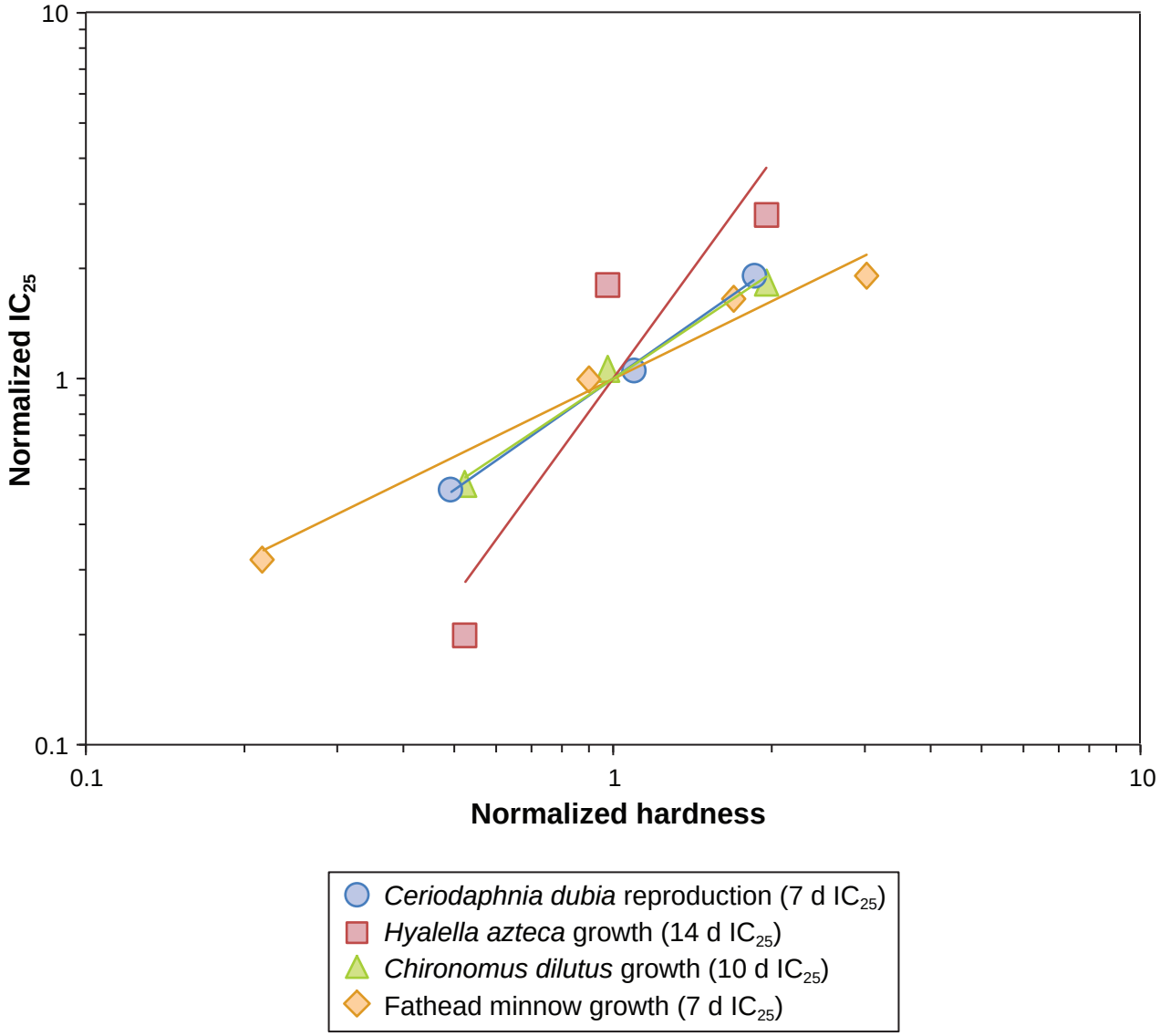

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Normalized Slopes of Hardness-Chronic Toxicity Relationships

Figure 4.2-3

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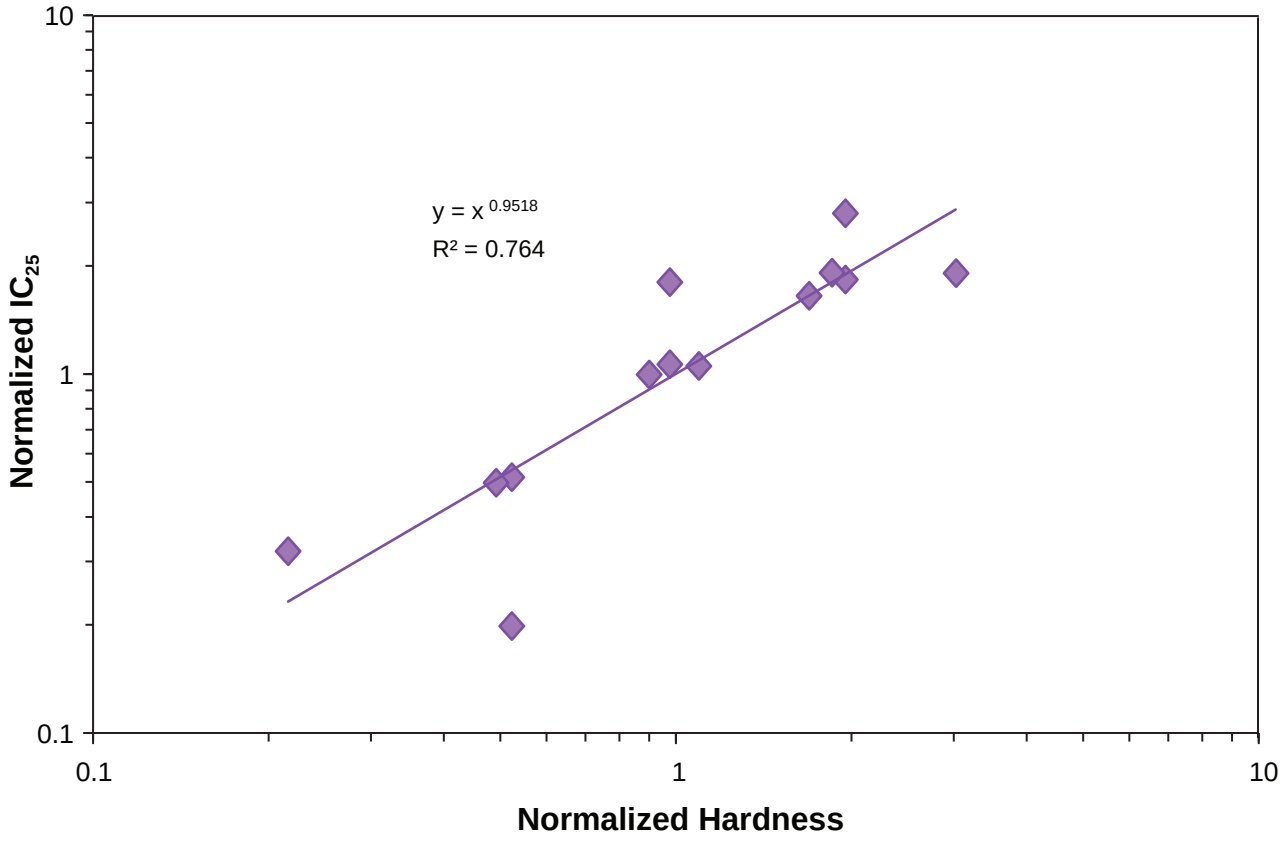

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Pooled Normalized Slope of Hardness-Toxicity Relationships for Four Species

Figure 4.2-4

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The pooled slope was used to standardize all of the acceptable chronic toxicity data to a hardness of 40 mg/L, with the exception of the data for the green alga, *P. subcapitata*, which were not adjusted; the adjusted values are also shown in Table 4.2-1. Data for the algal species were not adjusted because it has not been shown whether water hardness alters toxicity to plants and algae, and active uptake mechanisms for nitrate in algae differ substantially from other species, as a result of the essentiality of nitrate to these species. Adjustments of chronic test endpoints to a hardness of 40 mg/L were made using the following equation, which is consistent with the approach used by the US EPA (1985) for hardness-correcting toxicity test data for metals such as zinc, copper and cadmium:

$$Endpoint_{(hardness\ 40\ mg/L)} = Endpoint_{(tested\ hardness)} \times e^{[0.9518 \times (\ln(40) - \ln(test\ hardness))]}$$

4.3 DERIVATION OF SSWQO

From the available chronic toxicity studies, a total of 20 primary and 1 secondary datapoints representing nine species were included in the chronic SSD; these data represent one algal species, four invertebrate species, and four fish species (Table 4.2-1; Appendix C). The four invertebrate species comprised two members of the zooplankton (both cladocerans), one benthic invertebrate (a larval midge), and one epibenthic amphipod. The fish species included two non-salmonids and two salmonids. Therefore, CCME (2007b) data requirements regarding types and number of biological groups were met. In cases where more than one acceptable value was available for an individual species endpoint, the values were combined using the geometric mean to produce a single value for each species.

An SSD was calculated using SSD Master Version 2.0 (Rodney and Moore 2008; Appendix D). Five distributions were tested: Fisher-Tippett, Normal, Logistic, Weibull and Gompertz (Table 4.3-1; Figure 4.3-1; Appendix D). Although the Fisher-Tippett distribution produced the lowest Anderson Darling statistic, indicating the best fit to the data in the tails of the distribution, the logistic distribution was selected for deriving the fifth percentile from the distribution (i.e., the HC_5), since this provided a more conservative estimate of this value (4.39 mg/L at a hardness of 40 mg/L, compared with 7.08 mg/L using Fisher Tippett). The estimate from the Fisher-Tippett distribution provided the highest estimate for the HC_5 from the five models.

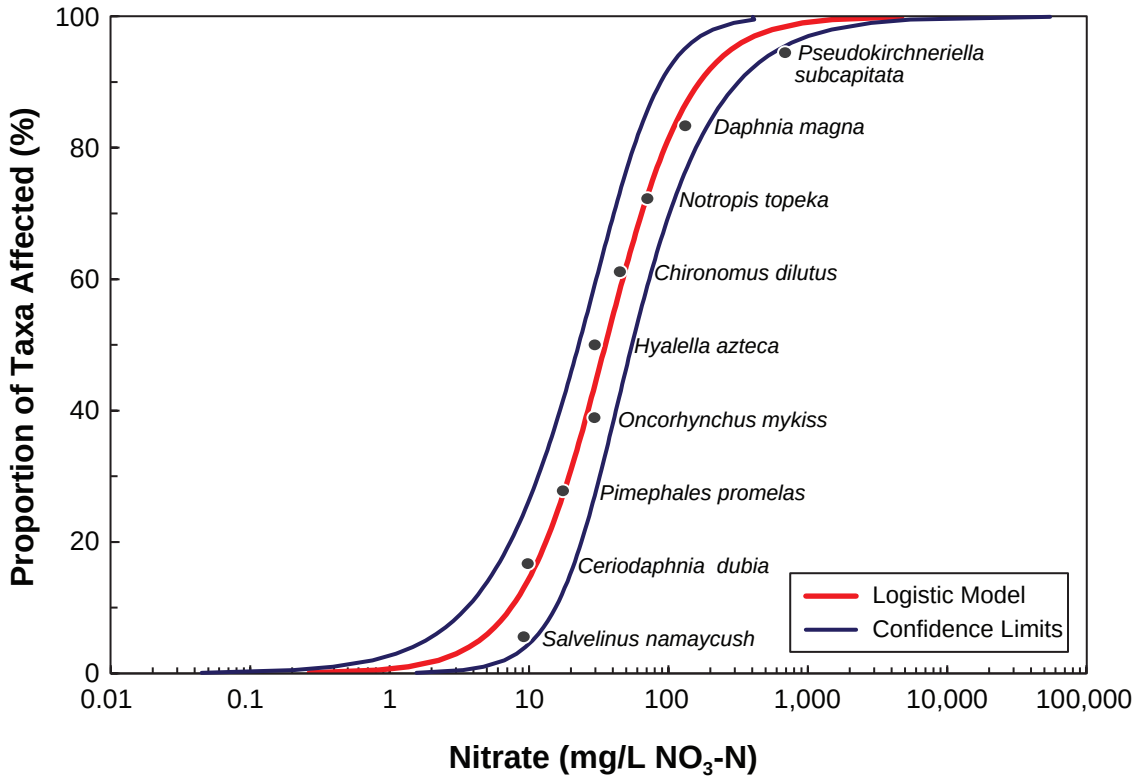
Table 4.3-1. Summary of Results of Species Sensitivity Distribution Calculations Using Five Models

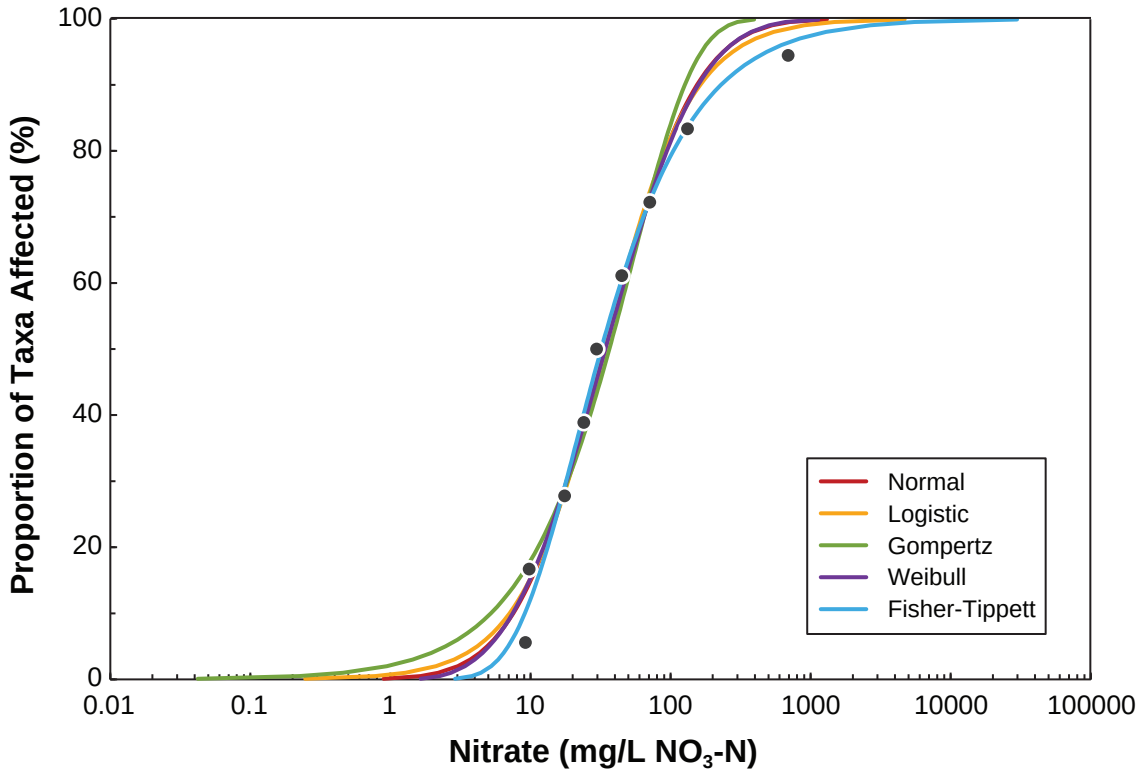
	Normal	Logistic	Gompertz	Weibull	Fisher-Tippett
Are data from Anderson-Darling distribution? (n > 5)	Yes	Yes	Yes	Yes	Yes
A^2	0.341	0.254	1.198	0.371	0.169
HC_5 (µg/L)	5.14	4.39	2.68	5.27	7.08
Lower confidence limit on the mean (expected HC_5)	2.96	1.82	0.54	2.89	5.02
Upper confidence limit on the mean (expected HC_5)	8.91	10.60	13.23	9.62	9.98

A^2 refers to the Anderson Darling statistic.
HC_5 refers to the Hazardous Concentration for 5% of tested species.

The slope of the hardness-toxicity relationship was then combined with this value to produce a final equation for deriving a proposed site-specific hardness-linked water quality objective for the site, as follows:

$$SSWQO_{(hardness\ x)} = e^{(0.9518 \times \ln(hardness\ x) + \ln(4.39) - 0.9518 \times \ln(40))}$$





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Long-term Species Sensitivity Distributions for Nitrate Using Five Model Distributions and the Selected Normal Model for Derivation of the SSWQO for Nitrate at EKATI

Figure 4.3-1

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which can be simplified to:

$$SSWQO = e^{(0.9518 \times \ln(\text{hardness}) - 2.032)}$$

The proposed SSWQOs calculated on the basis of this equation are summarized for a range of hardnesses in Table 4.3-2. For waters containing more than 160 mg/L water hardness, the water quality objective is proposed for the value obtained at 160 mg/L hardness, since the hardness-toxicity relationships established by Nautilus Environmental (2011a) do not exceed this range and, therefore, further extrapolation of the dataset should be conducted with caution.

Table 4.3-2. Calculated Proposed Site Specific Water Quality Objectives Calculated Across a Range of Hardness Values

Hardness (mg/L)	Proposed SSWQO (mg/L NO_3-N)
20	2.3
40	4.4
60	6.5
80	8.5
100	10.5
120	12.5
140	14.5
160	16.4
>160	16.4

In comparison to the existing CCME guideline and the IPS developed by Environment Canada, the proposed objective is lower under soft water conditions, and higher under hard water conditions. The higher value under hard water conditions is based on recent research (Nautilus Environmental 2011a and 2011b) not previously available regarding the relationship between hardness and nitrate.

4.4 EVALUATION OF APPLICABILITY OF THE SSWQO TO THE SITE

In addition to the ensuring that the requirements for a valid SSWQO derivation were met from the toxicological database as described above, BHP Billiton conducted further site-specific confirmatory tests to increase confidence in the derivation. The results of toxicity tests conducted using nitrate introduced into water from four lakes (Slipper, Nema, Moose and Leslie lakes) at the site are provided in Appendix E. These test results demonstrate that the sensitivity of *Ceriodaphnia dubia* and fathead minnows to nitrate was even lower in site water than in the laboratory water tests that had been used to establish the SSWQO, after taking into consideration differences in hardness. The additional protective effect appears to be provided by the balance of major ions associated with increasing hardness at the site, relative to the balance of ions in the waters used in the laboratory water tests. Chloride, in particular, is higher in the site waters than the laboratory waters, and may be acting as an additional toxicity modifying factor for nitrate, as it does for nitrite. Regardless, the results presented in Appendix E demonstrate that the SSWQO proposed here provides a conservative benchmark for nitrate at the site. Additional protection, over-and-above that incorporated on the basis of hardness, is provided by the ionic characteristics (i.e., balance of major ions) of the site water, and provides an additional safety margin.

The recommended long-term SSWQO for EKATI is intended to be used in routine monitoring of the downstream receiving environment based on continuous exposure to nitrate. This proposed SSWQO is based on updated CCME methodology, recent scientific findings, uses toxicological data specific to the EKATI biological community, has been shown to be protective under site-specific conditions, and is therefore considered appropriate and scientifically defensible for use at EKATI.

5. Uncertainty

5. Uncertainty

5.1 INTRODUCTION

Derivation of a SSWQO is a detailed process involving various steps of data review and analysis (CCME 2003, 2007b). Uncertainties associated with this process are: the accuracy of toxicity endpoints in available studies; selection of appropriate statistical endpoints; the extent to which the available toxicity studies appropriately reflect the biological community at the site; the extent of understanding of chemical fate; and, the statistical extrapolation process in estimation of a benchmark value. Incorporation of a TMF in developing a SSWQO also introduces uncertainty.

5.2 RELEVANCE OF THE TOXICOLOGICAL DATASETS

The uncertainties and limitations of the datasets and SSD approach are discussed in the following sections. The datasets used and extrapolation involved in the SSD process are associated with the largest potential sources of uncertainty.

5.2.1 Inclusion Criteria

Only primary and secondary data were included in the SSD, consistent with CCME (2007b) guidance. Other studies were considered in evaluation of the data, where appropriate, but were not included in the SSD. Of the 21 test endpoints used in the SSD, 20 were classified as primary studies and one was classified as secondary. Therefore, the studies were largely considered to be of high quality and appropriate for derivation of SSWQOs.

5.2.2 Minimum Data Criteria

Wheeler et al. (2002) suggest a minimum of 10 data points be used in estimating an HC_5, whereas the US EPA uses a minimum of eight data points in WQG calculations (US EPA 1985) and Newman et al. (2000) suggest that between 15 to 55 data points may be appropriate. CCME (2007b) does not have a minimum requirement for the number of data in an SSD, although minimum representation from specific taxonomic groups is specified and has been met.

While on the low end of the range of recommended values, the use of nine species in deriving the HC_5 for nitrate in this report is consistent with US EPA (1995) recommendations and meets the specifications of CCME (2007b); however, uncertainty would be reduced with information for additional species.

5.2.3 Endpoints Used in SSD

Of the nine species represented in the SSD, four were based on IC_{25} values, one on an EC_{20}, and four based on an MATC. None of the tests were considered sufficiently robust to calculate an IC_{10} or EC_{10} with a reasonable degree of confidence, since the IC_{10} values fell below the NOEC from the tests. However, 20% to 25% effect levels are appropriate and commonly used estimates for effects thresholds from toxicity tests.

5.2.4 Suitability of Species

The chronic SSD included one algal species, four invertebrates and four fish species, providing a reasonable representation of genera present at EKATI. Primary producers were represented by a green alga; epibenthic and benthic invertebrates were represented by an amphipod and chironomid, respectively; zooplankton were represented by two cladocerans; and, fish were represented by two

salmonids and two non-salmonids. The species represented in the dataset were each considered suitable to reflect conditions at EKATI, with the possible exceptions being the Topeka shiner and fathead minnow, both of which are warmer water fish. However, inclusion of these species was considered appropriate, regardless, based on the presence of cyprinids at EKATI, and the relatively small number of species with available data.

5.2.5 Model Fit

The robustness of a model fit to an SSD is related partly to the number and quality of available toxicological data. This fit depends on fulfilling both the number of representative studies for each biological group, and also having a large enough total number of studies included in the SSD. Model fit also depends on the distribution of available data along the cumulative species distribution plot.

Although the Fisher-Tippett distribution provided the best fit to the data based on the Anderson Darling statistic, the logarithmic model was selected based on professional judgement since this provided a more conservative estimate. The proposed guideline was shown to be protective of all species with available data across a range of hardnesses from 10 to 310 mg/L. This meets CCME (2007b) requirements for ecological protection.

5.3 STANDARDIZATION OF TOXICOLOGICAL DATA

The process of standardizing all toxicological endpoints to a common hardness introduces potential uncertainty. Only the standardized values are used in the SSD plot which is used to derive the HC_5 values. Therefore, it is critical that the relationship used between hardness and toxicity be accurate and appropriate for the range of study endpoints that are standardized. Errors in standardization could greatly affect the SSD plot.

The data available to establish the slope of the hardness-toxicity relationships were from tests ranging in hardness from 40 mg/L to 160 mg/L for three of the species, and from 15 mg/L to 160 mg/L for the fourth species. Consequently, the proposed site-specific objective is only linked to hardness across a range of up to 160 mg/L.

The SSWQO proposed here assumes that the hardness-linked relationship observed in laboratory-prepared water is relevant to conditions at EKATI. Tests have been completed using one invertebrate and one fish species in waters from four lakes at EKATI, encompassing a range of hardness conditions, and have demonstrated that additional protection against toxicity caused by nitrate is provided by the balance of ions associated with waters from the site, over-and-above that provided by hardness (Appendix E).

The current report also uses standardized tests with species that are appropriate representatives of EKATI aquatic communities. The standardization for chronic toxicity to hardness in this report represents best available current scientific knowledge.

5.4 TOLERANCE OF ORGANISMS

The species that comprise the dataset used for development of the SSD for nitrate include members of the zooplankton and phytoplankton, as well as benthic invertebrates and fish. It is not possible to test every species and lifestage that occurs in the environment and, as a result, the possibility exists that a more sensitive species exists in the environment. However, the organisms comprising the SSD represent the major classes of organisms that occur in the environment at EKATI, and include species and test endpoints, such as reproduction tests using *Ceriodaphnia dubia*, that are commonly among the most sensitive to toxicants. Thus, although uncertainty exists regarding untested species and lifestages, the available dataset is expected to adequately represent the ecosystem.

5.5 TOXICITY OF MIXTURES

WQGs are typically established on the basis of toxicity tests conducted using the individual toxicant of interest. However, in the environment, toxicants may be present in combination, and may result in less than additive, additive or more than additive (synergistic) effects. Because nitrate is not known to act in a synergistic manner with other contaminants, mixture effects in the receiving environment resulting in increased toxicity are not expected to occur.

6. Summary

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6. Summary

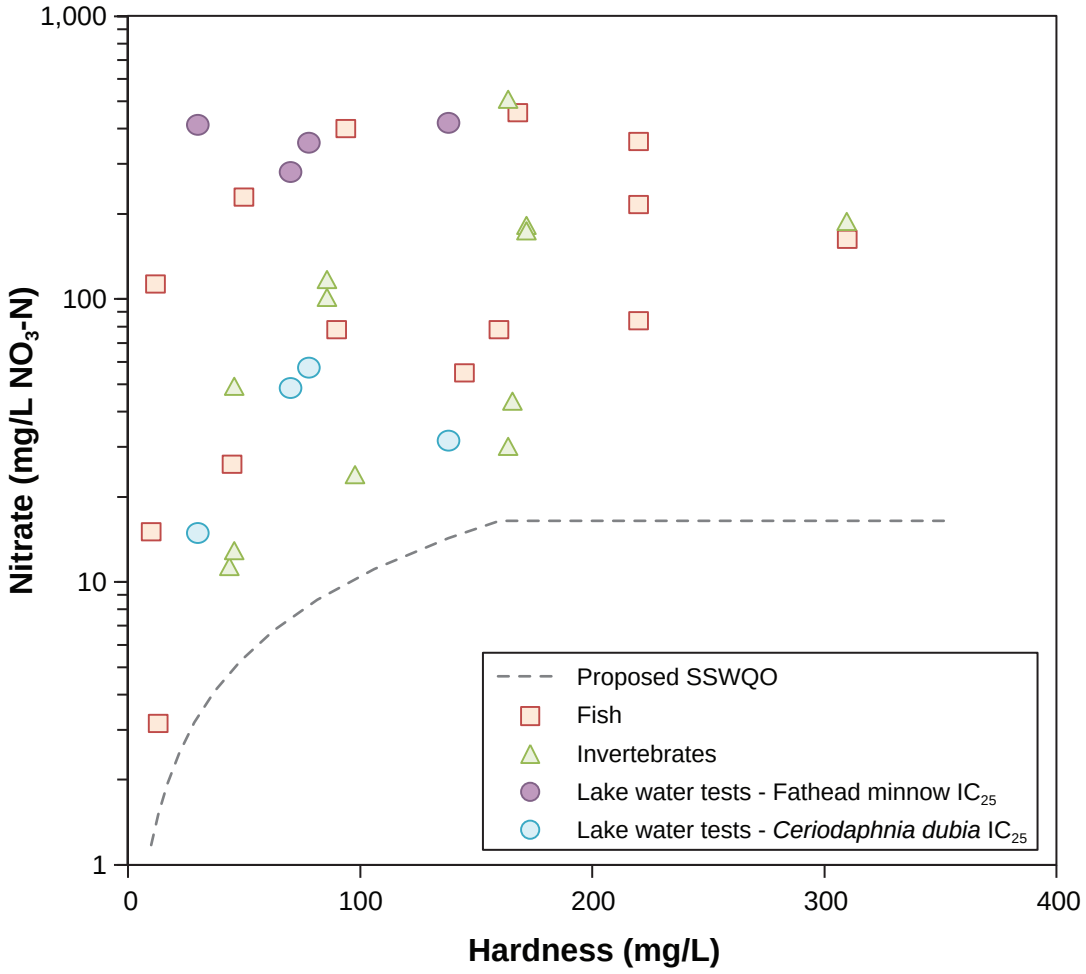
The SSWQO calculated in this report incorporates the effect that water hardness has in modifying the toxicity of nitrate. Under soft water conditions, the proposed objective is lower than the Environment Canada IPS (Guy 2008) calculated for nitrate; however, with increasing water hardness, the proposed objective is higher based on the demonstrated amelioration of nitrate toxicity.

Figure 6.1-1 shows the proposed SSWQO as a function of water hardness, as well as all of the toxicity test data that were considered appropriate for consideration in its development, each presented based on the hardness of the test water in which the test was conducted. All of the endpoint values are greater than the proposed water quality objective line, indicating that the proposed objective is conservatively protective in all cases across the range of water hardnesses and species tested.

Figure 6.1-1 also shows the results of *Ceriodaphnia dubia* and fathead minnow tests from nitrate-spiked tests conducted in water collected from Slipper, Nema, Leslie and Moose lakes; these tests results also are greater than the proposed SSWQO. Of further interest is that the results from these tests indicated that an additional level of protection is provided by the ionic balance of major ions associated with the site waters, over-and-above the benefit provided by water hardness that is incorporated into the SSWQO.

The importance of water hardness in modifying the toxicity of nitrate is clearly of relevance at EKATI, since increasing activities associated with nitrate release co-occur with increasing hardness (Figure 1.1-6). The slope of the relationship between nitrate concentration and hardness is almost identical between Leslie and Moose lakes, but is approximately half that in Nema Lake. This implies that either: 1) there is a source of water hardness in Nema Lake that is not derived from Leslie and Moose lakes; or, 2) there is a natural attenuation of nitrate between Moose and Nema lakes. It appears likely that the latter explanation is the cause of reduced nitrate in Nema Lake, and this suggests that nitrate concentrations will be naturally attenuated in the receiving environment.

The data evaluation described in this report involved an evaluation of safe levels of nitrate from a toxicological standpoint, consistent with WQGs for nitrate produced in Canada. Nitrate is a nutrient and, consequently, an increase in nitrate concentration may represent a risk of nutrient enrichment and a change in lake trophic status. However, potential effects associated with nutrient-loadings to freshwater environments require the presence of both nitrate and phosphate in order to cause detrimental effects. For example, Schindler (1974) demonstrated that experimental addition of sucrose and nitrogen to a lake resulted in eutrophication if phosphorus was also added; however, in the absence of additional phosphorus, the lake remained at pre-fertilization conditions. The lakes around the EKATI Diamond mine are oligotrophic to mesotrophic (i.e., low in nutrients) and phosphorus-limited (i.e., phosphorus concentrations control the growth of algae). Concentrations of phosphorus in effluent released from the EKATI Diamond mine are low and not predicted to increase. Therefore, the risk to a potential change in trophic status of a receiving lake related to nitrate in a phosphorus limited system is negligible.



Notes: Each individual point reflects the toxicity threshold from an individual test.
The SSWQO for specific hardness values are provided in Table 4.3.2 in the main text.

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Proposed Site Specific Water Quality Objective for Nitrate as a Function of Water Hardness and Individual Toxicity Test Results for Nitrate

Figure 6.1-1

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References

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Site-Specific Water Quality Objective for Nitrate, 2012 - Appendices

April 2012

Appendix A

Nitrate Water Concentrations in Lakes and Streams of the EKATI Project Area, 1994 to 2011

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Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
1616-30 (LLCF)	1998	May	-	-	-
1616-30 (LLCF)	1998	July	-	-	-
1616-30 (LLCF)	1998	August	-	-	-
1616-30 (LLCF)	1998	September	-	7	0.39
1616-30 (LLCF)	1999	June	-	6	0.414
1616-30 (LLCF)	1999	August	-	8	0.489
1616-30 (LLCF)	1999	September	-	10	0.697
1616-30 (LLCF)	2000	June	-	10	0.585
1616-30 (LLCF)	2000	August	-	14	0.784
1616-30 (LLCF)	2000	September	-	18	1.03
1616-30 (LLCF)	2001	June	-	14	0.74
1616-30 (LLCF)	2001	June	-	14	0.756
1616-30 (LLCF)	2001	June	-	15	0.633
1616-30 (LLCF)	2001	August	-	26	1.09
1616-30 (LLCF)	2001	August	-	27	1.04
1616-30 (LLCF)	2001	August	-	26	1.08
1616-30 (LLCF)	2001	September	-	22	0.437
1616-30 (LLCF)	2001	September	-	22	0.592
1616-30 (LLCF)	2001	September	-	22	0.569
1616-30 (LLCF)	2002	July	-	31	1.13
1616-30 (LLCF)	2002	July	-	31	1.13
1616-30 (LLCF)	2002	July	-	30	1.14
1616-30 (LLCF)	2002	August	-	31	1.16
1616-30 (LLCF)	2002	August	-	31	1.19
1616-30 (LLCF)	2002	August	-	31	1.22
1616-30 (LLCF)	2002	September	-	32	1.36
1616-30 (LLCF)	2002	September	-	32	1.33
1616-30 (LLCF)	2002	September	-	32	1.35
1616-30 (LLCF)	2003	June	-	31	<0.006
1616-30 (LLCF)	2003	June	-	31	<0.006
1616-30 (LLCF)	2003	August	-	41	1.29
1616-30 (LLCF)	2003	August	-	40	1.17
1616-30 (LLCF)	2003	September	-	44	1.2
1616-30 (LLCF)	2003	September	-	44	1.2
1616-30 (LLCF)	2004	June	-	43.4	2.62
1616-30 (LLCF)	2004	June	-	44.5	2.6
1616-30 (LLCF)	2004	June	-	12.4	0.365
1616-30 (LLCF)	2004	June	-	12.2	0.367
1616-30 (LLCF)	2004	June	-	-	-
1616-30 (LLCF)	2004	June	-	5.78	0.13
1616-30 (LLCF)	2004	July	-	36.6	1.01
1616-30 (LLCF)	2004	July	-	44.9	1.19
1616-30 (LLCF)	2004	July	-	58.3	1.51
1616-30 (LLCF)	2004	July	-	58.4	1.57
1616-30 (LLCF)	2004	July	-	61.2	1.58
1616-30 (LLCF)	2004	July	-	60.7	1.59
1616-30 (LLCF)	2004	August	-	63.5	1.53
1616-30 (LLCF)	2004	August	-	63.4	1.52
1616-30 (LLCF)	2004	August	-	64.1	1.52
1616-30 (LLCF)	2004	August	-	63.9	1.53
1616-30 (LLCF)	2004	August	-	62.1	1.57
1616-30 (LLCF)	2004	August	-	60.7	1.57
1616-30 (LLCF)	2004	August	-	58.2	0.945
1616-30 (LLCF)	2004	August	-	70.6	1.68
1616-30 (LLCF)	2004	September	-	72.7	1.82
1616-30 (LLCF)	2004	September	-	69.0	1.84
1616-30 (LLCF)	2005	June	-	96.9	2.81
1616-30 (LLCF)	2005	June	-	107	2.98
1616-30 (LLCF)	2005	June	-	87.4	2.80
1616-30 (LLCF)	2005	June	-	91.9	2.81
1616-30 (LLCF)	2005	June	-	126	3.1
1616-30 (LLCF)	2005	June	-	129	3.27
1616-30 (LLCF)	2005	July	-	130	3.34
1616-30 (LLCF)	2005	August	-	-	3.17
1616-30 (LLCF)	2005	August	-	112	3.22
1616-30 (LLCF)	2005	September	-	125	3.13
1616-30 (LLCF)	2005	September	-	119	3.02
1616-30 (LLCF)	2005	September	-	118	3.02
1616-30 (LLCF)	2005	September	-	123	3
1616-30 (LLCF)	2005	September	-	131	3.03
1616-30 (LLCF)	2005	September	-	122	-
1616-30 (LLCF)	2005	September	-	138	3.07
1616-30 (LLCF)	2006	May	-	51.8	1.14
1616-30 (LLCF)	2006	May	-	50.4	1.21
1616-30 (LLCF)	2006	June	-	133	3.04
1616-30 (LLCF)	2006	June	-	136	3.18
1616-30 (LLCF)	2006	June	-	138	3.19
1616-30 (LLCF)	2006	July	-	126	3.03
1616-30 (LLCF)	2006	July	-	127	2.97
1616-30 (LLCF)	2006	July	-	135	3.01
1616-30 (LLCF)	2006	July	-	134	3.02
1616-30 (LLCF)	2006	July	-	136	3.05
1616-30 (LLCF)	2006	July	-	140	3.07
1616-30 (LLCF)	2006	July	-	140	3.08
1616-30 (LLCF)	2006	August	-	135	3.1
1616-30 (LLCF)	2006	August	-	136	3.1
1616-30 (LLCF)	2006	August	-	142	3.14
1616-30 (LLCF)	2006	August	-	131	3.13
1616-30 (LLCF)	2006	September	-	141	3.15
1616-30 (LLCF)	2006	August	-	134	3.09
1616-30 (LLCF)	2006	August	-	135	3.09
1616-30 (LLCF)	2006	September	-	143	3.09
1616-30 (LLCF)	2006	September	-	139	3.28
1616-30 (LLCF)	2006	September	-	142	3.15
1616-30 (LLCF)	2007	September	-	157	3.95
1616-30 (LLCF)	2007	September	-	157	3.94
1616-30 (LLCF)	2007	June	-	14.9	0.257
1616-30 (LLCF)	2007	August	-	140	3.77
1616-30 (LLCF)	2007	August	-	144	3.77
1616-30 (LLCF)	2007	June	-	26.8	0.439
1616-30 (LLCF)	2007	June	-	27.1	0.444
1616-30 (LLCF)	2007	June	-	30.1	0.576
1616-30 (LLCF)	2007	June	-	30.3	0.596
1616-30 (LLCF)	2007	June	-	173	3.9
1616-30 (LLCF)	2007	June	-	167	3.9
1616-30 (LLCF)	2007	July	-	149	3.52
1616-30 (LLCF)	2007	July	-	149	3.55
1616-30 (LLCF)	2007	July	-	143	3.4
1616-30 (LLCF)	2007	July	-	146	3.4
1616-30 (LLCF)	2007	July	-	154	3.43
1616-30 (LLCF)	2007	July	-	151	3.43
1616-30 (LLCF)	2007	August	-	147	3.4
1616-30 (LLCF)	2007	August	-	148	3.41
1616-30 (LLCF)	2007	September	-	167	3.83
1616-30 (LLCF)	2007	September	-	166	3.84
1616-30 (LLCF)	2007	September	-	158	3.93
1616-30 (LLCF)	2007	September	-	156	3.95
1616-30 (LLCF)	2007	September	-	-	-
1616-30 (LLCF)	2007	September	-	-	-
1616-30 (LLCF)	2007	September	-	161	4
1616-30 (LLCF)	2007	September	-	162	3.98
1616-30 (LLCF)	2008	July	-	-	2.63

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
1616-30 (LLCF)	2008	July	-	-	2.63
1616-30 (LLCF)	2008	August	-	112	2.84
1616-30 (LLCF)	2008	August	-	115	2.84
1616-30 (LLCF)	2008	August	-	133	2.96
1616-30 (LLCF)	2008	August	-	134	2.99
1616-30 (LLCF)	2008	September	-	130	3
1616-30 (LLCF)	2008	September	-	132	2.99
1616-30 (LLCF)	2008	September	-	132	3.02
1616-30 (LLCF)	2008	September	-	132	3.02
1616-30 (LLCF)	2008	September	-	129	3
1616-30 (LLCF)	2008	September	-	133	3
1616-30 (LLCF)	2008	September	-	137	3
1616-30 (LLCF)	2008	September	-	136	3.01
1616-30 (LLCF)	2008	September	-	136	3.09
1616-30 (LLCF)	2008	September	-	134	3.12
1616-30 (LLCF)	2008	September	-	134	3.14
1616-30 (LLCF)	2009	June	-	23.9	0.445
1616-30 (LLCF)	2009	June	-	23.7	0.427
1616-30 (LLCF)	2009	June	-	32.3	0.756
1616-30 (LLCF)	2009	June	-	31.3	0.775
1616-30 (LLCF)	2009	June	-	197	5.35
1616-30 (LLCF)	2009	June	-	194	5.49
1616-30 (LLCF)	2009	July	-	130	3.48
1616-30 (LLCF)	2009	July	-	131	3.5
1616-30 (LLCF)	2009	July	-	131	3.61
1616-30 (LLCF)	2009	July	-	129	3.6
1616-30 (LLCF)	2009	August	-	138	3.48
1616-30 (LLCF)	2009	August	-	137	3.48
1616-30 (LLCF)	2009	August	-	133	3.48
1616-30 (LLCF)	2009	August	-	133	3.5
1616-30 (LLCF)	2009	August	-	140	3.53
1616-30 (LLCF)	2009	August	-	139	3.57
1616-30 (LLCF)	2009	August	-	146	3.61
1616-30 (LLCF)	2009	August	-	147	3.64
1616-30 (LLCF)	2009	August	-	141	3.77
1616-30 (LLCF)	2009	August	-	138	3.73
1616-30 (LLCF)	2009	September	-	142	3.7
1616-30 (LLCF)	2009	September	-	155	3.7
1616-30 (LLCF)	2009	September	-	134	3.80
1616-30 (LLCF)	2009	September	-	134	3.77
1616-30 (LLCF)	2009	September	-	153	3.72
1616-30 (LLCF)	2009	September	-	153	3.74
1616-30 (LLCF)	2009	September	-	145	3.78
1616-30 (LLCF)	2009	September	-	150	3.83
1616-30 (LLCF)	2009	September	-	142	3.77
1616-30 (LLCF)	2009	September	-	143	3.79
1616-30 (LLCF)	2009	September	-	146	3.75
1616-30 (LLCF)	2009	September	-	146	3.76
1616-30 (LLCF)	2010	June	-	12.1	0.282
1616-30 (LLCF)	2010	June	-	13.0	0.285
1616-30 (LLCF)	2010	June	-	102	2.64
1616-30 (LLCF)	2010	June	-	100	2.60
1616-30 (LLCF)	2010	July	-	135	3.39
1616-30 (LLCF)	2010	July	-	132	3.36
1616-30 (LLCF)	2010	July	-	137	2.85
1616-30 (LLCF)	2010	July	-	136	3.43
1616-30 (LLCF)	2010	July	-	137	3.34
1616-30 (LLCF)	2010	July	-	139	3.26
1616-30 (LLCF)	2010	July	-	144	3.30
1616-30 (LLCF)	2010	July	-	144	3.30
1616-30 (LLCF)	2010	July	-	-	3.48
1616-30 (LLCF)	2010	July	-	-	3.47
1616-30 (LLCF)	2010	August	-	140	3.26
1616-30 (LLCF)	2010	August	-	141	3.29
1616-30 (LLCF)	2010	August	-	145	3.34
1616-30 (LLCF)	2010	August	-	144	3.35
1616-30 (LLCF)	2010	August	-	149	3.31
1616-30 (LLCF)	2010	August	-	148	3.29
1616-30 (LLCF)	2010	August	-	148	3.33
1616-30 (LLCF)	2010	August	-	149	3.32
1616-30 (LLCF)	2010	August	-	156	3.36
1616-30 (LLCF)	2010	August	-	154	3.39
1616-30 (LLCF)	2010	September	-	161	3.25
1616-30 (LLCF)	2010	September	-	161	3.32
1616-30 (LLCF)	2010	September	-	159	3.57
1616-30 (LLCF)	2010	September	-	158	3.61
1616-30 (LLCF)	2010	September	-	156	3.49
1616-30 (LLCF)	2010	September	-	156	3.48
1616-30 (LLCF)	2010	September	-	157	3.54
1616-30 (LLCF)	2010	September	-	155	3.54
1616-30 (LLCF)	2011	June	-	54.3	1.1
1616-30 (LLCF)	2011	June	-	51	1.08
1616-30 (LLCF)	2011	June	-	169	3.84
1616-30 (LLCF)	2011	June	-	168	3.8
1616-30 (LLCF)	2011	June	-	-	3.59
1616-30 (LLCF)	2011	June	-	-	3.53
1616-30 (LLCF)	2011	July	-	137	3.42
1616-30 (LLCF)	2011	July	-	146	3.38
1616-30 (LLCF)	2011	July	-	150	3.35
1616-30 (LLCF)	2011	July	-	148	3.35
1616-30 (LLCF)	2011	July	-	149	3.57
1616-30 (LLCF)	2011	July	-	157	4.01
1616-30 (LLCF)	2011	August	-	138	4.18
1616-30 (LLCF)	2011	August	-	139	4.27
1616-30 (LLCF)	2011	August	-	149	4.19
1616-30 (LLCF)	2011	August	-	159	4.04
1616-30 (LLCF)	2011	August	-	157	4.08
1616-30 (LLCF)	2011	August	-	161	4.1
1616-30 (LLCF)	2011	August	-	144	3.67
1616-30 (LLCF)	2011	August	-	156	3.84
1616-30 (LLCF)	2011	September	-	158	3.56
1616-30 (LLCF)	2011	September	-	159	3.66
1616-30 (LLCF)	2011	September	-	149	3.87
1616-30 (LLCF)	2011	September	-	149	3.68
1616-30 (LLCF)	2011	September	-	159	3.46
1616-43 (KPSF)	2002	June	-	-	-
1616-43 (KPSF)	2002	June	-	-	-
1616-43 (KPSF)	2002	June	-	-	-
1616-43 (KPSF)	2002	August	-	-	5.43
1616-43 (KPSF)	2002	August	-	-	5.24
1616-43 (KPSF)	2002	August	-	-	5.37
1616-43 (KPSF)	2002	September	-	57	7.4
1616-43 (KPSF)	2002	September	-	56	7.4
1616-43 (KPSF)	2002	September	-	55	7.6
1616-43 (KPSF)	2003	June	-	34	<0.006
1616-43 (KPSF)	2003	June	-	33	<0.006
1616-43 (KPSF)	2003	August	-	48	2.03
1616-43 (KPSF)	2003	August	-	50	2.02
1616-43 (KPSF)	2003	September	-	64	2.79
1616-43 (KPSF)	2003	September	-	65	3.4
1616-43 (KPSF)	2004	June	-	49	1.45
1616-43 (KPSF)	2004	June	-	49.1	1.45

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
1616-43 (KPSF)	2004	August	-	66.3	1.17
1616-43 (KPSF)	2004	August	-	65.8	1.18
1616-43 (KPSF)	2004	August	-	-	-
1616-43 (KPSF)	2004	August	-	-	-
1616-43 (KPSF)	2004	September	-	-	-
1616-43 (KPSF)	2004	September	-	71.7	2.03
1616-43 (KPSF)	2004	September	-	72.9	2.04
1616-43 (KPSF)	2005	June	-	23.9	0.415
1616-43 (KPSF)	2005	June	-	24.2	0.410
1616-43 (KPSF)	2005	June	-	-	-
1616-43 (KPSF)	2005	July	-	-	-
1616-43 (KPSF)	2005	August	-	46.8	0.0177
1616-43 (KPSF)	2005	August	-	45.5	0.0171
1616-43 (KPSF)	2005	September	-	45.6	0.0171
1616-43 (KPSF)	2005	September	-	44.7	0.0163
1616-43 (KPSF)	2005	September	-	-	-
1616-43 (KPSF)	2005	September	-	-	-
1616-43 (KPSF)	2005	September	-	59.3	0.277
1616-43 (KPSF)	2006	May	-	29.4	0.246
1616-43 (KPSF)	2006	May	-	29.4	0.246
1616-43 (KPSF)	2006	June	-	56	0.0823
1616-43 (KPSF)	2006	August	-	58.6	0.0076
1616-43 (KPSF)	2006	September	-	65.6	0.0144
1616-43 (KPSF)	2006	September	-	62.7	0.0147
1616-43 (KPSF)	2006	August	-	56.2	0.0118
1616-43 (KPSF)	2006	August	-	55.0	0.0111
1616-43 (KPSF)	2006	September	-	57.9	0.149
1616-43 (KPSF)	2006	September	-	56.6	0.0503
1616-43 (KPSF)	2006	September	-	59.6	0.104
1616-43 (KPSF)	2006	September	-	59.9	0.107
1616-43 (KPSF)	2007	September	-	153	2.03
1616-43 (KPSF)	2007	September	-	154	2.03
1616-43 (KPSF)	2007	June	-	19.3	0.11
1616-43 (KPSF)	2007	August	-	38.5	0.0199
1616-43 (KPSF)	2007	August	-	37.7	0.0222
1616-43 (KPSF)	2007	June	-	17.9	0.141
1616-43 (KPSF)	2007	June	-	18.2	0.148
1616-43 (KPSF)	2007	June	-	27.5	0.0357
1616-43 (KPSF)	2007	July	-	31.6	<0.0050
1616-43 (KPSF)	2007	July	-	32	<0.0050
1616-43 (KPSF)	2007	July	-	33.5	0.0053
1616-43 (KPSF)	2007	July	-	33.6	0.0076
1616-43 (KPSF)	2008	June	-	60.5	0.0275
1616-43 (KPSF)	2008	July	-	77.5	<0.0050
1616-43 (KPSF)	2008	July	-	82	<0.0050
1616-43 (KPSF)	2008	July	-	83.4	<0.0050
1616-43 (KPSF)	2008	July	-	90.9	0.0113
1616-43 (KPSF)	2008	July	-	88.9	0.0112
1616-43 (KPSF)	2008	August	-	94.2	0.0088
1616-43 (KPSF)	2008	August	-	91.7	0.0093
1616-43 (KPSF)	2008	September	-	78.1	0.019
1616-43 (KPSF)	2008	September	-	78.9	0.0184
1616-43 (KPSF)	2008	September	-	81.9	0.0263
1616-43 (KPSF)	2008	September	-	77.7	0.0229
1616-43 (KPSF)	2008	September	-	74.2	0.058
1616-43 (KPSF)	2009	June	-	19.1	0.0606
1616-43 (KPSF)	2009	June	-	40.3	0.0316
1616-43 (KPSF)	2009	June	-	52.8	0.0328
1616-43 (KPSF)	2009	June	-	43.3	<0.0050
1616-43 (KPSF)	2009	July	-	43.8	<0.0050
1616-43 (KPSF)	2009	August	-	46.1	0.0163
1616-43 (KPSF)	2009	August	-	45.2	0.0163
1616-43 (KPSF)	2009	August	-	48.6	0.0174
1616-43 (KPSF)	2009	September	-	51.2	0.007
1616-43 (KPSF)	2009	September	-	49.8	0.0073
1616-43 (KPSF)	2009	September	-	47.3	0.0084
1616-43 (KPSF)	2009	September	-	50.6	0.0102
1616-43 (KPSF)	2009	September	-	199	0.0114
1616-43 (KPSF)	2010	June	-	25.2	0.0318
1616-43 (KPSF)	2010	June	-	24.1	0.0343
1616-43 (KPSF)	2010	July	-	34.7	<0.0050
1616-43 (KPSF)	2010	July	-	35.2	<0.0050
1616-43 (KPSF)	2010	August	-	33.9	0.0064
1616-43 (KPSF)	2010	August	-	34.3	<0.0050
1616-43 (KPSF)	2010	June	-	29.4	0.0208
1616-43 (KPSF)	2010	June	-	29.4	0.0184
1616-43 (KPSF)	2010	June	-	31.8	0.0050
1616-43 (KPSF)	2010	July	-	31.9	<0.0050
1616-43 (KPSF)	2010	July	-	31.6	0.0055
1616-43 (KPSF)	2010	August	-	34.4	0.0101
1616-43 (KPSF)	2010	August	-	34.1	0.0095
1616-43 (KPSF)	2010	August	-	35.2	0.0154
1616-43 (KPSF)	2010	August	-	52.7	0.130
1616-43 (KPSF)	2010	August	-	102	0.478
1616-43 (KPSF)	2010	August	-	103	0.504
1616-43 (KPSF)	2010	August	-	37.4	0.0386
1616-43 (KPSF)	2010	September	-	153	0.884
1616-43 (KPSF)	2010	September	-	148	0.908
1616-43 (KPSF)	2010	September	-	153	0.873
1616-43 (KPSF)	2010	September	-	162	0.898
1616-43 (KPSF)	2011	June	-	48.7	<0.0050
1616-43 (KPSF)	2011	June	-	48.4	<0.0050
1616-43 (KPSF)	2011	July	-	61.7	0.0083
1616-43 (KPSF)	2011	July	-	61.6	0.0079
1616-43 (KPSF)	2011	August	-	9.02	<0.025
1616-43 (KPSF)	2011	August	-	8.95	<0.025
1616-43 (KPSF)	2011	August	-	81.7	0.0284
1616-43 (KPSF)	2011	August	-	83.4	0.0304
1616-43 (KPSF)	2011	September	-	153	0.561
1616-43 (KPSF)	2011	September	-	151	0.555
1616-43 (KPSF)	2011	September	-	150	0.565
1616-43 (KPSF)	2011	September	-	150	0.572
1616-43 (KPSF)	2011	September	-	166	0.601
1616-43 (KPSF)	2011	September	-	168	0.603
Cujo	1999	July	1	4	<0.006
Cujo	1999	July	1	4	<0.006
Cujo	1999	July	1	4	<0.006
Cujo	1999	July	5	4	<0.006
Cujo	1999	July	5	4	<0.006
Cujo	1999	July	5	4	<0.006
Cujo	1999	August	1	4	<0.006
Cujo	1999	August	1	4	<0.006
Cujo	1999	August	1	4	<0.006
Cujo	1999	August	5	4	<0.006
Cujo	1999	August	5	4	<0.006
Cujo	1999	August	5	4	<0.006
Cujo	1999	September	1	5	<0.006
Cujo	1999	September	1	5	<0.006
Cujo	1999	September	1	5	<0.006
Cujo	1999	September	5	5	<0.006
Cujo	1999	September	5	5	<0.006
Cujo	1999	September	5	5	<0.006

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Cujo	2000	July	1	5	<0.006
Cujo	2000	July	1	5	<0.006
Cujo	2000	July	4	5	<0.006
Cujo	2000	July	4	5	<0.006
Cujo	2000	August	1	4	<0.006
Cujo	2000	August	1	4	<0.006
Cujo	2000	August	4	4	<0.006
Cujo	2000	August	4	4	<0.006
Cujo	2000	September	1	5	<0.006
Cujo	2000	September	1	5	<0.006
Cujo	2000	September	4	5	<0.006
Cujo	2000	September	4	5	<0.006
Cujo	2001	July	1	5	<0.006
Cujo	2001	July	1	5	<0.006
Cujo	2001	July	5	5	0.014
Cujo	2001	July	5	5	<0.006
Cujo	2001	August	1	6	<0.006
Cujo	2001	August	1	5	<0.006
Cujo	2001	August	5	5	<0.006
Cujo	2001	August	5	6	<0.006
Cujo	2001	September	1	6	0.057
Cujo	2001	September	1	6	0.057
Cujo	2001	September	7.5	6	0.061
Cujo	2001	September	7.5	6	0.058
Cujo	2002	April	2.5	35	2.74
Cujo	2002	April	2.5	34	2.88
Cujo	2002	April	3	37	3.48
Cujo	2002	April	3	35	2.15
Cujo	2002	July	1	14	0.493
Cujo	2002	July	1	15	0.499
Cujo	2002	July	3	15	0.498
Cujo	2002	July	3	15	0.497
Cujo	2002	August	1	13	0.14
Cujo	2002	August	1	14	0.141
Cujo	2002	August	3	14	0.141
Cujo	2002	August	3	14	0.141
Cujo	2002	September	1	13	<0.006
Cujo	2002	September	1	13	<0.006
Cujo	2002	September	3	13	<0.006
Cujo	2002	September	3	13	<0.006
Cujo	2003	April	2.5	45	2.48
Cujo	2003	April	2.5	45	2.24
Cujo	2003	April	3	44	2.27
Cujo	2003	April	3	45	2.32
Cujo	2003	July	1	19	0.467
Cujo	2003	July	3	19	0.461
Cujo	2003	August	1	23	0.35
Cujo	2003	August	3	23	0.35
Cujo	2003	September	1	27	0.407
Cujo	2003	September	3	27	0.409
Cujo	2004	July	1	22.8	<0.0050
Cujo	2004	July	3	23.1	<0.0050
Cujo	2004	August	1	21.1	<0.0050
Cujo	2004	August	3	21.0	<0.0050
Cujo	2004	September	1	22.3	0.0051
Cujo	2004	September	3	22.4	0.0067
Cujo	2004	September	3	22.6	0.0055
Cujo	2004	April	M	56.9	0.562
Cujo	2004	April	M	58.3	0.597
Cujo	2004	April	B	59.5	0.518
Cujo	2004	April	B	60	0.506
Cujo	2005	April	B	87.5	2.34
Cujo	2005	April	B	84.1	2.45
Cujo	2005	April	M	81.1	1.8
Cujo	2005	April	M	82	1.8
Cujo	2005	July	1	33.6	0.152
Cujo	2005	July	3	32.5	0.146
Cujo	2005	August	1	35.0	<0.005
Cujo	2005	August	3	33.4	<0.005
Cujo	2005	August	3	33.8	<0.005
Cujo	2005	September	1	33.4	<0.005
Cujo	2005	September	3	33.9	<0.005
Cujo	2006	April	6	70.2	0.0217
Cujo	2006	April	6	68.4	0.0209
Cujo	2006	April	4	68.7	0.0261
Cujo	2006	April	4	68.2	0.0255
Cujo	2006	July	1	30.9	<0.0050
Cujo	2006	July	3	31.2	<0.0050
Cujo	2006	August	1	33.5	<0.0050
Cujo	2006	August	3	33.6	<0.0050
Cujo	2006	September	1	34.0	<0.0050
Cujo	2006	September	3	35.9	<0.0050
Cujo	2007	July	1	28	<0.0050
Cujo	2007	July	5	32.9	<0.0050
Cujo	2007	July	5	30.4	<0.0050
Cujo	2007	August	1	30.7	<0.0050
Cujo	2007	August	1	31.2	<0.0050
Cujo	2007	August	1	31.1	<0.0050
Cujo	2007	August	5	56.3	<0.0050
Cujo	2007	August	5	34.8	<0.0050
Cujo	2007	August	5	33.1	<0.0050
Cujo	2007	April	5	76.7	0.173
Cujo	2007	April	5	75.3	0.160
Cujo	2007	April	8	80.1	0.180
Cujo	2007	April	8	80.6	0.178
Cujo	2007	September	1	33	<0.0050
Cujo	2007	September	5	31	<0.0050
Cujo	2008	April	3	66.4	0.0612
Cujo	2008	April	3	67.1	0.0618
Cujo	2008	April	5	68.9	0.0498
Cujo	2008	April	5	65.8	0.0575
Cujo	2008	July	1	31.2	<0.0050
Cujo	2008	July	3	28.6	<0.0050
Cujo	2008	August	1	32	<0.0050
Cujo	2008	August	1	31.2	<0.0050
Cujo	2008	August	1	30.1	<0.0050
Cujo	2008	August	3.5	33	<0.0050
Cujo	2008	August	3.5	30.2	<0.0050
Cujo	2008	August	3.5	32.6	<0.0050
Cujo	2008	September	1	30	<0.0050
Cujo	2008	September	mid	30.4	<0.0050
Cujo	2009	April	3	82.5	0.0853
Cujo	2009	April	3	83.5	0.0862
Cujo	2009	April	5	85.6	0.0838
Cujo	2009	April	5	83.4	0.084
Cujo	2009	July	1	35.9	<0.0050
Cujo	2009	July	3.5	35.7	<0.0050
Cujo	2009	August	1	31.1	<0.0050
Cujo	2009	August	1	33.9	<0.0050
Cujo	2009	August	1	32	<0.0050
Cujo	2009	August	3	31.7	<0.0050
Cujo	2009	August	3	33.5	<0.0050

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Cujo	2009	August	3	31.1	<0.0050
Cujo	2009	September	1	35.5	<0.0050
Cujo	2009	September	2.5	34.9	<0.0050
Cujo	2010	August	1	28.1	<0.0050
Cujo	2010	August	1	29.2	<0.0050
Cujo	2010	August	1	29.2	<0.0050
Cujo	2010	August	3	29.2	<0.0050
Cujo	2010	August	3	29.1	<0.0050
Cujo	2010	August	3	29.0	<0.0050
Cujo	2010	April	4.5	74.5	0.0985
Cujo	2010	April	4.5	81.6	0.0948
Cujo	2010	April	3	78.9	0.0787
Cujo	2010	April	3	78.1	0.0826
Cujo	2011	August	1	39.5	<0.0050
Cujo	2011	August	1	37	<0.0050
Cujo	2011	August	1	37	<0.0050
Cujo	2011	August	3	37.3	<0.0050
Cujo	2011	August	3	37.5	<0.0050
Cujo	2011	August	3.2	37.1	<0.0050
LDS1	2000	July	1	4	<0.006
LDS1	2000	July	1	4	<0.006
LDS1	2000	July	4	4	<0.006
LDS1	2000	July	4	4	<0.006
LDS1	2000	August	1	4	<0.006
LDS1	2000	August	1	4	<0.006
LDS1	2000	August	4	4	<0.006
LDS1	2000	August	4	3	<0.006
LDS1	2000	September	1	4	<0.006
LDS1	2000	September	1	4	<0.006
LDS1	2000	September	4	4	<0.006
LDS1	2000	September	4	4	<0.006
LDS1	2001	July	1	4	<0.006
LDS1	2001	July	1	4	0.026
LDS1	2001	July	4	4	0.015
LDS1	2001	July	4	4	0.015
LDS1	2001	August	1	4	<0.006
LDS1	2001	August	1	4	<0.006
LDS1	2001	August	4	4	<0.006
LDS1	2001	August	4	4	<0.006
LDS1	2001	September	1	4	<0.006
LDS1	2001	September	1	4	<0.006
LDS1	2001	September	4	4	<0.006
LDS1	2001	September	4	4	<0.006
LDS1	2002	July	1	4	<0.006
LDS1	2002	July	1	4	<0.006
LDS1	2002	July	4	4	<0.006
LDS1	2002	July	4	4	<0.006
LDS1	2002	August	1	4	<0.006
LDS1	2002	August	1	4	<0.006
LDS1	2002	August	4	4	<0.006
LDS1	2002	August	4	4	<0.006
LDS1	2002	September	1	4	<0.006
LDS1	2002	September	1	4	<0.006
LDS1	2002	September	4	4	<0.006
LDS1	2002	September	4	4	<0.006
LDS1	2002	April	3.5	7	0.045
LDS1	2002	April	3.5	7	0.04
LDS1	2002	April	5	6	0.063
LDS1	2002	April	5	7	0.045
LDS1	2003	July	1	4	<0.006
LDS1	2003	July	4	4	<0.006
LDS1	2003	July	4	4	<0.006
LDS1	2003	August	1	5	<0.006
LDS1	2003	August	4	5	<0.006
LDS1	2003	September	1	4	<0.006
LDS1	2003	September	4	4	<0.006
LDS1	2003	April	3.5	7	<0.006
LDS1	2003	April	3.5	7	<0.006
LDS1	2003	April	5	7	<0.006
LDS1	2003	April	5	7	0.009
LDS1	2004	July	1	4.62	<0.0050
LDS1	2004	July	4	4.4	<0.0050
LDS1	2004	August	1	4.23	<0.0050
LDS1	2004	August	4	4.17	<0.0050
LDS1	2004	September	1	4.12	<0.0050
LDS1	2004	September	4	4.17	<0.0050
LDS1	2004	April	M	7.9	0.0327
LDS1	2004	April	M	7.9	0.0323
LDS1	2004	April	B	7.2	0.0335
LDS1	2004	April	B	7.6	0.0319
LDS1	2005	July	1	4.07	<0.005
LDS1	2005	July	4	4.12	<0.005
LDS1	2005	August	1	4.29	<0.005
LDS1	2005	August	4	4.32	<0.005
LDS1	2005	September	1	4.24	<0.005
LDS1	2005	September	4	4.05	<0.005
LDS1	2005	April	B	6.9	0.0517
LDS1	2005	April	B	6.93	0.0497
LDS1	2005	April	M	7.31	0.043
LDS1	2005	April	M	7.31	<0.0050
LDS1	2006	April	6	5.07	0.0077
LDS1	2006	April	6	4.98	0.0073
LDS1	2006	April	4	5.59	0.0055
LDS1	2006	April	4	5.69	<0.0050
LDS1	2006	July	1	4.14	<0.0050
LDS1	2006	July	4	4.22	<0.0050
LDS1	2006	August	1	4.27	<0.0050
LDS1	2006	August	4	4.51	<0.0050
LDS1	2006	September	1	4.35	<0.0050
LDS1	2006	September	4	4.36	<0.0050
LDS1	2007	July	1	4.36	<0.0050
LDS1	2007	July	4	4.47	<0.0050
LDS1	2007	August	1	4.26	<0.0050
LDS1	2007	August	1	4.35	<0.0050
LDS1	2007	August	1	4.34	<0.0050
LDS1	2007	August	4	4.22	<0.0050
LDS1	2007	August	4	4.2	<0.0050
LDS1	2007	August	4	4.16	<0.0050
LDS1	2007	April	4	9.7	0.0516
LDS1	2007	April	4	8.59	0.0850
LDS1	2007	April	6	7.49	0.0977
LDS1	2007	April	6	8.88	0.104
LDS1	2007	September	1	4.61	<0.0050
LDS1	2008	April	4	5.93	0.0289
LDS1	2008	April	4	5.91	0.0276
LDS1	2008	July	1	4.52	<0.0050
LDS1	2008	July	4	4.35	<0.0050
LDS1	2008	August	1	4.44	<0.0050
LDS1	2008	August	1	4.27	<0.0050
LDS1	2008	August	1	4.33	<0.0050
LDS1	2008	August	3.5	4.3	<0.0050
LDS1	2008	August	3.5	4.28	<0.0050

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
LDS1	2008	August	3.5	4.75	0.0112
LDS1	2008	September	1 m	4.39	<0.0050
LDS1	2008	September	Mid	4.4	<0.0050
LDS1	2009	April	4	6.97	0.0164
LDS1	2009	April	4	7.07	0.0136
LDS1	2009	April	6	6.77	0.028
LDS1	2009	April	6	6.83	0.0287
LDS1	2009	July	1	4.98	<0.0050
LDS1	2009	July	mid	4.7	<0.0050
LDS1	2009	August	1	4.35	0.021
LDS1	2009	August	1	4.35	<0.0050
LDS1	2009	August	1	4.45	<0.0050
LDS1	2009	August	4	4.31	<0.0050
LDS1	2009	August	4	4.39	<0.0050
LDS1	2009	August	4	4.4	<0.0050
LDS1	2009	September	3.5	4.38	<0.0050
LDS1	2009	September	1	4.27	<0.0050
LDS1	2010	August	1	4.24	<0.0050
LDS1	2010	August	1	4.24	<0.0050
LDS1	2010	August	1	4.22	<0.0050
LDS1	2010	August	3.5	4.22	<0.0050
LDS1	2010	August	3.5	4.24	<0.0050
LDS1	2010	August	3.5	4.44	<0.0050
LDS1	2010	April	6	6.31	0.0506
LDS1	2010	April	6	6.34	0.0502
LDS1	2010	April	4	7.17	0.0506
LDS1	2010	April	4	7.12	0.0482
LdS1	2011	August	1	4.54	<0.0050
LdS1	2011	August	1	4.59	0.0093
LdS1	2011	August	1	4.54	<0.0050
LdS1	2011	August	4	4.52	<0.0050
LdS1	2011	August	4	4.5	<0.0050
LdS1	2011	April	4	5.5	0.0199
LdS1	2011	April	4	5.81	0.0243
LdS1	2011	April	6	6.14	0.034
LdS1	2011	April	6	5.88	0.0336
LDS2	2000	July	1	3	<0.006
LDS2	2000	July	1	3	<0.006
LDS2	2000	August	1	3	<0.006
LDS2	2000	August	1	3	<0.006
LDS2	2000	September	1	4	<0.006
LDS2	2000	September	1	4	0.007
LDS2	2001	July	1	4	0.04
LDS2	2001	July	1	5	<0.006
LDS2	2001	August	1	4	<0.006
LDS2	2001	August	1	4	<0.006
LDS2	2001	September	1	4	<0.006
LDS2	2001	September	1	4	<0.006
LDS2	2001	September	1	4	<0.006
LDS2	2001	September	1	4	<0.006
LDS2	2002	July	1	5	<0.006
LDS2	2002	July	1	4	<0.006
LDS2	2002	July	1	4	<0.006
LDS2	2002	July	1	5	<0.006
LDS2	2002	August	1	4	<0.006
LDS2	2002	August	1	4	<0.006
LDS2	2002	August	1	4	<0.006
LDS2	2002	August	1	4	<0.006
LDS2	2002	September	1	4	<0.006
LDS2	2002	September	1	4	<0.006
LDS2	2002	September	1	4	<0.006
LDS2	2002	September	1	4	<0.006
LDS2	2002	September	4	4.63	<0.0050
LDS2	2008	July	1	4.87	<0.0050
LDS2	2008	July	1	4.86	<0.0050
LDS2	2008	August	1	4.76	<0.0050
LDS2	2008	August	1	4.47	<0.0050
LDS2	2008	August	1	4.05	<0.0050
LDS2	2008	September	1	4.91	<0.0050
LDS2	2008	September	1	4.88	<0.0050
LDS2	2009	July	1	4.72	<0.0050
LDS2	2009	July	1	4.91	<0.0050
LDS2	2009	August	1	4.61	<0.0050
LDS2	2009	August	1	4.54	<0.0050
LDS2	2009	August	1	4.51	<0.0050
LDS2	2009	September	1	4.42	<0.0050
LDS2	2009	September	1	4.34	<0.0050
LDS2	2010	August	1	4.43	<0.0050
LDS2	2010	August	1	4.33	<0.0050
LDS2	2010	August	1	4.34	<0.0050
LdS1	2011	August	4	4.5	<0.0050
LdS2	2011	August	1	4.9	0.0893
LdS2	2011	August	1	4.79	0.0141
LdS2	2011	August	1	4.74	0.0098
Leslie	1994	August	0	4.36	0.036
Leslie	1994	August	2	4.41	<0.005
Leslie	1994	August	4	4.37	<0.005
Leslie	1994	August	6	4.33	0.008
Leslie	1994	August	8	4.34	<0.005
Leslie	1995	August	-	-	-

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Leslie	1996	August	-	-	-
Leslie	1997	August	-	-	-
Leslie	1998	September	-	-	-
Leslie	2003	July	1	33	0.802
Leslie	2003	July	6	33	0.795
Leslie	2003	August	1	36	0.675
Leslie	2003	August	6	35	0.667
Leslie	2003	September	1	38	0.548
Leslie	2003	September	5	38	0.616
Leslie	2003	April	6	46	1.11
Leslie	2003	April	6	48	1.23
Leslie	2003	April	10	53	1.31
Leslie	2003	April	10	48	1.31
Leslie	2004	July	1	49.2	1.03
Leslie	2004	July	6	51.0	1.07
Leslie	2004	July	6	50.8	1.08
Leslie	2004	August	1	53.4	1.11
Leslie	2004	August	6	53.3	1.12
Leslie	2004	September	1	56.1	1.06
Leslie	2004	September	6	55.9	1.05
Leslie	2004	April	M	84.2	2.42
Leslie	2004	April	M	86.5	2.51
Leslie	2004	April	B	90.6	2.35
Leslie	2004	April	B	89.2	2.33
Leslie	2005	April	B	158	3.41
Leslie	2005	April	B	154	3.38
Leslie	2005	April	M	141	3.28
Leslie	2005	April	M	135	3.3
Leslie	2005	July	1	104	2.62
Leslie	2005	July	6	107	2.66
Leslie	2005	July	6	105	2.67
Leslie	2005	August	1	107	2.30
Leslie	2005	August	6	111	2.29
Leslie	2005	September	1	101	1.97
Leslie	2005	September	6	100	1.96
Leslie	2006	April	11	184	2.99
Leslie	2006	April	11	181	2.99
Leslie	2006	April	6	14.4	2.94
Leslie	2006	April	6	171	2.93
Leslie	2006	July	1	116	2.51
Leslie	2006	July	6	121	2.52
Leslie	2006	August	1	137	2.77
Leslie	2006	August	6	136	2.77
Leslie	2006	September	1	126	2.58
Leslie	2006	September	5	130	2.59
Leslie	2007	July	1	4.28	2.94
Leslie	2007	July	6	4.4	3.62
Leslie	2007	August	1	142	3.18
Leslie	2007	August	1	143	3.18
Leslie	2007	August	1	146	3.18
Leslie	2007	August	6	142	3.19
Leslie	2007	August	6	144	3.19
Leslie	2007	August	6	148	3.18
Leslie	2007	April	6	225	5.40
Leslie	2007	April	6	234	5.37
Leslie	2007	April	10	257	5.65
Leslie	2007	April	10	241	5.62
Leslie	2007	September	1	154	3.32
Leslie	2007	September	1	152	3.32
Leslie	2007	September	6	150	3.32
Leslie	2008	April	6	270	6.06
Leslie	2008	April	6	276	6
Leslie	2008	April	11	284	6.29
Leslie	2008	April	11	284	6.33
Leslie	2008	July	1	132	2.55
Leslie	2008	July	6.5	125	2.54
Leslie	2008	August	1	140	2.37
Leslie	2008	August	1	137	2.46
Leslie	2008	August	1	137	2.47
Leslie	2008	August	6	133	2.38
Leslie	2008	August	6	147	2.48
Leslie	2008	August	6	147	2.48
Leslie	2008	September	1	124	1.98
Leslie	2008	September	mid	123	1.99
Leslie	2009	April	6	206	5.47
Leslie	2009	April	6	206	5.46
Leslie	2009	April	11	227	5.63
Leslie	2009	April	11	220	5.64
Leslie	2009	July	1	132	2.76
Leslie	2009	July	5	137	2.75
Leslie	2009	August	1	132	2.87
Leslie	2009	August	1	126	2.86
Leslie	2009	August	1	137	2.86
Leslie	2009	August	4.5	130	2.8
Leslie	2009	August	4.5	125	2.87
Leslie	2009	August	4.5	133	2.87
Leslie	2009	September	1	146	2.89
Leslie	2009	September	5.5	144	2.9
Leslie	2010	August	6.5	126	2.61
Leslie	2010	August	1	127	2.61
Leslie	2010	August	1	125	2.47
Leslie	2010	August	1	126	2.59
Leslie	2010	August	6.5	128	2.60
Leslie	2010	August	6.5	128	2.62
Leslie	2010	August	11	126	2.61
Leslie	2010	August	10	127	2.61
Leslie	2010	August	1	125	2.47
Leslie	2010	August	1	126	2.59
Leslie	2010	April	10.5	219	4.35
Leslie	2010	April	10.5	223	4.31
Leslie	2010	April	6	214	4.29
Leslie	2010	April	6	213	4.28
Leslie	2011	August	1	128	3.27
Leslie	2011	August	1	128	3.26
Leslie	2011	August	1	127	3.28
Leslie	2011	August	6.5	126	3.27
Leslie	2011	August	6.5	127	3.28
Leslie	2011	August	6.5	126	3.25
Leslie	2011	April	6	235	4.55
Leslie	2011	April	6	238	4.5
Leslie	2011	April	11	249	4.61
Leslie	2011	April	11	250	4.58
Moose	1994	July	1	3.45	<0.005
Moose	1994	July	3	2.38	<0.005
Moose	1994	July	5	2.61	<0.005
Moose	1994	July	7	3.14	<0.005
Moose	1994	July	9	4.21	<0.005
Moose	1994	August	1	4.47	0.005
Moose	1994	August	2	4.47	0.005
Moose	1994	August	4	4.43	0.006
Moose	1994	August	6	4.47	<0.005
Moose	1994	August	8	4.46	<0.005

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Moose	1996	April	1	9.7	0.045
Moose	1996	August	1	4.28	<0.005
Moose	1996	August	4	4.18	<0.005
Moose	1996	August	8	4.15	<0.005
Moose	1997	August	1	4.89	0.003
Moose	1997	August	4	4.93	0.002
Moose	1997	August	8	4.92	0.004
Moose	1998	July	1	4	0.009
Moose	1998	July	1	4	0.01
Moose	1998	July	1	4	0.017
Moose	1998	July	5	4	0.009
Moose	1998	July	5	4	0.009
Moose	1998	July	5	4	0.01
Moose	1998	July	1	5	0.007
Moose	1998	July	1	4	0.006
Moose	1998	July	1	4	<0.006
Moose	1998	July	5	4	0.01
Moose	1998	July	5	4	0.011
Moose	1998	July	5	4	0.007
Moose	1998	August	1	5	0.018
Moose	1998	August	1	5	0.017
Moose	1998	August	1	5	0.019
Moose	1998	August	5	5	0.017
Moose	1998	August	5	5	0.017
Moose	1998	August	5	5	0.017
Moose	1998	August	1	5	0.018
Moose	1998	August	1	5	0.018
Moose	1998	August	1	4	0.019
Moose	1998	August	5	5	0.018
Moose	1998	August	5	5	0.017
Moose	1998	August	5	5	0.017
Moose	1998	September	1	5	0.028
Moose	1998	September	1	5	0.027
Moose	1998	September	1	5	0.026
Moose	1998	September	5	5	0.026
Moose	1998	September	5	5	0.034
Moose	1998	September	5	5	0.042
Moose	1999	July	1	6	0.306
Moose	1999	July	1	6	0.235
Moose	1999	July	1	6	0.239
Moose	1999	July	5	6	0.299
Moose	1999	July	5	6	0.229
Moose	1999	July	5	6	0.281
Moose	1999	August	1	6	0.344
Moose	1999	August	1	6	0.342
Moose	1999	August	1	6	0.338
Moose	1999	August	5	6	0.335
Moose	1999	August	5	6	0.334
Moose	1999	August	5	6	0.337
Moose	1999	September	1	8	0.466
Moose	1999	September	1	8	0.464
Moose	1999	September	1	8	0.466
Moose	1999	September	5	8	0.458
Moose	1999	September	5	8	0.467
Moose	1999	September	5	8	0.458
Moose	2000	July	1	10	0.479
Moose	2000	July	1	10	0.473
Moose	2000	July	4	10	0.464
Moose	2000	July	4	10	0.472
Moose	2000	August	1	10	0.56
Moose	2000	August	1	10	0.554
Moose	2000	August	4	11	0.539
Moose	2000	August	4	11	0.526
Moose	2000	September	1	14	0.668
Moose	2000	September	1	14	0.697
Moose	2000	September	4	14	0.63
Moose	2000	September	4	14	0.664
Moose	2001	July	1	18	0.712
Moose	2001	July	1	18	0.672
Moose	2001	July	5	18	0.658
Moose	2001	July	5	18	0.701
Moose	2001	August	1	18	0.767
Moose	2001	August	1	18	0.77
Moose	2001	August	5	18	0.758
Moose	2001	August	5	18	0.76
Moose	2001	September	1	21	0.706
Moose	2001	September	1	21	0.549
Moose	2001	September	5	21	0.602
Moose	2001	September	5	21	0.563
Moose	2002	July	1	18	0.309
Moose	2002	July	1	18	0.309
Moose	2002	July	5	19	0.447
Moose	2002	July	5	19	0.433
Moose	2002	August	1	27	0.541
Moose	2002	August	1	27	0.547
Moose	2002	August	5	27	0.535
Moose	2002	August	5	27	0.547
Moose	2002	September	1	29	0.742
Moose	2002	September	1	31	0.753
Moose	2002	September	5	30	0.74
Moose	2002	September	5	29	0.759
Moose	2002	April	4.5	43	1.51
Moose	2002	April	4.5	43	1.55
Moose	2002	April	7	35	1.35
Moose	2002	April	7	42	1.41
Moose	2003	April	4.5	47	1.32
Moose	2003	April	4.5	44	1.17
Moose	2003	April	7.5	45	1.27
Moose	2003	July	1	30	0.452
Moose	2003	July	6	30	0.538
Moose	2003	August	1	33	0.51
Moose	2003	August	6	33	0.51
Moose	2003	August	6	34	0.511
Moose	2003	September	1	37	0.495
Moose	2003	September	5	37	0.494
Moose	2003	April	7.5	48	1.34
Moose	2004	April	M	97.8	2.81
Moose	2004	April	M	99.6	2.81
Moose	2004	April	B	100	2.73
Moose	2004	April	B	101	2.75
Moose	2004	July	1	44.2	0.874
Moose	2004	July	5	41.4	0.886
Moose	2004	August	1	54.6	0.977
Moose	2004	August	5	53.7	0.990
Moose	2004	August	5	52.4	0.983
Moose	2004	September	1	53.7	0.953
Moose	2004	September	5	54.8	0.956
Moose	2005	July	1	81.3	1.94
Moose	2005	July	5	85.9	2.05
Moose	2005	July	5	89.6	2.08
Moose	2005	August	1	63.2	1.06
Moose	2005	August	5	65.0	1.07

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Moose	2005	September	1	49.0	0.653
Moose	2005	September	5	48.8	0.665
Moose	2005	April	B	125	3.15
Moose	2005	April	B	118	3.12
Moose	2005	April	M	126	3.21
Moose	2005	April	M	124	3.21
Moose	2006	April	8	157	2.82
Moose	2006	April	8	157	2.82
Moose	2006	April	5	156	2.90
Moose	2006	April	5	14.8	2.91
Moose	2006	July	1	115	2.41
Moose	2006	July	1	113	2.38
Moose	2006	July	5	111	2.34
Moose	2006	August	5	130	2.63
Moose	2006	August	5	131	2.66
Moose	2006	September	1	127	2.27
Moose	2006	September	1	122	2.29
Moose	2006	September	4	126	2.29
Moose	2007	July	1	123	2.79
Moose	2007	July	5	148	3.63
Moose	2007	August	1	153	3.03
Moose	2007	August	1	154	3.03
Moose	2007	August	1	153	3.03
Moose	2007	August	5	155	3.05
Moose	2007	August	5	151	3.04
Moose	2007	August	5	153	3.04
Moose	2007	April	5	218	5.25
Moose	2007	April	5	219	5.26
Moose	2007	April	8	230	5.16
Moose	2007	April	8	221	5.19
Moose	2007	September	1	151	3.17
Moose	2007	September	5	150	3.17
Moose	2008	April	5	274	5.94
Moose	2008	April	5	277	6.04
Moose	2008	April	8	274	5.83
Moose	2008	April	8	280	5.87
Moose	2008	July	1	68.8	1.04
Moose	2008	July	5	66	1.06
Moose	2008	August	5	74.3	0.977
Moose	2008	August	5	68.5	0.968
Moose	2008	August	5	72	0.969
Moose	2008	August	1	74.2	0.975
Moose	2008	August	1	73.1	0.966
Moose	2008	August	1	81.4	0.963
Moose	2008	September	1	113	1.65
Moose	2008	September	1	113	1.64
Moose	2008	September	mid	114	1.65
Moose	2009	April	5	214	5.11
Moose	2009	April	5	222	5.11
Moose	2009	April	8	224	5.02
Moose	2009	April	8	214	5
Moose	2009	July	1	69.8	1.15
Moose	2009	July	4.5	73.2	1.21
Moose	2009	August	1	116	2.53
Moose	2009	August	1	122	2.55
Moose	2009	August	1	124	2.56
Moose	2009	August	4.5	124	2.54
Moose	2009	August	4.5	124	2.54
Moose	2009	August	4.5	118	2.53
Moose	2009	September	1	131	2.69
Moose	2009	September	mid	129	2.7
Moose	2010	August	1	121	2.35
Moose	2010	August	3.5	121	2.34
Moose	2010	August	1	125	2.33
Moose	2010	August	1	125	2.33
Moose	2010	August	3.5	124	2.33
Moose	2010	August	3.5	123	2.33
Moose	2010	April	8	214	4.2
Moose	2010	April	8	202	4.21
Moose	2010	April	5	210	4.31
Moose	2010	April	5	209	4.32
Moose	2011	August	1	137	3.23
Moose	2011	August	1	138	3.22
Moose	2011	August	1	140	3.16
Moose	2011	August	4.25	140	3.21
Moose	2011	August	4.4	138	3.22
Moose	2011	August	4	141	3.22
Moose	2011	April	5	213	4.16
Moose	2011	April	5	214	4.24
Moose	2011	April	8	215	4.15
Moose	2011	April	8	217	4.16
Nema	1995	August	1	4.88	<0.005
Nema	1995	August	3	4.84	<0.005
Nema	1995	August	5	4.69	<0.005
Nema	1995	August	7	4.76	<0.005
Nema	1995	August	9	4.68	<0.005
Nema	1996	April	1	10.2	0.237
Nema	1996	August	1	4.59	<0.005
Nema	1996	August	4	4.6	<0.005
Nema	1996	August	7	4.61	<0.005
Nema	1997	August	1	5.5	0.009
Nema	1997	August	3	5.49	0.007
Nema	1997	August	7	5.55	0.001
Nema	1998	July	1	5	<0.006
Nema	1998	July	1	5	<0.006
Nema	1998	July	1	5	<0.006
Nema	1998	July	4	5	<0.006
Nema	1998	July	4	5	<0.006
Nema	1998	July	4	5	<0.006
Nema	1998	July	1	5	0.007
Nema	1998	July	1	5	<0.006
Nema	1998	July	1	5	<0.006
Nema	1998	July	4	5	<0.006
Nema	1998	July	4	5	<0.006
Nema	1998	July	4	5	<0.006
Nema	1998	August	1	6	<0.006
Nema	1998	August	1	6	<0.006
Nema	1998	August	1	6	<0.006
Nema	1998	August	4	6	<0.006
Nema	1998	August	4	6	0.006
Nema	1998	August	4	6	<0.006
Nema	1998	August	1	5	<0.006
Nema	1998	August	1	5	<0.006
Nema	1998	August	1	6	<0.006
Nema	1998	August	4	6	<0.006
Nema	1998	August	4	5	<0.006
Nema	1998	August	4	5	<0.006
Nema	1998	September	1	6	<0.006
Nema	1998	September	1	6	<0.006
Nema	1998	September	1	6	<0.006
Nema	1998	September	4	6	<0.006
Nema	1998	September	4	6	<0.006

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Nema	1998	September	4	6	<0.006
Nema	1999	July	1	4	0.018
Nema	1999	July	1	4	0.021
Nema	1999	July	1	4	0.02
Nema	1999	July	4	4	0.018
Nema	1999	July	4	4	0.019
Nema	1999	July	4	4	0.021
Nema	1999	August	1	5	<0.006
Nema	1999	August	1	5	<0.006
Nema	1999	August	1	5	<0.006
Nema	1999	August	4	5	<0.006
Nema	1999	August	4	5	<0.006
Nema	1999	August	4	5	<0.006
Nema	1999	September	1	6	0.028
Nema	1999	September	1	6	0.025
Nema	1999	September	1	6	0.024
Nema	1999	September	4	6	0.023
Nema	1999	September	4	6	0.025
Nema	1999	September	4	6	0.025
Nema	2000	July	1	6	0.109
Nema	2000	July	1	6	0.108
Nema	2000	July	4	6	0.105
Nema	2000	July	4	6	0.106
Nema	2000	August	1	6	<0.006
Nema	2000	August	1	6	<0.006
Nema	2000	August	4	6	<0.006
Nema	2000	August	4	6	<0.006
Nema	2000	September	1	7	0.007
Nema	2000	September	1	7	<0.006
Nema	2000	September	4	7	<0.006
Nema	2000	September	4	7	<0.006
Nema	2001	July	1	7	0.055
Nema	2001	July	4	7	0.054
Nema	2001	July	4	7	0.053
Nema	2001	August	1	8	0.025
Nema	2001	August	1	8	0.029
Nema	2001	August	4	8	0.03
Nema	2001	August	4	8	0.029
Nema	2001	September	1	13	0.202
Nema	2001	September	1	13	0.204
Nema	2001	September	4	13	0.206
Nema	2001	September	4	13	0.207
Nema	2002	April	5	29	0.449
Nema	2002	April	5	29	0.428
Nema	2002	April	7	31	0.423
Nema	2002	April	7	31	0.453
Nema	2002	July	1	15	0.066
Nema	2002	July	1	15	0.068
Nema	2002	July	4	15	0.076
Nema	2002	July	4	15	0.073
Nema	2002	August	1	14	<0.006
Nema	2002	August	1	14	<0.006
Nema	2002	August	4	15	<0.006
Nema	2002	August	4	15	<0.006
Nema	2002	September	1	14	0.016
Nema	2002	September	1	14	0.017
Nema	2002	September	4	18	0.017
Nema	2002	September	4	16	0.016
Nema	2003	April	4.5	28	0.277
Nema	2003	April	4.5	31	0.287
Nema	2003	April	7	31	0.293
Nema	2003	April	7	34	0.304
Nema	2003	July	1	14	0.048
Nema	2003	July	4	14	0.049
Nema	2003	August	1	16	<0.006
Nema	2003	August	4	15	<0.006
Nema	2003	September	1	15	<0.006
Nema	2003	September	4	15	<0.006
Nema	2003	September	4	15	<0.006
Nema	2004	July	1	19.6	0.101
Nema	2004	July	4	20	0.128
Nema	2004	August	1	25.3	0.170
Nema	2004	August	4	25.7	0.171
Nema	2004	September	1	28.9	0.172
Nema	2004	September	4	29.8	0.172
Nema	2004	April	M	43.3	0.453
Nema	2004	April	M	43	0.448
Nema	2004	April	B	45.6	0.453
Nema	2004	April	B	45.1	0.457
Nema	2005	April	B	85.4	1.11
Nema	2005	April	B	87.8	1.11
Nema	2005	April	M	80.6	1.18
Nema	2005	April	M	81.5	1.17
Nema	2005	July	1	50.0	0.807
Nema	2005	July	4	50.0	0.806
Nema	2005	August	1	54.3	0.592
Nema	2005	August	4	51.1	0.588
Nema	2005	September	1	52.3	0.437
Nema	2005	September	4	51.8	0.455
Nema	2006	April	7	93.0	0.545
Nema	2006	April	7	94.1	0.546
Nema	2006	April	5	86.3	0.600
Nema	2006	April	5	86.9	0.605
Nema	2006	July	1	27.6	0.106
Nema	2006	July	5	27.5	0.107
Nema	2006	August	1	57.4	0.567
Nema	2006	August	5	54.4	0.528
Nema	2006	September	1	58.9	0.528
Nema	2006	September	4	57.8	0.528
Nema	2006	September	4	56.9	0.524
Nema	2007	July	1	46.4	0.452
Nema	2007	July	5	47.1	0.455
Nema	2007	July	5	46.8	0.462
Nema	2007	August	1	65.2	0.685
Nema	2007	August	1	65.1	0.686
Nema	2007	August	1	66.3	0.691
Nema	2007	August	5	65.1	0.684
Nema	2007	August	5	65.8	0.683
Nema	2007	August	5	64.7	0.687
Nema	2007	April	4	149	1.80
Nema	2007	April	4	143	1.81
Nema	2007	April	7	151	1.77
Nema	2007	April	7	159	1.75
Nema	2007	September	1	81	0.882
Nema	2007	September	4	81	0.880
Nema	2008	April	4	232	2.3
Nema	2008	April	4	230	2.24
Nema	2008	April	7	238	2.24
Nema	2008	April	7	240	2.22
Nema	2008	July	1	76.2	0.68
Nema	2008	July	4.5	80.2	0.677
Nema	2008	August	1	77	0.521

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Nema	2008	August	1	78.3	0.521
Nema	2008	August	1	79	0.525
Nema	2008	August	4	76.4	0.53
Nema	2008	August	4	79.2	0.523
Nema	2008	August	4	78.3	0.522
Nema	2008	September	1	66.7	0.466
Nema	2008	September	mid	65.3	0.464
Nema	2009	April	4	95	0.774
Nema	2009	April	4	96.8	0.761
Nema	2009	April	7	103	0.723
Nema	2009	April	7	106	0.723
Nema	2009	July	1	36.7	0.254
Nema	2009	July	4	37.3	0.242
Nema	2009	August	1	47.8	0.368
Nema	2009	August	1	49	0.371
Nema	2009	August	1	48.4	0.366
Nema	2009	August	4	44.8	0.368
Nema	2009	August	5	46.1	0.367
Nema	2009	August	3	45.1	0.362
Nema	2009	September	1	55	0.278
Nema	2009	September	4.5	50.5	0.274
Nema	2010	August	4.5	46.2	0.195
Nema	2010	August	4.5	46.7	0.195
Nema	2010	August	4.5	45.6	0.195
Nema	2010	August	1	45.2	0.195
Nema	2010	August	1	45.3	0.196
Nema	2010	August	1	45.0	0.196
Nema	2010	April	6.5	109	0.602
Nema	2010	April	6.5	107	0.62
Nema	2010	April	4	103	0.689
Nema	2010	April	4	103	0.668
Nema	2011	August	1	59.3	0.23
Nema	2011	August	1	59.1	0.22
Nema	2011	August	1	59.3	0.22
Nema	2011	August	4	60.1	0.255
Nema	2011	August	4	59.5	0.241
Nema	2011	August	4	59.7	0.245
Nema	2011	April	4	122	0.991
Nema	2011	April	4	123	1.02
Nema	2011	April	7	131	0.94
Nema	2011	April	7	131	0.952
S2	1994	July	5	3.73	<0.005
S2	1994	August	4	3.86	<0.005
S2	1997	August	1		0.002
S2	1998	July	1	4	0.006
S2	1998	July	1	4	<0.006
S2	1998	July	1	4	<0.006
S2	1998	July	2	4	<0.006
S2	1998	July	2	3	<0.006
S2	1998	July	2	3	<0.006
S2	1998	July	1	4	<0.006
S2	1998	July	1	4	<0.006
S2	1998	July	1	4	<0.006
S2	1998	July	2	4	<0.006
S2	1998	July	2	4	<0.006
S2	1998	July	2	4	<0.006
S2	1998	August	1	4	0.008
S2	1998	August	1	4	0.007
S2	1998	August	1	4	0.007
S2	1998	August	2	4	0.007
S2	1998	August	2	4	0.008
S2	1998	August	1	4	<0.006
S2	1998	August	1	4	<0.006
S2	1998	August	1	4	<0.006
S2	1998	August	1	4	<0.006
S2	1998	August	2	4	<0.006
S2	1998	August	2	4	<0.006
S2	1998	August	2	4	<0.006
S2	1998	September	1	4	<0.006
S2	1998	September	1	4	<0.006
S2	1998	September	1	4	<0.006
S2	1998	September	2	4	<0.006
S2	1998	September	2	4	<0.006
S2	1998	September	2	4	<0.006
S2	1999	July	1	4	<0.006
S2	1999	July	1	4	<0.006
S2	1999	July	1	4	<0.006
S2	1999	July	2.5	4	<0.006
S2	1999	July	2.5	4	<0.006
S2	1999	July	2.5	4	<0.006
S2	1999	August	1	4	<0.006
S2	1999	August	1	4	<0.006
S2	1999	August	1	4	<0.006
S2	1999	August	2.5	4	<0.006
S2	1999	August	2.5	4	<0.006
S2	1999	August	2.5	4	<0.006
S2	1999	September	1	5	<0.006
S2	1999	September	1	5	<0.006
S2	1999	September	1	5	<0.006
S2	1999	September	2.5	5	0.007
S2	1999	September	2.5	5	<0.006
S2	1999	September	2.5	5	<0.006
S2	2000	July	1	4	<0.006
S2	2000	July	1	4	<0.006
S2	2000	July	3.5	4	<0.006
S2	2000	July	3.5	4	<0.006
S2	2000	August	1	4	<0.006
S2	2000	August	1	4	<0.006
S2	2000	August	3.5	4	<0.006
S2	2000	August	3.5	4	<0.006
S2	2000	September	1	4	<0.006
S2	2000	September	1	4	<0.006
S2	2000	September	3.5	4	<0.006
S2	2000	September	3.5	4	<0.006
S2	2001	July	1	5	0.014
S2	2001	July	1	5	<0.006
S2	2001	July	4	5	0.008
S2	2001	July	4	5	<0.006
S2	2001	August	1	4	<0.006
S2	2001	August	1	5	<0.006
S2	2001	August	4	4	<0.006
S2	2001	August	4	4	<0.006
S2	2001	September	1	4	<0.006
S2	2001	September	1	5	<0.006
S2	2001	September	4	5	<0.006
S2	2001	September	4	5	<0.006
S2	2002	April	3.5	6	0.027
S2	2002	April	3.5	6	0.026
S2	2002	April	5	7	0.024
S2	2002	April	5	7	0.029
S2	2002	July	1	5	<0.006
S2	2002	July	1	5	<0.006

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
S2	2002	July	4	5	<0.006
S2	2002	July	4	5	<0.006
S2	2002	August	1	5	<0.006
S2	2002	August	1	5	<0.006
S2	2002	August	4	5	<0.006
S2	2002	August	4	5	<0.006
S2	2002	September	1	6	<0.006
S2	2002	September	1	6	<0.006
S2	2002	September	4	7	<0.006
S2	2002	September	4	6	<0.006
S2	2003	April	3.5	6	<0.006
S2	2003	April	3.5	6	<0.006
S2	2003	April	5	6	0.006
S2	2003	April	5	5	<0.006
S2	2003	July	1	6	<0.006
S2	2003	July	4	6	<0.006
S2	2003	August	1	6	<0.006
S2	2003	August	4	5	<0.006
S2	2003	September	1	5	<0.006
S2	2003	September	4	5	<0.006
S2	2004	July	1	9.1	0.0188
S2	2004	July	4	8.89	0.0294
S2	2004	August	1	7.16	<0.0050
S2	2004	August	4	6.88	<0.0050
S2	2004	September	1	7.25	<0.0050
S2	2004	September	4	7.16	<0.0050
S2	2004	September	4	6.93	<0.0050
S2	2004	April	M	7.4	0.0177
S2	2004	April	M	7.4	0.0164
S2	2005	April	M	6.66	0.0141
S2	2005	April	M	6.73	0.0143
S2	2005	July	1	10.6	0.0242
S2	2005	July	4	10.4	0.0223
S2	2005	July	4	10.4	0.0221
S2	2005	August	1	7.73	<0.005
S2	2005	August	4	7.49	<0.005
S2	2005	September	1	7.62	<0.005
S2	2005	September	4	7.86	<0.005
S2	2006	April	6	5.97	0.0141
S2	2006	April	6	5.92	0.0136
S2	2006	April	4	6.05	0.0129
S2	2006	April	4	6.00	0.0115
S2	2006	July	1	10.9	<0.0050
S2	2006	July	4	10.3	<0.0050
S2	2006	August	1	15.8	<0.0050
S2	2006	August	1	15.2	0.0225
S2	2006	August	4	8.29	<0.0050
S2	2006	September	1	6.88	<0.0050
S2	2006	September	3	7.00	<0.0050
S2	2007	July	1	11.9	0.0316
S2	2007	July	4	11	0.0329
S2	2007	August	1	7.65	<0.0050
S2	2007	August	1	7.7	<0.0050
S2	2007	August	1	7.64	<0.0050
S2	2007	August	4	7.66	<0.0050
S2	2007	August	4	7.56	<0.0050
S2	2007	August	4	7.47	<0.0050
S2	2007	April	4	6.55	0.0065
S2	2007	April	4	6.57	0.0077
S2	2007	April	6	6.38	0.0059
S2	2007	April	6	6.37	<0.0050
S2	2007	September	1	8.83	<0.0050
S2	2007	September	1	8.87	<0.0050
S2	2007	September	4	8.95	<0.0050
S2	2008	April	3	6.09	<0.0050
S2	2008	April	3	6.34	<0.0050
S2	2008	April	5	7.15	0.0077
S2	2008	April	5	6.35	0.0087
S2	2008	July	1	13.1	0.0211
S2	2008	July	3.5	12.5	0.0213
S2	2008	August	1	7.93	<0.0050
S2	2008	August	1	7.77	<0.0050
S2	2008	August	1	7.95	<0.0050
S2	2008	August	3	7.91	<0.0050
S2	2008	August	3	7.85	<0.0050
S2	2008	August	3	7.78	<0.0050
S2	2008	September	1	13.4	0.0073
S2	2008	September	mid	12.8	<0.0050
S2	2009	April	3	7.61	0.0163
S2	2009	April	3	7.64	0.0168
S2	2009	April	5	8.12	0.022
S2	2009	April	5	8.05	0.0239
S2	2009	July	1	16.8	0.0419
S2	2009	July	mid	18.5	0.0432
S2	2009	August	1	10.8	0.0077
S2	2009	August	1	10.5	0.008
S2	2009	August	1	10.5	0.0079
S2	2009	August	3.5	10.5	0.0077
S2	2009	August	3.5	9.49	0.0078
S2	2009	August	3.5	9.58	0.0084
S2	2009	September	1	8.63	<0.0050
S2	2009	September	2	8.55	<0.0050
S2	2010	August	1	9.47	<0.0050
S2	2010	August	1	9.38	<0.0050
S2	2010	August	2.5	9.35	<0.0050
S2	2010	August	2.5	9.40	<0.0050
S2	2010	August	2.5	9.39	<0.0050
S2	2010	August	1	9.54	<0.0050
S2	2010	April	5	7.16	0.0184
S2	2010	April	5	7.23	0.0183
S2	2010	April	3	7.02	0.0112
S2	2010	April	3	6.89	0.0085
S2	2011	August	1	8.92	<0.0050
S2	2011	August	1	11	<0.0050
S2	2011	August	1	10.6	<0.0050
S2	2011	August	2.8	10.3	<0.0050
S2	2011	August	2.6	8.5	<0.0050
S2	2011	August	2.6	8.96	<0.0050
S2	2011	April	3	8.24	0.0151
S2	2011	April	3	8.46	0.0141
S2	2011	April	5	8.75	0.019
S2	2011	April	5	8.44	0.0196
S3	1994	July	10	3.91	<0.005
S3	1994	August	8	3.88	<0.005
S3	1997	August	1	-	0.001
S3	1997	August	4	-	0.001
S3	1997	August	8	-	0.001
S3	1998	July	1	3	<0.006
S3	1998	July	1	3	<0.006
S3	1998	July	1	3	<0.006
S3	1998	July	5	3	<0.006
S3	1998	July	5	3	<0.006

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
S3	1998	July	5	3	<0.006
S3	1998	July	1	4	<0.006
S3	1998	July	1	4	<0.006
S3	1998	July	1	4	<0.006
S3	1998	July	5	4	<0.006
S3	1998	July	5	4	<0.006
S3	1998	July	5	4	<0.006
S3	1998	August	1	4	<0.006
S3	1998	August	1	4	<0.006
S3	1998	August	1	4	<0.006
S3	1998	August	5	4	0.006
S3	1998	August	5	4	<0.006
S3	1998	August	5	4	<0.006
S3	1998	August	1	3	<0.006
S3	1998	August	1	3	<0.006
S3	1998	August	1	3	<0.006
S3	1998	August	5	3	<0.006
S3	1998	August	5	3	<0.006
S3	1998	August	5	3	<0.006
S3	1998	September	1	4	<0.006
S3	1998	September	1	4	<0.006
S3	1998	September	1	4	<0.006
S3	1998	September	5	4	<0.006
S3	1998	September	5	4	<0.006
S3	1998	September	5	4	<0.006
S3	1999	July	1	4	<0.006
S3	1999	July	1	4	<0.006
S3	1999	July	1	4	<0.006
S3	1999	July	5	4	<0.006
S3	1999	July	5	4	<0.006
S3	1999	July	5	4	<0.006
S3	1999	August	1	4	<0.006
S3	1999	August	1	4	<0.006
S3	1999	August	1	4	<0.006
S3	1999	August	5	4	<0.006
S3	1999	August	5	4	<0.006
S3	1999	August	5	4	<0.006
S3	1999	September	1	4	0.008
S3	1999	September	1	4	<0.006
S3	1999	September	1	4	0.009
S3	1999	September	5	4	0.008
S3	1999	September	5	4	<0.006
S3	1999	September	5	4	0.009
S3	2000	July	1	5	0.024
S3	2000	July	1	4	0.023
S3	2000	July	6	4	0.028
S3	2000	July	6	4	0.032
S3	2000	August	1	4	<0.006
S3	2000	August	1	4	<0.006
S3	2000	August	6	4	<0.006
S3	2000	August	6	4	<0.006
S3	2000	September	1	4	<0.006
S3	2000	September	1	4	<0.006
S3	2000	September	7	4	<0.006
S3	2000	September	7	4	<0.006
S3	2001	July	1	4	0.021
S3	2001	July	1	5	0.022
S3	2001	July	6	5	0.024
S3	2001	July	6	5	0.023
S3	2001	August	1	4	<0.006
S3	2001	August	1	4	<0.006
S3	2001	August	6	4	<0.006
S3	2001	August	6	4	<0.006
S3	2001	September	1	4	<0.006
S3	2001	September	1	4	<0.006
S3	2001	September	6	5	<0.006
S3	2001	September	6	4	<0.006
S3	2002	July	1	5	<0.006
S3	2002	July	1	5	<0.006
S3	2002	July	6	5	<0.006
S3	2002	July	6	5	<0.006
S3	2002	August	1	4	<0.006
S3	2002	August	1	4	<0.006
S3	2002	August	6	4	<0.006
S3	2002	August	6	4	<0.006
S3	2002	September	1	4	<0.006
S3	2002	September	1	4	<0.006
S3	2002	September	6	5	<0.006
S3	2002	September	6	4	<0.006
S3	2002	April	6	5	<0.006
S3	2002	April	6	5	<0.006
S3	2002	April	10.5	5	0.082
S3	2002	April	10.5	6	0.092
S3	2003	July	1	6	<0.006
S3	2003	July	6	6	<0.006
S3	2003	August	1	5	<0.006
S3	2003	August	6	5	<0.006
S3	2003	September	1	5	<0.006
S3	2003	September	7	4	<0.006
S3	2003	April	6.5	7	0.011
S3	2003	April	6.5	7	0.012
S3	2003	April	11	7	<0.006
S3	2003	April	11	6	0.011
S3	2004	April	M	6.1	0.0073
S3	2004	April	M	6.2	0.0066
S3	2004	April	B	6.6	0.0479
S3	2004	April	B	6.7	0.0451
S3	2004	July	1	9.37	0.0361
S3	2004	July	6	9.47	0.0427
S3	2004	August	1	6.02	<0.0050
S3	2004	August	6	6.08	<0.0050
S3	2004	September	1	5.32	<0.0050
S3	2004	September	6	5.39	<0.0050
S3	2005	July	1	9.84	0.0156
S3	2005	July	6	7.38	0.0146
S3	2005	August	1	6.28	<0.005
S3	2005	August	1	6.34	<0.005
S3	2005	August	6	6.44	<0.005
S3	2005	September	1	5.10	<0.005
S3	2005	September	6	5.09	<0.005
S3	2005	April	B	7.19	0.055
S3	2005	April	B	7.29	0.0499
S3	2005	April	M	5.8	<0.0050
S3	2005	April	M	6.04	<0.0050
S3	2006	April	12	5.93	0.0353
S3	2006	April	12	8.40	0.0639
S3	2006	April	7	5.50	0.0077
S3	2006	April	7	5.40	0.0050
S3	2006	July	1	7.03	<0.0050
S3	2006	July	6	7.22	<0.0050
S3	2006	July	6	7.32	<0.0050
S3	2006	August	1	6.76	<0.0050

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
S3	2006	August	7	5.85	<0.0050
S3	2006	September	1	5.85	<0.0050
S3	2006	September	5	5.59	<0.0050
S3	2007	July	1	10.9	0.0312
S3	2007	July	6	8.85	0.0256
S3	2007	August	1	6.24	<0.0050
S3	2007	August	1	6.25	<0.0050
S3	2007	August	1	6.11	<0.0050
S3	2007	August	6	6.1	<0.0050
S3	2007	August	6	6.22	<0.0050
S3	2007	August	6	6.23	<0.0050
S3	2007	April	6	6.11	0.0096
S3	2007	April	6	5.99	0.0076
S3	2007	April	10	14.5	0.0863
S3	2007	April	10	14.9	0.107
S3	2007	September	1	5.87	<0.0050
S3	2007	September	6	5.73	<0.0050
S3	2008	April	7	6.09	0.0082
S3	2008	April	7	5.98	0.0081
S3	2008	April	10	6.69	0.0257
S3	2008	April	10	6.62	0.0217
S3	2008	July	1	8.75	0.0108
S3	2008	July	1	8.86	0.01
S3	2008	July	6.5	8.54	0.011
S3	2008	August	1	6.77	<0.0050
S3	2008	August	1	6.84	<0.0050
S3	2008	August	1	7.11	<0.0050
S3	2008	August	6.5	5.73	<0.0050
S3	2008	August	6.5	6.33	<0.0050
S3	2008	August	6.5	6.26	<0.0050
S3	2008	September	1	7.07	0.0481
S3	2008	September	mid	7.19	<0.0050
S3	2009	April	7	7.53	0.0232
S3	2009	April	7	9.17	0.0674
S3	2009	April	12	17.4	0.129
S3	2009	April	12	16	0.124
S3	2009	July	1	13.3	0.0371
S3	2009	July	6	13	0.0364
S3	2009	August	1	9.24	0.0151
S3	2009	August	1	8.58	0.0072
S3	2009	August	1	8.28	0.0068
S3	2009	August	5.5	8.36	0.0057
S3	2009	August	5.5	8.24	<0.0050
S3	2009	August	5.5	7.92	<0.0050
S3	2009	September	1	6.38	<0.0050
S3	2009	September	5	6.27	<0.0050
S3	2010	August	6	6.38	<0.0050
S3	2010	August	6	6.41	<0.0050
S3	2010	August	6	6.37	<0.0050
S3	2010	August	1	6.39	<0.0050
S3	2010	August	1	6.39	<0.0050
S3	2010	August	1	6.30	<0.0050
S3	2010	April	11.5	8.13	0.0612
S3	2010	April	11.5	8.33	0.061
S3	2010	April	7	6.73	0.0121
S3	2010	April	7	6.81	0.0108
S3	2011	August	1	7.09	<0.0050
S3	2011	August	1	6.97	<0.0050
S3	2011	August	1	7.1	<0.0050
S3	2011	August	7.5	7.19	<0.0050
S3	2011	August	7.5	7.18	<0.0050
S3	2011	August	7.5	7.18	<0.0050
S3	2011	April	7	7.43	0.0111
S3	2011	April	7	7.56	0.0109
S3	2011	April	11	14.4	0.0808
S3	2011	April	11	14.1	0.0822
Slipper	1994	July	1	2.84	<0.005
Slipper	1994	July	1	3.23	<0.005
Slipper	1994	July	1	2.8	<0.005
Slipper	1994	July	4	3.49	<0.005
Slipper	1994	July	4	3.54	<0.005
Slipper	1994	July	4	3.65	<0.005
Slipper	1994	July	8	2.51	<0.005
Slipper	1994	July	8	2.11	<0.005
Slipper	1994	July	8	2.15	<0.005
Slipper	1994	July	12	2.57	<0.005
Slipper	1994	July	12	3.4	<0.005
Slipper	1994	July	12	1.94	<0.005
Slipper	1994	July	16	1.9	0.006
Slipper	1994	July	16	3.33	0.006
Slipper	1994	July	16	2.65	0.006
Slipper	1994	August	1	4.15	<0.005
Slipper	1994	August	3	4.29	<0.005
Slipper	1994	August	5	4.13	<0.005
Slipper	1994	August	7	4.15	<0.005
Slipper	1994	August	10	4.22	<0.005
Slipper	1995	August	1	4.32	<0.005
Slipper	1995	August	3	4.34	<0.005
Slipper	1995	August	5	4.33	<0.005
Slipper	1995	August	7	4.34	<0.005
Slipper	1995	August	7	4.28	<0.005
Slipper	1995	August	9	4.29	<0.005
Slipper	1996	April	1	8.23	0.051
Slipper	1996	August	1	4.45	<0.005
Slipper	1996	August	7	4.24	<0.005
Slipper	1996	August	13	3.73	<0.005
Slipper	1997	August	1	5.37	0.001
Slipper	1997	August	7	5.38	0.001
Slipper	1997	August	13	5.44	0.001
Slipper	1998	July	1	4	<0.006
Slipper	1998	July	1	4	<0.006
Slipper	1998	July	1	4	<0.006
Slipper	1998	July	8	4	<0.006
Slipper	1998	July	8	4	<0.006
Slipper	1998	July	8	4	<0.006
Slipper	1998	July	1	4	<0.006
Slipper	1998	July	1	4	<0.006
Slipper	1998	July	1	4	<0.006
Slipper	1998	July	8	4	<0.006
Slipper	1998	July	8	4	<0.006
Slipper	1998	July	8	4	<0.006
Slipper	1998	August	1	5	<0.006
Slipper	1998	August	1	4	<0.006
Slipper	1998	August	1	4	<0.006
Slipper	1998	August	8	4	<0.006
Slipper	1998	August	8	4	<0.006
Slipper	1998	August	8	4	<0.006
Slipper	1998	August	1	4	<0.006
Slipper	1998	August	1	4	<0.006
Slipper	1998	August	1	4	<0.006
Slipper	1998	August	8	4	<0.006
Slipper	1998	August	8	4	<0.006

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Slipper	1998	August	8	4	<0.006
Slipper	1998	September	1	5	<0.006
Slipper	1998	September	1	5	<0.006
Slipper	1998	September	1	5	<0.006
Slipper	1998	September	8	5	<0.006
Slipper	1998	September	8	5	<0.006
Slipper	1998	September	8	5	<0.006
Slipper	1999	July	1	5	<0.006
Slipper	1999	July	1	5	<0.006
Slipper	1999	July	1	5	<0.006
Slipper	1999	July	8	4	<0.006
Slipper	1999	July	8	4	<0.006
Slipper	1999	July	8	4	<0.006
Slipper	1999	August	1	5	<0.006
Slipper	1999	August	1	5	<0.006
Slipper	1999	August	1	5	<0.006
Slipper	1999	August	8	5	<0.006
Slipper	1999	August	8	5	<0.006
Slipper	1999	August	8	5	<0.006
Slipper	1999	September	1	5	0.007
Slipper	1999	September	1	6	<0.006
Slipper	1999	September	1	6	0.007
Slipper	1999	September	7	6	0.01
Slipper	1999	September	7	6	0.008
Slipper	1999	September	7	6	0.008
Slipper	2000	July	1	5	<0.006
Slipper	2000	July	1	5	<0.006
Slipper	2000	July	7	5	0.02
Slipper	2000	July	7	5	0.02
Slipper	2000	August	1	5	<0.006
Slipper	2000	August	1	5	<0.006
Slipper	2000	August	7	5	<0.006
Slipper	2000	August	7	5	<0.006
Slipper	2000	September	1	6	<0.006
Slipper	2000	September	1	6	<0.006
Slipper	2000	September	7	6	<0.006
Slipper	2000	September	7	6	<0.006
Slipper	2001	July	1	6	0.01
Slipper	2001	July	1	6	<0.006
Slipper	2001	July	8	6	<0.006
Slipper	2001	July	8	6	<0.006
Slipper	2001	August	1	6	<0.006
Slipper	2001	August	1	6	<0.006
Slipper	2001	August	8	6	<0.006
Slipper	2001	August	8	6	<0.006
Slipper	2001	September	1	7	<0.006
Slipper	2001	September	1	7	<0.006
Slipper	2001	September	8	7	<0.006
Slipper	2001	September	8	7	<0.006
Slipper	2002	July	1	8	<0.006
Slipper	2002	July	1	8	<0.006
Slipper	2002	July	8	7	<0.006
Slipper	2002	July	8	7	<0.006
Slipper	2002	August	1	8	<0.006
Slipper	2002	August	1	8	<0.006
Slipper	2002	August	8	8	<0.006
Slipper	2002	August	8	8	<0.006
Slipper	2002	September	1	10	<0.006
Slipper	2002	September	1	10	<0.006
Slipper	2002	September	8	9	<0.006
Slipper	2002	September	8	10	<0.006
Slipper	2002	April	7	12	0.095
Slipper	2002	April	7	12	0.095
Slipper	2002	April	12	12	0.117
Slipper	2002	April	12	12	0.113
Slipper	2003	July	1	8	<0.006
Slipper	2003	July	8	8	<0.006
Slipper	2003	August	1	10	<0.006
Slipper	2003	August	1	10	<0.006
Slipper	2003	August	8	10	<0.006
Slipper	2003	September	1	10	<0.006
Slipper	2003	September	8	10	<0.006
Slipper	2003	April	7	17	0.067
Slipper	2003	April	7	16	0.074
Slipper	2003	April	12	17	0.086
Slipper	2003	April	12	17	0.082
Slipper	2004	April	M	18.4	0.0566
Slipper	2004	April	M	18.5	0.055
Slipper	2004	April	B	17.5	0.0898
Slipper	2004	April	B	17.4	0.0828
Slipper	2004	July	1	12.5	<0.0050
Slipper	2004	July	8	13.5	0.0593
Slipper	2004	August	1	12.9	<0.0050
Slipper	2004	August	1	12.9	<0.0050
Slipper	2004	August	8	12.7	<0.0050
Slipper	2004	September	1	14.8	<0.0050
Slipper	2004	September	8	14.8	<0.0050
Slipper	2005	July	1	20.3	0.0689
Slipper	2005	July	8	19.2	0.0739
Slipper	2005	August	1	23.5	0.0280
Slipper	2005	August	8	22.8	0.0265
Slipper	2005	September	1	24.0	0.0065
Slipper	2005	September	1	24.2	0.0060
Slipper	2005	September	8	24.4	0.0060
Slipper	2005	April	B	32.8	0.288
Slipper	2005	April	B	34.8	0.289
Slipper	2005	April	M	32.1	0.282
Slipper	2005	April	M	32.2	0.283
Slipper	2006	April	14	39.3	0.217
Slipper	2006	April	14	39.0	0.213
Slipper	2006	April	8	37.6	0.213
Slipper	2006	April	8	37.4	0.211
Slipper	2006	July	1	16.9	<0.0050
Slipper	2006	July	8	16.4	<0.0050
Slipper	2006	August	1	22.1	<0.0050
Slipper	2006	August	8	21.3	<0.0050
Slipper	2006	September	1	26.8	<0.0050
Slipper	2006	September	6	26.5	<0.0050
Slipper	2007	July	1	19.1	<0.0050
Slipper	2007	July	8	22	0.0784
Slipper	2007	July	8	21.4	0.0753
Slipper	2007	August	1	24.1	0.0195
Slipper	2007	August	1	24.7	0.0188
Slipper	2007	August	1	24.1	0.0184
Slipper	2007	August	8	24.1	0.0179
Slipper	2007	August	8	25.1	0.0187
Slipper	2007	August	8	24.1	0.0183
Slipper	2007	April	8	66.3	0.479
Slipper	2007	April	8	63.8	0.473
Slipper	2007	April	14	67	0.482
Slipper	2007	April	14	68.9	0.469
Slipper	2007	September	1	29.2	<0.0050

Appendix A.1. Nitrate Water Concentrations and Hardness in Lakes of the EKATI Project Area, 1994 to 2011

Lake	Year	Month	Depth (m)	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Slipper	2008	April	8	55.8	0.236
Slipper	2008	April	8	56.5	0.221
Slipper	2008	April	14	58.7	0.253
Slipper	2008	April	14	58.7	0.252
Slipper	2008	July	1	25.4	0.0753
Slipper	2008	July	1	29.2	0.0394
Slipper	2008	July	7	26.5	0.0395
Slipper	2008	August	1	28	<0.0050
Slipper	2008	August	1	27.8	<0.0050
Slipper	2008	August	1	28.3	<0.0050
Slipper	2008	August	7.5	27	<0.0050
Slipper	2008	August	7.5	27	0.018
Slipper	2008	August	7.5	27.2	<0.0050
Slipper	2008	September	1	28.5	0.0075
Slipper	2008	September	mid	29.4	0.0072
Slipper	2009	April	8	54.1	0.447
Slipper	2009	April	8	54.6	0.449
Slipper	2009	April	14	56.5	0.436
Slipper	2009	April	14	59.4	0.44
Slipper	2009	July	1	20.8	0.115
Slipper	2009	July	1	21.8	0.111
Slipper	2009	July	8	21.2	0.116
Slipper	2009	August	1	19.5	0.0256
Slipper	2009	August	1	23	<0.0050
Slipper	2009	August	1	18.8	<0.0050
Slipper	2009	August	6.5	19.4	<0.0050
Slipper	2009	August	6.5	23.3	<0.0050
Slipper	2009	August	6.5	22.3	<0.0050
Slipper	2009	September	1	23.6	<0.0050
Slipper	2009	September	mid	22.7	<0.0050
Slipper	2010	August	1	22.5	-
Slipper	2010	August	1	22.4	<0.0050
Slipper	2010	August	1	22.8	<0.0050
Slipper	2010	August	7	22.9	<0.0050
Slipper	2010	August	7	23.2	<0.0050
Slipper	2010	August	7	23.0	<0.0050
Slipper	2010	April	13.5	42.7	0.152
Slipper	2010	April	13.5	43.3	0.153
Slipper	2010	April	8	41.2	0.122
Slipper	2010	April	8	41.2	0.123
Slipper	2011	August	1	23.3	<0.0050
Slipper	2011	August	1	23.1	<0.0050
Slipper	2011	August	1	23.3	<0.0050
Slipper	2011	August	7.5	23.3	<0.0050
Slipper	2011	August	7.5	23.3	<0.0050
Slipper	2011	August	7.5	23.2	<0.0050
Slipper	2011	April	8	44.8	0.198
Slipper	2011	April	8	48.5	0.197
Slipper	2011	April	13	46.4	0.208
Slipper	2011	April	13	48	0.203

Note: < indicates less than the analytical detection limit provided.

Appendix A.2. Nitrate Water Concentrations and Hardness in Streams of the EKATI Project Area, 1994 to 2011

Stream	Year	Month	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Christine-Lac du Sauvage	2000	June	5	<0.006
Christine-Lac du Sauvage	2000	June	5	<0.006
Christine-Lac du Sauvage	2000	June	5	<0.006
Christine-Lac du Sauvage	2000	August	4	<0.006
Christine-Lac du Sauvage	2000	August	4	<0.006
Christine-Lac du Sauvage	2000	August	4	<0.006
Christine-Lac du Sauvage	2000	September	5	<0.006
Christine-Lac du Sauvage	2000	September	5	<0.006
Christine-Lac du Sauvage	2000	September	5	<0.006
Christine-Lac du Sauvage	2001	June	5	0.012
Christine-Lac du Sauvage	2001	June	5	0.012
Christine-Lac du Sauvage	2001	June	5	0.021
Christine-Lac du Sauvage	2001	August	4	0.01
Christine-Lac du Sauvage	2001	August	4	0.011
Christine-Lac du Sauvage	2001	August	4	0.006
Christine-Lac du Sauvage	2001	September	4	<0.006
Christine-Lac du Sauvage	2001	September	4	<0.006
Christine-Lac du Sauvage	2001	September	4	<0.006
Christine-Lac du Sauvage	2002	June	6	<0.006
Christine-Lac du Sauvage	2002	June	5	0.019
Christine-Lac du Sauvage	2002	June	5	0.018
Christine-Lac du Sauvage	2002	August	5	<0.006
Christine-Lac du Sauvage	2002	August	5	<0.006
Christine-Lac du Sauvage	2002	August	5	<0.006
Christine-Lac du Sauvage	2002	September	6	<0.006
Christine-Lac du Sauvage	2002	September	6	<0.006
Christine-Lac du Sauvage	2002	September	6	<0.006
Christine-Lac du Sauvage	2003	June	9	0.027
Christine-Lac du Sauvage	2003	June	8	0.027
Christine-Lac du Sauvage	2003	August	7	0.009
Christine-Lac du Sauvage	2003	August	8	<0.006
Christine-Lac du Sauvage	2003	September	7	<0.006
Christine-Lac du Sauvage	2003	September	7	<0.006
Christine-Lac du Sauvage	2004	June	7.56	0.0052
Christine-Lac du Sauvage	2004	June	7.38	<0.0050
Christine-Lac du Sauvage	2004	August	7.30	0.0088
Christine-Lac du Sauvage	2004	August	7.44	0.0106
Christine-Lac du Sauvage	2004	September	20.6	0.0155
Christine-Lac du Sauvage	2004	September	7.63	<0.0050
Christine-Lac du Sauvage	2005	June	6.49	<0.0050
Christine-Lac du Sauvage	2005	June	6.37	0.0052
Christine-Lac du Sauvage	2005	August	8.80	0.0074
Christine-Lac du Sauvage	2005	August	8.53	0.0073
Christine-Lac du Sauvage	2005	September	8.66	<0.0050
Christine-Lac du Sauvage	2005	September	8.72	0.0060
Christine-Lac du Sauvage	2006	May	7.36	0.0099
Christine-Lac du Sauvage	2006	May	7.35	0.0104
Christine-Lac du Sauvage	2006	August	8.8	<0.0050
Christine-Lac du Sauvage	2006	August	8.5	<0.0050
Christine-Lac du Sauvage	2006	September	9.06	0.0103
Christine-Lac du Sauvage	2006	September	8.84	<0.0050
Christine-Lac du Sauvage	2007	September	9.92	<0.0050
Christine-Lac du Sauvage	2007	September	10.6	<0.0050
Christine-Lac du Sauvage	2007	June	8.11	0.0098
Christine-Lac du Sauvage	2007	August	9.76	<0.0050
Christine-Lac du Sauvage	2007	August	9.82	<0.0050
Christine-Lac du Sauvage	2008	June	10.1	<0.0050
Christine-Lac du Sauvage	2008	June	10.9	<0.0050
Christine-Lac du Sauvage	2008	August	10.3	<0.0050
Christine-Lac du Sauvage	2008	August	9.26	<0.0050
Christine-Lac du Sauvage	2008	September	9.46	<0.0050
Christine-Lac du Sauvage	2008	September	9.46	<0.0050
Christine-Lac du Sauvage	2009	June	15.9	0.0559
Christine-Lac du Sauvage	2009	June	14.9	0.0576
Christine-Lac du Sauvage	2009	August	10.6	<0.0050
Christine-Lac du Sauvage	2009	August	10.6	<0.0050
Christine-Lac du Sauvage	2009	September	11.1	<0.0050
Christine-Lac du Sauvage	2010	June	10.4	0.0220
Christine-Lac du Sauvage	2010	June	10.5	0.0219
Christine-Lac du Sauvage	2010	July	9.76	<0.0050
Christine-Lac du Sauvage	2010	July	10.0	<0.0050
Christine-Lac du Sauvage	2010	August	11.0	<0.0050
Christine-Lac du Sauvage	2010	August	11.3	<0.0050
Christine-Lac du Sauvage	2010	September	10.7	<0.0050
Christine-Lac du Sauvage	2010	September	10.5	<0.0050
Christine-Lac du Sauvage	2011	June	11.4	<0.0050
Christine-Lac du Sauvage	2011	June	11.2	<0.0050
Christine-Lac du Sauvage	2011	July	12.1	<0.0050
Christine-Lac du Sauvage	2011	July	12.1	<0.0050
Christine-Lac du Sauvage	2011	August	12.4	<0.025
Christine-Lac du Sauvage	2011	August	12.2	<0.025
Christine-Lac du Sauvage	2011	September	12.1	<0.0050
Christine-Lac du Sauvage	2011	September	12.2	<0.0050
Count Outflow	2010	June	5.22	<0.0050
Count Outflow	2010	June	4.96	<0.0050
Counts Ouflow	2010	August	4.31	<0.0050
Counts Ouflow	2010	August	4.40	<0.0050
Counts Outflow	1997	September	2.96	0.0056
Counts Outflow	1998	May	4	0.008
Counts Outflow	1998	May	4	<0.006
Counts Outflow	1998	May	4	<0.006
Counts Outflow	1998	June	3	<0.006
Counts Outflow	1998	July	4	0.01
Counts Outflow	1998	July	3	0.01
Counts Outflow	1998	July	3	0.01
Counts Outflow	1998	August	3	0.017
Counts Outflow	1998	August	3	0.013
Counts Outflow	1998	August	3	0.013
Counts Outflow	1998	September	4	0.007
Counts Outflow	1998	September	4	0.006
Counts Outflow	1998	September	3	0.01
Counts Outflow	1999	June	4	0.013
Counts Outflow	1999	June	4	0.013
Counts Outflow	1999	June	3	0.013
Counts Outflow	1999	August	3	<0.006
Counts Outflow	1999	August	3	<0.006
Counts Outflow	1999	August	3	<0.006
Counts Outflow	1999	September	4	0.007
Counts Outflow	1999	September	4	0.007
Counts Outflow	1999	September	4	0.008
Counts Outflow	2000	June	3	0.01
Counts Outflow	2000	June	3	0.011
Counts Outflow	2000	June	3	0.01
Counts Outflow	2000	August	4	<0.006
Counts Outflow	2000	August	4	0.007
Counts Outflow	2000	August	3	<0.006
Counts Outflow	2000	September	4	<0.006
Counts Outflow	2000	September	4	<0.006
Counts Outflow	2000	September	4	<0.006
Counts Outflow	2001	June	4	0.013

Appendix A.2. Nitrate Water Concentrations and Hardness in Streams of the EKATI Project Area, 1994 to 2011

Stream	Year	Month	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Counts Outflow	2001	June	5	0.012
Counts Outflow	2001	August	3	<0.006
Counts Outflow	2001	August	3	<0.006
Counts Outflow	2001	August	3	0.007
Counts Outflow	2001	September	3	<0.006
Counts Outflow	2001	September	3	<0.006
Counts Outflow	2001	September	3	<0.006
Counts Outflow	2002	June	3	0.007
Counts Outflow	2002	June	4	<0.006
Counts Outflow	2002	June	3	<0.006
Counts Outflow	2002	August	3	<0.006
Counts Outflow	2002	August	-	<0.006
Counts Outflow	2002	August	3	<0.006
Counts Outflow	2002	September	3	<0.006
Counts Outflow	2002	September	3	<0.006
Counts Outflow	2003	June	5	<0.006
Counts Outflow	2003	June	5	<0.006
Counts Outflow	2003	August	4	<0.006
Counts Outflow	2003	August	4	<0.006
Counts Outflow	2003	September	3	<0.006
Counts Outflow	2003	September	3	<0.006
Counts Outflow	2004	June	3.6	<0.0050
Counts Outflow	2004	June	3.44	<0.0050
Counts Outflow	2004	August	3.55	<0.0050
Counts Outflow	2004	August	3.52	<0.0050
Counts Outflow	2004	September	3.62	<0.0050
Counts Outflow	2004	September	3.64	<0.0050
Counts Outflow	2005	June	3.79	<0.0050
Counts Outflow	2005	June	3.51	<0.0050
Counts Outflow	2005	August	3.73	<0.0050
Counts Outflow	2005	August	3.81	<0.0050
Counts Outflow	2005	September	3.36	<0.0050
Counts Outflow	2005	September	3.53	<0.0050
Counts Outflow	2006	May	3.80	<0.0050
Counts Outflow	2006	May	3.71	<0.0050
Counts Outflow	2006	August	3.6	<0.0050
Counts Outflow	2006	August	3.6	<0.0050
Counts Outflow	2006	September	4.18	<0.0050
Counts Outflow	2006	September	3.57	<0.0050
Counts Outflow	2007	September	3.99	<0.0050
Counts Outflow	2007	September	4.17	<0.0050
Counts Outflow	2007	June	5.09	<0.0050
Counts Outflow	2007	August	3.85	<0.0050
Counts Outflow	2007	August	3.8	<0.0050
Counts Outflow	2008	June	5.33	<0.0050
Counts Outflow	2008	June	4.78	<0.0050
Counts Outflow	2008	August	3.54	<0.0050
Counts Outflow	2008	August	3.38	<0.0050
Counts Outflow	2008	September	3.95	<0.0050
Counts Outflow	2008	September	3.94	<0.0050
Counts Outflow	2009	June	3.55	0.0072
Counts Outflow	2009	June	3.59	0.0073
Counts Outflow	2009	August	3.71	<0.0050
Counts Outflow	2009	August	3.55	<0.0050
Counts Outflow	2009	September	4.44	<0.0050
Counts Outflow	2009	September	4.39	<0.0050
Counts Outflow	2010	July	3.95	<0.0050
Counts Outflow	2010	July	3.82	<0.0050
Counts Outflow	2010	September	3.70	0.0075
Counts Outflow	2010	September	3.73	0.0072
Counts Outflow	2011	June	4.06	<0.0050
Counts Outflow	2011	June	4.02	<0.0050
Counts Outflow	2011	July	3.85	<0.0050
Counts Outflow	2011	July	3.8	<0.0050
Counts Outflow	2011	August	3.77	<0.025
Counts Outflow	2011	August	3.73	<0.025
Counts Outflow	2011	September	3.86	<0.0050
Counts Outflow	2011	September	3.82	<0.0050
Cujo Outflow	1999	June	5	0.029
Cujo Outflow	1999	June	5	0.028
Cujo Outflow	1999	June	5	0.029
Cujo Outflow	1999	August	4	<0.006
Cujo Outflow	1999	August	4	<0.006
Cujo Outflow	1999	August	5	<0.006
Cujo Outflow	2000	June	4	<0.006
Cujo Outflow	2000	June	4	<0.006
Cujo Outflow	2000	June	4	<0.006
Cujo Outflow	2000	August	5	0.007
Cujo Outflow	2000	August	5	<0.006
Cujo Outflow	2000	August	5	<0.006
Cujo Outflow	2000	September	5	<0.006
Cujo Outflow	2000	September	5	<0.006
Cujo Outflow	2000	September	5	<0.006
Cujo Outflow	2001	June	6	0.098
Cujo Outflow	2001	June	5	0.098
Cujo Outflow	2001	June	5	0.098
Cujo Outflow	2001	August	5	<0.006
Cujo Outflow	2001	August	5	<0.006
Cujo Outflow	2001	August	5	0.015
Cujo Outflow	2001	September	6	0.104
Cujo Outflow	2001	September	6	0.104
Cujo Outflow	2001	September	6	0.103
Cujo Outflow	2002	June	12	0.608
Cujo Outflow	2002	June	12	0.689
Cujo Outflow	2002	June	12	0.702
Cujo Outflow	2002	August	13	0.123
Cujo Outflow	2002	August	13	0.126
Cujo Outflow	2002	August	13	0.126
Cujo Outflow	2002	September	18	1.29
Cujo Outflow	2002	September	16	1.12
Cujo Outflow	2002	September	17	1.21
Cujo Outflow	2003	June	18	<0.006
Cujo Outflow	2003	June	18	<0.006
Cujo Outflow	2003	August	21	0.282
Cujo Outflow	2003	August	21	0.283
Cujo Outflow	2003	September	25	0.364
Cujo Outflow	2003	September	25	0.366
Cujo Outflow	2004	June	13.8	0.0455
Cujo Outflow	2004	June	13.9	0.0464
Cujo Outflow	2004	August	21.4	0.0110
Cujo Outflow	2004	August	21.7	0.0105
Cujo Outflow	2004	September	20.6	0.0155
Cujo Outflow	2004	September	21.1	0.0171
Cujo Outflow	2005	June	9.76	0.0844
Cujo Outflow	2005	June	10.3	0.0843
Cujo Outflow	2005	August	32.9	0.0092
Cujo Outflow	2005	August	33.7	0.0093
Cujo Outflow	2005	September	32.3	0.0068
Cujo Outflow	2005	September	33.1	0.0050

Appendix A.2. Nitrate Water Concentrations and Hardness in Streams of the EKATI Project Area, 1994 to 2011

Stream	Year	Month	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Cujo Outflow	2006	May	15.0	<0.0050
Cujo Outflow	2006	May	15.0	<0.0050
Cujo Outflow	2006	August	32.3	<0.0050
Cujo Outflow	2006	August	32.5	<0.0050
Cujo Outflow	2006	September	35.6	<0.0050
Cujo Outflow	2006	September	35.1	<0.0050
Cujo Outflow	2007	September	35	<0.0050
Cujo Outflow	2007	September	33.8	<0.0050
Cujo Outflow	2007	June	13	<0.0050
Cujo Outflow	2007	August	30.4	<0.0050
Cujo Outflow	2007	August	30.6	<0.0050
Cujo Outflow	2008	June	27.3	<0.0050
Cujo Outflow	2008	June	25.6	<0.0050
Cujo Outflow	2008	August	33.5	<0.0050
Cujo Outflow	2008	August	35.2	<0.0050
Cujo Outflow	2008	September	30.5	<0.0050
Cujo Outflow	2008	September	30.7	<0.0050
Cujo Outflow	2009	June	28.3	0.0153
Cujo Outflow	2009	June	19.4	0.0162
Cujo Outflow	2009	August	32	<0.0050
Cujo Outflow	2009	August	32.1	<0.0050
Cujo Outflow	2009	September	36.6	<0.0050
Cujo Outflow	2009	September	34.1	<0.0050
Cujo Outflow	2010	June	23.2	0.0220
Cujo Outflow	2010	June	23.2	0.0229
Cujo Outflow	2010	July	28.2	<0.0050
Cujo Outflow	2010	July	27.9	<0.0050
Cujo Outflow	2010	August	29.7	<0.0050
Cujo Outflow	2010	August	31.1	<0.0050
Cujo Outflow	2010	September	29.8	<0.0050
Cujo Outflow	2010	September	29.5	<0.0050
Cujo Outflow	2011	June	30	<0.0050
Cujo Outflow	2011	June	29.6	<0.0050
Cujo Outflow	2011	July	34.2	<0.0050
Cujo Outflow	2011	July	34.1	<0.0050
Cujo Outflow	2011	August	36.2	<0.025
Cujo Outflow	2011	August	35.4	<0.025
Cujo Outflow	2011	September	35.9	<0.0050
Cujo Outflow	2011	September	36.1	<0.0050
Kodiak-Little	1994	June	6.18	0.04
Kodiak-Little	1994	August	5.85	<0.005
Kodiak-Little	1995	June	6.02	0.107
Kodiak-Little	1995	August	7.77	0.04
Kodiak-Little	1995	September	8.45	0.053
Kodiak-Little	1996	June	7.72	0.058
Kodiak-Little	1996	August	5.93	<0.005
Kodiak-Little	1996	August	6.27	<0.005
Kodiak-Little	1997	June	8.67	18.3
Kodiak-Little	1997	July	4.74	0.090
Kodiak-Little	1997	September	7.16	0.060
Kodiak-Little	1998	May	7.98	0.797
Kodiak-Little	1998	May	-	0.748
Kodiak-Little	1998	May	7.85	0.860
Kodiak-Little	1998	May	-	0.800
Kodiak-Little	1998	June	5.99	0.235
Kodiak-Little	1998	June	6.14	0.235
Kodiak-Little	1998	June	5	0.089
Kodiak-Little	1998	June	5	0.089
Kodiak-Little	1998	June	5	0.086
Kodiak-Little	1998	June	5.69	0.093
Kodiak-Little	1998	July	6.28	0.005
Kodiak-Little	1998	July	6.35	0.003
Kodiak-Little	1998	July	6	<0.006
Kodiak-Little	1998	July	6	<0.006
Kodiak-Little	1998	July	6	<0.006
Kodiak-Little	1998	July	7.33	<0.001
Kodiak-Little	1998	August	7.23	0.021
Kodiak-Little	1998	August	3	<0.006
Kodiak-Little	1998	August	7	<0.006
Kodiak-Little	1998	August	8	<0.006
Kodiak-Little	1998	August	7.76	0.032
Kodiak-Little	1998	September	8	0.104
Kodiak-Little	1998	September	8	0.104
Kodiak-Little	1998	September	8	0.103
Kodiak-Little	1998	September	8.85	0.130
Kodiak-Little	1999	June	5.05	0.150
Kodiak-Little	1999	June	5.17	0.136
Kodiak-Little	1999	August	5.46	0.007
Kodiak-Little	1999	September	7.52	0.193
Kodiak-Little	1999	September	7.65	0.211
Kodiak-Little	2000	June	7.6	-
Kodiak-Little	2000	June	7.6	-
Kodiak-Little	2000	August	3.7	-
Kodiak-Little	2000	August	3.6	-
Kodiak-Little	2000	September	7.3	-
Kodiak-Little	2000	September	7.3	-
Kodiak-Little	2001	June	4.1	0.0356
Kodiak-Little	2001	June	4.1	0.0347
Kodiak-Little	2001	August	5.2	0.0161
Kodiak-Little	2001	August	5.3	0.0223
Kodiak-Little	2001	September	6	0.0710
Kodiak-Little	2001	September	6	0.0863
Kodiak-Little	2002	June	7	0.154
Kodiak-Little	2002	June	7	0.156
Kodiak-Little	2002	June	7	0.159
Kodiak-Little	2002	August	7	<0.006
Kodiak-Little	2002	August	-	<0.006
Kodiak-Little	2002	August	7	<0.006
Kodiak-Little	2002	September	9	0.329
Kodiak-Little	2002	September	9	0.326
Kodiak-Little	2002	September	9	0.325
Kodiak-Little	2003	June	7	<0.006
Kodiak-Little	2003	June	7	<0.006
Kodiak-Little	2003	August	8	<0.006
Kodiak-Little	2003	August	8	<0.006
Kodiak-Little	2003	September	8	<0.006
Kodiak-Little	2003	September	8	<0.006
Kodiak-Little	2004	June	6.71	0.0634
Kodiak-Little	2004	June	6.75	0.0646
Kodiak-Little	2004	August	7.79	<0.0050
Kodiak-Little	2004	August	7.51	<0.0050
Kodiak-Little	2004	September	7.83	<0.0050
Kodiak-Little	2004	September	8.32	<0.0050
Kodiak-Little	2005	June	5.67	0.0182
Kodiak-Little	2005	June	5.26	0.0180
Kodiak-Little	2005	August	6.90	<0.0050
Kodiak-Little	2005	August	7.01	<0.0050
Kodiak-Little	2005	September	7.83	<0.0050
Kodiak-Little	2005	September	7.58	<0.0050
Kodiak-Little	2006	May	6.81	0.0307

Appendix A.2. Nitrate Water Concentrations and Hardness in Streams of the EKATI Project Area, 1994 to 2011

Stream	Year	Month	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Kodiak-Little	2006	May	7.03	0.0299
Kodiak-Little	2006	August	7.8	0.0182
Kodiak-Little	2006	August	7.8	<0.0050
Kodiak-Little	2006	September	6.73	<0.0050
Kodiak-Little	2006	September	9.88	<0.0050
Kodiak-Little	2007	September	9.97	<0.0050
Kodiak-Little	2007	September	8.7	<0.0050
Kodiak-Little	2007	June	6.22	0.0081
Kodiak-Little	2007	August	7.88	<0.0050
Kodiak-Little	2007	August	7.81	<0.0050
Kodiak-Little	2008	June	7.31	<0.0050
Kodiak-Little	2008	June	7.61	<0.0050
Kodiak-Little	2008	August	7.56	<0.0050
Kodiak-Little	2008	August	7.8	<0.0050
Kodiak-Little	2008	September	9.45	0.0255
Kodiak-Little	2008	September	9.99	0.0255
Kodiak-Little	2009	June	5.44	0.013
Kodiak-Little	2009	June	5.58	0.0133
Kodiak-Little	2009	August	8.12	<0.0050
Kodiak-Little	2009	August	8.22	<0.0050
Kodiak-Little	2009	September	8.31	<0.0050
Kodiak-Little	2009	September	8.14	<0.0050
Kodiak-Little	2010	June	5.49	<0.0050
Kodiak-Little	2010	June	5.69	<0.0050
Kodiak-Little	2010	July	7.52	<0.0050
Kodiak-Little	2010	July	7.56	<0.0050
Kodiak-Little	2010	August	8.89	<0.0050
Kodiak-Little	2010	September	8.89	<0.0050
Kodiak-Little	2010	September	8.86	<0.0050
Kodiak-Little	2010	August	9.04	<0.0050
Kodiak-Little	2011	June	9.23	<0.0050
Kodiak-Little	2011	June	9.15	<0.0050
Kodiak-Little	2011	July	8.28	<0.0050
Kodiak-Little	2011	July	8.3	<0.0050
Kodiak-Little	2011	August	8.49	<0.025
Kodiak-Little	2011	August	8.25	<0.025
Kodiak-Little	2011	September	9.66	<0.0050
Kodiak-Little	2011	September	9.78	<0.0050
Leslie-Moose	2010	June	38.2	0.714
Leslie-Moose	2010	June	40.3	0.714
Leslie-Moose	2010	July	117	2.06
Leslie-Moose	2010	July	120	2.04
Leslie-Moose	2010	August	127	2.52
Leslie-Moose	2010	August	126	2.49
Leslie-Moose	2010	September	143	2.48
Leslie-Moose	2010	September	145	2.48
Leslie-Moose	2011	June	24.6	0.333
Leslie-Moose	2011	June	24.2	0.482
Leslie-Moose	2011	July	125	2.05
Leslie-Moose	2011	July	126	2.06
Leslie-Moose	2011	July	133	1.97
Leslie-Moose	2011	August	130	3.23
Leslie-Moose	2011	August	130	3.22
Leslie-Moose	2011	September	144	2.73
Leslie-Moose	2011	September	146	2.78
Leslie-Moose	2011	September	147	2.65
Leslie-Moose	2011	September	145	2.64
Lower PDC	1997	June	-	-
Lower PDC	1997	July	-	-
Lower PDC	1997	September	-	-
Lower PDC	1998	May	-	-
Lower PDC	1998	June	-	0.23
Lower PDC	1998	June	-	0.2
Lower PDC	1998	July	-	0.39
Lower PDC	1998	August	-	1.02
Lower PDC	1998	September	-	0.33
Lower PDC	1999	June	-	-
Lower PDC	1999	August	-	-
Lower PDC	1999	August	-	-
Lower PDC	1999	September	-	-
Lower PDC	1999	September	-	-
Lower PDC	2000	June	4	0.031
Lower PDC	2000	June	4	0.028
Lower PDC	2000	June	4	0.032
Lower PDC	2000	August	10	0.478
Lower PDC	2000	August	10	0.475
Lower PDC	2000	August	10	0.479
Lower PDC	2000	September	8	0.287
Lower PDC	2000	September	8	0.289
Lower PDC	2000	September	7	0.288
Lower PDC	2001	June	4	0.029
Lower PDC	2001	June	4	0.029
Lower PDC	2001	June	4	0.029
Lower PDC	2001	August	7	0.214
Lower PDC	2001	August	7	0.212
Lower PDC	2001	August	7	0.214
Lower PDC	2001	September	8	0.226
Lower PDC	2001	September	8	0.23
Lower PDC	2001	September	7	0.229
Lower PDC	2002	June	6	0.026
Lower PDC	2002	June	6	0.024
Lower PDC	2002	June	5	0.024
Lower PDC	2002	August	8	0.16
Lower PDC	2002	August	8	0.158
Lower PDC	2002	August	8	0.157
Lower PDC	2002	September	8	<0.006
Lower PDC	2002	September	8	0.13
Lower PDC	2002	September	7	0.131
Lower PDC	2003	June	7	<0.006
Lower PDC	2003	June	7	<0.006
Lower PDC	2003	August	9	0.118
Lower PDC	2003	August	9	0.117
Lower PDC	2003	September	12	0.308
Lower PDC	2003	September	12	0.292
Lower PDC	2004	June	6.12	0.025
Lower PDC	2004	June	5.78	0.0259
Lower PDC	2004	August	8.75	0.0843
Lower PDC	2004	August	8.78	0.0851
Lower PDC	2004	September	9.40	0.210
Lower PDC	2004	September	9.54	0.210
Lower PDC	2005	June	5.11	0.0168
Lower PDC	2005	June	5.03	0.0157
Lower PDC	2005	August	7.32	0.0648
Lower PDC	2005	August	7.12	0.0648
Lower PDC	2005	September	7.38	0.0968
Lower PDC	2005	September	7.41	0.100
Lower PDC	2006	May	4.81	0.0130
Lower PDC	2006	May	4.95	0.0122
Lower PDC	2006	August	7.8	0.0805
Lower PDC	2006	August	7.7	0.0851

Appendix A.2. Nitrate Water Concentrations and Hardness in Streams of the EKATI Project Area, 1994 to 2011

Stream	Year	Month	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Lower PDC	2006	September	10.3	0.146
Lower PDC	2006	September	10.8	0.0407
Lower PDC	2007	September	8.42	0.137
Lower PDC	2007	September	8.97	0.134
Lower PDC	2007	June	4.98	0.0112
Lower PDC	2007	June	4.55	0.0113
Lower PDC	2007	August	7.7	0.0837
Lower PDC	2007	August	7.69	0.0825
Lower PDC	2008	June	5.96	0.0188
Lower PDC	2008	June	6.63	0.0109
Lower PDC	2008	August	6.52	0.0513
Lower PDC	2008	August	6.34	0.053
Lower PDC	2008	September	7.3	0.0917
Lower PDC	2008	September	7.18	0.0943
Lower PDC	2009	June	6.22	0.0116
Lower PDC	2009	June	6.11	0.0163
Lower PDC	2009	August	6.79	0.0582
Lower PDC	2009	August	6.64	0.0553
Lower PDC	2009	September	8.11	0.130
Lower PDC	2009	September	8.16	0.129
Lower PDC	2010	June	4.59	0.0105
Lower PDC	2010	June	4.59	0.0106
Lower PDC	2010	July	5.67	0.0143
Lower PDC	2010	July	5.61	0.0150
Lower PDC	2010	August	10.5	0.0543
Lower PDC	2010	August	10.5	0.0560
Lower PDC	2010	September	11.3	0.151
Lower PDC	2010	September	11.4	0.148
Lower PDC	2011	June	4.9	0.0101
Lower PDC	2011	June	5.58	0.0081
Lower PDC	2011	June	5.5	0.0123
Lower PDC	2011	June	5.51	0.0121
Lower PDC	2011	June	5.84	0.0133
Lower PDC	2011	June	5.92	0.0141
Lower PDC	2011	June	6.11	0.0209
Lower PDC	2011	June	6.84	0.0806
Lower PDC	2011	June	6.45	0.0575
Lower PDC	2011	June	6.48	0.0484
Lower PDC	2011	June	7.3	0.182
Lower PDC	2011	June	6.39	0.0416
Lower PDC	2011	July	6.94	0.0679
Lower PDC	2011	July	6.94	0.0695
Lower PDC	2011	July	8.2	0.0732
Lower PDC	2011	July	8.51	0.074
Lower PDC	2011	July	6.73	0.0495
Lower PDC	2011	July	6.63	0.0471
Lower PDC	2011	July	6.23	0.0377
Lower PDC	2011	July	7.51	0.0447
Lower PDC	2011	July	7.97	0.0407
Lower PDC	2011	July	10.4	0.0644
Lower PDC	2011	July	9.55	0.0397
Lower PDC	2011	July	9.5	0.0609
Lower PDC	2011	July	9.26	0.075
Lower PDC	2011	July	9.29	0.079
Lower PDC	2011	August	8.97	0.083
Lower PDC	2011	August	9.18	0.086
Lower PDC	2011	August	9.82	0.0845
Lower PDC	2011	August	9.84	0.101
Lower PDC	2011	August	11.4	0.174
Lower PDC	2011	August	8.8	0.0904
Lower PDC	2011	August	8.75	0.081
Lower PDC	2011	September	8.5	0.0784
Lower PDC	2011	September	8.45	0.0767
Lower PDC	2011	September	9.01	0.0845
Lower PDC	2011	September	7.69	0.0679
Lower PDC	2011	September	7.56	0.0605
Lower PDC	2011	September	8.06	0.063
Lower PDC	2011	September	7.98	0.0613
Moose-Nero	1996	June	5.29	0.017
Moose-Nero	1996	June	5.3	0.019
Moose-Nero	1996	August	5.28	0.01
Moose-Nero	1997	June	8.21	0.174
Moose-Nero	1997	July	4.73	0.015
Moose-Nero	1997	September	4.78	0.0105
Moose-Nero	1997	September	4.97	0.0048
Moose-Nero	1998	May	7	0.569
Moose-Nero	1998	May	7	0.57
Moose-Nero	1998	May	7	0.571
Moose-Nero	1998	June	4	0.078
Moose-Nero	1998	July	6	0.032
Moose-Nero	1998	July	6	0.033
Moose-Nero	1998	July	<1	0.032
Moose-Nero	1998	August	5	0.038
Moose-Nero	1998	August	5	0.033
Moose-Nero	1998	August	4	0.033
Moose-Nero	1998	September	7	0.061
Moose-Nero	1998	September	6	0.061
Moose-Nero	1998	September	7	0.06
Moose-Nero	1999	June	9	0.275
Moose-Nero	1999	June	9	0.277
Moose-Nero	1999	June	9	0.274
Moose-Nero	1999	August	6	0.251
Moose-Nero	1999	August	6	0.252
Moose-Nero	1999	August	6	0.254
Moose-Nero	1999	September	8	0.251
Moose-Nero	1999	September	8	0.252
Moose-Nero	1999	September	8	0.25
Moose-Nero	2000	June	8	0.391
Moose-Nero	2000	June	7	0.35
Moose-Nero	2000	June	7	0.394
Moose-Nero	2000	August	11	0.429
Moose-Nero	2000	August	11	0.425
Moose-Nero	2000	August	11	0.428
Moose-Nero	2000	September	12	0.517
Moose-Nero	2000	September	12	0.519
Moose-Nero	2000	September	12	0.517
Moose-Nero	2001	June	11	0.47
Moose-Nero	2001	June	12	0.473
Moose-Nero	2001	June	12	0.478
Moose-Nero	2001	August	16	0.42
Moose-Nero	2001	August	15	0.419
Moose-Nero	2001	August	15	0.412
Moose-Nero	2001	September	16	0.634
Moose-Nero	2001	September	17	0.624
Moose-Nero	2001	September	17	0.629
Moose-Nero	2002	June	8	0.153
Moose-Nero	2002	June	9	0.153
Moose-Nero	2002	June	9	0.155
Moose-Nero	2002	August	22	0.348
Moose-Nero	2002	August	22	0.342

Appendix A.2. Nitrate Water Concentrations and Hardness in Streams of the EKATI Project Area, 1994 to 2011

Stream	Year	Month	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Moose-Nero	2002	August	22	0.343
Moose-Nero	2002	September	14	0.235
Moose-Nero	2002	September	14	0.235
Moose-Nero	2002	September	14	0.233
Moose-Nero	2003	June	9	0.124
Moose-Nero	2003	June	10	0.127
Moose-Nero	2003	August	23	0.187
Moose-Nero	2003	August	22	0.185
Moose-Nero	2003	September	27	0.301
Moose-Nero	2003	September	26	0.299
Moose-Nero	2004	July	10	0.0916
Moose-Nero	2004	July	10.3	0.0912
Moose-Nero	2004	August	38.2	0.611
Moose-Nero	2004	August	36.9	0.612
Moose-Nero	2004	September	49.0	0.787
Moose-Nero	2004	September	49.2	0.798
Moose-Nero	2005	June	32.9	0.990
Moose-Nero	2005	June	34.3	1.01
Moose-Nero	2005	August	33.0	0.438
Moose-Nero	2005	August	32.8	0.427
Moose-Nero	2005	September	26.6	0.200
Moose-Nero	2005	September	25.0	0.194
Moose-Nero	2006	May	14.7	0.138
Moose-Nero	2006	May	14.7	0.139
Moose-Nero	2006	August	105	2.03
Moose-Nero	2006	August	108	2.06
Moose-Nero	2006	September	80.7	1.20
Moose-Nero	2006	September	129	2.57
Moose-Nero	2007	September	136	2.48
Moose-Nero	2007	September	137	2.49
Moose-Nero	2007	June	11.2	0.0969
Moose-Nero	2007	August	113	2.03
Moose-Nero	2007	August	109	2.02
Moose-Nero	2008	June	26.5	0.294
Moose-Nero	2008	June	27.1	0.294
Moose-Nero	2008	August	33.5	0.171
Moose-Nero	2008	August	33.6	0.171
Moose-Nero	2008	September	31.3	0.205
Moose-Nero	2008	September	31.6	0.207
Moose-Nero	2009	June	24.4	0.328
Moose-Nero	2009	June	36.8	0.324
Moose-Nero	2009	August	93.3	1.8
Moose-Nero	2009	August	93.1	1.8
Moose-Nero	2009	September	98	1.79
Moose-Nero	2009	September	99.3	1.8
Moose-Nero	2010	June	20.7	0.180
Moose-Nero	2010	June	20.9	0.182
Moose-Nero	2010	July	31.5	0.227
Moose-Nero	2010	July	31.2	0.226
Moose-Nero	2010	August	94.5	1.52
Moose-Nero	2010	August	94.4	1.53
Moose-Nero	2010	September	112	1.60
Moose-Nero	2010	September	112	1.60
Moose-Nero	2011	June	14	0.0656
Moose-Nero	2011	June	13.6	0.0464
Moose-Nero	2011	July	41.2	0.307
Moose-Nero	2011	July	40.9	0.31
Moose-Nero	2011	July	50.1	0.392
Moose-Nero	2011	August	113	2.26
Moose-Nero	2011	August	115	2.25
Moose-Nero	2011	September	93.4	1.45
Moose-Nero	2011	September	93.8	1.45
Moose-Nero	2011	September	78.6	1.21
Nanuq Outflow	1997	September	3.1	0.0097
Nanuq Outflow	1998	May	2	0.012
Nanuq Outflow	1998	May	2	0.01
Nanuq Outflow	1998	May	2	0.012
Nanuq Outflow	1998	June	3	<0.006
Nanuq Outflow	1998	July	3	0.008
Nanuq Outflow	1998	July	3	0.007
Nanuq Outflow	1998	July	3	0.007
Nanuq Outflow	1998	August	<1	0.012
Nanuq Outflow	1998	August	3	0.012
Nanuq Outflow	1998	August	3	0.011
Nanuq Outflow	1998	September	3	0.011
Nanuq Outflow	1998	September	3	0.01
Nanuq Outflow	1998	September	3	0.01
Nanuq Outflow	1999	June	2	0.015
Nanuq Outflow	1999	June	2	0.015
Nanuq Outflow	1999	June	2	0.016
Nanuq Outflow	1999	August	3	<0.006
Nanuq Outflow	1999	August	3	<0.006
Nanuq Outflow	1999	August	3	<0.006
Nanuq Outflow	1999	September	3	0.006
Nanuq Outflow	1999	September	3	0.007
Nanuq Outflow	1999	September	3	0.007
Nanuq Outflow	2000	June	3	0.016
Nanuq Outflow	2000	June	3	0.018
Nanuq Outflow	2000	June	3	0.015
Nanuq Outflow	2000	August	3	0.036
Nanuq Outflow	2000	August	3	<0.006
Nanuq Outflow	2000	August	3	<0.006
Nanuq Outflow	2000	September	2	<0.006
Nanuq Outflow	2000	September	2	<0.006
Nanuq Outflow	2000	September	3	<0.006
Nanuq Outflow	2001	June	3	0.01
Nanuq Outflow	2001	June	3	0.008
Nanuq Outflow	2001	June	3	0.009
Nanuq Outflow	2001	August	3	<0.006
Nanuq Outflow	2001	August	3	0.006
Nanuq Outflow	2001	August	3	0.011
Nanuq Outflow	2001	September	3	<0.006
Nanuq Outflow	2001	September	3	<0.006
Nanuq Outflow	2001	September	3	<0.006
Nanuq Outflow	2002	June	2	0.01
Nanuq Outflow	2002	June	2	0.007
Nanuq Outflow	2002	June	3	0.009
Nanuq Outflow	2002	August	3	<0.006
Nanuq Outflow	2002	August	3	<0.006
Nanuq Outflow	2002	August	-	<0.006
Nanuq Outflow	2002	September	3	<0.006
Nanuq Outflow	2002	September	3	<0.006
Nanuq Outflow	2002	September	3	<0.006
Nanuq Outflow	2003	June	4	<0.006
Nanuq Outflow	2003	June	4	<0.006
Nanuq Outflow	2003	August	3	<0.006
Nanuq Outflow	2003	August	4	<0.006
Nanuq Outflow	2003	September	3	<0.006
Nanuq Outflow	2003	September	3	<0.006
Nanuq Outflow	2004	June	3.46	0.0087

Appendix A.2. Nitrate Water Concentrations and Hardness in Streams of the EKATI Project Area, 1994 to 2011

Stream	Year	Month	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Nanuq Outflow	2004	June	3.91	0.0084
Nanuq Outflow	2004	August	3.23	0.0059
Nanuq Outflow	2004	August	3.30	0.0061
Nanuq Outflow	2004	September	3.78	0.0058
Nanuq Outflow	2004	September	3.43	0.0052
Nanuq Outflow	2005	June	3.89	0.0115
Nanuq Outflow	2005	June	3.98	0.0110
Nanuq Outflow	2005	August	3.29	0.0055
Nanuq Outflow	2005	August	3.15	<0.0050
Nanuq Outflow	2005	September	3.40	0.0083
Nanuq Outflow	2005	September	3.47	0.0081
Nanuq Outflow	2006	May	3.81	<0.0050
Nanuq Outflow	2006	May	3.81	<0.0050
Nanuq Outflow	2006	August	3.1	0.0050
Nanuq Outflow	2006	August	4.4	0.0061
Nanuq Outflow	2006	September	3.73	0.0091
Nanuq Outflow	2006	September	3.43	0.0115
Nanuq Outflow	2007	September	2.81	0.0066
Nanuq Outflow	2007	September	2.86	0.005
Nanuq Outflow	2007	June	4.23	0.02
Nanuq Outflow	2007	August	3.37	<0.0050
Nanuq Outflow	2007	August	3.38	<0.0050
Nanuq Outflow	2008	June	3.3	<0.0050
Nanuq Outflow	2008	June	3.4	<0.0050
Nanuq Outflow	2008	August	3.24	<0.0050
Nanuq Outflow	2008	August	3.18	<0.0050
Nanuq Outflow	2008	September	3.27	<0.0050
Nanuq Outflow	2008	September	3.19	<0.0050
Nanuq Outflow	2009	June	2.82	0.0054
Nanuq Outflow	2009	June	2.98	0.0067
Nanuq Outflow	2009	August	3.24	<0.0050
Nanuq Outflow	2009	August	3.25	<0.0050
Nanuq Outflow	2009	September	3.71	0.0053
Nanuq Outflow	2009	September	3.41	0.0054
Nanuq Outflow	2010	June	3.8	0.0108
Nanuq Outflow	2010	June	3.1	0.0115
Nanuq Outflow	2010	July	3.39	<0.0050
Nanuq Outflow	2010	July	3.58	<0.0050
Nanuq Outflow	2010	August	3.63	<0.0050
Nanuq Outflow	2010	August	3.54	0.0053
Nanuq Outflow	2010	September	3.67	0.0053
Nanuq Outflow	2010	September	3.67	0.0063
Nanuq Outflow	2011	June	2.94	<0.0050
Nanuq Outflow	2011	June	2.94	<0.0050
Nanuq Outflow	2011	July	3.52	<0.0050
Nanuq Outflow	2011	July	3.48	<0.0050
Nanuq Outflow	2011	August	3.19	<0.025
Nanuq Outflow	2011	August	3.2	<0.025
Nanuq Outflow	2011	September	3.65	0.0067
Nanuq Outflow	2011	September	3.6	0.007
Nema-Martine	1995	June	5.14	0.059
Nema-Martine	1995	August	4.92	<0.005
Nema-Martine	1995	September	5.04	<0.005
Nema-Martine	1996	June	4.69	0.053
Nema-Martine	1996	August	4.69	<0.005
Nema-Martine	1997	June	8.88	0.157
Nema-Martine	1997	July	3.77	0.002
Nema-Martine	1997	September	4.86	0.0022
Nema-Martine	1998	May	5	0.121
Nema-Martine	1998	May	5	0.122
Nema-Martine	1998	May	5	0.122
Nema-Martine	1998	June	5	<0.006
Nema-Martine	1998	July	6	0.006
Nema-Martine	1998	July	6	0.006
Nema-Martine	1998	July	5	<0.006
Nema-Martine	1998	August	5	<0.006
Nema-Martine	1998	August	5	<0.006
Nema-Martine	1998	August	5	<0.006
Nema-Martine	1998	September	6	<0.006
Nema-Martine	1998	September	6	<0.006
Nema-Martine	1998	September	6	<0.006
Nema-Martine	1999	June	8	0.232
Nema-Martine	1999	June	8	0.23
Nema-Martine	1999	June	8	0.23
Nema-Martine	1999	August	5	<0.006
Nema-Martine	1999	August	5	<0.006
Nema-Martine	1999	August	5	<0.006
Nema-Martine	1999	September	7	0.087
Nema-Martine	1999	September	7	0.09
Nema-Martine	1999	September	7	0.086
Nema-Martine	2000	June	7	0.271
Nema-Martine	2000	June	7	0.295
Nema-Martine	2000	June	7	0.274
Nema-Martine	2000	August	7	<0.006
Nema-Martine	2000	August	7	<0.006
Nema-Martine	2000	August	7	<0.006
Nema-Martine	2000	September	7	0.009
Nema-Martine	2000	September	7	0.01
Nema-Martine	2000	September	7	0.006
Nema-Martine	2001	June	6	0.098
Nema-Martine	2001	June	6	0.098
Nema-Martine	2001	June	6	0.091
Nema-Martine	2001	August	9	0.016
Nema-Martine	2001	August	9	0.016
Nema-Martine	2001	August	9	0.016
Nema-Martine	2001	September	11	0.097
Nema-Martine	2001	September	12	0.096
Nema-Martine	2001	September	11	0.096
Nema-Martine	2002	June	12	0.191
Nema-Martine	2002	June	12	0.193
Nema-Martine	2002	June	12	0.192
Nema-Martine	2002	August	14	<0.006
Nema-Martine	2002	August	14	<0.006
Nema-Martine	2002	August	14	<0.006
Nema-Martine	2002	September	14	0.009
Nema-Martine	2002	September	15	0.009
Nema-Martine	2002	September	14	0.009
Nema-Martine	2003	June	15	0.126
Nema-Martine	2003	June	15	0.131
Nema-Martine	2003	August	15	<0.006
Nema-Martine	2003	August	15	<0.006
Nema-Martine	2003	September	14	<0.006
Nema-Martine	2003	September	15	<0.006
Nema-Martine	2004	June	14.7	0.23
Nema-Martine	2004	June	15	0.23
Nema-Martine	2004	August	25.5	0.232
Nema-Martine	2004	August	24.6	0.232
Nema-Martine	2004	September	29.5	0.179
Nema-Martine	2004	September	27.9	0.181
Nema-Martine	2005	June	24.6	0.385

Appendix A.2. Nitrate Water Concentrations and Hardness in Streams of the EKATI Project Area, 1994 to 2011

Stream	Year	Month	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Nema-Martine	2005	June	23.5	0.387
Nema-Martine	2005	August	50.5	0.595
Nema-Martine	2005	August	49.3	0.592
Nema-Martine	2005	September	53.4	0.450
Nema-Martine	2005	September	51.6	0.448
Nema-Martine	2006	May	25.2	0.197
Nema-Martine	2006	May	24.8	0.198
Nema-Martine	2006	August	55.4	0.540
Nema-Martine	2006	August	56.3	0.543
Nema-Martine	2006	September	61.1	0.552
Nema-Martine	2006	September	57.7	0.602
Nema-Martine	2007	September	87.1	1.02
Nema-Martine	2007	September	85.3	1.02
Nema-Martine	2007	June	36.4	0.525
Nema-Martine	2007	August	66	0.668
Nema-Martine	2007	August	65.2	0.67
Nema-Martine	2008	June	54.1	0.518
Nema-Martine	2008	June	53.6	0.514
Nema-Martine	2008	August	75	0.493
Nema-Martine	2008	August	77.1	0.491
Nema-Martine	2008	September	70.9	0.66
Nema-Martine	2008	September	72.2	0.654
Nema-Martine	2009	June	59.3	0.859
Nema-Martine	2009	June	59.6	0.859
Nema-Martine	2009	August	49.9	0.405
Nema-Martine	2009	August	50.3	0.402
Nema-Martine	2009	September	50.7	0.261
Nema-Martine	2009	September	51.2	0.262
Nema-Martine	2010	June	41.1	0.368
Nema-Martine	2010	June	40.0	0.367
Nema-Martine	2010	July	47.9	0.201
Nema-Martine	2010	July	47.5	0.199
Nema-Martine	2010	August	49.8	0.203
Nema-Martine	2010	September	52.1	0.0912
Nema-Martine	2010	September	50.9	0.104
Nema-Martine	2010	August	50.6	0.205
Nema-Martine	2011	June	19.4	0.0687
Nema-Martine	2011	June	19.3	0.0673
Nema-Martine	2011	July	44.7	0.133
Nema-Martine	2011	July	44.5	0.134
Nema-Martine	2011	July	47.2	0.104
Nema-Martine	2011	August	57.5	0.223
Nema-Martine	2011	August	57.6	0.222
Nema-Martine	2011	September	73.7	0.411
Nema-Martine	2011	September	74.4	0.409
Nema-Martine	2011	September	69.3	0.293
Slipper-Lac de Gras	1994	August	3.73	0.029
Slipper-Lac de Gras	1995	June	4.09	0.023
Slipper-Lac de Gras	1995	June	4.11	0.022
Slipper-Lac de Gras	1995	August	4.22	<0.005
Slipper-Lac de Gras	1995	September	4.27	<0.005
Slipper-Lac de Gras	1996	June	4.08	0.016
Slipper-Lac de Gras	1996	August	4.41	0.005
Slipper-Lac de Gras	1997	July	4.21	<0.001
Slipper-Lac de Gras	1997	September	4.64	0.0036
Slipper-Lac de Gras	1998	May	5	0.025
Slipper-Lac de Gras	1998	May	5	0.025
Slipper-Lac de Gras	1998	May	5	0.025
Slipper-Lac de Gras	1998	June	4	<0.006
Slipper-Lac de Gras	1998	July	4	<0.006
Slipper-Lac de Gras	1998	July	4	<0.006
Slipper-Lac de Gras	1998	August	4	<0.006
Slipper-Lac de Gras	1998	August	4	<0.006
Slipper-Lac de Gras	1998	August	4	<0.006
Slipper-Lac de Gras	1998	September	5	<0.006
Slipper-Lac de Gras	1998	September	5	<0.006
Slipper-Lac de Gras	1998	September	5	<0.006
Slipper-Lac de Gras	1999	June	8	0.155
Slipper-Lac de Gras	1999	June	8	0.154
Slipper-Lac de Gras	1999	June	8	0.156
Slipper-Lac de Gras	1999	August	5	<0.006
Slipper-Lac de Gras	1999	August	5	<0.006
Slipper-Lac de Gras	1999	August	5	<0.006
Slipper-Lac de Gras	1999	September	6	<0.006
Slipper-Lac de Gras	1999	September	6	<0.006
Slipper-Lac de Gras	1999	September	6	<0.006
Slipper-Lac de Gras	2000	June	8	0.234
Slipper-Lac de Gras	2000	June	8	0.233
Slipper-Lac de Gras	2000	June	8	0.244
Slipper-Lac de Gras	2000	August	6	<0.006
Slipper-Lac de Gras	2000	August	6	<0.006
Slipper-Lac de Gras	2000	August	6	<0.006
Slipper-Lac de Gras	2000	September	6	<0.006
Slipper-Lac de Gras	2000	September	6	<0.006
Slipper-Lac de Gras	2000	September	6	<0.006
Slipper-Lac de Gras	2001	June	6	0.088
Slipper-Lac de Gras	2001	June	6	0.088
Slipper-Lac de Gras	2001	June	6	0.095
Slipper-Lac de Gras	2001	August	6	<0.006
Slipper-Lac de Gras	2001	August	6	<0.006
Slipper-Lac de Gras	2001	August	6	<0.006
Slipper-Lac de Gras	2001	September	6	<0.006
Slipper-Lac de Gras	2001	September	6	<0.006
Slipper-Lac de Gras	2001	September	6	<0.006
Slipper-Lac de Gras	2002	June	8	0.033
Slipper-Lac de Gras	2002	June	9	0.032
Slipper-Lac de Gras	2002	June	8	0.032
Slipper-Lac de Gras	2002	August	8	<0.006
Slipper-Lac de Gras	2002	August	8	<0.006
Slipper-Lac de Gras	2002	August	8	<0.006
Slipper-Lac de Gras	2002	September	9	<0.006
Slipper-Lac de Gras	2002	September	9	<0.006
Slipper-Lac de Gras	2002	September	9	<0.006
Slipper-Lac de Gras	2003	June	9	0.031
Slipper-Lac de Gras	2003	June	9	0.03
Slipper-Lac de Gras	2003	August	10	<0.006
Slipper-Lac de Gras	2003	August	10	<0.006
Slipper-Lac de Gras	2003	September	10	<0.006
Slipper-Lac de Gras	2003	September	10	<0.006
Slipper-Lac de Gras	2004	June	16	0.238
Slipper-Lac de Gras	2004	June	16.6	0.237
Slipper-Lac de Gras	2004	August	12.8	<0.0050
Slipper-Lac de Gras	2004	August	12.3	<0.0050
Slipper-Lac de Gras	2004	September	13.6	<0.0050
Slipper-Lac de Gras	2004	September	13.0	<0.0050
Slipper-Lac de Gras	2005	June	19.1	0.198
Slipper-Lac de Gras	2005	June	19.5	0.200
Slipper-Lac de Gras	2005	August	21.3	0.0256
Slipper-Lac de Gras	2005	August	21.3	0.0254

Appendix A.2. Nitrate Water Concentrations and Hardness in Streams of the EKATI Project Area, 1994 to 2011

Stream	Year	Month	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Slipper-Lac de Gras	2005	September	25.0	0.0066
Slipper-Lac de Gras	2005	September	25.4	0.0059
Slipper-Lac de Gras	2006	May	24.6	0.127
Slipper-Lac de Gras	2006	May	24.2	0.126
Slipper-Lac de Gras	2006	August	19.9	<0.0050
Slipper-Lac de Gras	2006	August	20.4	<0.0050
Slipper-Lac de Gras	2006	September	25.9	<0.0050
Slipper-Lac de Gras	2006	September	26.2	<0.0050
Slipper-Lac de Gras	2007	September	27.7	0.0078
Slipper-Lac de Gras	2007	September	27.4	0.0081
Slipper-Lac de Gras	2007	June	44.7	0.447
Slipper-Lac de Gras	2007	August	22.4	0.0125
Slipper-Lac de Gras	2007	August	22.4	<0.0050
Slipper-Lac de Gras	2008	June	25.7	0.197
Slipper-Lac de Gras	2008	June	25.2	0.198
Slipper-Lac de Gras	2008	August	27.6	0.0221
Slipper-Lac de Gras	2008	August	27	0.0224
Slipper-Lac de Gras	2008	September	29.6	0.005
Slipper-Lac de Gras	2008	September	29.7	<0.0050
Slipper-Lac de Gras	2009	June	56.9	0.377
Slipper-Lac de Gras	2009	June	54	0.377
Slipper-Lac de Gras	2009	August	19.6	<0.0050
Slipper-Lac de Gras	2009	August	21.4	<0.0050
Slipper-Lac de Gras	2009	September	21.7	0.006
Slipper-Lac de Gras	2009	September	21.6	0.0055
Slipper-Lac de Gras	2010	June	26.9	0.0857
Slipper-Lac de Gras	2010	June	25.9	0.0862
Slipper-Lac de Gras	2010	July	21.8	<0.0050
Slipper-Lac de Gras	2010	July	21.5	<0.0050
Slipper-Lac de Gras	2010	August	24.2	<0.0050
Slipper-Lac de Gras	2010	August	24.3	<0.0050
Slipper-Lac de Gras	2010	September	27.9	<0.0050
Slipper-Lac de Gras	2010	September	28.4	<0.0050
Slipper-Lac de Gras	2011	June	16.2	0.0458
Slipper-Lac de Gras	2011	June	16.3	0.0504
Slipper-Lac de Gras	2011	July	24.1	<0.0050
Slipper-Lac de Gras	2011	July	23.8	<0.0050
Slipper-Lac de Gras	2011	July	25.8	<0.0050
Slipper-Lac de Gras	2011	August	22.9	<0.025
Slipper-Lac de Gras	2011	August	23	<0.025
Slipper-Lac de Gras	2011	September	29.4	<0.0050
Slipper-Lac de Gras	2011	September	29.2	<0.0050
Slipper-Lac de Gras	2011	September	31.5	<0.0050
Vulture-Polar	1994	June	3.12	<0.005
Vulture-Polar	1994	June	3.08	<0.005
Vulture-Polar	1994	June	3.21	<0.005
Vulture-Polar	1994	August	3.83	0.044
Vulture-Polar	1995	July	3.53	<0.005
Vulture-Polar	1995	August	3.8	<0.005
Vulture-Polar	1995	September	4.4	<0.005
Vulture-Polar	1996	June	3.16	<0.005
Vulture-Polar	1996	August	3.93	0.007
Vulture-Polar	1997	July	3.46	<0.001
Vulture-Polar	1997	September	4.33	0.0036
Vulture-Polar	1998	May	4	<0.006
Vulture-Polar	1998	May	3	0.008
Vulture-Polar	1998	May	3	0.009
Vulture-Polar	1998	June	3	<0.006
Vulture-Polar	1998	July	4	0.008
Vulture-Polar	1998	July	4	0.008
Vulture-Polar	1998	July	4	0.008
Vulture-Polar	1998	August	4	0.016
Vulture-Polar	1998	August	4	0.015
Vulture-Polar	1998	August	4	0.016
Vulture-Polar	1998	September	6	0.015
Vulture-Polar	1998	September	6	0.015
Vulture-Polar	1998	September	6	0.012
Vulture-Polar	1999	June	3	<0.006
Vulture-Polar	1999	June	3	<0.006
Vulture-Polar	1999	June	3	<0.006
Vulture-Polar	1999	August	4	<0.006
Vulture-Polar	1999	August	4	<0.006
Vulture-Polar	1999	August	4	<0.006
Vulture-Polar	1999	September	6	0.007
Vulture-Polar	1999	September	6	0.009
Vulture-Polar	1999	September	6	0.009
Vulture-Polar	2000	June	2	<0.006
Vulture-Polar	2000	June	2	<0.006
Vulture-Polar	2000	June	2	<0.006
Vulture-Polar	2000	August	4	<0.006
Vulture-Polar	2000	August	4	<0.006
Vulture-Polar	2000	August	4	<0.006
Vulture-Polar	2000	September	4	0.012
Vulture-Polar	2000	September	4	0.012
Vulture-Polar	2000	September	4	0.011
Vulture-Polar	2001	June	4	0.016
Vulture-Polar	2001	June	4	0.016
Vulture-Polar	2001	June	4	0.01
Vulture-Polar	2001	August	4	0.007
Vulture-Polar	2001	August	4	0.007
Vulture-Polar	2001	August	4	0.006
Vulture-Polar	2001	September	4	0.016
Vulture-Polar	2001	September	4	0.013
Vulture-Polar	2001	September	4	0.015
Vulture-Polar	2002	June	4	<0.006
Vulture-Polar	2002	June	4	<0.006
Vulture-Polar	2002	June	4	<0.006
Vulture-Polar	2002	August	-	<0.006
Vulture-Polar	2002	August	4	<0.006
Vulture-Polar	2002	August	5	<0.006
Vulture-Polar	2002	September	5	<0.006
Vulture-Polar	2002	September	5	<0.006
Vulture-Polar	2002	September	5	<0.006
Vulture-Polar	2003	June	4	<0.006
Vulture-Polar	2003	June	4	<0.006
Vulture-Polar	2003	August	5	<0.006
Vulture-Polar	2003	August	5	<0.006
Vulture-Polar	2003	September	4	0.008
Vulture-Polar	2003	September	4	0.01
Vulture-Polar	2004	June	3.72	<0.0050
Vulture-Polar	2004	June	3.81	<0.0050
Vulture-Polar	2004	August	4.17	0.0085
Vulture-Polar	2004	August	4.10	0.0105
Vulture-Polar	2004	September	4.01	<0.0050
Vulture-Polar	2004	September	4.20	0.0061
Vulture-Polar	2005	June	3.21	<0.0050
Vulture-Polar	2005	June	3.24	<0.0050
Vulture-Polar	2005	August	3.67	0.0065
Vulture-Polar	2005	August	3.75	0.0072
Vulture-Polar	2005	September	4.60	<0.0050

Appendix A.2. Nitrate Water Concentrations and Hardness in Streams of the EKATI Project Area, 1994 to 2011

Stream	Year	Month	Hardness (mg/L)	Nitrate (mg/L NO_3-N)
Vulture-Polar	2005	September	4.39	<0.0050
Vulture-Polar	2006	May	3.38	<0.0050
Vulture-Polar	2006	May	3.34	<0.0050
Vulture-Polar	2006	August	4.4	<0.0050
Vulture-Polar	2006	August	3.3	0.0051
Vulture-Polar	2006	September	5.36	<0.0050
Vulture-Polar	2006	September	5.83	0.0185
Vulture-Polar	2007	September	5.14	0.0105
Vulture-Polar	2007	September	4.82	0.0117
Vulture-Polar	2007	June	3.32	<0.0050
Vulture-Polar	2007	August	4.36	0.0075
Vulture-Polar	2007	August	4.27	0.0079
Vulture-Polar	2008	June	4.47	<0.0050
Vulture-Polar	2008	June	3.9	<0.0050
Vulture-Polar	2008	August	4.06	0.007
Vulture-Polar	2008	August	4.84	0.0071
Vulture-Polar	2008	September	5.97	<0.0050
Vulture-Polar	2008	September	5.9	0.0125
Vulture-Polar	2009	June	3.34	<0.0050
Vulture-Polar	2009	June	3.56	<0.0050
Vulture-Polar	2009	August	4.4	0.0054
Vulture-Polar	2009	August	3.72	0.0052
Vulture-Polar	2009	September	4.17	0.0089
Vulture-Polar	2009	September	4.12	0.0075
Vulture-Polar	2010	June	4.30	<0.0050
Vulture-Polar	2010	June	4.35	<0.0050
Vulture-Polar	2010	July	4.13	<0.0050
Vulture-Polar	2010	July	4.18	<0.0050
Vulture-Polar	2010	August	4.61	<0.0050
Vulture-Polar	2010	August	4.65	0.0058
Vulture-Polar	2010	September	5.17	0.0144
Vulture-Polar	2010	September	5.07	0.0139
Vulture-Polar	2011	June	4.91	<0.0050
Vulture-Polar	2011	June	4.76	<0.0050
Vulture-Polar	2011	July	4.17	<0.0050
Vulture-Polar	2011	July	4.21	<0.0050
Vulture-Polar	2011	August	4.44	<0.025
Vulture-Polar	2011	August	4.43	<0.025
Vulture-Polar	2011	September	5.42	0.007
Vulture-Polar	2011	September	5.38	<0.0050

Note: < indicates less than the analytical detection limit provided.

Appendix B

Relationship between Water Hardness and Toxicity of Nitrate (Nautilus 2011a, 2011b)

Rescan™
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Evaluation of the role of hardness in modifying the toxicity of nitrate to freshwater organisms

Final Report

Report date:
April 4, 2011

Submitted to:

Mining Association of BC
Vancouver, BC

8664 Commerce Court
Burnaby, BC
V5A 4N7

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1.0 INTRODUCTION

The toxicity of major anions, such as sulphate and chloride, has been shown to be reduced with increasing water hardness using some species (Elphick et al., 2011a and b). However, no evaluations have been reported on the effect of hardness on the toxicity of nitrate. The mechanism resulting in reduced toxicity of sulphate and chloride at elevated hardness has not been definitively described; however, it is likely related to effects of calcium and/or magnesium on the permeability of the membrane or, alternatively, results from competitive exclusion at passive uptake sites by these or other ions. Regardless of the mechanism, it is possible that toxicity of nitrate may similarly be reduced with increasing hardness.

The testing described here was performed to evaluate the role of hardness in modifying the toxicity of nitrate to rainbow trout, fathead minnows, *Ceriodaphnia dubia*, *Hyalella azteca*, and *Chironomus dilutus* (formerly called *Chironomus tentans*). These test species were evaluated for toxicity across a range of three or four hardnesses. In addition, a test with a green alga, *Pseudokirchneriella subcapitata*, was also conducted at a single hardness.

2.0 METHODS

Test waters were prepared by addition of reagent grade salts to meet the target hardness level, with the exception of the very soft water (~15 mg/L) which was used in some of the tests, which was Metro Vancouver dechlorinated municipal tapwater with no added salts. Salt additions followed the ratios of salts specified in USEPA (2003), with the exception of tests using *Hyalella azteca*, which employed a higher concentration of chloride, consistent with recommendations for this species of Environment Canada (1997). Nitrate was introduced by addition of reagent grade sodium nitrate. Hardness and alkalinity was measured in each of the water types used in the tests. At a minimum, nitrate concentrations were measured in all test solutions at test initiation, and in a subset of concentrations bracketing the effect level at test termination (with the exception of the test using *Pseudokirchneriella subcapitata*, which was only measured at test initiation).

Tests using the two fish species were conducted at four hardnesses (approximately 15, 45, 90 and 160 mg/L), whereas the invertebrate species were only tested at the three higher hardnesses. The invertebrates were not tested at the lowest hardness because some of these organisms (in particular, *C. dubia* and *H. azteca*) do not tolerate low ionic strength waters well. Test concentrations were spaced a factor of two apart.

C. dubia were pre-acclimated to the hardness associated with the test for at least two generations prior to initiation of the tests. The other species were not pre-acclimated to the specific hardnesses.

Statistical analyses were conducted using nominal concentrations of nitrate and using CETIS version 1.8 (Tidepool Software).

2.1 Acute toxicity tests

Acute toxicity tests were conducted using rainbow trout and *Hyalella azteca*. Tests were conducted according to Environment Canada guidelines, and following methods summarized in Tables 1 and 2. In the case of *H. azteca*, the test methods followed those specified for conducting reference toxicant tests for this species, typically conducted in conjunction with sediment testing programs.

Table 1. Summary of test conditions: acute tests using rainbow trout and *Hyalella azteca*.

Test species	Rainbow trout	*Hyalella azteca*
Test type	96 hr static	96 hr static
Endpoints	Survival	Survival
Organism source	Fraser Valley Trout Hatchery	Aquatic Biosystems, Fort Collins CO
Organism age	Fry – 0.3 – 0.6 g	6 – 8 days old
Feeding	None	0 and 48 hr, Tetramin
Test chamber	15-L glass aquaria	300 mL glass
Test volume	10 L	200 mL
Test temperature	15 ± 1°C	23 ± 1°C
Control water	Dechlorinated municipal tapwater	Moderately hard synthetic water,
Organisms/replicate	10	10
Number of replicates	1	3
Photoperiod	16 hours light/8 hours dark	16 hours light/8 hours dark
Aeration	Continuous	None
Test Method	Environment Canada (2000)	Environment Canada (1997a)
Acceptability criterion for controls	≥90% survival	≥90% survival

2.2 Chronic toxicity tests

Chronic toxicity tests were conducted across a range of hardnesses using fathead minnows, *Ceriodaphnia dubia, Hyalella azteca* and *Chironomus dilutus*. Tests using fathead minnows and *C. dubia* were conducted according to Environment Canada guidelines for these species (Tables 2 and 3). Tests using *H. azteca* and *C. dilutus* were modified from Environment Canada test methods for evaluating sediments for toxicity; tests were adapted by using control sediment for all exposures, and exposing the organisms to various concentrations of nitrate in the overlying water, which was renewed with freshly prepared solution three times per week (Tables 4 and 5).

A chronic toxicity test was also conducted using *Pseudokirchneriella subcapitata* at a single hardness (~10 mg/L) following Environment Canada procedures, which are summarized in Table 6.

Table 2. Summary of test conditions: 7-d fathead minnow survival and growth test.

Test organism	*Pimephales promelas*
Test organism source	Aquatic BioSystems, Fort Collins, CO
Test organism age	<24 hr post hatch
Test type	Static-renewal (daily)
Test duration	7 days
Test vessel	375-mL glass jars
Test Treatment	200 mL
Test replicates	3
No. of organisms	10 per replicate
Test temperature	25 ± 1°C
Feeding	*Artemia*, twice daily
Photoperiod	16 hours light/8 hours dark
Aeration	None
Test protocol	Environment Canada (1992), EPS 1/RM/22
Test endpoints	Survival and dry weight
Test acceptability criterion for controls	Mean control survival of ≥80% and ≥0.1 mg/amphipod dry weight
Reference Toxicant	NaCl

Table 3. Summary of test conditions: 7-d *Ceriodaphnia dubia* test.

Test type	Static renewal (daily)
Endpoints	Survival and reproduction
Organism source	In-house culture
Organism age	<24 hr old neonates produced within 12 hr
Feeding	*Pseudokirchneriella subcapitata* and dYCT
Test chamber	20 mL glass test tube
Test volume	15 mL
Test temperature	25±1°C
Control water	Moderately hard synthetic water
Number of organisms/replicate	1
Number of replicates	10
Photoperiod	16 hours light/8 hours dark
Aeration	None
Test protocol	Environmental Canada (2007a); EPS 1/RM/21
Test acceptability criterion for controls	≥80% survival; ≥15 young per surviving control

Table 4. Summary of test conditions: 14-d *Hyalella azteca* toxicity test.

Test organism	*Hyalella azteca*
Test organism source	Aquatic BioSystems, Fort Collins, CO
Test organism age	6 - 8 d old
Test type	Static-renewal (three times per week)
Test duration	14 days
Test vessel	375-mL glass jars
Test Treatment	100 mL control sediment; 175 mL overlying water
Test replicates	3 replicates per treatment
No. of organisms	10 per replicate
Test temperature	23 ± 1°C
Feeding	1.5 mL of YCT per replicate daily
Photoperiod	16 hours light/8 hours dark
Aeration	Gentle aeration throughout test
Test protocol	Environment Canada (1997a), EPS 1/RM/33
Test endpoints	Survival and dry weight
Test acceptability criterion for controls	Mean control survival of ≥80% and ≥0.1 mg/amphipod dry weight
Reference Toxicant	NaCl

Table 5. Summary of test conditions: 10-d *Chironomus dilutus* toxicity test.

Test organism	*Chironomus dilutus*
Test organism source	Aquatic BioSystems, Fort Collins, CO
Test organism age	3rd Instar
Test type	Static renewal (three times per week)
Test duration	10 days
Test vessel	375-mL glass jars
Test Treatment	100 mL sediment; 175 mL overlying water
Test replicates	3 replicates per treatment
No. of organisms	10 per replicate
Test temperature	23 ± 1°C
Feeding	6.0 mg Tetramin in 1.5 mL suspension per replicate daily
Photoperiod	16 hours light/8 hours dark
Aeration	Gentle aeration throughout test
Test protocol	Environment Canada (1997b), EPS 1/RM/32
Test endpoint	Survival and dry weight
Test acceptability criteria for controls	Mean control survival of ≥70%; and ≥0.6 mg dry weight
Reference toxicant	KCl

Table 6. Summary of test conditions: *Pseudokirchneriella subcapitata* growth inhibition test.

Test organism	*Pseudokirchneriella subcapitata*, strain UTCC #37
Origin of Strain	Canadian Phycological Culture Center, University of Waterloo
Test organism source	In-house culture
Test organism age	4- to 7-day old culture in logarithmic growth phase
Test type	Static
Test duration	72 hours
Test chamber	Microplate
Test solution volume	220 µL
Number of replicates	Four for treatments; eight for control
Control water	Deionized water with added nutrients
Test solution renewal	None
Test temperature	24 ± 2°C
Number of organisms/chamber	10,000 cells/mL
Light intensity	3600 to 4400 lux
Photoperiod	Continuous
Aeration	None
Test protocol	Environment Canada (2007b), EPS 1/RM/25
Test endpoint	Algal cell growth inhibition
Test acceptability criteria for controls	≥ 16-fold increase in number of algal cells the control; control must not exhibit a positive or negative trend with Mann-Kendall test; and the coefficient of variation of the control replicates must not exceed 20%.
Reference toxicant	Zinc

3.0 RESULTS

All of the tests met acceptance criteria specified in the test methods. Measured concentrations of nitrate are summarized in Appendix A; measured concentrations were in good agreement with target concentrations of nitrate. The average of the measured concentrations from each test were within 10% of nominal values, with the exception of the soft water test using *Ceriodaphnia dubia*, which had an average measured concentration of nitrate that was an average of 13% higher than nominal. The average of all measurements conducted were 2% (± 9%) higher than nominal and, consequently, nominal data were considered to be appropriate for use in statistical analyses of the data.

Results of acute toxicity tests using rainbow trout and *Hyalella azteca* are provided in Table 7. Chronic toxicity test results for fathead minnows, *Ceriodaphnia dubia, Hyalella azteca* and *Chironomus dilutus* are provided in Table 8. Results of a growth inhibition test using *Pseudokirchneriella subcapitata* are provided in Table 9. Bench-sheets from these tests, as well as printouts of statistical analyses are provided in the Appendices to this report.

Results of reference toxicant (positive control) tests are provided in Table 10. In each case, the reference toxicant test result fell within the range of historical data from the laboratory (mean ± 2 SD), indicating that the sensitivity of the test organisms was appropriate.

Table 7. Results of acute toxicity tests.

Species	Hardness	Endpoint	Value (mg/L NO3-N)	NOEC	LOEC
Oncorhynchus mykiss	11	96 hr LC50	691 (512 – 928)	625	1250
	54	96 hr LC50	1436 (1174 – 1755)	1250	2500
	90	96 hr LC50	1768 (1420 – 2201)	1250	2500
	164	96 hr LC50	1768 (1420 – 2201)	1250	2500
Hyalella azteca	44	96 hr LC50	168 (143 – 197)	76	169
	100	96 hr LC50	485 (435 – 540)	335	736
	164	96 hr LC50	921 (808 – 1049)	783	1650

Table 8. Results of chronic toxicity tests using fathead minnows, *Ceriodaphnia dubia, Hyalella azteca* and *Chironomus dilutus*.

Species	Hardness	Endpoint	mg/L NO_3-N	NOEC	LOEC
Pimephales promelas	12	7-d LC50	113 (96-130)	50	100
	50	7-d LC50	229 (194 – 270)	100	200
	94	7-d LC50	400 (344 – 465)	200	400
	168	7-d LC50	454 (390 – 530)	200	400
	12	7-d IC25	66 (43 – 83)	50	100
	50	7-d IC25	205 (NC – 243)	200	400
	94	7-d IC25	340 (154 – 543)	200	400
	168	7-d IC25	393 (224 – 455)	400	800
Ceriodaphnia dubia	44	7-d LC50	44.2 (30.4 – 63.8)	40	80
	98	7-d LC50	118 (108 – 128)	80	160
	166	7-d LC50	121 (95.2 – 153)	80	160
	44	7-d IC25	11.3 (3.3 – 21.2)	10	20
	98	7-d IC25	23.9 (9.8 – 31.2)	20	40
	166	7-d IC25	43.4 (27.4 – 52.7)	40	80
Hyalella azteca	46	14-d LC50	126 (108 – 147)	80	160
	86	14-d LC50	287 (252 – 326)	160	320
	172	14-d LC50	>640	640	>640
	46	14-d IC25	12.9 (NC – 58.4)	10	20
	86	14-d IC25	117 (44 – 190)	80	160
	172	14-d IC25	182 (62 – 258)	160	320
Chironomus dilutus	46	10-d LC50	114 (97 – 135)	40	80
	86	10-d LC50	220 (190 – 255)	160	320
	172	10-d LC50	337 (297 – 382)	160	320
	46	10-d IC25	49 (36 – 74)	40	80
	86	10-d IC25	101 (88 – 115)	80	160
	172	10-d IC25	174 (156 – 188)	160	320

Table 9. Results of a chronic toxicity test using *Pseudokirchneriella subcapitata*.

Species	Hardness	Endpoint	Value (mg/L NO3-N)	NOEC	LOEC
Pseudokirchneriella subcapitata	~10	72 hr IC25	691 (512 – 928)	625	1250

Table 10. Reference toxicant test results.

Species	Date	Toxicant	Point estimate	Acceptable Range	CV
Oncorhynchus mykiss	23/8/2010	SDS	5.3 mg/L	4.4 – 6.1 mg/L	8
Hyalella azteca	24/3/2010	NaCl	3.7 mg/L	2.4 – 6.8 mg/L	29
Hyalella azteca	30/12/2010	NaCl	4.6 g/L	3.0 – 6.7 g/L	22
Chironomus dilutus	7/1/2011	KCl	5.2 g/L	4.6 – 9.9 g/L	21
Ceriodaphnia dubia	28/9/2010	NaCl	1.24 g/L	0.9 – 1.5 g/L	14
Ceriodaphnia dubia	22/2/2011	NaCl	1.20 g/L	0.9 – 1.4 g/L	11
Pimephales promelas	14/9/2010	NaCl	3.2 g/L	3.0 – 5.7 g/L	17
Pimephales promelas	25/2/2011	NaCl	4.2 g/L	3.1 – 5.7 g/L	17
Pseudokirchneriella subcapitata	14/1/2011	Zn	42.7 µg/L	11.9 – 46.6 µg/L	41

4.0 DISCUSSION

The results presented here show a clear relationship between hardness and toxicity for all of the species tested across a range of hardnesses; Figure 1 shows mortality data (LC50 results) for each of the species that were tested. The trend-lines that are shown reflect an exponential (power) relationship, which is equivalent to a linear relationship of log-transformed hardness and LC50 data. Similarly, Figure 2 shows exponential relationships between hardness and toxicity for chronic endpoints (IC25 values). Interestingly, the slopes of the relationships are largely similar between species.

Results of chronic tests presented in Tables 8 and 9 show both IC25, as well as NOEC and LOEC values. The IC25 values from these tests are the most appropriate value to be considered as toxicological thresholds from these tests, since these typically reflect a more sensitive estimate of toxicity than the MATC (i.e., the geometric mean of the NOEC and LOEC). The IC10 values are not considered reliable estimates of a toxicological threshold in these tests since, in almost all cases, the IC10 falls below the NOEC from the test. Consequently, there is very little confidence in the ability to accurately detect a 10% level of effect in these tests.

Figure 1. Relationship between hardness and toxicity (LC50 values) of nitrate.

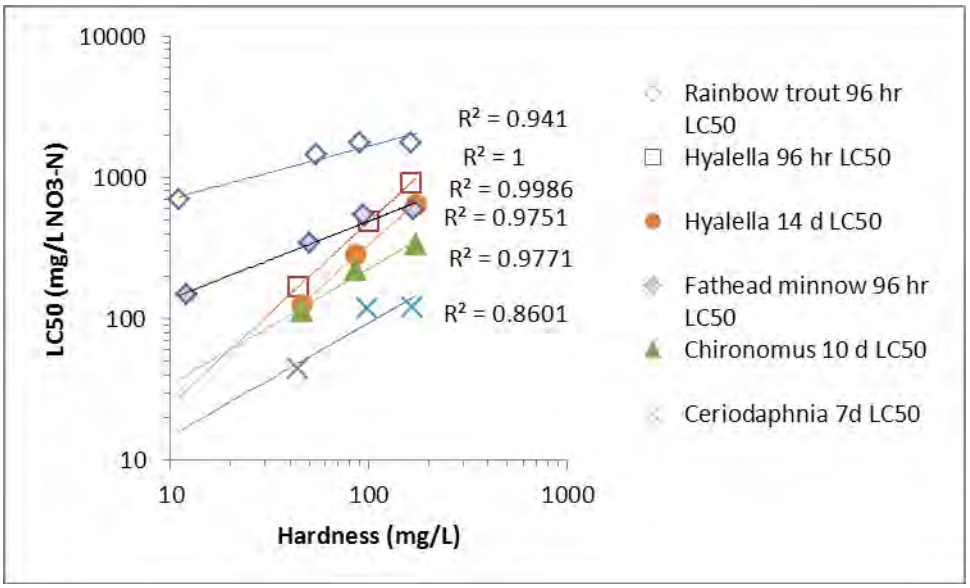
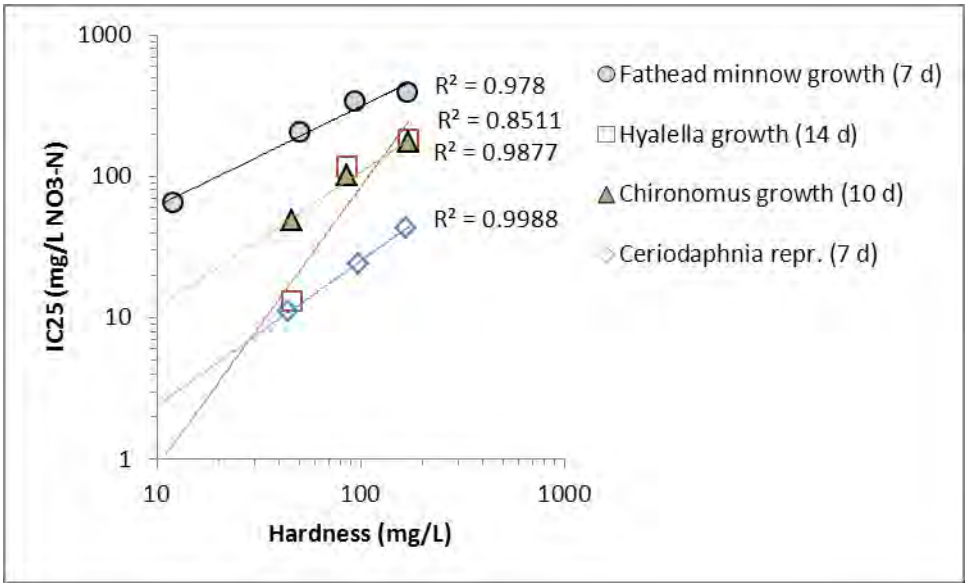


Figure 2. Relationship between hardness and chronic toxicity (IC25 values) of nitrate.



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APPENDIX A – Summary of measured nitrate concentrations

Species	Hardnes	Time	Nominal	Measured	Percentage of nominal	Mean
Rainbow trout	Very soft	Initiation	0	0.126		102
		Initiation	312	306	98	
		Initiation	625	636	102	
		Initiation	1250	1310	105	
		Initiation	2500	2410	96	
		Initiation	5000	5220	104	
		Termination	312	336	108	
		Termination	625	650	104	
Rainbow trout	Soft	Initiation	0	0.127		103
		Initiation	312	311	100	
		Initiation	625	628	100	
		Initiation	1250	1310	105	
		Initiation	2500	2380	95	
		Initiation	5000	5840	117	
Rainbow trout	Moderately hard	Initiation	0	0.0609		110
		Initiation	312	322	103	
		Initiation	625	682	109	
		Initiation	1250	1360	109	
		Initiation	2500	2820	113	
		Initiation	5000	5730	115	
Rainbow trout	Hard	Initiation	0	0.0924		104
		Initiation	312	321	103	
		Initiation	625	646	103	
		Initiation	1250	1340	107	
		Initiation	2500	2730	109	
		Initiation	5000	4920	98	

P. subcapitata		Initiation	25	27.8	111	104
		Initiation	50	53.9	108	
		Initiation	100	103	103	
		Initiation	200	206	103	
		Initiation	400	406	102	
		Initiation	800	821	103	
		Initiation	1600	1570	98	

Species	Hardnes	Time	Nominal	Measured	Percentage of nominal	Mean
Fathead Minnows	Very soft	Initiation	0	0.06		104
		Initiation	50	55.2	110	
		Initiation	100	99.2	99	
		Initiation	200	194	97	
		Initiation	400	390	98	
		Initiation	800	847	106	
		Initiation	1600	1790	112	
		Termination	0	0.121		
		Termination	50	52	104	
		Termination	100	105	105	
		Termination	200	211	106	
Fathead Minnows	Soft	Initiation	0	0.0557		104
		Initiation	50	52	104	
		Initiation	100	98.1	98	
		Initiation	200	194	97	
		Initiation	400	402	101	
		Initiation	800	819	102	
		Initiation	1600	1770	111	
		Termination	0	0.109		
		Termination	50	54.6	109	
		Termination	100	106	106	
		Termination	200	213	107	
		Termination	400	424	106	
Fathead Minnows	Moderately hard	Initiation	0	0.0654		105
		Initiation	50	52.2	104	
		Initiation	100	99.6	100	
		Initiation	200	196	98	
		Initiation	400	400	100	
		Initiation	800	806	101	
		Initiation	1600	1650	103	
		Termination	0	0.162		
		Termination	50	54.3	109	
		Termination	100	108	108	
		Termination	200	225	113	
		Termination	400	443	111	
Fathead Minnows	Hard	Initiation	0	0.097		102
		Initiation	50	51.4	103	
		Initiation	100	102	102	
		Initiation	200	203	102	
		Initiation	400	406	102	
		Initiation	800	811	101	
		Initiation	1600	1600	100	
		Termination	400	413	103	
		Termination	800	828	104	

Species	Hardnes	Time	Nominal	Measured	Percentage of nominal	Mean
Ceriodaphnia	Soft	Initiation	0	0.02		113
		Initiation	10	9.42	94	
		Initiation	20	18.5	93	
		Initiation	40	38.3	96	
		Initiation	80	85.3	107	
		Initiation	160	167	104	
		Initiation	320	318	99	
		Initiation	640	649	101	
		Termination	10	15.3	153	
		Termination	20	28.1	141	
		Termination	40	57.6	144	
Ceriodaphnia	Moderately hard	Initiation	0	<DL		99
		Initiation	5	4.94	99	
		Initiation	10	10.2	102	
		Initiation	20	20.5	103	
		Initiation	40	41.3	103	
		Initiation	80	82.9	104	
		Initiation	160	165	103	
		Initiation	320	303	95	
		Termination	20	18.6	93	
		Termination	40	37.7	94	
		Termination	80	77.9	97	
Ceriodaphnia	Hard	Initiation	0	<DL		106
		Initiation	10	9.86	99	
		Initiation	20	19.8	99	
		Initiation	40	39.7	99	
		Initiation	80	81.3	102	
		Initiation	160	164	103	
		Initiation	320	327	102	
		Initiation	640	663	104	
		Termination	20	23.4	117	
		Termination	40	47.8	120	
		Termination	80	94	118	

Species	Hardnes	Time	Nominal	Measured	Percentage of nominal	Mean
Hyalella	Soft	Initiation	0	0.902		97
		Initiation	10	9.44	94	
		Initiation	20	18.4	92	
		Initiation	40	37.8	95	
		Initiation	80	74.8	94	
		Initiation	160	158	99	
		Initiation	320	326	102	
		Termination	0	0.386		
		Termination	10	9.25	93	
		Termination	20	19.7	99	
		Termination	40	40	100	
		Termination	80	79.4	99	
		Termination	160	159	99	
		Termination	320	321	100	
Hyalella	Moderately hard	Initiation	0	0.0944		94
		Initiation	20	15.4	77	
		Initiation	40	33	83	
		Initiation	80	70.9	89	
		Initiation	160	153	96	
		Initiation	320	279	87	
		Initiation	640	564	88	
		Termination	0	0.396		
		Termination	20	20.2	101	
		Termination	40	40.7	102	
		Termination	80	81.5	102	
		Termination	160	161	101	
		Termination	320	332	104	
		Termination	640	629	98	
Hyalella	Hard	Initiation	0	0.093		95
		Initiation	20	16.6	83	
		Initiation	40	34.2	86	
		Initiation	80	71.5	89	
		Initiation	160	147	92	
		Initiation	320	311	97	
		Initiation	640	625	98	
		Termination	0	0.908		
		Termination	20	20.4	102	
		Termination	40	40.6	102	
		Termination	80	80.5	101	
		Termination	160	160	100	
		Termination	320	321	100	
		Termination	640	620	97	

Species	Hardnes	Time	Nominal	Measured	Percentag	Mean
Chironomus	Soft	Initiation	0	0.0858		99
		Initiation	10	10.6	106	
		Initiation	20	21.2	106	
		Initiation	40	41.8	105	
		Initiation	80	84.1	105	
		Initiation	160	166	104	
		Initiation	320	326	102	
		Termination	0	0.209		
		Termination	10	8.72	87	
		Termination	20	18.1	91	
		Termination	40	37.6	94	
		Termination	80	76.2	95	
		Termination	160	155	97	
		Termination	320	307	96	
Chironomus	Moderatly hard	Initiation	0	0.086		100
		Initiation	20	20.7	104	
		Initiation	40	41.8	105	
		Initiation	80	84.2	105	
		Initiation	160	166	104	
		Initiation	320	329	103	
		Initiation	640	660	103	
		Termination	0	0.287		
		Termination	20	17.5	88	
		Termination	40	37.6	94	
		Termination	80	78.7	98	
		Termination	160	159	99	
		Termination	320	311	97	
		Termination	640	633	99	
Chironomus	Hard	Initiation	0	0.079		100
		Initiation	20	21.2	106	
		Initiation	40	41.7	104	
		Initiation	80	83.5	104	
		Initiation	160	166	104	
		Initiation	320	327	102	
		Initiation	640	654	102	
		Termination	0	0.319		
		Termination	20	16.9	85	
		Termination	40	37.8	95	
		Termination	80	79.4	99	
		Termination	160	161	101	
		Termination	320	321	100	
		Termination	640	640	100	

APPENDIX B – Acute toxicity tests

Rainbow Trout Summary Sheet

Client: BCMA

Start Date/Time: Sept 14/10 @ 1545h

Work Order No.: N/A

Test Species: *Oncorhynchus mykiss*

Sample Information:

Sample ID: Dechlor Nitrate
Sample Date: —
Date Received: —
Sample Volume: —
Other: —

Dilution Water:

Type: Dechlorinated Municipal Tap Water
Hardness (mg/L $CaCO_3$): ~~10~~ 11
Alkalinity (mg/L $CaCO_3$): ~~8~~ 12

Test Organism Information:

Batch No.: 061610
Source: Trout Lake Lodge
No. Fish/Volume (L): 10/10L
Loading Density: 0.36
Mean Length ± SD (mm): 36 ± 2 Range: 32-40
Mean Weight ± SD (g): 0.36 ± 0.07 Range: 0.25-0.46

SDS Reference Toxicant Results:

Reference Toxicant ID: RT62
Stock Solution ID: 10508
Date Initiated: Aug 23/10
96-h LC50 (95% CL): 5.3 (4.3-6.6) mg/L SDS

Reference Toxicant Mean (2SD Range): 5.2 (4.4-6.1) mg/L SDS
Reference Toxicant CV (%): 8.5

Test Results: The 96-hr LC50 is estimated at 691 mg/L NO_3-N with 95% CL of 512 and 928.

Reviewed by: A. Tong

Date reviewed: January 18, 2011

96-Hour Rainbow Trout Toxicity Test Data Sheet

Client/Project#: In-house
Sample I.D. Dechlor – Nitrate
W.O. # —
RBT Batch #: 061610
Date Collected/Time: —
Date Setup/Time: Sept 14 /10 @ 1545h
Sample Setup By: JAB

D.O. meter: DO-1
pH meter: pH-1
Cond. Meter: C-1

Number Fish/Volume: 10/10L
7-d % Mortality: 0 %
Total Pre-aeration Time (mins): —
Aeration rate adjusted to 6.5 ± 1 mL/min/L? (Y/N): Y

Undiluted Sample WQ			
Parameters	Initial WQ	Adjustment	30 min WQ
Temp °C			
pH			
D.O. (mg/L)			
~~Cond. (µS/cm)~~			

Concentration mg NO_3-N/L	# Survivors							Temperature (°C)					Dissolved Oxygen (mg/L)					pH					Conductivity (µS/cm)	
	1	2	4	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	96
Control				10	10	10	10	14.5	14.0	14.5	14.5	14.5	9.8	9.7	9.6	9.8	9.4	7.1	7.2	6.9	7.0	7.1	34	8?
JAB ~~625~~ 312				10	9	9	9	14.5	14.0	14.5	14.5	14.5	9.7	9.6	9.9	9.7	9.6	7.1	7.1	6.9	6.9	7.0	7520	2530
JAB ~~1250~~ 625				10	8	8	8	14.5	14.0	14.5	14.5	14.5	9.9	9.9	10.1	10.0	9.8	7.0	7.0	6.9	6.9	7.0	4770	5360
1,250				7②	2	0	—	14.5	14.0	14.5	—	—	10.0	9.9	10.2	—	—	7.0	6.9	6.9	—	—	9220	—
2,500				0	—	—	—	14.5	14.0	—	—	—	9.8	9.8	—	—	—	6.9	6.9	—	—	—	17730	—
5,000	①			0	—	—	—	14.5	14.0	—	—	—	9.8	10.0	—	—	—	6.8	6.8	—	—	—	32200	—
Initials				JAB	JAB	JAB	~	JAB	JLT	JAB	JAB	~	JAB	JLT	JAB	JAB	~	~~JAB~~ JLT	JLT	JAB	JAB	~	JLT	—

Sample Description/Comments: N/A

Fish Description at 96? all remaining fish ok

Other Observations: ① Erratic swimming in 5,000 upon initiation. ② Quiescent, erratic swimming

Reviewed by: A. Teng

Date Reviewed: January 18, 2011

Fish 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	05-7508-4878	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	20 Sep-10 10:53	**Analysis:**	Linear Regression (MLE)	**Official Results:**	Yes
Batch ID:	20-9261-7369	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/13	**Diluent:**	Dechlorinated Tap Water
Ending Date:	18 Sep-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	96h	**Source:**		**Age:**	
Sample ID:	21-3119-2997	**Code:**	RBT-NO3	**Client:**	BCMA
Sample Date:	20 Sep-10 10:50	**Material:**	NO3	**Project:**	
Receive Date:	20 Sep-10 10:50	**Source:**	NO3 Acute (NO3 ACUTE)		
Sample Age:	N/A	**Station:**			

Linear Regression Options

Model Function	Threshold Option	Threshold	Optimized	Pooled	Het Corr	Weighted
Log-Normal [NED=A+B*log(X)]	Control Threshold	0	Yes	No	No	Yes

Regression Summary

Iters	LL	AICc	Mu	Sigma	G Stat	Chi-Sq	Critical	P-Value	Decision(5%)
9	-10.602	31.204	-1.9284	0.18223	0.29479	4.4044	7.8147	0.2210	Non-Significant Heterogeneity

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC5	346.58	140.48	478
EC10	403.66	192.62	537.16
EC15	447.38	237.18	584
EC20	485.49	278.65	626.78
EC25	520.76	318.64	668.73
EC40	621.42	435.43	807.78
EC50	691.12	512.48	927.84

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(5%)
Slope	5.4874	1.5201	2.508	8.4668	3.6099	0.0365	Significant Parameter
Intercept	-10.582	4.3306	-19.07	-2.0939	-2.4435	0.0922	Non-Significant Parameter

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Distribution	Shapiro-Wilk Normality	0.94563		0.7060	Normal Distribution

96h Survival Rate Summary

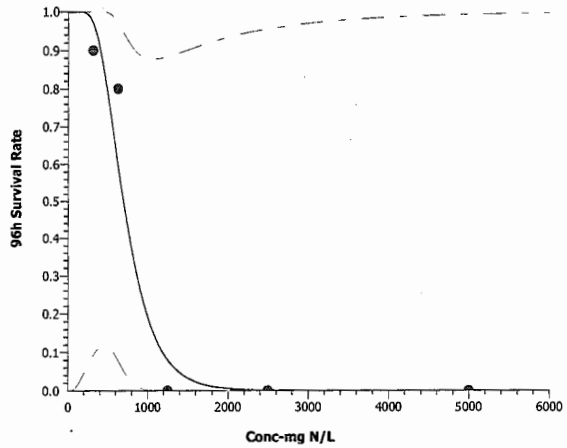
			Calculated Variate(A/B)								
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	1	1	1	1	0	0	0.0%	0.0%	10	10
312		1	0.9	0.9	0.9	0	0	0.0%	10.0%	9	10
625		1	0.8	0.8	0.8	0	0	0.0%	20.0%	8	10
1250		1	0	0	0	0	0		100.0%	0	10
2500		1	0	0	0	0	0		100.0%	0	10
5000		1	0	0	0	0	0		100.0%	0	10

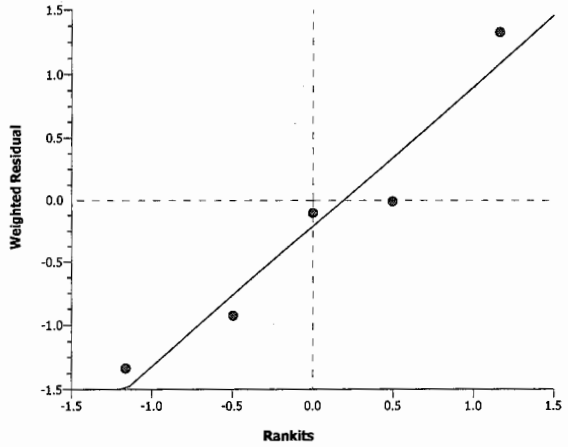
96h Survival Rate Detail

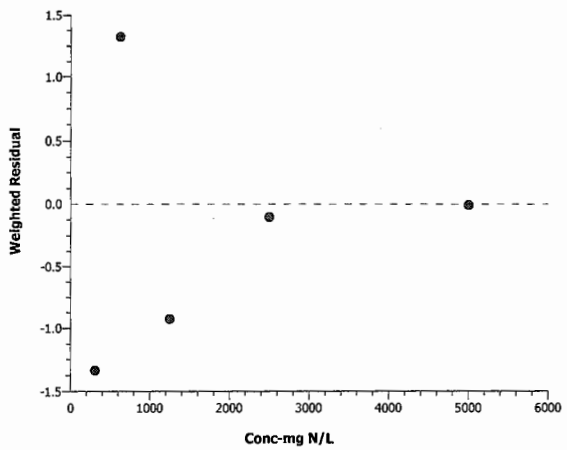
Conc-mg N/	Control Type	Rep 1
0	Negative Control	1
312		0.9
625		0.8
1250		0
2500		0
5000		0

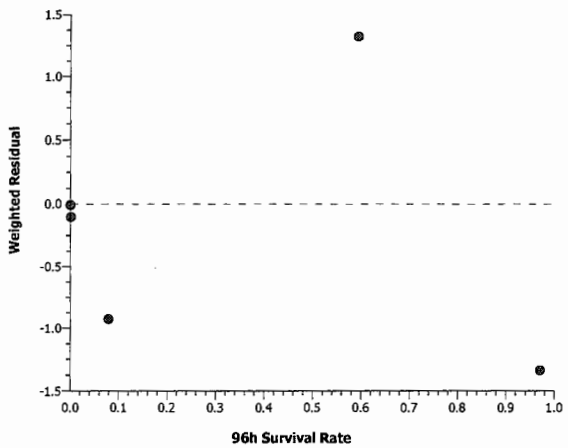
Analysis ID:	05-7508-4878	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	20 Sep-10 10:53	**Analysis:**	Linear Regression (MLE)	**Official Results:**	Yes

Graphics









CETIS Analytical Report

Fish 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	12-1580-2880	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	20 Sep-10 11:01	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	20-9261-7369	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/13	**Diluent:**	Dechlorinated Tap Water
Ending Date:	18 Sep-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	96h	**Source:**		**Age:**	
Sample ID:	21-3119-2997	**Code:**	RBT-NO3	**Client:**	BCMA
Sample Date:	20 Sep-10 10:50	**Material:**	NO3	**Project:**	
Receive Date:	20 Sep-10 10:50	**Source:**	NO3 Acute (NO3 ACUTE)		
Sample Age:	N/A	**Station:**			

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	10.00%	2.8923	0.050552	780.3	618.24	984.84

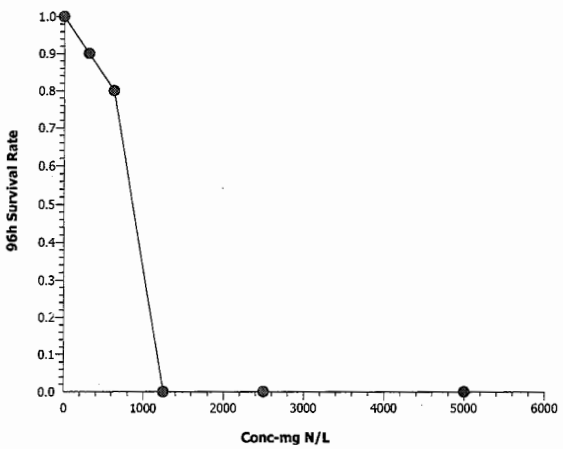
96h Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**Diff%**	**A**	**B**
0	Negative Control	1	1	1	1	0	0	0.0%	0.0%	10	10
312		1	0.9	0.9	0.9	0	0	0.0%	10.0%	9	10
625		1	0.8	0.8	0.8	0	0	0.0%	20.0%	8	10
1250		1	0	0	0	0	0		100.0%	0	10
2500		1	0	0	0	0	0		100.0%	0	10
5000		1	0	0	0	0	0		100.0%	0	10

96h Survival Rate Detail

Conc-mg N/	Control Type	Rep 1
0	Negative Control	1
312		0.9
625		0.8
1250		0
2500		0
5000		0

Graphics



CETIS Analytical Report

Fish 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	00-6754-5128	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:50	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	20-9261-7369	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/13	**Diluent:**	Dechlorinated Tap Water
Ending Date:	18 Sep-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	96h	**Source:**		**Age:**	
Sample ID:	21-3119-2997	**Code:**	RBT-NO3	**Client:**	BCMA
Sample Date:	20 Sep-10 10:50	**Material:**	NO3	**Project:**	
Receive Date:	20 Sep-10 10:50	**Source:**	NO3 Acute (NO3 ACUTE)		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	625	1250	883.9	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		312	0.5	0.5000	Non-Significant Effect
		625	0.2368	0.4737	Non-Significant Effect
		1250	5.41E-06	<0.0001	Significant Effect
		2500	5.41E-06	<0.0001	Significant Effect
		5000	5.41E-06	<0.0001	Significant Effect

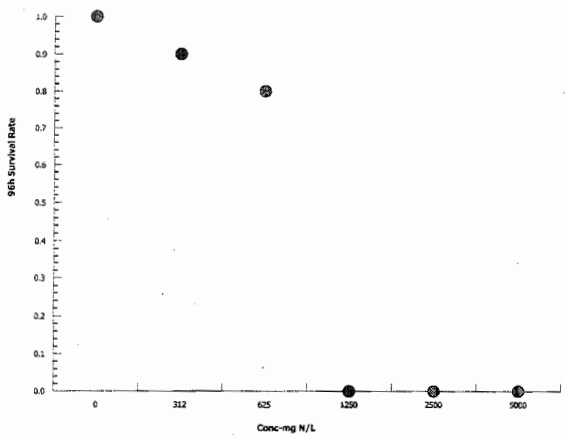
Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
312		9	1	10
625		8	2	10
1250		0	10	10
2500		0	10	10
5000		0	10	10

96h Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1
0	Negative Control	1
312		0.9
625		0.8
1250		0
2500		0
5000		0

Graphics



Rainbow Trout Summary Sheet

Client: BCMA

Start Date/Time: Sept 14/10 @ 1545h

Work Order No.: N/A

Test Species: *Oncorhynchus mykiss*

Sample Information:

Sample ID: Soft Water - Nitrate
Sample Date: —
Date Received: —
Sample Volume: —
Other: —

Dilution Water:

Type: Dechlorinated Municipal Tap Water
Hardness (mg/L $CaCO_3$): JAB ~~10~~ 54
Alkalinity (mg/L $CaCO_3$): JAB ~~8~~ 38

Test Organism Information:

Batch No.: 061610
Source: Trout Lake Lodge
No. Fish/Volume (L): 10/10L
Loading Density: 0.39
Mean Length ± SD (mm): 37 ± 3 Range: 34-41
Mean Weight ± SD (g): 0.39 ± 0.07 Range: 0.28-0.51

SDS Reference Toxicant Results:

Reference Toxicant ID: RT62
Stock Solution ID: 10508
Date Initiated: Aug 23/10
96-h LC50 (95% CL): 5.3 (4.3-6.6) mg/L SDS

Reference Toxicant Mean (2SD Range): 5.2 (4.4-6.1) mg/L SDS
Reference Toxicant CV (%): 8.5

Test Results: The 96-hr LC50 is estimated at 1436 mg/L NO_3-N with 95% CL of 1174 and 1755.

Reviewed by: A. Teng

Date reviewed: January 18, 2011

96-Hour Rainbow Trout Toxicity Test Data Sheet

Client/Project#: In-house
Sample I.D. Soft Water - Nitrate
W.O. # —
RBT Batch #: 061610
Date Collected/Time: —
Date Setup/Time: Sept 14/10 @ 1545h
Sample Setup By: JAB

D.O. meter: DO-1
pH meter: pH-1
Cond. Meter: C-1

Number Fish/Volume: 10/10L
7-d % Mortality: 0 %
Total Pre-aeration Time (mins): —
Aeration rate adjusted to 6.5 ± 1 mL/min/L? (Y/N): Y

Undiluted Sample WQ			
Parameters	Initial WQ	Adjustment	30 min WQ
Temp °C			
pH			
D.O. (mg/L)			
Cond. (µS/cm)			

Concentration mg NO_3-N/L	# Survivors							Temperature (°C)					Dissolved Oxygen (mg/L)					pH					Conductivity (µS/cm)	
	1	2	4	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	96
Control				10	10	10	10	14.5	14.5	14.5	14.5	14.5	9.9	9.7	10.0	9.8	9.6	7.3	7.4	7.5	7.5	7.2	198	204
312				10	10	10	10	14.5	14.5	14.5	14.5	14.5	9.9	10.1	10.0	10.1	9.7	7.3	7.3	7.5	7.5	7.2	2580	2590
625				10	10	10	10	14.5	14.5	14.5	14.5	14.5	10.1	9.9	10.0	10.0	9.6	7.3	7.3	7.5	7.5	7.1	4880	4890
1,250				10	8	7	7②	14.5	14.5	14.5	14.5	14.5	10.1	9.9	10.2	10.2	9.7	7.3	7.2	7.4	7.5	7.2	9450	9570
2,500				3③	0	—	—	14.5	14.5	14.5	—	—	10.1	10.0	—	—	—	7.1	7.1	—	—	—	17350	—
5,000	①			0	—	—	—	14.5	14.5	—	—	—	10.0	9.7	—	—	—	7.1	7.1	—	—	—	32000	—
Initials				JAB	JAB	JAB	~	JAB	JLT	JAB	JAB	~	JAB	JLT	JAB	JAB	~	JAB	JLT	JAB	JAB	~	JLT	~

Sample Description/Comments: NA

Fish Description at 96? all remaining fish ok

Other Observations: ① Erratic swimming in 5,000 upon initiation ② Quiescent fish, erratic swimming

Reviewed by: A. Tang

Date Reviewed: January 18, 2011

CETIS Analytical Report

Fish 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	11-1509-4639	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	20 Sep-10 10:56	**Analysis:**	Untrimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	20-9261-7369	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/13	**Diluent:**	~~Dechlorinated Tap Water~~ Soft Water JAB
Ending Date:	18 Sep-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	96h	**Source:**		**Age:**	
Sample ID:	20-5975-1414	**Code:**	7AC54FF6	**Client:**	BCMA
Sample Date:	20 Sep-10 10:54	**Material:**	NO3	**Project:**	
Receive Date:	20 Sep-10 10:54	**Source:**	NO3 Acute (NO3 ACUTE)		
Sample Age:	N/A	**Station:**			

Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	0.00%	3.1571	0.043623	1435.9	1174.5	1755.3

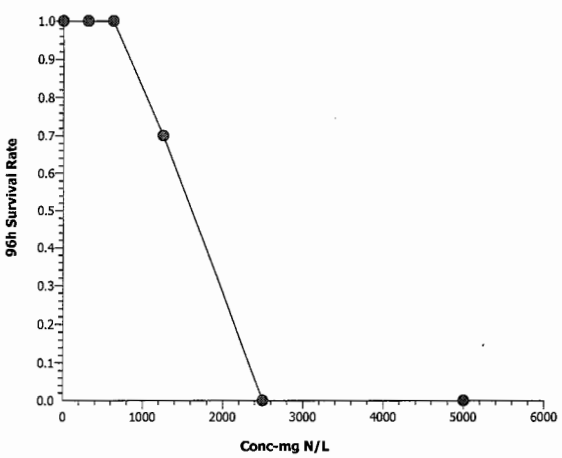
96h Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**Diff%**	**A**	**B**
0	Negative Control	1	1	1	1	0	0	0.0%	0.0%	10	10
312		1	1	1	1	0	0	0.0%	0.0%	10	10
625		1	1	1	1	0	0	0.0%	0.0%	10	10
1250		1	0.7	0.7	0.7	0	0	0.0%	30.0%	7	10
2500		1	0	0	0	0	0		100.0%	0	10
5000		1	0	0	0	0	0		100.0%	0	10

96h Survival Rate Detail

Conc-mg N/	Control Type	Rep 1
0	Negative Control	1
312		1
625		1
1250		0.7
2500		0
5000		0

Graphics



CETIS Analytical Report

Fish 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	09-5379-8370	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:50	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	20-9261-7369	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/13	**Diluent:**	~~Dechlorinated Tap Water~~ Soft Water JAB
Ending Date:	18 Sep-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	96h	**Source:**		**Age:**	
Sample ID:	20-5975-1414	**Code:**	7AC54FF6	**Client:**	BCMA
Sample Date:	20 Sep-10 10:54	**Material:**	NO3	**Project:**	
Receive Date:	20 Sep-10 10:54	**Source:**	NO3 Acute (NO3 ACUTE)		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	1250	2500	1768	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		312	1	1.0000	Non-Significant Effect
		625	1	1.0000	Non-Significant Effect
		1250	0.1053	0.3158	Non-Significant Effect
		2500	5.41E-06	<0.0001	Significant Effect
		5000	5.41E-06	<0.0001	Significant Effect

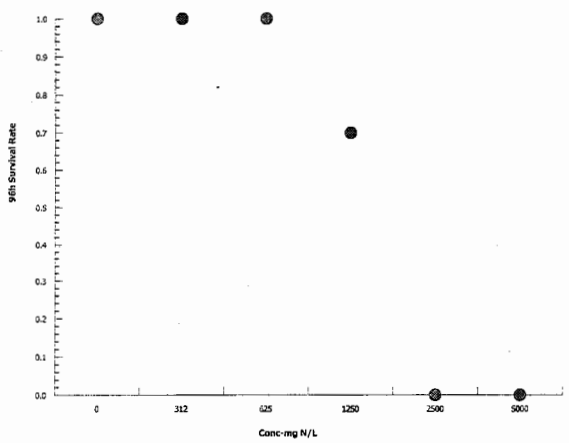
Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
312		10	0	10
625		10	0	10
1250		7	3	10
2500		0	10	10
5000		0	10	10

96h Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1
0	Negative Control	1
312		1
625		1
1250		0.7
2500		0
5000		0

Graphics



Rainbow Trout Summary Sheet

Client: BCMA

Start Date/Time: Sept 14/10 @1545h

Work Order No.: N/A

Test Species: *Oncorhynchus mykiss*

Sample Information:

Sample ID: MHW - Nitrate
Sample Date: –
Date Received: –
Sample Volume: –
Other: –

Dilution Water:

Type: Dechlorinated Municipal Tap Water
Hardness (mg/L $CaCO_3$): ~~JRB~~ X0 90
Alkalinity (mg/L $CaCO_3$): ~~JRB~~ 8 66

Test Organism Information:

Batch No.: 061610
Source: Trout Lake Lodge
No. Fish/Volume (L): 10/10L
Loading Density: 0.41
Mean Length ± SD (mm): 37±2 Range: 33-40
Mean Weight ± SD (g): 0.41 ±0.07 Range: 0.27-0.49

SDS Reference Toxicant Results:

Reference Toxicant ID: RT62
Stock Solution ID: 10508
Date Initiated: Aug 23/10
96-h LC50 (95% CL): 5.3 (4.3-6.6) mg/L SDS

Reference Toxicant Mean (2SD Range): 5.2 (4.4-6.1) mg/L SDS
Reference Toxicant CV (%): 8.5

Test Results: The 96-hr LC50 is estimated at 1768 mg/L NO_3-N with 95% CL of 1420 and 2201

Reviewed by: A. Tang Date reviewed: January 18, 2011

96-Hour Rainbow Trout Toxicity Test Data Sheet

Client/Project#: In-house
Sample I.D. Moderately Hard Water - Nitrate
W.O. # —
RBT Batch #: 061610
Date Collected/Time: —
Date Setup/Time: Sept 14/10 @ 1545h
Sample Setup By: JAB

D.O. meter: DO-1
pH meter: pH-1
Cond. Meter: C-1

Number Fish/Volume: 10/10L
7-d % Mortality: 0 %
Total Pre-aeration Time (mins): —
Aeration rate adjusted to 6.5 ± 1 mL/min/L? (Y/N): Y

Undiluted Sample WQ

Parameters	Initial WQ	Adjustment	30 min WQ
Temp °C			
pH			
D.O. (mg/L)			
Cond. (µS/cm)			

Concentration mg NO_3-N/L	# Survivors							Temperature (°C)					Dissolved Oxygen (mg/L) 24Q					pH					Conductivity (µS/cm)	
	1	2	4	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	96
Control				10	10	10	10	14.5	14.0	14.5	14.0	14.0	9.7	10.0	9.7	9.5	9.7	7.7	7.8	7.7	7.6	7.7	328	331
312				10	10	10	10	14.5	14.0	14.5	14.0	14.0	10.0	10.0	10.1	10.0	9.7	7.7	7.8	7.8	7.7	7.8	2800	2820
625				10	10	10	10	14.5	14.0	14.5	14.0	14.0	10.1	10.0	10.2	10.1	9.6	7.7	7.7	7.7	7.7	7.7	5090	5150
1250				10	10	10	10②	14.5	14.0	14.5	14.0	14.0	10.0	9.8	10.2	10.2	9.7	7.5	7.6	7.7	7.8	7.9	9460	9520
2,500				3②	0	—	—	14.5	14.0	14.5	—	—	10.1	9.8	—	—	—	7.5	7.5	—	—	—	~~15~~ 17290	—
5,000	①			0	—	—	—	14.5	14.0	14.5	—	—	10.2	10.1	—	—	—	7.5	7.5	—	—	—	32200	—
Initials				JAB	JAB	JAB	~	JAB	JLT	JAB	JAB	~	JLT	JLT	JAB	JAB	~	JAB	JLT	JAB	JAB	~	JLT	~

Sample Description/Comments: NA

Fish Description at 96? all remaining fish OK

Other Observations: ① Erratic swimming in 5,000 upon initiation ② Quiescent fish, erratic swimming

Reviewed by: A. Tang Date Reviewed: January 18, 2011

CETIS Analytical Report

Test Code: 13-8524-6788/RBT-NO3-MHW

Fish 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	04-8673-7093	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	20 Sep-10 11:00	**Analysis:**	Binomial Method	**Official Results:**	Yes
Batch ID:	20-9261-7369	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/13	**Diluent:**	~~Dechlorinated Tap Water~~ JAB Moderately Hard Water
Ending Date:	18 Sep-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	96h	**Source:**		**Age:**	
Sample ID:	17-8828-6812	**Code:**	6A97175C	**Client:**	BCMA
Sample Date:	20 Sep-10 10:59	**Material:**	NO3	**Project:**	
Receive Date:	20 Sep-10 10:59	**Source:**	NO3 Acute (NO3 ACUTE)		
Sample Age:	N/A	**Station:**			

Binomial/Graphical Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	0.00%	3.2474	0	1767.8	1419.8	2201

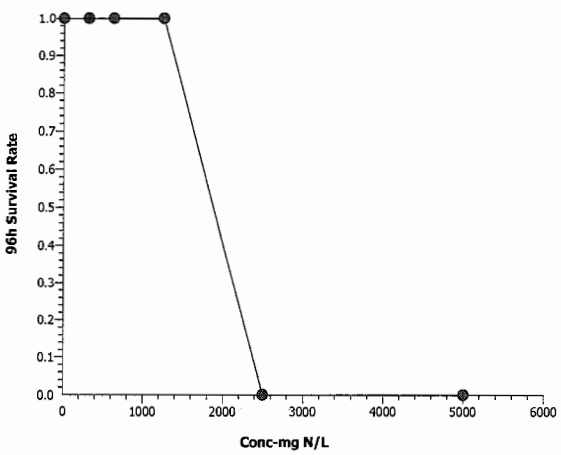
96h Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**Diff%**	**A**	**B**
0	Negative Control	1	1	1	1	0	0	0.0%	0.0%	10	10
312		1	1	1	1	0	0	0.0%	0.0%	10	10
625		1	1	1	1	0	0	0.0%	0.0%	10	10
1250		1	1	1	1	0	0	0.0%	0.0%	10	10
2500		1	0	0	0	0	0		100.0%	0	10
5000		1	0	0	0	0	0		100.0%	0	10

96h Survival Rate Detail

Conc-mg N/	Control Type	Rep 1
0	Negative Control	1
312		1
625		1
1250		1
2500		0
5000		0

Graphics



 Analyst:_____ QA: IRT Jan 18/11

CETIS Analytical Report

Fish 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	08-9554-1302	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:50	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	20-9261-7369	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/13	**Diluent:**	~~Dechlorinated Tap Water~~ JAB
Ending Date:	18 Sep-10	**Species:**	Oncorhynchus mykiss	**Brine:**	Moderately Hard Water
Duration:	96h	**Source:**		**Age:**	
Sample ID:	17-8828-6812	**Code:**	6A97175C	**Client:**	BCMA
Sample Date:	20 Sep-10 10:59	**Material:**	NO3	**Project:**	
Receive Date:	20 Sep-10 10:59	**Source:**	NO3 Acute (NO3 ACUTE)		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	1250	2500	1768	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		312	1	1.0000	Non-Significant Effect
		625	1	1.0000	Non-Significant Effect
		1250	1	1.0000	Non-Significant Effect
		2500	5.41E-06	<0.0001	Significant Effect
		5000	5.41E-06	<0.0001	Significant Effect

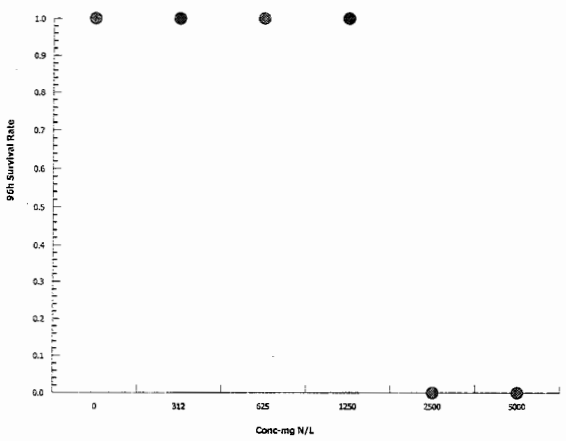
Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
312		10	0	10
625		10	0	10
1250		10	0	10
2500		0	10	10
5000		0	10	10

96h Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1
0	Negative Control	1
312		1
625		1
1250		1
2500		0
5000		0

Graphics



Rainbow Trout Summary Sheet

Client: BCMA

Start Date/Time: Sept 14/10 @ 1545

Work Order No.: N/A

Test Species: *Oncorhynchus mykiss*

Sample Information:

Sample ID: HW-Nitrate
Sample Date: —
Date Received: —
Sample Volume: —
Other: —

Dilution Water:

Type: Dechlorinated Municipal Tap Water
Hardness (mg/L $CaCO_3$): 164
Alkalinity (mg/L $CaCO_3$): 116

Test Organism Information:

Batch No.: 061610
Source: Trout Lake Lodge
No. Fish/Volume (L): 10/10L
Loading Density: 0.43
Mean Length ± SD (mm): 38±3 Range: 33-43
Mean Weight ± SD (g): 0.43 ±0.11 Range: 0.26-0.61

SDS Reference Toxicant Results:

Reference Toxicant ID: RTG2
Stock Solution ID: 10508
Date Initiated: Aug 23/10
96-h LC50 (95% CL): 5.3 (4.3-6.6 mg/L SDS)

Reference Toxicant Mean (2SD Range): 5.2 (4.4-6.1) mg/L SDS
Reference Toxicant CV (%): 8.5

Test Results: The 96-hr LC50 is estimated at 1768 mg/L NO_3-N with 95% CL at 1420 and 2201

Reviewed by: A. Tang

Date reviewed: January 18, 2011

96-Hour Rainbow Trout Toxicity Test Data Sheet

Client/Project#: In-house
Sample I.D. Hard Water - Nitrate
W.O. # —
RBT Batch #: 061610
Date Collected/Time: —
Date Setup/Time: Sept 14 /10 @ 1545 h
Sample Setup By: JAB

D.O. meter: DO-1
pH meter: pH-1
Cond. Meter: C-1

Number Fish/Volume: 10/10L
7-d % Mortality: 0 %
Total Pre-aeration Time (mins): —
Aeration rate adjusted to 6.5 ± 1 mL/min/L? (Y/N): Y

Undiluted Sample WQ

Parameters	Initial WQ	Adjustment	30 min WQ
Temp °C			
pH			
D.O. (mg/L)			
Cond. (µS/cm)			

Concentration mg NO_3-N/L	# Survivors							Temperature (°C)					Dissolved Oxygen (mg/L)					pH					Conductivity (µS/cm)	
	1	2	4	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	24	48	72	96	0	96
Control				10	10	10	10	14.5	14.0	14.5	14.0	14.0	9.8	9.3	10.2	9.9	9.4	8.0	7.9	8.1	8.0	7.9	562	576
JAB ~~6.25~~ 312				10	10	10	10	14.5	14.0	14.5	14.0	14.0	9.9	9.9	10.2	10.0	9.5	8.0	8.0	8.1	8.1	7.9	2980	3100
JAB ~~12.5~~ 625				10	10	10	10	14.5	14.0	14.5	14.0	14.0	9.9	10.1	10.2	10.2	9.6	7.9	7.9	8.0	7.9	8.0	5230	5240
1,250				10	10	10	10②	14.5	14.0	14.5	14.0	14.0	9.7	10.0	10.2	10.1	9.6	7.9	7.9	8.0	7.9	8.0	9730	9820
2,500				10②	0	—	—	14.5	14.0	14.5	—	—	9.7	10.0	—	—	—	7.8	7.8	—	—	—	17980	—
5,000 ①				0	0	—	—	14.5	14.0	14.5	—	—	9.8	9.8	—	—	—	7.7	7.7	—	—	—	32500	—
Initials				JAB	JAB	JAB	~	JAB	JLT	JAB	JAB	~	JAB	JLT	JAB	JAB	~	JAB	JLT	JAB	JAB	~	JLT	~

Sample Description/Comments:

Fish Description at 96? all remaining fish ok

Other Observations: ① Erratic swimming in 5,000 upon initiation ② Quiescent fish, erratic swimming

Reviewed by: A. Tang

Date Reviewed: January 18, 2011

CETIS Analytical Report

Test Code: 17-0373-9775/RBT-NO3-HW

Fish 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	17-2315-2303	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	20 Sep-10 11:03	**Analysis:**	Binomial Method	**Official Results:**	Yes
Batch ID:	20-9261-7369	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/13	**Diluent:**	~~Dechlorinated Tap Water~~ JAB Hard Water
Ending Date:	18 Sep-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	96h	**Source:**		**Age:**	
Sample ID:	01-8908-9691	**Code:**	B45479B	**Client:**	BCMA
Sample Date:	20 Sep-10 11:02	**Material:**	NO3	**Project:**	
Receive Date:	20 Sep-10 11:02	**Source:**	NO3 Acute (NO3 ACUTE)		
Sample Age:	N/A	**Station:**			

Binomial/Graphical Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	0.00%	3.2474	0	1767.8	1419.8	2201

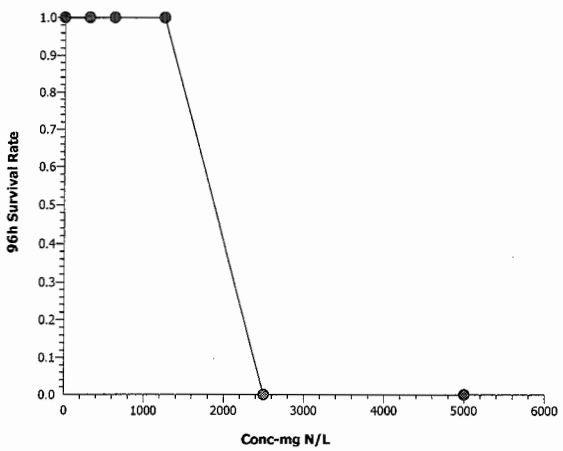
96h Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**Diff%**	**A**	**B**
0	Negative Control	1	1	1	1	0	0	0.0%	0.0%	10	10
312		1	1	1	1	0	0	0.0%	0.0%	10	10
625		1	1	1	1	0	0	0.0%	0.0%	10	10
1250		1	1	1	1	0	0	0.0%	0.0%	10	10
2500		1	0	0	0	0	0		100.0%	0	10
5000		1	0	0	0	0	0		100.0%	0	10

96h Survival Rate Detail

Conc-mg N/	Control Type	Rep 1
0	Negative Control	1
312		1
625		1
1250		1
2500		0
5000		0

Graphics



 Analyst:_____ QA: ART Jan 18/11

CETIS Analytical Report

Fish 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	04-5396-2583	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:50	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	20-9261-7369	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/13	**Diluent:**	~~Dechlorinated Tap Water~~ Hard Water JAB
Ending Date:	18 Sep-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	96h	**Source:**		**Age:**	
Sample ID:	01-8908-9691	**Code:**	B45479B	**Client:**	BCMA
Sample Date:	20 Sep-10 11:02	**Material:**	NO3	**Project:**	
Receive Date:	20 Sep-10 11:02	**Source:**	NO3 Acute (NO3 ACUTE)		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	1250	2500	1768	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		312	1	1.0000	Non-Significant Effect
		625	1	1.0000	Non-Significant Effect
		1250	1	1.0000	Non-Significant Effect
		2500	5.41E-06	<0.0001	Significant Effect
		5000	5.41E-06	<0.0001	Significant Effect

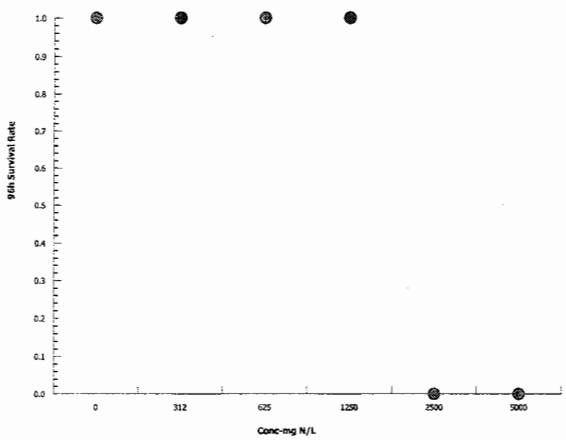
Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
312		10	0	10
625		10	0	10
1250		10	0	10
2500		0	10	10
5000		0	10	10

96h Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1
0	Negative Control	1
312		1
625		1
1250		1
2500		0
5000		0

Graphics



Client: In-house (NO_3)

W.O.#: _____

Hardness and Alkalinity Datasheet

	Alkalinity						Hardness			
Sample ID	Sample Date	Sample Volume (mL)	(mL) 0.02N HCL/H_2SO_4 used to pH 4.5	(mL) of 0.02N HCL/H_2SO_4 used to pH 4.2	Total Alkalinity ($mg/LCaCO_3$)		Sample Volume (mL)	Volume of 0.01M EDTA Used (mL)	Total Hardness ($mg/L\ CaCO_3$)	Technician
Hard Water	09/14/10	50	5.9	6.0	116	10 in 100	100	1.8	180	JAB
						50 in 100	100	8.2	164	
Moderately Hard Water	09/14/10	50	3.4	3.5	66	50 in 100	100	4.5	90	
Soft Water	09/14/10	50	2.0	2.1	38	50 in 100	100	2.7	54	
Dechlor	09/14/10	50	0.6	0.6	12	100 in 100	100	1.1	11	

Notes: _____

Reviewed by: A. Tang Date Reviewed: January 18, 2011

H. azteca Test Summary Sheet (96-hr)

Client: In-house

Start Date/Time: Mar 24/10 @ 1430h

Work Order No.: n/a

Test Species: H. azteca

Sample Information:

Sample ID: Nitrate-SW
Sample Date: —
Date Received: —
Sample Volume: —

Dilution Water:

Type: Soft Water
Hardness (mg/L $CaCO_3$): 44
Alkalinity (mg/L $CaCO_3$): 30

Test Organism Information:

Species: Hyalella azteca
Supplier: ABS (Colorado)
Date received: March 23, 2010

NaCl Reference Toxicant Results:

Reference Toxicant ID: HA30
Stock Solution ID: NaCl salt
Date Initiated: March 24, 2010

96-h LC50 (95% CL): 3.73 (3.01-4.63) g/L NaCl

96-h LC50 Reference Toxicant Mean and Range: 4.04 (2.42-6.76) g/L NaCl CV (%): 29.3

Test Results:

	Survival	Biomass
LC25 % (v/v) (95% CL)	n/a	
LC50 % (v/v) (95% CL)	168 (143-197)	
IC25 % (v/v) (95% CL)		
IC50 % (v/v) (95% CL)		

Reviewed by: _____ Date reviewed: _____

96 Hour Toxicity Test Data Sheet

Client: IN-HOUSE
Sample ID: $NaNO_3$ Lab Water-45 Hardness SW
Work Order No.: NA

Start Date & Time: March 24, 2010 1430h
End Date & Time: March 28, 2010
Test Organism: *H. azteca*

Conc. (g/L $NaNO_3$)	Rep	Survival 24	48	72	96	Temperature (°C) 0	24	48	72	96	Dissolved oxygen (mg/L) 0	24	48	72	96	pH 0	24	48	72	96	Conductivity (µS) 0	96
0	A	10	10	10	10	22.0	23.5	22.5	23.0	22.5	6.8	6.8	6.9	7.1	7.2	7.6	7.6	7.4	7.5	7.7	166	200
	B	10	10	10	10																	
	C	10	10	10	10																	
0.625	A	10	10	10	10	22.0	23.5	22.5	23.0	22.5	6.9	6.5	6.8	7.0	7.2	7.5	7.4	7.4	7.5	7.7	819	895
	B	10	10	10	10																	
	C	10	10	10	10																	
1.25	A	10	8	6	5	22.5	23.5	22.5	23.0	22.5	6.8	6.8	6.9	7.1	7.1	7.5	7.4	7.4	7.3	7.6	1547	1582
	B	#910	10	7	4																	
	C	9	9	8	4																	
2.5	A	2	0	0	—	22.5	24.0	22.5	23.0	22.5	6.8	6.7	6.9	7.1	7.2	7.4	7.3	7.3	7.3	7.6	3030	3120
	B	3	3	2	2																	
	C	4	1	0	—																	
5	A	0	—	—		22.5	24.0	22.5	—	—	6.8	6.8	6.9	—	—	7.4	7.3	7.3	—	—	6010	—
	B	0																				
	C	0																				
10	A	0	—	—	—	22.5	24.0	22.5	—	—	6.8	6.6	—	—	—	7.3	7.2	7.2	—	—	11,980	—
	B	0																				
	C	0																				
Technician Initials		SW	SW	—	—	QA	QA	QA	—	—	QA	QA	QA	—	—	QA	QA	QA	—	—	QA	—

Comments: $NaNO_3$ in Soft Water.

Reviewed by: _____ Date Reviewed: _____

CETIS Analytical Report

Test Code: 21-0533-0639/SW-N

Reference Toxicant 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	21-0332-9953	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Apr-10 17:08	**Analysis:**	Untrimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	17-8493-3517	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	24 Mar-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	Soft Synthetic Water
Ending Date:	28 Mar-10	**Species:**	Hyalella azteca	**Brine:**	
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	04-6720-7751	**Code:**	Soft Water-Nitr	**Client:**	Internal Lab
Sample Date:	24 Mar-10	**Material:**	Sodium Nitrate	**Project:**	Special Studies
Receive Date:		**Source:**	Internal		
Sample Age:	N/A	**Station:**			

Sample Note: Measured Values-as N (mg/L)

Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	0.00%	2.225	0.03471	168.1	143.2	197.2

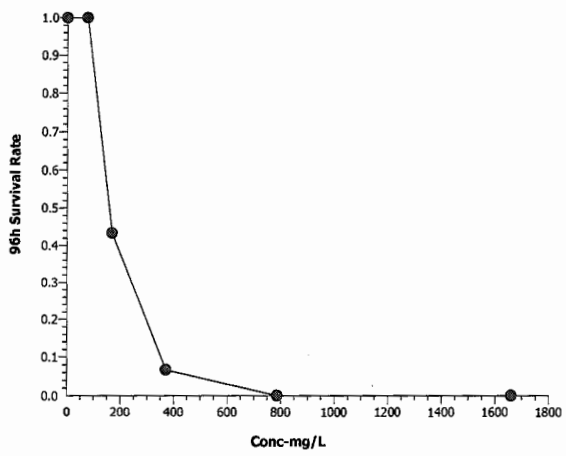
96h Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0.0942	Negative Control	3	1	1	1	0	0	0.0%	0.0%	30	30
75.8		3	1	1	1	0	0	0.0%	0.0%	30	30
169		3	0.4333	0.4	0.5	0.01054	0.05774	13.32%	56.67%	13	30
371		3	0.06667	0	0.2	0.02108	0.1155	173.2%	93.33%	2	30
787		3	0	0	0	0	0		100.0%	0	30
1660		3	0	0	0	0	0		100.0%	0	30

96h Survival Rate Detail

Conc-mg/L	Control Type	Rep 1	Rep 2	Rep 3
0.0942	Negative Control	1	1	1
75.8		1	1	1
169		0.5	0.4	0.4
371		0	0.2	0
787		0	0	0
1660		0	0	0

Graphics



Reference Toxicant 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	20-1109-8965	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Mar-11 10:18	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	17-8493-3517	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	24 Mar-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	Soft Synthetic Water
Ending Date:	28 Mar-10	**Species:**	Hyalella azteca	**Brine:**	
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	04-6720-7751	**Code:**	Soft Water-Nitr	**Client:**	Internal Lab
Sample Date:	24 Mar-10	**Material:**	Sodium Nitrate	**Project:**	Special Studies
Receive Date:		**Source:**	Internal		
Sample Age:	N/A	**Station:**			

Sample Note: Measured Values-as N (mg/L)

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	75.8	169	113.2	

Fisher Exact/Bonferroni-Holm Test

Sample	vs	Sample	Test Stat	P-Value	Decision(0.05)
0.0942		75.8	1	1.0000	Non-Significant Effect
0.0942		169	3.09E-07	<0.0001	Significant Effect
0.0942		371	0	<0.0001	Significant Effect
0.0942		787	0	<0.0001	Significant Effect
0.0942		1660	0	<0.0001	Significant Effect

Data Summary

Conc-mg/L	Control Type	No-Resp	Resp	Total
0.0942	Negative Contr	30	0	30
75.8		30	0	30
169		13	17	30
371		2	28	30
787		0	30	30
1660		0	30	30

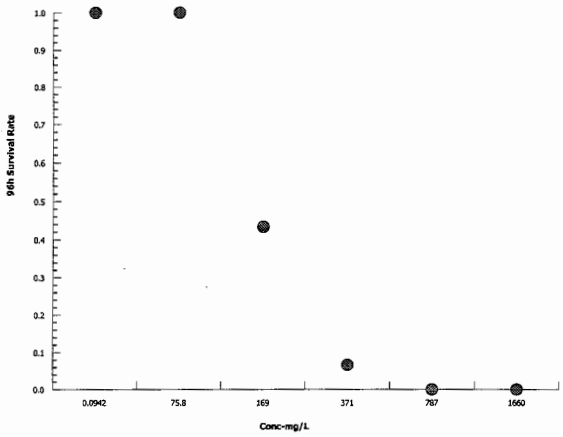
96h Survival Rate Detail

Conc-mg/L	Control Type	Rep 1	Rep 2	Rep 3
0.0942	Negative Control	1	1	1
75.8		1	1	1
169		0.5	0.4	0.4
371		0	0.2	0
787		0	0	0
1660		0	0	0

Reference Toxicant 96-h Acute Survival Test **Nautilus Environmental**

Analysis ID:	20-1109-8965	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Mar-11 10:18	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



H. azteca Test Summary Sheet (96-hr)

Client: In-house

Start Date/Time: Mar 24/10 @ 1430h

Work Order No.: n/a

Test Species: H. azteca

Sample Information:

Sample ID: Nitrate-MHW
Sample Date: —
Date Received: —
Sample Volume: —

Dilution Water:

Type: Moderately Hard Water
Hardness (mg/L $CaCO_3$): 100
Alkalinity (mg/L $CaCO_3$): 58

Test Organism Information:

Species: Hyalella azteca
Supplier: ABS (Colorado)
Date received: March 23, 2010

NaCl Reference Toxicant Results:

Reference Toxicant ID: HA30
Stock Solution ID: NaCl salt
Date Initiated: March 24, 2010

96-h LC50 (95% CL): 3.73 (3.01-4.63) g/L NaCl

96-h LC50 Reference Toxicant Mean and Range: 4.04 (2.42-6.76) g/L NaCl CV (%): 29.3

Test Results:

	Survival	Biomass
LC25 % (v/v) (95% CL)	n/a	
LC50 % (v/v) (95% CL)	485 (435-540)	
IC25 % (v/v) (95% CL)		
IC50 % (v/v) (95% CL)		

Reviewed by: _____ Date reviewed: _____

96 Hour Toxicity Test Data Sheet

Client: IN-HOUSE
Sample ID: $NaNO_3$ Lab Water-100 Hardness MHW
Work Order No.: NA

Start Date & Time: March 24, 2010 1430h
End Date & Time: March 28, 2010
Test Organism: *H. azteca*

Conc. (g/L $NaNO_3$)	Rep	Survival 24	48	72	96	Temperature (°C) 0	24	48	72	96	Dissolved oxygen (mg/L) 0	24	48	72	96	pH 0	24	48	72	96	Conductivity (µS) 0	96
0	A	10	10	10	10	22.0	23.5	24.0	23.0	23.0	7.0	6.9	6.6	7.0	7.2	7.9	7.7	7.8	7.1	7.9	348	356
	B	10	10	10	10																	
	C	10	10	10	10																	
0.625	A	10	10	10	10	22.5	24.0	24.0	23.0	23.0	6.9	6.8	6.4	7.1	7.3	7.8	7.7	7.8	7.6	7.7	989	1068
	B	10	10	10	10																	
	C	10	10	10	10																	
1.25	A	10	10	10	10	22.5	24.0	23.5	23.0	23.0	6.8	6.8	6.5	6.9	7.2	7.8	7.6	7.7	7.5	7.6	1704	1799
	B	10	10	10	10																	
	C	9	9	9	9																	
2.5	A	10	10	10	10	22.5	24.0	24.0	23.0	23.0	6.8	6.8	6.4	7.0	7.1	7.7	7.6	7.7	7.5	7.6	3170	3260
	B	10	9	9	9																	
	C	9	9	9	9																	
5	A	8	4	2	1	22.5	24.0	24.0	23.0	23.0	6.8	6.9	6.7	6.9	7.2	7.7	7.6	7.7	7.4	7.6	6140	6230
	B	8	4	2	1																	
	C	6	5	2	0																	
10	A	0	—	—	—	22.5	24.0	23.5	—	—	7.0	6.8	—	—	—	7.6	7.5	7.6	—	—	12,120	—
	B	0																				
	C	0																				
Technician Initials		QR	QR	~	~	QR	QR	QR	~	~	QR	QR	QR	~	~	QR	QR	QR	~	~	QR	~

Comments: $NaNO_3$ in moderately-hard water.

Reviewed by: _____ Date Reviewed: _____

CETIS Analytical Report

Reference Toxicant 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	20-3516-0165	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Apr-10 17:17	**Analysis:**	Untrimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	16-9372-6597	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	24 Mar-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	28 Mar-10	**Species:**	Hyalella azteca	**Brine:**	
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	09-8197-6196	**Code:**	MHW-Nitrate	**Client:**	Internal Lab
Sample Date:	24 Mar-10	**Material:**	Sodium Nitrate	**Project:**	Special Studies
Receive Date:		**Source:**	Internal		
Sample Age:	N/A	**Station:**			

Sample Note: Measured Values-as N (mg/L)

Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	0.00%	2.686	0.02344	484.9	435.3	540.2

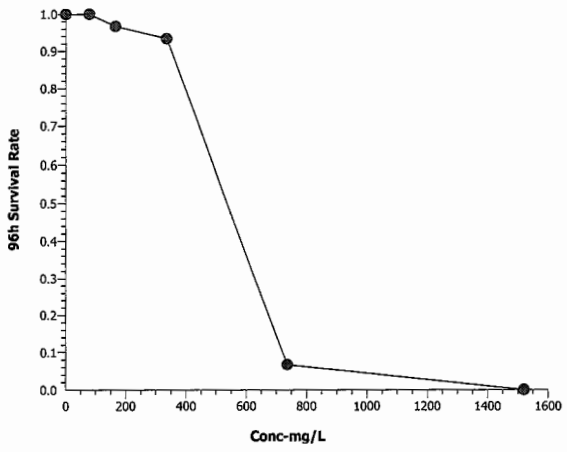
96h Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0.0927	Negative Control	3	1	1	1	0	0	0.0%	0.0%	30	30
78.3		3	1	1	1	0	0	0.0%	0.0%	30	30
165		3	0.9667	0.9	1	0.01054	0.05773	5.97%	3.33%	29	30
335		3	0.9333	0.9	1	0.01054	0.05773	6.19%	6.67%	28	30
736		3	0.06667	0	0.1	0.01054	0.05774	86.6%	93.33%	2	30
1520		3	0	0	0	0	0		100.0%	0	30

96h Survival Rate Detail

Conc-mg/L	Control Type	Rep 1	Rep 2	Rep 3
0.0927	Negative Control	1	1	1
78.3		1	1	1
165		1	1	0.9
335		1	0.9	0.9
736		0.1	0.1	0
1520		0	0	0

Graphics



Reference Toxicant 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	01-9905-9214	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Mar-11 10:18	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	16-9372-6597	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	24 Mar-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	28 Mar-10	**Species:**	Hyalella azteca	**Brine:**	
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	09-8197-6196	**Code:**	MHW-Nitrate	**Client:**	Internal Lab
Sample Date:	24 Mar-10	**Material:**	Sodium Nitrate	**Project:**	Special Studies
Receive Date:		**Source:**	Internal		
Sample Age:	N/A	**Station:**			

Sample Note: Measured Values-as N (mg/L)

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	335	736	496.5	

Fisher Exact/Bonferroni-Holm Test

Sample	vs	Sample	Test Stat	P-Value	Decision(0.05)
0.0927		78.3	1	1.0000	Non-Significant Effect
0.0927		165	0.5	1.0000	Non-Significant Effect
0.0927		335	0.2458	0.7373	Non-Significant Effect
0.0927		736	0	<0.0001	Significant Effect
0.0927		1520	0	<0.0001	Significant Effect

Data Summary

Conc-mg/L	Control Type	No-Resp	Resp	Total
0.0927	Negative Contr	30	0	30
78.3		30	0	30
165		29	1	30
335		28	2	30
736		2	28	30
1520		0	30	30

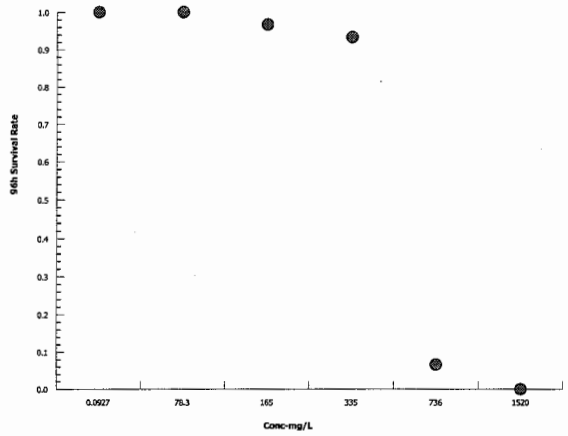
96h Survival Rate Detail

Conc-mg/L	Control Type	Rep 1	Rep 2	Rep 3
0.0927	Negative Control	1	1	1
78.3		1	1	1
165		1	1	0.9
335		1	0.9	0.9
736		0.1	0.1	0
1520		0	0	0

Reference Toxicant 96-h Acute Survival Test **Nautilus Environmental**

Analysis ID:	01-9905-9214	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Mar-11 10:18	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



H. azteca Test Summary Sheet (96-hr)

Client: In-house

Start Date/Time: Mar 24/10 @ 1430h

Work Order No.: n/a

Test Species: H. azteca

Sample Information:

Sample ID: Nitrate-HW
Sample Date: —
Date Received: —
Sample Volume: —

Dilution Water:

Type: Hard Water
Hardness (mg/L $CaCO_3$): 164
Alkalinity (mg/L $CaCO_3$): 90

Test Organism Information:

Species: Hyalella azteca
Supplier: ABS (Colorado)
Date received: March 23, 2010

NaCl Reference Toxicant Results:

Reference Toxicant ID: HA30
Stock Solution ID: NaCl salt
Date Initiated: March 24, 2010

96-h LC50 (95% CL): 3.73 (3.01-4.63) g/L NaCl

96-h LC50 Reference Toxicant Mean and Range: 4.04 (2.42-6.76) g/L NaCl CV (%): 29.3

Test Results:

	Survival	Biomass
LC25 % (v/v) (95% CL)	n/a	
LC50 % (v/v) (95% CL)	921 (808-1049)	
IC25 % (v/v) (95% CL)		
IC50 % (v/v) (95% CL)		

Reviewed by: _____ Date reviewed: _____

96 Hour Toxicity Test Data Sheet

Client: IN-HOUSE
Sample ID: $NaNO_3$ Lab Water-160 Hardness HW
Work Order No.: NA

Start Date & Time: March 24, 2010 1430h
End Date & Time: March 28, 2010
Test Organism: *H. azteca*

Conc. (g/L $NaNO_3$)	Rep	Survival 24	48	72	96	Temperature (°C) 0	24	48	72	96	Dissolved oxygen (mg/L) 0	24	48	72	96	pH 0	24	48	72	96	Conductivity (µS) 0	96
0	A	10	10	10	10	23.0	24.0	22.0	22.5	22.5	7.0	7.0	6.9	7.0	7.1	8.2	7.9	8.0	7.8	7.9	616	685
	B	9	9	9	9																	
	C	10	10	10	10																	
0.625	A	10	10	10	10	23.0	23.0	22.0	22.5	22.5	6.9	6.7	6.9	7.1	7.2	8.3	7.9	7.9	7.9	7.8	1309	1380
	B	10	10	10	10																	
	C	10	10	10	10																	
1.25	A	10	10	10	10	23.5	22.5	22.0	22.5	22.5	6.9	6.8	7.0	6.9	7.1	8.3	7.9	7.9	7.8	7.8	2050	2110
	B	10	10	10	10																	
	C	10	10	10	10																	
2.5	A	10	9	8	8	23.5	23.0	22.0	22.5	22.5	7.0	6.9	7.0	7.1	7.2	8.3	7.8	7.9	7.7	7.8	3550	3570
	B	10	10	10	10																	
	C	10	10	10	10																	
5	A	8	7	7	7	23.0	22.5	22.0	22.5	22.5	7.0	7.0	7.0	7.1	7.2	8.3	7.8	7.8	7.6	7.7	6510	6560
	B	9	8	8	8																	
	C	10	8	8	8																	
10	A	0	—	—	—	23.0	22.5	—	—	—	7.1	7.0	—	—	—	8.3	7.7	—	—	—	12,330	—
	B	0	—	—	—																	
	C	0	—	—	—																	
Technician Initials		QA	EV	~	~	QA	QA	QA	~	~	QA	QA	QA	~	~	QA	QA	QA	~	~	QA	~

Comments: $NaNO_3$ in Hard water.

Reviewed by: _____ Date Reviewed: _____

CETIS Analytical Report

Reference Toxicant 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	04-4256-9032	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	06 Apr-10 17:27	**Analysis:**	Untrimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	05-7631-2660	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	24 Mar-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	Hard Synthetic Water
Ending Date:	28 Mar-10	**Species:**	Hyalella azteca	**Brine:**	
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	20-2610-3341	**Code:**	Hard Water-Nitr	**Client:**	Internal Lab
Sample Date:	24 Mar-10	**Material:**	Sodium Nitrate	**Project:**	Special Studies
Receive Date:		**Source:**	Internal		
Sample Age:	N/A	**Station:**			

Sample Note: Measured Values-as N (mg/L)

Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0.03333	0.00%	2.964	0.0283	920.9	808.3	1049

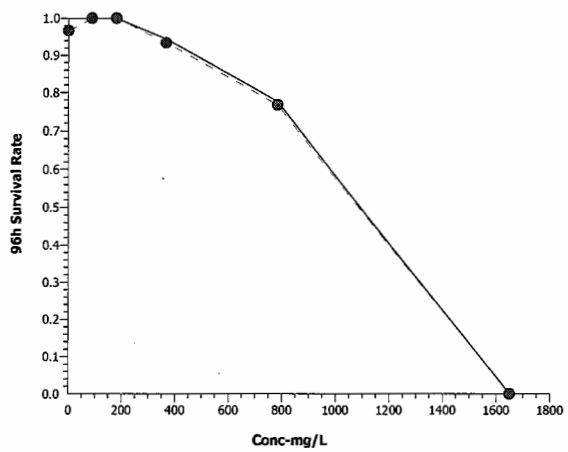
96h Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0.221	Negative Control	3	0.9667	0.9	1	0.01054	0.05773	5.97%	0.0%	29	30
88.3		3	1	1	1	0	0	0.0%	-3.45%	30	30
180		3	1	1	1	0	0	0.0%	-3.45%	30	30
366		3	0.9333	0.8	1	0.02108	0.1155	12.37%	3.45%	28	30
783		3	0.7667	0.7	0.8	0.01054	0.05774	7.53%	20.69%	23	30
1650		3	0	0	0	0	0		100.0%	0	30

96h Survival Rate Detail

Conc-mg/L	Control Type	Rep 1	Rep 2	Rep 3
0.221	Negative Control	1	0.9	1
88.3		1	1	1
180		1	1	1
366		0.8	1	1
783		0.7	0.8	0.8
1650		0	0	0

Graphics



Reference Toxicant 96-h Acute Survival Test — **Nautilus Environmental**

Analysis ID:	11-2000-2527	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Mar-11 10:18	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	05-7631-2660	**Test Type:**	Survival (96h)	**Analyst:**	
Start Date:	24 Mar-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	Hard Synthetic Water
Ending Date:	28 Mar-10	**Species:**	Hyalella azteca	**Brine:**	
Duration:	96h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	20-2610-3341	**Code:**	Hard Water-Nitr	**Client:**	Internal Lab
Sample Date:	24 Mar-10	**Material:**	Sodium Nitrate	**Project:**	Special Studies
Receive Date:		**Source:**	Internal		
Sample Age:	N/A	**Station:**			

Sample Note: Measured Values-as N (mg/L)

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	783	1650	1137	

Fisher Exact/Bonferroni-Holm Test

Sample	vs	Sample	Test Stat	P-Value	Decision(0.05)
0.221		88.3	1	1.0000	Non-Significant Effect
0.221		180	1	1.0000	Non-Significant Effect
0.221		366	0.5	1.0000	Non-Significant Effect
0.221		783	0.02616	0.1046	Non-Significant Effect
0.221		1650	0	<0.0001	Significant Effect

Data Summary

Conc-mg/L	Control Type	No-Resp	Resp	Total
0.221	Negative Contr	29	1	30
88.3		30	0	30
180		30	0	30
366		28	2	30
783		23	7	30
1650		0	30	30

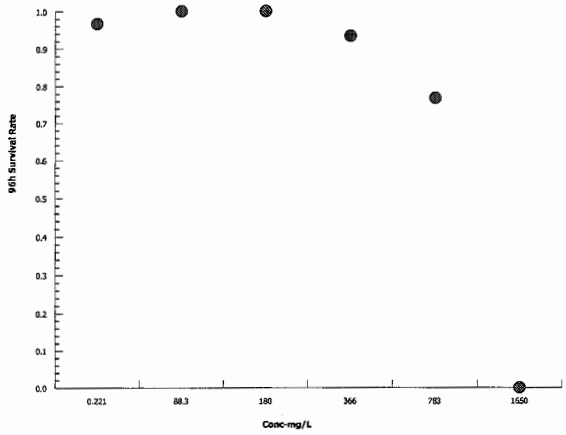
96h Survival Rate Detail

Conc-mg/L	Control Type	Rep 1	Rep 2	Rep 3
0.221	Negative Control	1	0.9	1
88.3		1	1	1
180		1	1	1
366		0.8	1	1
783		0.7	0.8	0.8
1650		0	0	0

Reference Toxicant 96-h Acute Survival Test **Nautilus Environmental**

Analysis ID:	11-2000-2527	**Endpoint:**	96h Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Mar-11 10:18	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Client: RSD

W.O.#: NA

Hardness and Alkalinity Datasheet

	Alkalinity						Hardness			
Sample ID	Sample Date	Sample Volume (mL)	(mL) 0.02N HCL/H_2SO_4 used to pH 4.5	(mL) of 0.02N HCL/H_2SO_4 used to pH 4.2	Total Alkalinity ($mg/LCaCO_3$)		Sample Volume (mL)	Volume of 0.01M EDTA Used (mL)	Total Hardness ($mg/L\ CaCO_3$)	Technician
SOFT WATER	Mar 5024/10	50	1.6	1.7	30		50	2.2	44	QL
MHW	Mar5024/10	50	3.0	3.1	58		50	5.0	100	QL
HW	Mar5024/10	50	4.6	4.7	90		50	8.2	164	QL

Notes: _____

Reviewed by: _____ Date Reviewed: _____

APPENDIX C – Fathead minnow tests

Fathead Minnow Test Summary Sheet

Client: BCMA

Start Date/Time: Sept 14/10 @ 1630h

Work Order No.: N/A

Test Species: *Pimephales promelas*

Sample Information:

Sample ID: Dechlor-Nitrate
Sample Date: —
Date Received: —
Sample Volume: —

Dilution Water:

Type: Dechlorinated Municipal Tap Water
Hardness (mg/L $CaCO_3$): 12
Alkalinity (mg/L $CaCO_3$): 16

Test Organism Information:

Batch No.: 091410
Source: ABS, Colorado
Loading Density: N/A

NaCl Reference Toxicant Results:

Reference Toxicant ID: PP45
Stock Solution ID: N/A
Date Initiated: Sept 14, 2010
7-d EC50 (95% CL): 3.9 (3.4-4.5)
7-d IC50 (95% CL): 3.2 (2.7-4.6)

Survival:
Reference Toxicant ~~Acceptable~~ Historical Range: 3.7 - 6.3 CV (%): 14

Biomass
Reference Toxicant ~~Acceptable~~ Historical Range: 3.0 - 5.7 CV (%): 17

Test Results:

	mg NO_3-N/L	
	Survival	Biomass
LC25 % ~~(v/v)~~ (95% CL)	92 (70 - 106)	
LC50 % ~~(v/v)~~ (95% CL)	113 (96 - 130)	
IC25 % ~~(v/v)~~ (95% CL)		66 (43-83)
IC50 % ~~(v/v)~~ (95% CL)		98 (80 - 120)

Reviewed by: A. Tong

Date reviewed: January 14, 2011

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client:	IN-HOUSE	**Start Date & Time:**	14-Sep-10
Sample ID:	DECHLOR-NITRATE	**Stop Date & Time:**	21-Sep-10
Work Order #:	N/A	**Test Species:**	*Pimephales promelas*

N (mg/L) Concentration	Days													
	0	1		2		3		4		5		6		7
Control	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	26.0	25.5	24.0	25.0	26.0	25.0	26.0	25.5	25.0	25.0	24.5	24.5	24.5
DO (mg/L)	8.0	7.5	6.5	7.6	5.80	7.4	5.7	7.6	5.9	7.8	5.2	8.2	3.5	4.8
pH	7.2	7.4	7.1	7.5	7.2	7.2	6.9	7.2	7.2	7.2	6.9	7.3	6.8	7.1
Cond. (µS/cm)	35	34		36		35		37		35		345		53
Initials				SKM		JAB						BR		

Concentration	Days													
	0	1		2		3		4		5		6		7
50	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	26.0	24.5	26.0	24.5	25.5	24.5	26.0	25.5	25.0	25.0	24.0	24.5	24.0
DO (mg/L)	8.1	7.2	6.4	7.1	6.0	7.2	6.4	7.6	6.0	7.7	5.4	8.3	4.5	5.0
pH	7.3	7.3	7.1	7.3	7.1	7.2	6.8	7.2	7.1	7.2	6.9	7.3	6.8	7.0
Cond. (µS/cm)	452	442		449		447		435		411		441		469
Initials				SKM		JAB						BR		

Concentration	Days													
	0	1		2		3		4		5		6		7
200	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	24.5	25.5	24.0	25.0	25.0	25.0	26.0	26.0	25.5	25.0	25.0	24.0	24.5	24.5
DO (mg/L)	8.0	7.2	6.7	7.1	6.2	7.3	6.0	7.6	6.0	7.8	5.7	8.3	4.5	6.0
pH	7.2	7.3	7.1	7.3	7.0	7.2	6.9	7.2	7.2	7.2	6.9	7.3	6.7	7.0
Cond. (µS/cm)	1632	1597		1619		1598		1515		1529		1603		1664
Initials				SKM		JAB						BR		

Concentration	Days													
	0	1		2		3		4		5		6		7
1600	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.5	25.0	25.5											
DO (mg/L)	8.0	7.2	6.5											
pH	7.1	7.1	7.0											
Cond. (µS/cm)	11570	11400												
Initials														

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*	12			
Alkalinity*	16			

* mg/L as CaCO3

Analysts: JAB

Reviewed by: ART

Date reviewed: Jan 14/11

Sample Description:

Comments:

7-d Fathead Minnow Toxicity Test
Daily Survival

Client: IN-HOUSE
Sample ID: DECHLOR-NITRATE
Work Order #: N/A

Start Date & Time: 14-Sep-10
Stop Date: 21-Sep-10
Test Species: *Pimephales promelas*

Concentration N (mg/L)	Rep	Day of Test - No. of Survivors							Comments
		1	2	3	4	5	6	7	
Control	A	10	10	10	10	10	9	9	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
50	A	10	10	10	10	10	9	9	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
100	A	10	10	8	7	7	7	6	
	B	10	10	9	9	8	8	~~6~~ 7	
	C	10	10	8	8	8	8	6	
200	A	10	10	4	2	1	1	1	
	B	10	9	3	2	1	1	0	
	C	10	10	4	3	1	0	—	
400	A	10	5	0	—	—	—	—	
	B	10	8	2	1	0	—	—	
	C	10	3	0	—	—	—	—	
800	A	9	0	—	—	—	—	—	
	B	10	1	0	—	—	—	—	
	C	10	0	—	—	—	—	—	
1600	A	1	0	—	—	—	—	—	
	B	0	—	—	—	—	—	—	
	C	0	—	—	—	—	—	—	
	A								
	B								
	C								
	A								
	B								
	C								
	A								
	B								
	C								
Tech Initials		QW	QW	QW	~	JAB	QW	QW	

Comments:

Reviewed by: A. Terry

Date reviewed: January 14, 2011

Fathead Minnow Toxicity Test Data Sheet

Dry Weight Data

Client: **IN-HOUSE** Start Date: 14-Sep-10

Sample ID: **DECHLOR-NITRATE** Termination Date: 21-Sep-10

Work Order No.: N/A

N (mg/L)

Sample ID	Rep	BLUE Pan No.	No. alive	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	A	1	9	W	1302.98	1307.64	9	JAB
	B	2	10		1290.32	1296.78	10	
	C	3	10		1304.46	1310.56	10	
50	A	4	9		1301.43	1306.57	9	
	B	5	10		1280.08	1285.97	10	
	C	6	10		1282.78	1287.74	10	
100	A	7	6	W	1291.30	1294.20	6	
	B	8	JAB ~~6~~ 7		1290.12	1293.07	7	
	C	9	6		1299.71	1302.23	6	
200	A	10	1		1297.73	1297.91	JAB ~~0~~ 1	
	B	11	0		1301.53	—	0	
	C	12	0		1298.75	—	0	
~~400~~	A	13						
	B	14						
	C	15						
~~800~~	A	16						
	B	17						
	C	18						
~~1600~~	A	19						
	B	20						
	C	21						
	A	~~22~~						
	B	23						
	C	24						

Comments: Reweigh pan 4 = 1306.68 mg

Reviewed by: A. Teng Date Reviewed: January 13, 2011

Generated: March 17, 2009

CETIS Analytical Report

Test Code: 08-1998-1090/FHM-N03-DC

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	12-0862-5595	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	23 Sep-10 18:19	**Analysis:**	Linear Regression (MLE)	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod-Hard Synthetic Water~~ JAB
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	Dechlorinated Municipal
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	Tap Water
Sample ID:	20-5795-1604	**Code:**	7AA9D974	**Client:**	BCMA
Sample Date:	~~23 Sep-10 18:15~~ AT	**Material:**	NO3 Dechlor	**Project:**	
Receive Date:	~~23 Sep-10 18:15~~ AT	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Regression Options

Model Function	Threshold Option	Threshold	Optimized	Pooled	Het Corr	Weighted
Log-Normal [NED=A+B*log(X)]	Control Threshold	0.0333333	Yes	No	No	Yes

Regression Summary

Iters	LL	AICc	Mu	Sigma	G Stat	Chi-Sq	Critical	P-Value	Decision(5%)
8	-24.301	53.401	-1.3774	0.13532	0.19838	3.6026	26.296	0.9994	Non-Significant Heterogeneity

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC5	67.829	41.814	83.408
EC10	75.958	50.897	90.886
EC15	81.986	57.999	96.498
EC20	87.117	64.233	101.38
EC25	91.774	69.994	105.94
EC40	104.64	85.948	119.69
EC50	113.24	96.11	130.34

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(5%)
Threshold	0.031404	0.02397	-0.015577	0.078385	1.3102	0.2086	Non-Significant Parameter
Slope	7.3901	1.6794	4.0986	10.682	4.4005	0.0004	Significant Parameter
Intercept	-10.179	3.4806	-17.001	-3.3573	-2.9246	0.0099	Significant Parameter

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Variances	Mod Levene Equality of Variance	0.67255	4.3874	0.6599	Equal Variances
Distribution	Shapiro-Wilk Normality	0.90343		0.0660	Normal Distribution

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	3	0.96667	0.9	1	0.010541	0.057735	5.97%	0.0%	29	30
50		3	0.96667	0.9	1	0.010541	0.057735	5.97%	0.0%	29	30
100		3	0.63333	0.6	0.7	0.010541	0.057735	9.12%	34.48%	19	30
200		3	0.033333	0	0.1	0.010541	0.057735	173.21%	96.55%	1	30
400		3	0	0	0	0	0		100.0%	0	30
800		3	0	0	0	0	0		100.0%	0	30
1600		3	0	0	0	0	0		100.0%	0	30

Fathead Minnow 7-d Larval Survival and Growth Test

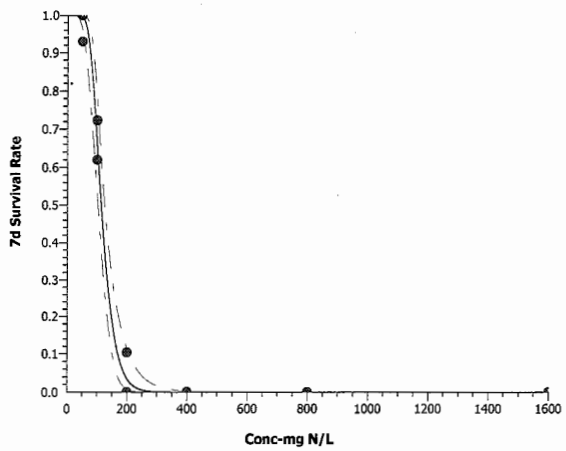
Nautilus Environmental

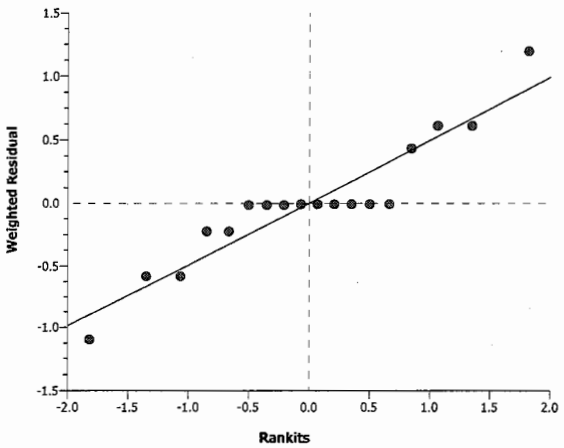
Analysis ID:	12-0862-5595	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	23 Sep-10 18:19	**Analysis:**	Linear Regression (MLE)	**Official Results:**	Yes

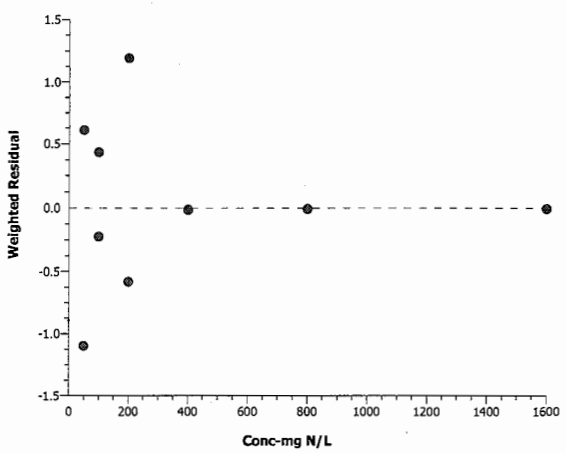
7d Survival Rate Detail

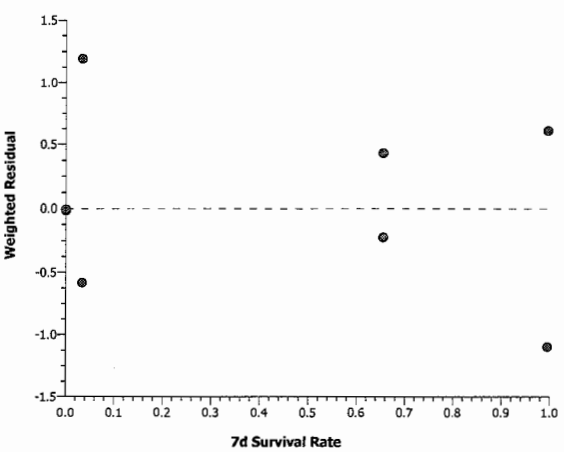
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	0.9	1	1
50		0.9	1	1
100		0.6	0.7	0.6
200		0.1	0	0
400		0	0	0
800		0	0	0
1600		0	0	0

Graphics









CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	12-8082-2014	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:24	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod-Hard Synthetic Water~~ JTB Dechlorinated Municipal
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	Tap Water
Sample ID:	20-5795-1604	**Code:**	7AA9D974	**Client:**	BCMA
Sample Date:	23 Sep-10 18:15	**Material:**	NO3	**Project:**	
Receive Date:	23 Sep-10 18:15	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	50	100	70.71	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		50	0.7542	0.7542	Non-Significant Effect
		100	0.001233	0.0025	Significant Effect
		200	0	<0.0001	Significant Effect
		400	0	<0.0001	Significant Effect
		800	0	<0.0001	Significant Effect
		1600	0	<0.0001	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	29	1	30
50		29	1	30
100		19	11	30
200		1	29	30
400		0	30	30
800		0	30	30
1600		0	30	30

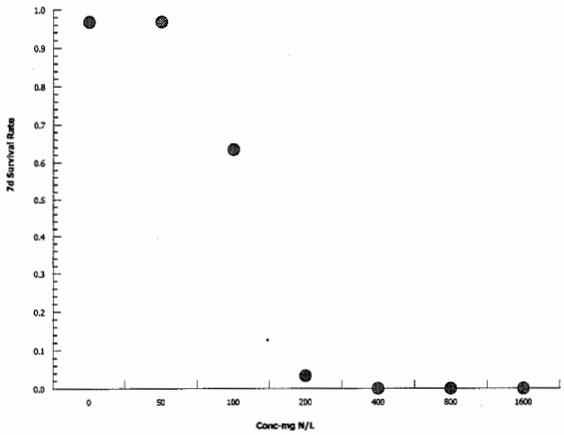
7d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	0.9	1	1
50		0.9	1	1
100		0.6	0.7	0.6
200		0.1	0	0
400		0	0	0
800		0	0	0
1600		0	0	0

Fathead Minnow 7-d Larval Survival and Growth Test **Nautilus Environmental**

Analysis ID:	12-8082-2014	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:24	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Report Date: 27 Sep-10 16:49 (p 1 of 1)
Test Code: 08-1998-1090/FHM-N03-DC

Fathead Minnow 7-d Larval Survival and Growth Test

Nautilus Environmental

Analysis ID:	17-4408-6281	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	27 Sep-10 16:31	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod Hard Synthetic Water~~ JKB Dechlorinated Municipal
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	Tap Water
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	20-5795-1604	**Code:**	7AA9D974	**Client:**	BCMA
Sample Date:	~~23 Sep-10 18:15~~	**Material:**	NO3 Dechlor	**Project:**	
Receive Date:	~~23 Sep-10 18:15~~	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	14.667	N/A	97.521
IC10	52.299	N/A	65.479
IC15	56.577	N/A	70.883
IC20	61.198	32.43	76.726
IC25	66.191	43.008	83.043
IC40	83.704	64.278	105.7
IC50	97.848	79.858	120.28

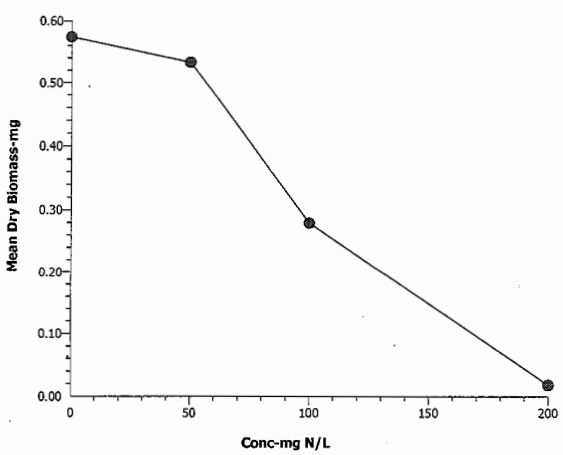
Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	3	0.57401	0.466	0.64601	0.01739	0.09525	16.59%	0.0%
50		3	0.533	0.496	0.589	0.0090064	0.04933	9.26%	7.14%
100		3	0.279	0.252	0.295	0.0042925	0.023511	8.43%	51.4%
200		1	0.018005	0.018005	0.018005	0	0	0.0%	96.86%

Mean Dry Biomass-mg Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	0.466	0.64601	0.61001
50		0.51399	0.589	0.496
100		0.28999	0.295	0.252
200		0.018005		

Graphics



CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	16-7360-4852	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:38	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod-Hard Synthetic Water~~ JAB Dechlorinated Municipal Tap Water
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	20-5795-1604	**Code:**	7AA9D974	**Client:**	BCMA
Sample Date:	23 Sep-10 18:15	**Material:**	NO3	**Project:**	
Receive Date:	23 Sep-10 18:15	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	50	100	70.71		19.0%

Dunnett's Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		50	0.9107	2.417	4	0.1088	0.3751	Non-Significant Effect
		100*	6.551	2.417	4	0.1088	0.0002	Significant Effect
		200*	12.61	2.417	4	0.1088	<0.0001	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.6210809	0.207027	3	68.06	<0.0001	Significant Effect
Error	0.02433368	0.00304171	8			
Total	0.6454146	0.2100687	11			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	6.907	11.34	0.0749	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9493	0.8025	0.6271	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	3	0.574	0.5378	0.6102	0.466	0.646	0.05499	0.09525	16.59%	0.0%
50		3	0.533	0.5142	0.5518	0.496	0.589	0.02848	0.04933	9.26%	7.15%
100		3	0.279	0.2701	0.2879	0.252	0.295	0.01357	0.02351	8.43%	51.4%
200		3	0.006002	0.002048	0.009956	0	0.01801	0.006002	0.0104	173.2%	98.95%
400		3	0	0	0	0	0	0	0		100.0%
800		3	0	0	0	0	0	0	0		100.0%
1600		3	0	0	0	0	0	0	0		100.0%

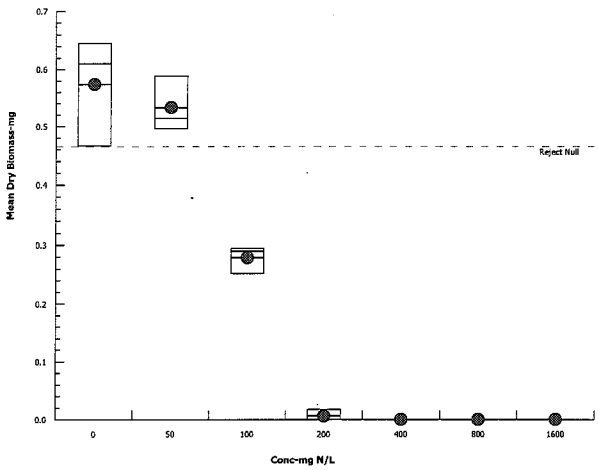
Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

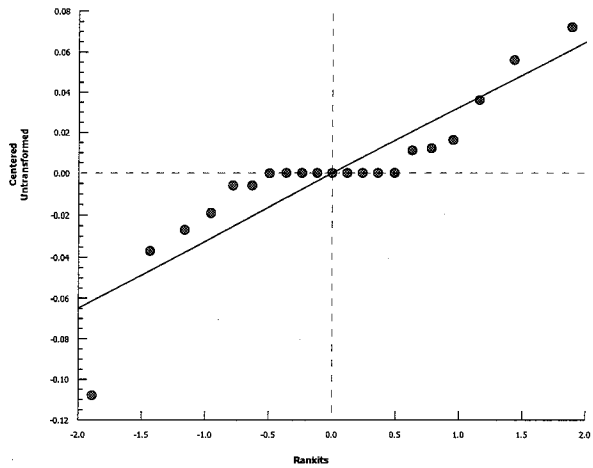
Analysis ID:	16-7360-4852	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:38	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	0.466	0.646	0.61
50		0.514	0.589	0.496
100		0.29	0.295	0.252
200		0.01801	0	0
400		0	0	0
800		0	0	0
1600		0	0	0

Graphics





Fathead Minnow Test Summary Sheet

Client: BCMA

Start Date/Time: Sept 14/10 @ 1615h

Work Order No.: N/A

Test Species: *Pimephales promelas*

Sample Information:

Sample ID: Soft Water - Nitrate
Sample Date: —
Date Received: —
Sample Volume: —

Dilution Water:

Type: Soft Water
Hardness (mg/L $CaCO_3$): 50
Alkalinity (mg/L $CaCO_3$): 36

Test Organism Information:

Batch No.: 091410
Source: ABS, Colorado
Loading Density: N/A

NaCl Reference Toxicant Results:

Reference Toxicant ID: PP45
Stock Solution ID: N/A
Date Initiated: Sept 14, 2010
7-d EC50 (95% CL): 3.9 (3.4-4.5)
7-d IC50 (95% CL): 3.2 (2.7-4.0)

Survival:
Reference Toxicant ~~Acceptable~~ Historical Range: 3.7-6.3 CV (%): 14

Biomass
Reference Toxicant ~~Acceptable~~ Historical Range: 3.0 - 5.7 CV (%): 17

Test Results:

	Survival	Biomass
LC25 % (v/v) (95% CL)	n/a	
LC50 % (v/v) (95% CL)	229 (194-270)	
IC25 % (v/v) (95% CL)		205 (N/A - 243)
IC50 % (v/v) (95% CL)		256 (181-287)

Reviewed by: A. Teng

Date reviewed: January 14, 2011

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client:	IN-HOUSE	**Start Date & Time:**	14-Sep-10
Sample ID:	SOFT WATER-NITRATE	**Stop Date & Time:**	21-Sep-10
Work Order #:	N/A	**Test Species:**	*Pimephales promelas*

N (mg/L) Concentration	Days													
	0	1		2		3		4		5		6		7
Control	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	24.0	26.0	25.0	24.0	24.5	25.5	26.0	25.5	26.0	24.0	25.0	25.0	25.5	24.5
DO (mg/L)	8.1	7.3	6.4	7.8	6.0	7.3	4.8	7.6	6.0	7.8	5.6	8.1	4.9	5.1
pH	7.7	7.9	7.4	7.8	7.2	7.8	6.9	8.1	7.5	7.8	7.1	7.9	7.8 / 8.01	7.1
Cond. (µS/cm)	174	174		176		174		175		176		176		196
Initials	aw	aw		SKM		aw		~		~		BPL		aw

Concentration	Days													
	0	1		2		3		4		5		6		7
50	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	24.0	26.0	24.6	24.0	24.5	25.0	25.0	26.0	26.0	24.0	25.0	25.0	26.0	24.5
DO (mg/L)	8.1	7.2	6.7	7.8	6.3	7.6	5.5	7.8	5.8	7.9	5.4	8.2	4.7	5.6
pH	7.8	7.9	7.5	7.8	7.3	7.4	7.1	8.1	7.5	7.8	7.1	7.9	7.1	7.2
Cond. (µS/cm)	579	608		589		576		600		597		580		620
Initials	aw	aw		SKM		aw		~		~		BPL		aw

Concentration	Days													
	0	1		2		3		4		5		6		7
200	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	24.5	25.5	24.5	25.5	24.5	25.0	25.0	26.0	26.0	24.0	25.0	25.0	26.0	24.5
DO (mg/L)	8.1	7.2	6.7	8.1	6.6	7.5	5.6	7.6	5.9	8.0	5.7	8.2	4.4	5.4
pH	7.8	7.8	7.5	7.9	7.3	7.8	7.1	8.1	7.4	7.8	7.1	7.9	7.1	7.1
Cond. (µS/cm)	1743	1839		1765		1725		1810		1735		1705		1800
Initials	aw	aw		SKM		aw		~		~		BPL		aw

Concentration	Days													
	0	1		2		3		4		5		6		7
1600	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.5	25.0	25.5	24.6	24.5									
DO (mg/L)	8.1	7.3	6.4	8.1	6.4									
pH	7.6	7.7	7.3	7.6	7.2									
Cond. (µS/cm)	11620	12290		11700										
Initials	aw	aw		SKM										

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*	50			
Alkalinity*	36			

* mg/L as CaCO3

Analysts: JAB

Reviewed by: ART

Date reviewed: Jan 14/11

Sample Description:

Comments:

7-d Fathead Minnow Toxicity Test
Daily Survival

Client: IN-HOUSE
Sample ID: SOFT WATER-NITRATE
Work Order #: N/A

Start Date & Time: 14-Sep-10
Stop Date: 21-Sep-10
Test Species: *Pimephales promelas*

Concentration N (mg/L)	Rep	Day of Test - No. of Survivors							Comments
		1	2	3	4	5	6	7	
Control	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
50	A	10	10	10	10	9	9	9	
	B	10	10	10	10	9	9	9	
	C	10	10	10	10	10	10	10	
100	A	10	10 SLM JAB	10	10	9	9	9	
	B	10	10	10	10	9	9	9	
	C	10	10	10	10	10	9	7	
200	A	10	10	10	9	9	9	6	
	B	10	10	10	10	10	10	9	
	C	10	10	10	10	10	10	9	
400	A	10	10	3	2	2	1	0	
	B	10	10	7	3	2	1	0	
	C	10	9	4	4	2	1	0	
800	A	10	0	—	—	—	—	—	
	B	10	1	0	—	—	—	—	
	C	10	0	—	—	—	—	—	
1600	A	7	0	—	—	—	—	—	
	B	5	0	—	—	—	—	—	
	C	7	0	—	—	—	—	—	
	A								
	B								
	C								
	A								
	B								
	C								
	A								
	B								
	C								
Tech Initials		QW	SLM	JAB	—	JAB	BRL	QW	

Comments:

Reviewed by: A. Tang

Date reviewed: January 13, 2011

Fathead Minnow Toxicity Test Data Sheet

Dry Weight Data

Client: **IN-HOUSE** Start Date: 14-Sep-10

Sample ID: **SOFT WATER-NITRATE** Termination Date: 21-Sep-10

Work Order No.: N/A

N (mg/L)

Sample ID	Rep	ORANGE Pan No.	No. alive	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	A	22	10	AV	1298.88	1305.08	10	JAB
	B	23	10		1289.13	1294.33	10	
	C	24	10		1295.99	1301.89	10	
50	A	25	9		1293.03	1297.47	9	
	B	26	9		1295.58	1300.33	9	
	C	27	10		1295.19	1299.94	10	
100	A	28	9	AV	1294.33	1298.95	9	
	B	29	9		1288.40	1293.63	9	
	C	30	7		1297.89	1301.10	7	
200	A	31	6		1297.23	1300.58	6	
	B	32	9		1295.53	1300.67	9	
	C	33	9		1295.90	1301.32	9	
400	A	34	0		1294.57	—	0	
	B	35	0		1296.25	—	0	
	C	36	0		1293.91	—	0	
~~800~~	A	37						
	B	38						
	C	39						
~~1600~~	A	40						
	B	41						
	C	42						

Comments: Reweigh: Pan 29 = 1293.61 mg ; Pan 31 = 1300.68 mg

Reviewed by: A. Tong Date Reviewed: January 13, 2011

Generated: March 17, 2009

CETIS Analytical Report

Test Code: 19-8349-6049/FHM-NO3-SW

Fathead Minnow 7-d Larval Survival and Growth Test — Nautilus Environmental

Analysis ID:	11-7364-1770	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	23 Sep-10 18:24	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod-Hard Synthetic Water~~ Soft Water JAB
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	14-3562-1343	**Code:**	5591D7DF	**Client:**	BCMA
Sample Date:	~~23 Sep-10 18:23 JT~~	**Material:**	NO3 SW	**Project:**	
Receive Date:	~~23 Sep-10 18:23 JT~~	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	6.67%	2.3599	0.035498	229.03	194.49	269.7

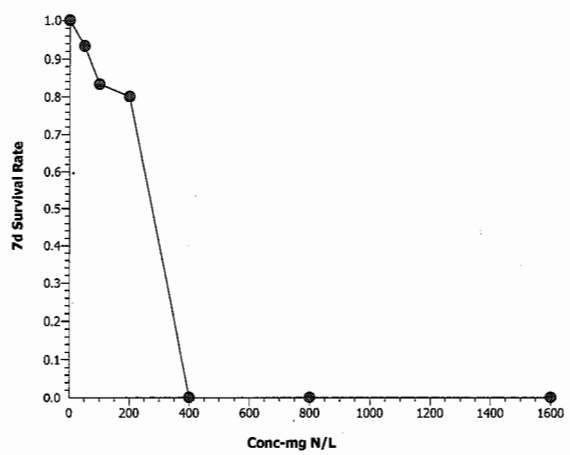
7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**Diff%**	**A**	**B**
0	Negative Control	3	1	1	1	0	0	0.0%	0.0%	30	30
50		3	0.93333	0.9	1	0.010541	0.057735	6.19%	6.67%	28	30
100		3	0.83333	0.7	0.9	0.021082	0.11547	13.86%	16.67%	25	30
200		3	0.8	0.6	0.9	0.031623	0.1732	21.65%	20.0%	24	30
400		3	0	0	0	0	0		100.0%	0	30
800		3	0	0	0	0	0		100.0%	0	30
1600		3	0	0	0	0	0		100.0%	0	30

7d Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	1	1	1
50		0.9	0.9	1
100		0.9	0.9	0.7
200		0.6	0.9	0.9
400		0	0	0
800		0	0	0
1600		0	0	0

Graphics



 Analyst:_____ QA: JAB 13/11

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	00-8224-5427	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:24	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod-Hard Synthetic Water~~ JKB Soft Water
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	14-3562-1343	**Code:**	5591D7DF	**Client:**	BCMA
Sample Date:	23 Sep-10 18:23	**Material:**	NO3	**Project:**	
Receive Date:	23 Sep-10 18:23	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	100	200	141.4	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		50	0.2458	0.2458	Non-Significant Effect
		100	0.02609	0.0522	Non-Significant Effect
		200	0.01186	0.0356	Significant Effect
		400	0	<0.0001	Significant Effect
		800	0	<0.0001	Significant Effect
		1600	0	<0.0001	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	30	0	30
50		28	2	30
100		25	5	30
200		24	6	30
400		0	30	30
800		0	30	30
1600		0	30	30

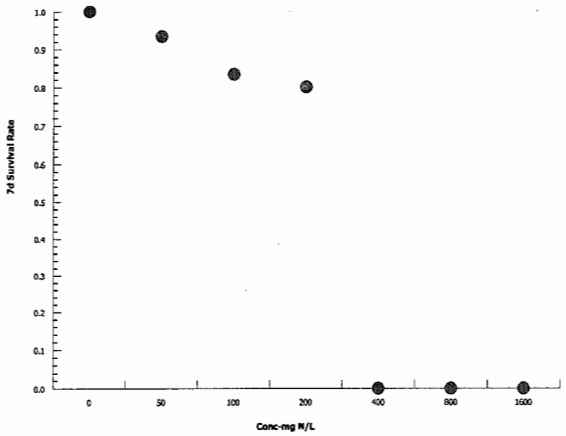
7d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	1	1	1
50		0.9	0.9	1
100		0.9	0.9	0.7
200		0.6	0.9	0.9
400		0	0	0
800		0	0	0
1600		0	0	0

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	00-8224-5427	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:24	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	09-9026-5145	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	27 Sep-10 16:43	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod-Hard Synthetic Water~~ JAB Soft Water
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	14-3562-1343	**Code:**	5591D7DF	**Client:**	BCMA
Sample Date:	~~23 Sep-10 18:23~~ AT	**Material:**	NO3 SW	**Project:**	
Receive Date:	~~23 Sep-10 18:23~~ AT	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	1.7517	0.51029	14.144
IC10	6.5717	0.47375	109.98
IC15	19.835	N/A	412.03
IC20	58.264	N/A	386.97
IC25	205.32	N/A	243.1
IC40	234.65	106.03	268.88
IC50	256.48	180.5	287.47

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-mg N/	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**Diff%**
0	Negative Control	3	0.57666	0.52	0.62	0.0093692	0.051317	8.9%	0.0%
50		3	0.46466	0.44399	0.475	0.0032683	0.017901	3.85%	19.42%
100		3	0.43533	0.321	0.523	0.018916	0.10361	23.8%	24.51%
200		3	0.46366	0.335	0.54199	0.020504	0.1123	24.22%	19.6%
400		3	0	0	0	0	0		100.0%
800		3	0	0	0	0	0		100.0%
1600		3	0	0	0	0	0		100.0%

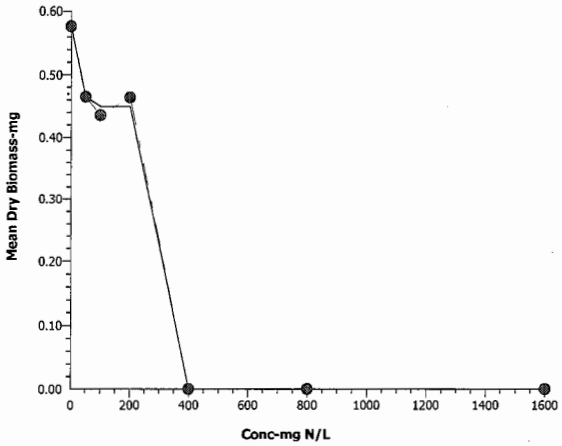
Mean Dry Biomass-mg Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	0.62	0.52	0.59
50		0.44399	0.475	0.475
100		0.462	0.523	0.321
200		0.335	0.514	0.54199
400		0	0	0
800		0	0	0
1600		0	0	0

Fathead Minnow 7-d Larval Survival and Growth Test **Nautilus Environmental**

Analysis ID:	09-9026-5145	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	27 Sep-10 16:43	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	08-0413-9862	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	28 Mar-11 15:26	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod-Hard Synthetic Water~~ JAB Soft Water
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	14-3562-1343	**Code:**	5591D7DF	**Client:**	BCMA
Sample Date:	23 Sep-10 18:23	**Material:**	NO3	**Project:**	
Receive Date:	23 Sep-10 18:23	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	200	400	282.8		27.7%

Dunnett's Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		50	1.692	2.417	4	0.16	0.1429	Non-Significant Effect
		100	2.135	2.417	4	0.16	0.0758	Non-Significant Effect
		200	1.707	2.417	4	0.16	0.1399	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.03521415	0.01173805	3	1.785	0.2277	Non-Significant Effect
Error	0.05260118	0.006575147	8			
Total	0.08781533	0.0183132	11			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	4.626	11.34	0.2013	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9149	0.8025	0.2461	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	3	0.5767	0.5571	0.5962	0.52	0.62	0.02963	0.05132	8.9%	0.0%
50		3	0.4647	0.4579	0.4715	0.444	0.475	0.01034	0.0179	3.85%	19.42%
100		3	0.4353	0.3959	0.4747	0.321	0.523	0.05982	0.1036	23.8%	24.51%
200		3	0.4637	0.4209	0.5064	0.335	0.542	0.06484	0.1123	24.22%	19.6%
400		3	0	0	0	0	0	0	0		100.0%
800		3	0	0	0	0	0	0	0		100.0%
1600		3	0	0	0	0	0	0	0		100.0%

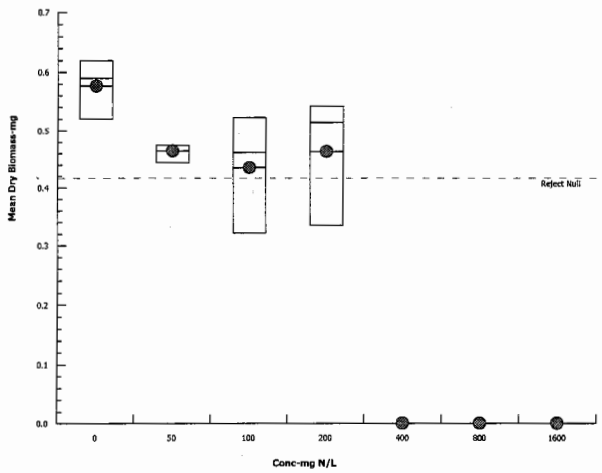
Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

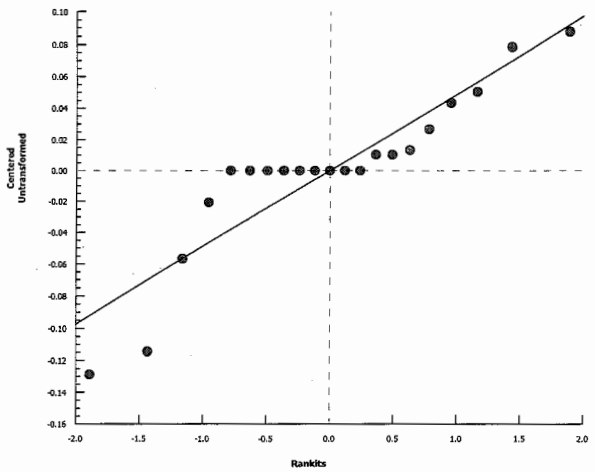
Analysis ID:	08-0413-9862	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	28 Mar-11 15:26	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	0.62	0.52	0.59
50		0.444	0.475	0.475
100		0.462	0.523	0.321
200		0.335	0.514	0.542
400		0	0	0
800		0	0	0
1600		0	0	0

Graphics





Fathead Minnow Test Summary Sheet

Client: BCMA

Start Date/Time: Sept 14/10 @ 1640h

Work Order No.: N/A

Test Species: *Pimephales promelas*

Sample Information:

Sample ID: MHW-Nitrate
Sample Date: —
Date Received: —
Sample Volume: —

Dilution Water:

Type: Moderately Hard Water
Hardness (mg/L $CaCO_3$): 94
Alkalinity (mg/L $CaCO_3$): 66

Test Organism Information:

Batch No.: 091410
Source: ABS, Colorado
Loading Density: N/A

NaCl Reference Toxicant Results:

Reference Toxicant ID: PP45
Stock Solution ID: N/A
Date Initiated: Sept 14/10
7-d EC50 (95% CL): 3.9 (3.4-4.5)
7-d IC50 (95% CL): 3.2 (2.7-4.0)

Survival:
Reference Toxicant ~~Acceptable~~ Historical EPC Range: 3.7-6.3 CV (%): 14

Biomass
Reference Toxicant ~~Acceptable~~ Historical EPC Range: 3.0-5.7 CV (%): 17

Test Results:

	Survival	Biomass
LC25 % (v/v) (95% CL)	n/a	
LC50 % (v/v) (95% CL)	400 (344-465)	
IC25 % (v/v) (95% CL)		340 (154-543)
IC50 % (v/v) (95% CL)		492 (377-581)

Reviewed by: A. Tong

Date reviewed: January 14, 2011

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client:	IN-HOUSE	**Start Date & Time:**	14-Sep-10
Sample ID:	MHW-NITRATE	**Stop Date & Time:**	21-Sep-10
Work Order #:	N/A	**Test Species:**	*Pimephales promelas*

N (mg/L) Concentration Control	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	24.0	24.0	25.0	25.0	24.5	24.5	25.0	26.0	25.0	25.5	25.0	25.5	24.0	25.5
DO (mg/L)	8.1	8.3	6.7	7.6	5.9	7.5	5.2	7.6	6.0	7.7	6.0	7.7	3.1	5.5
pH	8.1	8.2	7.8	8.2	7.5	7.8	7.3	8.2	7.5	8.3	7.6	8.2	7.2	7.3
Cond. (µS/cm)	324	320		326		324		328		326		331		355
Initials	QL	QL		QL		QL		~		~		BRL		QL

Concentration 50	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	24.5	24.5	24.0	25.0	26.0	25.0	25.5	25.0	25.5	24.5	25.0
DO (mg/L)	8.0	8.3	6.6	7.6	6.2	7.4	5.5	7.6	5.9	8.1	4.9	7.8	4.6	5.4
pH	8.1	8.2	7.8	8.2	7.6	8.0	7.2	8.1	7.6	8.2	7.6	8.2	7.3	7.4
Cond. (µS/cm)	725	717		698		722		710		731		730		774
Initials	QL	QL		QL		QL		~		~		BRL		QL

Concentration 200	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.5	24.0	25.5	25.5	25.0	24.0	26.0	26.0	25.0	25.5	25.0	25.5	24.5	25.5
DO (mg/L)	7.9	8.3	6.3	7.4	6.2	7.5	5.3	7.6	6.0	7.8	5.7	7.9	5.0	5.2
pH	8.1	8.1	7.7	8.0	7.5	8.0	7.63	8.1	7.6	7.2	7.6	8.2	7.3	7.4
Cond. (µS/cm)	1888	1860		1778		1872		1815		1836		1877		1969
Initials	QL	QL		SKM		QL		~		~		BRL		QL

Concentration 1600	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	24.0	24.0	25.5	25.0	25.5	—	26.0							
DO (mg/L)	8.2	8.3	6.3	7.4	6.2	—	6.2							
pH	7.9	8.0	7.6	8.0	7.4	—	7.3							
Cond. (µS/cm)	11730	11630		11090		QL								
Initials	QL	QL		SKM		QL								

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*	99			
Alkalinity*	66			

* mg/L as CaCO3

Analysts: JAB

Reviewed by: KRT

Date reviewed: Jan 14/11

Sample Description:

Comments:

7-d Fathead Minnow Toxicity Test
Daily Survival

Client: IN-HOUSE
Sample ID: MHW-NITRATE
Work Order #: N/A

Start Date & Time: 14-Sep-10
Stop Date: 21-Sep-10
Test Species: *Pimephales promelas*

Concentration N (mg/L)	Rep	Day of Test - No. of Survivors							Comments
		1	2	3	4	5	6	7	
Control	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
50	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
100	A	10	10	10	10	10	9	9	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
200	A	10	10	10	10	9	8	8	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	9	
400	A	10	10	9	7	6	6	6	
	B	10	10	10	9	8	8	6	
	C	10	10	10	10	8	7	7	
800	A	10	SKM 8	2	2	6	—	—	
	B	10	8	0	—	—	—	—	
	C	10	10	0	—	—	—	—	
1600	A	10	1	0	—	—	—	—	
	B	7	0	—	—	—	—	—	
	C	6	0	—	—	—	—	—	
	A								
	B								
	C								
	A								
	B								
	C								
	A								
	B								
	C								
Tech Initials		QW	SKM	QW	~	JAB	QW	QW	

Comments:

Reviewed by: A. Tang

Date reviewed: January 13, 2011

Fathead Minnow Toxicity Test Data Sheet

Dry Weight Data

Client: **IN-HOUSE** Start Date: 14-Sep-10

Sample ID: **MHW-NITRATE** Termination Date: 21-Sep-10

Work Order No.: N/A

N (mg/L)

Sample ID	Rep	Pan No. (PURPLE)	No. alive	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	A	43	10	AE	1296.51	1302.03	10	JAB
	B	44	10	↓	~~1299~~ JAB 1300.34	1305.46	10	↓
	C	45	10	↓	1298.31	1303.47	10	↓
50	A	46	10	↓	1301.26	1306.19	10	↓
	B	47	10	↓	1295.39	1299.53	10	↓
	C	48	10	↓	1284.52	1289.01	10	↓
100	A	49	9	AE	~~1288~~ JAB 1290.16	1294.02	9	↓
	B	50	10	↓	1283.71	1288.18	10	↓
	C	51	10	↓	1301.78	1306.51	10	↓
200	A	52	8	↓	1306.20	1310.71	8	↓
	B	53	10	↓	1294.94	1300.26	10	↓
	C	54	9	↓	1299.17	1304.06	9	↓
400	A	55	6	↓	1298.39	1302.05	6	↓
	B	56	6	↓	1299.59	1302.41	6	↓
	C	57	7	↓	1299.51	1304.29	7	↓
~~800~~	A	58						
	B	59						
	C	60						
~~1600~~	A	61						
	B	62						
	C	63						

Comments: Reweigh: Pan 51 = 1306.65mg; Pan 56 = 1302.46mg

Reviewed by: A. Teng Date Reviewed: January 13, 2011

Generated: March 17, 2009

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	01-1836-2542	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	23 Sep-10 18:26	**Analysis:**	Untrimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	13-8286-2970	**Code:**	526CD07A	**Client:**	BCMA
Sample Date:	~~23 Sep-10 18:25~~ ART	**Material:**	NO3	**Project:**	
Receive Date:	~~23 Sep-10 18:25~~ ART	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	0.00%	2.6021	0.032721	400	344.05	465.05

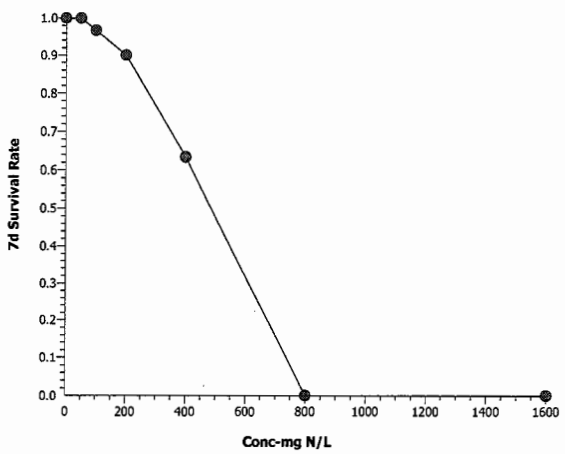
7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**Diff%**	**A**	**B**
0	Negative Control	3	1	1	1	0	0	0.0%	0.0%	30	30
50		3	1	1	1	0	0	0.0%	0.0%	30	30
100		3	0.96667	0.9	1	0.010541	0.057735	5.97%	3.33%	29	30
200		3	0.9	0.8	1	0.018257	0.1	11.11%	10.0%	27	30
400		3	0.63333	0.6	0.7	0.010541	0.057735	9.12%	36.67%	19	30
800		3	0	0	0	0	0		100.0%	0	30
1600		3	0	0	0	0	0		100.0%	0	30

7d Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	1	1	1
50		1	1	1
100		0.9	1	1
200		0.8	1	0.9
400		0.6	0.6	0.7
800		0	0	0
1600		0	0	0

Graphics



ART

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	04-5263-0278	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:24	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	13-8286-2970	**Code:**	526CD07A	**Client:**	BCMA
Sample Date:	23 Sep-10 18:25	**Material:**	NO3	**Project:**	
Receive Date:	23 Sep-10 18:25	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	200	400	282.8	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		50	1	1.0000	Non-Significant Effect
		100	0.5	1.0000	Non-Significant Effect
		200	0.1186	0.3559	Non-Significant Effect
		400	0.000159	0.0006	Significant Effect
		800	0	<0.0001	Significant Effect
		1600	0	<0.0001	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	30	0	30
50		30	0	30
100		29	1	30
200		27	3	30
400		19	11	30
800		0	30	30
1600		0	30	30

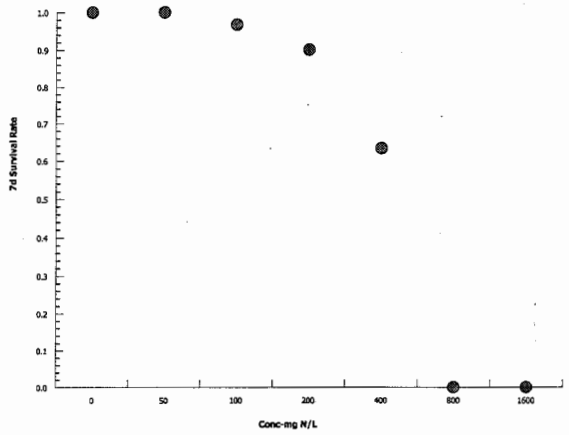
7d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	1	1	1
50		1	1	1
100		0.9	1	1
200		0.8	1	0.9
400		0.6	0.6	0.7
800		0	0	0
1600		0	0	0

Fathead Minnow 7-d Larval Survival and Growth Test **Nautilus Environmental**

Analysis ID:	04-5263-0278	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:24	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	00-5249-7932	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	27 Sep-10 16:43	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	13-8286-2970	**Code:**	526CD07A	**Client:**	BCMA
Sample Date:	~~23 Sep-10 18:25~~ AT	**Material:**	NO3	**Project:**	
Receive Date:	~~23 Sep-10 18:25~~ AT	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	3.6542	0.51125	31.49
IC10	20.661	N/A	439.84
IC15	220.24	N/A	603.49
IC20	273.73	154.42	579.52
IC25	340.14	154.4	542.76
IC40	446.35	293.22	544.04
IC50	491.96	377.49	580.92

Mean Dry Biomass-mg Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	3	0.52666	0.512	0.552	0.0040227	0.022033	4.18%	0.0%
50		3	0.452	0.414	0.49299	0.0072265	0.039581	8.76%	14.18%
100		3	0.43534	0.386	0.473	0.0081536	0.044659	10.26%	17.34%
200		3	0.49067	0.451	0.53201	0.0073995	0.040529	8.26%	6.83%
400		3	0.37534	0.28201	0.478	0.017953	0.098331	26.2%	28.73%
800		3	0	0	0	0	0		100.0%
1600		3	0	0	0	0	0		100.0%

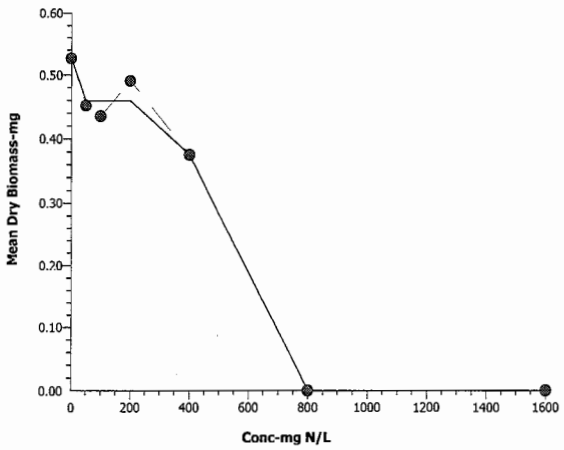
Mean Dry Biomass-mg Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	0.552	0.512	0.51599
50		0.49299	0.414	0.449
100		0.386	0.44701	0.473
200		0.451	0.53201	0.489
400		0.366	0.28201	0.478
800		0	0	0
1600		0	0	0

Fathead Minnow 7-d Larval Survival and Growth Test **Nautilus Environmental**

Analysis ID:	00-5249-7932	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	27 Sep-10 16:43	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	18-8596-7356	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	28 Mar-11 15:29	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	17-6521-9275	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	14 Sep-10	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	21 Sep-10	**Species:**	Pimephales promelas	**Brine:**	
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	13-8286-2970	**Code:**	526CD07A	**Client:**	BCMA
Sample Date:	23 Sep-10 18:25	**Material:**	NO3	**Project:**	
Receive Date:	23 Sep-10 18:25	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	200	400	282.8		21.2%

Dunnett's Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		50	1.65	2.466	4	0.1116	0.1731	Non-Significant Effect
		100	2.018	2.466	4	0.1116	0.1009	Non-Significant Effect
		200	0.7954	2.466	4	0.1116	0.4753	Non-Significant Effect
		400*	3.344	2.466	4	0.1116	0.0119	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.03943462	0.009858655	4	3.21	0.0613	Non-Significant Effect
Error	0.03071626	0.003071626	10			
Total	0.07015088	0.01293028	14			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	4.049	13.28	0.3995	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9739	0.8328	0.9109	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	3	0.5267	0.5183	0.535	0.512	0.552	0.01272	0.02203	4.18%	0.0%
50		3	0.452	0.4369	0.4671	0.414	0.493	0.02285	0.03958	8.76%	14.18%
100		3	0.4353	0.4183	0.4523	0.386	0.473	0.02578	0.04466	10.26%	17.34%
200		3	0.4907	0.4753	0.5061	0.451	0.532	0.0234	0.04053	8.26%	6.83%
400		3	0.3753	0.3379	0.4127	0.282	0.478	0.05677	0.09833	26.2%	28.73%
800		3	0	0	0	0	0	0	0		100.0%
1600		3	0	0	0	0	0	0	0		100.0%

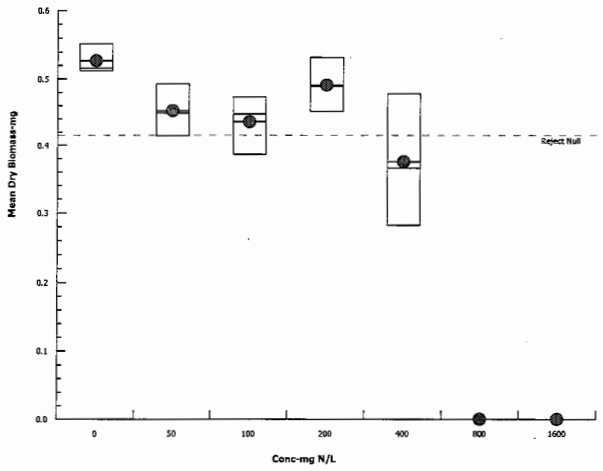
Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

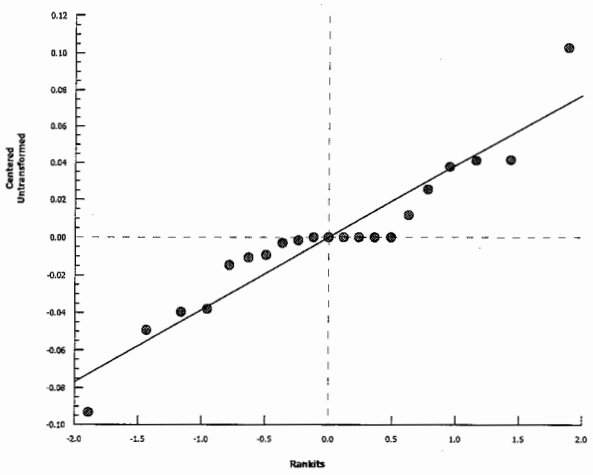
Analysis ID:	18-8596-7356	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	28 Mar-11 15:29	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	0.552	0.512	0.516
50		0.493	0.414	0.449
100		0.386	0.447	0.473
200		0.451	0.532	0.489
400		0.366	0.282	0.478
800		0	0	0
1600		0	0	0

Graphics





Fathead Minnow Test Summary Sheet

Client: MABC

Start Date/Time: Feb 25/11 @ 1630

Work Order No.: n/a

Test Species: *Pimephales promelas*

Sample Information:

Sample ID: Hard Water - Nitrate
Sample Date: n/a
Date Received: n/a
Sample Volume: n/a

Dilution Water:

Type: Hard Water
Hardness (mg/L $CaCO_3$): 168
Alkalinity (mg/L $CaCO_3$): 112

Test Organism Information:

Batch No.: 022511
Source: Aquatic Biosystems
Loading Density: —
Age: Less than 24 hours

NaCl Reference Toxicant Results:

Reference Toxicant ID: PP52
Stock Solution ID: N/A
Date Initiated: Feb 25/2011
7-d EC50 (95% CL): 4.9 (4.1-5.9)
7-d IC50 (95% CL): 3.3 (2.6-4.0)

Survival:

Reference Toxicant Mean ± 2 SD: 4.9 (3.7-6.3) CV (%): 14

Biomass

Reference Toxicant Mean ± 2 SD: 4.2 (3.1-5.7) CV (%): 17

Test Results:

JAB

	Survival	Biomass
LC25 ~~%~~ (~~v/v~~) (95% CL)	n/a	
LC50 ~~%~~ (~~v/v~~) (95% CL)	454 (390 - 530)	
IC25 ~~%~~ (~~v/v~~) (95% CL)		393 (224 - 455)
IC50 ~~%~~ (~~v/v~~) (95% CL)		502 (438-546)

mg NO_3-N/L

Reviewed by: JGL

Date reviewed: March 18/11

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: MABC
Sample ID: Nitrate – Hard water
Work Order #: n/a
Start Date & Time: 25-Feb-11 1638
Stop Date & Time: 4-Mar-11
Test Species: *Pimephales promelas*

Concentration: Control	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	25.5	24.0	25.5	24.0	26.0	24.0	26.0	24.0	26.0	24.5	25.0	24.0	24.0
DO (mg/L)	7.8	7.6	6.4	7.5	5.4	8.3	6.1	9.7	6.0	8.1	5.3	8.3	5.9	5.4
pH	8.3	8.4	8.1	8.4	8.1	8.5	7.9	8.3	7.9	8.4	7.7	8.3	7.7	7.8
Cond. (µS/cm)	560	567	564	566	572	565	581	585	589	575	574	572	592	591
Initials	KJL		~		~		KJL		KJL		KJL		AW	AW

mg/L NO_3-N Concentration: 50	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	25.5	24.0	25.5	24.0	25.5	24.0	26.0	24.0	26.0	24.0	25.5	24.0	24.0
DO (mg/L)	7.7	7.6	6.4	7.5	5.5	8.3	6.3	8.0	6.0	8.3	5.3	8.3	5.2	5.5
pH	8.2	8.4	8.1	8.4	8.0	8.3	7.9	8.2	7.8	8.2	7.7	8.3	7.7	7.8
Cond. (µS/cm)	958	949	965	957	993	977	1005 KJL	962	1004	965	998	966	990	989
Initials	KJL		~		~		KJL		KJL		KJL		AW	AW

mg/L NO_3-N Concentration: 400	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	24.0	25.5	24.0	25.5	24.0	25.5	24.0	26.0	24.0	26.0	24.5	25.0	24.0	24.0
DO (mg/L)	7.9	7.6	6.5	7.5	5.5	8.3	6.6	8.0	6.3	8.3	6.5	8.3	5.8	5.8
pH	8.2	8.4	8.1	8.4	8.1	8.3	7.9	8.2	7.9	8.2	7.9	8.2	7.8	7.8
Cond. (µS/cm)	3360	3380	3350	3410	3350	3540	3470	3600	3700	3630	3640	3610	3740	3700
Initials	KJL		~		~		KJL		KJL		KJL		AW	AW

mg/L NO_3-N Concentration: 1600	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	24.0	25.5	24.0	25.5	24.0									
DO (mg/L)	8.0	7.6	6.4	7.5	5.4									
pH	8.0	7.6	8.1	8.4	8.0									
Cond. (µS/cm)	11750	11549	11570		11640									
Initials	KJL		~		~		KJL		KJL					

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*	168			
Alkalinity*	112			

* mg/L as CaCO3

Analysts: KJL, AWD, EGS
Reviewed by: JOW
Date reviewed: March 18/11

Sample Description:

Comments:

7-d Fathead Minnow Toxicity Test
Daily Survival

Client: MABC
Sample ID: Hard water – Nitrate
Work Order #: n/a

Start Date & Time: 25-Feb-11 @ 1630
Stop Date: 4-Mar-11
Test Species: *Pimephales promelas*

Concentration mg/L NO_3-N ~~(g/L NaCl)~~	Rep	Day of Test - No. of Survivors							Comments
		1	2	3	4	5	6	7	
Control	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	9	
50	A	10	10	10	10	10	10	10	
	B	10	10	9	8	8	8	8	
	C	10	10	10	10	10	6	5	
100	A	10	10	10	10	10	10	10	
	B	10	10	9	9	9	9	9	
	C	10	10	8	8	8	8	8	
200	A	10	10	9	9	9	9	8	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
400	A	10	10	8	7	7	7	7	
	B	10	9	8	8	7	7	7	
	C	10	10	6	6	6	6	6	
800	A	10	4	2	2	1	1	0	
	B	10	2	1	0	—	—	—	
	C	10	0	—	—	—	—	—	
1600	A	6	0						
	B	5	0						
	C	1	0						
	A								
	B								
	C								
	A								
	B								
	C								
	A								
	B								
	C								
Tech initials		~	~	KSL	KJL	KJL	[illegible]	[illegible]	

Comments: 400 and 800 mg/L NO_3-N sent for analysis at termination

Reviewed by: JGL

Date reviewed: March 18/11

Fathead Minnow Toxicity Test Data Sheet

Dry Weight Data

Client: MABC

Start Date: 25-Feb-11

Sample ID: Nitrate – Hard water

Termination Date: 4-Mar-11

Work Order No.: n/a

Sample ID mg/L NO_3N	Rep	Pan No. BLUE	No. alive	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	A	1	10	KJL	1334.35	1338.89	10	KJL
	B	2	10	↓	1329.65	1335.77	10	↓
	C	3	9	↓	1334.92	1340.11	9	↓
50	A	4	10	KJL	1336.42	1342.04	10	KJL
	B	5	8	↓	1334.72	1339.49	8	↓
	C	6	5	↓	1342.48	1345.71	5	↓
100	A	7	10	KJL	1343.76	1349.69	10	KJL
	B	8	9	↓	1339.06	1344.70	9	↓
	C	9	8	↓	1337.36	1342.69	8	↓
200	A	10	8	KJL	1341.26	1346.97	8	KJL
	B	11	10	KJL	1345.34	1351.65	10	↓
	C	12	10	↓	1331.17	1338.02	10	↓
400	A	13	7	KJL	1339.90	1344.44	7	KJL
	B	14	7	↓	1322.52	1326.35	7	↓
	C	15	6	↓	1336.17	1339.93	6	↓
800	A	16	0	KJL	1335.14		0	KJL
	B	17	0	↓			0	↓
	C	18	0	↓			0	↓
1600	A	19	0	↓			0	↓
	B	20	0	↓			0	↓
	C	21	0	↓			0	↓
	A							
	B							
	C							

Comments: Reweighed pans: 7 - 1349.686 KJL 12 - 1338.04

Reviewed by: JOL

Date Reviewed: March 18/11

Generated: March 17, 2009

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmenta**

Analysis ID:	11-6074-1062	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	08 Mar-11 16:06	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	00-0309-1414	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	25 Feb-11 16:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod Hard Synthetic Water~~ JAB
Ending Date:	04 Mar-11 16:30	**Species:**	Pimephales promelas	**Brine:**	Hard Water
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	02-8802-9884	**Code:**	HW(2)-NO3	**Client:**	BCMA
Sample Date:	25 Feb-11	**Material:**	NO3	**Project:**	
Receive Date:	25 Feb-11	**Source:**	BCMA		
Sample Age:	16h	**Station:**			

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0.03333	10.34%	2.657	0.03341	454.3	389.5	529.9

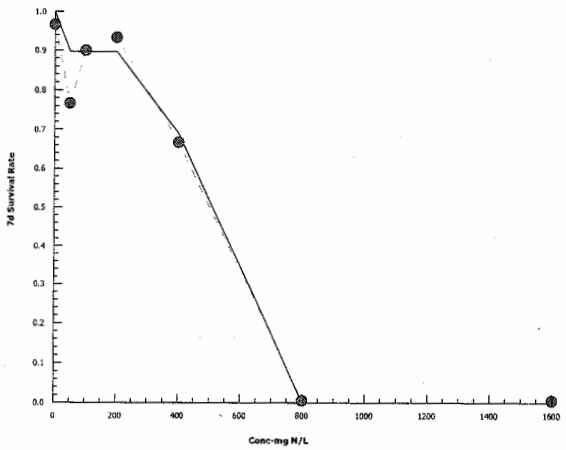
7d Survival Rate Summary — **Calculated Variate(A/B)**

Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	3	0.9667	0.9	1	0.03333	0.05773	5.97%	0.0%	29	30
50		3	0.7667	0.5	1	0.1453	0.2517	32.83%	20.69%	23	30
100		3	0.9	0.8	1	0.05774	0.1	11.11%	6.9%	27	30
200		3	0.9333	0.8	1	0.06667	0.1155	12.37%	3.45%	28	30
400		3	0.6667	0.6	0.7	0.03333	0.05773	8.66%	31.03%	20	30
800		3	0	0	0	0	0		100.0%	0	30
1600		3	0	0	0	0	0		100.0%	0	30

7d Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	1	1	0.9
50		1	0.8	0.5
100		1	0.9	0.8
200		0.8	1	1
400		0.7	0.7	0.6
800		0	0	0
1600		0	0	0

Graphics



CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	16-4854-6711	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	08 Mar-11 16:09	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	00-0309-1414	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	25 Feb-11 16:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod Hard Synthetic Water~~ Hard Water JAB
Ending Date:	04 Mar-11 16:30	**Species:**	Pimephales promelas	**Brine:**	
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	02-8802-9884	**Code:**	HW(2)-NO3	**Client:**	BCMA
Sample Date:	25 Feb-11	**Material:**	NO3	**Project:**	
Receive Date:	25 Feb-11	**Source:**	BCMA		
Sample Age:	16h	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	200	400	282.8	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		50	0.02616	0.0785	Non-Significant Effect
		100	0.306	0.6120	Non-Significant Effect
		200	0.5	0.5000	Non-Significant Effect
		400	0.00279	0.0112	Significant Effect
		800	0	<0.0001	Significant Effect
		1600	0	<0.0001	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	29	1	30
50		23	7	30
100		27	3	30
200		28	2	30
400		20	10	30
800		0	30	30
1600		0	30	30

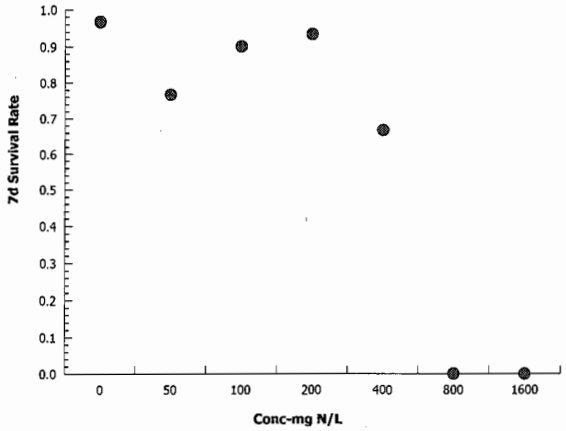
7d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	1	1	0.9
50		1	0.8	0.5
100		1	0.9	0.8
200		0.8	1	1
400		0.7	0.7	0.6
800		0	0	0
1600		0	0	0

Fathead Minnow 7-d Larval Survival and Growth Test **Nautilus Environmental**

Analysis ID:	16-4854-6711	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	08 Mar-11 16:09	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmenta**

Analysis ID:	18-3349-9585	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	08 Mar-11 16:08	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	00-0309-1414	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	25 Feb-11 16:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod-Hard Synthetic Water~~ JAB
Ending Date:	04 Mar-11 16:30	**Species:**	Pimephales promelas	**Brine:**	Hard Water
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	02-8802-9884	**Code:**	HW(2)-NO3	**Client:**	BCMA
Sample Date:	25 Feb-11	**Material:**	NO3	**Project:**	
Receive Date:	25 Feb-11	**Source:**	BCMA		
Sample Age:	16h	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1363169606	200	Yes	Two-Point Interpolation

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	229	N/A	251.7
IC10	262.1	N/A	318.8
IC15	300	164	404.1
IC20	343.3	191.2	472.8
IC25	392.9	224.1	455.2
IC40	457.2	387.6	505.3
IC50	501.9	437.8	545.8

Mean Dry Biomass-mg Summary — **Calculated Variate**

Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	3	0.5283	0.454	0.612	0.04585	0.07941	15.03%	0.0%
50		3	0.455	0.323	0.565	0.07072	0.1225	26.92%	13.88%
100		3	0.5633	0.533	0.593	0.01732	0.03	5.33%	-6.62%
200		3	0.629	0.571	0.685	0.03292	0.05703	9.07%	-19.05%
400		3	0.4043	0.376	0.454	0.02491	0.04315	10.67%	23.47%
800		3	0	0	0	0	0		100.0%
1600		3	0	0	0	0	0		100.0%

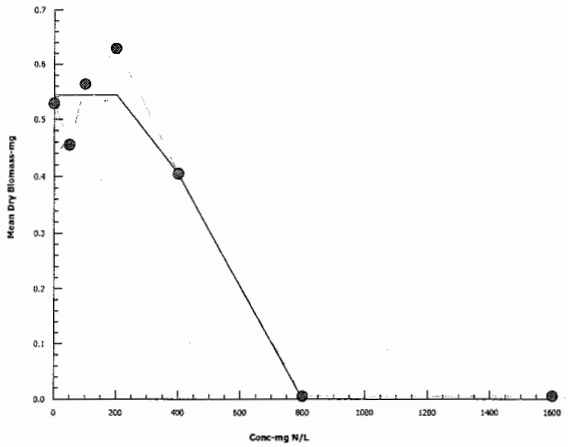
Mean Dry Biomass-mg Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	0.454	0.612	0.519
50		0.565	0.477	0.323
100		0.593	0.564	0.533
200		0.571	0.631	0.685
400		0.454	0.383	0.376
800		0	0	0
1600		0	0	0

Fathead Minnow 7-d Larval Survival and Growth Test **Nautilus Environmenta**

Analysis ID:	18-3349-9585	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	08 Mar-11 16:08	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	14-2974-8702	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	08 Mar-11 16:08	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	00-0309-1414	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	25 Feb-11 16:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Mod-Hard-Synthetic Water~~ JAB
Ending Date:	04 Mar-11 16:30	**Species:**	Pimephales promelas	**Brine:**	Hard Water
Duration:	7d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	02-8802-9884	**Code:**	HW(2)-NO3	**Client:**	BCMA
Sample Date:	25 Feb-11	**Material:**	NO3	**Project:**	
Receive Date:	25 Feb-11	**Source:**	BCMA		
Sample Age:	16h	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	400	800	565.7		28.2%

Dunnett's Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		50	1.215	2.466	4	0.1488	0.3047	Non-Significant Effect
		100	-0.5798	2.466	4	0.1488	0.9322	Non-Significant Effect
		200	-1.668	2.466	4	0.1488	0.9947	Non-Significant Effect
		400	2.054	2.466	4	0.1488	0.0955	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.09405756	0.02351439	4	4.303	0.0279	Significant Effect
Error	0.05464726	0.005464726	10			
Total	0.1487048	0.02897912	14			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	3.743	13.28	0.4419	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9891	0.8328	0.9989	Normal Distribution

Mean Dry Biomass-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	3	0.5283	0.4981	0.5585	0.454	0.612	0.04585	0.07941	15.03%	0.0%
50		3	0.455	0.4084	0.5016	0.323	0.565	0.07072	0.1225	26.92%	13.88%
100		3	0.5633	0.5519	0.5747	0.533	0.593	0.01732	0.03	5.33%	-6.62%
200		3	0.629	0.6073	0.6507	0.571	0.685	0.03292	0.05703	9.07%	-19.05%
400		3	0.4043	0.3879	0.4207	0.376	0.454	0.02491	0.04315	10.67%	23.47%
800		3	0	0	0	0	0	0	0		100.0%
1600		3	0	0	0	0	0	0	0		100.0%

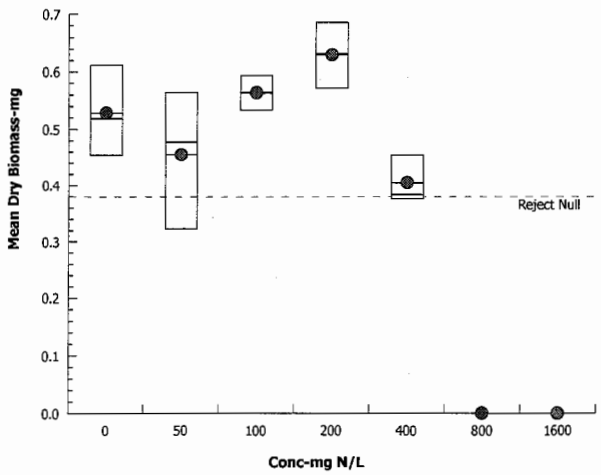
Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

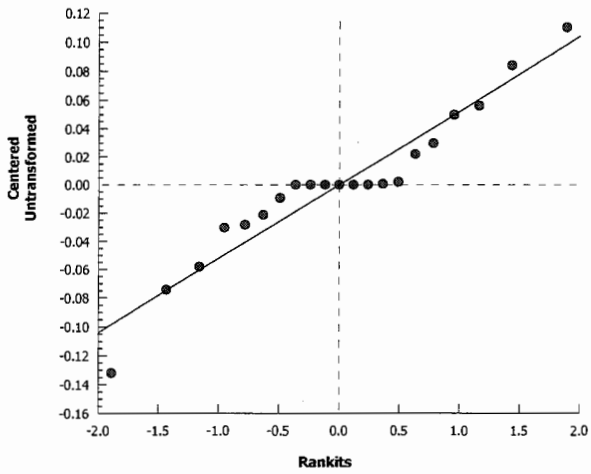
Analysis ID:	14-2974-8702	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	08 Mar-11 16:08	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Biomass-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3
0	Negative Control	0.454	0.612	0.519
50		0.565	0.477	0.323
100		0.593	0.564	0.533
200		0.571	0.631	0.685
400		0.454	0.383	0.376
800		0	0	0
1600		0	0	0

Graphics





APPENDIX D – *Ceriodaphnia dubia* tests

Ceriodaphnia dubia Summary Sheet

Client: MABC
Work Order No.: n/a

Start Date/Time: Sept 23/10 @ 1445
Set up by: JJT

Sample Information:

Sample ID: Softwater - Nitrate
Sample Date: n/a
Date Received: n/a
Sample Volume: n/a

Test Organism Information:

Broodstock No.: 091610
Age of young (Day 0): <24-h (within 12-h)
Avg No. young in first 3 broods of previous 7 d: 19
Mortality (%) in previous 7 d: 0
Individual female # used ≥8 young on test day: 1, 2, 4, 5, 8, 11, 12, 13, 16, 17

NaCl Reference Toxicant Results:

Reference Toxicant ID: Cd58
Stock Solution ID: 09NaCl05
Date Initiated: Sept 28/10

7-d LC50 (95% CL): 1.98 (1.74 - 2.26) g/L NaCL
7-d IC50 (95% CL): 1.24 (~~1.15~~ 1.14 - 1.35) g/L NaCL
JAB

7-d LC50 Reference Toxicant Mean (2SD Range): 1.86 (1.46 - 2.36) g/L NaCL CV (%): 12.9
7-d IC50 Reference Toxicant Mean (2SD Range): 1.15 (0.88 - 1.50) g/L NaCL CV (%): 14.2

Test Results:

mg/L NO_3-N	Survival	Reproduction
LC50 %(v/v) (95% CL)	44.2 (30.4 - 63.8)	
IC25 %(v/v) (95% CL)		11.3 (3.3 - 21.2)
IC50 %(v/v) (95% CL)		25.3 (17.8 - 32.1)

JAB

Reviewed by: JGh

Date reviewed: March 18/11

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: In-house
Sample ID: Soft Water-Nitrate
Work Order #: N/A

Start Date & Time: Sept 23/10 @1445h
Stop Date: Sept 30/10 @ 1500h
Test Species: *Ceriodaphnia dubia*

Concentration	Days													
	0	1		2		3		4		5		6		7
Control	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	25.0	26.0	25.0	26.0	25.5	26.0	25.5	26.0	25.5	26.0	25.0	26.0	25.5	26.0
DO (mg/L)	7.9	7.7	8.1	7.6	7.6	7.5	7.8	7.2	7.8	7.0	8.0	7.7	7.9	6.8
pH	7.7	7.5	7.8	7.4	7.7	7.4	7.9	7.4	7.7	7.5	7.6	7.8	7.6	7.4
Cond. (µS/cm)	156	155		156		155		155		158		163		167
Initials	JJT	JJT		JJT		JJT		JJT		JJT		~		~

Concentration	Days													
	0	1		2		3		4		5		6		7
10 mg/L N	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	25.0	26.0	25.0	26.0	25.5	26.0	25.0	26.0	25.5	26.0	25.0	26.0	25.5	26.0
DO (mg/L)	7.9	7.7	8.1	7.6	7.7	7.6	7.9	7.2	7.8	6.8	8.0	7.7	7.9	6.9
pH	7.5	7.5	7.7	7.5	7.6	7.5	7.7	7.4	7.6	7.4	7.6	7.3	7.6	7.5
Cond. (µS/cm)	231	231		230		229		252		237		255		253
Initials	JJT	JJT		JJT		JJT		JJT		JJT		~		~

Concentration	Days													
	0	1		2		3		4		5		6		7
80 mg/L N	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	25.0	26.0	25.0	26.0	25.5	26.0	25.5	26.0	25.5	26.0	25.0	26.0	25.5	26.0
DO (mg/L)	7.9	7.7	8.1	7.6	7.7	7.8	7.9	7.2	7.9	7.0	8.1	7.6	7.9	6.9
pH	7.5	7.5	7.7	7.5	7.6	7.5	7.6	7.3	7.6	7.4	7.5	7.3	7.6	7.7
Cond. (µS/cm)	760	763		751		751		762		803		835		810
Initials	JJT	JJT		JJT		JJT		JJT		JJT		~		~

Concentration	Days													
	0	1		2		3		4		5		6		7
640 mg/L N	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	25.0	26.0	25.5											
DO (mg/L)	7.9	7.5	8.1											
pH	7.4	7.4	7.5											
Cond. (µS/cm)	4900	4910												
Initials	JJT	JJT												

	Control			
Hardness*	44			
Alkalinity*	30			

* mg/L as CaCO3

Analysts: JJT

Reviewed by: JGL
Date reviewed: March 18/11

Sample Description:

Comments: **Broodboard Used:** 091610

Chronic Freshwater Toxicity Test
C. dubia Reproduction Data

Client: In-house
Sample ID: Soft Water-Nitrate
Work Order: N/A

Start Date & Time: Sept 23/10 @1445h
Stop Date & Time: Sept 30/10 @ 1500h
Set up by: JJT

Days	Concentration: Control										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
4	✓	4	4	4	4	✓	4	3	✓	✓	JJT
5	4	4	10	✓	6	3	7	7	5	4	JJT
6	9	5	~~10~~	9	6	6	10	9	6	7	~
7	9	✓	7	4	✓	7	✓	✓	8	5	~
8											
Total	22	13	21	17	16	16	21	19	19	16	~

Days	Concentration: 10 mg/L N										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
3	✓	✓	X	✓	✓	✓	✓	✓	✓	✓	JJT
4	✓	✓	|	3	3	✓	4	✓	3	✓	JJT
5	5	4	|	✓	✓	3	✓	✓	7	2	JJT
6	~~5~~	7	|	5	5	6	7	4	8	7	~
7	6	7	|	9	7	7	7	7	7	7	~
8											
Total	11	18	0X	17	15	16	18	11	0	16	~

Days	Concentration: 20										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
3	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	JJT
4	4	✓	✓	3	|	✓	✓	✓	✓	✓	JJT
5	✓	✓	5	3	|	3	4	✓	3	✓	JJT
6	~~8~~	~~4~~	✓	~~3~~	|	6	~~7~~	~~7~~	✓	~~6~~	~
7	6	~~5~~	~~7~~	~~7~~	|	6	6	5	6	6	~
8	~~7~~	~~4~~	~~5~~	~							
Total	18	9	12	13	0X	15	17	5	9	12	~

Days	Concentration: 40										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
3	X	✓	✓	X	✓	✓	X	✓	✓	✓	JJT
4		✓	✓	|	✓	✓		✓	✓	✓	JJT
5		~~2~~	✓	|	2	2		✓	✓	✓	JJT
6		~~6~~	~~4~~	|	5	5		✓	5	5	~
7		4	5	|	✓	✓		4	✓	6	~
8											
Total	0X	6	11	0+	7	7	0X	4	5	11	~

Days	Concentration: 80										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	✓	✓	✓	✓	X	✓	X	X	✓	JJT
3	X	X	✓	X	✓		X			X	JJT
4			✓		✓						JJT
5			✓		✓						JJT
6			✓		✓						~
7			2		3						~
8											
Total	0	0	2	0	3	0	—	—	—	0	~

Days	Concentration: 160										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	✓	X	X	✓	X	✓	✓	X	X	JJT
3	X	X			X		X	X			JJT
4											
5											
6											
7											
8											
Total	X	—	—	—	—	—	—	—	—	—	JJT

Days	Concentration: 320										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	X	X	X	✓	X	X	✓	X	✓	✓	JJT
3				X			X		X	X	~
4											
5											
6											
7											
8											
Total	X	—	—	—	—	—	—	—	—	—	JJT

Days	Concentration: 640										
	A	B	C	D	E	F	G	H	I	J	Init
1	X	—	—	—	—	—	—	—	—	—	JJT
2											
3											
4											
5											
6											
7											
8											
Total	X	—	—	—	—	—	—	—	—	—	JJT

Days	Concentration:										
	A	B	C	D	E	F	G	H	I	J	Init
1											
2											
3											
4											
5											
6											
7											
8											
Total											

Notes: X = mortality.

Sample Description: $NaNO_3$

Comments: Total # Young only based on the first 3 Broods. Fourth and subsequent broods not included in total count.

Reviewed by: JGh

Date reviewed: March 15/11

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	15-4067-2293	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Oct-10 14:01	**Analysis:**	Linear Regression (MLE)	**Official Results:**	Yes
Batch ID:	18-4841-4812	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	23 Sep-10	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	Soft Water
Ending Date:	28 Sep-10	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	5d 0h	**Source:**		**Age:**	
Sample ID:	19-8232-7672	**Code:**	C-SW-NO3	**Client:**	BCMA
Sample Date:	01 Oct-10 11:49	**Material:**	NO3	**Project:**	
Receive Date:	01 Oct-10 11:49	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Regression Options

Model Function	Threshold Option	Threshold	Optimized	Pooled	Het Corr	Weighted
Log-Normal [NED=A+B*log(X)]	Control Threshold	0	Yes	Yes	No	Yes

Regression Summary

Iters	LL	AICc	Mu	Sigma	G Stat	Chi-Sq	Critical	P-Value	Decision(5%)
5	-19.351	46.703	0.0037292	0.32992	0.17549	3.8854	9.4877	0.4217	Non-Significant Heterogeneity

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC5	12.682	4.598	20.371
EC10	16.713	7.2283	25.31
EC15	20.133	9.7499	29.477
EC20	23.344	12.305	33.443
EC25	26.505	14.95	37.453
EC40	36.498	23.703	51.329
EC50	44.243	30.396	63.84

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(5%)
Slope	3.0311	0.64785	1.7613	4.3009	4.6787	0.0095	Significant Parameter
Intercept	0.011304	1.0956	-2.1361	2.1587	0.010317	0.9923	Non-Significant Parameter

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.77	1.8871	0.1519	No Outliers Detected
Distribution	Shapiro-Wilk Normality	0.98346		0.9674	Normal Distribution

7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
10		10	0.9	0	1	0.057735	0.31623	35.14%	10.0%	9	10
20		10	0.9	0	1	0.057735	0.31623	35.14%	10.0%	9	10
40		10	0.7	0	1	0.088192	0.48305	69.01%	30.0%	7	10
80		10	0.2	0	1	0.07698	0.42164	210.82%	80.0%	2	10
160		10	0	0	0	0	0		100.0%	0	10
320		10	0	0	0	0	0		100.0%	0	10

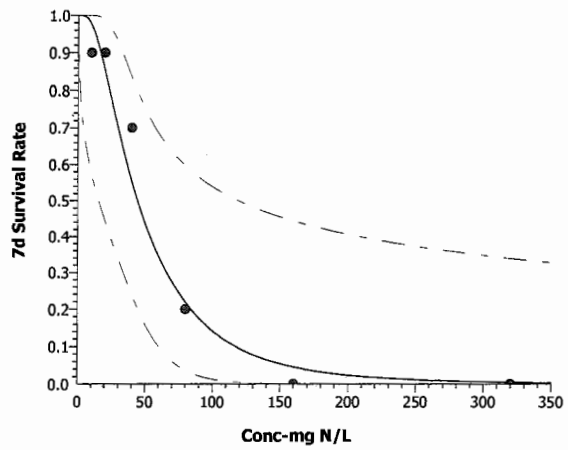
Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

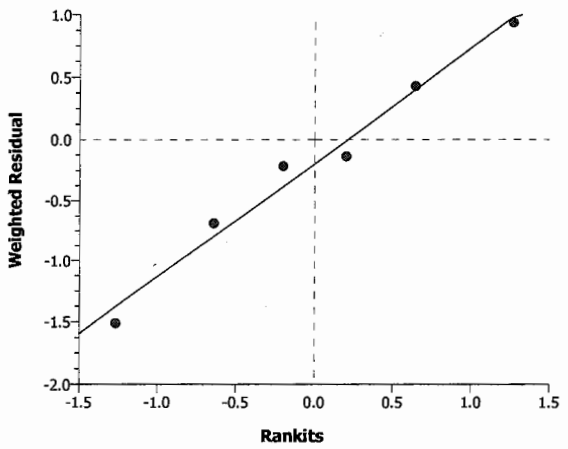
Analysis ID:	15-4067-2293	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Oct-10 14:01	**Analysis:**	Linear Regression (MLE)	**Official Results:**	Yes

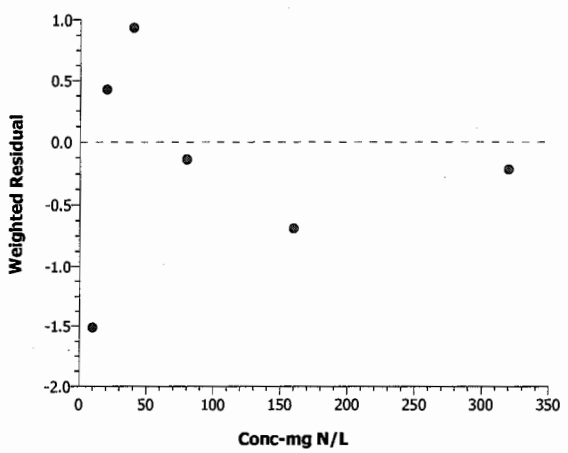
7d Survival Rate Detail

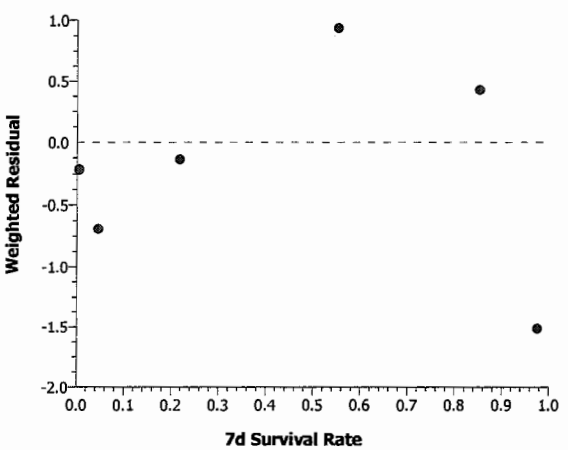
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
10		1	1	0	1	1	1	1	1	1	1
20		1	1	1	1	0	1	1	1	1	1
40		0	1	1	0	1	1	0	1	1	1
80		0	0	1	0	1	0	0	0	0	0
160		0	0	0	0	0	0	0	0	0	0
320		0	0	0	0	0	0	0	0	0	0

Graphics









CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	06-4762-3731	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:22	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	18-4841-4812	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	23 Sep-10	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	Soft Water
Ending Date:	28 Sep-10	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	5d 0h	**Source:**		**Age:**	
Sample ID:	19-8232-7672	**Code:**	C-SW-NO3	**Client:**	BCMA
Sample Date:	01 Oct-10 11:49	**Material:**	NO3	**Project:**	
Receive Date:	01 Oct-10 11:49	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	40	80	56.57	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		10	0.5	1.0000	Non-Significant Effect
		20	0.5	1.0000	Non-Significant Effect
		40	0.1053	0.3158	Non-Significant Effect
		80	0.0003572	0.0014	Significant Effect
		160	5.413E-06	<0.0001	Significant Effect
		320	5.413E-06	<0.0001	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
10		9	1	10
20		9	1	10
40		7	3	10
80		2	8	10
160		0	10	10
320		0	10	10

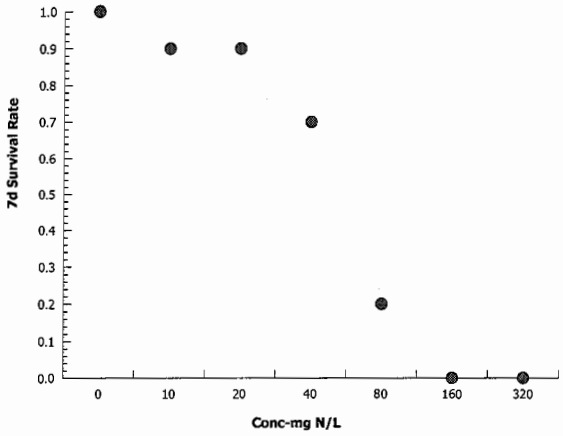
7d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
10		1	1	0	1	1	1	1	1	1	1
20		1	1	1	1	0	1	1	1	1	1
40		0	1	1	0	1	1	0	1	1	1
80		0	0	1	0	1	0	0	0	0	0
160		0	0	0	0	0	0	0	0	0	0
320		0	0	0	0	0	0	0	0	0	0

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	06-4762-3731	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:22	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	05-4337-3164	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Oct-10 14:01	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	18-4841-4812	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	23 Sep-10	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	Soft Water
Ending Date:	28 Sep-10	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	5d 0h	**Source:**		**Age:**	
Sample ID:	19-8232-7672	**Code:**	C-SW-NO3	**Client:**	BCMA
Sample Date:	01 Oct-10 11:49	**Material:**	NO3	**Project:**	
Receive Date:	01 Oct-10 11:49	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	0.71519	0.33856	6.495
IC10	1.9419	0.79175	11.739
IC15	4.0459	1.3984	14.145
IC20	7.6547	2.2104	18.817
IC25	11.252	3.2973	21.171
IC40	20.482	9.3064	26.183
IC50	25.346	17.823	32.098

Reproduction Summary

			Calculated Variate						
Conc-mg N/	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**Diff%**
0	Negative Control	10	18	13	22	0.52352	2.8674	15.93%	0.0%
10		10	14	0	18	1.0184	5.5777	39.84%	22.22%
20		10	11	0	18	1.0037	5.4975	49.98%	38.89%
40		10	5.1	0	11	0.76231	4.1753	81.87%	71.67%
80		10	0.5	0	3	0.1972	1.0801	216.02%	97.22%
160		10	0	0	0	0	0		100.0%
320		10	0	0	0	0	0		100.0%

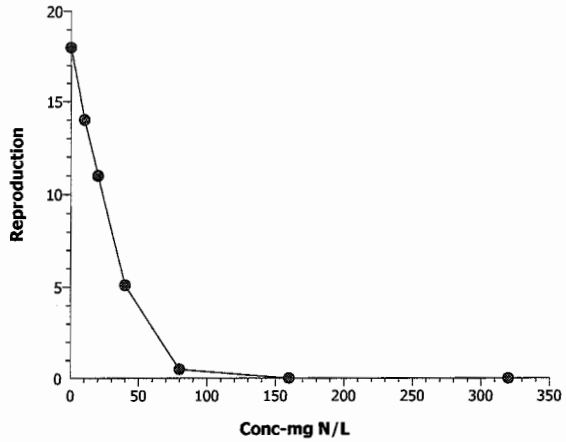
Reproduction Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	22	13	21	17	16	16	21	19	19	16
10		11	18	0	17	15	16	18	11	18	16
20		18	9	12	13	0	15	17	5	9	12
40		0	6	11	0	7	7	0	4	5	11
80		0	0	2	0	3	0	0	0	0	0
160		0	0	0	0	0	0	0	0	0	0
320		0	0	0	0	0	0	0	0	0	0

Ceriodaphnia 7-d Survival and Reproduction Test **Nautilus Environmental**

Analysis ID:	05-4337-3164	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Oct-10 14:01	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	08-1096-1949	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	17 Mar-11 15:34	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	18-4841-4812	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	23 Sep-10	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	Soft Water
Ending Date:	28 Sep-10	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	5d 0h	**Source:**		**Age:**	
Sample ID:	19-8232-7672	**Code:**	C-SW-NO3	**Client:**	BCMA
Sample Date:	01 Oct-10 11:49	**Material:**	NO3	**Project:**	
Receive Date:	01 Oct-10 11:49	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	10	20	14.14		23.2%

Steel Many-One Rank Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	Ties	P-Value	Decision(α:5%)
Negative Control		10	80.5	76	18	2	0.0973	Non-Significant Effect
		20*	66	76	18	2	0.0059	Significant Effect
		40*	55	76	18	0	0.0003	Significant Effect
		80*	55	76	18	0	0.0003	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	1948.68	487.17	4	27.63	<0.0001	Significant Effect
Error	793.4	17.63111	45			
Total	2742.08	504.8011	49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	20.53	13.28	0.0004	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.9263	0.9367	0.0040	Non-normal Distribution

Reproduction Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	10	18	16.91	19.09	13	22	0.9068	2.867	15.93%	0.0%
10		10	14	11.88	16.12	0	18	1.764	5.578	39.84%	22.22%
20		10	11	8.909	13.09	0	18	1.738	5.497	49.98%	38.89%
40		10	5.1	3.512	6.688	0	11	1.32	4.175	81.87%	71.67%
80		10	0.5	0.08914	0.9109	0	3	0.3416	1.08	216.0%	97.22%
160		10	0	0	0	0	0	0	0		100.0%
320		10	0	0	0	0	0	0	0		100.0%

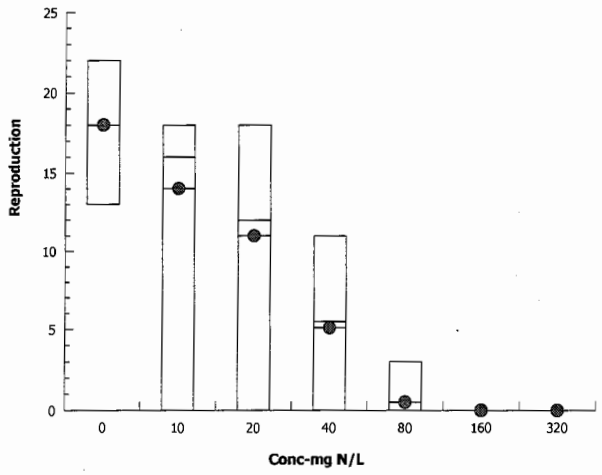
Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

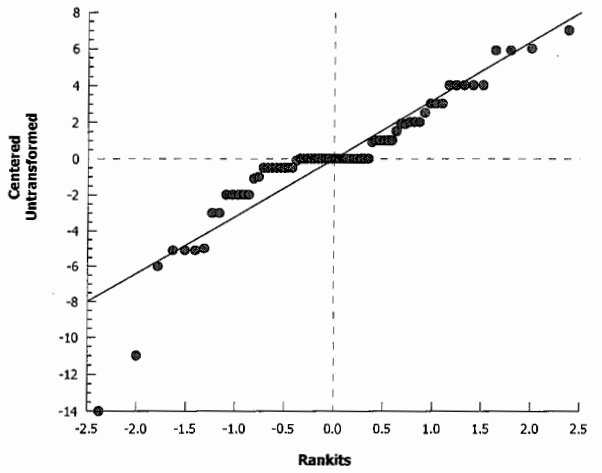
Analysis ID:	08-1096-1949	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	17 Mar-11 15:34	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	22	13	21	17	16	16	21	19	19	16
10		11	18	0	17	15	16	18	11	18	16
20		18	9	12	13	0	15	17	5	9	12
40		0	6	11	0	7	7	0	4	5	11
80		0	0	2	0	3	0	0	0	0	0
160		0	0	0	0	0	0	0	0	0	0
320		0	0	0	0	0	0	0	0	0	0

Graphics





Dilution Water Logsheet

Batch #: 092110 Water Type: Soft Water

Water Quality Date	Temp. °C	pH	D.O. mg/L	Conductivity µS	Initials
Sept 22/10	25.5	7.8	7.8	156	JJ7
Sept 23/10	25.0	7.7	7.9	156	JJ7
Sept 24/10	25.0	7.8	8.1	155	JJ7
Sept 25/10	25.5	7.7	7.6	156	JJ7
Sept 26/10	25.5	7.9	7.8	155	JJ7
Sept 27/10	25.5	7.7	7.8	155	JJ7
Sept 29/10	25.5	7.6	7.9	163	JJ7

Date Prepared	Sept 21/10	Chemicals Used	~~(Grams)~~ JJ7 (mg)
Amount Prepared	10L		
Preparation Water Used	DI	$NaHCO_3$	480
		$MgSO_4 \cdot 7H_2O$ JJ7	300
Hardness (mg/L $CaCO_3$)	44	$CaSO_4 \cdot 2H_2O$	300
Alkalinity (mg/L $CaCO_3$)	30	KCL	20

Ceriodaphnia dubia Summary Sheet

Client: MABC
Work Order No.: n/a

Start Date/Time: Feb 17/11 @ 1130h
Set up by: KLB

Sample Information:

Sample ID: Moderately Hard Water - Nitrate
Sample Date: n/a
Date Received: n/a
Sample Volume: n/a

Test Organism Information:

Broodstock No.: 020911
Age of young (Day 0): <24-h (within 12-h)
Avg No. young in first 3 broods of previous 7 d: 27
Mortality (%) in previous 7 d: 0
Individual female # used ≥8 young on test day: 21, 22, 24, 25, 26, 27, 28, 29, 30, 31

NaCl Reference Toxicant Results:

Reference Toxicant ID: CdG4
Stock Solution ID: 10Na01
Date Initiated: Feb 22/11

7-d LC50 (95% CL): 1.85 (1.53-2.23) g/L NaCL
7-d IC50 (95% CL): ~~1.27~~ (1.01 - 1.41) g/L NaCL
1.20 JAB

7-d LC50 Reference Toxicant Mean (2SD Range): 1.8 (1.4 - 2.3) g/L NaCL CV (%): 12.2
7-d IC50 Reference Toxicant Mean (2SD Range): 1.1 (0.9 - 1.4) g/L NaCL CV (%): 11.1

Test Results:

mg NO_3-N/L	Survival	Reproduction
LC50 %(v/v) (95% CL)	118 (108 - 128)	
IC25 %(v/v) (95% CL)		23.9 (9.8 - 31.2)
IC50 %(v/v) (95% CL)		43.5 (33.8 - 52.1)

JAB

Reviewed by: JGL
Date reviewed: March 18/11

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: In-house
Sample ID: Moderately Hard Water - Nitrate
Work Order #: N/A
Start Date & Time: Feb 17/11 @ 1130h
Stop Date: Feb 23/11 @ 1130h
Test Species: *Ceriodaphnia dubia*

mg/L N

Concentration: Control	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	24.5	24.0	25.0	25.0	24.5	25.5	24.0	24.0	24.5	24.0	25.0		
DO (mg/L)	8.4	7.4	8.3	7.2	8.1	6.9	8.1	7.1	8.3	7.0	8.5	6.7		
pH	7.9	7.9	8.1	7.9	8.2	7.9	7.9	7.9	8.1	7.8	8.1	7.8		
Cond. (µS/cm)	356	344		352		356		348		359		356		
Initials	KLB	KLB		~		~		KLB		KLB		KLB		

Concentration: 5	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	25.0	24.0	25.0	25.5	24.0	25.6	24.0	24.0	24.5	24.0	25.0		
DO (mg/L)	8.4	7.4	8.3	7.1	8.1	7.0	8.1	7.1	8.2	7.3	8.4	7.0		
pH	7.9	7.9	8.0	7.9	8.1	7.9	8.0	7.9	7.9	7.8	8.0	7.8		
Cond. (µS/cm)	392	383		386		389		376		398		394		
Initials	KLB	KLB		~		~		KLB		KLB		KLB		

Concentration: 40	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	25.0	24.0	25.0	25.0	24.5	25.5	24.5	24.0	24.5	24.0	25.0		
DO (mg/L)	8.4	7.4	8.3	6.9	8.1	7.0	8.1	7.2	8.1	7.3	8.4	6.7		
pH	7.9	7.9	7.9	7.9	8.1	7.9	8.0	7.9	8.0	7.9	8.0	7.8		
Cond. (µS/cm)	677	644		649		653		636		671		653		
Initials	KLB	KLB		~		~		KLB		KLB		KLB		

Concentration: 320	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	24.5	24.0	25.0	25.0	24.5	25.5	24.5	24.0	24.5	24.0	25.0		
DO (mg/L)	8.4	7.4	8.3	6.3	8.1	6.9	8.1	7.4	8.1	7.3	8.4	6.6		
pH	7.9	7.9	7.9	7.9	8.1	7.9	7.9	7.9	7.9	7.8	8.0	7.8		
Cond. (µS/cm)	2730	2650		2650		2650		2780		2930		2610		
Initials	KLB	KLB		~		~		KLB		KLB		KLB		

	Control			
Hardness*	98			
Alkalinity*	62			

* mg/L as CaCO3

Analysts: KLB/AWD
Reviewed by: JGh
Date reviewed: March 18/11

Sample Description: ① see following page

Comments: Broodboard Used: 020911

Chronic Freshwater Toxicity Test
C. dubia Reproduction Data

Client: In-house
Sample ID: Moderately Hard Water-Nitrate
Work Order: N/A

Start Date & Time: Feb17/11 @ 1130h
Stop Date & Time: Feb23/11 @ 1130h
Set up by: KLB

KLB
~~%~~ mg/L N

Days	Concentration: Control										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
4	2	3	4	4	4	4	4	4	4	4	KLB
5	7	8	8	8	9	8	9	10	8	8	KLB
6	13	11	12	✓	13	11	11	14	10	12	KLB
7											
8											
Total	22	22	24	12	26	23	24	28	22	24	KLB

Days	Concentration: 5										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓		✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
4	3	4	4	3	3	4	✓	4	4	4	KLB
5	7	9	9	8	✓	9	7	9	9	9	KLB
6	✓	11	11	11	6	10	11	14	12	9	KLB
7											
8											
Total	10	24	24	22	9	23	18	27	25	22	KLB

Days	Concentration: 10										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
4	✓	4	4	4	2	3	4	4	4	3	KLB
5	8	5	8	9	8	8	8	9	8	8	KLB
6	12	✓	10	11	11	11	11	12	✓	10	KLB
7											
8											
Total	20	9	22	24	21	22	23	25	12	21	KLB

Days	Concentration: 20										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
4	4	4	2	3	3	2	4	4	2	2	KLB
5	6	8	7	8	7	8	8	8	8	7	KLB
6	9	9	9	✓	10	8	12	12	12	✓	KLB
7											
8											
Total	19	21	18	11	20	18	24	24	22	9	KLB

Days	Concentration: 40										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
4	3	2	2	2	2	3	2	2	3	2	KLB
5	6	6	6	6	7	6	6	7	4	5	KLB
6	6	✓	9	✓	10	8	9	✓	✓	✓	KLB
7											
8											
Total	15	8	17	8	19	17	17	9	7	7	KLB

Days	Concentration: 80										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
4	2	✓	✓	✓	✓	✓	✓	✓	3	✓	KLB
5	3	2	2	2	✓	2	3	✓	3	✓	KLB
6	✓	✓	7	✓	✓	✓	7	✓	✓	✓	KLB
7											
8											
Total	5	2	9	2	0	2	10	0	6	0	KLB

Days	Concentration: 160										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
4	X	✓		✓	✓	✓	✓	✓	✓	✓	KLB
5	|	X	X	X	✓	X	X	X	✓	X	KLB
6	|	|	|	|	✓	|	|	|	X	|	KLB
7	|	|	|	|	|	|	|	|	|	|	
8	|	|	|	|	|	|	|	|	|	|	
Total	0*	0*	0*	0*	0	0*	0*	0*	0*	0*	KLB

Days	Concentration: 320										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
3	|	✓	✓	✓	X	X	✓	✓	✓	✓	~
4	X	X	X	3	|	|	X	✓	✓	✓	KLB
5	|	|	|	✓	|	|	|	X	X	X	KLB
6	|	|	|	✓	|	|	|	|	|	|	KLB
7	|	|	|	|	|	|	|	|	|	|	
8	|	|	|	|	|	|	|	|	|	|	
Total	0*	0*	0*	3	0*	0*	0*	0*	0*	0*	KLB

Days	Concentration:										
	A	B	C	D	E	F	G	H	I	J	Init
1	~~✓~~	~~✓~~	~~✓~~	~~✓~~	~~✓~~ KLB						
2											
3											
4											
5											
6											
7											
8											
Total											

Notes: X = mortality.

Sample Description: 1) Moderately Hard Water-Nitrate (used $NaNO_3$ stock solution)
Comments: Total # Young only based on the first ~~3~~ Broods. Fourth and subsequent broods not included in total count.

Reviewed by: JGh
Date reviewed: March 15/11

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmenta**

Analysis ID:	13-1326-6015	**Endpoint:**	6d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 9:42	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	13-4735-4001	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	17 Feb-11 11:30	**Protocol:**	EC/EPS 1/RM/21	**Diluent:** MHW	
Ending Date:	23 Feb-11 11:30	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 0h	**Source:**		**Age:**	
Sample ID:	20-7465-4729	**Code:**	Cer-NO3-MHW	**Client:**	BCMA
Sample Date:	17 Feb-11	**Material:**	NO3	**Project:**	
Receive Date:	17 Feb-11	**Source:**	BCMA		
Sample Age:	11h	**Station:**			

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	10.00%	2.07	0.01763	117.6	108.4	127.5

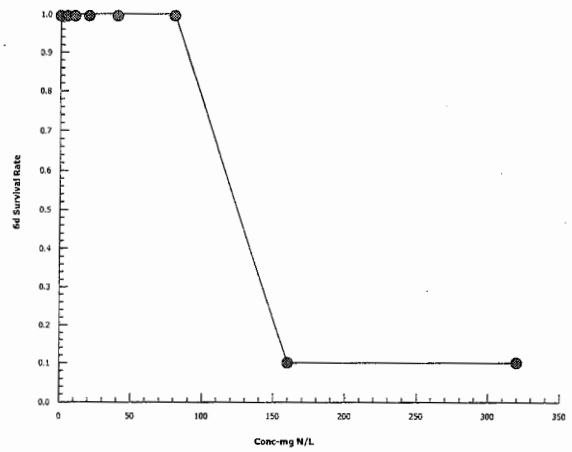
6d Survival Rate Summary — Calculated Variate(A/B)

Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
5		10	1	1	1	0	0	0.0%	0.0%	10	10
10		10	1	1	1	0	0	0.0%	0.0%	10	10
20		10	1	1	1	0	0	0.0%	0.0%	10	10
40		10	1	1	1	0	0	0.0%	0.0%	10	10
80		10	1	1	1	0	0	0.0%	0.0%	10	10
160		10	0.1	0	1	0.1	0.3162	316.2%	90.0%	1	10
320		10	0.1	0	1	0.1	0.3162	316.2%	90.0%	1	10

6d Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
5		1	1	1	1	1	1	1	1	1	1
10		1	1	1	1	1	1	1	1	1	1
20		1	1	1	1	1	1	1	1	1	1
40		1	1	1	1	1	1	1	1	1	1
80		1	1	1	1	1	1	1	1	1	1
160		0	0	0	0	1	0	0	0	0	0
320		0	0	0	1	0	0	0	0	0	0

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmenta**

Analysis ID:	14-4505-8700	**Endpoint:**	6d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 9:44	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	13-4735-4001	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	17 Feb-11 11:30	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	MHW
Ending Date:	23 Feb-11 11:30	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 0h	**Source:**		**Age:**	
Sample ID:	20-7465-4729	**Code:**	Cer-NO3-MHW	**Client:**	BCMA
Sample Date:	17 Feb-11	**Material:**	NO3	**Project:**	
Receive Date:	17 Feb-11	**Source:**	BCMA		
Sample Age:	11h	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	80	160	113.1	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		5	1	1.0000	Non-Significant Effect
		10	1	1.0000	Non-Significant Effect
		20	1	1.0000	Non-Significant Effect
		40	1	1.0000	Non-Significant Effect
		80	1	1.0000	Non-Significant Effect
		160	5.954E-05	0.0004	Significant Effect
		320	5.954E-05	0.0004	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contro	10	0	10
5		10	0	10
10		10	0	10
20		10	0	10
40		10	0	10
80		10	0	10
160		1	9	10
320		1	9	10

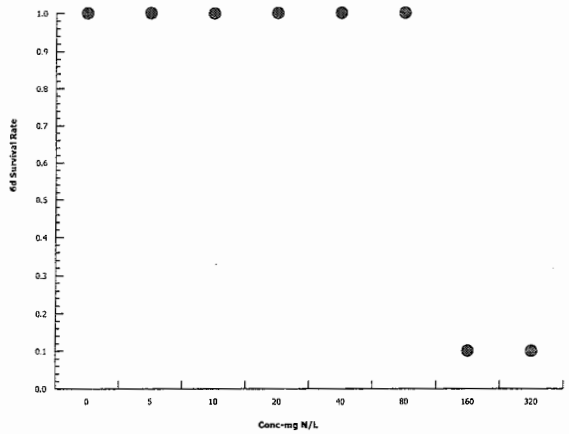
6d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
5		1	1	1	1	1	1	1	1	1	1
10		1	1	1	1	1	1	1	1	1	1
20		1	1	1	1	1	1	1	1	1	1
40		1	1	1	1	1	1	1	1	1	1
80		1	1	1	1	1	1	1	1	1	1
160		0	0	0	0	1	0	0	0	0	0
320		0	0	0	1	0	0	0	0	0	0

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmenta**

Analysis ID:	14-4505-8700	**Endpoint:**	6d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 9:44	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmenta**

Analysis ID:	05-2001-9965	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 9:43	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	13-4735-4001	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	17 Feb-11 11:30	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	MHW
Ending Date:	23 Feb-11 11:30	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 0h	**Source:**		**Age:**	
Sample ID:	20-7465-4729	**Code:**	Cer-NO3-MHW	**Client:**	BCMA
Sample Date:	17 Feb-11	**Material:**	NO3	**Project:**	
Receive Date:	17 Feb-11	**Source:**	BCMA		
Sample Age:	11h	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1279928656200		Yes	Two-Point Interpolation

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	1.421	0.5156	14.91
IC10	4.861	1.297	21.86
IC15	13.86	2.482	24.63
IC20	21.02	4.277	27.49
IC25	23.89	9.786	31.22
IC40	34.94	26.77	45.33
IC50	43.47	33.75	52.1

Reproduction Summary — **Calculated Variate**

Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	10	22.7	12	28	1.334	4.218	18.58%	0.0%
5		10	20.4	9	27	1.962	6.204	30.41%	10.13%
10		10	19.9	9	25	1.65	5.216	26.21%	12.33%
20		10	18.6	9	24	1.593	5.038	27.08%	18.06%
40		10	12.4	7	19	1.572	4.971	40.09%	45.37%
80		10	3.6	0	10	1.176	3.718	103.3%	84.14%
160		10	0	0	0	0	0		100.0%
320		10	0.3	0	3	0.3	0.9487	316.2%	98.68%

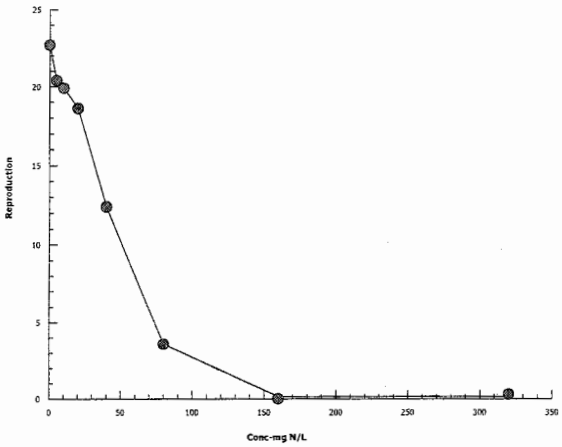
Reproduction Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	22	22	24	12	26	23	24	28	22	24
5		10	24	24	22	9	23	18	27	25	22
10		20	9	22	24	21	22	23	25	12	21
20		19	21	18	11	20	18	24	24	22	9
40		15	8	17	8	19	17	17	9	7	7
80		5	2	9	2	0	2	10	0	6	0
160		0	0	0	0	0	0	0	0	0	0
320		0	0	0	3	0	0	0	0	0	0

Ceriodaphnia 7-d Survival and Reproduction Test **Nautilus Environmenta**

Analysis ID:	05-2001-9965	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 9:43	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	18-8077-7145	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 9:50	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	13-4735-4001	**Test Type:**	Reproduction-Survival ~~(7d)~~ 6d JAB	**Analyst:**	
Start Date:	17 Feb-11 11:30	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	MHW
Ending Date:	23 Feb-11 11:30	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 0h	**Source:**		**Age:**	
Sample ID:	20-7465-4729	**Code:**	Cer-NO3-MHW	**Client:**	BCMA
Sample Date:	17 Feb-11	**Material:**	NO3	**Project:**	
Receive Date:	17 Feb-11	**Source:**	BCMA		
Sample Age:	11h	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	20	40	28.28		22.4%

Steel Many-One Rank Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	Ties	P-Value	Decision(α:5%)
Negative Control		5	95.5	75	18	3	0.5455	Non-Significant Effect
		10	82.5	75	18	4	0.1507	Non-Significant Effect
		20	75.5	75	18	2	0.0505	Non-Significant Effect
		40*	60	75	18	0	0.0016	Significant Effect
		80*	55	75	18	0	0.0004	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	2525.133	505.0267	5	20.56	<0.0001	Significant Effect
Error	1326.6	24.56667	54			
Total	3851.733	529.5933	59			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	2.66	15.09	0.7522	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9211	0.9459	0.0008	Non-normal Distribution

Reproduction Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	10	22.7	21.1	24.3	12	28	1.334	4.218	18.58%	0.0%
5		10	20.4	18.04	22.76	9	27	1.962	6.204	30.41%	10.13%
10		10	19.9	17.92	21.88	9	25	1.65	5.216	26.21%	12.33%
20		10	18.6	16.68	20.52	9	24	1.593	5.038	27.08%	18.06%
40		10	12.4	10.51	14.29	7	19	1.572	4.971	40.09%	45.37%
80		10	3.6	2.186	5.014	0	10	1.176	3.718	103.3%	84.14%
160		10	0	0	0	0	0	0	0		100.0%
320		10	0.3	-0.06086	0.6609	0	3	0.3	0.9487	316.2%	98.68%

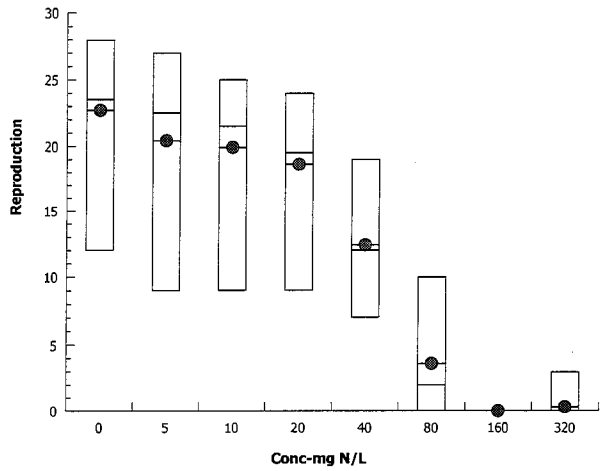
Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

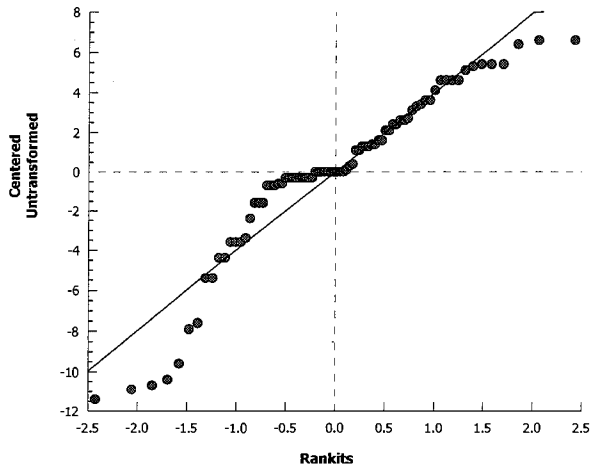
Analysis ID:	18-8077-7145	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 9:50	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Reproduction Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	22	22	24	12	26	23	24	28	22	24
5		10	24	24	22	9	23	18	27	25	22
10		20	9	22	24	21	22	23	25	12	21
20		19	21	18	11	20	18	24	24	22	9
40		15	8	17	8	19	17	17	9	7	7
80		5	2	9	2	0	2	10	0	6	0
160		0	0	0	0	0	0	0	0	0	0
320		0	0	0	3	0	0	0	0	0	0

Graphics





Dilution Water Logsheet

Batch #: 021611 Water Type: MHW - Daphnia

Water Quality Date	Temp. °C	pH	D.O. mg/L	Conductivity µS	Initials
Feb 17/11	20.0	8.1	8.3	354	KCB
Feb 18/11	21.0	8.1	8.4	344	KCB
Feb 21/11	21.0	8.1	8.3	348	KCB

Date Prepared	Feb 16/11	Chemicals Used	(Grams)
Amount Prepared	20L		
Preparation Water Used	DI	$NaHCO_3$	1.92
		$MgSO_4 \cdot 7H_2O$	1.26
Hardness (mg/L $CaCO_3$)	98	$CaSO_4 \cdot 2H_2O$	1.26
Alkalinity (mg/L $CaCO_3$)	62	KCL	0.08

Ceriodaphnia dubia Summary Sheet

Client: MABC
Work Order No.: n/a

Start Date/Time: Sept 23/10 @ 1215h
Set up by: JJT

Sample Information:

Sample ID: HardWater-Nitrate
Sample Date: n/a
Date Received: n/a
Sample Volume: n/a

Test Organism Information:

Broodstock No.: 091610
Age of young (Day 0): <24-h (within 12-h)
Avg No. young in first 3 broods of previous 7 d: 23
Mortality (%) in previous 7 d: 0
Individual female # used ≥8 young on test day: 21, 22, 23, 24, 25, 30, 31, 32, 33, 35

NaCl Reference Toxicant Results:

Reference Toxicant ID: JMB ~~Cd96~~ Cd58
Stock Solution ID: 09NaCl05
Date Initiated: JMB ~~Sept 11~~ Sept 28/10

7-d LC50 (95% CL): 1.98 (1.74 - 2.26) g/L NaCL
7-d IC50 (95% CL): 1.24 ~~(1.15~~ - 1.35) g/L NaCL
JMB 11/4

7-d LC50 Reference Toxicant Mean (2SD Range): 1.86 (1.46 - 2.36) g/L NaCL CV (%): 12.9
7-d IC50 Reference Toxicant Mean (2SD Range): 1.15 (0.88 - 1.50) g/L NaCL CV (%): 14.2

Test Results:

$mg NO_3$-N/L	Survival	Reproduction
LC50 %(v/v) (95% CL)	120.6 (95.2 - 152.8)	
IC25 %(v/v) (95% CL)		43.4 (27.4 - 52.7)
IC50 %(v/v) (95% CL)		63.2 (51.0 - 75.0)

JMB

Reviewed by: JGL
Date reviewed: March 18/11

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: In-house
Sample ID: Hard Water-Nitrate
Work Order #: N/A

Start Date & Time: Sept 23/10 @1215h
Stop Date: Sept 29/10 @1545h
Test Species: *Ceriodaphnia dubia*

Concentration	Days													
	0	1		2		3		4		5		6		7
Control	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.5	26.0	24.5	26.0	25.0	26.0	25.0	26.0	25.0	26.0	24.5	26.0		
DO (mg/L)	8.1	7.6	8.2	7.3	7.9	7.1	8.0	7.2	8.0	7.0	8.2	6.8		
pH	8.2	8.1	8.4	7.9	8.2	8.0	8.3	8.0	8.3	8.0	8.3	7.8		
Cond. (µS/cm)	559	557		559		553		556		564		575		
Initials	JJT	JJT		JJT		JJT		JJT		JJT		~		

Concentration	Days													
	0	1		2		3		4		5		6		7
10 mg/L N	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.5	26.0	24.5	26.0	25.0	26.0	25.0	26.0	25.0	26.0	25.0	26.0		
DO (mg/L)	8.0	7.6	8.2	7.3	7.8	7.1	8.0	7.2	8.0	7.0	8.1	6.7		
pH	8.1	8.2	8.3	8.0	8.2	8.0	8.3	8.1	8.2	8.1	8.2	7.9		
Cond. (µS/cm)	634	633		634		629		626		641		675		
Initials	JJT	JJT		JJT		JJT		JJT		JJT		~		

Concentration	Days													
	0	1		2		3		4		5		6		7
80 mg/L N	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.5	26.0	25.0	26.0	25.0	26.0	25.0	26.0	25.0	26.0	25.0	26.0		
DO (mg/L)	8.0	7.5	8.2	7.4	7.8	7.1	8.0	7.1	8.0	6.9	8.1	6.7		
pH	8.1	8.1	8.3	8.0	8.2	8.0	8.2	8.0	8.1	8.0	8.1	8.1		
Cond. (µS/cm)	1155	1148		1161		1144		1128		1174		1159		
Initials	JJT	JJT		JJT		JJT		JJT		JJT		~		

Concentration	Days													
	0	1		2		3		4		5		6		7
640 mg/L N	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	25.0	26.0	25.0	26.0	25.5									
DO (mg/L)	8.0	7.5	8.2	7.4	7.8									
pH	8.0	8.1	8.1	7.9	8.0									
Cond. (µS/cm)	5240	5240		5230										
Initials	JJT	JJT		JJT										

	Control			
Hardness*	166			
Alkalinity*	108			

* mg/L as CaCO3

Analysts: JJT

Reviewed by: JGL
Date reviewed: March 18/11

Sample Description:

Comments: **Broodboard Used:** 091610

Chronic Freshwater Toxicity Test
C. dubia Reproduction Data

Client: In-house
Sample ID: Hard Water-Nitrate
Work Order: N/A

Start Date & Time: Sept 23/10 @ 1215h
Stop Date & Time: Sept 29/10 @ 1545h
Set up by: JJT

Days	Concentration: Control										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
3	✓	4	✓	3	3	4	✓	✓	3	3	JJT
4	4	7	✓	7	7	7	6	✓	✓	7	JJT
5	8	10	4	10	11	11	✓	7	✓	0	JJT
6	8		8	✓	✓	✓	7	8	7	✓	~
7											
8											
Total	26	21	17	20	21	22	13	15	10	18	~

Days	Concentration: 10 mg/L N										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
3	3	2	2X	4	✓	3	3	3	✓	4	JJT
4	9	6	|	6	5	6	9	6	4	8	JJT
5	13	11	|	12	9	9	9	10	6	10	JJT
6	✓	✓	|	✓	✓	✓	✓	✓	6	✓	~
7											
8											
Total	25	19	2+	22	14	18	21	19	16	22	~

Days	Concentration: 20										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
3	4	3	3	✓	4	2	✓	4	3	2	JJT
4	7	6	✓	4	7	8	✓	8	6	7	JJT
5	11	8	✓	9	11	9	4	10	9	10	JJT
6	✓	✓	6	8	✓	✓	5	✓	✓	✓	~
7											
8											
Total	22	17	9	21	22	19	9	22	18	19	~

Days	Concentration: 40										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
3	✓	✓	✓	✓	✓	52	3	✓	4	✓	JJT
4	✓	4	✓	5	4	6	7	5	5	7	JJT
5	✓	7	4	9	7	9	6	✓	✓	✓	JJT
6	8	6	6	7	5	3	3	7	7	✓	~
7											
8											
Total	8	17	10	21	16	18	16	12	16	7	~

Days	Concentration: 80										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
4	2	✓	X	✓	✓	4	✓	3	✓	✓	JJT
5	✓	4	|	✓	✓	6	4	✓	✓	✓	JJT
6	5	4	|	4	5	4	4	4	4	3	~
7											
8											
Total	7	8	0+	4	5	14	8	7	4	3	~

Days	Concentration: 160										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	X	X	X	X	X	✓	X	✓	✓	✓	JJT
3						✓		✓	✓	✓	JJT
4						✓		✓	✓	✓	JJT
5						✓		X	X	✓	JJT
6						✓				✓	~
7											
8											
Total	X	—	—	—	—	0	+	X	+	0	~

Days	Concentration: 320										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	JJT
2	✓	X	X	X	X	✓	✓	✓	✓	✓	JJT
3	X					X	X	✓	X	✓	JJT
4								X		X	JJT
5											
6											
7											
8											
Total	X	—	—	—	—	—	—	—	—	—	JJT

Days	Concentration: 640										
	A	B	C	D	E	F	G	H	I	J	Init
1	X	✓	X	✓	✓	✓	✓	✓	✓	✓	JJT
2	|	X	|	X	X	X	X	X	X	X	JJT
3	|	|	|	|	|	|	|	|	|	|	
4	|	|	|	|	|	|	|	|	|	|	
5	|	|	|	|	|	|	|	|	|	|	
6	|	|	|	|	|	|	|	|	|	|	
7	|	|	|	|	|	|	|	|	|	|	
8	|	|	|	|	|	|	|	|	|	|	
Total	X	—	—	—	—	—	—	—	—	—	JJT

Days	Concentration:										
	A	B	C	D	E	F	G	H	I	J	Init
1											
2											
3											
4											
5											
6											
7											
8											
Total											

Notes: X = mortality.

Sample Description: $NaNO_3$

Comments: Total # Young only based on the first 3 Broods. Fourth and subsequent broods not included in total count.

Reviewed by: JGh

Date reviewed: March 15/11

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	08-6414-1449	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Oct-10 14:02	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	18-4841-4812	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	23 Sep-10	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	HW
Ending Date:	29 Sep-10	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 0h	**Source:**		**Age:**	
Sample ID:	06-4576-4684	**Code:**	267D964C	**Client:**	BCMA
Sample Date:	01 Oct-10 13:55	**Material:**	NO3	**Project:**	
Receive Date:	01 Oct-10 13:55	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	3.33%	2.0814	0.051367	120.61	95.202	152.8

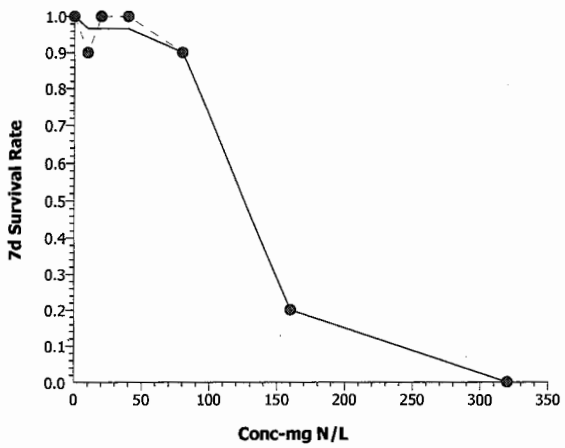
7d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**Diff%**	**A**	**B**
0	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
10		10	0.9	0	1	0.057735	0.31623	35.14%	10.0%	9	10
20		10	1	1	1	0	0	0.0%	0.0%	10	10
40		10	1	1	1	0	0	0.0%	0.0%	10	10
80		10	0.9	0	1	0.057735	0.31623	35.14%	10.0%	9	10
160		10	0.2	0	1	0.07698	0.42164	210.82%	80.0%	2	10
320		10	0	0	0	0	0		100.0%	0	10

7d Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
10		1	1	0	1	1	1	1	1	1	1
20		1	1	1	1	1	1	1	1	1	1
40		1	1	1	1	1	1	1	1	1	1
80		1	1	0	1	1	1	1	1	1	1
160		0	0	0	0	0	1	0	0	0	1
320		0	0	0	0	0	0	0	0	0	0

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	08-7636-8568	**Endpoint:**	6d 7d JAB Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:22	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	18-4841-4812	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	23 Sep-10	**Protocol:**	EC/EPS 1/RM/21 6d JAB	**Diluent:**	HW
Ending Date:	29 Sep-10	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 0h	**Source:**		**Age:**	
Sample ID:	06-4576-4684	**Code:**	267D964C	**Client:**	BCMA
Sample Date:	01 Oct-10 13:55	**Material:**	NO3	**Project:**	
Receive Date:	01 Oct-10 13:55	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	80	160	113.1	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		10	0.5	1.0000	Non-Significant Effect
		20	1	1.0000	Non-Significant Effect
		40	1	1.0000	Non-Significant Effect
		80	0.5	1.0000	Non-Significant Effect
		160	0.0003572	0.0018	Significant Effect
		320	5.413E-06	<0.0001	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	10	0	10
10		9	1	10
20		10	0	10
40		10	0	10
80		9	1	10
160		2	8	10
320		0	10	10

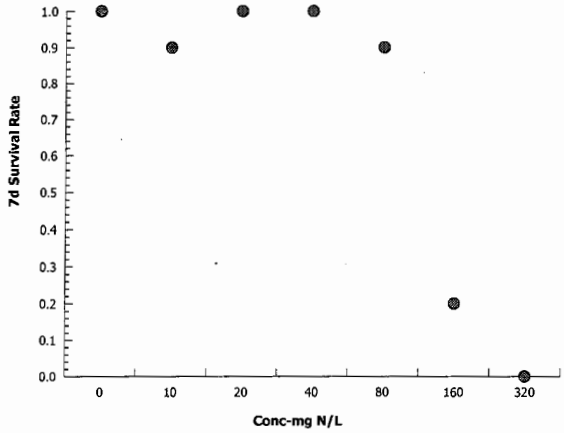
7d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	1	1	1	1	1	1	1	1	1	1
10		1	1	0	1	1	1	1	1	1	1
20		1	1	1	1	1	1	1	1	1	1
40		1	1	1	1	1	1	1	1	1	1
80		1	1	0	1	1	1	1	1	1	1
160		0	0	0	0	0	1	0	0	0	1
320		0	0	0	0	0	0	0	0	0	0

Ceriodaphnia 7-d Survival and Reproduction Test **Nautilus Environmental**

Analysis ID:	08-7636-8568	**Endpoint:**	6d 7d Survival Rate JAB	**CETIS Version:**	CETISv1.8.0
Analyzed:	07 Mar-11 10:22	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Test Code: 03-3947-9379/C-HW-NO3

Ceriodaphnia 7-d Survival and Reproduction Test

Nautilus Environmental

Analysis ID:	10-7809-3199	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Oct-10 14:02	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	18-4841-4812	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	23 Sep-10	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	HW
Ending Date:	29 Sep-10	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 0h	**Source:**		**Age:**	
Sample ID:	06-4576-4684	**Code:**	267D964C	**Client:**	BCMA
Sample Date:	01 Oct-10 13:55	**Material:**	NO3	**Project:**	
Receive Date:	01 Oct-10 13:55	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	23.912	1.2538	41.866
IC10	28.553	4.0796	44.276
IC15	34.059	12.782	46.785
IC20	40.254	19.897	49.604
IC25	43.408	27.427	52.712
IC40	54.396	41.993	65.235
IC50	63.192	50.979	74.955

Reproduction Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	10	17.2	10	22	0.79256	4.341	25.24%	0.0%
10		10	17.6	0	25	1.2684	6.9474	39.47%	-2.33%
20		10	17.8	9	22	0.90595	4.9621	27.88%	-3.49%
40		10	14.1	7	21	0.84085	4.6056	32.66%	18.02%
80		10	6	0	14	0.68853	3.7712	62.85%	65.12%
160		10	0	0	0	0	0		100.0%
320		10	0	0	0	0	0		100.0%

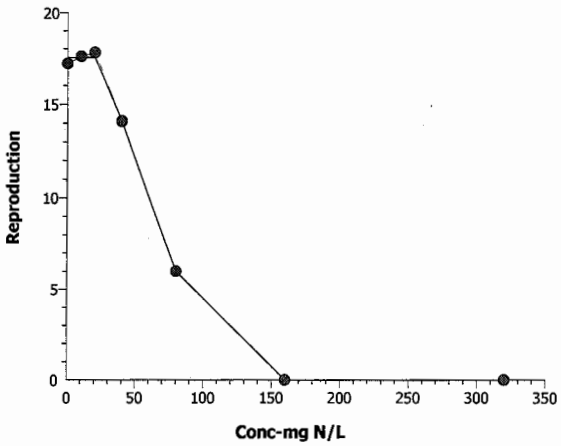
Reproduction Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	20	21	12	20	21	22	13	15	10	18
10		25	19	0	22	14	18	21	19	16	22
20		22	17	9	21	22	19	9	22	18	19
40		8	17	10	21	16	18	16	12	16	7
80		7	8	0	4	5	14	8	7	4	3
160		0	0	0	0	0	0	0	0	0	0
320		0	0	0	0	0	0	0	0	0	0

Ceriodaphnia 7-d Survival and Reproduction Test | **Nautilus Environmental**

Analysis ID:	10-7809-3199	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.7.0
Analyzed:	01 Oct-10 14:02	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	02-2769-9876	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	17 Mar-11 15:34	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	18-4841-4812	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	23 Sep-10	**Protocol:**	EC/EPS 1/RM/21 6d JAB	**Diluent:**	HW
Ending Date:	29 Sep-10	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 0h	**Source:**		**Age:**	
Sample ID:	06-4576-4684	**Code:**	267D964C	**Client:**	BCMA
Sample Date:	01 Oct-10 13:55	**Material:**	NO3	**Project:**	
Receive Date:	01 Oct-10 13:55	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	40	80	56.57		29.1%

Steel Many-One Rank Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	Ties	P-Value	Decision(α:5%)
Negative Control		10	113.5	76	18	3	0.9452	Non-Significant Effect
		20	110	76	18	3	0.9009	Non-Significant Effect
		40	85.5	76	18	4	0.1929	Non-Significant Effect
		80*	58	76	18	0	0.0007	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	1001.92	250.48	4	9.848	<0.0001	Significant Effect
Error	1144.5	25.43333	45			
Total	2146.42	275.9133	49			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	3.915	13.28	0.4176	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9226	0.9367	0.0029	Non-normal Distribution

Reproduction Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	10	17.2	15.55	18.85	10	22	1.373	4.341	25.24%	0.0%
10		10	17.6	14.96	20.24	0	25	2.197	6.947	39.47%	-2.33%
20		10	17.8	15.91	19.69	9	22	1.569	4.962	27.88%	-3.49%
40		10	14.1	12.35	15.85	7	21	1.456	4.606	32.66%	18.02%
80		10	6	4.565	7.435	0	14	1.193	3.771	62.85%	65.12%
160		10	0	0	0	0	0	0	0		100.0%
320		10	0	0	0	0	0	0	0		100.0%

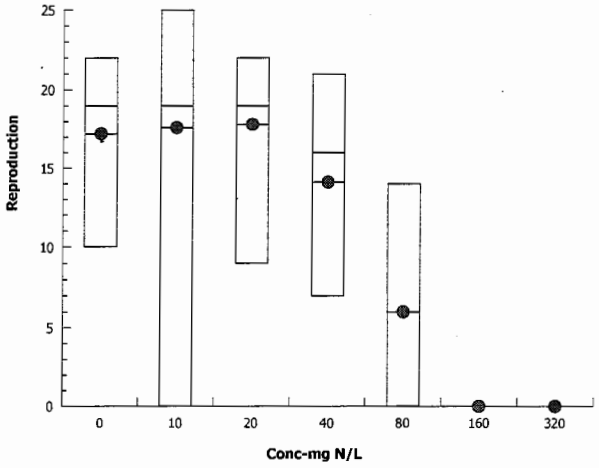
Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

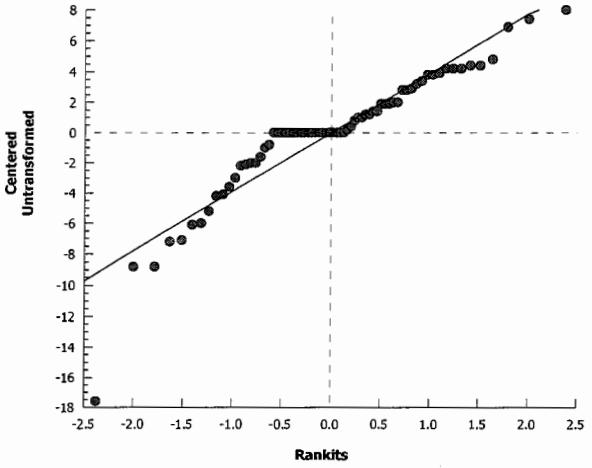
Analysis ID: 02-2769-9876 **Endpoint:** Reproduction **CETIS Version:** CETISv1.8.0
Analyzed: 17 Mar-11 15:34 **Analysis:** Nonparametric-Control vs Treatments **Official Results:** Yes

Reproduction Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Negative Control	20	21	12	20	21	22	13	15	10	18
10		25	19	0	22	14	18	21	19	16	22
20		22	17	9	21	22	19	9	22	18	19
40		8	17	10	21	16	18	16	12	16	7
80		7	8	0	4	5	14	8	7	4	3
160		0	0	0	0	0	0	0	0	0	0
320		0	0	0	0	0	0	0	0	0	0

Graphics





Dilution Water Logsheet

Batch #: 092110 Water Type: Hard Water

Water Quality Date	Temp. °C	pH	D.O. mg/L	Conductivity µS	Initials
Sept 22/10	24.0	8.2	8.3	560	JJ7
Sept 23/10	24.5	8.2	8.1	559	JJ7
Sept 24/10	24.5	8.4	8.2	557	JJ7
Sept 25/10	25.0	8.2	7.9	559	JJ7
Sept 26/10	25.0	8.3	8.0	553	JJ7
Sept 27/10	25.0	8.3	8.0	556	JJ7
			7.92		AL

Date Prepared	Sept 21/10	Chemicals Used	(Grams)
Amount Prepared	10L		
Preparation Water Used	DI	$NaHCO_3$	1.92
		$MgSO_4 \cdot 7H_2O$ JJ7	1.20
Hardness (mg/L $CaCO_3$)	166	$CaSO_4 \cdot 2H_2O$	1.20
Alkalinity (mg/L $CaCO_3$)	108	KCL	0.080

APPENDIX E – *Hyalella azteca* tests

H. azteca Test Summary Sheet

Client: MABC

Start Date/Time: Dec 30/10 @1200h

Work Order No.: n/a

Test Species: H. azteca

Sample Information:

Sample ID: SW - Nitrate
Sample Date: n/a
Date Received: n/a
Sample Volume: n/a

Dilution Water:

Type: Soft Water (SW)
Hardness (mg/L $CaCO_3$): 46
Alkalinity (mg/L $CaCO_3$): 22

Test Organism Information:

Species: H. azteca
Supplier: Aquatic Bio-Systems (Colorado)
Date received: Dec 29/10
Age/Size (Day 0): 6-8 day old

NaCl Reference Toxicant Results:

Reference Toxicant ID: HA42
Stock Solution ID: n/a
Date Initiated: Dec 30/10

96-h LC50 (95% CL): 4.6 (3.8 - 5.6) g/L ~~KCl~~ NaCl JAB
250

96-h LC50 Reference Toxicant Mean and Range: 4.5 (3.0 - 6.7) g/L ~~KCl~~ NaCl JAB CV (%): 21.9

Test Results:

mg NO_3-N/L	Survival	~~JAB~~ Biomass / Mean Dry Weight
LC25 % (v/v) (95% CL)	n/a	
LC50 % (v/v) (95% CL)	~~124 (106 - 144)~~ JAB	
IC25 % (v/v) (95% CL)	126 (108 - 147)	12.9 (n/a - 58.4)
IC50 % (v/v) (95% CL)		52.2 (35.8 - 64.0)

JAB

Reviewed by: JGh

Date reviewed: March 18/11

Chronic *H. azteca* Sediment Toxicity Test Data Sheet

Freshwater Sediment Water Quality

Client: MABC
Work Order No.: n/a
Test Condition: Soft Water - Nitrate

Start Date: 30-Dec-10 @ 1200 h
Termination Date: 13-Jan-11 a
Test Organism: *Hyalella azteca*

Temperature (°C)

Sample ID mg NO3-N/L	Day 0	1 old	1 new	#43 old	#43 new	6 old	6 new	8 old	8 new	11 old	11 new	13 old	13 new	14
Control	22.0	22.0		22.0	22.5	22.0	22.0	22.5	22.0	22.5	22.0	23.0	22.5	22.0
10	22.0	22.0		22.5	22.5	22.0	22.0	22.0	22.0	22.5	22.0	23.0	22.5	22.0
20	22.0	22.0		23.0	22.5	22.0	22.0	22.5	22.0	23.0	22.0	23.0	22.5	22.0
40	22.0	22.0		23.0	22.5	22.5	22.0	22.5	22.0	23.0	22.0	23.0	22.5	22.5
80	22.0	22.0		23.0	22.0	22.5	22.0	22.5	22.0	23.0	22.0	23.0	22.0	22.5
160	22.0	22.0		23.0	22.0	22.5	22.0	22.5	22.0	23.0	22.0	23.0	22.0	22.5
320	22.0	22.0		23.0	22.0	22.5	22.0	23.0	22.0	23.0	22.0	23.0	22.0	22.5
Technician Initials		KJL						KJL	KJL	KJL	KJL	KJL	KJL	KJL

Conductivity (µS)

Sample ID mg NO3-N/L	Day 0	1 old	1 new	#43 old	#43 new	6 old	6 new	8 old	8 new	11 old	11 new	13 old	13 new	14
Control	136	164		178	155	189	156	187	157	195	157	190	156	184
10	201	223		233	239	252	242	261	241	267	228	235	228	250
20	256	274		282	324	310	325	326	325	337	306	297	326	317
40	407	417		423	487	456	498	479	490	490	472	485	490	494
80	574	583		583	805	683	815	741	811	726	813	767	810	794
160	1287	1269		1262	1432	1341	1470	1329	1440	1474	1445	1443	1448	1454
320	2360	2300		2290	2650	2470	2660	2570	2660	2210	2670	2690	2660	2700
Technician Initials		KJL						KJL	KJL	KJL	KJL	KJL	KJL	

Comments:

Reviewed by: KJL Date Reviewed: March 17/11

H. azteca Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC

Work Order No.: n/a

Test Condition: **Soft Water - Nitrate**

Start Date: 30-Dec-10 @ 1200h

Termination Date: 13-Jan-11 @ 1200h

Test Organism: *H. azteca*

Sample ID (mg NO3-N/L)	Pan No. (Hot Pink)	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	1	A	10	0	0	KJL	1308.27	1310.22	10	KJL
	2	B	9	0	1		1315.63	1317.07	9	
	3	C	10	0	0		1313.97	1315.33	10	
	4	D	9	0	1		1317.49	1318.72	9	
10	5	A	10	0	0	KJL	1317.35	1318.27	10	KJL
	6	B	10	0	0		1322.26	1323.45	10	
	7	C	10	0	0		1316.04	1317.50	10	
	8	D	10	0	0		1313.69	1315.16	10	
20	9	A	10	0	0	KJL	1300.60	1301.73	10	KJL
	10	B	9	0	1		1297.42	1297 KJL 8.02	9	
	11	C	8	0	2		1304.42	1305.11	8	
	12	D	10	0	0		1294.44	1295.65	10	
40	13	A	9	1	0	KJL	1297.88	1298.70	9	KJL
	14	B	9	1	0	KJL	1303.44	1304.73	9	
	15	C	7①	0	3	KJL	1290.96	1291.66	7	
	16	D	10	0	0	KJL	1302.66	1303.71	10	
80	17	A	10	0	0	KJL	1295.07	1295.53	10	KJL
	18	B	8	0	2		1295.43 KJL	1295.8658 KJL	8	
	19	C	9	0	1		1297.14	1297.44	9	
	20	D	7	1	2		1301.89	1302.02	7	

Comments: ① confirmed by BPL

Reweighed pan ⑥ 1323.28 ⑰ 1295.43 ⑨ 1301.65

Reviewed by: JGL

Date Reviewed: March 17/11

H. azteca Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC

Work Order No.: n/a

Test Condition: **Soft Water - Nitrate**

Start Date: 30-Dec-10 @ 1200h

Termination Date: 13-Jan-11 @ 1200h

Test Organism: *H. azteca*

Sample ID (mg NO3-N/L)	Pan No.	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
160	21	A	4 ①	3	3	KLB	1303.47	1303.54	4	KJL
	22	B	~~3~~ ~~2~~ ①	0	~~8~~ 7 KLB	↓	1310.71	1310.74	3	↓
	23	C	5 ①	0	5		1297 ~~64~~ 0.73	1290 ~~00~~ 90	5	
	24	D	5 ①	0	5		1302. ~~75~~ 48	1302.62	4 ②	
320	25	A	0 ①	0	10 ~~BBR~~	BRL	1279.54	/	0	KJL
	26	B	0 ①	0	10 ~~BRL~~	↓	1296.30	/	0	↓
	27	C	0 ①	0	10 ~~BRL~~		1306.00	/	0	
	28	D	0 ①	0	10 ~~BRL~~		1304.93	/	0	
	9	A								
	10	B								
	11	C								
	12	D								
	13	A								
	14	B								
	15	C								
	16	D								
	17	A								
	18	B								
	19	C								
	20 ar	D								

Comments: ① Checked by EGS ② Organism lost in transfer

~~AB Reweighed pan (22) 1310.63~~

Reviewed by: JGL

Date Reviewed: March 18/11

CETIS Analytical Report

Hyalella 14-d Survival and Growth Sediment Test 14d JAB — **Nautilus Environmental**

Analysis ID:	10-9741-9186	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	17 Mar-11 17:19	**Analysis:**	Untrimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	17-4239-4950	**Test Type:**	Growth-Survival (10d) 14d JAB	**Analyst:**	
Start Date:	30 Dec-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	~~Mod-Hard Synthetic Water~~ JAB Soft Water
Ending Date:	13 Jan-11	**Species:**	Hyalella azteca	**Brine:**	
Duration:	14d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	11-6566-3760	**Code:**	457A9E10	**Client:**	BCMA
Sample Date:	14 Jan-11 14:52	**Material:**	NO3	**Project:**	
Receive Date:	14 Jan-11 14:52	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0.05	0.00%	2.1	0.0336	125.9	107.8	146.9

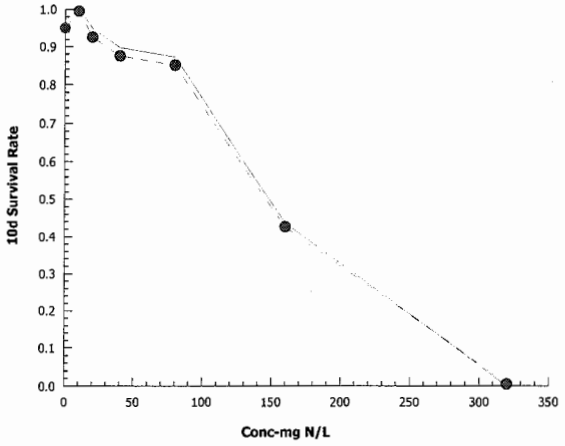
10d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**%Effect**	**A**	**B**
0	Negative Control	4	0.95	0.9	1	0.02887	0.05773	6.08%	0.0%	38	40
10		4	1	1	1	0	0	0.0%	-5.26%	40	40
20		4	0.925	0.8	1	0.04787	0.09574	10.35%	2.63%	37	40
40		4	0.875	0.7	1	0.06292	0.1258	14.38%	7.9%	35	40
80		4	0.85	0.7	1	0.06455	0.1291	15.19%	10.53%	34	40
160		4	0.425	0.3	0.5	0.04787	0.09574	22.53%	55.26%	17	40
320		4	0	0	0	0	0		100.0%	0	40

10d Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9	1	0.9
10		1	1	1	1
20		1	0.9	0.8	1
40		0.9	0.9	0.7	1
80		1	0.8	0.9	0.7
160		0.4	0.3	0.5	0.5
320		0	0	0	0

Graphics



CETIS Analytical Report

Hyalella 14-d Survival and Growth Sediment Test 14d JAB — **Nautilus Environmental**

Analysis ID:	17-4298-8236	**Endpoint:**	~~10d~~ 14d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	17 Mar-11 17:20	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	17-4239-4950	**Test Type:**	Growth-Survival (~~10d~~ 14d) JAB	**Analyst:**	
Start Date:	30 Dec-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	~~Mod Hard Synthetic Water~~ Soft Water JAB
Ending Date:	13 Jan-11	**Species:**	Hyalella azteca	**Brine:**	
Duration:	14d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	11-6566-3760	**Code:**	457A9E10	**Client:**	BCMA
Sample Date:	14 Jan-11 14:52	**Material:**	NO3	**Project:**	
Receive Date:	14 Jan-11 14:52	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU
Untransformed		C > T	Not Run	80	160	113.1	

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		10	1	1.0000	Non-Significant Effect
		20	0.5	1.0000	Non-Significant Effect
		40	0.2158	0.6473	Non-Significant Effect
		80	0.1317	0.5267	Non-Significant Effect
		160	1.975E-07	<0.0001	Significant Effect
		320	0	<0.0001	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	38	2	40
10		40	0	40
20		37	3	40
40		35	5	40
80		34	6	40
160		17	23	40
320		0	40	40

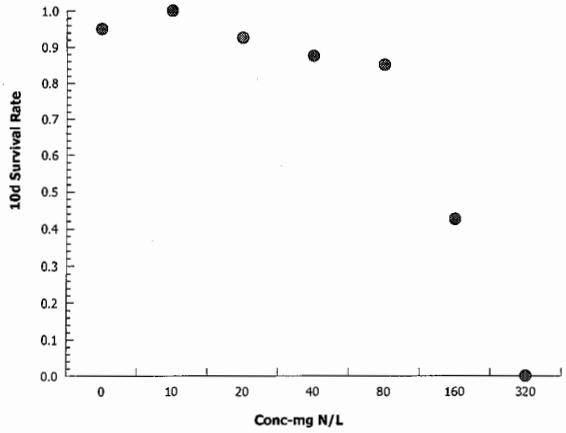
10d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.9	1	0.9
10		1	1	1	1
20		1	0.9	0.8	1
40		0.9	0.9	0.7	1
80		1	0.8	0.9	0.7
160		0.4	0.3	0.5	0.5
320		0	0	0	0

Hyalella 14-d Survival and Growth Sediment Test 14d JAB **Nautilus Environmental**

Analysis ID:	17-4298-8236	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	17 Mar-11 17:20	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Hyalella 14-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	04-8691-1094	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	18 Jan-11 13:43	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	17-4239-4950	**Test Type:**	Growth-Survival (~~100~~) 14d JAB	**Analyst:**	
Start Date:	30 Dec-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	~~Mod Hard Synthetic Water~~ Soft Water JAB
Ending Date:	13 Jan-11	**Species:**	Hyalella azteca	**Brine:**	
Duration:	14d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	11-6566-3760	**Code:**	457A9E10	**Client:**	BCMA
Sample Date:	14 Jan-11 14:52	**Material:**	NO3	**Project:**	
Receive Date:	14 Jan-11 14:52	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.9179	2.8016	1.0000	No Outliers Detected
Control Trend	Mann-Kendall Trend	-4		0.3043	Non-significant Trend in Controls

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	0.83786	0.097431	17.161
IC10	2.3777	N/A	18.66
IC15	5.2078	N/A	20.629
IC20	10.148	N/A	22.609
IC25	12.94	N/A	58.43
IC40	44.139	N/A	55.235
IC50	52.236	35.808	63.963

Mean Dry Weight-mg Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.15691	0.136	0.195	0.0050631	0.027732	17.67%	0.0%
10		4	0.126	0.092004	0.14701	0.004768	0.026115	20.73%	19.7%
20		4	0.096729	0.066664	0.12101	0.004556	0.024954	25.8%	38.36%
40		4	0.10986	0.091105	0.14334	0.0042074	0.023045	20.98%	29.99%
80		4	0.038537	0.018572	0.056244	0.0029723	0.01628	42.25%	75.44%
160		4	0.024135	0.01001	0.035004	0.0022582	0.012368	51.25%	84.62%

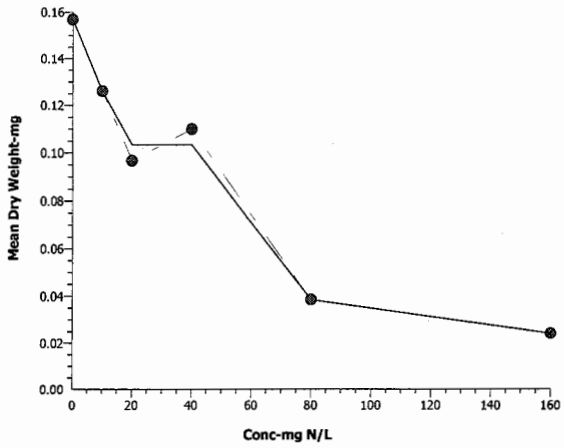
Mean Dry Weight-mg Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.195	0.15999	0.136	0.13666
10		0.092004	0.11899	0.146	0.14701
20		0.113	0.066664	0.086243	0.12101
40		0.091105	0.14334	0.10001	0.10499
80		0.046008	0.056244	0.033325	0.018572
160		0.017517	0.01001	0.034009	0.035004

Hyalella 14-d Survival and Growth Sediment Test **Nautilus Environmental**

Analysis ID:	04-8691-1094	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	18 Jan-11 13:43	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Hyalella 14-d Survival and Growth Sediment Test — Nautilus Environmental

Analysis ID:	02-4517-4811	Endpoint:	Mean Dry Weight-mg	CETIS Version:	CETISv1.8.0
Analyzed:	02 Mar-11 9:38	Analysis:	Parametric-Control vs Treatments	Official Results:	Yes
Batch ID:	17-4239-4950	Test Type:	Growth-Survival ~~(10d)~~ 14d JAB	Analyst:	
Start Date:	30 Dec-10	Protocol:	EC/EPS 1/RM/33	Diluent:	~~Mod-Hard Synthetic Water~~ JAB
Ending Date:	13 Jan-11	Species:	Hyalella azteca	Brine:	Soft Water
Duration:	14d 0h	Source:	Aquatic Biosystems, CO	Age:	
Sample ID:	11-6566-3760	Code:	457A9E10	Client:	BCMA
Sample Date:	14 Jan-11 14:52	Material:	NO3	Project:	
Receive Date:	14 Jan-11 14:52	Source:	BCMA		
Sample Age:	N/A	Station:			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	10	20	14.14		24.3%

Dunnett's Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		10	1.948	2.407	6	0.0382	0.1139	Non-Significant Effect
		20*	3.792	2.407	6	0.0382	0.0029	Significant Effect
		40*	2.965	2.407	6	0.0382	0.0166	Significant Effect
		80*	7.458	2.407	6	0.0382	<0.0001	Significant Effect
		160*	8.366	2.407	6	0.0382	<0.0001	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.0527003	0.01054006	5	20.92	<0.0001	Significant Effect
Error	0.009068542	0.0005038079	18			
Total	0.06176884	0.01104387	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	2.241	15.09	0.8149	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9693	0.884	0.6500	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.1569	0.1464	0.1675	0.136	0.195	0.01387	0.02773	17.67%	0.0%
10		4	0.126	0.1161	0.1359	0.092	0.147	0.01306	0.02612	20.73%	19.7%
20		4	0.09673	0.08724	0.1062	0.06666	0.121	0.01248	0.02495	25.8%	38.36%
40		4	0.1099	0.1011	0.1186	0.09111	0.1433	0.01152	0.02304	20.98%	29.99%
80		4	0.03854	0.03234	0.04473	0.01857	0.05624	0.00814	0.01628	42.24%	75.44%
160		4	0.02413	0.01943	0.02884	0.01001	0.035	0.006184	0.01237	51.25%	84.62%

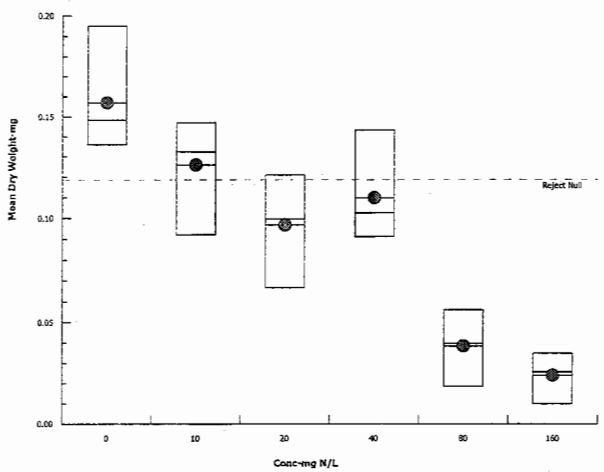
Hyalella 14-d Survival and Growth Sediment Test — Nautilus Environmental

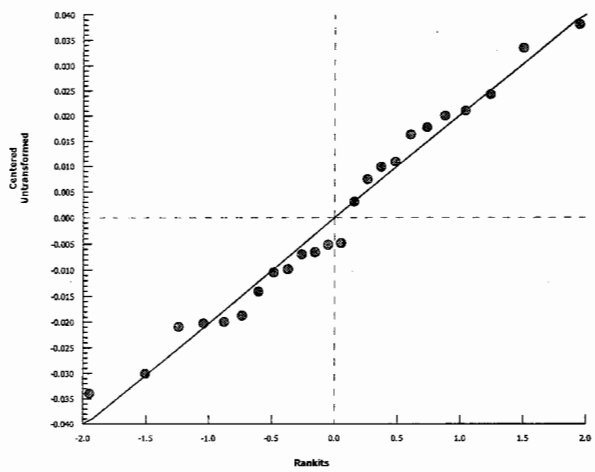
Analysis ID:	02-4517-4811	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:38	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.195	0.16	0.136	0.1367
10		0.092	0.119	0.146	0.147
20		0.113	0.06666	0.08624	0.121
40		0.09111	0.1433	0.1	0.105
80		0.04601	0.05624	0.03333	0.01857
160		0.01752	0.01001	0.03401	0.035

Graphics





H. azteca Test Summary Sheet

Client: MABC

Start Date/Time: Dec 30/10 @ 1200h

Work Order No.: n/a

Test Species: H. azteca

Sample Information:

Sample ID: MHW-Nitrate
Sample Date: n/a
Date Received: n/a
Sample Volume: n/a

Dilution Water:

Type: Moderately Hard Water (MHW)
Hardness (mg/L $CaCO_3$): 86
Alkalinity (mg/L $CaCO_3$): 48

Test Organism Information:

Species: H. azteca
Supplier: Aquatic Bio-Systems (Colorado)
Date received: Dec 29/10
Age/Size (Day0): 6-8 day old

NaCl Reference Toxicant Results:

Reference Toxicant ID: HA42
Stock Solution ID: n/a
Date Initiated: Dec 30/10

96-h LC50 (95% CL): 4.6 (3.8-5.6) g/L NaCl

96-h LC50 Reference Toxicant Mean and ~~Range~~ 250: 4.5 (3.0-6.7) g/L NaCl CV (%): 21.9

Test Results:

mg NO_3-N/L	Survival	Mean Dry Weight ~~Biomass~~ JAB
LC25 % (v/v) (95% CL)	n/a	
LC50 % (v/v) (95% CL)	287 (252-326)	
IC25 % (v/v) (95% CL)		117 (44.2-190)
IC50 % (v/v) (95% CL)		213 (134-340)

JAB

Reviewed by: JGL

Date reviewed: March 18/11

Chronic *H. azteca* Sediment Toxicity Test Data Sheet

Freshwater Sediment Water Quality

Client: MABC
Work Order No.: n/a
Test Condition: MHW - Nitrate

Start Date: 30-Dec-10
Termination Date: 13-Jan-11 a
Test Organism: *Hyalella azteca*

Temperature (°C)

Sample ID mg NO3-N/L	Day 0	1 old	1 new	a #3 old	a #3 new	6 old	6 new	8 old	8 new	11 old	11 new	13 old	13 new	14
Control	22.0	22.0		23.0	22.5	22.0	22.5	23.0	22.0	22.5	22.0	23.0	22.5	22.5
20	22.0	22.0		23.0	22.5	22.5	22.0	23.0	22.5	22.5	22.0	23.0	22.5	23.0
40	22.0	22.0		23.0	22.5	22.5	22.0	23.0	22.5	23.0	22.0	23.0	22.5	23.0
80	22.0	22.0		23.0	22.5	22.5	22.0	23.0	22.5	23.0	22.0	23.0	22.5	23.0
160	22.0	22.0		23.0	22.5	22.5	22.0	23.0	22.5	23.0	22.0	23.0	22.5	23.0
320	22.0	22.0		23.0	22.5	22.5	22.0	23.0	22.5	22.5	22.0	23.0	22.0	23.0
640	22.0	22.0		23.0	22.5	22.5	22.0	23.0	22.5	22.5	22.0	23.0	22.0	23.0
Technician Initials		KJL						KJL	KJL	KJL	KJL	KJL	KJL	KJL

Conductivity (µS)

Sample ID mg NO3-N/L	Day 0	1 old	1 new	a #3 old	a #3 new	6 old	6 new	8 old	8 new	11 old	11 new	13 old	13 new	14
Control	253	269		278	323	302	314	316	320	329	324	332	322	331
20	385	392		396	476	439	479	462	485	483	491	488	491	493
40	509	516		523	640	584	645	622	651	648	640	657	655	663
80	774	770		781	953	865	959	943	968	958	971	969	968	979
160	1345	1332		1322	1577	1450	1580	1513	1593	1591	1600	1584	1594	1602
320	2420	2150		2460	2800	2670	2860	2930	2860	2870	2830	2880	2820	2870
640	4600	4740		4580	5160	4970	5150	5030	5160	5200	5190	5210	5180	5210
Technician Initials		KJL						KJL	KJL	KJL	KJL	KJL	KJL	KJL

Comments:

Reviewed by: JGH Date Reviewed: March 17/11

Chronic *H. azteca* Sediment Toxicity Test Data Sheet

Freshwater Sediment Water Quality

Client: MABC
Work Order No.: n/a
Test Condition: MHW - Nitrate

Start Date: 30-Dec-10
Termination Date: 13-Jan-11a
Test Organism: *Hyalella azteca*

Dissolved Oxygen (mg/L)

Sample ID	Day													
	0	1		a A3		6		8		11		13		14
mg NO3-N/L		old	new	old	new	old	new	old	new	old	new	old	new	
Control	8.1	8.2		8.3	8.2	7.7	8.3	7.9	8.2	7.9	8.3	8.1	8.3	7.9
20	8.0	8.2		8.3	8.2	7.8	8.3	7.9	8.1	8.0	8.3	8.1	7.1	7.7
40	8.0	8.3		8.2	8.1	7.8	8.2	7.9	8.1	8.0	8.4	8.1	7.1	7.7
80	8.0	8.2		8.3	8.1	7.9	8.2	7.9	7.9	8.0	8.4	8.2	7.2	7.7
160	8.0	8.2		8.3	8.1	7.9	8.2	7.9	8.1	7.9	8.5	8.1	7.1	7.7
320	8.0	8.3		8.2	8.2	7.9	8.2	7.9	8.1	8.0	8.2	8.1	7.1	7.8
640	8.1	8.3		8.2	8.2	7.9	8.2	7.9	8.1	8.0	8.3	8.1	7.2	7.7
Technician Initials		KJL						KJL	KJL	KJL	KJL	KJL	KJL	

pH

Sample ID	Day													
	0	1		a A3		6		8		11		13		14
mg NO3-N/L		old	new	old	new	old	new	old	new	old	new	old	new	
Control	7.2	7.1		7.1	7.7	7.5	7.8	7.6	7.7	~~7.6~~ 7.7	7.8	7.8	8.0	7.8
20	7.4	7.2		7.2	7.7	7.6	7.8	7.6	7.9	~~7.6~~ 7.7	7.9	7.8	8.0	7.8
40	7.5	7.3		7.3	7.7	7.6	7.8	7.6	7.9	7.7	7.9	7.8	8.0	7.8
80	7.5	7.3		7.4	7.7	7.7	7.8	7.7	7.9	7.7	7.8	7.8	7.9	7.8
160	7.5	7.3		7.4	7.7	7.6	7.8	7.6	7.9	7.7	7.8	7.8	7.9	7.8
320	7.5	7.3		7.3	7.7	7.6	7.7	7.6	7.8	7.6	7.8	7.8	7.9	7.8
640	7.4	7.2		7.3	7.6	7.6	7.7	7.5	7.8	7.6	7.8	7.7	7.9	7.8
Technician Initials		KJL						KJL	KJL	KJL	KJL	KJL	KJL	KJL

Comments:

Reviewed by: JGL Date Reviewed: March 17/11

H. azteca Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC
Work Order No.: n/a
Test Condition: **MHW Water - Nitrate**

Start Date: 30-Dec-10 @ 1200 h
Termination Date: 13-Jan-11 @ 1200 h
Test Organism: *H. azteca*

Sample ID (mg NO3-N/L)	Pan No. (Sky blue)	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	1	A	10	0	0	QW	1312.27	1313.68	10	KJL
	2	B	10	0	0		1310.22	1311.18	10	"
	3	C	9	0	1		1307.62	1308.40	9	
	4	D	10	0	0		1306.15	1307.41	10	
20	5	A	6 ①	0	4	KJL	1308.49	1309.22	6	KJL
	6	B	10	0	0		1309.02	1309.94	10	
	7	C	10	0	0		1309.97	1310.76	10	
	8	D	10	0	0		1307.34	1308.93	10	
40	9	A	9	0	1	JAB	1309.35	1310.68	9	KJL
	10	B	10	0	0		1306.46	1307.57	10	
	11	C	6 ①	3	1 JAB		1307.58	1307.90	②5	
	12	D	7 ①	0	3		1306.16	1306.61	7	
80	13	A	10	0	0	KJL	1307.43	1308.08	10	KJL
	14	B	10	0	0		1309.92	1310.65	10	
	15	C	9	1	0		1310.54	1311.53	9	
	16	D	10	0	0		1322.72	1324.27	10	
160	17	A	9	0	1	QW	1320.09	1320.74	9	KJL
	18	B	10	0	0		1320.44	1320.98	10	
	19	C	9	1	0		1316.80	1317.52	9	
	20	D	10	0	0		1318.46	1318.92	10	

Comments: ① confirmed by EGS ② Organisms lost in transfer (1)
Reweighed pans ⑧1308.31 ⑬1308.05 ⑥ 1309.82 ⑩ 1307.51

Reviewed by: JGu
Date Reviewed: March 18/11

H. azteca Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC

Work Order No.: n/a

Test Condition: **MHW - Nitrate**

Start Date: 30-Dec-10 @ 1200h

Termination Date: 13-Jan-11 ~ @ 1200h

Test Organism: *H. azteca*

Sample ID (mg NO3-N/L)	Pan No.	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
320	21	A	7	0	3	JAB	1318.~~07~~ KJL 97	1319.19	7	KJL
	22	B	0	4	6	↓	1316.84	/	0	↓
	23	C	3	4	3		1314.~~82~~ KJL 71	1314.82	3	
	24	D	5	1	4		1304.~~02~~ KJL 3-63	1303.81	5	
640	25	A	1	0	9	KLB	1316.~~43~~ 09 KJL	1316.11	1	KJL
	26	B	0	1	9	↓	1319.~~A~~ KJL 39	/	0	↓
	27	C	0	2	8		1316.81	/	0	
	28	D	0	2	8	↓	1312.87	/	0	↓
		A								
		B								
		C								
		D								
		A								
		B								
		C								
		D								
		A								
		B								
		C								
		D								

Comments: ~~Reweighed pan (21) 1319.07~~ JAB

Reviewed by: JAB

Date Reviewed: March 18/11

CETIS Analytical Report

Hyalella 14-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	18-7183-8458	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	14 Jan-11 15:11	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	17-4239-4950	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	30 Dec-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	13 Jan-11	**Species:**	Hyalella azteca	**Brine:**	
Duration:	14d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	20-2183-1246	**Code:**	MHW-NO3	**Client:**	BCMA
Sample Date:	13 Jan-11 13:16	**Material:**	NO3	**Project:**	
Receive Date:	13 Jan-11 13:16	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0.025	7.05%	2.458	0.02787	287	252.4	326.3

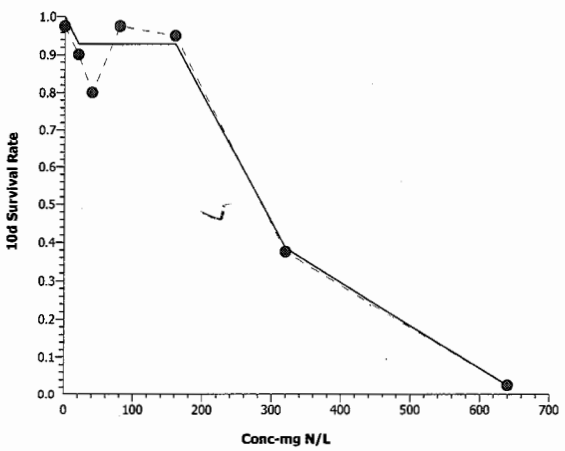
10d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.975	0.9	1	0.009129	0.05	5.13%	0.0%	39	40
20		4	0.9	0.6	1	0.03651	0.2	22.22%	7.69%	36	40
40		4	0.8	0.6	1	0.03333	0.1826	22.82%	17.95%	32	40
80		4	0.975	0.9	1	0.009129	0.05	5.13%	0.0%	39	40
160		4	0.95	0.9	1	0.01054	0.05773	6.08%	2.56%	38	40
320		4	0.375	0	0.7	0.05452	0.2986	79.63%	61.54%	15	40
640		4	0.025	0	0.1	0.009129	0.05	200.0%	97.44%	1	40

10d Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	0.9	1
20		0.6	1	1	1
40		0.9	1	0.6	0.7
80		1	1	0.9	1
160		0.9	1	0.9	1
320		0.7	0	0.3	0.5
640		0.1	0	0	0

Graphics



Hyalella 14-d Survival and Growth Sediment Test

Nautilus Environmental

Analysis ID:	05-7091-2849	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	14 Jan-11 15:11	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	17-4239-4950	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	30 Dec-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	13 Jan-11	**Species:**	Hyalella azteca	**Brine:**	
Duration:	14d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	20-2183-1246	**Code:**	MHW-NO3	**Client:**	BCMA
Sample Date:	13 Jan-11 13:16	**Material:**	NO3	**Project:**	
Receive Date:	13 Jan-11 13:16	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	160	320	226.3		N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		20	0.1794	0.5383	Non-Significant Effect
		40	0.01444	0.0578	Non-Significant Effect
		80	0.7532	0.7532	Non-Significant Effect
		160	0.5	1.0000	Non-Significant Effect
		320	0	<0.0001	Significant Effect
		640	0	<0.0001	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	39	1	40
20		36	4	40
40		32	8	40
80		39	1	40
160		38	2	40
320		15	25	40
640		1	39	40

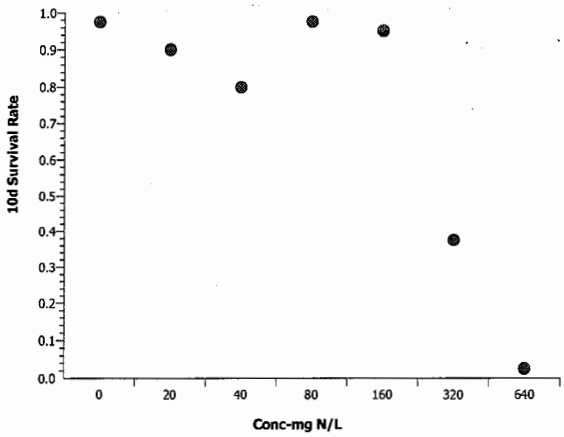
10d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	0.9	1
20		0.6	1	1	1
40		0.9	1	0.6	0.7
80		1	1	0.9	1
160		0.9	1	0.9	1
320		0.7	0	0.3	0.5
640		0.1	0	0	0

Hyalella 14-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	05-7091-2849	**Endpoint:**	~~14d~~ 10d Survival Rate JAB	**CETIS Version:**	CETISv1.7.0
Analyzed:	14 Jan-11 15:11	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Hyalella 14-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	04-6790-4605	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	24 Jan-11 11:49	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes
Batch ID:	17-4239-4950	**Test Type:**	Growth-Survival ~~(10d)~~ 14d JAB	**Analyst:**	
Start Date:	30 Dec-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	13 Jan-11	**Species:**	Hyalella azteca	**Brine:**	
Duration:	14d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	20-2183-1246	**Code:**	MHW-NO3	**Client:**	BCMA
Sample Date:	13 Jan-11 13:16	**Material:**	NO3	**Project:**	
Receive Date:	13 Jan-11 13:16	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Non-Linear Regression Options

Model Function	X Transform	Y Transform	Weighting Function	PTBS Function
3P Log-Logistic EV [Y=A/(1+(X/D)^C)]	None	None	Normal [W=1]	Off [Y*=Y]

Regression Summary

Iters	Log LL	AICc	Adj R2	Optimize	F Stat	Critical	P-Value	Decision(5%)
11	76.896	-146.53	0.5167	Yes	0.24497	2.9647	0.9087	Non-Significant Lack of Fit

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC10	64.285	N/A	118.53
IC15	82.759	N/A	144.04
IC20	100.1	15.995	167.67
IC25	117.12	44.223	189.96
IC40	171	102.35	262.3
IC50	213.38	133.9	340.04

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(5%)
A	0.10709	0.0091783	0.088001	0.12618	11.668	<0.0001	Significant Parameter
C	1.8314	0.82359	0.11866	3.5442	2.2237	0.0373	Significant Parameter
D	213.38	51.361	106.57	320.19	4.1546	0.0004	Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Model	0.0184294	0.0092147	2	13.296	0.0002	Significant
Lack of Fit	0.0007932	0.0001983	4	0.24497	0.9087	Non-Significant
Pure Error	0.0137604	0.0008094	17			
Residual	0.0145535	0.0006930	21			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.5105	2.8016	0.1704	No Outliers Detected
Distribution	Shapiro-Wilk Normality	0.96098		0.4584	Normal Distribution
Control Trend	Mann-Kendall Trend	-2		0.7391	Non-significant Trend in Controls

Mean Dry Weight-mg Summary

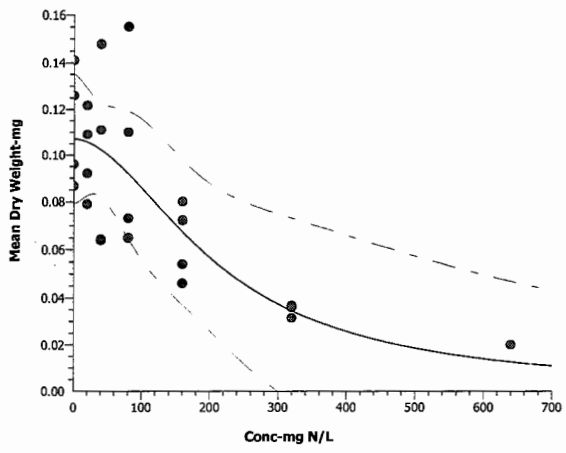
			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.11242	0.08667	0.141	0.0046354	0.025389	22.58%	0.0%
20		4	0.10042	0.079004	0.12166	0.0034233	0.01875	18.67%	10.68%
40		4	0.096769	0.064014	0.14779	0.007404	0.040554	41.91%	13.92%
80		4	0.10075	0.06499	0.155	0.0075115	0.041142	40.84%	10.38%
160		4	0.063058	0.046008	0.079997	0.0028745	0.015744	24.97%	43.91%
320		3	0.034699	0.031424	0.036662	0.0005212	0.0028545	8.23%	69.14%
640		1	0.02002	0.02002	0.02002	0	0	0.0%	82.19%

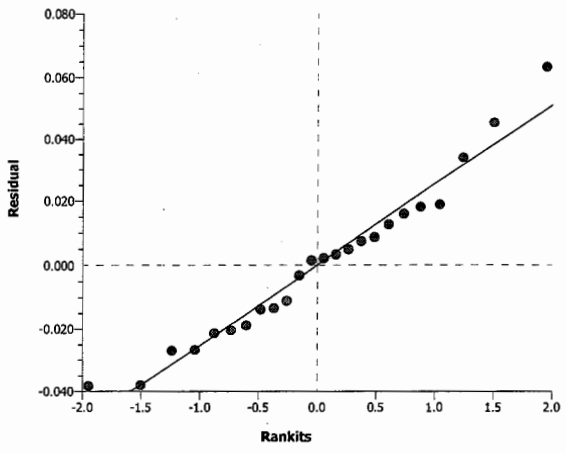
Analysis ID: 04-6790-4605 Endpoint: Mean Dry Weight-mg CETIS Version: CETISv1.7.0
Analyzed: 24 Jan-11 11:49 Analysis: Nonlinear Regression Official Results: Yes

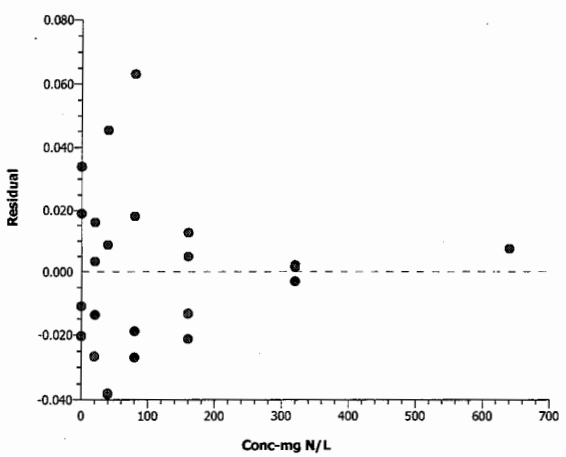
Mean Dry Weight-mg Detail

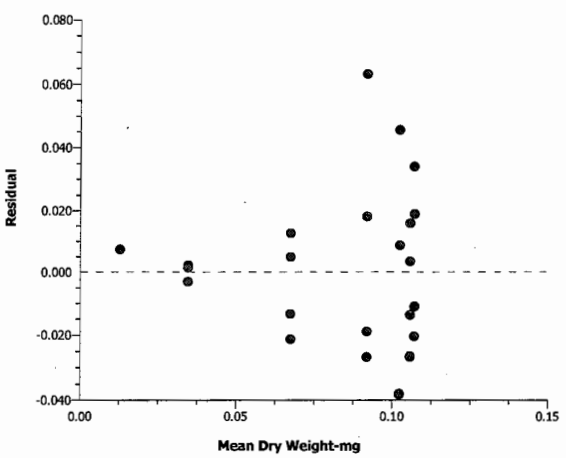
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.141	0.096008	0.08667	0.126
20		0.12166	0.091992	0.079004	0.10901
40		0.14779	0.111	0.064014	0.064279
80		0.06499	0.072998	0.11	0.155
160		0.072225	0.054004	0.079997	0.046008
320		0.031424	0.036662	0.036011	
640		0.02002			

Graphics









CETIS Analytical Report

Hyalella 14-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	18-7224-1304	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:39	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	17-4239-4950	**Test Type:**	Growth-Survival (~~10d~~) 14d JAB	**Analyst:**	
Start Date:	30 Dec-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	13 Jan-11	**Species:**	Hyalella azteca	**Brine:**	
Duration:	14d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	20-2183-1246	**Code:**	MHW-NO3	**Client:**	BCMA
Sample Date:	13 Jan-11 13:16	**Material:**	NO3	**Project:**	
Receive Date:	13 Jan-11 13:16	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	80	160	113.1		46.9%

Dunnett's Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		20	0.5967	2.424	6	0.04877	0.6109	Non-Significant Effect
		40	0.778	2.424	6	0.04877	0.5282	Non-Significant Effect
		80	0.5802	2.424	6	0.04877	0.6183	Non-Significant Effect
		160*	2.454	2.424	6	0.04877	0.0473	Significant Effect
		320*	3.577	2.424	5	0.05267	0.0049	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.01494122	0.002988245	5	3.692	0.0191	Significant Effect
Error	0.01376037	0.0008094333	17			
Total	0.02870159	0.003797678	22			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	10.16	15.09	0.0707	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9511	0.88	0.3085	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.1124	0.1028	0.1221	0.08667	0.141	0.01269	0.02539	22.58%	0.0%
20		4	0.1004	0.09328	0.1075	0.079	0.1217	0.009375	0.01875	18.67%	10.68%
40		4	0.09677	0.08134	0.1122	0.06401	0.1478	0.02028	0.04055	41.91%	13.92%
80		4	0.1007	0.0851	0.1164	0.06499	0.155	0.02057	0.04114	40.84%	10.38%
160		4	0.06306	0.05707	0.06905	0.04601	0.08	0.007872	0.01574	24.97%	43.91%
320		3	0.0347	0.03361	0.03578	0.03142	0.03666	0.001648	0.002854	8.23%	69.13%
640		1	0.02002			0.02002	0.02002	0	0	0.0%	82.19%

Hyalella 14-d Survival and Growth Sediment Test

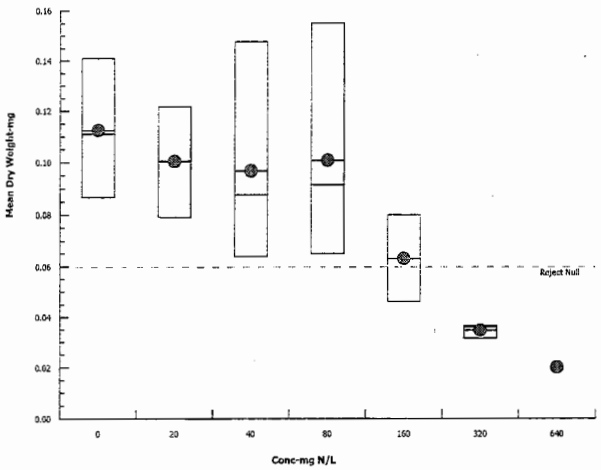
Nautilus Environmental

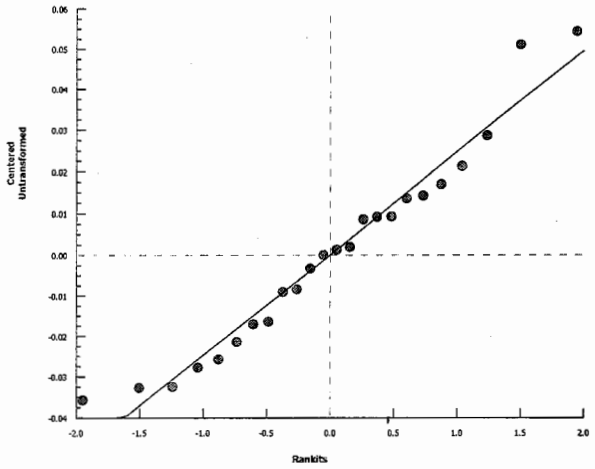
Analysis ID:	18-7224-1304	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:39	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.141	0.09601	0.08667	0.126
20		0.1217	0.09199	0.079	0.109
40		0.1478	0.111	0.06401	0.06428
80		0.06499	0.073	0.11	0.155
160		0.07222	0.054	0.08	0.04601
320		0.03142	0.03666	0.03601	
640		0.02002			

Graphics





H. azteca Test Summary Sheet

Client: MABC

Start Date/Time: JAB ~~Jan 7~~ Dec 30/10 @1200h

Work Order No.: n/a

Test Species: H.azteca

Sample Information:

Sample ID: HW-Nitrate
Sample Date: n/a
Date Received: n/a
Sample Volume: n/a

Dilution Water:

Type: Hard Water (HW)
Hardness (mg/L $CaCO_3$): 172
Alkalinity (mg/L $CaCO_3$): 100

Test Organism Information:

Species: H.azteca
Supplier: Aquatic Bio-Systems (Colorado)
Date received: Dec 29/10
Age/Size (Day0): 6-8 day old

NaCl Reference Toxicant Results:

Reference Toxicant ID: HA42
Stock Solution ID: n/a
Date Initiated: Dec 30/10

96-h LC50 (95% CL): 4.6 (3.8-5.6) g/L NaCl

96-h LC50 Reference Toxicant Mean and 2SD Range: 4.5 (3.0-6.7) g/L NaCl CV (%): 21.9

Test Results:

mg NO_3-N/L	Survival	Mean Dry Weight JAB ~~Biomass~~
LC25 % (v/v) (95% CL)	n/a	
LC50 % (v/v) (95% CL)	>640 mg NO_3-N/L	
IC25 % (v/v) (95% CL)		182 (62.4-258)
IC50 % (v/v) (95% CL)		312 (217-815)

JAB

Reviewed by: JGh

Date reviewed: March 18/11

Chronic *H. azteca* Sediment Toxicity Test Data Sheet

Freshwater Sediment Water Quality

Client: MABC
Work Order No.: n/a
Test Condition: Hard Water - Nitrate

Start Date: 30-Dec-10
Termination Date: 13-Jan-11a
Test Organism: *Hyalella azteca*

Temperature (°C)

Sample ID	Day													
	0	1		"A3		6		8		11		13		14
mg NO3-N/L		old	new	old	new	old	new	old	new	old	new	old	new	
Control	22.0	22.0		22.5	22.5	22.0	22.0	22.5	22.0	23.0	22.0	23.0	22.5	22.5
20	22.0	22.0		22.5	22.0	22.0	22.0	22.0	22.0	23.0	22.0	23.0	22.0	23.0
40	22.0	22.0		22.5	22.0	22.5	22.0	23.0	22.0	22.5	22.0	23.0	22.0	23.0
80	22.0	22.0		23.0	22.0	22.5	22.0	23.0	22.5	23.0	22.0	23.0	22.0	23.0
160	22.0	22.0		23.0	22.0	22.5	22.0	23.0	22.5	23.0	22.0	23.0	22.0	23.0
320	22.0	22.0		23.0	22.0	22.5	22.0	23.0	22.0	23.0	22.0	23.0	22.0	23.0
640	22.0	22.0		23.0	22.0	22.5	22.0	23.0	22.0	23.0	22.0	23.0	22.0	23.0
Technician Initials		KJL						KJL	KJL	KJL	KJL	KJL	KJL	KJL

Conductivity (µS)

Sample ID	Day													
	0	1		"A3		6		8		11		13		14
mg NO3-N/L		old	new	old	new	old	new	old	new	old	new	old	new	
Control	504	510		521	597	571	601	599	603	616	605	619	603	629
20	617	618		617	752	673	759	712	769	742	~~688~~ 764	741	765	758
40	741	746		770	910	820	918	877	924	910	923	916	924	950
80	982	972		968	1221	1078	1235	1158	1240	1207	1257	1217	1237	1236
160	1558	1510		1516	1839	1667	1849	1743	1858	1846	1859	1825	1858	1856
320	2580	2520		2620	3050	2780	3080	2910	3070	3020	3070	3040	3070	3070
640	4780	4640		4660	5580	5060	5390	5240	5410	5410	5426	~~5420~~	5390	5440
Technician Initials		KJL						KJL	KJL	KJL	KJL	KJL	KJL	KJL

Comments:

Reviewed by: JGL
Date Reviewed: March 17/11

Chronic *H. azteca* Sediment Toxicity Test Data Sheet

Freshwater Sediment Water Quality

Client: MABC
Work Order No.: n/a
Test Condition: Hard Water - Nitrate

Start Date: 30-Dec-10
Termination Date: 13-Jan-11
Test Organism: *Hyalella azteca*

Dissolved Oxygen (mg/L)

Sample ID mgNO3-N/L	Day 0	1 old	1 new	#A3 old	#A3 new	6 old	6 new	8 old	8 new	11 old	11 new	13 old	13 new	14
Control	8.0	8.1		8.1	8.1	7.9	8.3	7.9	8.0	7.8	8.2	8.1	8.2	7.8
20	8.0	8.2		8.2	8.2	7.9	8.3	7.9	8.1	8.0	8.1	8.1	7.2	7.7
40	8.1	8.2		8.2	8.2	7.9	8.2	8.0	8.0	8.0	8.3	8.0	7.2	7.8
80	8.0	8.2		8.2	8.2	7.9	8.2	7.9	8.0	8.0	8.3	8.0	7.2	7.7
160	8.0	8.2		8.3	8.2	7.9	8.2	7.9	8.0	7.9	8.3	8.2	7.2	7.7
320	8.0	8.3		8.2	8.2	8.0	8.2	7.9	8.0	7.9	8.3	8.2	7.2	7.7
640	8.0	8.3		8.2	8.2	8.0	8.2	7.9	8.1	8.0	8.3	8.1	7.2	7.8
Technician Initials		KJL						KJL	KJL	KJL	KJL	KJL	KJL	

pH

Sample ID mgNO3-N/L	Day 0	1 old	1 new	#A3 old	#A3 new	6 old	6 new	8 old	8 new	11 old	11 new	13 old	13 new	14
Control	7.8	7.5		7.6	8.1	7.9	8.2	7.9	8.1	8.0	8.2	8.1	8.2	8.1
20	7.7	7.5		7.6	8.1	7.9	8.1	7.9	7.9	7.9	8.2	8.0	8.3	8.1
40	7.8	7.5		7.6	8.1	7.9	8.1	7.9	8.1	8.0	8.2	8.1	8.3	8.1
80	7.7	7.5		7.6	8.1	7.9	8.1	7.9	8.1	8.0	8.2	8.1	8.3	8.1
160	7.7	7.5		7.6	8.1	7.9	8.1	7.9	8.1	7.9	8.2	8.1	8.3	8.1
320	7.6	7.4		7.5	8.1	7.8	8.1	7.9	8.1	7.9	8.2	8.0	8.2	8.0
640	7.6	7.4		7.4	8.1	7.8	8.1	7.8	8.1	7.8	8.1	8.0	8.2	8.0
Technician Initials		KJL						KJL	KJL	KJL	KJL	KJL	KJL	KJL

Comments:

Reviewed by: JGL Date Reviewed: March 17/11

H. azteca Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC

Work Order No.: n/a

Test Condition: **Hard Water - Nitrate**

Start Date: 30-Dec-10 @ 1200h

Termination Date: 13-Jan-11 @ 1200h

Test Organism: *H. azteca*

Sample ID (mg NO3-N/L)	Pan No. (range)	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	1	A	10	0	0	QW	1294.26	1295.45	10	KJL
	2	B	10	0	0	↓	1294.20	1295.22	10	↓
	3	C	10	0	0	↓	1297.91	1298.92	10	↓
	4	D	7 ③	0	3	↓	1297.78	1298.32	7	↓
20	5	A	10	0	0	BPL	1296.32	1297.41	10	KJL
	6	B	10	0	0	BPL	1290.96	1291.90	10	↓
	7	C	8	0	2	QW	1293.23	1294.01	8	↓
	8	D	9	0	1	QW	1291.25	1291.93	9	↓
40	9	A	10	0	0	KJL	1300.73	1301.94	10	KJL
	10	B	10	0	0	↓	1302.82	1303.67	10	↓
	11	C	10	0	0	↓	1289.89	1290.77	10	↓
	12	D	7 ②	0	3	↓	1297.51	1298.01	7	↓
80	13	A	9 ①	0	1	KLB	1307.40	1308.31	9	KJL
	14	B	8 ②	1	1	↓	1297.85	1298.93	8	↓
	15	C	7 ①	0	3	↓	1291.01	1291.77	7	↓
	16	D	8	1	1	↓	1312.88	1313.78	8	↓
160	17	A	9	1	0	JKB	1305.85	1306.92	9	KJL
	18	B	10	0	0	↓	1292.96	1293.73	10	↓
	19	C	9	0	1	↓	1304.27	1304.80	9	↓
	20	D	10	0	0	↓	1310.12	1310.80	10	↓

Comments: ①Checked by KJL ②Checked by EBS ③checked by KLB

Reweighed pans ⑨ 1301.88 ⑰ 1306.88

Reviewed by: JGL

Date Reviewed: March 17/11

H. azteca Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC

Work Order No.: n/a

Test Condition: **Hard Water - Nitrate**

Start Date: 30-Dec-10 @1200h

Termination Date: 13-Jan-11 @1200h

Test Organism: *H. azteca*

Sample ID (mg NO3-N/L)	Pan No.	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
320	21	A	10	0	0	QW	1298.42	1298.88	10	KJL
	22	B	8	2	0	↓	1308.34	1308.69	8	↓
	23	C	10	0	0	↓	1306.49	1306.98	10	↓
	24	D	10	0	0	↓	1298.94	1299.50	10	↓
640	25	A	9	0	1	KJL	1296.46	1296.93	9	KJL
	26	B	8①	1	1	KLB	1305.~~75~~53 KJL	1305.83	8	↓
	27	C	8①	0	2	KLB	1293.97	1294.27	8	↓
	28	D	10	0	0	KLB	1296.56	1296.92	②8	↓
		A								
		B								
		C								
		D								
		A								
		B								
		C								
		D								
		A								
		B								
		C								
		D								

Comments: ①Checked by KJL ② 2 organisms lost in transfer
Reweighed pan ②8 1296.92

Reviewed by: JGL

Date Reviewed: March 17/11

CETIS Analytical Report

Hyalella 14-d Survival and Growth Sediment Test 14d JAB — **Nautilus Environmental**

Analysis ID:	18-4216-3895	**Endpoint:**	~~10d~~ Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	14 Jan-11 15:12	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	17-4239-4950	**Test Type:**	Growth-Survival (~~10d~~ 14d)	**Analyst:**	
Start Date:	30 Dec-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	~~Mod-Hard Synthetic Water~~ JAB
Ending Date:	13 Jan-11	**Species:**	Hyalella azteca	**Brine:**	Hard Water
Duration:	14d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	13-7768-4925	**Code:**	521DCDBD	**Client:**	BCMA
Sample Date:	14 Jan-11 14:54	**Material:**	NO3	**Project:**	
Receive Date:	14 Jan-11 14:54	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	640	>640	N/A		N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		20	0.6624	1.0000	Non-Significant Effect
		40	0.6624	1.0000	Non-Significant Effect
		80	0.09633	0.5780	Non-Significant Effect
		160	1	1.0000	Non-Significant Effect
		320	1	1.0000	Non-Significant Effect
		640	0.3559	1.0000	Non-Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	37	3	40
20		37	3	40
40		37	3	40
80		32	8	40
160		38	2	40
320		38	2	40
640		35	5	40

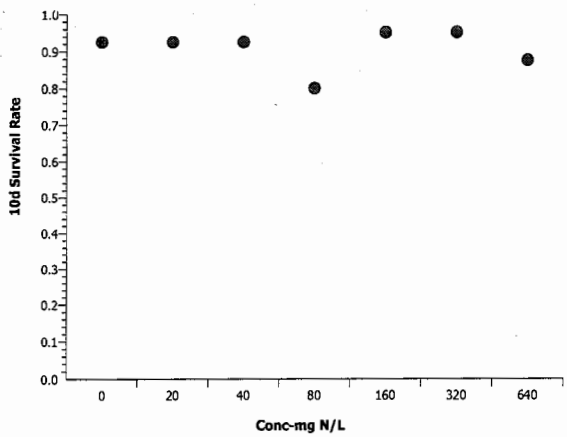
10d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.7
20		1	1	0.8	0.9
40		1	1	1	0.7
80		0.9	0.8	0.7	0.8
160		0.9	1	0.9	1
320		1	0.8	1	1
640		0.9	0.8	0.8	1

Hyalella 14-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	18-4216-3895	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	14 Jan-11 15:12	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Hyalella 14-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	10-7168-0603	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	24 Jan-11 11:51	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	17-4239-4950	**Test Type:**	Growth-Survival (~~10~~ 14d)	**Analyst:**	
Start Date:	30 Dec-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	~~Mod-Hard-Synthetic-Water~~ JAB Hard Water
Ending Date:	13 Jan-11	**Species:**	Hyalella azteca	**Brine:**	
Duration:	14d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	13-7768-4925	**Code:**	521DCDBD	**Client:**	BCMA
Sample Date:	14 Jan-11 14:54	**Material:**	NO3	**Project:**	
Receive Date:	14 Jan-11 14:54	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.5376	2.8762	0.1985	No Outliers Detected
Control Trend	Mann-Kendall Trend	-6		0.0435	Significant Trend in Controls

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	18.685	N/A	262.6
IC10	101.94	N/A	232.47
IC15	130.53	N/A	237.08
IC20	163.06	N/A	241.96
IC25	181.69	62.385	257.97
IC40	251.25	103.49	306.59
IC50	311.78	216.65	815.36

Mean Dry Weight-mg Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	0.099782	0.077131	0.11899	0.0031422	0.01721	17.25%	0.0%
20		4	0.09402	0.075562	0.10901	0.0025331	0.013875	14.76%	5.77%
40		4	0.091359	0.071429	0.121	0.0038401	0.021033	23.02%	8.44%
80		4	0.098675	0.07251	0.1125	0.0032994	0.018072	18.31%	1.11%
160		4	0.080699	0.058892	0.1189	0.0048412	0.026517	32.86%	19.13%
320		4	0.048687	0.043747	0.056006	0.0009736	0.0053325	10.95%	51.21%
640		4	0.043057	0.037491	0.052233	0.0012899	0.0070652	16.41%	56.85%

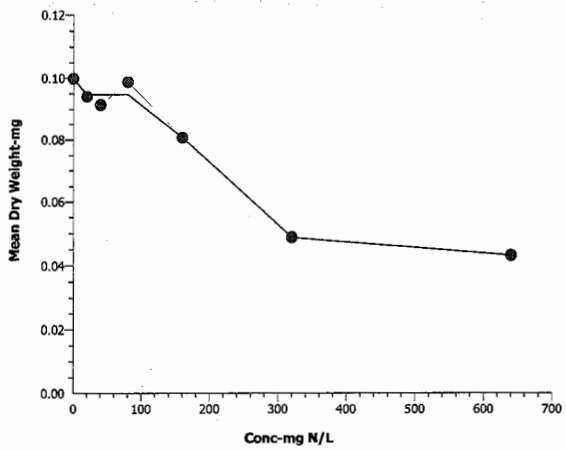
Mean Dry Weight-mg Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.11899	0.102	0.101	0.077131
20		0.10901	0.094006	0.097504	0.075562
40		0.121	0.08501	0.088	0.071429
80		0.10111	0.07251	0.10857	0.1125
160		0.1189	0.077002	0.058892	0.068005
320		0.045996	0.043747	0.048999	0.056006
640		0.052233	0.037491	0.037506	0.044998

Hyalella 14-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	10-7168-0603	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	24 Jan-11 11:51	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Hyalella 14-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	07-3374-9954	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:39	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	17-4239-4950	**Test Type:**	Growth-Survival (14d) JAB	**Analyst:**	
Start Date:	30 Dec-10	**Protocol:**	EC/EPS 1/RM/33	**Diluent:**	~~Mod-Hard Synthetic Water~~ JAB
Ending Date:	13 Jan-11	**Species:**	Hyalella azteca	**Brine:**	Hard Water
Duration:	14d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	13-7768-4925	**Code:**	521DCDBD	**Client:**	BCMA
Sample Date:	14 Jan-11 14:54	**Material:**	NO3	**Project:**	
Receive Date:	14 Jan-11 14:54	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	160	320	226.3		29.6%

Dunnett's Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		20	0.4774	2.448	6	0.02954	0.6903	Non-Significant Effect
		40	0.6979	2.448	6	0.02954	0.5932	Non-Significant Effect
		80	0.09171	2.448	6	0.02954	0.8309	Non-Significant Effect
		160	1.581	2.448	6	0.02954	0.2221	Non-Significant Effect
		320*	4.234	2.448	6	0.02954	0.0010	Significant Effect
		640*	4.7	2.448	6	0.02954	0.0003	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.01363792	0.002272987	6	7.803	0.0002	Significant Effect
Error	0.006117474	0.0002913083	21			
Total	0.01975539	0.002564295	27			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	8.186	16.81	0.2248	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9618	0.8975	0.3846	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.09978	0.09324	0.1063	0.07713	0.119	0.008605	0.01721	17.25%	0.0%
20		4	0.09402	0.08874	0.0993	0.07556	0.109	0.006937	0.01387	14.76%	5.78%
40		4	0.09136	0.08336	0.09936	0.07143	0.121	0.01052	0.02103	23.02%	8.44%
80		4	0.09868	0.0918	0.1055	0.07251	0.1125	0.009036	0.01807	18.31%	1.11%
160		4	0.0807	0.07061	0.09079	0.05889	0.1189	0.01326	0.02652	32.86%	19.12%
320		4	0.04869	0.04666	0.05072	0.04375	0.05601	0.002666	0.005333	10.95%	51.21%
640		4	0.04306	0.04037	0.04574	0.03749	0.05223	0.003533	0.007065	16.41%	56.85%

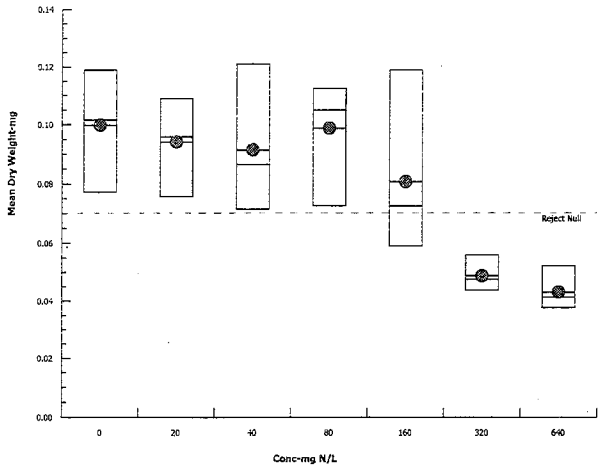
Hyalella 14-d Survival and Growth Sediment Test — Nautilus Environmental

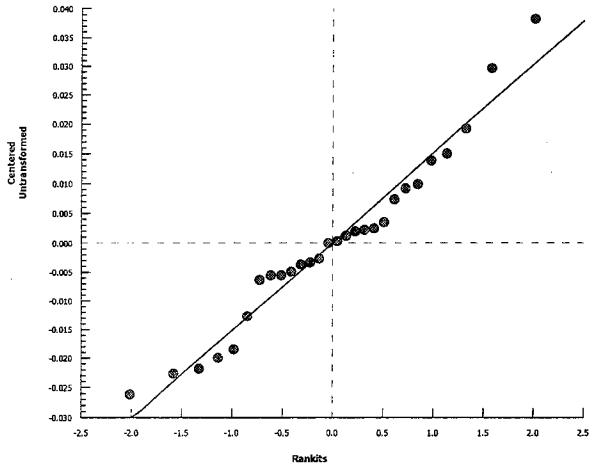
Analysis ID:	07-3374-9954	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:39	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.119	0.102	0.101	0.07713
20		0.109	0.09401	0.0975	0.07556
40		0.121	0.08501	0.088	0.07143
80		0.1011	0.07251	0.1086	0.1125
160		0.1189	0.077	0.05889	0.06801
320		0.046	0.04375	0.049	0.05601
640		0.05223	0.03749	0.03751	0.045

Graphics





Client: MABC

W.O.#: n/a

Hardness and Alkalinity Datasheet

	Alkalinity						Hardness			
Sample ID	Sample Date	Sample Volume (mL)	(mL) 0.02N HCL/H_2SO_4 used to pH 4.5	(mL) of 0.02N HCL/H_2SO_4 used to pH 4.2	Total Alkalinity ($mg/LCaCO_3$)		Sample Volume (mL)	Volume of 0.01M EDTA Used (mL)	Total Hardness ($mg/L\ CaCO_3$)	Technician
SW	Dec 29/10	50	1.2	1.3	22		50	2.3	46	KJL
MHW	Dec29/10	50	2.5 KJL	2.6	48		50	4.3	86	KJL
HW	Dec29/10	50	5.1	5.2	100		50	8.6	172	KJL

Notes: H. azteca

Reviewed by: JGU

Date Reviewed: March 17/11

APPENDIX F – *Chironomus dilutus* tests

Chironomus dilutus Test Summary Sheet

Client: MABC

Start Date/Time: Jan 7/11 @ 1200h

Work Order No.: n/a

Test Species: Chironomus dilutus

Sample Information:

Sample ID: SW - Nitrate
Sample Date: n/a
Date Received: n/a
Sample Volume: n/a

Dilution Water:

Type: Soft Water (SW)
Hardness (mg/L $CaCO_3$): 46
Alkalinity (mg/L $CaCO_3$): 22

Test Organism Information:

Species: C. dilutus
Supplier: Aquatic Bio-Systems (Colorado)
Date received: Jan 6/11
Age/Size (Day0): Beginning of third instar

KCl Reference Toxicant Results:

Reference Toxicant ID: CT20
Stock Solution ID: n/a
Date Initiated: Jan 7/11

96-h LC50 (95% CL): 5.2 (3.9 - 7.0) g/L KCl

96-h LC50 Reference Toxicant Mean and Range: 6.7 (4.6 - 9.9) g/L KCl CV (%): 20.9

Test Results:

mg NO_3-N/L	Survival	Mean Dry Weight ~~Biomass~~ JAB
LC25 % (v/v) (95% CL)	n/a	
LC50 % (v/v) (95% CL)	114 (96.7 - 135)	
IC25 % (v/v) (95% CL)		49.0 (36.4 - 74.1)
IC50 % (v/v) (95% CL)		73.4 (50.5 - 132)

JAB

Reviewed by: JOh

Date reviewed: March 18/11

C. ~~tentans~~ dilutus Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC
Work Order No.: n/a
Test Condition: **Soft Water - Nitrate**

Start Date: 7-Jan-10 1a @ 1200h
Termination Date: 17-Jan-10 1a @ 1200h
Test Organism: *Chironomus ~~tentans~~ dilutus*

Sample ID (Mg NO3-N/L)	Pan No. (Purple)	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	1	A	10	0	0	EW	1304.10	1319.92	10	KJL
	2	B	10	0	0		1300.51	1317.31	10	
	3	C	10	0	0		1303.17	1318.67	10	
	4	D	9	0	1		1309.18	1326.49	9	
10	5	A	10	0	0	KJL	1318.6~~50~~ KJL	1333.61	10	KJL
	6	B	10	0	0		1309.66	1322.16	10	
	7	C	10	0	0		1303.42	1317.67	10	
	8	D	10	0	0		1316.38	1331.82	10	
20	9	A	10	0	0	JAB	1282.30	1296.66	10	KJL
	10	B	10	0	0		1304.81	1319.26	10	
	11	C	9	0	1		1306.25	1319.94	9	
	12	D	9	0	1		1313.37	1326.18	9	
40	13	A	10	0	0	BRL	1309.16	1324.02	10	KJL
	14	B	10	0	0	BRL	1311.83	1327.36	10	
	15	C	8①	0	2	BRL	1317.03	1331.97	8	
	16	D	10	0	0	BRL	1319.47	1331.70	10	
80	17	A	8 ②	0	2	EW	1317.88	1329.38	8	KJL
	18	B	7	0	3		1315.99	1321.49	7	
	19	C	4	0	6		1308.46	1309.81	4	
	20	D	3	0	7		1317.83	1319.17	3	

Comments: ① Checked by EGS ② checked by JAB.
Reweighed pans ⑤ 1333.59 ⑭ 1327.38

Reviewed by: JGL
Date Reviewed: March 16/11

C. ~~tentans~~ dilutus Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC
Work Order No.: n/a
Test Condition: **Soft Water - Nitrate**

Start Date: 7-Jan-11 @ 1200h
Termination Date: 17-Jan-11 @ 1200h
Test Organism: *Chironomus ~~tentans~~ dilutus*

Sample ID (mg NO3-N/L)	Pan No. (purple)	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
160	21	A	7 ①	0	3	KJL	1315.07	1316.95	7	KJL
	22	B	6 ②	0	4	↓	1319.48	1321.35	6	↓
	23	C	1 ①	0	9	↓	1324 ~~30~~ 34	1324.85	1	↓
	24	D	7	0	3	↓	1323.43	1326.91	7	↓
320	25	A	0 ①	0	10	JAB	1313.43	—	0	KJL
	26	B	0	0	10	↓	1302.76	—	0	↓
	27	C	0	0	10	↓	1307.75	—	0	↓
	28	D	0	0	10	↓	1292.43	—	0	↓
		A								
		B								
		C								
		D								
		A								
		B								
		C								
		D								
		A								
		B								
		C								
		D								

Comments: ① Checked by EGS ② checked by KLB
Reweighed pan (24) 1326.89

Reviewed by: JGL
Date Reviewed: March 16/11

CETIS Analytical Report

Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	20-4640-6642	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	21 Jan-11 10:56	**Analysis:**	Untrimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	~~Mod-Hard Synthetic Water~~ JAB Soft Water
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ dilutus	**Brine:**	
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	03-6175-8139	**Code:**	SW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:18	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:18	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0.025	0.00%	2.0574	0.035898	114.13	96.743	134.65

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Control Trend	Mann-Kendall Trend	0		1.0000	Non-significant Trend in Controls

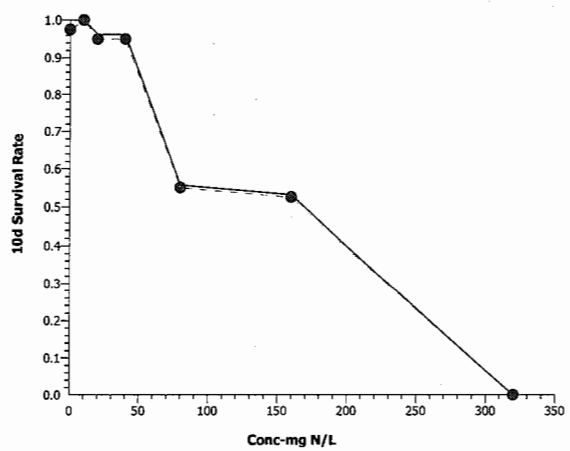
10d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.975	0.9	1	0.0091287	0.05	5.13%	0.0%	39	40
10		4	1	1	1	0	0	0.0%	-2.56%	40	40
20		4	0.95	0.9	1	0.010541	0.057735	6.08%	2.56%	38	40
40		4	0.95	0.8	1	0.018257	0.1	10.53%	2.56%	38	40
80		4	0.55	0.3	0.8	0.043461	0.23805	43.28%	43.59%	22	40
160		4	0.525	0.1	0.7	0.05244	0.28723	54.71%	46.15%	21	40
320		4	0	0	0	0	0		100.0%	0	40

10d Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.9
10		1	1	1	1
20		1	1	0.9	0.9
40		1	1	0.8	1
80		0.8	0.7	0.4	0.3
160		0.7	0.6	0.1	0.7
320		0	0	0	0

Graphics



CETIS Analytical Report

Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	07-3186-8881	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	21 Jan-11 11:02	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	~~Mod-Hard Synthetic Water~~ Soft Water JAB
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ dilutus	**Brine:**	
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	03-6175-8139	**Code:**	SW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:18	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:18	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	40	80	56.569		N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		10	1	1.0000	Non-Significant Effect
		20	0.5	1.0000	Non-Significant Effect
		40	0.5	1.0000	Non-Significant Effect
		80	4.026E-06	<0.0001	Significant Effect
		160	1.524E-06	<0.0001	Significant Effect
		320	0	<0.0001	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	39	1	40
10		40	0	40
20		38	2	40
40		38	2	40
80		22	18	40
160		21	19	40
320		0	40	40

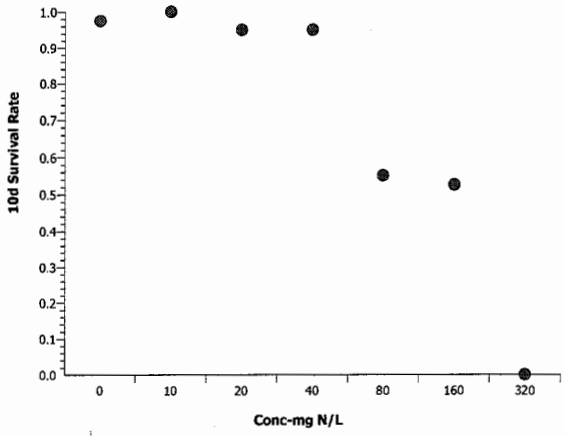
10d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	1	0.9
10		1	1	1	1
20		1	1	0.9	0.9
40		1	1	0.8	1
80		0.8	0.7	0.4	0.3
160		0.7	0.6	0.1	0.7
320		0	0	0	0

Chironomus 10-d Survival and Growth Sediment Test **Nautilus Environmental**

Analysis ID:	07-3186-8881	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	21 Jan-11 11:02	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	05-0240-3084	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	24 Jan-11 11:53	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	~~Mod Hard Synthetic Water~~ JHB
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ sp. *dilutus*	**Brine:**	Soft Water
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	03-6175-8139	**Code:**	SW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:18	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:18	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Control Trend	Mann-Kendall Trend	2		0.7391	Non-significant Trend in Controls

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	1.6141	0.29111	63.988
IC10	5.8337	0.010569	67.221
IC15	41.676	N/A	54.223
IC20	45.203	N/A	63.099
IC25	49.022	36.427	74.113
IC40	62.478	44.793	113.34
IC50	73.404	50.49	132.27

Mean Dry Weight-mg Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.6838	1.55	1.9233	0.030849	0.16897	10.04%	0.0%
10		4	1.4325	1.25	1.544	0.024027	0.1316	9.19%	14.93%
20		4	1.4564	1.4233	1.5211	0.0080456	0.044068	3.03%	13.51%
40		4	1.5324	1.223	1.8675	0.048373	0.26495	17.29%	9.0%
80		4	0.75186	0.33752	1.4375	0.090434	0.49533	65.88%	55.35%
160		4	0.39685	0.26857	0.51001	0.022749	0.1246	31.4%	76.43%

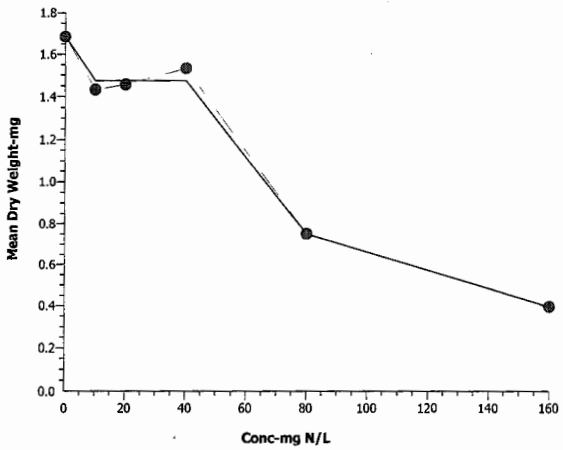
Mean Dry Weight-mg Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.582	1.68	1.55	1.9233
10		1.511	1.25	1.425	1.544
20		1.436	1.445	1.5211	1.4233
40		1.486	1.553	1.8675	1.223
80		1.4375	0.78571	0.33752	0.4467
160		0.26857	0.31167	0.51001	0.49714

Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	05-0240-3084	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	24 Jan-11 11:53	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	11-0650-6097	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	~~Mod-Hard Synthetic Water~~ Soft Water JAB
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ dilutus	**Brine:**	
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	03-6175-8139	**Code:**	SW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:18	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:18	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	40	80	56.57		25.4%

Dunnett's Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		10	1.414	2.407	6	0.4277	0.2565	Non-Significant Effect
		20	1.28	2.407	6	0.4277	0.3055	Non-Significant Effect
		40	0.8524	2.407	6	0.4277	0.4883	Non-Significant Effect
		80*	5.245	2.407	6	0.4277	0.0002	Significant Effect
		160*	7.243	2.407	6	0.4277	<0.0001	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	5.238987	1.047797	5	16.59	<0.0001	Significant Effect
Error	1.136649	0.06314719	18			
Total	6.375637	1.110945	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	14.63	15.09	0.0121	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9191	0.884	0.0558	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	1.684	1.62	1.748	1.55	1.923	0.08448	0.169	10.03%	0.0%
10		4	1.432	1.382	1.483	1.25	1.544	0.0658	0.1316	9.19%	14.93%
20		4	1.456	1.44	1.473	1.423	1.521	0.02203	0.04407	3.03%	13.51%
40		4	1.532	1.432	1.633	1.223	1.867	0.1325	0.2649	17.29%	9.0%
80		4	0.7519	0.5634	0.9403	0.3375	1.438	0.2477	0.4953	65.88%	55.35%
160		4	0.3968	0.3495	0.4442	0.2686	0.51	0.0623	0.1246	31.4%	76.43%

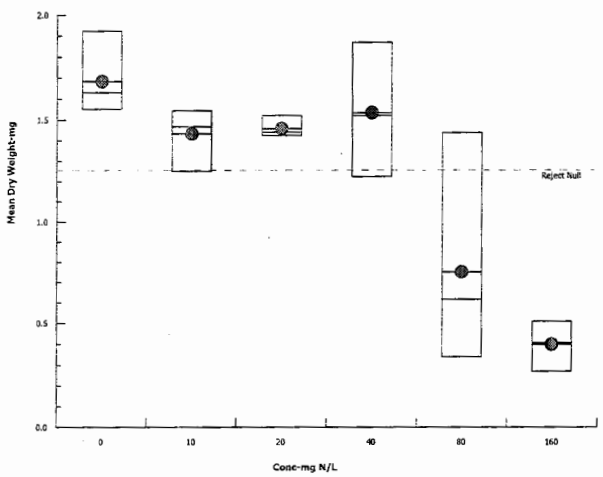
Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

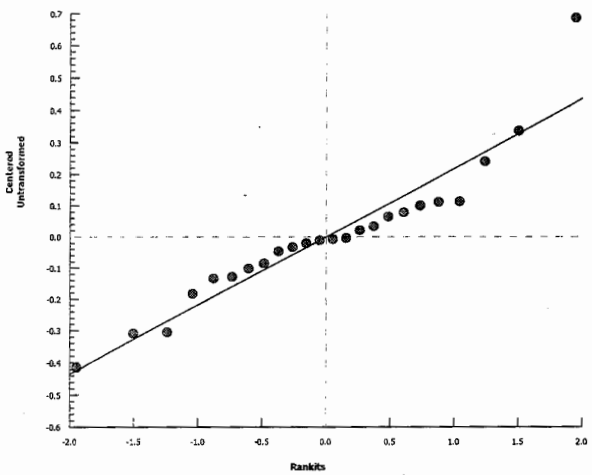
Analysis ID:	11-0650-6097	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:32	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.582	1.68	1.55	1.923
10		1.511	1.25	1.425	1.544
20		1.436	1.445	1.521	1.423
40		1.486	1.553	1.867	1.223
80		1.438	0.7857	0.3375	0.4467
160		0.2686	0.3117	0.51	0.4971

Graphics





Chironomus dilutus Test Summary Sheet

Client: MABC

Start Date/Time: Jan 7/11 @ 1200h

Work Order No.: n/a

Test Species: C. dilutus

Sample Information:

Sample ID: MHW - Nitrate
Sample Date: n/a
Date Received: n/a
Sample Volume: n/a

Dilution Water:

Type: Moderately Hard Water (MHW)
Hardness (mg/L $CaCO_3$): 86
Alkalinity (mg/L $CaCO_3$): 48

Test Organism Information:

Species: C. dilutus
Supplier: Aquatic Bio-Systems (Colorado)
Date received: Jan 6/11
Age/Size (Day 0): Beginning of third instar

KCl Reference Toxicant Results:

Reference Toxicant ID: CT20
Stock Solution ID: n/a
Date Initiated: Jan 7/11

96-h LC50 (95% CL): 5.2 (3.9-7.0) g/L KCl

96-h LC50 Reference Toxicant Mean and Range: 6.7 (4.6-9.9) g/L KCl CV (%): 20.9

Test Results:

mg NO_3-N/L	Survival	Mean Dry Weight ~~Biomass~~
LC25 % (v/v) (95% CL)	n/a	
LC50 % (v/v) (95% CL)	220 (190 - 255)	
IC25 % (v/v) (95% CL)		101 (87.6 - 115)
IC50 % (v/v) (95% CL)		147 (116-189)

JAB

Reviewed by: JGe

Date reviewed: March 18/11

Chronic *C. ~~tentans~~ dilutus* Sediment Toxicity Test Data Sheet

Freshwater Sediment Water Quality

Client: MABC
Work Order No.: n/a
Test Condition: MHW - Nitrate

Start Date: 7-Jan-11 @ 1200h
Termination Date: 17-Jan-11 @ 1200h
Test Organism: *Chironomus ~~tentans~~ dilutus*

Temperature (°C)

Sample ID mg NO3-N/L	Day 0	3 old	3 new	5 old	5 new	7 old	7 new	10
Control	22.5	23.0	22.0	22.5	22.5	22.5	22.0	23.0
20	22.5	23.0	22.0	22.5	22.5	22.5	22.0	23.0
40	22.5	23.0	22.0	22.5	22.5	22.5	22.0	23.0
80	22.5	23.0	22.0	22.5	22.5	22.5	22.0	23.0
160	22.5	23.0	22.0	22.5	22.5	22.5	22.0	23.0
320	23.0	23.0	22.0	22.5	22.0	22.5	22.0	23.0
640	23.0	23.0	22.0	22.5	22.0	22.5	22.0	23.0
Technician Initials		KJL	KJL	KJL	KJL	KJL	KJL	EGS

Conductivity (µS)

Sample ID mg NO3-N/L	Day 0	3 old	3 new	5 old	5 new	7 old	7 new	10
Control	256	289	324	311	322	338	326	346
20	389	405	491	446	491	479	492	491
40	551	555	640	612	655	634	655	656
80	850	889	971	946	968	959	968	986
160	1393	1117	1600	1671	1597	1554	1563	1614
320	2470	2330	2830	2850	2820	2660	2810	2750
640	4430	4210	5190	4430	5180	4900	5170	5050
Technician Initials			KJL	KJL	KJL	KJL	KJL	EGS

Comments:

Reviewed by: JCL

Date Reviewed: March 16/11

Chronic *C. ~~tentans~~ dilutus* Sediment Toxicity Test Data Sheet

Freshwater Sediment Water Quality

Client: MABC
Work Order No.: n/a
Test Condition: MHW - Nitrate

Start Date: 7-Jan-10 @ 1200h
Termination Date: 17-Jan-10 @ 1200h
Test Organism: *Chironomus ~~tentans~~ dilutus*

Dissolved Oxygen (mg/L)

Sample ID mgNO3-N/L	Day 0	3 old	3 new	5 old	5 new	7 old	7 new	10
Control	7.8	7.5	8.3	7.9	8.3	8.0	8.2	7.8
20	7.9	7.9	8.3	8.0	7.1	8.0	8.2	7.7
40	7.9	7.9	8.4	8.1	7.1	8.0	8.3	7.7
80	7.9	8.0	8.4	8.2	7.2	8.0	8.3	7.7
160	7.9	7.9	8.5	8.2	7.1	8.0	8.3	7.7
320	7.9	7.9	8.2	8.2	7.1	8.0	8.3	7.8
640	8.0	7.9	8.3	8.1	7.2	8.0	8.3	7.7
Technician Initials		KJL	KJL	KJL	KJL	KJL	KJL	EGS

pH

Sample ID mgNO3-N/L	Day 0	3 old	3 new	5 old	5 new	7 old	7 new	10
Control	7.1	7.3	7.8	7.8	8.0	7.8	7.9	7.7
20	7.1	7.2	7.9	7.7	8.0	7.8	7.7	7.7
40	7.1	7.3	7.9	7.7	8.0	7.8	7.8	7.7
80	7.2	7.0	7.8	7.8	7.9	7.8	7.8	7.9
160	7.2	7.3	7.8	7.7	7.9	7.7	7.7	7.8
320	7.2	7.4	7.8	7.8 / 7.7	7.9	7.9	7.7	8.0
640	7.2	7.3	7.8		7.9	7.8	7.7	8.0
Technician Initials		KJL	KJL	KJL	KJL	KJL	KJL	EGS

Comments:

Reviewed by: JGL

Date Reviewed: March 16/10

C. ~~tentans~~ dilutus Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC
Work Order No.: n/a
Test Condition: **MHW - Nitrate**

Start Date: 7-Jan-10 @ 1200h
Termination Date: 17-Jan-10 @ 1200h
Test Organism: *Chironomus ~~tentans~~ dilutus*

Sample ID (mg NO3-N/L)	Pan No. (Green)	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	1	A	9 ①	0	1	QW	1299.89	1314.212 KJL	9	KJL
	2	B	10	0	0		1310.12	1326.34	10	
	3	C	9 ⑧	0	1		1307.71	1320.99	9	
	4	D	9 ⑨	0	1		1307.08	1321.30	9	
20	5	A	9①	0	1	KLB	1301.71	1315.51	9	KJL
	6	B	9①	0	1		1304.73	1318.75	9	
	7	C	10	0	0		1299.22	1311.85	10	
	8	D	10	0	0		1307.53	1320.60	10	
40	9	A	10	0	0	JAB	1306.09	1321.16	10	KJL
	10	B	8	0	2		1303.95	1314.58	8	
	11	C	9	0	1		1303.80	1317.11	9	
	12	D	10	0	0		1302.23	1316.50	10	
80	13	A	9①	0	1	KLB	1307.98	1321.04	9	KJL
	14	B	7①	0	3		1307.12	1318.01	7	
	15	C	8①	0	2		1291.73	1302.46	8	
	16	D	9	0	1		1308.84	1320.47	9	
160	17	A	9	0	1	QW	1303.77	1307.77	9	KJL
	18	B	9	0	1		1306.27	1311.16	9	
	19	C	7	0	3		1309.02	1314.76	7	
	20	D	6 ②	0	4		1307.96	1313.77	6	

Comments: ①Checked by KJL ②checked by JAB
Reweighed pans: ②1326.25 ⑰1307.64 ⑨1320.39 ⑬1320.78

Reviewed by: JGh
Date Reviewed: March 16/11

C. ~~tentans~~ dilutus Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC
Work Order No.: n/a
Test Condition: **MHW - Nitrate**

Start Date: 7-Jan-10 @ 1200h
Termination Date: 17-Jan-10 @ 1200h
Test Organism: *Chironomus ~~tentans~~ dilutus*

Sample ID (mg NO3-N/L)	Pan No. (green)	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
320	21	A	3	0	7	KJL	1309.95	1310.33	3	KJL
	22	B	4	0	6	↓	1312.11	1312.70	4	↓
	23	C	10	0	9		1307.78	1308.01	1	
	24	D	20	0	8		1304.04	1304.52	2	
640	25	A	0	0	10	JKB	1308.90	/	0	KJL
	26	B	0	1	9	↓	1305.43	/	0	↓
	27	C	0	0	10		1312.62	/	0	
	28	D	0	1	9		1305.92	/	0	
		A								
		B								
		C								
		D								
		A								
		B								
		C								
		D								
		A								
		B								
		C								
		D								

Comments: ① checked by EGS ② checked by KLB
~~Reweighed pan (22) 1312.59 JKB~~

Reviewed by: JGh
Date Reviewed: March 16/11

CETIS Analytical Report

Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	06-0153-8186	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	21 Jan-11 10:58	**Analysis:**	Untrimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ dilutus	**Brine:**	
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	16-5543-8019	**Code:**	MHW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:21	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:21	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0.075	0.00%	2.3426	0.032198	220.09	189.76	255.26

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	1.8714	2.8762	1.0000	No Outliers Detected
Control Trend	Mann-Kendall Trend	2		0.7391	Non-significant Trend in Controls

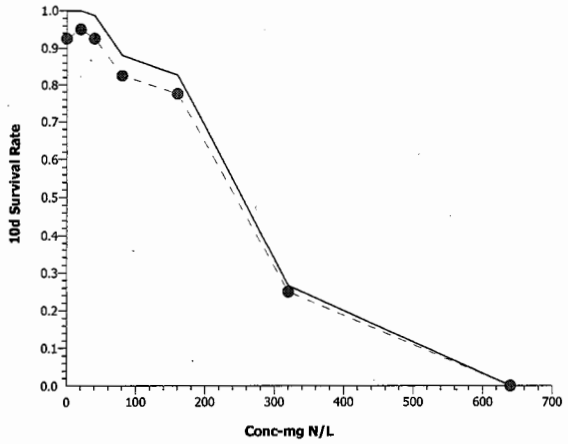
10d Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.925	0.9	1	0.0091287	0.05	5.41%	0.0%	37	40
20		4	0.95	0.9	1	0.010541	0.057735	6.08%	-2.7%	38	40
40		4	0.925	0.8	1	0.01748	0.095743	10.35%	0.0%	37	40
80		4	0.825	0.7	0.9	0.01748	0.095743	11.61%	10.81%	33	40
160		4	0.775	0.6	0.9	0.027386	0.15	19.36%	16.22%	31	40
320		4	0.25	0.1	0.4	0.02357	0.1291	51.64%	72.97%	10	40
640		4	0	0	0	0	0		100.0%	0	40

10d Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9	1	0.9	0.9
20		0.9	0.9	1	1
40		1	0.8	0.9	1
80		0.9	0.7	0.8	0.9
160		0.9	0.9	0.7	0.6
320		0.3	0.4	0.1	0.2
640		0	0	0	0

Graphics



CETIS Analytical Report

Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	16-4842-7488	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	21 Jan-11 11:02	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ dilutus	**Brine:**	
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	16-5543-8019	**Code:**	MHW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:21	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:21	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	160	320	226.27		N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		20	1	1.0000	Non-Significant Effect
		40	0.66242	1.0000	Non-Significant Effect
		80	0.15546	0.4664	Non-Significant Effect
		160	0.057444	0.2298	Non-Significant Effect
		320	0	<0.0001	Significant Effect
		640	0	<0.0001	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	37	3	40
20		38	2	40
40		37	3	40
80		33	7	40
160		31	9	40
320		10	30	40
640		0	40	40

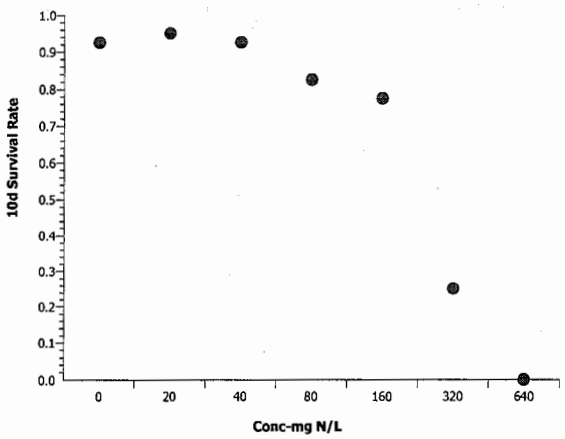
10d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9	1	0.9	0.9
20		0.9	0.9	1	1
40		1	0.8	0.9	1
80		0.9	0.7	0.8	0.9
160		0.9	0.9	0.7	0.6
320		0.3	0.4	0.1	0.2
640		0	0	0	0

Chironomus 10-d Survival and Growth Sediment Test **Nautilus Environmental**

Analysis ID:	16-4842-7488	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	21 Jan-11 11:02	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	17-6371-1325	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	24 Jan-11 11:54	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ dilutus	**Brine:**	
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	16-5543-8019	**Code:**	MHW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:21	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:21	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.3011	2.8016	0.3610	No Outliers Detected
Control Trend	Mann-Kendall Trend	-2		0.7391	Non-significant Trend in Controls

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	4.5265	0.56294	90.757
IC10	80.146	N/A	88.864
IC15	86.471	53.744	95.438
IC20	93.288	81.829	103.54
IC25	100.64	87.57	115.28
IC40	126.3	105.15	155.38
IC50	146.92	116.04	188.66

Mean Dry Weight-mg Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.5647	1.4756	1.622	0.011418	0.062537	4.0%	0.0%
20		4	1.4153	1.263	1.5578	0.027721	0.15183	10.73%	9.55%
40		4	1.4354	1.3288	1.507	0.014323	0.078449	5.47%	8.26%
80		4	1.4101	1.2922	1.5557	0.021479	0.11765	8.34%	9.88%
160		4	0.69403	0.44444	0.96834	0.044236	0.24229	34.91%	55.64%
320		4	0.18603	0.12667	0.23999	0.010463	0.057307	30.81%	88.11%

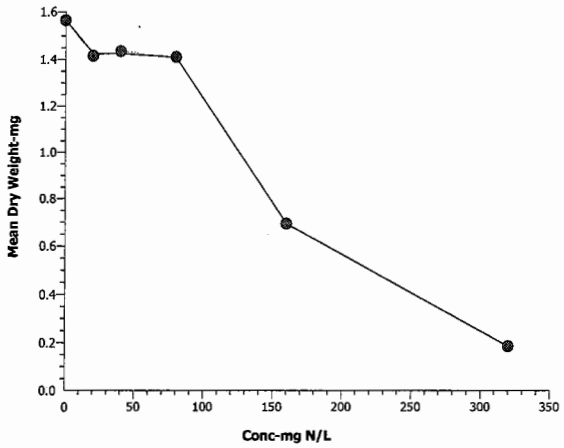
Mean Dry Weight-mg Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.5811	1.622	1.4756	1.58
20		1.5333	1.5578	1.263	1.307
40		1.507	1.3288	1.4789	1.427
80		1.4511	1.5557	1.3412	1.2922
160		0.44444	0.54334	0.82	0.96834
320		0.12667	0.14749	0.22998	0.23999

Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	17-6371-1325	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	24 Jan-11 11:54	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	18-3824-9460	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:34	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ dilutus	**Brine:**	
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	16-5543-8019	**Code:**	MHW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:21	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:21	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	80	160	113.1		14.7%

Dunnett's Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		20	1.568	2.407	6	0.2294	0.2069	Non-Significant Effect
		40	1.357	2.407	6	0.2294	0.2770	Non-Significant Effect
		80	1.622	2.407	6	0.2294	0.1909	Non-Significant Effect
		160*	9.137	2.407	6	0.2294	<0.0001	Significant Effect
		320*	14.47	2.407	6	0.2294	<0.0001	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	6.089031	1.217806	5	67.07	<0.0001	Significant Effect
Error	0.3268468	0.01815816	18			
Total	6.415877	1.235964	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	8.463	15.09	0.1325	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9834	0.884	0.9491	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	1.565	1.541	1.588	1.476	1.622	0.03127	0.06254	4.0%	0.0%
20		4	1.415	1.358	1.473	1.263	1.558	0.07592	0.1518	10.73%	9.55%
40		4	1.435	1.406	1.465	1.329	1.507	0.03922	0.07845	5.47%	8.26%
80		4	1.41	1.365	1.455	1.292	1.556	0.05882	0.1176	8.34%	9.88%
160		4	0.694	0.6019	0.7862	0.4444	0.9683	0.1211	0.2423	34.91%	55.64%
320		4	0.186	0.1642	0.2078	0.1267	0.24	0.02865	0.05731	30.8%	88.11%

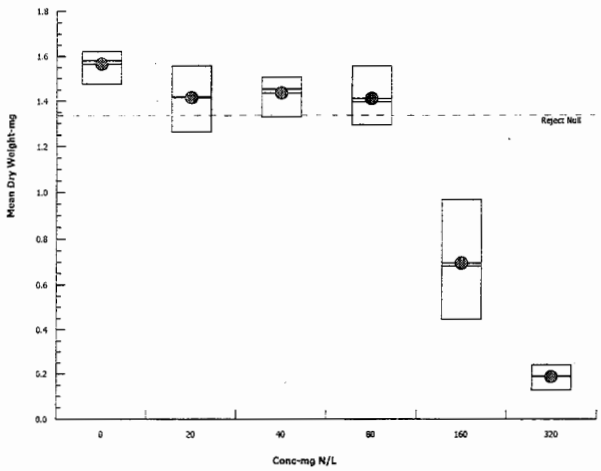
Chironomus 10-d Survival and Growth Sediment Test **Nautilus Environmental**

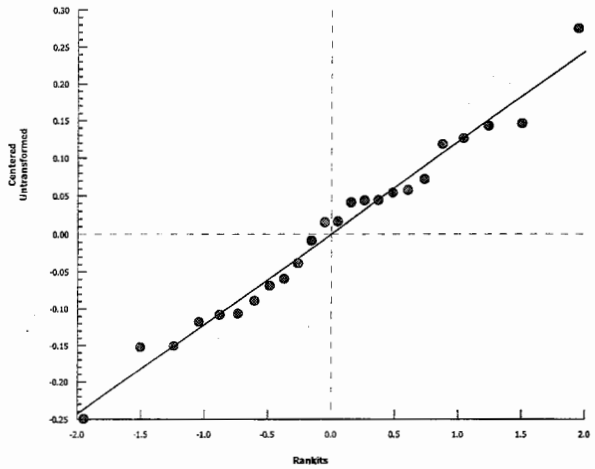
Analysis ID: 18-3824-9460 **Endpoint:** Mean Dry Weight-mg **CETIS Version:** CETISv1.8.0
Analyzed: 02 Mar-11 9:34 **Analysis:** Parametric-Control vs Treatments **Official Results:** Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.581	1.622	1.476	1.58
20		1.533	1.558	1.263	1.307
40		1.507	1.329	1.479	1.427
80		1.451	1.556	1.341	1.292
160		0.4444	0.5433	0.82	0.9683
320		0.1267	0.1475	0.23	0.24

Graphics





Client: MABC

W.O.#: n/a

Hardness and Alkalinity Datasheet

	Alkalinity						Hardness			
Sample ID	Sample Date	Sample Volume (mL)	(mL) 0.02N HCL/H_2SO_4 used to pH 4.5	(mL) of 0.02N HCL/H_2SO_4 used to pH 4.2	Total Alkalinity ($mg/LCaCO_3$)		Sample Volume (mL)	Volume of 0.01M EDTA Used (mL)	Total Hardness ($mg/L\ CaCO_3$)	Technician
SW	Dec 29/10	50	1.2	1.3	22		50	2.3	46	KJL
MHW	Dec 29/10	50	2.05 KJL	2.6	48		50	4.3	86	KJL
HW	Dec 29/10	50	5.1	5.2	100		50	8.6	172	KJL

Notes: ~~H. azteca~~ C. dilutus JAB

Reviewed by: JGL

Date Reviewed: March 16/11

Chironomus dilutus Test Summary Sheet

Client: MABC

Start Date/Time: Jan 7/11 @ 1200h

Work Order No.: n/a

Test Species: C. dilutus

Sample Information:

Sample ID: HW - Nitrate
Sample Date: n/a
Date Received: n/a
Sample Volume: n/a

Dilution Water:

Type: Hard Water (HW)
Hardness (mg/L $CaCO_3$): 172
Alkalinity (mg/L $CaCO_3$): 100

Test Organism Information:

Species: C. dilutus
Supplier: Aquatic Bio-Systems (Colorado)
Date received: Jan 6/11
Age/Size (Dayo): Beginning of third instar

KCl Reference Toxicant Results:

Reference Toxicant ID: CT20
Stock Solution ID: n/a
Date Initiated: Jan 7/11

96-h LC50 (95% CL): 5.2 (3.9-7.0) g/L KCl

96-h LC50 Reference Toxicant Mean and Range: 6.7 (4.6-9.9) g/L KCl CV (%): 20.9

Test Results:

	Survival	Mean Dry Weight ~~Biomass~~
LC25 % (v/v) (95% CL)	n/a	JAB
LC50 % (v/v) (95% CL)	337 (297-382)	
IC25 % (v/v) (95% CL)		174 (156-188)
IC50 % (v/v) (95% CL)		229 (211-240)

Reviewed by: JBL

Date reviewed: March 8/11

Chronic *C. ~~tentans~~ dilutus* Sediment Toxicity Test Data Sheet

Freshwater Sediment Water Quality

Client: MABC
Work Order No.: n/a
Test Condition: Hard Water - Nitrate

Start Date: 7-Jan-11 @ 1200h
Termination Date: 17-Jan-11 @ 1200h
Test Organism: *Chironomus ~~tentans~~ dilutus*

Temperature (°C)

Sample ID mg NO3-N/L	Day 0	3 old	3 new	5 old	5 new	7 old	7 new	10
Control	22.5	23.0	22.0	23.0	22.5	23.0	22.0	23.5
20	22.5	23.0	22.0	23.0	22.0	23.0	22.0	23.5
40	22.5	23.0	22.0	23.0	22.0	23.0	22.0	23.5
80	22.5	23.0	22.0	23.0	22.0	23.0	22.0	23.5
160	22.5	23.0	22.0	23.0	22.0	23.0	22.0	23.0
320	22.5	23.0	22.0	23.0	22.0	23.0	22.0	23.0
640	22.5	23.0	22.0	23.0	22.0	23.0	22.0	23.0
Technician Initials		KJL	KJL	KJL	KJL	KJL	KJL	EGS

Conductivity (µS)

Sample ID mg NO3-N/L	Day 0	3 old	3 new	5 old	5 new	7 old	7 new	10
Control	506	540	605	573	603	601	608	613
20	652	667	764	709	765	948	769	759
40	790	766	923	840	924	886	925	917
80	1058	1041	1237	1137	1237	1246	1238	1243
160	1643	1604	1859	1715	1858	1825	1860	1880
320	2720	2610	3070	2830	3070	2970	3080	3100
640	4710	4530	5420	5020	5390	5220	~~5280~~ 5390	5390
Technician Initials		KJL	KJL	KJL	KJL	KJL	KJL	EGS

Comments:

Reviewed by: JGL

Date Reviewed: March 16/11

Chronic *C. ~~tentans~~ dilutus* Sediment Toxicity Test Data Sheet

Freshwater Sediment Water Quality

Client: MABC
Work Order No.: n/a
Test Condition: Hard Water - Nitrate

Start Date: 7-Jan-11 @ 1200h
Termination Date: 17-Jan-11 @ 1200h
Test Organism: *Chironomus ~~tentans~~ dilutus*

Dissolved Oxygen (mg/L)

Sample ID mg NO3-N/L	Day 0	3 old	3 new	5 old	5 new	7 old	7 new	10
Control	7.6	7.9	8.2	8.0	8.2	7.9	8.2	7.4
20	7.8	7.9	8.1	8.1	7.2	7.8	8.1	7.6
40	7.8	8.0	8.3	8.1	7.2	7.9	8.1	7.6
80	7.8	8.0	8.3	8.1	7.2	8.0	8.1	7.6
160	7.9	8.0	8.3	8.1	7.2	7.9	8.2	7.7
320	8.0	8.0	8.3	8.1	7.2	8.0	8.1	7.7
640	8.0	8.0	8.5	8.1	7.2	8.0	8.2	7.8
Technician Initials	AR	KJL	KJL	KJL	KJL	KJL	KJL	EGS

pH

Sample ID mg NO3-N/L	Day 0	3 old	3 new	5 old	5 new	7 old	7 new	10
Control	7.7	7.8	8.2	8.0	8.2	8.0	8.1	8.0
20	7.7	7.8	8.2	8.1	8.3	8.0	8.1	8.0
40	7.7	7.8	8.2	8.0	8.3	8.1	8.1	8.1
80	7.7	7.7	8.2	8.0	8.3	8.0	8.1	8.1
160	7.8	7.9	8.2	8.0	8.3	8.0	8.1	8.1
320	7.8	7.8	8.2	8.0	8.2	8.0	8.0	8.1
640	7.7	7.7	8.1	8.0	8.2	8.0	8.0	8.2
Technician Initials	AR	KJL	KJL	KJL	KJL	KJL	KJL	EGS

Comments:

Reviewed by: JOL

Date Reviewed: March 16/11

C. ~~tentans~~ dilutus Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC

Work Order No.: n/a

Test Condition: **Hard Water - Nitrate**

Start Date: 7-Jan-101 @ @1200h

Termination Date: 17-Jan-101 @ @1200h

Test Organism: *Chironomus ~~tentans~~ dilutus*

Sample ID (mg NO3-N/L)	Pan No. Blue	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	1	A	10	0	0	QW	1312.34	1324.88	10	KSL
	2	B	10	0	0		1310.15	1322.29	10	
	3	C	9 (3)	0	1		1308.11	1318.50	8	
	4	D	9 (3)	0	1		1302.14	1311.28	8	
20	5	A	8 (1)	0	2	JAB	1311.08	1323.41	8	KSL
	6	B	9 (1)	0	1		1308.87	1321.16	9	
	7	C	10	0	0		1307.41	1323.39	10	
	8	D	9 (1)	0	1		1315.42	1330.03	9	
40	9	A	9	0	1	JAB	1301.14	1313.65	9	KSL
	10	B	10 ~~8~~ (2)	0	0		1310.17	1321.33	8	
	11	C	10	0	0		1309.68	1323.42	10	
	12	D	10 (4)	0	0		1307.36	1319.37	9	
80	13	A	9	0	1	KSL	1305.31	1318.02	9	KSL
	14	B	9	0	1		1312.18	1325.34	9	
	15	C	~~7~~ (5)	0	3		1309.04	1320.20	7	
	16	D	10	0	0		1311.93	1323.17	10	
160	17	A	10	0	0	QW	1311.30	1323.27	10	KSL
	18	B	9 (3)	0	1		1283.61	1293.25	8	
	19	C	10 (5)	0	0		1313.35	1323.71	9	
	20	D	9	0	1		1311.25	1320.45	9	

Comments: (1) cheeked by KSL (2) 2 pupae (3) one pupa (4) one pupae (5) cheeked by EGS

Reweighed pans (11) 1323.22 (17) 1323.06

Reviewed by: JGL

Date Reviewed: March 16/11

C. ~~tentans~~ dilutus Sediment Toxicity Test Data Sheet

Freshwater Sediment Survival and Weight

Client: MABC

Work Order No.: n/a

Test Condition: **Hard Water - Nitrate**

Start Date: 7-Jan-101 a @ 1200h

Termination Date: 17-Jan-101 a @ 1200h

Test Organism: *Chironomus ~~tentans~~ dilutus*

Sample ID (mg NO3 N/L)	Pan No. Blue	Rep	No. alive	No. dead	No. missing	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
320	21	A	7	1	2	JAB	1308.22	1309.99	7	KJL
	22	B	8②	0	2	JAB	1303.16	1305.27	8	↓
	23	C	6①	0	4	JAB	1299.56	1300.87	6	
	24	D	3①	2	5	↓	1303.38	1304.39	3	
640	25	A	0①	0	10	KJL	1315.09	/	0	KJL
	26	B	0①	1	9		1320.10	/	0	↓
	27	C	0①	0	10		1295.87	/	0	
	28	D	0	0	10	↓	1312.00	/	0	↓
		A								
		B								
		C								
		D								
		A								
		B								
		C								
		D								
		A								
		B								
		C								
		D								

Comments: ① checked by JAB ② checked by EGS
Reweighed pan ② 1305.16

Reviewed by: JGL

Date Reviewed: March 16/11

CETIS Analytical Report

Test Code: 03-8896-9120/HW-NO3-Ch

Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	06-8074-9422	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	21 Jan-11 11:03	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	~~Mod-Hard Synthetic Water~~ JAB
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ 10% dilutus	**Brine:**	Hard Water
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	05-1455-3696	**Code:**	HW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:23	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:23	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0.05	1.32%	2.5276	0.02729	336.95	297.16	382.07

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Extreme Value	Grubbs Extreme Value	2.6811	2.8762	0.1144	No Outliers Detected
Control Trend	Mann-Kendall Trend	-2		0.8261	Non-significant Trend in Controls

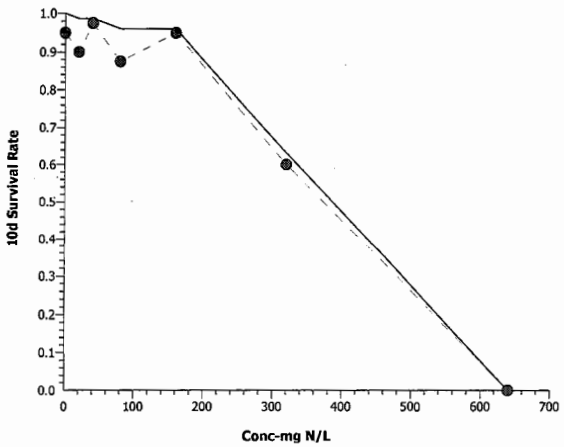
10d Survival Rate Summary

			Calculated Variate(A/B)							
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%	A	B
0	Negative Control	4	0.95	0.9	1	0.010541	0.057735	6.08%	0.0%	38	40
20		4	0.9	0.8	1	0.014907	0.08165	9.07%	5.26%	36	40
40		4	0.975	0.9	1	0.0091287	0.05	5.13%	-2.63%	39	40
80		4	0.875	0.7	1	0.022973	0.12583	14.38%	7.89%	35	40
160		4	0.95	0.9	1	0.010541	0.057735	6.08%	0.0%	38	40
320		4	0.6	0.3	0.8	0.039441	0.21602	36.0%	36.84%	24	40
640		4	0	0	0	0	0		100.0%	0	40

10d Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	0.9	0.9
20		0.8	0.9	1	0.9
40		0.9	1	1	1
80		0.9	0.9	0.7	1
160		1	0.9	1	0.9
320		0.7	0.8	0.6	0.3
640		0	0	0	0

Graphics



Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	11-1074-7223	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	21 Jan-11 11:03	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	~~Mod Hard Synthetic Water~~ JAB Hard Water
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ dilutus	**Brine:**	
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	05-1455-3696	**Code:**	HW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:23	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:23	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed		C > T	Not Run	160	320	226.27		N/A

Fisher Exact/Bonferroni-Holm Test

Control	vs	Conc-mg N/L	Test Stat	P-Value	Decision(0.05)
Negative Control		20	0.33758	1.0000	Non-Significant Effect
		40	1	1.0000	Non-Significant Effect
		80	0.21577	0.8631	Non-Significant Effect
		160	0.69234	1.0000	Non-Significant Effect
		320	0.0001483	0.0007	Significant Effect
		640	0	<0.0001	Significant Effect

Data Summary

Conc-mg N/L	Control Type	No-Resp	Resp	Total
0	Negative Contr	38	2	40
20		36	4	40
40		39	1	40
80		35	5	40
160		38	2	40
320		24	16	40
640		0	40	40

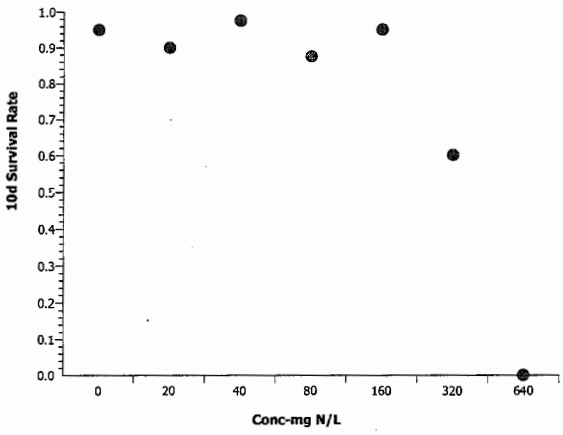
10d Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	1	0.9	0.9
20		0.8	0.9	1	0.9
40		0.9	1	1	1
80		0.9	0.9	0.7	1
160		1	0.9	1	0.9
320		0.7	0.8	0.6	0.3
640		0	0	0	0

Chironomus 10-d Survival and Growth Sediment Test **Nautilus Environmental**

Analysis ID:	11-1074-7223	**Endpoint:**	10d Survival Rate	**CETIS Version:**	CETISv1.7.0
Analyzed:	21 Jan-11 11:03	**Analysis:**	STP 2x2 Contingency Tables	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Test Code: 03-8896-9120/HW-NO3-Ch

Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	14-8069-2199	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	24 Jan-11 11:55	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	~~Mod-Hard-Synthetic-Water~~ JAB Mod Water
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ 360 dilutus	**Brine:**	
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	05-1455-3696	**Code:**	HW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:23	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:23	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Control Trend	Mann-Kendall Trend	-2		0.7391	Non-significant Trend in Controls

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	97.816	16.265	110.06
IC10	119.55	30.435	152.1
IC15	146.06	69.58	175.95
IC20	164.85	122.26	178.56
IC25	174.13	156.38	188.12
IC40	205.22	187.36	217.53
IC50	228.95	211.28	240.22

Mean Dry Weight-mg Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	1.2273	1.1425	1.2988	0.012104	0.066298	5.4%	0.0%
20		4	1.532	1.3656	1.6233	0.021209	0.11617	7.58%	-24.83%
40		4	1.3734	1.3344	1.395	0.0050105	0.027444	2.0%	-11.9%
80		4	1.3982	1.124	1.5943	0.036198	0.19826	14.18%	-13.92%
160		4	1.1438	1.0222	1.205	0.015424	0.084482	7.39%	6.8%
320		4	0.2679	0.21832	0.33667	0.0090864	0.049768	18.58%	78.17%

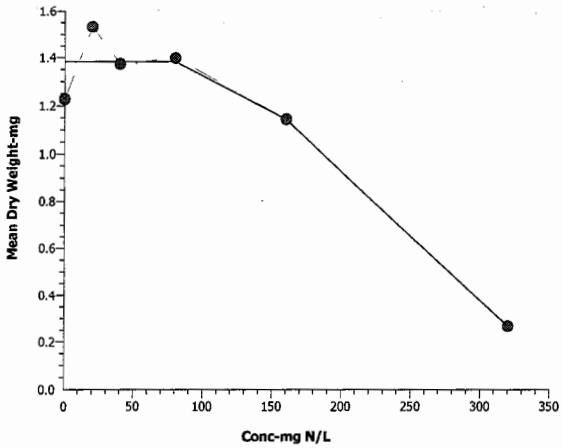
Mean Dry Weight-mg Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.254	1.214	1.2988	1.1425
20		1.5413	1.3656	1.598	1.6233
40		1.39	1.395	1.374	1.3344
80		1.4122	1.4622	1.5943	1.124
160		1.197	1.205	1.1511	1.0222
320		0.25286	0.26375	0.21832	0.33667

Chironomus 10-d Survival and Growth Sediment Test **Nautilus Environmental**

Analysis ID:	14-8069-2199	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.7.0
Analyzed:	24 Jan-11 11:55	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

Analysis ID:	12-9513-6877	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:35	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes
Batch ID:	20-5661-7372	**Test Type:**	Growth-Survival (10d)	**Analyst:**	
Start Date:	07 Jan-11	**Protocol:**	EC/EPS 1/RM/32	**Diluent:**	~~Mod-Hard Synthetic Water~~ Hard Water JAB
Ending Date:	17 Jan-11	**Species:**	Chironomus ~~tentans~~ 364 dilutes	**Brine:**	
Duration:	10d 0h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	05-1455-3696	**Code:**	HW-NO3	**Client:**	BCMA
Sample Date:	20 Jan-11 12:23	**Material:**	NO3	**Project:**	
Receive Date:	20 Jan-11 12:23	**Source:**	Azimuth		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	160	320	226.3		14.7%

Dunnett's Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		20	-4.061	2.407	6	0.1806	1.0000	Non-Significant Effect
		40	-1.946	2.407	6	0.1806	0.9989	Non-Significant Effect
		80	-2.277	2.407	6	0.1806	0.9996	Non-Significant Effect
		160	1.113	2.407	6	0.1806	0.3732	Non-Significant Effect
		320*	12.79	2.407	6	0.1806	<0.0001	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	4.164983	0.8329966	5	73.97	<0.0001	Significant Effect
Error	0.2026979	0.01126099	18			
Total	4.367681	0.8442576	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	11.11	15.09	0.0492	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9108	0.884	0.0367	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	1.227	1.202	1.253	1.143	1.299	0.03315	0.0663	5.4%	0.0%
20		4	1.532	1.488	1.576	1.366	1.623	0.05808	0.1162	7.58%	-24.83%
40		4	1.373	1.363	1.384	1.334	1.395	0.01372	0.02744	2.0%	-11.9%
80		4	1.398	1.323	1.474	1.124	1.594	0.09913	0.1983	14.18%	-13.92%
160		4	1.144	1.112	1.176	1.022	1.205	0.04224	0.08448	7.39%	6.8%
320		4	0.2679	0.249	0.2868	0.2183	0.3367	0.02488	0.04977	18.58%	78.17%

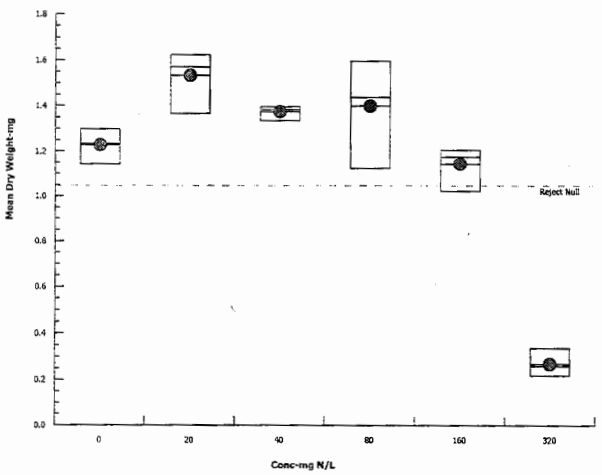
Chironomus 10-d Survival and Growth Sediment Test — **Nautilus Environmental**

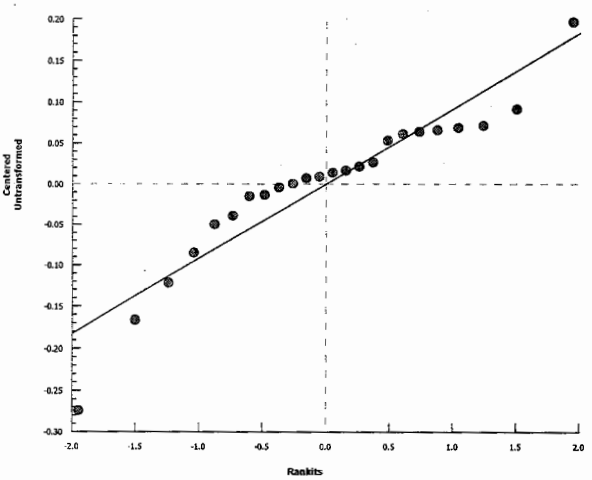
Analysis ID:	12-9513-6877	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	02 Mar-11 9:35	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1.254	1.214	1.299	1.143
20		1.541	1.366	1.598	1.623
40		1.39	1.395	1.374	1.334
80		1.412	1.462	1.594	1.124
160		1.197	1.205	1.151	1.022
320		0.2529	0.2637	0.2183	0.3367

Graphics





APPENDIX G – ***Pseudokirchneriella subcapitata*** **tests**

Pseudokirchneriella subcapitata Summary Sheet

Client: Mining Association of BC
Work Order No.: NA

Start Date: January 18, 2011
Set up by: ECC

Sample Information:

Sample ID: $NaNO_3$
Sample Date: NA
Date Received: NA
Sample Volume: NA

Test Organism Information:

Culture Date: January 14, 2011
Age of culture (Day 0): 4 d old

Zinc Reference Toxicant Results:

Reference Toxicant ID: SC66
Stock Solution ID: 10Zn02
Date Initiated: January 14, 2011

72-h IC50 (95% CL): 42.7 (36.0 - 52.6) µg/L Zn

72-h IC50 Reference Toxicant Mean and Range: 23.5, 11.9 - 46.6 µg/L Zn CV (%): 41%

Test Results:

	Algal Growth
IC25 mg/L N (95% CL)	325.3 (240.3 - 458.2) mg/L N
IC50 mg/L N (95% CL)	469.7 (394.0 - 544.7) mg/L N

Reviewed by: JGL

Date reviewed: Jan. 26/11

72-h Algal Growth Inhibition Toxicity Test
Water Quality Measurements

Client: MINING ASSOC. OF BC **Setup by:** ECC

Sample ID: $NaNO_3$ **Test Date/Time:** 18-Jan-11 1600h

Work Order No.: NA **Test Species:** *Pseudokirchneriella subcapitata*

Culture Date: Jan 14, 2011 **Age of Culture:** 4d **Culture Health:** Good

Culture Count: 1 482 2 466 **Average:** 474 **Culture Cell Density (c1):** 474 X10 4

$$v1 = \frac{220{,}000 \text{ cells/ml} \times 100 \text{ ml}}{(c1)\ 474 \times 10^4 \text{ cells/ml}} = 4.64 \text{ mL}$$

Time Zero Counts: 1 26 2 20 **Average:** 23 X10 4

No. of Cells/mL: 23 X 10 4 **Initial Density:** # cells/mL ÷ 220 µL x 10 µL = 10,455 cells/mL

Concentration	Water Quality Measurements					Microplates rotated 2X per day?			
	pH	Temp (°C)							
(mg/L N)	0 h	0 h	24 h	48 h	72 h	0 h	24 h	48 h	72 h
Control	7.1	22.5	24.5	24.5	25.0	✓	✓	✓	✓
25	7.1	22.5	24.5	24.5	25.0	✓	✓	✓	✓
50	7.1	22.5	24.5	24.5	25.0	✓	✓	✓	✓
100	7.1	22.5	24.5	24.5	25.0	✓	✓	✓	✓
200	7.1	22.5	24.5	24.5	25.0	✓	✓	✓	✓
400	7.1	22.5	24.5	24.5	25.0	✓	✓	✓	✓
800	7.0	22.5	24.5	24.5	25.0	✓	✓	✓	✓
1600	7.0	22.5	24.5	24.5	25.0	✓	✓	✓	✓
Initials	[illegible]	[illegible]	KLB	KLB	KLB	[illegible]	KLB	KLB	KLB

Initial control pH: Well 1: 6.8 Well 2: 6.8

Final control pH: Well 1: 6.5 Well 2: 6.5

Light intensity (lux): 3640 **Date measured:** Jan. 18, 2011

Sample Description: $NaNO_3$ test - conc prepared as N (mg/L)

Comments:

Reviewed: JGL **Date reviewed:** Jan. 26/11

Pseudokirchneriella subcapitata Toxicity Test Data Sheet
72-h Algal Cell Counts

Client: MINING ASSOCIATION OF BC
Start Date/Time: 18-Jan-11 1600h
Work Order #: NA
Termination Date: 21-Jan-11
Sample ID: $NaNO_3$
Test set up by: ECC
(mg/L N)

Concentration	Rep	Count 1	Count 2	Count 3	Count 4	Comments	Initials
Control	A	37					
	B	31					
	C	34					
	D	49	52				
	E	35					
	F	47	46				
	G	39					
	H	45					
25	A	151					
	B	117					
	C	124					
	D	128					
50	A	119	112				
	B	163					
	C	113					
	D	128					
100	A	87					
	B	152	141				
	C	89					
	D	109					
200	A	47					
	B	52					
	C	68					
	D	56					
400	A	33					
	B	21					
	C	23					
	D	25					
800	A	0					
	B	0					
	C	2					
	D	0					
1600	A	2					
	B	1					
	C	0					
	D	0					

Comments:

Reviewed by: JGL
Date Reviewed: Jan 26/11

***Pseudokirchneriella subcapitata* Algal Counts**

Client:	Mining Assoc of BC	Start Date/Time:	18-Jan-11 @1630h		
WO#:	NA	Termination Date:	21-Jan-11		
Sample ID:	Nitrate				
		Initial Cell Density:	10455 cell/mL		230000
					0.22
					0.01

Concentration (mg/L N)	Rep	Count 1 (x 10^4)	Count 2 (x 10^4)	Count 3 (x 10^4)	Count 4 (x 10^4)	Mean (x 10^4)	Cell Yield (x 10^4) cell/mL		10454.55
Control	A	37				37	36.0	mean	38.7
	B	31				31	30.0	SD	6.855655
	C	34				34	33.0	CV	17.71279
	D	49	52			50.5	49.5		
	E	35				35	34.0		
	F	47	46			46.5	45.5		
	G	39				39	38.0		
	H	45				45	44.0		
25	A	151				151	150.0		
	B	117				117	116.0		
	C	124				124	123.0		
	D	128				128	127.0		
50	A	119	112			115.5	114.5		
	B	163				163	162.0		
	C	113				113	112.0		
	D	128				128	127.0		
100	A	87				87	86.0		
	B	152	141			146.5	145.5		
	C	89				89	88.0		
	D	109				109	108.0		
200	A	47				47	46.0		
	B	52				52	51.0		
	C	68				68	67.0		
	D	56				56	55.0		
400	A	33				33	32.0		
	B	21				21	20.0		
	C	23				23	22.0		
	D	25				25	24.0		
800	A	0				0	-1.0		
	B	0				0	-1.0		
	C	2				2	1.0		
	D	0				0	-1.0		
1600	A	2				2	1.0		
	B	1				1	0.0		
	C	0				0	-1.0		
	D	0				0	-1.0		

JCH
Jan. 26/11

CETIS Analytical Report

EC Alga Growth Inhibition Test — **Nautilus Environmental**

Analysis ID:	08-8066-6170	**Endpoint:**	Cell Yield	**CETIS Version:**	CETISv1.7.0
Analyzed:	25 Jan-11 17:10	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	16-9872-1708	**Test Type:**	Cell Growth	**Analyst:**	
Start Date:	18 Jan-11	**Protocol:**	EC/EPS 1/RM/25	**Diluent:**	Deionized Water
Ending Date:	21 Jan-11	**Species:**	Pseudokirchneriella subcapitata	**Brine:**	
Duration:	72h	**Source:**	In-House Culture	**Age:**	
Sample ID:	13-4337-8529	**Code:**	Nitrate	**Client:**	BCMA
Sample Date:	18 Jan-11	**Material:**	Industrial Effluent	**Project:**	
Receive Date:		**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Sample Note: Measured values based on mg/L N Control values substituted/entered for conc with hormesis

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Control Trend	Mann-Kendall Trend	10		0.2751	Non-significant Trend in Controls

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	225.73	N/A	243.11	0.44302	0.41134	N/A
IC10	247.33	N/A	287.04	0.40432	0.34838	N/A
IC15	271	194.25	337.84	0.36901	0.29599	0.5148
IC20	296.91	216.89	396.96	0.3368	0.25191	0.46107
IC25	325.3	240.26	458.19	0.30741	0.21825	0.41622
IC40	419.37	320.6	500.34	0.23845	0.19987	0.31191
IC50	469.65	394.04	544.74	0.21293	0.18358	0.25378

Cell Yield Summary

			Calculated Variate						
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	8	38.875	30	50	1.2852	7.0394	18.11%	0.0%
27.8		4	39	39	39	0	0	0.0%	-0.32%
53.9		4	39	39	39	0	0	0.0%	-0.32%
103		4	39	39	39	0	0	0.0%	-0.32%
206		4	39	39	39	0	0	0.0%	-0.32%
406		4	24.5	20	32	0.96032	5.2599	21.47%	36.98%
821		4	0.25	0	1	0.091287	0.5	200.0%	99.36%
1570		4	0.25	0	1	0.091287	0.5	200.0%	99.36%

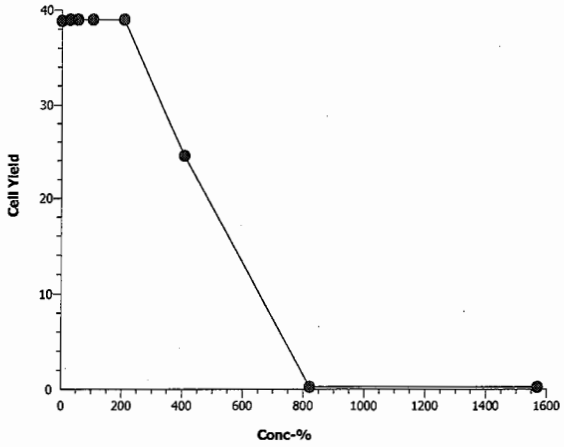
Cell Yield Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8
0	Negative Control	36	30	33	50	34	46	38	44
27.8		39	39	39	39				
53.9		39	39	39	39				
103		39	39	39	39				
206		39	39	39	39				
406		32	20	22	24				
821		0	0	1	0				
1570		1	0	0	0				

EC Alga Growth Inhibition Test **Nautilus Environmental**

Analysis ID:	08-8066-6170	**Endpoint:**	Cell Yield	**CETIS Version:**	CETISv1.7.0
Analyzed:	25 Jan-11 17:10	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Nautilus Environmental

Evaluation of the role of hardness in modifying the toxicity of nitrate to rainbow trout

Final Report

Report date:
September 12, 2011

Submitted to:

Mining Association of BC
Vancouver, BC

8664 Commerce Court
Burnaby, BC
V5A 4N7

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1.0 INTRODUCTION

The toxicity of major anions, such as sulphate and chloride, has been shown to be reduced with increasing water hardness using some species (Elphick et al., 2011a and b). However, no evaluations have been reported on the effect of hardness on the toxicity of nitrate. The mechanism resulting in reduced toxicity of sulphate and chloride at elevated hardness has not been definitively described; however, it is likely related to effects of calcium and/or magnesium on the permeability of the membrane or, alternatively, results from competitive exclusion at passive uptake sites by these or other ions. Regardless of the mechanism, it is possible that toxicity of nitrate may similarly be reduced with increasing hardness.

The testing described here was performed to evaluate the role of hardness in modifying the toxicity of nitrate in chronic exposures using early life stages of rainbow trout. Early life stages of salmonids have been demonstrated to be particularly sensitive to nitrate (McGurk et al. 2006).

2.0 METHODS

Test waters were prepared by addition of reagent grade salts to meet the target hardness level, with the exception of the very soft water (~15 mg/L), which was Metro Vancouver dechlorinated municipal tapwater with no added salts. Tests were conducted at four hardnesses (approximately 15, 45, 90 and 160 mg/L), and salt additions followed the ratios of salts specified in USEPA (2003). Nitrate was introduced by addition of reagent grade sodium nitrate. Hardness and alkalinity was measured in each of the water types used in the tests. Nitrate concentrations were measured in all test solutions at test initiation, and in a subset of concentrations bracketing the effect level at test termination.

Statistical analyses were conducted using nominal concentrations of nitrate and using CETIS version 1.8 (Tidepool Software).

2.1 Toxicity test methods

Toxicity tests were conducted in a similar manner to that described by McGurk et al. (2006) which were based on Environment Canada (1998) procedures for early life stages of salmonids. Similar to the McGurk et al. (2006) study, the test solutions were renewed three times per week, rather than daily, since nitrate did not dissipate in the test containers.

The test procedure was equivalent to the embryo-alevin test, but was extended until the majority of the alevins in the controls were considered to have fully absorbed the yolk-sac and reached the swim-up stage, including swimming actively in the water column. In addition to the usual test endpoints (i.e., survival of normally-developed fry), the fish were weighed, and scored for quantity of residual yolk sac. The latter endpoint was evaluated because McGurk et al. (2006) noted that lake trout exposed to nitrate exhibited a delay in achieving full yolk sac absorption. Residual yolk sac in each of the fish was assigned a value of 0, 1, 2 or 3 at test termination, where a score of zero was assigned to fish in which there was no residual yolk, and a score of 3 was assigned to fish that appeared to have consumed little or no yolk. This assessment was somewhat qualitative and, consequently, in order to maximize consistency, the same biologist assigned yolk sac scores to all of the surviving fry at test termination. Fish that had completely obsorbed their yolk sac were considered to have reached swim-up.

Table 1. Summary of test conditions: rainbow trout early life stage test.

Test organism	*Onchorhynchus mykiss*
Test organism source	Fraser Valley Trout Hatchery
Test organism age	Eggs and milt, fertilized just prior to test initiation
Test type	Static-renewal (three times per week)
Test duration	37 to 40 days
Test vessel	4-L plastic buckets
Exposure volume	2 L
Test replicates	4
No. of organisms	30 per replicate
Test temperature	14 ± 1°C
Feeding	None
Photoperiod	24 hour dark; dim light used during solution renewal
Aeration	Continuous
Test protocol	Environment Canada (1998), EPS 1/RM/28
Test endpoints	Survival, weight, achieving swim-up
Test acceptability criterion for controls	≥60% normal surviving alevins
Reference Toxicant	SDS

3.0 RESULTS

All tests met quality control criteria cited in the method, and measured concentrations of nitrate were in good agreement with the targeted values. Measured values for the nominal 15, 45, 90 and 160 mg/L hardnesses were 10, 50, 92 and 176 mg/L, respectively.

Adverse effects on survival were only observed in the very soft water; an LC10 and LC25 of 147 and 184 mg/L NO3-N were calculated in this test, whereas the LC10 and LC25 were >405 mg/L (i.e., greater than the highest test concentration) in each of the harder waters.

IC25 values for growth metrics (i.e., wet weight and length) were >405 mg/L in all four water types, although statistically-significant departures from control performance were observed in some treatments. IC10 values for wet weight generally increased with increasing water hardness, with calculated values of 95, 176, 132 and 335 mg/L for the 10, 50, 92 and 176 mg/L hardnesses, respectively. IC10 values for length exhibited a less consistent trend, with values reported of 111, >405, 245 and >405 mg/L for the four hardnesses, respectively.

Nitrate exposure was associated with a delay to reach swim-up, in a manner similar to that described in McGurk *at el.* (2006). In very soft water (10 mg/L hardness), the IC10 and IC25 for delayed yolk sac absorption was 13 and 32 mg/L and the NOEC and LOEC were 15 and 45 mg/L NO_3-N, respectively. However, it should be noted that the 15 mg/L treatment was very close to the threshold for being considered statistically significantly different from the control. These values are similar to the LOEC value of 6.25 mg/L reported in McGurk *et al.* (2006), indicating that the sensitivity of lake trout and rainbow trout appears to be comparable in a similar water type. There was no delay in yolk sac absorption in any of the test concentrations tested in the soft (50 mg/L hardness) and hard waters (176 mg/L hardness), resulting in IC10, IC25, and LOEC values of >405 mg/L for these two water types. Conversely, a delay in achieving yolk sac absorption was observed in the 135 and 405 mg/L NO_3-N concentrations in the moderately hard water (92 mg/L hardness), resulting in an NOEC and LOEC of 45 and 135 mg/L in this water type. The IC10 for delayed yolk absorption was 53 mg/L in this water type.

Results of reference toxicant (positive control) tests are provided in Table 3. The reference toxicant test result fell within the range of historical data from the laboratory (mean ± 2 SD), indicating that the sensitivity of the test organisms was appropriate.

Table 2. Results of chronic toxicity tests using rainbow trout.

	10 mg/L hardness	50 mg/L hardness	92 mg/L hardness	176 mg/L hardness
Survival				
LC10	147 (121 – 169)	>405	>405	>405
LC25	184 (158 – 207)	> 405	> 405	> 405
LC50	235 (209 – 261)	> 405	> 405	> 405
NOEC	45	405	405	405
LOEC	135	>405	>405	>405
Weight				
IC10	95 (NC)	176 (102 – 259)	132 (106 – 224)	335 (273 – 399)
IC25	>405	>405	>405	>405
IC50	>405	>405	>405	>405
NOEC	45	135	45	45
LOEC	135	405	135	135
Length				
IC10	111 (NC)	>405	245 (175 – 329)	>405
IC25	>405	>405	>405	>405
IC50	>405	>405	>405	>405
NOEC	15	15	45	405
LOEC	45	45	135	>405
Proportion reaching swim-up				
EC10	13 (5 – 22)	>405	53 (44 – 56)	>405
EC25	32 (17 – 46)	>405	69 (59 – 77)	>405
EC50	71 (50 – 90)	>405	107 (86 – 134)	>405
NOEC	15	405	45	>405
LOEC	45	>405	135	>405

NC Not Calculable

Table 3. Reference toxicant test results.

Species	Date	Toxicant	Point estimate	Acceptable Range	CV
Oncorhynchus mykiss (7 day embryo)	26/5/2010	SDS	5.2 mg/L	2.5 – 10.8 mg/L	44

4.0 DISCUSSION

The relationship between water hardness and sensitivity to nitrate is clearly present in the data presented in Table 2; however, the results do not definitively demonstrate the slope of the relationship for each of the endpoints, since the sensitivity to nitrate in the moderately hard water (92 mg/L hardness) appeared greater than the soft water (50 mg/L hardness), although clearly sensitivity to nitrate was greatest in the softest water type (10 mg/L hardness). This resulted partly from the fact that the adverse effects were small, generally resulting in adverse effects of less than a 25% departure from control performance. Thus, between-test differences in variability can result in differing statistical sensitivities to detect adverse effects.

Regardless, the data clearly demonstrate that rainbow trout were more sensitive in very soft water than harder waters. The most sensitive IC10 value from the tests conducted was 13 mg/L in the very soft water (for delayed yolk sac absorption), 176 mg/L in the soft water (for fry weight), 53 mg/L in the moderately hard water (for delay in reaching swim-up) and 335 mg/L in the hard water (for fry weight). The fish exposed in the very soft water test, which was comparable in characteristics to the water used by McGurk et al. (2006), were substantially more sensitive to nitrate using each of the four test endpoints, relative to all of the other, harder water types.

5.0 REFERENCES

Elphick, J.R., Davies, M. Gilron, G., Canaria, E.C., Lo, B. and Bailey, H.C. 2011a. An aquatic toxicological evaluation of sulphate: the case for considering hardness as a modifying factor in setting water quality guidelines. Environ. Toxicol. Chem. 30:247-253.

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Tidepool Scientific Software. 2007. CETIS comprehensive environmental toxicity information system. Tidepool Scientific Software, McKinleyville, CA. 222 pp.

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APPENDIX A – Summary of measured nitrate concentrations

Initial Sampling (mg/L NO3-N)	***405***	***135***	***45***	***15***	***5***	***Control***
Hard Water	405	133	42.4	14.6	4.9	0.1
Moderately Hard Water	394	132	41.4	14.5	5.1	0.08
Soft Water	406	136	43.2	15.2	5.4	0.07
Dechlor	395	132	43.7	15	5	0.06

Subsequent sampling	***405***		***135***		***45***		***15***		***5***		***Control***	
	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final	Initial	Final
Hard Water	402	396	132	131	44.5	43	15	14.4	5.1	4.7	0.2	0.09
Moderately Hard Water	397	397	128	130	42.5	45	14.1	14.9	4.6	5.2	0.9	0.07
Soft Water	409	408	139	138	48.2	47.8	16	15.1	6	5.2	0.6	0.06
Dechlor	411	399	139	135	47.5	46.1	15.6	15.1	5.4	5.1	0.09	0.04

Average (mg/L NO3-N)	***405***	***135***	***45***	***15***	***5***	***Control***
Hard Water	401	132	43	15	5	0.1
Moderately Hard Water	396	130	43	15	5	0.4
Soft Water	408	138	46	15	6	0
Dechlor	402	135	46	15	5	0

APPENDIX B –Toxicity test results

Rainbow Trout Embryo-Alevin-Fry Test Summary Sheet

Client: MABC

Start Date/Time: 26-May-10 @1600h

Work Order No.: n/a

Test Species: *Oncorhynchus mykiss*

Sample Information:

Sample ID: Nitrate- Dechlor- Very Soft Water
Sample Date: —
Date Received: —
Sample Volume: —

Dilution Water:

Type: Dechlorinated Municipal Tap Water
Hardness (mg/L $CaCO_3$): 5-15
Alkalinity (mg/L $CaCO_3$): 5-15

Test Organism Information:

Batch No.: 052610
Source: Fraser Valley Trout Hatchery
Loading Density: 30 embryo in 2-L

SDS Reference Toxicant Results:

Reference Toxicant ID: RTE26
Stock Solution ID: 10505
Date Initiated: May 26/10
7-d EC50 (95% CL): 5.1 (4.8-5.3) mg/L SDS

Reference Toxicant Mean ± 2 SD: 5.2 (2.5-10.8) mg/L SDS
Reference Toxicant CV (%): 44

Test Results:

mg/L NO3-N	Survival	% Swimup (Initial)	Wet Weight	Length
NOEC	45	15	15	15
LOEC	135	45	45	45
EC25 (95% CL)	184 (158-207)	32 (17-46)		
EC50 (95% CL)	235 (209-261)	71 (50-90)		
IC25 (95% CL)			>405	>405
IC50 (95% CL)			>405	>405

Reviewed by: A. Tang

Date reviewed: May 11, 2011

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	11-4080-3946	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 11:57	**Analysis:**	Linear Regression (MLE)	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	~~Mod-Hard-Synthetic~~ Water
Ending Date:	05 Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	Dechlor
Duration:	40d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	07-0545-3934	**Code:**	2A0C5F6E	**Client:**	BCMA
Sample Date:	26 May-10	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	26 May-10	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Regression Options

Model Function	Threshold Option	Threshold	Optimized	Pooled	Het Corr	Weighted
Log-Normal [NED=A+B*log(X)]	Control Threshold	0.0416667	Yes	No	No	Yes

Regression Summary

Iters	LL	AICc	BIC	Mu	Sigma	Adj R2	F Stat	Critical	P-Value	Decision(α:5%)
6	-139.1	285.6	287.1	-1.573	0.1597	0.8664	0.07246	3.682	0.9304	Non-Significant Lack of Fit

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC10	146.8	120.9	169.3
EC15	160.7	134.7	183.4
EC20	172.6	146.6	195.6
EC25	183.6	157.6	206.8
EC40	214.3	188.4	238.8
EC50	235.3	209.1	261.3

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(α:5%)
Threshold	0.04583	0.009546	0.02712	0.06454	4.801	0.0002	Significant Parameter
Slope	6.26	0.6311	5.023	7.497	9.92	<0.0001	Significant Parameter
Intercept	-9.846	1.541	-12.87	-6.825	-6.388	<0.0001	Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Model	109.975	109.975	1	125.2	<0.0001	Significant
Lack of Fit	0.1428651	0.0714326	2	0.07246	0.9304	Non-Significant
Pure Error	14.78736	0.9858239	15			
Residual	14.93022	0.8782485	17			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Goodness-of-Fit	Pearson Chi-Sq GOF	14.93	27.59	0.6005	Non-Significant Heterogenity
	Likelihood Ratio GOF	18.98	27.59	0.3298	Non-Significant Heterogenity
Extreme Value	Grubbs Extreme Value	1.601	2.708	1.0000	No Outliers Detected
Variances	Bartlett Equality of Variance	2.889	9.488	0.5766	Equal Variances
	Mod Levene Equality of Variance	2.012	3.056	0.1443	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9222	0.9044	0.1091	Normal Distribution
	Anderson-Darling A2 Normality	0.5149	2.492	0.1956	Normal Distribution

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID: 11-4080-3946 **Endpoint:** Survival Rate **CETIS Version:** CETISv1.8.0
Analyzed: 03 May-11 11:57 **Analysis:** Linear Regression (MLE) **Official Results:** Yes

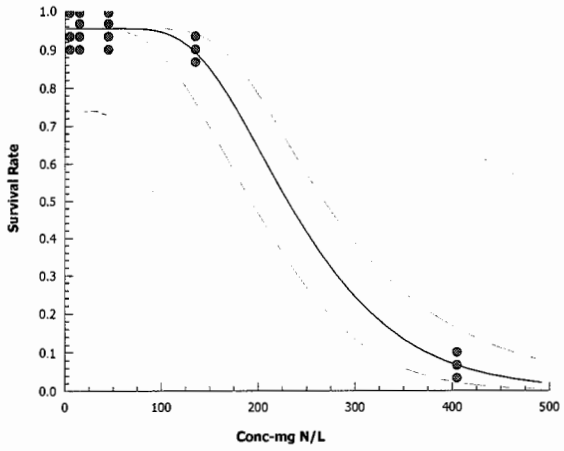
Survival Rate Summary

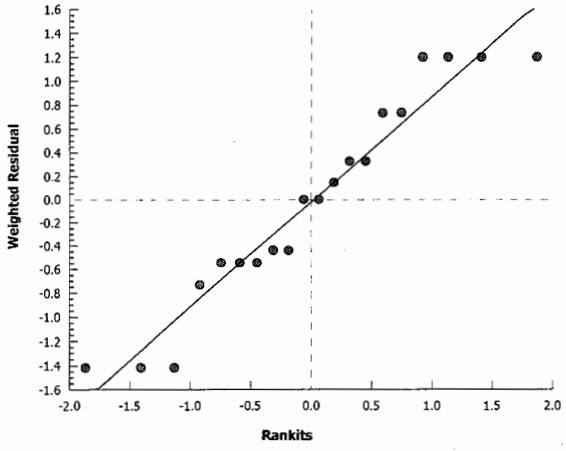
Conc-mg N/	Control Type	Count	Calculated Variate(A/B) Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.9583	0.8667	1	0.03155	0.0631	6.58%	0.0%	115	120
5		4	0.9583	0.9	1	0.025	0.05	5.22%	0.0%	115	120
15		4	0.95	0.9	1	0.02152	0.04303	4.53%	0.87%	114	120
45		4	0.95	0.9	1	0.02152	0.04303	4.53%	0.87%	114	120
135		4	0.8917	0.8667	0.9333	0.01596	0.03191	3.58%	6.96%	107	120
405		4	0.06667	0.03333	0.1	0.01361	0.02722	40.82%	93.04%	8	120

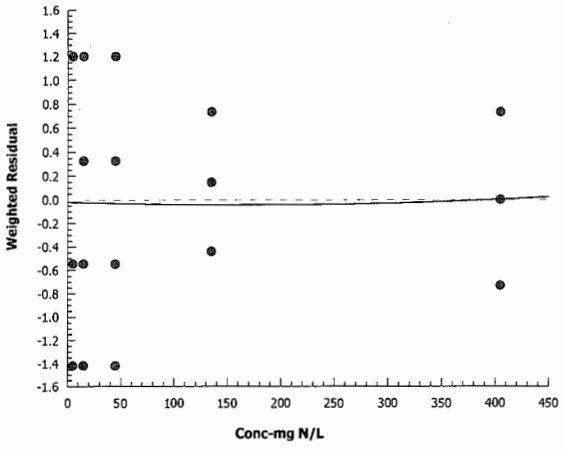
Survival Rate Detail

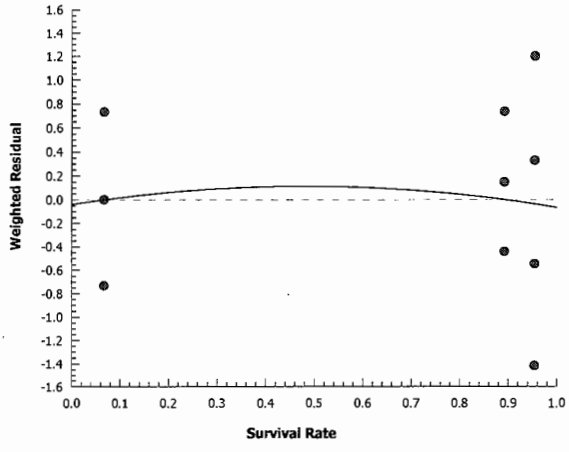
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.8667	1	0.9667
5		0.9	0.9333	1	1
15		0.9333	1	0.9667	0.9
45		0.9	0.9333	0.9667	1
135		0.9	0.8667	0.8667	0.9333
405		0.03333	0.06667	0.1	0.06667

Graphics Log-Normal [NED=A+B*log(X)]









Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	04-5015-2609	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 11:56	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	~~Med-Hard-Synthetic~~ Water Dechlor
Ending Date:	05 Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	40d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	07-0545-3934	**Code:**	2A0C5F6E	**Client:**	BCMA
Sample Date:	26 May-10	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	26 May-10	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	45	135	77.94		5.63%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	0.09205	1.734	6	0.1201	>0.05	Non-Significant Effect
		15	0.4247	1.818	6	0.126	>0.05	Non-Significant Effect
		45	0.4247	1.845	6	0.1278	>0.05	Non-Significant Effect
		135*	2.13	1.859	6	0.1288	<0.05	Significant Effect
		405*	16.29	1.867	6	0.1294	<0.05	Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		2.177	2.802	0.5387	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	3.991197	0.7982394	5	83.14	<0.0001	Significant Effect
Error	0.1728105	0.009600585	18			
Total	4.164007	0.80784	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	3.321	15.09	0.6507	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9562	0.884	0.3667	Normal Distribution

Survival Rate Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.9583	0.9343	0.9823	0.8667	1	0.03155	0.0631	6.58%	0.0%
5		4	0.9583	0.9393	0.9774	0.9	1	0.025	0.05	5.22%	0.0%
15		4	0.95	0.9336	0.9664	0.9	1	0.02152	0.04303	4.53%	0.87%
45		4	0.95	0.9336	0.9664	0.9	1	0.02152	0.04303	4.53%	0.87%
135		4	0.8917	0.8795	0.9038	0.8667	0.9333	0.01596	0.03191	3.58%	6.96%
405		4	0.06667	0.05631	0.07702	0.03333	0.1	0.01361	0.02722	40.82%	93.04%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	4	1.386	1.335	1.436	1.197	1.479	0.06656	0.1331	9.61%	0.0%
5		4	1.379	1.334	1.424	1.249	1.479	0.05906	0.1181	8.56%	0.46%
15		4	1.356	1.318	1.394	1.249	1.479	0.04982	0.09964	7.35%	2.12%
45		4	1.356	1.318	1.394	1.249	1.479	0.04982	0.09964	7.35%	2.12%
135		4	1.238	1.218	1.259	1.197	1.31	0.02679	0.05359	4.33%	10.65%
405		4	0.2569	0.2354	0.2785	0.1836	0.3218	0.02831	0.05661	22.03%	81.46%

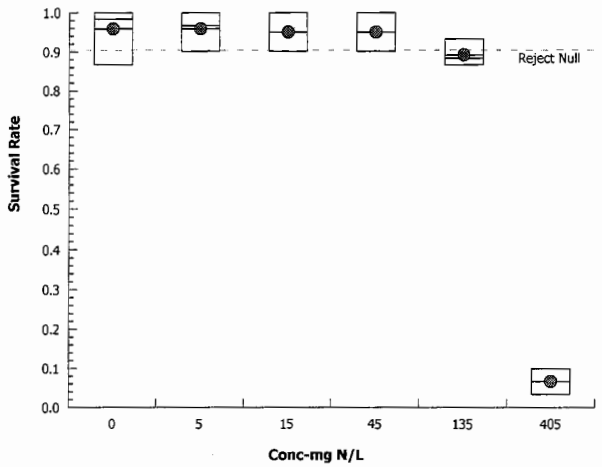
Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

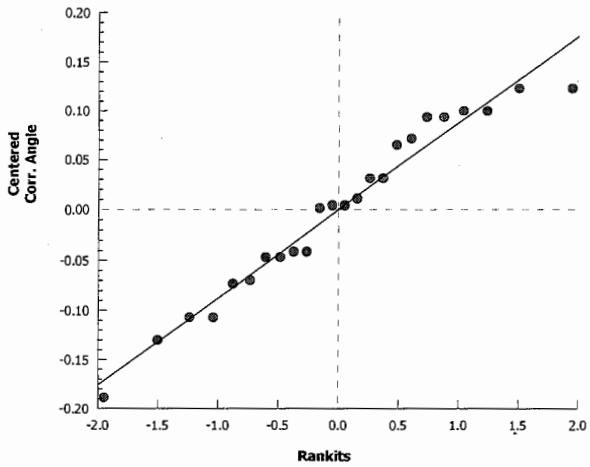
Analysis ID:	04-5015-2609	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 11:56	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.8667	1	0.9667
5		0.9	0.9333	1	1
15		0.9333	1	0.9667	0.9
45		0.9	0.9333	0.9667	1
135		0.9	0.8667	0.8667	0.9333
405		0.03333	0.06667	0.1	0.06667

Graphics





CETIS Analytical Report

Salmonid Embryo Survival and Development Test — % Swim-up — **Nautilus Environmental**

Analysis ID:	21-1076-3643	**Endpoint:**	Proportion Normal (of Initial)	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 11:59	**Analysis:**	Linear Regression (MLE)	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	~~Mod Hard Synthetic~~ Water
Ending Date:	05 Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	Dechlor
Duration:	40d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	07-0545-3934	**Code:**	2A0C5F6E	**Client:**	BCMA
Sample Date:	26 May-10	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	26 May-10	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Regression Options

Model Function	Threshold Option	Threshold	Optimized	Pooled	Het Corr	Weighted
Log-Gompertz [log(-log(1-P)=A+B*log(X)]	Control Threshold	0.2416667	Yes	No	No	Yes

Regression Summary

Iters	LL	AICc	BIC	Mu	Sigma	Adj R2	F Stat	Critical	P-Value	Decision(α:5%)
12	-298.2	603.8	605.3	-1.995		0.7642	0.7684	3.682	0.4812	Non-Significant Lack of Fit

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC10	12.84	5.118	22.15
EC15	19.02	8.699	30.37
EC20	25.35	12.81	38.32
EC25	31.92	17.43	46.22
EC40	53.73	34.75	71.16
EC50	70.86	49.74	90.2

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(α:5%)
Threshold	0.264	0.03111	0.203	0.3249	8.486	<0.0001	Significant Parameter
Slope	2.539	0.3456	1.862	3.217	7.346	<0.0001	Significant Parameter
Intercept	-5.065	0.7274	-6.491	-3.639	-6.963	<0.0001	Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Model	82.80943	82.80943	1	63.59	<0.0001	Significant
Lack of Fit	2.057477	1.028738	2	0.7684	0.4812	Non-Significant
Pure Error	20.08172	1.338781	15			
Residual	22.13919	1.302305	17			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Goodness-of-Fit	Pearson Chi-Sq GOF	22.14	27.59	0.1794	Non-Significant Heterogenity
	Likelihood Ratio GOF	24.2	27.59	0.1140	Non-Significant Heterogenity
Extreme Value	Grubbs Extreme Value	1.942	2.708	0.8546	No Outliers Detected
Variances	Mod Levene Equality of Variance	1.474	3.056	0.2593	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9558	0.9044	0.4629	Normal Distribution
	Anderson-Darling A2 Normality	0.443	2.492	0.2913	Normal Distribution

Salmonid Embryo Survival and Development Test — Nautilus Environmental

Analysis ID: 21-1076-3643 **Endpoint:** Proportion Normal (of Initial) @ Swim-up **CETIS Version:** CETISv1.8.0
Analyzed: 03 May-11 11:59 **Analysis:** Linear Regression (MLE) **Official Results:** Yes

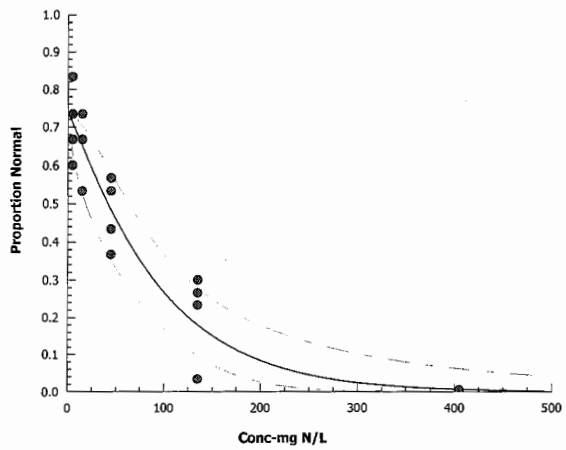
Proportion Normal Summary

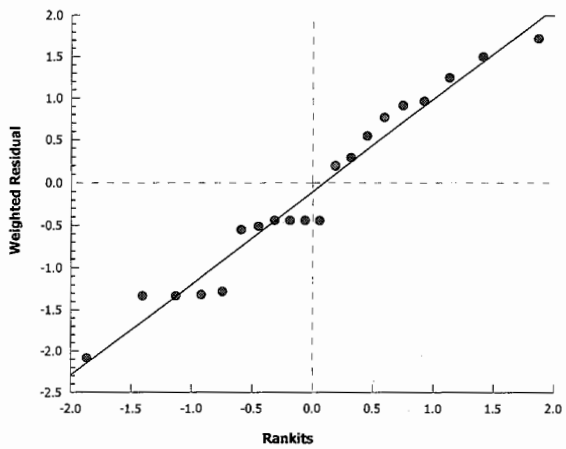
Conc-mg N/	Control Type	Count	Calculated Variate(A/B) Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.7583	0.7	0.9	0.04787	0.09574	12.63%	0.0%	91	120
5		4	0.7083	0.6	0.8333	0.04977	0.09954	14.05%	6.59%	85	120
15		4	0.6167	0.5333	0.7333	0.05	0.1	16.22%	18.68%	74	120
45		4	0.475	0.3667	0.5667	0.0459	0.09179	19.32%	37.36%	57	120
135		4	0.2083	0.03333	0.3	0.0599	0.1198	57.5%	72.53%	25	120
405		4	0	0	0	0	0		100.0%	0	120

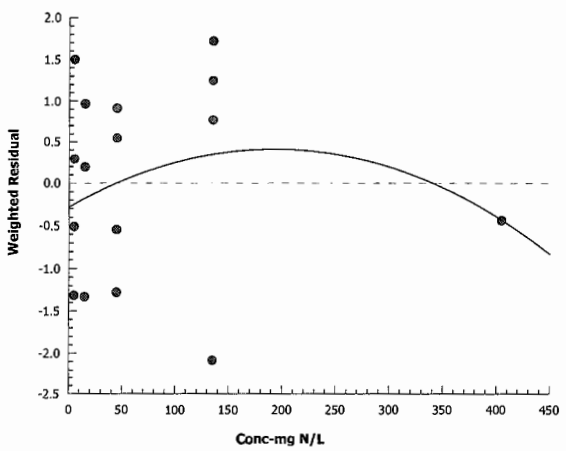
Proportion Normal Detail

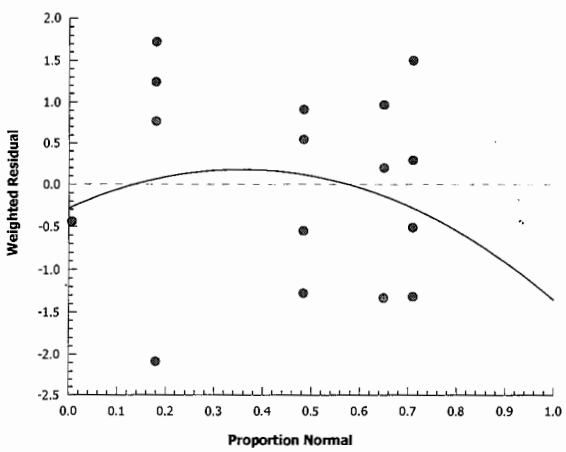
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.7	0.7333	0.7	0.9
5		0.6	0.7333	0.8333	0.6667
15		0.6667	0.7333	0.5333	0.5333
45		0.5333	0.4333	0.5667	0.3667
135		0.3	0.03333	0.2667	0.2333
405		0	0	0	0

Graphics Log-Gompertz [log(-log(1-P)=A+B*log(X)]









Salmonid Embryo Survival and Development Test % Swim-up — **Nautilus Environmental**

Analysis ID:	21-3452-4438	**Endpoint:**	Proportion Normal (of Initial)	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 11:57	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	~~Mod-Hard-Synthetic~~ Water
Ending Date:	05 Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	Dechlor
Duration:	40d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	07-0545-3934	**Code:**	2A0C5F6E	**Client:**	BCMA
Sample Date:	26 May-10	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	26 May-10	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	15	45	25.98		19.6%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	0.6673	1.753	6	0.1574	>0.05	Non-Significant Effect
		15	1.778	1.84	6	0.1652	>0.05	Non-Significant Effect
		45*	3.395	1.868	6	0.1677	<0.05	Significant Effect
		135*	6.819	1.882	6	0.169	<0.05	Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		2.383	2.708	0.2017	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.9542432	0.2385608	4	14.79	<0.0001	Significant Effect
Error	0.2419094	0.0161273	15			
Total	1.196153	0.2546881	19			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	1.569	13.28	0.8144	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9564	0.866	0.4755	Normal Distribution

Proportion Normal Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.7583	0.7219	0.7948	0.7	0.9	0.04787	0.09574	12.63%	0.0%
5		4	0.7083	0.6705	0.7462	0.6	0.8333	0.04977	0.09954	14.05%	6.59%
15		4	0.6167	0.5786	0.6547	0.5333	0.7333	0.05	0.1	16.22%	18.68%
45		4	0.475	0.4401	0.5099	0.3667	0.5667	0.0459	0.09179	19.32%	37.36%
135		4	0.2083	0.1628	0.2539	0.03333	0.3	0.0599	0.1198	57.5%	72.53%
405		4	0	0	0	0	0	0	0		100.0%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	4	1.065	1.018	1.112	0.9912	1.249	0.06201	0.124	11.65%	0.0%
5		4	1.005	0.962	1.048	0.8861	1.15	0.05646	0.1129	11.24%	5.63%
15		4	0.9052	0.8656	0.9449	0.8188	1.028	0.0521	0.1042	11.51%	14.99%
45		4	0.76	0.7248	0.7952	0.6504	0.8523	0.04627	0.09254	12.18%	28.63%
135		4	0.4525	0.3833	0.5217	0.1836	0.5796	0.09095	0.1819	40.2%	57.51%
405		4	0.09141	0.09141	0.09142	0.09141	0.09141	0	0	0.0%	91.42%

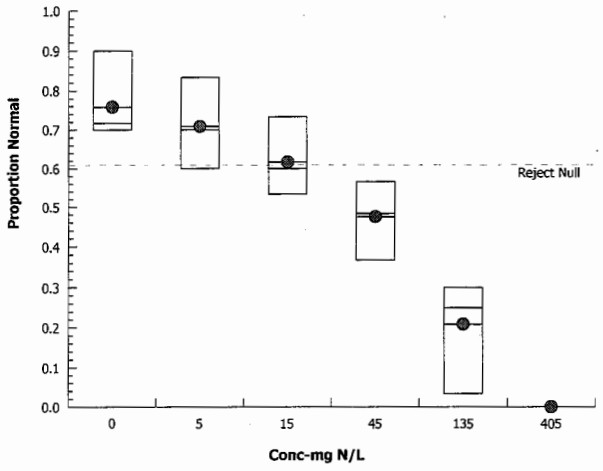
Salmonid Embryo Survival and Development Test % Swim-up — **Nautilus Environmental**

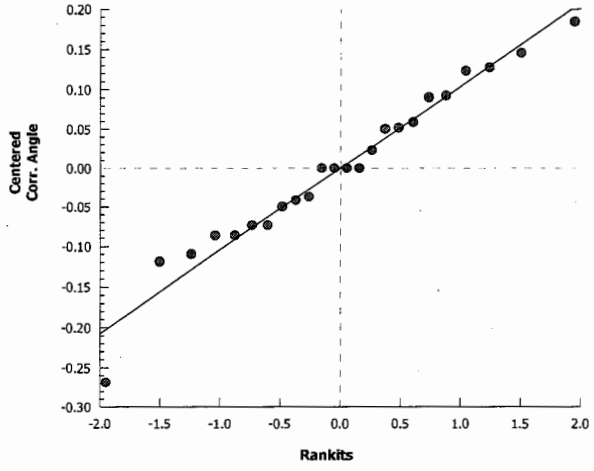
Analysis ID:	21-3452-4438	**Endpoint:**	Proportion Normal (of Initial)	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 11:57	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Proportion Normal Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.7	0.7333	0.7	0.9
5		0.6	0.7333	0.8333	0.6667
15		0.6667	0.7333	0.5333	0.5333
45		0.5333	0.4333	0.5667	0.3667
135		0.3	0.03333	0.2667	0.2333
405		0	0	0	0

Graphics





CETIS Analytical Report

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ 21d Nat

Nautilus Environmental

Analysis ID:	00-9392-1449	**Endpoint:**	Mean ~~Dry~~ Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 12:03	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival (~~7d~~ 21d)	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	~~Mod-Hard Synthetic~~ Water Dechlor
Ending Date:	05 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	40d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	00-3019-2864	**Code:**	NO3-DC-WW	**Client:**	BCMA
Sample Date:	20 Jul-10 09:39	**Material:**	NO3	**Project:**	
Receive Date:	20 Jul-10 09:39	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1.736E+09	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value	Grubbs Extreme Value	2.275	2.802	0.3933	No Outliers Detected

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	28.86	N/A	92.9
IC10	94.95	8.03	N/A
IC15	>405	N/A	N/A
IC20	>405	N/A	N/A
IC25	>405	N/A	N/A
IC40	>405	N/A	N/A
IC50	>405	N/A	N/A

Mean Dry Weight-mg Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	84.05	78.8	88.31	2.02	4.04	4.81%	0.0%
5		4	83.73	80.7	86.83	1.292	2.583	3.09%	0.39%
15		4	80.95	80.07	82.63	0.575	1.15	1.42%	3.69%
45		4	79.08	77.55	82.71	1.222	2.444	3.09%	5.91%
135		4	71.86	69.31	74.04	0.9931	1.986	2.76%	14.5%
405		4	76.17	69.67	81	2.661	5.323	6.99%	9.38%

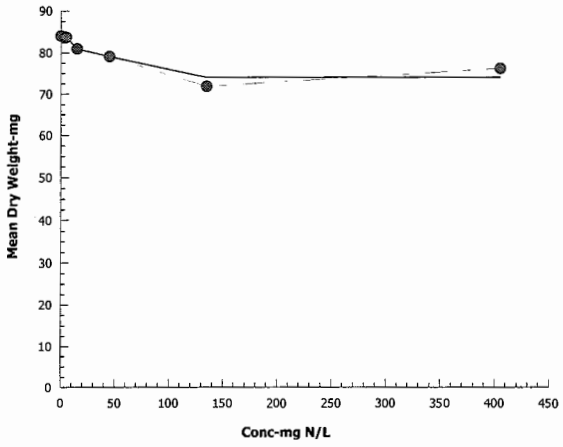
Mean Dry Weight-mg Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	83.37	88.31	78.8	85.72
5		80.7	84.46	82.9	86.83
15		80.07	82.63	80.69	80.41
45		78.33	82.71	77.55	77.73
135		72.56	69.31	71.54	74.04
405		74	80	69.67	81

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ wet **Nautilus Environmental**

Analysis ID:	00-9392-1449	**Endpoint:**	Mean ~~Dry~~ Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 12:03	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ 4T wet

Nautilus Environmental

Analysis ID:	09-0727-1896	**Endpoint:**	Mean ~~Dry~~ Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 12:02	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ 4T	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	~~Mod-Hard Synthetic~~ Water Dechlor
Ending Date:	05 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	40d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	00-3019-2864	**Code:**	NO3-DC-WW	**Client:**	BCMA
Sample Date:	20 Jul-10 09:39	**Material:**	NO3	**Project:**	
Receive Date:	20 Jul-10 09:39	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	15	45	25.98		5.07%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	0.142	1.734	6	3.959	>0.05	Non-Significant Effect
		15	1.357	1.818	6	4.151	>0.05	Non-Significant Effect
		45*	2.175	1.845	6	4.213	<0.05	Significant Effect
		135*	5.339	1.859	6	4.245	<0.05	Significant Effect
		405*	4.396	1.867	6	4.263	<0.05	Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		2.275	2.802	0.3933	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	440.3772	88.07543	5	8.446	0.0003	Significant Effect
Error	187.6948	10.42749	18			
Total	628.072	98.50292	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	6.887	15.09	0.2292	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9681	0.884	0.6196	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	84.05	82.51	85.59	78.8	88.31	2.02	4.04	4.81%	0.0%
5		4	83.73	82.74	84.71	80.7	86.83	1.292	2.583	3.09%	0.39%
15		4	80.95	80.51	81.39	80.07	82.63	0.575	1.15	1.42%	3.69%
45		4	79.08	78.15	80.01	77.55	82.71	1.222	2.444	3.09%	5.91%
135		4	71.86	71.1	72.61	69.31	74.04	0.9931	1.986	2.76%	14.5%
405		4	76.17	74.14	78.19	69.67	81	2.661	5.323	6.99%	9.38%

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ AT wet

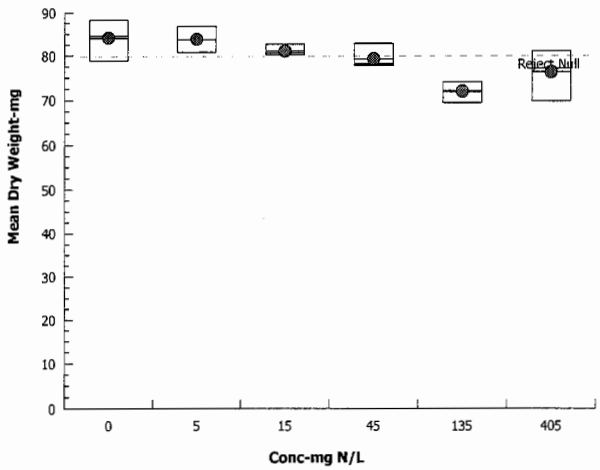
Nautilus Environmental

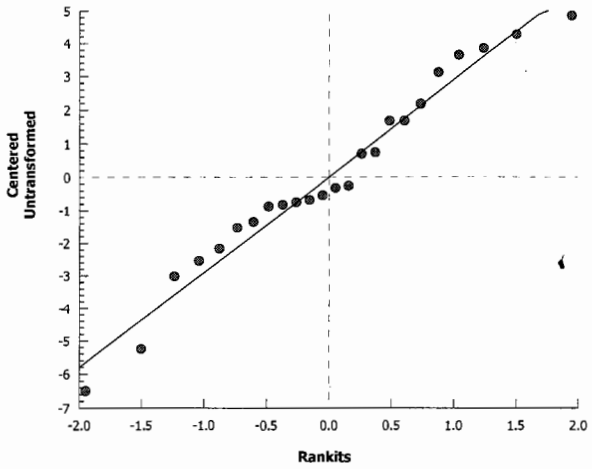
Analysis ID:	09-0727-1896	**Endpoint:**	Mean Dry Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 12:02	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	83.37	88.31	78.8	85.72
5		80.7	84.46	82.9	86.83
15		80.07	82.63	80.69	80.41
45		78.33	82.71	77.55	77.73
135		72.56	69.31	71.54	74.04
405		74	80	69.67	81

Graphics





CETIS Analytical Report

EAF Test

Test Code: 01-7098-7755/NO3-DC-Le

~~Fathead Minnow 7 d Larval Survival and Growth Test~~ Nautilus Environmental

Analysis ID:	01-2735-9646	**Endpoint:**	SAB ~~Mean Dry Weight-mg~~ Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	13 Aug-10 11:04	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ SAB	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Dechlorinated Tap Water
Ending Date:	26 May-10 12:00	**Species:**	~~Pimephales promelas~~ O. mykiss	**Brine:**	
Duration:	N/A	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	18-2668-4126	**Code:**	NO3-DC-Le	**Client:**	BCMA
Sample Date:	20 Jul-10 11:04	**Material:**	NO3	**Project:**	
Receive Date:	20 Jul-10 11:04	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	57951	200	Yes	Two-Point Interpolation

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	43.909	20.483	61.353
IC10	111.14	76.803	N/A
IC15	>405	N/A	N/A
IC20	>405	N/A	N/A
IC25	>405	N/A	N/A
IC40	>405	N/A	N/A
IC50	>405	N/A	N/A

Mean Dry Weight-mg Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	24.625	24.4	25	0.048018	0.26301	1.07%	0.0%
5		4	24.6	24.2	25	0.066666	0.36515	1.48%	0.1%
15		4	24.2	23.6	24.8	0.090678	0.49666	2.05%	1.73%
45		4	23.375	23.1	23.8	0.056523	0.30959	1.32%	5.08%
135		4	21.9	21.3	22.2	0.074535	0.40824	1.86%	11.07%
405		4	21.375	20	22.5	0.20242	1.1087	5.19%	13.2%

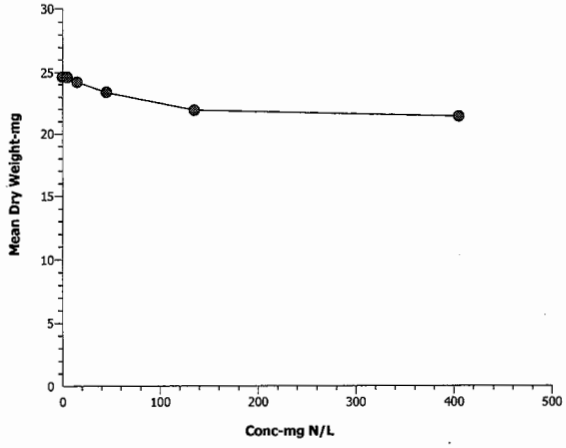
Mean Dry Weight-mg Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	24.4	24.6	24.5	25
5		24.4	25	24.2	24.8
15		24.3	24.8	23.6	24.1
45		23.4	23.2	23.8	23.1
135		22	21.3	22.2	22.1
405		21	22.5	20	22

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ **Nautilus Environmental**

Analysis ID:	01-2735-9646	**Endpoint:**	~~Mean Dry Weight-mg~~ Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	13 Aug-10 11:04	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

EAF Test

~~Fathead Minnow 7-d Larval Survival and Growth Test~~

Nautilus Environmental

Analysis ID:	12-2875-3133	**Endpoint:**	~~Mean Dry Weight-mg~~ Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	28 Sep-10 10:42	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ JKB	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Dechlorinated Tap Water
Ending Date:	26 May-10 12:00	**Species:**	~~Pimephales promelas~~ O.mykiss	**Brine:**	
Duration:	N/A	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	18-2668-4126	**Code:**	NO3-DC-Le	**Client:**	BCMA
Sample Date:	20 Jul-10 11:04	**Material:**	NO3	**Project:**	
Receive Date:	20 Jul-10 11:04	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	15	45	25.981		3.05%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		5	0.062164	1.734	0.69735	>0.05	Non-Significant Effect
		15	1.0568	1.818	0.73113	>0.05	Non-Significant Effect
		45*	3.1082	1.845	0.74199	<0.05	Significant Effect
		135*	6.7758	1.859	0.74762	<0.05	Significant Effect
		405*	8.0813	1.867	0.75084	<0.05	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	39.65708	7.931416	5	24.52	<0.0001	Significant Effect
Error	5.822498	0.3234721	18			
Total	45.47958	8.254889	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	8.6167	15.086	0.1254	Equal Variances
Distribution	Shapiro-Wilk Normality	0.96977		0.6614	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	24.625	24.525	24.725	24.4	25	0.048839	0.26301	1.07%	0.0%
5		4	24.6	24.461	24.739	24.2	25	0.067806	0.36515	1.48%	0.1%
15		4	24.2	24.011	24.389	23.6	24.8	0.092228	0.49666	2.05%	1.73%
45		4	23.375	23.257	23.493	23.1	23.8	0.057489	0.30959	1.32%	5.08%
135		4	21.9	21.745	22.055	21.3	22.2	0.075809	0.40824	1.86%	11.07%
405		4	21.375	20.953	21.797	20	22.5	0.20588	1.1087	5.19%	13.2%

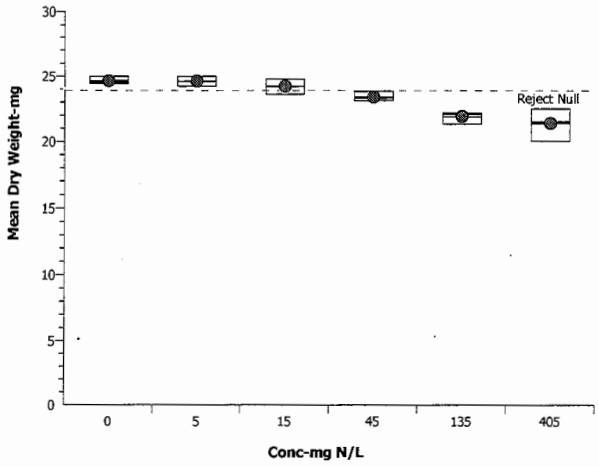
~~Fathead Minnow 7-d Larval Survival and Growth Test~~ **Nautilus Environmental**

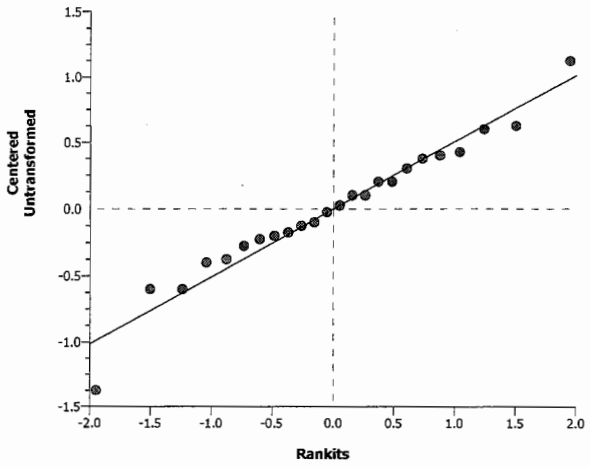
Analysis ID: 12-2875-3133 **Endpoint:** ~~Mean Dry Weight-mg~~ Length **CETIS Version:** CETISv1.7.0
Analyzed: 28 Sep-10 10:42 **Analysis:** Parametric-Control vs Ord.Treatments **Official Results:** Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	24.4	24.6	24.5	25
5		24.4	25	24.2	24.8
15		24.3	24.8	23.6	24.1
45		23.4	23.2	23.8	23.1
135		22	21.3	22.2	22.1
405		21	22.5	20	22

Graphics





CETIS Analytical Report

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	04-3178-3495	**Endpoint:**	Proportion Normal of surviving (% survival)	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 12:07	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	~~Mod-Hard-Synthetic~~ Water
Ending Date:	05 Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	Dechlor
Duration:	39d 12h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	16-7787-9387	**Code:**	NO3-DC-De/Sur	**Client:**	BCMA
Sample Date:	21 Jul-10 10:52	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	21 Jul-10 10:52	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	5	15	8.66		18.2%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	0.9266	1.753	6	0.1645	>0.05	Non-Significant Effect
		15*	1.876	1.84	6	0.1727	<0.05	Significant Effect
		45*	3.475	1.868	6	0.1753	<0.05	Significant Effect
		135*	6.742	1.882	6	0.1766	<0.05	Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		2.406	2.708	0.1846	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.9864427	0.2466107	4	14	<0.0001	Significant Effect
Error	0.2641815	0.0176121	15			
Total	1.250624	0.2642228	19			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	2.642	13.28	0.6195	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9365	0.866	0.2053	Normal Distribution

Proportion Normal Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.7943	0.7508	0.8378	0.7	0.931	0.05713	0.1143	14.39%	0.0%
5		4	0.7298	0.702	0.7576	0.6667	0.8	0.03654	0.07309	10.02%	8.13%
15		4	0.648	0.614	0.682	0.5517	0.7333	0.04473	0.08947	13.81%	18.42%
45		4	0.5024	0.4613	0.5435	0.3667	0.5926	0.05403	0.1081	21.51%	36.74%
135		4	0.2324	0.1814	0.2833	0.03846	0.3333	0.06694	0.1339	57.62%	70.74%
405		4	0	0	0	0	0	0	0		100.0%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	4	1.114	1.056	1.172	0.9912	1.305	0.07614	0.1523	13.67%	0.0%
5		4	1.027	0.9953	1.058	0.9553	1.107	0.04144	0.08288	8.07%	7.81%
15		4	0.9377	0.9019	0.9735	0.8372	1.028	0.04705	0.0941	10.04%	15.81%
45		4	0.7877	0.7462	0.8291	0.6504	0.8785	0.05451	0.109	13.84%	29.28%
135		4	0.4811	0.4077	0.5545	0.1974	0.6155	0.09651	0.193	40.12%	56.8%
405		4	0.3848	0.3475	0.4221	0.2928	0.5236	0.04901	0.09801	25.47%	65.45%

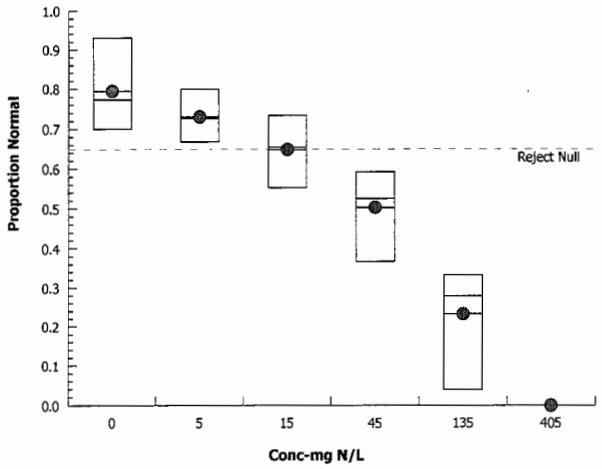
Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

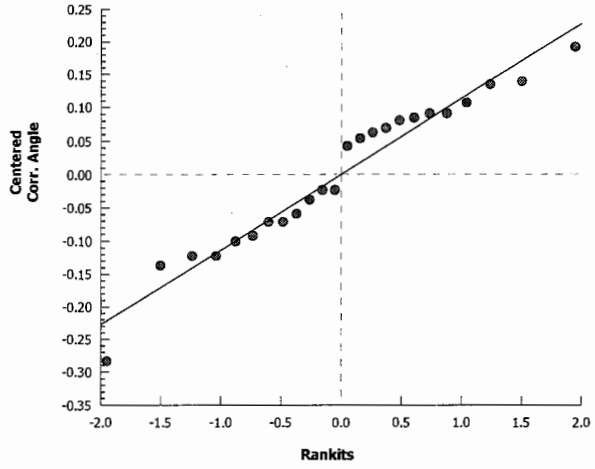
Analysis ID:	04-3178-3495	**Endpoint:**	Proportion Normal	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 12:07	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Proportion Normal Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.7	0.8462	0.7	0.931
5		0.6667	0.7857	0.8	0.6667
15		0.7143	0.7333	0.5517	0.5926
45		0.5926	0.4643	0.5862	0.3667
135		0.3333	0.03846	0.3077	0.25
405		0	0	0	0

Graphics





Salmonid Embryo Survival and Development Test

Nautilus Environmental

Analysis ID:	01-6732-1726	**Endpoint:**	Proportion Normal of surviving (% survival)	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 12:09	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	~~Mod-Hard Synthetic~~ Dechlor Water
Ending Date:	05 Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	39d 12h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	16-7787-9387	**Code:**	NO3-DC-De/Sur	**Client:**	BCMA
Sample Date:	21 Jul-10 10:52	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	21 Jul-10 10:52	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	399823728	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value	Grubbs Extreme Value	2.514	2.802	0.1683	No Outliers Detected

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC5	2.205	N/A	22.34
EC10	6.478	N/A	25.63
EC15	11.05	N/A	30.7
EC20	16.93	N/A	37.45
EC25	22.73	2.124	60.63
EC40	49.97	19.56	81.23
EC50	69.34	34.27	111.2

Proportion Normal Summary

			Calculated Variate(A/B)								
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.7943	0.7	0.931	0.05713	0.1143	14.39%	0.0%	91	115
5		4	0.7298	0.6667	0.8	0.03654	0.07309	10.02%	8.13%	84	115
15		4	0.648	0.5517	0.7333	0.04473	0.08947	13.81%	18.42%	74	114
45		4	0.5024	0.3667	0.5926	0.05403	0.1081	21.51%	36.74%	57	114
135		4	0.2324	0.03846	0.3333	0.06694	0.1339	57.62%	70.74%	25	107
405		4	0	0	0	0	0		100.0%	0	8

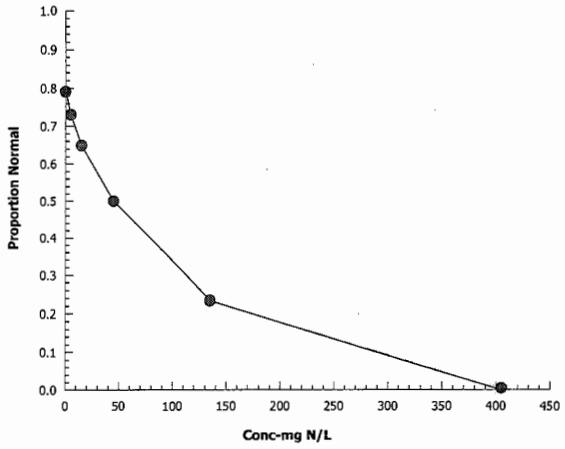
Proportion Normal Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.7	0.8462	0.7	0.931
5		0.6667	0.7857	0.8	0.6667
15		0.7143	0.7333	0.5517	0.5926
45		0.5926	0.4643	0.5862	0.3667
135		0.3333	0.03846	0.3077	0.25
405		0	0	0	0

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	01-6732-1726	**Endpoint:**	Proportion Normal	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 12:09	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: Control Dechlor
Work Order #: n/a
Start Date & Time: May 26/11@1600h
Stop Date & Time: July 5/11@0930h
Test Species: *Oncorhynchus mykiss*

Treatment: Control DC	Days													
	0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.3	10.5		10.4	10.3	10.2		10.2		10.1	10.2	10.1		10.3
pH	7.0	7.5		7.1	7.3	7.3		7.3		7.3	7.3	7.1		7.2
Cond. (µS/cm)	36			33						34				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: Control DC	Days													
	7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0		14.0	13.5	14.0		14.0		13.5	14.0	14.0		13.5
DO (mg/L)	10.3	10.1		9.7	10.1	10.2		10.2		10.1	10.2	9.8		9.7
pH	6.9	7.3		6.9	7.1	7.3		7.3		6.9	7.0	6.9		7.1
Cond. (µS/cm)	31			30						32				
Initials	JAB	SKM		JAB		~		~		JAB		JAB		JAB

Treatment: Control DC	Days													
	14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		14.0	14.0	13.5		13.5
DO (mg/L)	9.8	9.8		10.0	10.2	10.2		10.0		9.9	10.0	9.7		10.1
pH	7.0	6.9		7.3	7.1	7.2		7.3		7.0	7.1	7.0		7.2
Cond. (µS/cm)	31			32						32				
Initials	JAB	SKM		~		~		~		JAB		JAB		JAB

Treatment: Control DC	Days													
	21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	9.9		9.9	9.9	10.2		10.0		9.7	10.0	10.3		10.2
pH	7.1	6.9		7.2	7.0	6.9		7.1		7.1	7.0	6.8		7.0
Cond. (µS/cm)	32			32						31				
Initials	JAB	JAB		JAB		~		~		SKM		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control-1	Control-2	Control-3	Control-3
Hardness*	6	12		
Alkalinity*	10	8		

* mg/L as $CaCO_3$

See attached Table

Analysts: JAB

Reviewed by: ART

Date reviewed: April 28, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: control Declor
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 5/11 @ 0930h
Test Species: *Oncorhynchus mykiss*

Treatment: Control Dechlor	Days 29	30		31		32		33		34		35		36
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	13.5	14.3		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.1	10.3		10.1	10.2	12.0		10.1		10.2	10.2	10.1		10.1
pH	7.2	7.0		~~10.1~~ 7.1 JAB	~~10.2~~ 7.0 JAB	7.3		7.3		6.9	7.0	7.2		7.2
Cond. (µS/cm)	30			30						31				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: Control Dechlor	Days 36	37		38		39		40		41		42		43
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0		14.0	14.0	14.0		14.0						
DO (mg/L)	10.2	9.8		10.2	10.2	10.2		9.5						
pH	7.3	7.1		7.2	7.2	7.3		7.3						
Cond. (µS/cm)	32			32										
Initials	JAB	JJ		~		~		~						

Treatment: Control Dechlor	Days 44	45		46		47		48		49		50		51
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment: Control Dechlor	Days 51	52		53		54		55		56		57		58
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB
Reviewed by: JRT
Date reviewed: April 28, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 5mg N/L Dechlor
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 5/11 @ 930h
Test Species: *Oncorhynchus mykiss*

Treatment: 5mg N/L DC	Days													
	0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.3	10.5		10.4	10.4	10.2		10.2		10.1	10.1	10.1		10.3
pH	7.0	7.5		7.1	7.2	7.2		7.3		7.3	7.2	7.1		7.2
Cond. (µS/cm)	77			77						78				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: 5 DC	Days													
	7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.8	13.5		14.0	13.5	14.0		14.0		13.5	14.0	14.0		13.5
DO (mg/L)	10.3	10.1		9.9	9.9	10.2		10.3		10.1	10.0	9.8		9.7
pH	6.8	7.2		7.0	7.0	7.2		7.3		6.9	7.1	7.0		7.1
Cond. (µS/cm)	77			76						84				
Initials	JAB	SKM		JAB		~		~		JAB		JAB		JAB

Treatment: 5 DC	Days													
	14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		14.0	14.0	13.5		13.5
DO (mg/L)	9.9	9.9		10.1	10.2	10.2		10.3		9.9	10.1	9.7		10.1
pH	7.0	6.9		7.1	7.2	7.2		7.3		7.0	7.3	7.1		7.2
Cond. (µS/cm)	77			71						82				
Initials	JAB	SKM		~		~		~		JAB		SKM		JAB

Treatment: 5 DC	Days													
	21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	9.9		9.9	9.8	10.2		10.2		10.0	10.1	10.3		10.4
pH	7.0	6.9		7.1	7.0	6.9		7.1		7.1	6.9	6.8		7.0
Cond. (µS/cm)	75			76						76				
Initials	JAB	JAB		JAB		~		~		SKM		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB
Reviewed by: ART
Date reviewed: May 11/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 5 mg/L Dechlor
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 5/11 @ 0930h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
5 mg/L Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	13.5	14.0		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.1	10.3		10.3	10.2	12.3		6.2		10.3	10.2	10.0		10.1
pH	7.3	7.0		7.1	102.1	7.3		7.3		6.8	7.3	7.2		7.2
Cond. (µS/cm)	75			77						88				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
5 mg/L Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0		14.0	14.0	14.0		14.0						
DO (mg/L)	10.2	9.8		10.2	10.2	~~7.3~~ 10.2		10.0						
pH	7.3	7.2		7.2	7.2	7.3		7.3						
Cond. (µS/cm)	99			67										
Initials	JAB	JJT				~		~						

Treatment	Days													
	44	45		46		47		48		49		50		51
5 Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
5 Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB
Reviewed by: RT
Date reviewed: May 11/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 15mg N/L Dechlor
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 5/11 @ 0930h
Test Species: *Oncorhynchus mykiss*

Treatment: 15 mg N/L DC	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.4	10.4		10.4	10.5	10.2		10.2		10.1	10.1	10.1		10.3
pH	7.0	7.5		7.1	7.2	7.2		7.2		7.3	7.2	7.1		7.2
Cond. (µS/cm)	159			161						168				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: 15 mg N/L DC	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	13.5	14.0		14.0		13.5	14.0	14.0		13.5
DO (mg/L)	10.3	10.0		9.9	10.0	10.2		10.2		10.6	9.9	9.8		9.8
pH	6.9	7.2		7.0	7.0	7.2		7.3		6.9	7.0	7.0		7.1
Cond. (µS/cm)	167			167						180				
Initials	JAB	SKM		JAB		~		~		JAB		JAB		JAB

Treatment: 15 mg N/L DC	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		14.0	14.0	13.5		13.5
DO (mg/L)	10.1	10.0		10.1	10.2	10.2		10.2		10.0	10.2	10.1		10.1
pH	7.0	6.9		7.3	7.2	7.1		7.2		7.1	7.2	7.1		7.2
Cond. (µS/cm)	167			168						173				
Initials	JAB	SKM		~		~		~		JAB		SKM		JAB

Treatment: 15 DC	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	9.9		9.7	9.9	10.2		10.3		9.9	10.1	10.3		10.4
pH	7.1	6.9		7.1	6.9	6.9		7.1		7.1	7.0	6.8		7.0
Cond. (µS/cm)	162			164						165				
Initials	JAB	JAB		JAB		~		~		SKM		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB

Reviewed by: KRT

Date reviewed: May 11/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 15 mg/L Dechlor
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 5/11 @ 0930h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
15mg/L Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	13.5	14.0		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.7	10.7		10.9	10.2	10.2		10.2		10.2	10.2	9.8		10.1
pH	7.2	7.0		7.1	7.1	7.2		7.2		6.8	7.3	7.1		7.1
Cond. (µS/cm)	161			165						184				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
15 Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0		14.0	14.0	14.0		14.0						
DO (mg/L)	10.2	9.8		10.2	10.2	10.2		9.9						
pH	7.3	7.2		7.2	7.2	7.2		7.2						
Cond. (µS/cm)	172			165										
Initials	JAB	JAB		~		~		~						

Treatment	Days													
	44	45		46		47		48		49		50		51
15 Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
15 Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB

Reviewed by: ART
Date reviewed: April 28/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 45 mg N/L Dechlor
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 5/11 @ 0930h
Test Species: *Oncorhynchus mykiss*

Treatment: 45 mg N/L DC	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.3	10.5		10.4	10.4	10.2		10.2		10.1	10.1	10.1		10.3
pH	7.0	7.5		7.1	7.2	7.1		7.2		7.3	7.2	7.1		7.2
Cond. (µS/cm)	409			404						426				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: 45 DC	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	13.5	14.0		14.0		13.5	14.0	14.0		13.5
DO (mg/L)	10.3	10.0		10.0	10.0	10.2		10.3		10.1	10.0	9.9		9.7
pH	6.9	7.2		7.0	6.9	7.1		7.2		6.9	7.0	7.0		7.1
Cond. (µS/cm)	432			427						463				
Initials	JAB	SLM		JAB		~		~		JAB		JAB		SLM

Treatment: 45 DC	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		14.0	14.0	13.5		13.5
DO (mg/L)	10.0	10.0		10.2	10.2	10.1		10.2		9.9	10.2	10.2		10.1
pH	7.1	7.0		7.2	7.1	7.1		7.1		7.1	7.2	7.1		7.2
Cond. (µS/cm)	432			421						439				
Initials	JAB	SLM		~		~		~		JAB		SLM		JAB

Treatment: 45 DC	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	9.9		9.7	10.0	10.1		10.1		9.8	10.0	10.3		10.4
pH	7.1	6.9		7.1	6.9	6.9		7.0		7.1	7.0	6.8		7.0
Cond. (µS/cm)	411			420						427				
Initials	JAB	JAB		JAB		~		~		SLM		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [illegible]

Date reviewed: May 11/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 45 mg/L Dechlor
Work Order #: n/a

Start Date & Time: May 26/10@1600h
Stop Date & Time: July 5/11@0930h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
45mg/L Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	13.5	14.0		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	10.2		10.2	10.2	10.2		10.2		10.2	10.2	9.6		10.1
pH	7.2	6.9		7.1	7.1	7.2		7.2		6.8	7.3	7.1		7.1
Cond. (µS/cm)	418			429						468				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
45 Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0		14.0	14.0	14.0		14.0						
DO (mg/L)	10.2	9.8		10.2	12.2	10.2		9.8						
pH	7.2	7.1		7.1	7.2	7.2		7.2						
Cond. (µS/cm)	438			422										
Initials	JAB	JJ		~		~		~						

Treatment	Days													
	44	45		46		47		48		49		50		51
45 Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
45 Dechlor	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB

Reviewed by: ART
Date reviewed: April 28/08/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 135 mg N/L Dechlor
Work Order #: n/a

Start Date & Time: May 26/10 @1600h
Stop Date & Time: July 5/11 @0930h
Test Species: *Oncorhynchus mykiss*

Treatment: 135mg N/L DC	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.4	10.3		10.3	10.4	10.2		10.2		10.1	10.1	10.1		10.0
pH	7.0	7.4		7.1	7.1	7.2		7.1		7.2	7.2	7.1		7.2
Cond. (µS/cm)	1097			1130						1136				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: 135 DC	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	13.5	14.0		14.0		13.5	14.0	14.0		13.5
DO (mg/L)	10.3	10.1		9.9	10.1	10.2		10.3		10.1	10.0	9.8		9.7
pH	6.8	7.1		7.0	6.9	7.1		7.2		6.9	7.0	7.0		7.1
Cond. (µS/cm)	1151			1142						1208				
Initials	JAB	SKM		JAB		~		~		JAB		JAB		JAB

Treatment: 135 DC	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		14.0	14.0	13.5		13.5
DO (mg/L)	10.2	10.0		10.2	10.2	10.2		10.3		10.0	10.1	10.2		10.2
pH	7.0	6.9		7.1	7.1	7.0		7.1		7.10	7.2	7.1		7.1
Cond. (µS/cm)	1160			1120						1176				
Initials	JAB	SKM		~		~		~		JAB		SKM		JAB

Treatment: 135 DC	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	9.9		9.9	9.9	10.1		10.2		9.9	10.0	10.3		10.1
pH	7.1	6.8		7.1	7.1	6.9		7.0		7.1	6.9	6.7		6.9
Cond. (µS/cm)	1138			1155						1186				
Initials	JAB	JAB		JAB		~		~		SKM		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB

Reviewed by: ABT

Date reviewed: May 11/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 135mg N/L Dechlor
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 5/11 @ 0930h
Test Species: *Oncorhynchus mykiss*

Treatment 135 mg/L Dechlor	Days 29	30		31		32		33		34		35		36
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	13.5	M.P		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.0	10.3		10.3	10.2	10.2		10.2		10.2	10.2	10.2		10.2
pH	7.1	6.9		7.1	7.1	7.1		7.1		7.0	7.3	7.1		7.1
Cond. (µS/cm)	1144			1146						1254				
Initials	JAB	JAB		JAB		~		~		JPB		JAB		JAB

Treatment 135 Dechlor	Days 36	37		38		39		40		41		42		43
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0		14.0	14.2	14.2		14.2						
DO (mg/L)	10.2	10.1		10.1	10.2	10.3		10.0						
pH	7.2	7.2		7.1	7.1	7.1		7.1						
Cond. (µS/cm)	1171			1149										
Initials	JAB	JAB		~		~		~						

Treatment 135 Dechlor	Days 44	45		46		47		48		49		50		51
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment 135 Dechlor	Days 51	52		53		54		55		56		57		58
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB

Reviewed by: ~~AET~~ LT

Date reviewed: ~~April 28/08~~ April 28 LT 11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 405 mg N/L Dechlor
Work Order #: n/a

Start Date & Time: May 26/10 @1600h
Stop Date & Time: July 5/11 @0930h
Test Species: *Oncorhynchus mykiss*

Treatment: 405 mg N/L DC	Days													
	0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.3	10.2		10.3	10.3	10.2		12.2		10.1	10.1	10.1		10.3
pH	6.9	7.3		7.1	7.0	7.2		7.0		7.2	7.1	7.0		7.1
Cond. (µS/cm)	3180			3130						3110				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: 405 DC	Days													
	7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	13.5	14.0		14.0		13.5	14.0	14.0		13.5
DO (mg/L)	10.3	10.2		9.9	10.0	12.2		10.3		10.0	10.1	9.8		9.7
pH	6.8	7.0		6.9	6.8	7.0		7.0		6.9	6.9	7.0		7.1
Cond. (µS/cm)	3120			3110						3320				
Initials	JAB	SLM		JAB		~		~		JAB		JAB		JAB

Treatment: 405 DC	Days													
	14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		14.0	14.0	13.5		13.5
DO (mg/L)	9.9	10.0		10.2	10.2	12.2		10.3		10.0	10.0	10.3		10.0
pH	7.0	6.9		7.1	7.1	7.0		7.0		7.1	7.0	7.1		7.1
Cond. (µS/cm)	3270			3220						3270				
Initials	JAB	SLM		~		~		~		JAB		SLM		JAB

Treatment: 405 DC	Days													
	21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.0		10.0	9.9	10.2		10.1		10.0	10.2	10.3		10.4
pH	7.0	6.8		7.0	7.0	6.8		6.9		7.0	6.9	6.7		6.9
Cond. (µS/cm)	3240			3160						3260				
Initials	JAB	JAB		JAB		~		~		SLM		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB

Reviewed by: ART

Date reviewed: May 11/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 405 mg/L Dechlor
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 5/11 @ 0930h
Test Species: *Oncorhynchus mykiss*

Treatment: 405 mg/L Dechlor	Days													
	29	30		31		32		33		34		35		36
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	13.5	14.0		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.0	10.3		10.3	10.2	10.2		10.3		10.2	10.2	10.0		10.2
pH	7.0	6.8		7.0	6.9	7.0		7.1		6.9	7.2	7.0		7.0
Cond. (µS/cm)	3160			3290						3470				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: 405 Dechlor	Days													
	36	37		38		39		40		41		42		43
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0		14.0	14.0	14.0		14.0						
DO (mg/L)	10.2	~~9.5~~ 10.0		10.1	10.2	10.2		9.9						
pH	7.1	7.1		7.2	7.1	7.0		7.0						
Cond. (µS/cm)	3210			3410										
Initials	JAB	JJ		~		~		~						

Treatment: 405 Dechlor	Days													
	44	45		46		47		48		49		50		51
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment: 405 Dechlor	Days													
	51	52		53		54		55		56		57		58
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB

Reviewed by: LRT

Date reviewed: April 28/11

Sample Description:

Comments:

Client: MABC

W.O.#: n/a

Hardness and Alkalinity Datasheet

	Alkalinity						Hardness			
Sample ID	Sample Date	Sample Volume (mL)	(mL) 0.02N HCL/H_2SO_4 used to pH 4.5	(mL) of 0.02N HCL/H_2SO_4 used to pH 4.2	Total Alkalinity ($mg/LCaCO_3$)		Sample Volume (mL)	Volume of 0.01M EDTA Used (mL)	Total Hardness ($mg/L\ CaCO_3$)	Technician
HW-Dilution	05/26/10	50	6.0	6.1	118		50	8.5	170	SKM
MHW-Dilution	05/26/10	50	3.2	3.3	62		50	4.2	84	SKM
SW-Dilution	05/26/10	50	1.8	1.9	34		50	2.3	46	SKM
Dechlor-Dilution	05/26/10	50	0.6	0.7	10		50	0.3	6	SKM
HW-Dilution	06/03/10	50	6.0	6.1	118		50	9.3	186	SKM
MHW-Dilution	06/03/10	50	3.3	3.4	64		50	5.1	102	SKM
SW-Dilution	06/03/10	50	2.0	2.1	38		50	2.8	56	SKM
Dechlor-Dilution	06/03/10	50	0.5	0.6	8		50	0.6	12	SKM
HW-Dilution	06/14/10	50	5.8	5.9	114 SKM		50	8.9	178	SKM
MHW-Dilution	06/14/10	50	3.4	3.3	70		50	4.5	90	SKM
SW-Dilution	06/14/10	50	1.6	~~1.7~~ 1.5 SKM	34		50	2.5	50	SKM
Dechlor-Dilution	06/14/10	50	0.4	0.5	6		50	0.5	10	SKM
HW-Dilution	06/23/10	50	5.8	5.9	114		50	8.5	170	JAB
MHW-Dilution	06/23/10	50	3.1	3.2	60		50	4.7	94	JAB
SW-Dilution	06/23/10	50	1.7	1.8	32		50	2.5	50	JAB
Dechlor-Dilution	06/23/10	50	0.5	0.6	8		50	0.5	10	JAB

Notes: _____

Reviewed by: _____ Date Reviewed: _____

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: Dechlor Control A

Start Date: May 26/10

Termination Date: ~~July 2/10~~ July 5/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3) (a)	Initials	Wet Organism Weight (g) (all)	No. weighed	Initials
1	25	0	JAB	2.501	30	JAB
2	25	0	↓			
3	24	1	↓			
4	25	↓	↓			
5	24	1	↓			
6	26	0	↓			
7	24	1	↓			
8	25	0	↓			
9	25	0	↓			
10	24	1	↓			
11	25	0	↓			
12	24	0	↓			
13	24	1	↓			
14	24	1	↓			
15	25	0	↓			
16	24	0	↓			
17	23	0	↓			
18	25	1	↓			
19	25	0	↓			
20	23	1	↓			
21	25	0	↓			
22	24	1	↓			
23	24	0	↓			
24	26	↓	↓			
25	24	↓	↓			
26	24	↓	↓			
27	26	↓	↓			
28	22	↓	↓			
29	23	1	↓			
30	24	0	✓			

9

1.28479 1.76539

(a).

0: normal swim-up fish (normal)

1: small yolk sac (abnormal)

2: yolk sac (abnormal)

3: large yolk sac (abnormal)

ART May 11/11

Dechlor Control A

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC Control B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	20	1	JAB	2.296	26	JAB
2	23	0				
3	28	0				
4	26	0				
5	25	1				
6	26	0				
7	25	0				
8	25	0				
9	27	0				
10	24	1				
11	22	0				
12	23	0				
13	23	0				
14	24	0				
15	25	0				
16	25	0				
17	24	0				
18	25	1				
19	24	0				
20	25	0				
21	25	0				
22	25	0				
23	25	0				
24	25	0				
25	26	0				
26	24	0	J			
27						
28						
29						
30						

1.29301 1.74010

4

DC Control B

ART May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC Control C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.364	30	JAB
2	25	0				
3	24	1				
4	26	0				
5	23	1				
6	24	0				
7	24	0				
8	26	0				
9	25	0				
10	25	0				
11	25	0				
12	25	1				
13	24	0				
14	25	0				
15	25	0				
16	24	0				
17	25	1				
18	25	0				
19	24	0				
20	24	0				
21	25	1				
22	25	0				
23	25	1				
24	23	1				
25	26	0				
26	23	0				
27	24	1				
28	25	0				
29	25	0				
30	23	1	✓			
		9				

1.28611 1.74658

DC Control C

ART May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC Control D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.486	29	JAB
2	25	0				
3	24	0				
4	25	0				
5	25	0				
6	26	0				
7	25	0				
8	24	0				
9	24	0				
10	25	0				
11	25	0				
12	24	1				
13	26	0				
14	25	0				
15	25	0				
16	26	0				
17	25	0				
18	25	0				
19	26	0				
20	25	0				
21	25	0				
22	25	0				
23	23	0				
24	25	1				
25	25	0				
26	27	0				
27	25	0				
28	25	0				
29	25	0				
30						

1.28296 1.74531

2

DC Control D

LRT May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 5 A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.179	27	JAB
2	24	1				
3	26	0				
4	24	1				
5	24	0				
6	25	0				
7	24	0				
8	25	0				
9	26	0				
10	24	0				
11	24	1				
12	24	0				
13	25	0				
14	23	0				
15	27	1				
16	23	0				
17	25	0				
18	24	1				
19	25	0				
20	24	0				
21	23	1				
22	24	0				
23	25	0				
24	24	1				
25	24	1				
26	24	0				
27	25	1				
28						
29						
30						

9

1.29354 1.70815

DC 5A

RBT
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 5 B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighted	Initials
1	25	1	JAB	2.365	28	JAB
2	24	0				
3	25	0				
4	25	0				
5	25	0				
6	26	0				
7	28	0				
8	25	0				
9	25	0				
10	25	1				
11	25	0				
12	25	0				
13	25	0				
14	25	0				
15	25	0				
16	25	1				
17	24	0				
18	24	0				
19	26	0				
20	25	1				
21	25	0				
22	25	0				
23	24	0				
24	25	0				
25	25	0				
26	25	0				
27	25	1				
28	25	1	↓			
29						
30						

1.29249 1.73084

6

DC 5 B

KRT May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 5 C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.487	30	JAB
2	18[A]	3				
3	26	0				
4	25					
5	25			1.28895 1.77185		
6	25					
7	26					
8	26					
9	25					
10	24					
11	24					
12	24					
13	24	↓				
14	25	1				
15	23	0				
16	23	1				
17	23	1				
18	24	0				
19	23	0				
20	24	0				
21	25	1				
22	24	0				
23	26	0				
24	23	1				
25	26	0				
26	24	0				
27	24	0				
28	23	0				
29	25	0				
30	24	0	↓			

DC 5 C

A cranial, facial, skeletal

ART
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 5 D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	1	JAB	2.605	30	JAB
2	26	0				
3	25	1				
4	24	0				
5	25	0				
6	26	0				
7	25	0		1.29279 1.78564		
8	24	0				
9	25	0				
10	25	1				
11	25	0				
12	25	0				
13	25	0				
14	25	0				
15	25	0				
16	24	0				
17	26	1				
18	25	0				
19	26	1				
20	18[a]	1				
21	25	1				
22	24	0				
23	25	0				
24	26	1				
25	25	1				
26	25	0				
27	25	0				
28	25	0				
29	24	1				
30	27	0	✓			

a - no tail fin

DC 5 D

ART
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 15 A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	1	JAB	2.242	28	JAB
2	24	0				
3	25	1				
4	24					
5	24					
6	25					
7	25			1.29140	1.74688	
8	22	1				
9	25	1				
10	24	0				
11	24	0				
12	24	1				
13	26	0				
14	24	0				
15	24	1				
16	24	0				
17	24	1				
18	25	0				
19	24	0				
20	24	1				
21	25	0				
22	26	1				
23	24					
24	24	1				
25	23	1				
26	23	1				
27	24	0				
28	25	0				
29						
30						

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DC 15 A

KRT May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 15 B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Net Organism Weight (g)	No. weighed	Initials
1	25	1	JAB	2.479	30	JAB
2	25	0				
3	24	0				
4	23	0				
5	25	1				
6	24	1				
7	25	0				
8	25	0				
9	24	1				
10	24	0				
11	24	0				
12	25	0				
13	26	0				
14	25	1				
15	25	0				
16	25	0				
17	25	1				
18	25	0				
19	24	0				
20	26	0				
21	25	0				
22	25	0				
23	25	1				
24	25	0				
25	25	0				
26	24	0				
27	25	0				
28	25	0				
29	25	0				
30	25	1				

1.29259 1.77286

DC 15 B

ART
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 15 C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.340	29	JAB
2	24	0				
3	24	0				
4	24	1				
5	25	0				
6	23	0				
7	24	1				
8	24	1		1.29535 1.78339		
9	23	0				
10	22	1				
11	25	0				
12	24	1				
13	23	0				
14	24	1				
15	24	1				
16	23	1				
17	24	1				
18	23	2				
19	23	1				
20	23	0				
21	23	0				
22	24	0				
23	23	2				
24	23	0				
25	24	0				
26	23	1				
27	23	0				
28	23	0	↓			
29	24	0				
30						

DC 15 C

ART May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 15 D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighted	Initials
1	23	1	JAB	2.171	27	JAB
2	24	0				
3	25	0				
4	24	1				
5	25	1				
6	24	0				
7	25	0				
8	25	0				
9	24	1				
10	23	0				
11	24	1				
12	23	0				
13	24	0				
14	25	0				
15	25	1				
16	24	1				
17	25	0				
18	24	0				
19	26	1				
20	24	0				
21	23	0				
22	23	1				
23	25	0				
24	24	0				
25	23	1				
26	25	0				
27	23	1				
28						
29						
30						

1.28966 1.69896

DC 15D

IRT
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 45 A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	23	1	JAB	2.115	27	JAB
2	25	0				
3	23	1				
4	24	0				
5	22	1				
6	23	0				
7	25	0				
8	23	1		1.29402	1.72622	
9	24	0				
10	22	1				
11	23	1				
12	22	1				
13	25	0				
14	24	0				
15	24	0				
16	25	0				
17	22	0				
18	24	1				
19	23	1				
20	21	1				
21	23	0				
22	24	0				
23	23	0				
24	23	0				
25	24	1				
26	23	0				
27	25	0	↓			
28						
29						
30						

11

DC 45 A

ART
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 45 B

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighted	Initials
1	23	1	JAB	2.316	28	JAB
2	22	1				
3	23	0				
4	24	0				
5	24	1				
6	22	2				
7	24	1				
8	23	0				
9	22	1				
10	24	1				
11	24	1				
12	24	2				
13	22	0				
14	24	0				
15	23	0				
16	24	1				
17	22	1				
18	23	0				
19	23	1				
20	22	0				
21	24	0				
22	24	0				
23	22	1				
24	25	0				
25	22	2				
26	24	0				
27	23	1				
28	23	0	✓			
29						
30						

1.29729 1.75308

DC 45 B

ART
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 45 C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	23	0	JAB	2.249	29	JAB
2	24	0				
3	24	1				
4	25	0				
5	24	0				
6	24	0				
7	23	1				
8	25	0				
9	25	1				
10	23	0				
11	24	1				
12	25	0				
13	25	0				
14	21	2				
15	22	1				
16	23	0				
17	24	0				
18	22	2				
19	25	0				
20	24	0				
21	23	0				
22	24	0				
23	25	1				
24	23	1				
25	22	1				
26	25	1				
27	25	0				
28	24	1				
29	25	0	✓			
30						

1.29132 1.74321

DC 45 C

ART
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 45 D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	23	1	JAB	2.332	30	JAB
2	25	0				
3	24	1				
4	23	1				
5	25	0				
6	23	1				
7	24	2		1.29095	1.76325	
8	23	0				
9	23	1				
10	23	0				
11		1				
12	~~22~~ 22	0				
13	23	1				
14	23	1				
15	22	1				
16	24	1				
17	24	0				
18	22	0				
19	22	1				
20	23	1				
21	23	0				
22	24	0				
23	22	1				
24	23	2				
25	25	0				
26	23	0				
27	23	1				
28	22	1				
29	23	1				
30	22	2	J			

DC 45 D

ERT
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 135 A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	22	2	JAB	1.959	27	JAB
2	21	0				
3	22	1				
4	23	0				
5	22	2				
6	22	1				
7	23	1				
8	20	0				
9	21	1		1.29451	1.71848	
10	23	1				
11	22	2				
12	23	0				
13	21	1				
14	22	0				
15	21	1				
16	22	1				
17	21	1				
18	23	0				
19	22	0				
20	22	1				
21	24	1				
22	23	0				
23	20	1				
24	23	0				
25	22	1				
26	21	1				
27	23	1	↓			
28						
29						
30						

18

DC 135 A

RBT
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 135 B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	23	1	JAB	1.802	26	JAB
2	24	1				
3	19	1				
4	20	2				
5	21	1				
6	23	1				
7	22	1		1.29710	1.68942	
8	21	1				
9	22	1				
10	21	2				
11	23	1				
12	20A	2				
13	22	1				
14	21	1				
15	21	1				
16	23	1				
17	18	1				
18	22	1				
19	22	2				
20	21	1				
21	20	1				
22	20	2				
23	21	1		DC 135 B		
24	21	Fem				
25	22	2				
26	22	0				
27						
28						
29						
30						

A Dead

25

ART May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 135 C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Dry Organism Weight (g)	No. weighed	Initials
1	21	1	JAB	1.860	26	JAB
2	24	1				
3	22	1				
4	23	0				
5	19	3				
6	23	2				
7	23	0				
8	24	0		1.29324	1.70723	
9	23	0				
10	23	1				
11	22	1				
12	23	1				
13	23	0				
14	22	1				
15	21	2				
16	22	0				
17	21	1				
18	21	2				
19	22	2				
20	22	1				
21	22	0				
22	23	1				
23	21	1				
24	22	0				
25	22	1			DC135C	
26	22	1				
27						
28						
29						
30						

18

ART
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 135 D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	23	1	JAB	20.75	28	JAB
2	22	1				
3	21	0				
4	22	1				
5	23	1				
6	21	1				
7	23	0				
8	23	0				
9	21	1				
10	21	1				
11	21	1				
12	22	1				
13	22	1				
14	23	1				
15	24	0				
16	20	1				
17	24	0				
18	20	1				
19	21	1				
20	20	2				
21	24	1				
22	24	0				
23	23	1				
24	23	1				
25	23	1				
26	20	1				
27	21	0				
28	22	1				
29						
30						

21

1.29808 1.73786

DC 135D

ART
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 405A

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	21	2	JAB	0.074	1	JAB
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

1.29769 1.31406

ART May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 405 B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	22	1	JAB	0.160	2	JAB
2	23	1	↓			
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

1.29711 1.32887

DC 405 B

ART
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 405 C

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	22	1	JAB	0.209	3	JAB
2	19	2	↓			
3	20	1	↓			
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

1.29088 1.33658

KRT
May 11/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: DC 405 D

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	23	1	JAB	0.162	2	JAB
2	21	2	↓			
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

1.29623 1.32917

RBT May 11/11

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: Dechlor
Work Order #: n/a

Start Date & Time: May 26/10
Stop Date: July 5/10
Test Species: *Oncorhynchus m*

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		1	2	3	4	5	6	7	8	9	10	11	
Control	1		0			0		0		0			0
	2		0			1		0		0			1
	3		0			JAB 0		0		0			1
	4		0			0		0		0			0
5	1		0			1		0		0			1
	2		0			0		1		0			1
	3		0			0		0		0			0
	4		0			0		0		0			0
15	1		0			0		0		0			0
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0 JAB		0		0			1
45	1		0			0		0		0			0
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0		0		0			0
135	1		0			0		0		2			2
	2		0			2		0		0			2
	3		0			1		0		0			1
	4		0			0		0		0			0
405	1		0			2	2	2		0			4
	2		0			2		1		0			3
	3		0		3	3		0		0			3
	4		0			3		0		0			3
	1												
	2												
	3												
	4												
	1												
	2												
	3												
	4												
Tech Initials			JAB			JAB		JAB		JAB			

Comments: _____

Reviewed by: _____ **Date reviewed:** May 11 2011

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: Dechlor
Work Order #: n/a
Start Date & Time: May 26/10
Stop Date: July 5/10
Test Species: *Oncorhynchus m*

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		12	13	14	15	16	17	18	19	20	21	22	
Control	1	0		0		0			0		0		0
	2	0		0		0			0		0		1
	3	0	0	0		0			0		0		1
	4	0	0	0		0			1		0		1
5	1	0		0		0			0		0		1
	2	1		0		0			0		0		2
	3	0		0		0			0		0		0
	4	0		0		0			0		0		0
15	1	0		0		0			0		0		0
	2	0		0		0			0		0		0
	3	0		0		0			0		0		0
	4	0		0		0			0		0		1
45	1	0		0		0			0		0		0
	2	0		0		0			0		0		0
	3	0		0		0			0		0		0
	4	0		0		0			0		0		0
135	1	0		0		0			0		0		2
	2	0		0		0			0		0		2
	3	0		0		0			0		0		1
	4	0		0		0			0		0		0
405	1	1		0		0			0		0		5
	2	1		1[a]		0			0		0		5
	3	2		1		0			0		0		6
	4	1		0		0			0		0		4
	1												
	2												
	3					a – plaque							
	4												
	1												
	2												
	3												
	4												
Tech Initials		JAB		JAB		~			JAB		JAB		

Comments:

Reviewed by: A. Tang **Date reviewed:** May 11 2011

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: Dechlor
Work Order #: n/a

Start Date & Time: May 26/10
Stop Date: July 5/10
Test Species: O.mykiss

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		22	23	24	25	26	27	28	~~29~~ EmD	30	~~31~~	~~32~~	
Control	1		0			0		0	0	0			0
	2		0			0		0	0	2			3
	3		0			0		0	0	0			1
	4		0			1		0	0	0			2
5	1		0			0		0	1	1			3
	2		0			0		0	0	0			2
	3		0			0		0	0	0			0
	4		0			0		0	0	0			0
15	1		0			0		0	0	1			1
	2		0			0		0	0	0			0
	3		0			0		0	0	1			1
	4		0			0		0	0	1			2
45	1		0			1		0	0	0			1
	2		0			0		0	0	1/1[q]			2
	3		0			0		0	0	1[q]			1
	4		0			0		0	0	0			0
135	1		0			0		0	0	0			2
	2		1			2		0	0	0			5
	3		1			1[q]		0	0	0			3
	4		0			0		0	0	0			0
405	1		0			0		1[q]	0	0			6
	2		0			0		0	0	0			5
	3		0			0		0	1	0			7
	4		0			1[q]		0	0	0			5
	1												
	2												
	3												
	4												
	1												
	2												
	3												
	4												
Tech Initials			JAB			JAB		JAB	JAB	JAB			

Comments: q-alevin

Reviewed by: A. Teng
Date reviewed: May 11 2011

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: Dechlor
Work Order #: n/a
Start Date & Time: May 26/10
Stop Date: July 5/10
Test Species: *O.mykiss*

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		~~35~~ ~~36~~ 33	~~34~~	~~35~~	35 ~~36~~	37	37 ~~38~~	39	40	40 ~~41~~	42	43	
Control	1	0			0		0	0		0			0
	2	0			0								3
	3	0			0								1
	4	0			0								2
5	1	0			0								3
	2	0			0								2
	3	0			0								0
	4	0			0								0
15	1	1a			0								2
	2	0			0								0
	3	0			0								1
	4	0			0								2
45	1	1e			0								2
	2	0			0					↓			2
	3	0			0					1			2
	4	0			0					0			0
135	1	0			0					3			5
	2	0			0					2			7
	3	0			1					1			4
	4	0			0		↓			1			1
405	1	0			2		8			12			28
	2	0			4		8			8			25
	3	1			3		5			12			28
	4	0			5		8			11			29
	1												
	2												
	3												
	4												
	1												
	2												
	3												
	4												
Tech Initials		JAB			JAB		JAB			JAB			

Comments: e-embryo

Reviewed by: A. Teng
Date reviewed: May 11 2011

Rainbow Trout Embryo-Alevin-Fry Test Summary Sheet

Client: MABC

Start Date/Time: 26-May-10 @1600h

Work Order No.: n/a

Test Species: *Oncorhynchus mykiss*

Sample Information:

Sample ID: Nitrate-Synthetic Soft Water
Sample Date: —
Date Received: —
Sample Volume: —

Dilution Water:

Type: Synthetic Soft Water
Hardness (mg/L $CaCO_3$): 40-60
Alkalinity (mg/L $CaCO_3$): 30-40

Test Organism Information:

Batch No.: 052610
Source: Fraser Valley Trout Hatchery
Loading Density: 30 embryo in 2-L

SDS Reference Toxicant Results:

Reference Toxicant ID: RTE26
Stock Solution ID: 10505
Date Initiated: May 26/10
7-d EC50 (95% CL): 5.1 (4.8-5.3) mg/L SDS

Reference Toxicant Mean ± 2 SD: 5.2 (2.5-10.8) mg/L SDS
Reference Toxicant CV (%): 44

Test Results:

mg/L NO3-N	Survival	% Swimup (Initial)	Wet Weight	Length
NOEC	405	405	135	15
LOEC	>405	>405	405	45
EC25 (95% CL)	>405	>405		
EC50 (95% CL)	>405	>405		
IC25 (95% CL)			>405	>405
IC50 (95% CL)			>405	>405

Reviewed by: A. Tang

Date reviewed: May 16, 2011

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	03-8597-6109	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 12:27	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	20-7409-4106	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Soft Synthetic Water
Ending Date:	02 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	37d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	19-3040-9158	**Code:**	NO3-SW-Surv	**Client:**	BCMA
Sample Date:	26 May-10 12:00	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	26 May-10 12:00	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1.578E+09	200	Yes	Two-Point Interpolation

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC5	>405	N/A	N/A
EC10	>405	N/A	N/A
EC15	>405	N/A	N/A
EC20	>405	N/A	N/A
EC25	>405	N/A	N/A
EC40	>405	N/A	N/A
EC50	>405	N/A	N/A

Survival Rate Summary — **Calculated Variate(A/B)**

Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.8417	0.5667	0.9667	0.09465	0.1893	22.49%	0.0%	101	120
5		4	0.925	0.9	0.9333	0.008333	0.01667	1.8%	-9.9%	111	120
15		4	0.9417	0.9	0.9667	0.01596	0.03191	3.39%	-11.88%	113	120
45		4	0.9167	0.9	0.9333	0.009622	0.01924	2.1%	-8.91%	110	120
135		4	0.95	0.9	1	0.02152	0.04303	4.53%	-12.87%	114	120
405		4	0.9583	0.9333	1	0.01596	0.03191	3.33%	-13.86%	115	120

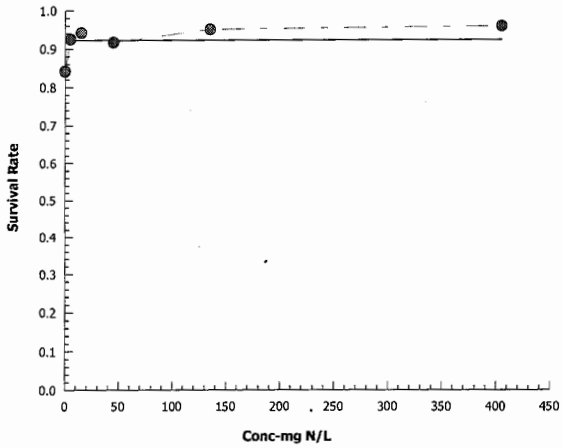
Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.5667	0.8667	0.9667	0.9667
5		0.9333	0.9333	0.9333	0.9
15		0.9667	0.9	0.9333	0.9667
45		0.9333	0.9333	0.9	0.9
135		0.9333	0.9667	1	0.9
405		0.9333	0.9333	1	0.9667

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	03-8597-6109	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 12:27	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



with outlier

CETIS Analytical Report

Salmonid Embryo Survival and Development Test

Nautilus Environmental

Analysis ID:	18-1242-1340	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:29	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	20-7409-4106	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Soft Synthetic Water
Ending Date:	02 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	37d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	19-3040-9158	**Code:**	NO3-SW-Surv	**Client:**	BCMA
Sample Date:	26 May-10 12:00	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	26 May-10 12:00	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	405	>405	N/A		10.9%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	-1.042	1.734	6	0.1474	>0.05	Non-Significant Effect
		15	-1.27	1.818	6	0.1545	>0.05	Non-Significant Effect
		45	-0.8639	1.845	6	0.1568	>0.05	Non-Significant Effect
		135	-1.293	1.859	6	0.158	>0.05	Non-Significant Effect
		405	-1.424	1.867	6	0.1587	>0.05	Non-Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		3.326	2.802	0.0026	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.07366852	0.0147337	5	1.02	0.4352	Non-Significant Effect
Error	0.2600865	0.01444925	18			
Total	0.333755	0.02918296	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	16.16	15.09	0.0064	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.879	0.884	0.0079	Non-normal Distribution

Survival Rate Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.8417	0.7697	0.9137	0.5667	0.9667	0.09465	0.1893	22.49%	0.0%
5		4	0.925	0.9187	0.9313	0.9	0.9333	0.008333	0.01667	1.8%	-9.9%
15		4	0.9417	0.9295	0.9538	0.9	0.9667	0.01596	0.03191	3.39%	-11.88%
45		4	0.9167	0.9093	0.924	0.9	0.9333	0.009622	0.01924	2.1%	-8.91%
135		4	0.95	0.9336	0.9664	0.9	1	0.02152	0.04303	4.53%	-12.87%
405		4	0.9583	0.9462	0.9705	0.9333	1	0.01596	0.03191	3.33%	-13.86%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	4	1.206	1.11	1.302	0.8523	1.387	0.1261	0.2522	20.92%	0.0%
5		4	1.294	1.283	1.306	1.249	1.31	0.01515	0.0303	2.34%	-7.35%
15		4	1.333	1.308	1.359	1.249	1.387	0.0335	0.067	5.03%	-10.56%
45		4	1.279	1.266	1.293	1.249	1.31	0.01749	0.03498	2.73%	-6.09%
135		4	1.356	1.318	1.394	1.249	1.479	0.04982	0.09964	7.35%	-12.47%
405		4	1.371	1.341	1.402	1.31	1.479	0.04035	0.0807	5.88%	-13.73%

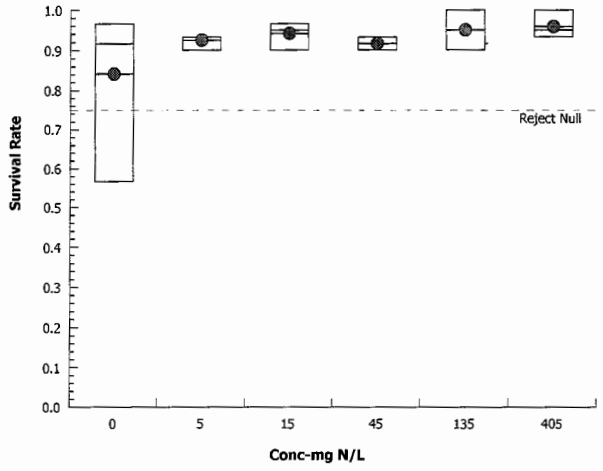
Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

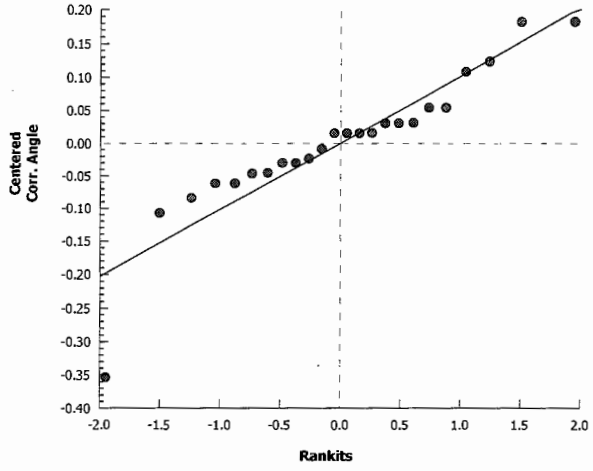
Analysis ID:	18-1242-1340	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:29	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.5667	0.8667	0.9667	0.9667
5		0.9333	0.9333	0.9333	0.9
15		0.9667	0.9	0.9333	0.9667
45		0.9333	0.9333	0.9	0.9
135		0.9333	0.9667	1	0.9
405		0.9333	0.9333	1	0.9667

Graphics





Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	10-7748-9221	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:29	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	20-7409-4106	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Soft Synthetic Water
Ending Date:	02 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	37d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	19-3040-9158	**Code:**	NO3-SW-Surv	**Client:**	BCMA
Sample Date:	26 May-10 12:00	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	26 May-10 12:00	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	405	>405	N/A		5.67%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	0.5179	1.74	5	0.09847	>0.05	Non-Significant Effect
		15	0.1752	1.824	5	0.1032	>0.05	Non-Significant Effect
		45	0.7855	1.852	5	0.1048	>0.05	Non-Significant Effect
		135	0.1404	1.866	5	0.1056	>0.05	Non-Significant Effect
		405	-0.05618	1.874	5	0.1061	>0.05	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.02484118	0.004968236	5	0.905	0.5005	Non-Significant Effect
Error	0.0933295	0.005489971	17			
Total	0.1181707	0.01045821	22			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	5.795	15.09	0.3267	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9766	0.88	0.8410	Normal Distribution

Survival Rate Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	3	0.9333	0.9114	0.9553	0.8667	0.9667	0.03333	0.05773	6.19%	0.0%
5		4	0.925	0.9187	0.9313	0.9	0.9333	0.008333	0.01667	1.8%	0.89%
15		4	0.9417	0.9295	0.9538	0.9	0.9667	0.01596	0.03191	3.39%	-0.89%
45		4	0.9167	0.9093	0.924	0.9	0.9333	0.009622	0.01924	2.1%	1.79%
135		4	0.95	0.9336	0.9664	0.9	1	0.02152	0.04303	4.53%	-1.79%
405		4	0.9583	0.9462	0.9705	0.9333	1	0.01596	0.03191	3.33%	-2.68%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	3	1.324	1.282	1.366	1.197	1.387	0.0634	0.1098	8.3%	0.0%
5		4	1.294	1.283	1.306	1.249	1.31	0.01515	0.0303	2.34%	2.21%
15		4	1.333	1.308	1.359	1.249	1.387	0.0335	0.067	5.03%	-0.72%
45		4	1.279	1.266	1.293	1.249	1.31	0.01749	0.03498	2.73%	3.36%
135		4	1.356	1.318	1.394	1.249	1.479	0.04982	0.09964	7.35%	-2.46%
405		4	1.371	1.341	1.402	1.31	1.479	0.04035	0.0807	5.88%	-3.6%

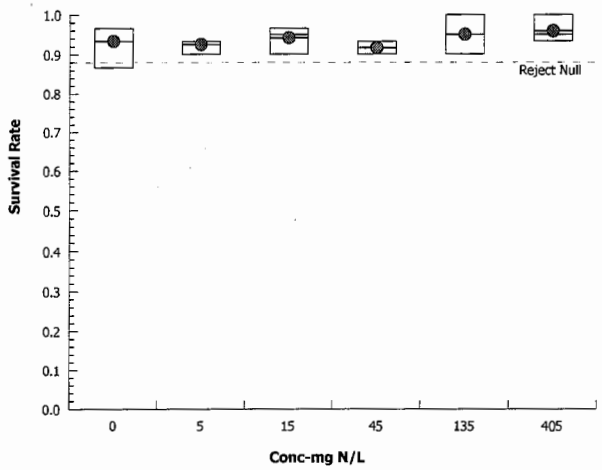
Salmonid Embryo Survival and Development Test **Nautilus Environmental**

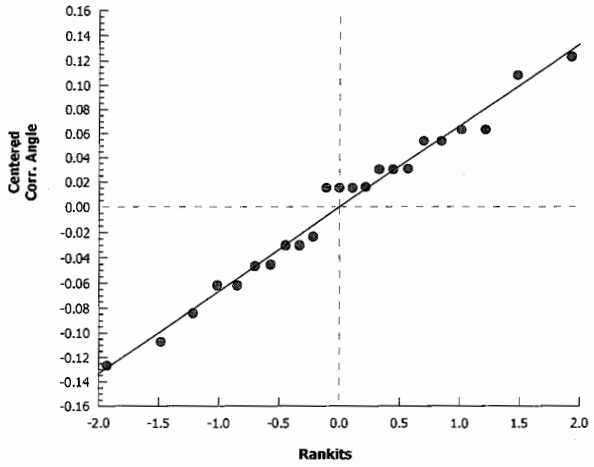
Analysis ID:	10-7748-9221	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:29	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	Outlier	0.8667	0.9667	0.9667
5		0.9333	0.9333	0.9333	0.9
15		0.9667	0.9	0.9333	0.9667
45		0.9333	0.9333	0.9	0.9
135		0.9333	0.9667	1	0.9
405		0.9333	0.9333	1	0.9667

Graphics





Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	08-3794-3739	**Endpoint:**	Proportion Normal	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	20-7409-4106	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Soft Synthetic Water
Ending Date:	02 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	37d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	19-3040-9158	**Code:**	NO3-SW-Surv	**Client:**	BCMA
Sample Date:	26 May-10 12:00	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	26 May-10 12:00	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	369871848	200	Yes	Two-Point Interpolation

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC5	>405	N/A	N/A
EC10	>405	N/A	N/A
EC15	>405	N/A	N/A
EC20	>405	N/A	N/A
EC25	>405	N/A	N/A
EC40	>405	N/A	N/A
EC50	>405	N/A	N/A

Proportion Normal Summary

			Calculated Variate(A/B)								
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.8333	0.5667	0.9667	0.09129	0.1826	21.91%	0.0%	100	120
5		4	0.9083	0.9	0.9333	0.008333	0.01667	1.84%	-9.0%	109	120
15		4	0.9	0.8667	0.9333	0.01361	0.02722	3.02%	-8.0%	108	120
45		4	0.875	0.8333	0.9333	0.025	0.05	5.71%	-5.0%	105	120
135		4	0.85	0.7333	0.9333	0.05	0.1	11.76%	-2.0%	102	120
405		4	0.9333	0.9333	0.9333	0	0	0.0%	-12.0%	112	120

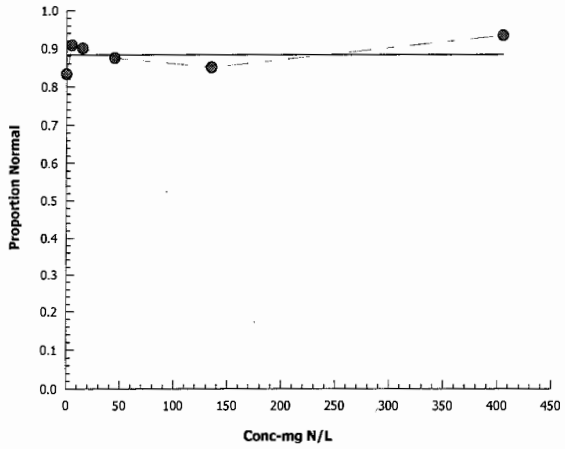
Proportion Normal Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.5667	0.8667	0.9667	0.9333
5		0.9	0.9	0.9333	0.9
15		0.9333	0.8667	0.9	0.9
45		0.8333	0.9333	0.9	0.8333
135		0.9333	0.7333	0.9333	0.8
405		0.9333	0.9333	0.9333	0.9333

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	08-3794-3739	**Endpoint:**	Proportion Normal	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:25	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

with outlier

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	00-1342-0248	**Endpoint:**	Proportion Normal (% swim-up of initial)	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:29	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	20-7409-4106	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Soft Synthetic Water
Ending Date:	02 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	37d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	19-3040-9158	**Code:**	NO3-SW-Surv	**Client:**	BCMA
Sample Date:	26 May-10 12:00	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	26 May-10 12:00	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	405	>405	N/A		11.9%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	-0.92	1.734	6	0.1464	>0.05	Non-Significant Effect
		15	-0.7659	1.818	6	0.1535	>0.05	Non-Significant Effect
		45	-0.335	1.845	6	0.1558	>0.05	Non-Significant Effect
		135	-0.02513	1.859	6	0.1569	>0.05	Non-Significant Effect
		405	-0.6062	1.867	6	0.1576	>0.05	Non-Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		3.165	2.802	0.0073	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.04635006	0.009270011	5	0.6504	0.6649	Non-Significant Effect
Error	0.2565544	0.01425302	18			
Total	0.3029045	0.02352303	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	3.165	4.248	0.0318	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.898	0.884	0.0195	Normal Distribution

Proportion Normal Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.8333	0.7639	0.9028	0.5667	0.9667	0.09129	0.1826	21.91%	0.0%
5		4	0.9083	0.902	0.9147	0.9	0.9333	0.008333	0.01667	1.84%	-9.0%
15		4	0.9	0.8896	0.9104	0.8667	0.9333	0.01361	0.02722	3.02%	-8.0%
45		4	0.875	0.856	0.894	0.8333	0.9333	0.025	0.05	5.71%	-5.0%
135		4	0.85	0.812	0.888	0.7333	0.9333	0.05	0.1	11.76%	-2.0%
405		4	0.9333	0.9333	0.9334	0.9333	0.9333	0	0	0.0%	-12.0%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	4	1.187	1.097	1.276	0.8523	1.387	0.1181	0.2361	19.9%	0.0%
5		4	1.264	1.253	1.276	1.249	1.31	0.01515	0.0303	2.4%	-6.55%
15		4	1.251	1.234	1.269	1.197	1.31	0.02302	0.04605	3.68%	-5.45%
45		4	1.215	1.185	1.245	1.15	1.31	0.03926	0.07852	6.46%	-2.38%
135		4	1.189	1.134	1.243	1.028	1.31	0.07169	0.1434	12.06%	-0.18%
405		4	1.31	1.31	1.31	1.31	1.31	0	0	0.0%	-10.38%

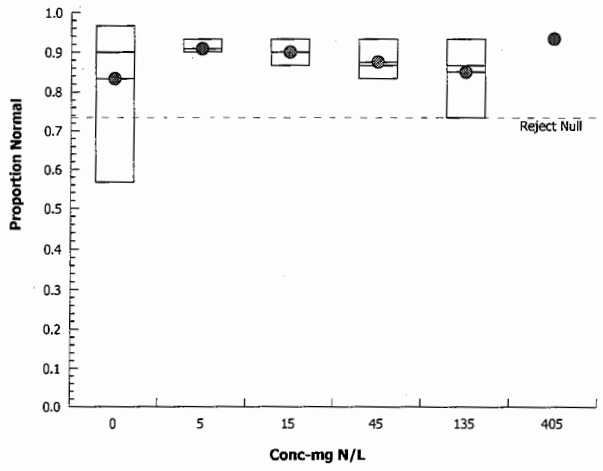
Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

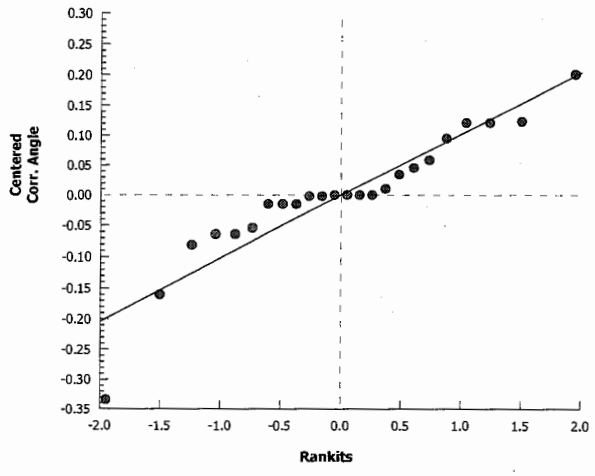
Analysis ID:	00-1342-0248	**Endpoint:**	Proportion Normal(% swim-up of initial)	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:29	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Proportion Normal Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.5667	0.8667	0.9667	0.9333
5		0.9	0.9	0.9333	0.9
15		0.9333	0.8667	0.9	0.9
45		0.8333	0.9333	0.9	0.8333
135		0.9333	0.7333	0.9333	0.8
405		0.9333	0.9333	0.9333	0.9333

Graphics





Salmonid Embryo Survival and Development Test **Nautilus Environmental**

Analysis ID:	20-6662-6552	**Endpoint:**	Proportion Normal (% swim-up of initial)	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:29	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	20-7409-4106	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Soft Synthetic Water
Ending Date:	02 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	37d 0h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	19-3040-9158	**Code:**	NO3-SW-Surv	**Client:**	BCMA
Sample Date:	26 May-10 12:00	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	26 May-10 12:00	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	405	>405	N/A		6.99%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	0.5555	1.74	5	0.1057	>0.05	Non-Significant Effect
		15	0.7696	1.824	5	0.1108	>0.05	Non-Significant Effect
		45	1.368	1.852	5	0.1125	>0.05	Non-Significant Effect
		135	1.799	1.866	5	0.1134	>0.05	Non-Significant Effect
		405	0.9916	1.874	5	0.1139	>0.05	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.041803	0.008360601	5	1.321	0.3019	Non-Significant Effect
Error	0.1075806	0.006328273	17			
Total	0.1493836	0.01468887	22			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	9.556	4.437	0.0002	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.9622	0.88	0.5092	Normal Distribution

Proportion Normal Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	3	0.9222	0.9029	0.9416	0.8667	0.9667	0.0294	0.05092	5.52%	0.0%
5		4	0.9083	0.902	0.9147	0.9	0.9333	0.008333	0.01667	1.84%	1.51%
15		4	0.9	0.8896	0.9104	0.8667	0.9333	0.01361	0.02722	3.02%	2.41%
45		4	0.875	0.856	0.894	0.8333	0.9333	0.025	0.05	5.71%	5.12%
135		4	0.85	0.812	0.888	0.7333	0.9333	0.05	0.1	11.76%	7.83%
405		4	0.9333	0.9333	0.9334	0.9333	0.9333	0	0	0.0%	-1.21%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	3	1.298	1.262	1.334	1.197	1.387	0.05521	0.09563	7.37%	0.0%
5		4	1.264	1.253	1.276	1.249	1.31	0.01515	0.0303	2.4%	2.6%
15		4	1.251	1.234	1.269	1.197	1.31	0.02302	0.04605	3.68%	3.6%
45		4	1.215	1.185	1.245	1.15	1.31	0.03926	0.07852	6.46%	6.41%
135		4	1.189	1.134	1.243	1.028	1.31	0.07169	0.1434	12.06%	8.42%
405		4	1.31	1.31	1.31	1.31	1.31	0	0	0.0%	-0.9%

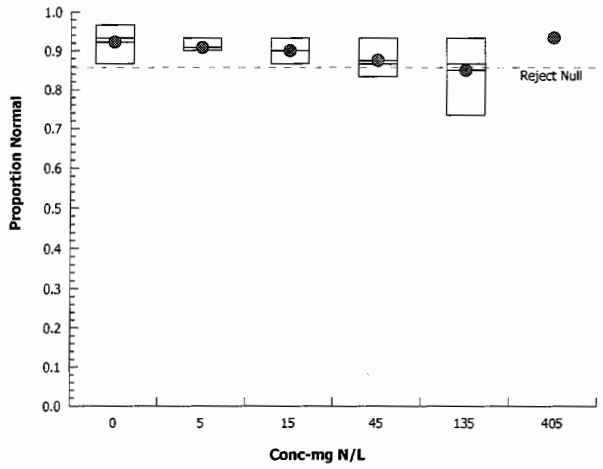
Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

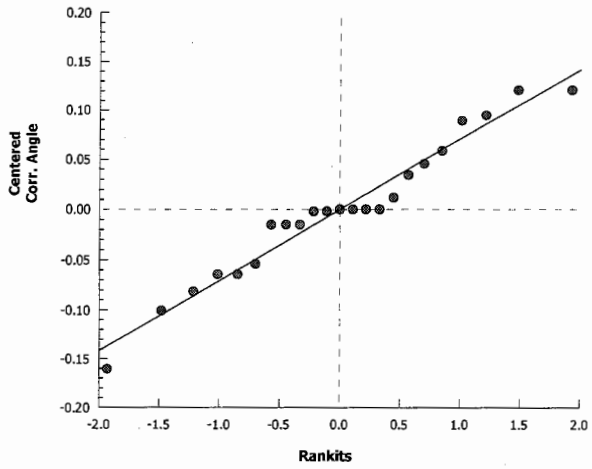
Analysis ID:	20-6662-6552	**Endpoint:**	Proportion Normal (% swim-up of initial)	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:29	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Proportion Normal Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	Outlier	0.8667	0.9667	0.9333
5		0.9	0.9	0.9333	0.9
15		0.9333	0.8667	0.9	0.9
45		0.8333	0.9333	0.9	0.8333
135		0.9333	0.7333	0.9333	0.8
405		0.9333	0.9333	0.9333	0.9333

Graphics





CETIS Analytical Report

EAF Test

~~Fathead Minnow 7-d Larval Survival and Growth Test~~

Nautilus Environmental

Analysis ID:	10-9202-1733	**Endpoint:**	~~Mean Dry Weight-mg~~ Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	13 Aug-10 11:05	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Dechlorinated Tap Water~~
Ending Date:	~~26 May-10~~ 12:00	**Species:**	~~Pimephales promelas~~ O. mykiss	**Brine:**	Soft Water
Duration:	~~28d N/A~~ 37d	**Source:**	Fraser Valley Trout Hatchery	**Age:**	

Sample ID:	18-5230-4816	**Code:**	NO3-SW-Le	**Client:**	BCMA
Sample Date:	20 Jul-10 11:08	**Material:**	NO3	**Project:**	
Receive Date:	20 Jul-10 11:08	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Non-Linear Regression Options

Model Function	X Transform	Y Transform	Weighting Function	PTBS Function
3P Log-Logistic EV [Y=A/(1+(X/D)^C)]	None	None	Normal [W=1]	Off [Y*=Y]

Regression Summary

Iters	Log LL	AICc	Adj R2	Optimize	F Stat	Critical	P-Value	Decision(5%)
10	4.2321	-1.201	0.6541	Yes	0.12603	3.1599	0.9435	Non-Significant Lack of Fit

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC10	588.74	262.82	1097.5
IC15	1633.2	361.67	4489
IC20	3521.1	381.53	13692
IC25	6641	365.15	36058
IC40	30631	376.71	580840
IC50	74910	678.33	8272500

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(5%)
A	26.292	0.25483	25.762	26.822	103.17	<0.0001	Significant Parameter
C	0.4534	0.14425	0.15342	0.75339	3.1432	0.0049	Significant Parameter
D	74910	123310	-181520	331340	0.60751	0.5500	Non-Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Model	13.44109	6.720547	2	22.744	<0.0001	Significant
Lack of Fit	0.1276537	0.0425512	3	0.12603	0.9435	Non-Significant
Pure Error	6.077499	0.3376388	18			
Residual	6.205153	0.2954834	21			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Variances	Bartlett Equality of Variance	3.0917	11.071	0.6858	Equal Variances
	Mod Levene Equality of Variance	0.50249	2.7729	0.7705	Equal Variances
Distribution	Shapiro-Wilk Normality	0.94496		0.2102	Normal Distribution

Mean Dry Weight-mg Summary

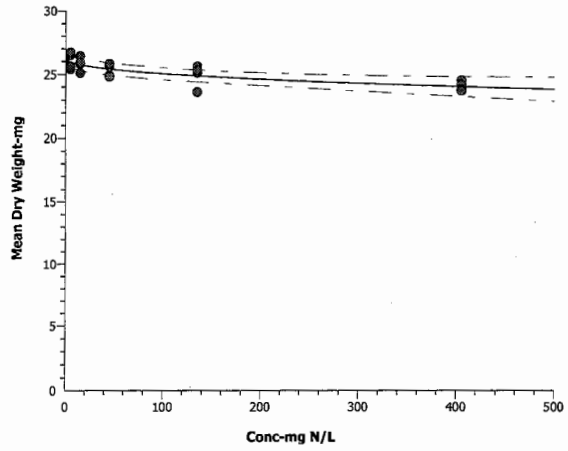
			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	26.25	25.7	26.5	0.069121	0.37859	1.44%	0.0%
5		4	26.05	25.4	26.7	0.11785	0.6455	2.48%	0.76%
15		4	25.8	25.1	26.4	0.097751	0.53541	2.08%	1.71%
45		4	25.275	24.8	25.8	0.091139	0.49919	1.98%	3.71%
135		4	24.9	23.6	25.6	0.16262	0.8907	3.58%	5.14%
405		4	24.05	23.7	24.5	0.067493	0.36968	1.54%	8.38%

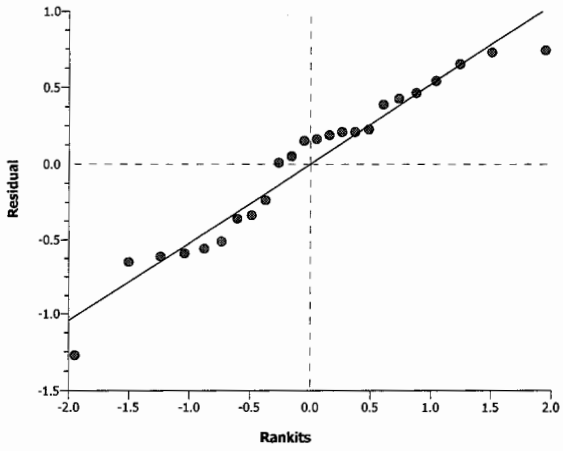
Analysis ID: 10-9202-1733 **Endpoint:** ~~Mean Dry Weight-mg~~ Length **CETIS Version:** CETISv1.7.0
Analyzed: 13 Aug-10 11:05 **Analysis:** Nonlinear Regression **Official Results:** Yes

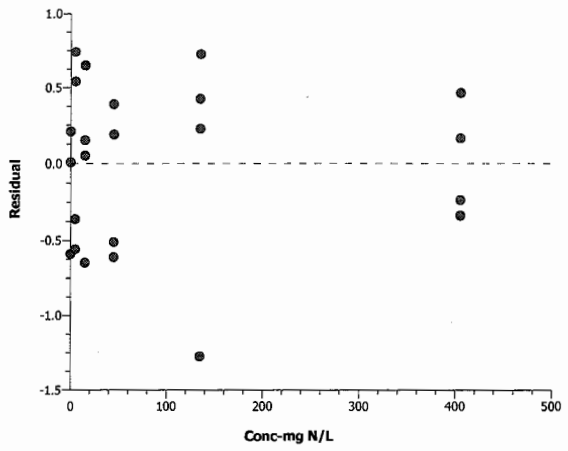
Mean Dry Weight-mg Detail

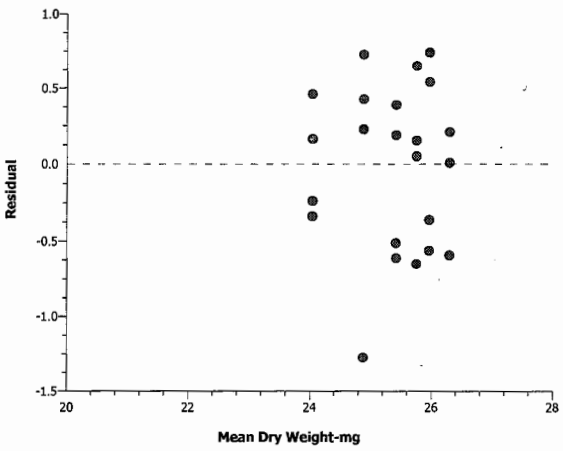
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	26.5	25.7	26.3	26.5
5		25.4	26.5	25.6	26.7
15		26.4	25.1	25.8	25.9
45		25.6	24.9	25.8	24.8
135		25.6	23.6	25.1	25.3
405		24.5	24.2	23.8	23.7

Graphics









CETIS Analytical Report

EAF Test

Test Code: 18-2125-2673/NO3-SW-Le

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ Nautilus Environmental

Analysis ID:	11-1915-1126	**Endpoint:**	~~Mean Dry Weight-mg~~ Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	28 Sep-10 10:43	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	~~Dechlorinated Tap Water~~
Ending Date:	~~28 May-10 12:00~~ JAB	**Species:**	~~Pimephales promelas~~ O.mykiss	**Brine:**	Soft Water
Duration:	37d ~~N/A~~ JAB July 2-10	**Source:**	Fraser Valley Trout Hatchery	**Age:**	

Sample ID:	18-5230-4816	**Code:**	NO3-SW-Le	**Client:**	BCMA
Sample Date:	20 Jul-10 11:08	**Material:**	NO3	**Project:**	
Receive Date:	20 Jul-10 11:08	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	15	45	25.981		2.92%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		5	0.48676	1.734	0.71246	>0.05	Non-Significant Effect
		15	1.0952	1.818	0.74697	>0.05	Non-Significant Effect
		45*	2.373	1.845	0.75807	<0.05	Significant Effect
		135*	3.2857	1.859	0.76382	<0.05	Significant Effect
		405*	5.3544	1.867	0.76711	<0.05	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	13.56875	2.71375	5	8.0374	0.0004	Significant Effect
Error	6.077499	0.3376388	18			
Total	19.64625	3.051389	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.0917	15.086	0.6858	Equal Variances
Distribution	Shapiro-Wilk Normality	0.94038		0.1664	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	26.25	26.106	26.394	25.7	26.5	0.070303	0.37859	1.44%	0.0%
5		4	26.05	25.804	26.296	25.4	26.7	0.11987	0.6455	2.48%	0.76%
15		4	25.8	25.596	26.004	25.1	26.4	0.099423	0.53541	2.08%	1.71%
45		4	25.275	25.085	25.465	24.8	25.8	0.092697	0.49919	1.98%	3.71%
135		4	24.9	24.561	25.239	23.6	25.6	0.1654	0.8907	3.58%	5.14%
405		4	24.05	23.909	24.191	23.7	24.5	0.068647	0.36968	1.54%	8.38%

Analyst: ARG QA: May 16/11

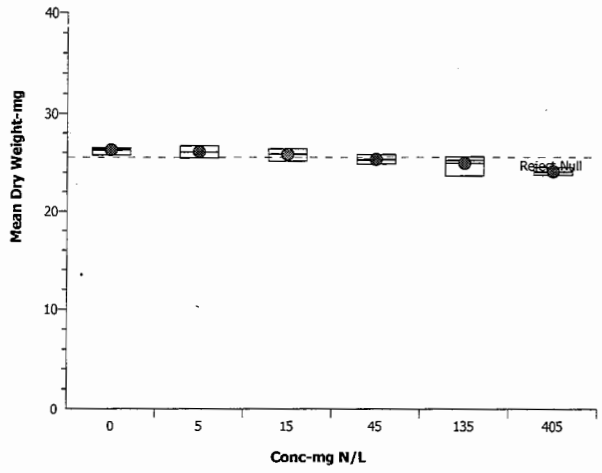
~~Fathead Minnow 7-d Larval Survival and Growth Test~~ Nautilus Environmental

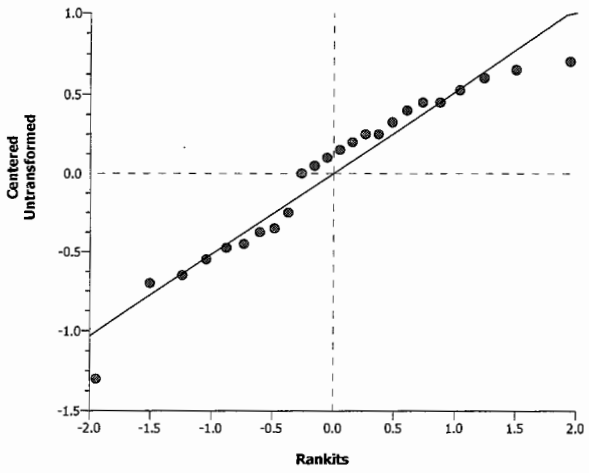
Analysis ID:	11-1915-1126	**Endpoint:**	~~Mean Dry Weight-mg~~ Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	28 Sep-10 10:43	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	26.5	25.7	26.3	26.5
5		25.4	26.5	25.6	26.7
15		26.4	25.1	25.8	25.9
45		25.6	24.9	25.8	24.8
135		25.6	23.6	25.1	25.3
405		24.5	24.2	23.8	23.7

Graphics





CETIS Analytical Report

EAF Test

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ Wet

Nautilus Environmental

Analysis ID:	10-6370-8153	**Endpoint:**	~~Mean Dry~~ Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:36	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ 37d	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	~~Dechlorinated Tap~~ Water
Ending Date:	~~02~~ 03 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	Soft
Duration:	~~40d 0h~~ 37d	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	18-9005-5018	**Code:**	NO3-SW-WW	**Client:**	BCMA
Sample Date:	20 Jul-10 09:57	**Material:**	NO3	**Project:**	
Receive Date:	20 Jul-10 09:57	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Non-Linear Regression Options

Model Function	X Transform	Y Transform	Weighting Function	PTBS Function
3P Log-Logistic EV [Y=A/(1+(X/D)^C)]	None	None	Normal [W=1]	Off [Y*=Y]

Regression Summary

Iters	Log LL	AICc	BIC	Adj R2	Optimize	F Stat	Critical	P-Value	Decision(α:5%)
18	-47.36	101.9	104.2	0.6891	Yes	0.8481	3.16	0.4855	Non-Significant Lack of Fit

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC10	175.8	101.6	259.1
IC15	289	206	381.2
IC20	420.1	289.4	571.7
IC25	572.3	340.8	867.7
IC40	1205	435.3	2812
IC50	1863	519.8	6675

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(α:5%)
A	101.1	1.65	97.69	104.6	61.29	<0.0001	Significant Parameter
C	0.9309	0.3077	0.291	1.571	3.026	0.0064	Significant Parameter
D	1863	991.8	-199.9	3925	1.878	0.0743	Non-Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Model	1152.6	1152.6	1	52.98	<0.0001	Significant
Lack of Fit	56.5859	18.86197	3	0.8481	0.4855	Non-Significant
Pure Error	400.3199	22.24	18			
Residual	456.9058	21.75742	21			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value	Grubbs Extreme Value	2.092	2.802	0.6988	No Outliers Detected
Variances	Bartlett Equality of Variance	4.925	11.07	0.4251	Equal Variances
	Mod Levene Equality of Variance	1.171	2.773	0.3612	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9883	0.9169	0.9907	Normal Distribution
	Anderson-Darling A2 Normality	0.171	2.492	0.9854	Normal Distribution

Mean Dry Weight-mg Summary

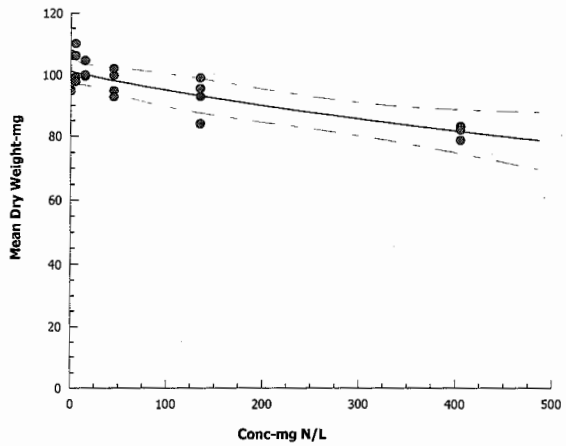
			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	98.64	94.62	106.6	2.776	5.552	5.63%	0.0%
5		4	103.3	97.71	110	2.905	5.809	5.63%	-4.67%
15		4	100.9	99.48	104.5	1.213	2.427	2.41%	-2.28%
45		4	97.26	92.7	101.9	2.135	4.27	4.39%	1.4%
135		4	92.72	83.93	98.82	3.185	6.369	6.87%	6.0%
405		4	81.61	78.64	83.11	1.022	2.045	2.51%	17.26%

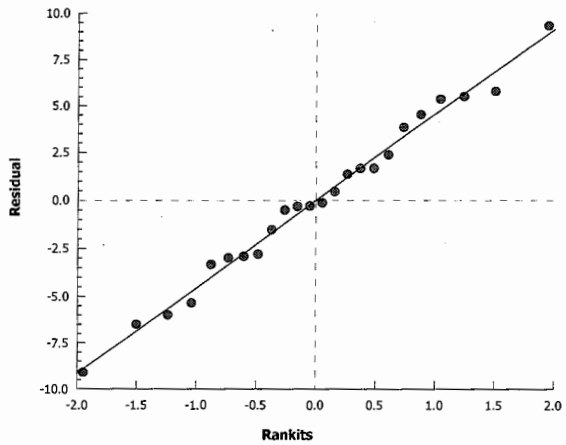
Analysis ID: 10-6370-8153 **Endpoint:** Mean ~~Dry~~ wet Weight-mg **CETIS Version:** CETISv1.8.0
Analyzed: 29 Apr-11 13:36 **Analysis:** Nonlinear Regression **Official Results:** Yes

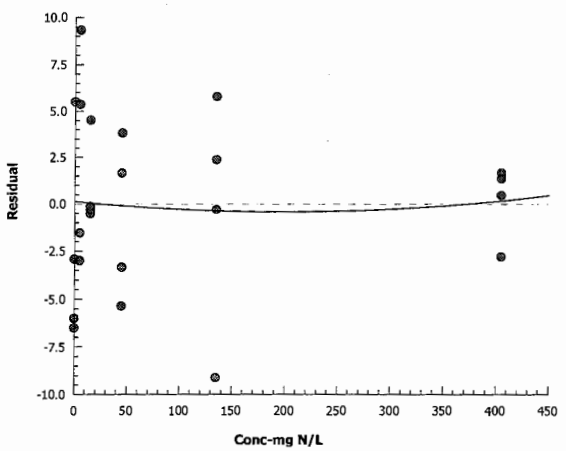
Mean Dry Weight-mg Detail

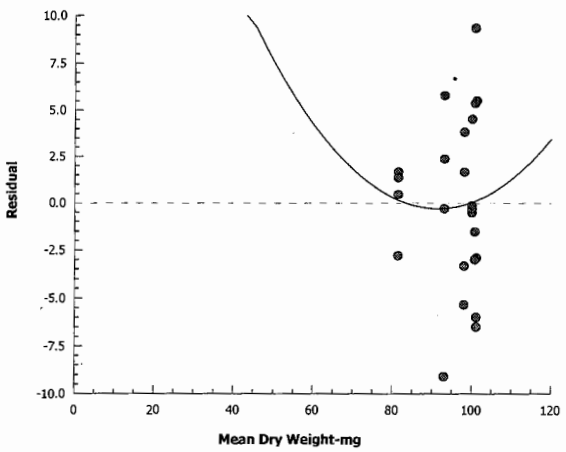
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	95.12	94.62	98.21	106.6
5		99.18	110	97.71	106.1
15		104.5	99.48	99.68	99.86
45		99.71	94.71	101.9	92.7
135		98.82	83.93	92.73	95.41
405		83.11	78.64	82.8	81.9

Graphics 3P Log-Logistic EV [Y=A/(1+(X/D)^C)]









~~Pathead Minnow 7-d Larval Survival and Growth Test~~ EAF Test Wet

Nautilus Environmental

Analysis ID:	18-2964-5038	**Endpoint:**	Mean ~~Dry~~ Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:36	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ 37d	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	~~Dechlorinated Tap~~ Water
Ending Date:	~~25~~ 27 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	Synthetic Soft
Duration:	~~40d 0h~~ 37d 3h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	

Sample ID:	18-9005-5018	**Code:**	NO3-SW-WW	**Client:**	BCMA
Sample Date:	20 Jul-10 09:57	**Material:**	NO3	**Project:**	
Receive Date:	20 Jul-10 09:57	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	135	405	233.8		6.31%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	-1.383	1.734	6	5.782	>0.05	Non-Significant Effect
		15	-0.6731	1.818	6	6.062	>0.05	Non-Significant Effect
		45	0.4153	1.845	6	6.152	>0.05	Non-Significant Effect
		135	1.774	1.859	6	6.199	>0.05	Non-Significant Effect
		405*	5.107	1.867	6	6.226	<0.05	Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		2.107	2.802	0.6668	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	1209.186	241.8373	5	10.87	<0.0001	Significant Effect
Error	400.3199	22.24	18			
Total	1609.506	264.0773	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	4.925	15.09	0.4251	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9878	0.884	0.9885	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	98.64	96.53	100.8	94.62	106.6	2.776	5.552	5.63%	0.0%
5		4	103.3	101	105.5	97.71	110	2.905	5.809	5.63%	-4.67%
15		4	100.9	99.96	101.8	99.48	104.5	1.213	2.427	2.41%	-2.28%
45		4	97.26	95.63	98.88	92.7	101.9	2.135	4.27	4.39%	1.4%
135		4	92.72	90.3	95.15	83.93	98.82	3.185	6.369	6.87%	6.0%
405		4	81.61	80.83	82.39	78.64	83.11	1.022	2.045	2.51%	17.26%

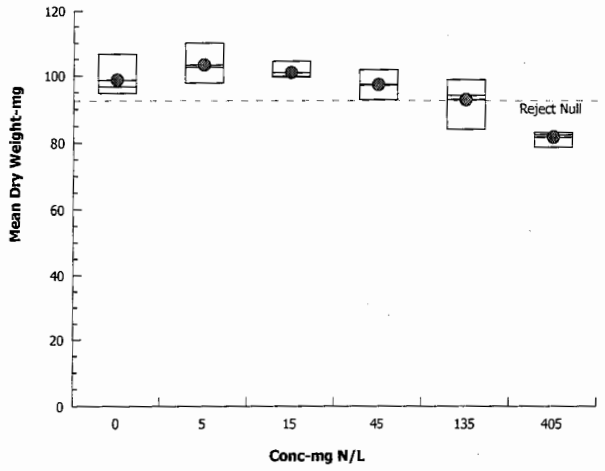
~~Fathead Minnow 7-d Larval Survival and Growth Test~~ Wet
Nautilus Environmental

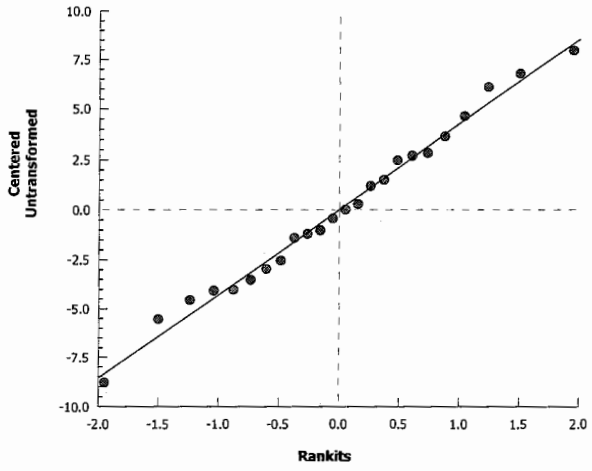
Analysis ID:	18-2964-5038	**Endpoint:**	Mean ~~Dry~~ Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	29 Apr-11 13:36	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	95.12	94.62	98.21	106.6
5		99.18	110	97.71	106.1
15		104.5	99.48	99.68	99.86
45		99.71	94.71	101.9	92.7
135		98.82	83.93	92.73	95.41
405		83.11	78.64	82.8	81.9

Graphics





Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW Control A

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	~~Dead~~ Total Wt Organism Weight (g)	No. weighed	Initials
1	27	0	JAB	1.617	17	JAB
2	26	0				
3	28	0				
4	27	0		1.29827	1.58817	
5	26	0				
6	26	0				
7	26	0				
8	26	0				
9	27	0				
10	27	0				
11	25	0				
12	27	0				
13	28	0				
14	27	0				
15	25	0				
16	26	0				
17	26	0				
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
		0				

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW Control B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	27	0	JAB	2.460	26	JAB
2	25	0				
3	25	0				
4	27	0				
5	26	0				
6	26	0				
7	27	0				
8	24	0				
9	27	0				
10	27	0				
11	25	0				
12	26	0				
13	25	0				
14	25	0				
15	27	0				
16	26	0				
17	26	0				
18	24	0				
19	23	0				
20	25	0				
21	26	0				
22	26	0				
23	25	0				
24	27	0				
25	25	0				
26	24	0				
27						
28						
29						
30						

0

1.29127 1.72417

ART May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW Control C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	27	0	JAB	2.848	29	JAB
2	27	0				
3	28	0				
4	27	0		1.29150	1.78064	
5	27	0				
6	26	0				
7	25	0				
8	24	0				
9	26	0				
10	26	0				
11	28	0				
12	27	0				
13	26	0				
14	26	0				
15	27	0				
16	26	0				
17	27	0				
18	27	0				
19	26	0				
20	26	0				
21	26	0				
22	25	0				
23	25	0				
24	27	0				
25	26	0				
26	26	0				
27	27	0				
28	26	0				
29	26	0				
30						

0

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW Control D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	3.092	29	JAB
2	27					
3	27					
4	27			1.29737	1.80278	
5	26					
6	27					
7	27					
8	26					
9	27					
10	26					
11	28					
12	26					
13	27					
14	26					
15	25					
16	26					
17	27					
18	26					
19	25					
20	27					
21	26					
22	26	1				
23	27	0				
24	26					
25	26					
26	27					
27	27					
28	27					
29	27					
30						

1

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 5 A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.777	28	JAB
2	26	0				
3	24	0				
4	25	0		1.29459	~~1.81456~~	JAB
5	27	0			1.78080	
6	25	0				
7	26	1				
8	26	0				
9	25					
10	26					
11	27					
12	25					
13	25					
14	26					
15	24					
16	25					
17	25					
18	25					
19	25					
20	25					
21	25					
22	26					
23	27					
24	26					
25	24					
26	25					
27	26					
28	24					
29						
30						

1

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 5B

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	1	JAB	3.0811	28	JAB
2	26	0				
3	26	0				
4	28			1.29524	1.80819	
5	26					
6	27					
7	27					
8	27					
9	28					
10	27					
11	27					
12	27					
13	27					
14	27					
15	27					
16	27					
17	26					
18	27					
19	27					
20	26					
21	27					
22	26					
23	26					
24	26					
25	26					
26	25					
27	25					
28	26					
29						
30						

1

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 5 C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	21 a	0	JAB	2.736	28	JAB
2	25					
3	26					
4	28					
5	26			1.29072	1.76250	
6	27					
7	25					
8	26					
9	27					
10	26					
11	27					
12	26					
13	26					
14	25					
15	26					
16	25					
17	25					
18	25					
19	25					
20	25					
21	26					
22	26					
23	25					
24	27					
25	25					
26	27					
27	25					
28	24	↓	↓			
29						
30						

a-skeletal

0

IRT
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 5 D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	27	0	JAB	2.864	27	JAB
2	25					
3	26					
4	26					
5	26					
6	26					
7	26					
8	28					
9	27					
10	27					
11	28					
12	27					
13	26					
14	27					
15	27					
16	27					
17	27					
18	28					
19	25					
20	27					
21	26					
22	28					
23	26					
24	28					
25	27					
26	27					
27	26					
28						
29						
30						

SKM
1.286658 1.752280

0

KRT
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 15 A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	27	1	JAB	3.031	29	JAB
2	28	0				
3	27					
4	26			1.28657	1.81456	
5	26					
6	26					
7	26					
8	26					
9	27					
10	26					
11	25					
12	27					
13	26					
14	26					
15	27					
16	25					
17	26					
18	27					
19	27					
20	27					
21	28					
22	26					
23	27					
24	27					
25	26					
26	26					
27	27					
28	26					
29	26	↓	↓			
30						

1

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 15 B

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	24	0	JAB	2,686	27	JAB
2	23	1				
3	24	0				
4	25					
5	25			1.29598	1.72973	
6	26					
7	25					
8	26					
9	24					
10	27					
11	26					
12	25					
13	24					
14	26					
15	24					
16	25					
17	26					
18	26					
19	25					
20	25					
21	25					
22	26					
23	26					
24	25					
25	24					
26	25					
27	25					
28						
29						
30						

1

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 15C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wt Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.0791	28	JAB
2	27	0				
3	26	0				
4	25	0				
5	26	0		1.29171	1.76763	
6	23	1				
7	26	0				
8	26					
9	25					
10	25					
11	26					
12	26					
13	25					
14	25					
15	26					
16	26					
17	26					
18	25					
19	26					
20	27					
21	26					
22	25					
23	26					
24	27					
25	26					
26	27					
27	25					
28	26					
29						
30						

1

KRT
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 15 D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	27	0	JAB	2.896	29	JAB
2	26					
3	27					
4	26			1.29069	1.81565	
5	26					
6	27					
7	26					
8	26					
9	29					
10	27					
11	27					
12	27					
13	26					
14	28					
15	25					
16	25					
17	13A	1				
18	29	1				
19	27	0				
20	26					
21	26					
22	25					
23	26					
24	25					
25	27					
26	26					
27	27					
28	25					
29	25					
30						

2

A – skeletal deformity

KRT May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 45 A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.0792	28	JAB
2	25	1				
3	25	0				
4	26	0		1.29744	1.78744	
5	26	0				
6	25	0				
7	25	1				
8	25	1				
9	25	0				
10	27					
11	25					
12	26					
13	26					
14	26					
15	26					
16	25					
17	27					
18	25					
19	25					
20	26					
21	25					
22	27					
23	26					
24	26					
25	25					
26	25					
27	25					
28	25					
29						
30						

3

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 45 B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.652	28	JAB
2	26					
3	26					
4	24					
5	25			1.29366	1.75828	
6	25					
7	24					
8	26					
9	25					
10	25					
11	24					
12	25					
13	26					
14	25					
15	26					
16	24					
17	25					
18	25					
19	25					
20	25					
21	23					
22	24					
23	24					
24	24					
25	25					
26	25					
27	25					
28	25	↓	↓			
29						
30						

0

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 45 C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	27	0	JAB	2.7581	27	JAB
2	26					
3	26					
4	26					
5	27					
6	27					
7	26					
8	25					
9	27					
10	25					
11	26					
12	24					
13	25					
14	26					
15	26					
16	25					
17	26					
18	25					
19	27					
20	26					
21	25					
22	25					
23	25					
24	27					
25	26					
26	25					
27	26					
28	dead	3				
29						
30						

0

1.29474 1.79019

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID SW 45 SVM D

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.503	27	JAB
2	25					
3	26					
4	25			1.28803	1.74472	
5	24					
6	24	1				
7	20[A]	2				
8	24	0				
9	24					
10	26					
11	26					
12	25					
13	24					
14	26					
15	25					
16	25					
17	25					
18	26					
19	26					
20	26					
21	25					
22	25					
23	24					
24	25					
25	24					
26	24					
27	26					
28						
29						
30						

A. Cranial facial — 2

JRT May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW B5A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25 A	0	JAB	2.767	28	JAB
2	25					
3	25					
4	26					
5	26			1.28742	1.76653	
6	25					
7	26					
8	26					
9	25					
10	26					
11	26					
12	26					
13	26					
14	25					
15	27					
16	25					
17	26					
18	26					
19	27					
20	25					
21	25					
22	26					
23	25					
24	25					
25	25					
26	26					
27	26					
28	26	↓	↓			
29						
30						
	Skeletal	0				

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 135 B

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	24	1	JAB	2.434	29	JAB
2	24	1				
3	25	0				
4	24	1				
5	25	0		1.29168 1.77547		
6	22	0				
7	23	1				
8	21	1				
9	23	0				
10	25	0				
11	19	1				
12	23	0				
13	24	0				
14	24	0				
15	26	0				
16	23	0				
17	23	0				
18	24	0				
19	24	0				
20	24	0				
21	22	1				
22	23	0				
23	25	0				
24	23	~~0~~ 1 SKN				
25	25	0				
26	24	0				
27	23	0				
28	25	0				
29	24	0	↓			
30						

7

ART May 9/11

Nautilus Environmental

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 135 C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.782	30	JAB
2	25					
3	26					
4	25					
5	24					
6	25					
7	25					
8	23	1				
9	23	2				
10	23 A	0				
11	26					
12	26					
13	23					
14	25					
15	25					
16	25					
17	26					
18	25					
19	26					
20	25					
21	26					
22	26					
23	25					
24	25					
25	27					
26	26					
27	25					
28	25					
29	26					
30	25	2	✓			

Dry Weight

1.29902 1.83124

SW 135C

A skeletal deformity

RT
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 135 D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.576	27	JAB
2	24					
3	26					
4	26			1.29644	1.79083	
5	28					
6	26					
7	25					
8	26					
9	~~27~~ 22 vum	1				
10	25	0				
11	25 A					
12	25					
13	24					
14	26					
15	25					
16	26					
17	25					
18	25					
19	24					
20	27			SW 135 D		
21	25					
22	25	1				
23	25	1				
24	25	0				
25	26	0				
26	25	0				
27	26	0				
28						
29						
30						

A skeletal deformity; mouth/jaw deformity

3

ART
May 9/11

Nautilus Environmental

Nautilus Environmental

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 405A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.327	28	JAB
2	25					
3	25					
4	26					
5	25					
6	25					
7	25					
8	26					
9	26					
10	22					
11	23					
12	25					
13	24					
14	23					
15	23					
16	24					
17	23					
18	25					
19	23					
20	24					
21	25					
22	25					
23	24					
24	25					
25	25					
26	25					
27	25					
28	24					
29						
30						

1.29103 1.73603

SW 405A

0

*some fish curled up after clove oil

KRT
May 9/11

Nautilus Environmental

Nautilus Environmental

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 405 B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.202	28	JAB
2	23					
3	24					
4	25					
5	25			1.29222	1.73673	
6	24					
7	23					
8	23					
9	25					
10	24					
11	24					
12	23					
13	25					
14	25					
15	25					
16	22					
17	25					
18	25					
19	25					
20	23					
21	25			SW 405B		
22	25					
23	25					
24	23					
25	25					
26	23					
27	24					
28	25					
29						
30						
		0				

*some fish curled up after clove oil

IRT
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 405 C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.484	30	JAB
2	26					
3	25					
4	25					
5	25					
6	23					
7	23					
8	23					
9	24					
10	23	1				
11	25	0				
12	25					
13	23					
14	21	1				
15	25	0				
16	25					
17	24					
18	22					
19	24					
20	23					
21	24					
22	25					
23	24					
24	23					
25	21					
26	22					
27	24					
28	24					
29	24					
30	25					

SKM
1.29440 39 1.77016

SW405C

2

ART
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: SW 405 D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	24	0	JAB	2.375	29	JAB
2	24					
3	23					
4	24					
5	22					
6	22					
7	23					
8	22					
9	25					
10	25					
11	23					
12	23					
13	24					
14	21					
15	25					
16	25					
17	20	3				
18	24	0				
19	24					
20	23					
21	22					
22	26					
23	25					
24	25					
25	25					
26	23					
27	24					
28	26					
29	22					
30						

1.29440 1.76500

SW 405 D

1

KRT May 9/11

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: Control Soft Water
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: Control SW	Days													
	0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	13.5	13.5		13.5
DO (mg/L)	10.3	10.5		10.3	10.4	10.1		10.2		10.0	10.1	10.2		10.4
pH	7.4	7.7		7.5	7.6	7.7		7.8		7.5	7.8	7.5		7.2
Cond. (µS/cm)	172			172						172				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		~

Treatment: Control SW	Days													
	7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	13.5	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.4	10.1		10.0	10.3	10.2		10.2		9.9	9.9	9.8		9.8
pH	7.6	7.7		7.4	7.3	7.6		7.8		7.2	7.3	7.5		7.2
Cond. (µS/cm)	176			174						181				
Initials	~	SKM		SKM		~		~		SKM		JAB		SKM

Treatment: Control SW	Days													
	14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5 SKM	14.0	13.5		13.5
DO (mg/L)	10.0	10.0		10.2	10.2	10.3		10.2		9.9	10.1	10.4		9.9
pH	7.4	7.5		7.2	7.7	7.8		7.6		7.2	7.5	7.7		7.6
Cond. (µS/cm)	165			175						176				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: Control SW	Days													
	21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.0		9.9	10.1	10.2		10.3		10.1	10.0	10.3		10.2
pH	SW 7.6	7.4		7.5	7.6	7.5		7.5		7.4	7.4	7.4		7.3
Cond. (µS/cm)	173			176						174				
Initials	SKM	JAB		SKM		~		~		JAB		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control-1	Control-2		
Hardness*	46	56		
Alkalinity*	34	38		

* mg/L as CaCO3

Analysts: JAB, SKM, AWD

Reviewed by: ART

Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: Control SW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
Control SW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.3	10.2		10.2	10.2	10.3		~~10.2~~		10.2	10.1	10.3		10.1
pH	7.4	7.4		7.2	7.3	7.5		7.6		7.3	7.4	7.5		7.4
Cond. (µS/cm)	174			173						174				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
Control SW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5												
DO (mg/L)	10.1	10.2												
pH	7.6	7.7												
Cond. (µS/cm)	175													
Initials	JAB	JJ												

Treatment	Days													
	44	45		46		47		48		49		50		51
Control SW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
Control SW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM
Reviewed by: ART
Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 5mg N/L Soft Water
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 5 mg N/L SW	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	13.5	13.5		13.5
DO (mg/L)	10.4	10.5		10.3	10.4	10.2		10.2		10.0	10.0	10.2		10.4
pH	7.3	7.7		7.5	7.6	7.7		7.7		7.5	7.6	7.5		7.2
Cond. (µS/cm)	214			213						221				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		~

Treatment: 5 SW	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	13.5	13.5		13.5		13.5	14.0	13.5		13.5 JAB
DO (mg/L)	10.4	10.2		10.0	10.3	10.3		10.2		9.9	9.9	9.9		9.9
pH	7.5	7.7		7.3	7.5	7.6		7.8		7.3	7.3	7.5		7.4
Cond. (µS/cm)	222			219						226				
Initials	~	SKM		SKM		~		~		SKM		JAB		SKM

Treatment: 5 SW	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5 SKM	14.0	13.5		13.5
DO (mg/L)	10.1	10.1		10.2	10.2	10.3		10.2		10.0	9.9	10.4		9.9
pH	7.4	7.6		7.6	7.7	7.7		7.6		7.3	7.4	7.7		7.6
Cond. (µS/cm)	215			219						225				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: 5 SW	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.1		9.9	10.20 SKM	10.2		10.1		10.0	10.0	10.3		10.2
pH	7.60	7.5		7.5	7.6	7.5		7.4		7.4	7.4	7.3		7.3
Cond. (µS/cm)	225			220						220				
Initials	JAB	JAB		SKM		~		~		JAB		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: KRT

Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 5mg N/L SW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 5 mg/L SW	Days 29	30		31		32		33		34		35		36
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.3	10.1		10.3	10.2	10.3		10.2		10.3	10.1	10.4		10.2
pH	7.4	7.4		7.2	7.3	7.5		7.5		7.3	7.4	7.5		7.4
Cond. (µS/cm)	219			219						223				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: 5 SW	Days 36	37		38		39		40		41		42		43
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5												
DO (mg/L)	10.1	10.2												
pH	7.6	7.7												
Cond. (µS/cm)	226													
Initials	JAB	JAB												

Treatment: 5 SW	Days 44	45		46		47		48		49		50		51
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment: 5 SW	Days 51	52		53		54		55		56		57		58
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: IRT

Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 15 mg N/L Soft Water
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 15 mg N/L SW	Days													
	0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	13.5	13.5		13.5
DO (mg/L)	10.4	10.5		10.2	10.4	10.1		10.2		9.9	10.0	10.2		10.4
pH	7.3	7.7		7.6	7.6	7.7		7.7		7.7	7.6	7.5		7.3
Cond. (µS/cm)	295			298						312				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		SKM

Treatment: 15 SW	Days													
	7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.0		13.5	13.5	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.4	10.0		9.9	10.3	10.3		10.3		10.0	10.0	9.9		9.9
pH	7.5	7.7		7.4	7.5	7.0		7.7		7.3	7.3	7.5		7.4
Cond. (µS/cm)	306			307						317				
Initials	SKM	SKM		SKM		~		~		SKM		JAB		SKM

Treatment: 15 SW	Days													
	14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.9	13.5		12.5	14.0	14.0		14.0		13.8 SKM	14.0	13.5		13.5
DO (mg/L)	10.1	10.1		10.3	10.2	10.3		10.2		10.0	10.1	10.4		9.9
pH	7.5	7.6		7.5	7.8	7.6		7.7		7.3	7.5	7.7		7.6
Cond. (µS/cm)	307			315						314				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: 15 SW	Days													
	21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.1		9.8	9.8 SKM	10.2		10.3		10.0	9.9	9.0		10.1
pH SKM	7.6	7.5		7.5	7.6 SKM	7.5		7.4		7.4	7.4	7.3		7.3
Cond. (µS/cm)	318			307						309				
Initials	JAB	JAB		SKM		~		~		JAB		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: KRT
Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 15 mg/L SW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 15 mg/L SW	Days													
	29	30		31		32		33		34		35		36
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.3	10.1		10.1	10.2	10.3		10.3		10.3	10.1	10.2		10.0
pH	7.4	7.4		7.2	7.3	7.4		7.5		7.3	7.4	7.5		7.4
Cond. (µS/cm)	306			311						320				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: 15 SW	Days													
	36	37		38		39		40		41		42		43
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5												
DO (mg/L)	10.1	10.3												
pH	7.6	7.7												
Cond. (µS/cm)	325													
Initials	JAB	JJ												

Treatment: 15 SW	Days													
	44	45		46		47		48		49		50		51
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment: 15 SW	Days													
	51	52		53		54		55		56		57		58
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: LRT

Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 45 mg N/L Soft Water
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 45 mg N/L SW	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	13.5	13.5		13.5
DO (mg/L)	10.4	10.5		10.3	10.4	10.2		10.2		9.9	10.0	10.2		10.3
pH	7.3	7.7		7.5	7.6	7.6		7.6		7.6	7.6	7.5		7.3
Cond. (µS/cm)	537			534						579				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		Q

Treatment: 45 SW	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	13.5	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.4	10.2		9.9	10.4	10.3		10.2		9.9	10.1	9.8		10.0
pH	7.5	7.7		7.4	7.4	7.5		7.6		7.3	7.4	7.5		7.4
Cond. (µS/cm)	547			547						584				
Initials	Q	SKM		SKM		~		~		SKM		JAB		SKM

Treatment: 45 SW	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.1		10.2	10.2	10.3		10.2		9.9	10.1	10.4		10.0
pH	7.5	7.6		7.5	7.5	7.6		7.6		7.3	7.5	7.6		7.6
Cond. (µS/cm)	586			587						577				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: 45 SW	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	9.9		9.8	10.2	10.3		10.1		9.9	10.1	10.3		10.0
pH	7.6	7.5		7.5	7.5	7.4		7.3		7.4	7.4	7.2		7.3
Cond. (µS/cm)	586			565						571				
Initials	JAB	JAB		SKM		~		~		JAB		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: ART

Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 45 mg/L SW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 45 mg/L SW	Days: 29	30		31		32		33		34		35		36
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.3	10.1		10.0	10.2	10.3		10.3		10.3	10.1	9.9		10.0
pH	7.3	7.4		7.2	7.2	7.3		7.4		7.3	7.4	7.5		7.4
Cond. (µS/cm)	577			574						585				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: 45 SW	Days: 36	37		38		39		40		41		42		43
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5												
DO (mg/L)	10.1	10.2												
pH	7.5	7.6												
Cond. (µS/cm)	621													
Initials	JAB	JT												

Treatment: 45 SW	Days: 44	45		46		47		48		49		50		51
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment: 45 SW	Days: 51	52		53		54		55		56		57		58
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: KBT
Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 135 mg N/L Soft Water
Work Order #: n/a

Start Date & Time: May 26/10 @1600 h
Stop Date & Time: July 2/10 @ 1000 h
Test Species: *Oncorhynchus mykiss*

Treatment: 135 mg N/L SW	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	13.5	13.5		13.5
DO (mg/L)	10.4	10.5		10.3	10.4	10.2		10.1		10.0	10.1	10.2		10.4
pH	7.3	7.6		7.5	7.5	7.6		7.5		7.5	7.6	7.5		7.3
Cond. (µS/cm)	1236			1222						1304				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		SKM

Treatment: 135 SW	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	13.5	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.4	10.1		9.9	10.3	10.2		10.3		9.9	10.0	9.9		10.0
pH	7.5	7.6		7.3	7.4	7.5		7.6		7.3	7.4	7.5		7.4
Cond. (µS/cm)	1245			1251						1333				
Initials	SKM	SKM		SKM		~		~		SKM		JAB		SKM

Treatment: 135 SW	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	9.9		10.3	10.2	10.3		10.3		9.9	10.1	10.4		10.1
pH	7.5	7.5		7.5	7.6	7.6		7.5		7.3	7.4	7.6		7.6
Cond. (µS/cm)	1376			1360						~~1350~~ 1394 SKM				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: 135 SW	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	9.9		9.9	10.2	10.2		10.2		10.1	10.1	10.2		10.1
pH	7.6	7.5		7.5	7.5	7.3		7.2		7.3	7.4	7.2		7.3
Cond. (µS/cm)	1324			1267						1307				
Initials	JAB	JAB		SKM		~				JAB		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: ART

Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 135mg/L SW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
135 mg/L SW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.2		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.3	10.2		10.3	10.2	10.3		10.2		10.3	10.1	9.7		10.0
pH	7.3	7.4		7.2	7.2	7.3		7.3		7.3	7.4	7.5		7.3
Cond. (µS/cm)	1319			1309						1306				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
135 SW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5												
DO (mg/L)	10.1	10.1												
pH	7.5	7.6												
Cond. (µS/cm)	1393													
Initials	JAB	JJ												

Treatment	Days													
	44	45		46		47		48		49		50		51
135 SW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
135 SW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AND, SKIM
Reviewed by: ART
Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 405 mg N/L Soft Water
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 405 mg N/L SW	Days													
	0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.0		13.5	13.5	13.5		13.5
DO (mg/L)	10.3	10.4		10.3	10.2	10.1		10.2		10.0	10.1	10.2		10.4
pH	7.2	7.5		7.4	7.5	7.6		7.5		7.5	7.5	7.5		7.2
Cond. (µS/cm)	3250			3260						3320				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		~

Treatment: 405 mg N/L SW	Days													
	7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	13.5	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.4	10.3		10.0	10.3	10.2		10.2		9.9	10.1	9.8		10.0
pH	7.4	7.5		7.3	7.4	7.5		7.4		7.2	7.4	7.5		7.4
Cond. (µS/cm)	3170			3280						3430				
Initials	~	SKM		SKM		~		~		SKM		JAB		SKM

Treatment: 405 SW	Days													
	14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.2		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.2		10.3	10.2	10.3		10.2		10.0	10.2	10.4		9.9
pH	7.4	7.5		7.4	7.5	7.5		7.5		7.3	7.4	7.6		7.5
Cond. (µS/cm)	3540			3660						3440				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: 405 SW	Days													
	21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.2		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.0		10.6	10.5	10.2		10.3		10.2	10.0	10.1		10.2
pH	7.6	7.4		7.4	7.4	7.2		7.1		7.3	7.3	7.2		7.2
Cond. (µS/cm)	SKM 3400			3350						3360				
Initials	JAB	JAB		SKM		~		~		JAB		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: ART

Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 405 mg/L SW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 405 mg/L SW	Days: 29	30		31		32		33		34		35		36
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.3		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.3	10.2		10.1	10.2	10.3		10.2		10.3	10.1	10.1		9.9
pH	7.3	7.3		7.2	7.2	7.3		7.2		7.3	7.3	7.5		7.3
Cond. (µS/cm)	3420			3400						3510				
Initials	JAB	JAB		JAB		–		~		JAB		JAB		JAB

Treatment: 405 SW	Days: 36	37		38		39		40		41		42		43
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5												
DO (mg/L)	10.1	10.1												
pH	7.5	7.6												
Cond. (µS/cm)	3620													
Initials	JAB	JJ												

Treatment: 405 SW	Days: 44	45		46		47		48		49		50		51
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment: 405 SW	Days: 51	52		53		54		55		56		57		58
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, SKM, AWD

Reviewed by: ART

Date reviewed: May 16, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: Soft Water
Work Order #: N/a

Start Date & Time: May 26/10 @ 1600h
Stop Date: July 2/10
Test Species: *Oncorhynchus m*

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		1	2	3	4	5	6	7	8	9	10	11	
Control	1		0			1		10		0			11
	2		0			1		0		0			1
	3		0			1		0		0			1
	4		0			0		0		0			0
5	1		0			1		0		0			1
	2		0			0		0		0			0
	3		0			1		0		0			1
	4		0			0		0		0			0
15	1		0			0		0		0			0
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0		0		0			0
45	1		0			0		1		0			1
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0		0		0			0
135	1		0			1		6		0			1
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			1		0		0			1
405	1		0			0		0		0			0
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0		0		0			0
	1												
	2												
	3												
	4												
	1												
	2												
	3												
	4												
Tech Initials			JKB			JKB		JKB		JKB			

Comments: _____

Reviewed by: L. Tong **Date reviewed:** May 9 2011

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: SW
Work Order #: n/a

Start Date & Time: May 26/10@1600h
Stop Date: July 2/10@1000h
Test Species: *Oncorhynchus m*

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		12	13	14	15 ~~15~~	16	17	18	19	20	21	22	
Control	1	0		0	0				0		0		1
	2	0		0	0				0		0		1
	3	0		0	0				0		0		1
	4	0		0	0				0		0		0
5	1	0		0	0				0		0		1
	2	0		0	0				0		0		0
	3	0		0	0				0		0		1
	4	0		0	0				0		0		0
15	1	0		0	0				0		0		0
	2	0		0	0				0		0		0
	3	0		1	0				0		0		1
	4	0		0	0				0		0		0
45	1	0		0	0				0		0		1
	2	0		0	0				0		0		0
	3	0		0	0				0	✓	1		1
	4	0		0	0				0		0		0
135	1	0		0	0				0		1		2
	2	0		0	0				0		0		0
	3	0		0	0				0		0		0
	4	0		0	0				0		0		1
405	1	0		0	0				1		0		1
	2	0		0	0				1		0		1
	3	0		0	0				0		0		0
	4	0		0	0				0		0		0
	1												
	2												
	3												
	4												
	1												
	2												
	3												
	4												
Tech Initials		JAB		JAB	~				JAB		JAB		

Comments: _____

Reviewed by: A. Tong **Date reviewed:** May 9 2011

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: Soft Water
Work Order #: n/a
Start Date & Time: May 26/10@1600h
Stop Date: July 2/10
Test Species: *O.mykiss*

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		22	23	24	25	26	27	28	29 UnF Emb	30	31	32	
Control	1		1			0		0	0	0			12
	2		0			0		1	1	1			4
	3		0			0		0	0	0			1
	4		0			0		0	1	0			1
5	1		0			0		0	0	0			1
	2		0			1		0	1	0			2
	3		0			1		0	0	1			3
	4		1			1		0	0	1			3
15	1		0			0		0	0	0			0
	2		1			1		0	JAB 1 0	0			2
	3		0			0		0	1	JAB 1 0			2
	4		0			0		0	1	JAB 1 1a			2
45	1		0			0		0	0	0			1
	2		0			1		0	0	0			1
	3		0			0		1a	JAB 1 0	0			2
	4		1			0		0	JAB 1 0	JAB 1 1			2
135	1		0			0		0	JAB 1 0	0			3
	2		0			1		1	0	0			2
	3		0			0		0	0	0			0
	4		0			0		0	0	JAB 1 0			1
405	1		0			0		0	JAB 1 0	0			1
	2		0			1a		0	0	0			2
	3		0			0		0	1	0			1
	4		0			0		1a	0	0			1
	1												
	2												
	3												
	4												
	1												
	2												
	3												
	4												
Tech Initials			JAB			JAB		JAB	JAB	JAB			

Comments: a-alevin

Reviewed by: A. Tang **Date reviewed:** May 9 2011

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: Soft Water
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date: July 2/10
Test Species: O.mykiss

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		~~38~~ 38	~~34~~	35	~~38~~ 35	37	~~38~~ 37	39	40	41	42	43	
Control	1	0			0		0						12
	2	0			0								4
	3	0			0								1
	4	0			0								1
5	1	0			0								1
	2	0			0								2
	3	0			0								3
	4	0			0								3
15	1	0			0								0
	2	0			0								2
	3	0			0								2
	4	0			0								2
45	1	0			0								1
	2	0			0		↓						1
	3	0			0		1						3
	4	0			0		0						2
135	1	0			0								3
	2	0			0								2
	3	0			0								0
	4	0			0								1
405	1	0			0								1
	2	0			0								2
	3	0			0								1
	4	0			0		↓						1
	1												
	2												
	3												
	4												
	1												
	2												
	3												
	4												
Tech Initials		JAB			JAB		JAB						

Comments: _____

Reviewed by: A. Tang **Date reviewed:** May 9 2011

Rainbow Trout Embryo-Alevin-Fry Test Summary Sheet

Client: MABC

Start Date/Time: 26-May-10 @1600h

Work Order No.: n/a

Test Species: *Oncorhynchus mykiss*

Sample Information:

Sample ID: Nitrate-Moderately Hard Water
Sample Date: —
Date Received: —
Sample Volume: —

Dilution Water:

Type: Synthetic Moderately Hard Water
Hardness (mg/L $CaCO_3$): 80-110
Alkalinity (mg/L $CaCO_3$): 60-70

Test Organism Information:

Batch No.: 052610
Source: Fraser Valley Trout Hatchery
Loading Density: 30 embryo in 2-L

SDS Reference Toxicant Results:

Reference Toxicant ID: RTE26
Stock Solution ID: 10505
Date Initiated: May 26/10
7-d EC50 (95% CL): 5.1 (4.8-5.3) mg/L SDS

Reference Toxicant Mean ± 2 SD: 5.2 (2.5-10.8) mg/L SDS
Reference Toxicant CV (%): 44

Test Results:

mg/L NO3-N	Survival	% Swimup (Initial)	Dry ~~Wet~~ Weight	Length
NOEC	405	45	45	45
LOEC	>405	135	135	135
EC25 (95% CL)	>405	69 (59-77)		
EC50 (95% CL)	>405	107 (86-134)		
IC25 (95% CL)		↓	>405	>405
IC50 (95% CL)			>405	>405

~~*TDO with Spearman-Kerber~~ JAB

Reviewed by: JGW

Date reviewed: May 17/11

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	13-9676-1506	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 10:02	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	~~05~~ 02 Jul-10 JAB	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~39d~~ 37d 12h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	13-8011-7421	**Code:**	NO3-MHW-Surv	**Client:**	BCMA
Sample Date:	~~15 Jul-10 12:53~~ n/a	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	~~15 Jul-10 12:53~~ n/a	**Source:**	BCMA		
Sample Age:	N/A JAB	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	405	>405	N/A		8.07%

Williams' Multiple Comparison Test

Control	vs Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control	5	0	1.734	6	0.1488	>0.05	Non-Significant Effect
	15	-0.03642	1.818	6	0.156	>0.05	Non-Significant Effect
	45	0.3281	1.845	6	0.1583	>0.05	Non-Significant Effect
	135	1.6	1.859	6	0.1595	>0.05	Non-Significant Effect
	405	0.9343	1.867	6	0.1602	>0.05	Non-Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		2.299	2.802	0.3632	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.05871808	0.01174362	5	0.7974	0.5657	Non-Significant Effect
Error	0.2650856	0.01472698	18			
Total	0.3238037	0.02647059	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	8.115	15.09	0.1500	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9364	0.884	0.1354	Normal Distribution

Survival Rate Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.9667	0.9563	0.977	0.9333	1	0.01361	0.02722	2.82%	0.0%
5		4	0.9667	0.9563	0.977	0.9333	1	0.01361	0.02722	2.82%	0.0%
15		4	0.9583	0.9266	0.99	0.8333	1	0.04167	0.08333	8.7%	0.86%
45		4	0.95	0.928	0.972	0.8667	1	0.02887	0.05773	6.08%	1.72%
135		4	0.8833	0.84	0.9266	0.7333	1	0.05693	0.1139	12.89%	8.62%
405		4	0.9583	0.952	0.9647	0.9333	0.9667	0.008333	0.01667	1.74%	0.86%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	4	1.391	1.364	1.417	1.31	1.479	0.03471	0.06943	4.99%	0.0%
5		4	1.391	1.364	1.417	1.31	1.479	0.03471	0.06943	4.99%	0.0%
15		4	1.397	1.335	1.46	1.15	1.479	0.08228	0.1646	11.78%	-0.45%
45		4	1.363	1.318	1.408	1.197	1.479	0.05935	0.1187	8.71%	2.03%
135		4	1.254	1.181	1.326	1.028	1.479	0.09493	0.1899	15.15%	9.87%
405		4	1.368	1.353	1.383	1.31	1.387	0.01939	0.03878	2.84%	1.66%

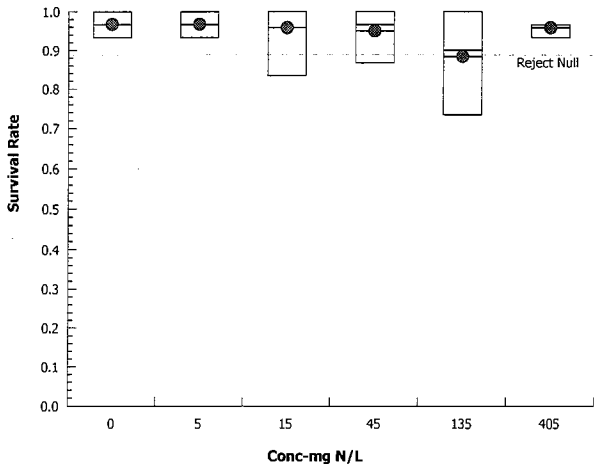
Salmonid Embryo Survival and Development Test **Nautilus Environmental**

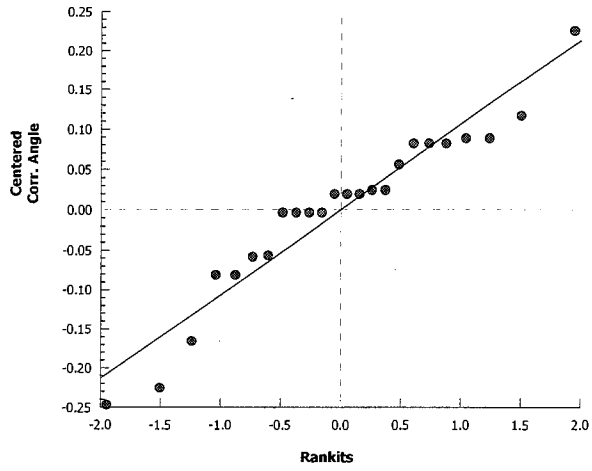
Analysis ID: 13-9676-1506 **Endpoint:** Survival Rate **CETIS Version:** CETISv1.8.0
Analyzed: 03 May-11 10:02 **Analysis:** Parametric-Control vs Ord.Treatments **Official Results:** Yes

Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9667	0.9333 ✓	1	0.9667 ✓
5		1	0.9667	0.9667	0.9333 ✓
15		1	1	1	0.8333 ✓
45		0.9667	1	0.8667 ✓	0.9667
135		1	0.8667	0.7333 ✓	0.9333 ✓
405		0.9333	0.9667	0.9667	0.9667

Graphics





Salmonid Embryo Survival and Development Test

Nautilus Environmental

Analysis ID:	10-2109-3627	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 9:55	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	~~05~~ 02 Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~39d~~ 37d 12h JAB	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	13-8011-7421	**Code:**	NO3-MHW-Surv	**Client:**	BCMA
Sample Date:	~~15 Jul-10 12:53~~ n/a	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	~~15 Jul-10 12:53~~ JAB	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	43753666	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value	Grubbs Extreme Value	2.299	2.802	0.3632	No Outliers Detected

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC5	>405	N/A	N/A
EC10	>405	N/A	N/A
EC15	>405	N/A	N/A
EC20	>405	N/A	N/A
EC25	>405	N/A	N/A
EC40	>405	N/A	N/A
EC50	>405	N/A	N/A

Survival Rate Summary

			Calculated Variate(A/B)								
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.9667	0.9333	1	0.01361	0.02722	2.82%	0.0%	116	120
5		4	0.9667	0.9333	1	0.01361	0.02722	2.82%	0.0%	116	120
15		4	0.9583	0.8333	1	0.04167	0.08333	8.7%	0.86%	115	120
45		4	0.95	0.8667	1	0.02887	0.05773	6.08%	1.72%	114	120
135		4	0.8833	0.7333	1	0.05693	0.1139	12.89%	8.62%	106	120
405		4	0.9583	0.9333	0.9667	0.008333	0.01667	1.74%	0.86%	115	120

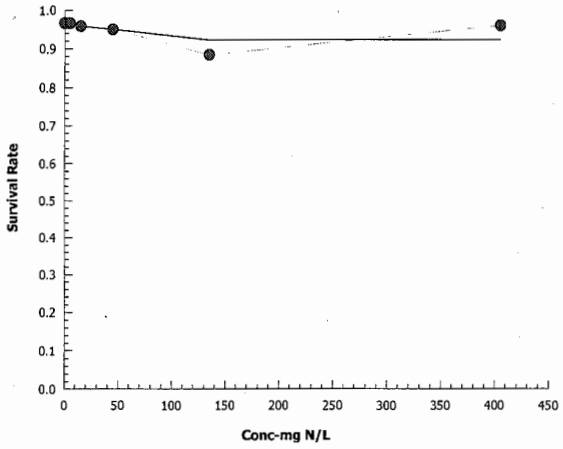
Survival Rate Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9667	0.9333	1	0.9667
5		1	0.9667	0.9667	0.9333
15		1	1	1	0.8333
45		0.9667	1	0.8667	0.9667
135		1	0.8667	0.7333	0.9333
405		0.9333	0.9667	0.9667	0.9667

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	10-2109-3627	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 9:55	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Salmonid Embryo Survival and Development Test ①

Nautilus Environmental

Analysis ID:	07-2640-9628	**Endpoint:**	Proportion Normal (% swim-up of initial fish)	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 10:02	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	~~05~~ 02 Jul-10 JAB	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~37d~~ 37d 12h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	

Sample ID:	13-8011-7421	**Code:**	NO3-MHW-Surv	**Client:**	BCMA
Sample Date:	~~15 Jul-10 12:53~~ n/a	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	~~15 Jul-10 12:53~~ JAB	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	45	135	77.94		16.1%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	-0.1117	1.734	6	0.2353	>0.05	Non-Significant Effect
		15	-0.1212	1.818	6	0.2467	>0.05	Non-Significant Effect
		45	-0.04701	1.845	6	0.2503	>0.05	Non-Significant Effect
		135*	5.358	1.859	6	0.2522	<0.05	Significant Effect
		405*	7.371	1.867	6	0.2533	<0.05	Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		3.324	2.802	0.0026	Outlier Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	4.21788	0.8435761	5	22.91	<0.0001	Significant Effect
Error	0.6626478	0.03681377	18			
Total	4.880528	0.8803898	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	10.73	15.09	0.0569	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.8692	0.884	0.0051	Non-normal Distribution

Proportion Normal Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.95	0.9336	0.9664	0.9	1	0.02152	0.04303	4.53%	0.0%
5		4	0.9583	0.9462	0.9705	0.9333	1	0.01596	0.03191	3.33%	-0.88%
15		4	0.95	0.9198	0.9802	0.8333	1	0.03967	0.07935	8.35%	0.0%
45		4	0.95	0.928	0.972	0.8667	1	0.02887	0.05773	6.08%	0.0%
135		4	0.35	0.3106	0.3894	0.2	0.4333	0.05182	0.1036	29.61%	63.16%
405		4	0.1833	0.06782	0.2988	0	0.6333	0.1518	0.3037	165.6%	80.7%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	4	1.356	1.318	1.394	1.249	1.479	0.04982	0.09964	7.35%	0.0%
5		4	1.371	1.341	1.402	1.31	1.479	0.04035	0.0807	5.88%	-1.12%
15		4	1.374	1.315	1.433	1.15	1.479	0.0777	0.1554	11.31%	-1.31%
45		4	1.363	1.318	1.408	1.197	1.479	0.05935	0.1187	8.71%	-0.47%
135		4	0.6293	0.586	0.6727	0.4636	0.7185	0.05695	0.1139	18.1%	53.6%
405		4	0.3562	0.2073	0.5051	0.09141	0.9204	0.1957	0.3914	109.9%	73.74%

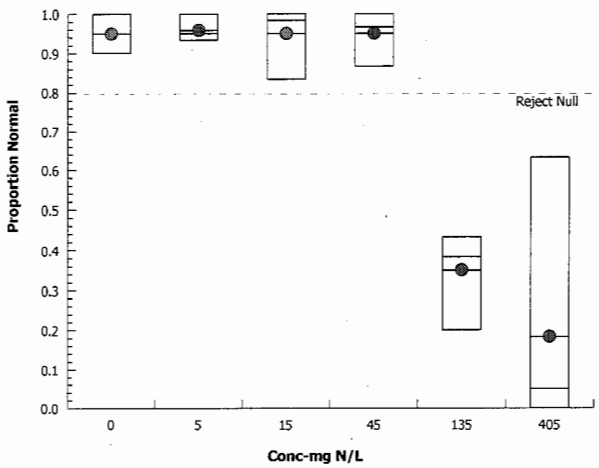
Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

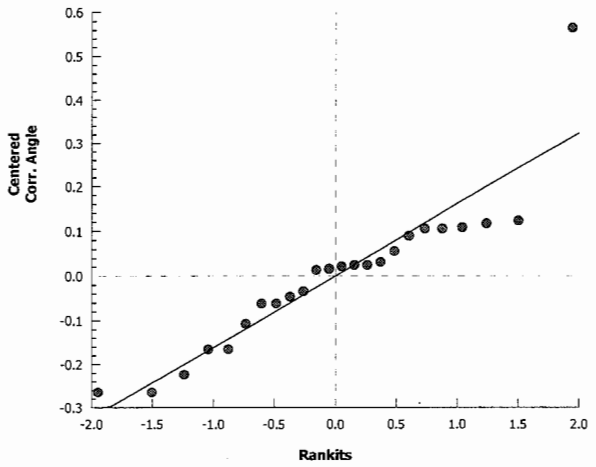
Analysis ID: 07-2640-9628 **Endpoint:** Proportion Normal (% swim-up of initial fish) **CETIS Version:** CETISv1.8.0
Analyzed: 03 May-11 10:02 **Analysis:** Parametric-Control vs Ord.Treatments **Official Results:** Yes

Proportion Normal Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9667	0.9333	1	0.9 ✓
5		1	0.9667	0.9333 ✓	0.9333
15		0.9667	1	1	0.8333 ✓
45		0.9667	1	0.8667	0.9667
135		0.2 ✓	0.4333 ✓	0.3667 ✓	0.4 ✓
405		0.6333 ✓	0	0	0.1 ✓

Graphics





Salmonid Embryo Survival and Development Test ②
Nautilus Environmental

Analysis ID:	09-3915-6556	**Endpoint:**	Proportion Normal (%swim-up of initial)	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 10:01	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	~~06~~ 02 Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~37d 12h~~ 37d 12h JAB	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	13-8011-7421	**Code:**	NO3-MHW-Surv	**Client:**	BCMA
Sample Date:	~~15 Jul-10 12:53~~ n/a	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	~~15 Jul-10 12:53~~	**Source:**	BCMA		
Sample Age:	N/A JAB	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	45	135	77.94		9.42%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	-0.1809	1.74	6	0.1457	>0.05	Non-Significant Effect
		15	-0.1964	1.824	6	0.1527	>0.05	Non-Significant Effect
		45	-0.07618	1.852	6	0.1551	>0.05	Non-Significant Effect
		135*	8.683	1.866	6	0.1562	<0.05	Significant Effect
		405*	13.14	1.861	5	0.1683	<0.05	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	4.617245	0.923449	5	65.87	<0.0001	Significant Effect
Error	0.2383264	0.0140192	17			
Total	4.855571	0.9374682	22			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	1.277	15.09	0.9373	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9457	0.88	0.2382	Normal Distribution

Proportion Normal Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.95	0.9336	0.9664	0.9	1	0.02152	0.04303	4.53%	0.0%
5		4	0.9583	0.9462	0.9705	0.9333	1	0.01596	0.03191	3.33%	-0.88%
15		4	0.95	0.9198	0.9802	0.8333	1	0.03967	0.07935	8.35%	0.0%
45		4	0.95	0.928	0.972	0.8667	1	0.02887	0.05773	6.08%	0.0%
135		4	0.35	0.3106	0.3894	0.2	0.4333	0.05182	0.1036	29.61%	63.16%
405		3	0.03333	0.01137	0.05529	0	0.1	0.03333	0.05774	173.2%	96.49%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	4	1.356	1.318	1.394	1.249	1.479	0.04982	0.09964	7.35%	0.0%
5		4	1.371	1.341	1.402	1.31	1.479	0.04035	0.0807	5.88%	-1.12%
15		4	1.374	1.315	1.433	1.15	1.479	0.0777	0.1554	11.31%	-1.31%
45		4	1.363	1.318	1.408	1.197	1.479	0.05935	0.1187	8.71%	-0.47%
135		4	0.6293	0.586	0.6727	0.4636	0.7185	0.05695	0.1139	18.1%	53.6%
405		3	0.1682	0.1176	0.2188	0.09141	0.3218	0.07678	0.133	79.07%	87.6%

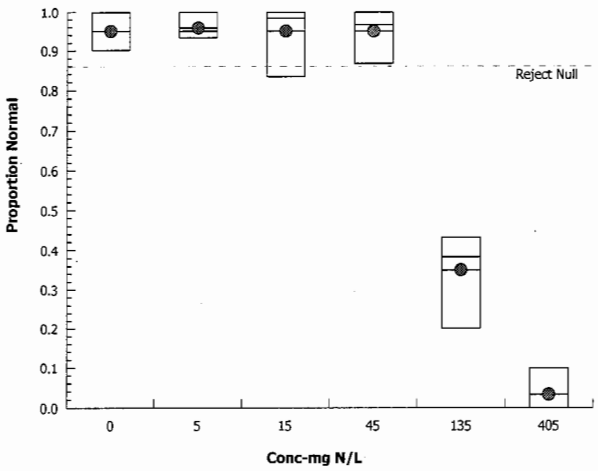
Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

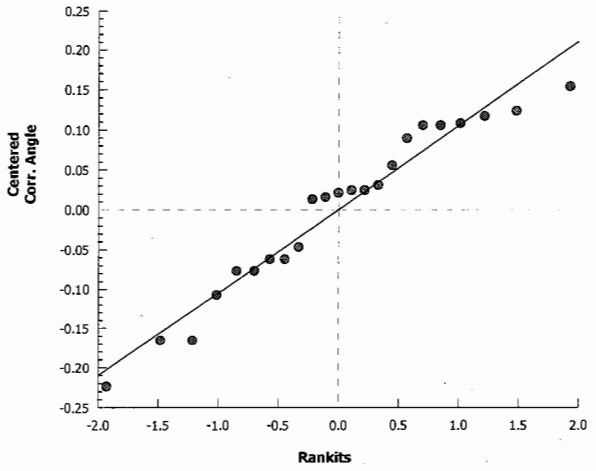
Analysis ID: 09-3915-6556 **Endpoint:** Proportion Normal (% swim-up of initial) **CETIS Version:** CETISv1.8.0
Analyzed: 03 May-11 10:01 **Analysis:** Parametric-Control vs Ord.Treatments **Official Results:** Yes

Proportion Normal Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9667	0.9333	1	0.9
5		1	0.9667	0.9333	0.9333
15		0.9667	1	1	0.8333
45		0.9667	1	0.8667	0.9667
135		0.2	0.4333	0.3667	0.4
405		Outlier	0	0	0.1

Graphics





Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	11-3725-3330	**Endpoint:**	Proportion Normal (% sea in-up of initial)	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 9:56	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	~~03~~ 02 Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~30d~~ 12h 37d JAB	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	13-8011-7421	**Code:**	NO3-MHW-Surv	**Client:**	BCMA
Sample Date:	~~15 Jul-10~~ 12:53 N/A	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	~~15 Jul-10 12:53~~ SAB	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	461442221	200	Yes	Two-Point Interpolation

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC5	48.76	N/A	50.08
EC10	53.24	44.47	55.64
EC15	58.13	49.23	61.95
EC20	63.45	53.95	68.87
EC25	69.25	58.89	77.27
EC40	89.98	75.1	107.8
EC50	107.1	85.75	134.1

Proportion Normal Summary

			Calculated Variate(A/B)								
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.95	0.9	1	0.02152	0.04303	4.53%	0.0%	114	120
5		4	0.9583	0.9333	1	0.01596	0.03191	3.33%	-0.88%	115	120
15		4	0.95	0.8333	1	0.03967	0.07935	8.35%	0.0%	114	120
45		4	0.95	0.8667	1	0.02887	0.05773	6.08%	0.0%	114	120
135		4	0.35	0.2	0.4333	0.05182	0.1036	29.61%	63.16%	42	120
405		4	0.1833	0	0.6333	0.1518	0.3037	165.6%	80.7%	22	120

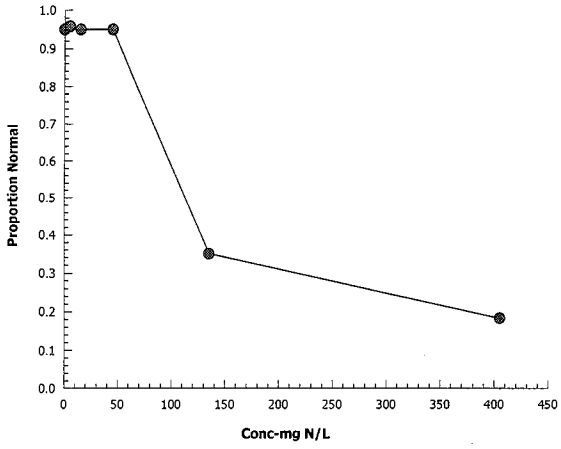
Proportion Normal Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9667	0.9333	1	0.9
5		1	0.9667	0.9333	0.9333
15		0.9667	1	1	0.8333
45		0.9667	1	0.8667	0.9667
135		0.2	0.4333	0.3667	0.4
405		0.6333	0	0	0.1

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	11-3725-3330	**Endpoint:**	Proportion Normal (% swim-up of initial)	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 9:56	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

JAB

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ Wet EAF Test

Nautilus Environmental

Analysis ID:	16-4383-7172	**Endpoint:**	Mean ~~Dry~~ Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 10:17	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ 37d	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	03 ~~05~~ Jul-10 12:00 JAB	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~40d 0h~~ 37d	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	11-7570-3703	**Code:**	NO3-MHW-WW	**Client:**	BCMA
Sample Date:	~~20 Jul-10 10:05~~ n/a	**Material:**	NO3	**Project:**	
Receive Date:	~~20 Jul-10 10:05~~ n/a	**Source:**	BCMA		
Sample Age:	N/A JAB	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	45	135	77.94		2.92%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	-0.1273	1.734	6	2.754	>0.05	Non-Significant Effect
		15	-0.874	1.818	6	2.887	>0.05	Non-Significant Effect
		45	-0.05291	1.845	6	2.93	>0.05	Non-Significant Effect
		135*	5.975	1.859	6	2.952	<0.05	Significant Effect
		405*	7.97	1.867	6	2.965	<0.05	Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		2.359	2.802	0.2966	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	779.8244	155.9649	5	30.92	<0.0001	Significant Effect
Error	90.7989	5.044384	18			
Total	870.6233	161.0093	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	11.47	15.09	0.0428	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9776	0.884	0.8489	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	101.5	100.5	102.5	98.41	103.7	1.273	2.546	2.51%	0.0%
5		4	101.7	100.9	102.5	99.57	104.2	1.007	2.014	1.98%	-0.2%
15		4	104.1	103.7	104.4	103	104.9	0.4656	0.9312	0.89%	-2.54%
45		4	101.6	100.8	102.4	98.69	103.8	1.081	2.161	2.13%	-0.08%
135		4	92.02	91.87	92.16	91.57	92.41	0.1914	0.3828	0.42%	9.35%
405		4	88.85	87.42	90.27	84.48	93.54	1.874	3.747	4.22%	12.47%

~~Fathead Minnow 7 d Larval Survival and Growth Test~~ EAF Test wet

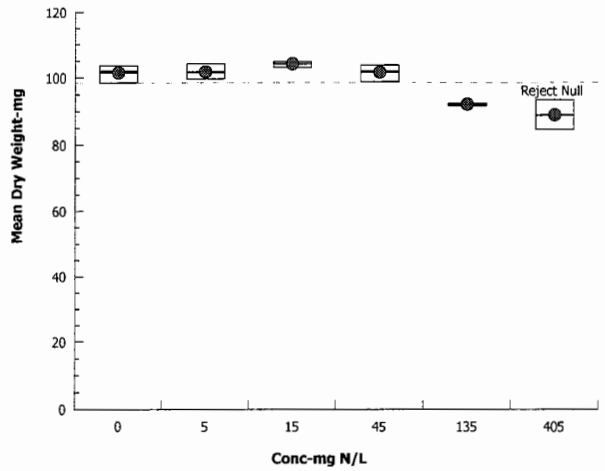
Nautilus Environmental

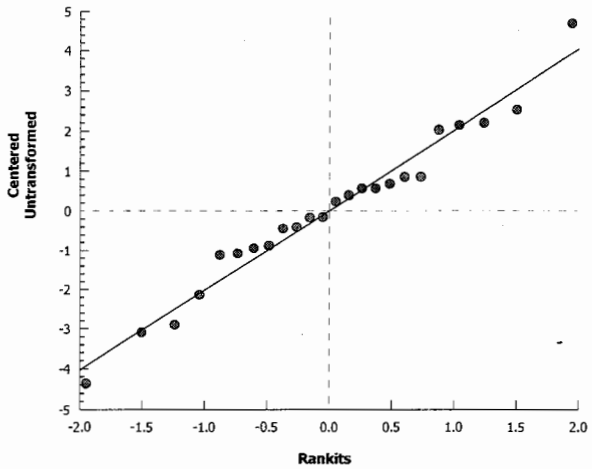
Analysis ID: 16-4383-7172 **Endpoint:** Mean ~~Dry~~ Weight-mg **CETIS Version:** CETISv1.8.0
Analyzed: 03 May-11 10:17 **Analysis:** Parametric-Control vs Ord.Treatments **Official Results:** Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	103.7	100.4	103.5	98.41
5		104.2	102.3	100.8	99.57
15		103	103.7	104.9	104.8
45		103.8	101.4	98.69	102.4
135		91.57	91.85	92.41	92.25
405		93.54	84.48	87.97	89.41

Graphics





CETIS Analytical Report

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ EAF Test (wet)

Nautilus Environmental

Analysis ID:	14-2711-3832	**Endpoint:**	Mean ~~Dry~~ Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 10:17	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ 37d	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	~~05~~ 02 Jul-10 12:00 JAB	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~40d 0h~~ 37d JAB	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	11-7570-3703 JAB	**Code:**	NO3-MHW-WW	**Client:**	BCMA
Sample Date:	~~20-Jul-10 10:05~~ n/a	**Material:**	NO3	**Project:**	
Receive Date:	~~20-Jul-10 10:05~~ n/a	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1.037E+09	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value	Grubbs Extreme Value	2.359	2.802	0.2966	No Outliers Detected

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC5	73.69	51.08	83.55
IC10	132.4	106	223.8
IC15	>405	N/A	N/A
IC20	>405	N/A	N/A
IC25	>405	N/A	N/A
IC40	>405	N/A	N/A
IC50	>405	N/A	N/A

Mean Dry Weight-mg Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	101.5	98.41	103.7	1.273	2.546	2.51%	0.0%
5		4	101.7	99.57	104.2	1.007	2.014	1.98%	-0.2%
15		4	104.1	103	104.9	0.4656	0.9312	0.89%	-2.54%
45		4	101.6	98.69	103.8	1.081	2.161	2.13%	-0.08%
135		4	92.02	91.57	92.41	0.1914	0.3828	0.42%	9.35%
405		4	88.85	84.48	93.54	1.874	3.747	4.22%	12.47%

Mean Dry Weight-mg Detail

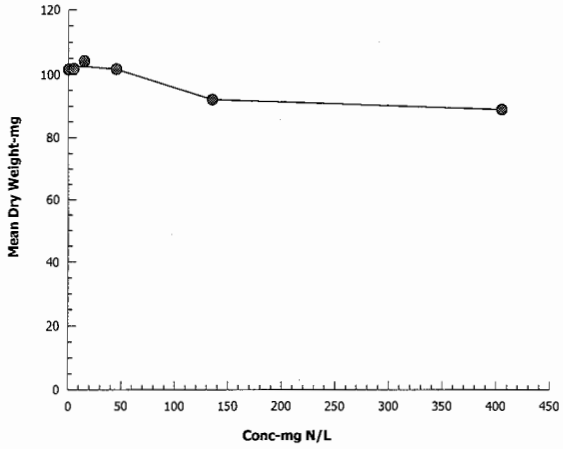
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	103.7	100.4	103.5	98.41
5		104.2	102.3	100.8	99.57
15		103	103.7	104.9	104.8
45		103.8	101.4	98.69	102.4
135		91.57	91.85	92.41	92.25
405		93.54	84.48	87.97	89.41

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ EAF Test

Nautilus Environmental

Analysis ID:	14-2711-3832	**Endpoint:**	Mean ~~Dry~~ Wet Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	03 May-11 10:17	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Analyst:_____ QA: May 17/11

CETIS Analytical Report

EAF Test

Test Code: 17-5519-6979/NO3-MHW-Le

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ Nautilus Environmental

Analysis ID:	19-4848-8131	**Endpoint:**	~~Mean Dry Weight-mg~~ Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	28 Sep-10 10:44	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ 37d	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/~~22~~ 28 JAB	**Diluent:**	~~Dechlorinated Tap Water~~
Ending Date:	~~26 May-10 12:00~~ 02 Jun-10	**Species:**	~~Pimephales promelas~~ O. mykiss	**Brine:**	MHW
Duration:	~~N/A~~ 37d	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	02-9286-3418	**Code:**	NO3-MHW-Le	**Client:**	BCMA
Sample Date:	~~20 Jul-10 11:12~~ n/a	**Material:**	NO3	**Project:**	
Receive Date:	~~20 Jul-10 11:12~~ n/a	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	45	135	77.942		3.16%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		5	0.51301	1.734	0.76052	>0.05	Non-Significant Effect
		15	0.74101	1.818	0.79736	>0.05	Non-Significant Effect
		45	1.254	1.845	0.8092	>0.05	Non-Significant Effect
		135*	5.1301	1.859	0.81534	<0.05	Significant Effect
		405*	7.1821	1.867	0.81885	<0.05	Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	33.60833	6.721667	5	17.471	<0.0001	Significant Effect
Error	6.925002	0.3847223	18			
Total	40.53334	7.106389	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	3.9182	15.086	0.5612	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9721		0.7190	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	25.95	25.768	26.132	25.5	26.5	0.08906	0.4796	1.85%	0.0%
5		4	25.725	25.599	25.851	25.3	26.1	0.061356	0.33041	1.28%	0.87%
15		4	25.625	25.435	25.815	25.1	26.1	0.092693	0.49917	1.95%	1.25%
45		4	25.4	25.176	25.624	24.6	26	0.10934	0.58879	2.32%	2.12%
135		4	23.7	23.483	23.917	23	24.3	0.10614	0.57156	2.41%	8.67%
405		4	22.8	22.411	23.189	21.6	23.7	0.18998	1.0231	4.49%	12.14%

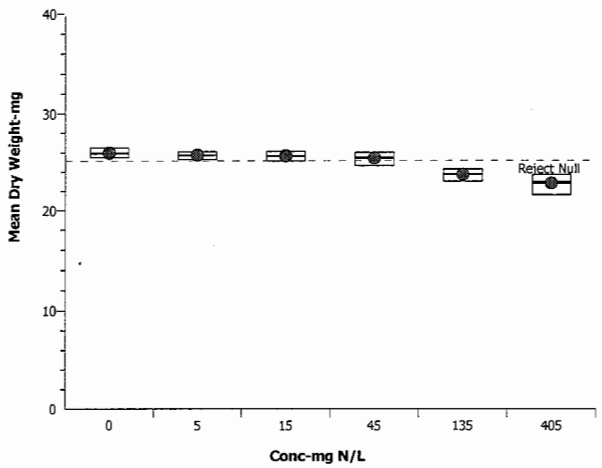
~~Fathead Minnow 7-d Larval Survival and Growth Test~~ **Nautilus Environmental**

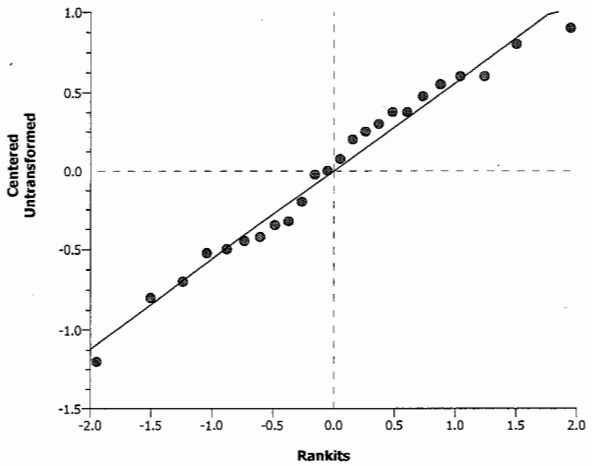
Analysis ID: 19-4848-8131 **Endpoint:** ~~Mean Dry Weight-mg~~ Length **CETIS Version:** CETISv1.7.0
Analyzed: 28 Sep-10 10:44 **Analysis:** Parametric-Control vs Ord.Treatments **Official Results:** Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	26.2	25.6	26.5	25.5
5		26.1	25.8	25.7	25.3
15		26	25.3	25.1	26.1
45		25.6	26	24.6	25.4
135		23	24.3	24	23.5
405		23.6	21.6	22.3	23.7

Graphics





CETIS Analytical Report

EAF Test

Test Code: 17-5519-6979/NO3-MHW-Le

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ Nautilus Environmental

Analysis ID:	18-5322-2725	**Endpoint:**	~~Mean Dry Weight-mg~~ Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	13 Aug-10 11:05	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ 37d	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/~~22~~ 28	**Diluent:**	~~Dechlorinated Tap Water~~
Ending Date:	~~26 May-10 12:00~~ 03 Jun-10	**Species:**	~~Pimephales promelas~~ O. mykiss	**Brine:**	m HW
Duration:	~~N/A~~ 37d	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	02-9286-3418	**Code:**	NO3-MHW-Le	**Client:**	BCMA
Sample Date:	~~20 Jul-10 11:12~~ n/a	**Material:**	NO3	**Project:**	
Receive Date:	~~20 Jul-10 11:12~~ n/a	**Source:**	BCMA		
Sample Age:	N/A JAB	**Station:**			

Non-Linear Regression Options

Model Function	X Transform	Y Transform	Weighting Function	PTBS Function
3P Log-Logistic EV [Y=A/(1+(X/D)^C)]	None	None	Normal [W=1]	Off [Y*=Y]

Regression Summary

Iters	Log LL	AICc	Adj R2	Optimize	F Stat	Critical	P-Value	Decision(5%)
11	0.44207	6.379	0.7701	Yes	1.3731	3.1599	0.2829	Non-Significant Lack of Fit

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC10	245.81	175.03	329.17
IC15	532.96	329.72	794.67
IC20	954.42	454.23	1712.8
IC25	1544.3	564.97	3332.3
IC40	4924	947.58	19211
IC50	9702.7	1418.4	66373

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(5%)
A	26.048	0.27653	25.473	26.623	94.197	<0.0001	Significant Parameter
C	0.59778	0.15236	0.28093	0.91464	3.9235	0.0008	Significant Parameter
D	9702.7	7893.4	-6712.5	26118	1.2292	0.2326	Non-Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Model	32.02357	16.01178	2	39.513	<0.0001	Significant
Lack of Fit	1.584766	0.5282554	3	1.3731	0.2829	Non-Significant
Pure Error	6.925002	0.3847223	18			
Residual	8.509768	0.405227	21			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Variances	Bartlett Equality of Variance	3.9182	11.071	0.5612	Equal Variances
	Mod Levene Equality of Variance	2.6451	2.7729	0.0581	Equal Variances
Distribution	Shapiro-Wilk Normality	0.9716		0.7064	Normal Distribution

Mean Dry Weight-mg Summary

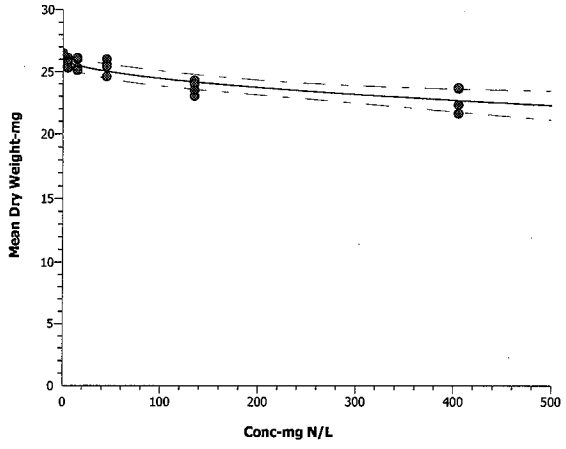
			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	25.95	25.5	26.5	0.087563	0.4796	1.85%	0.0%
5		4	25.725	25.3	26.1	0.060324	0.33041	1.28%	0.87%
15		4	25.625	25.1	26.1	0.091135	0.49917	1.95%	1.25%
45		4	25.4	24.6	26	0.1075	0.58879	2.32%	2.12%
135		4	23.7	23	24.3	0.10435	0.57156	2.41%	8.67%
405		4	22.8	21.6	23.7	0.18679	1.0231	4.49%	12.14%

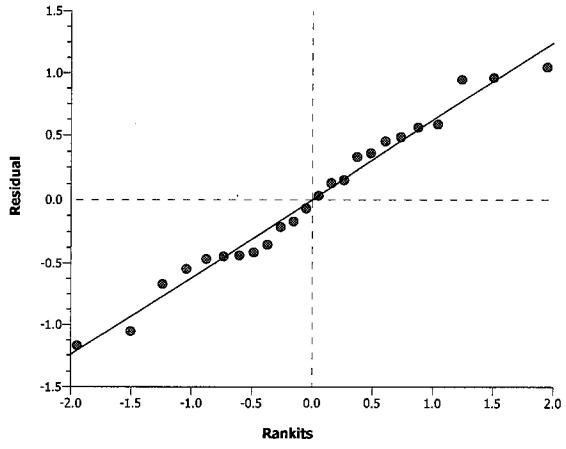
Analysis ID: 18-5322-2725 **Endpoint:** ~~Mean Dry Weight-mg~~ Length **CETIS Version:** CETISv1.7.0
Analyzed: 13 Aug-10 11:05 **Analysis:** Nonlinear Regression **Official Results:** Yes

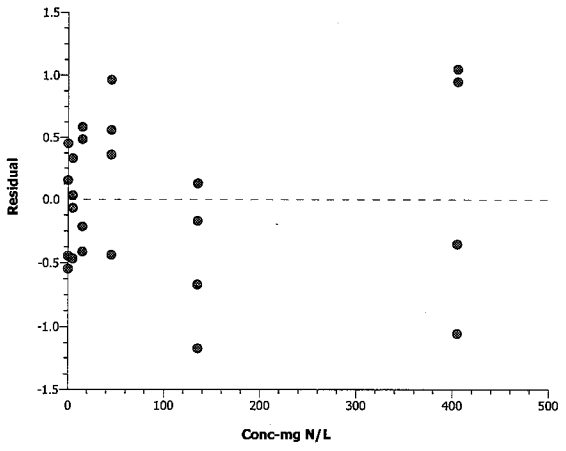
Mean Dry Weight-mg Detail

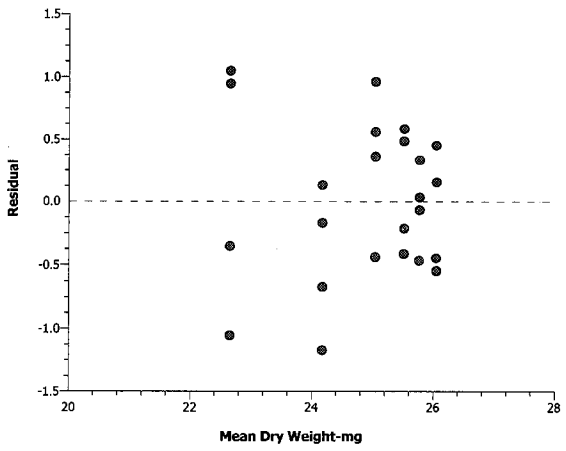
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	26.2	25.6	26.5	25.5
5		26.1	25.8	25.7	25.3
15		26	25.3	25.1	26.1
45		25.6	26	24.6	25.4
135		23	24.3	24	23.5
405		23.6	21.6	22.3	23.7

Graphics









Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: Control Moderately Hard Water
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: Control MHW	Days													
	0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	13.5	13.5		13.5
DO (mg/L)	10.4	10.6		10.3	10.3	10.1		10.2		10.0	10.2	10.2		10.1
pH	7.8	7.9		7.7	7.7	7.9		8.0		7.8	7.9	7.7		7.6
Cond. (µS/cm)	306			305						303				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: Control MHW	Days													
	7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.0		14.0	13.5	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.3	10.0		9.7	10.2	10.2		10.2		10.1	10.1	9.7		9.6
pH	7.7	7.8 SKM		7.7	7.8	7.8		7.9		7.7	8.0	7.9		7.9
Cond. (µS/cm)	303			317						335				
Initials	JAB	SKM		JAB		~		~		JAB		JAB		JAB

Treatment: Control MHW	Days													
	14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	9.9		10.2	10.1	10.2		10.3		9.9	10.0	10.3		10.1
pH	7.9	7.7		7.9	7.9	7.8		7.8		7.9	8.0	7.9		8.0
Cond. (µS/cm)	299			315						316				
Initials	JAB	SKM		~		~		~		JAB		SKM		JAB

Treatment: Control MHW	Days													
	21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.2	10.0		9.8	10.0	10.2		10.3		9.8	10.1	10.3		10.3
pH	8.0	7.7		7.7	7.8	7.8		7.8		7.7	7.8	7.8		7.7
Cond. (µS/cm)	313			312						318				
Initials	JAB	JAB		JAB		~		~		SKM		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	① Control-1	Control-2		
Hardness*	94	102	See attached	
Alkalinity*	62	64		

* mg/L as CaCO3

Analysts: JAB, TWD, SKM
Reviewed by: JAB
Date reviewed: May 12/11

Sample Description:

Comments: ①Multiple batches of control water prepared. See attached H/A datasheet

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: Control MHW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
Control MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	13.5	14.2		14.2		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	10.2		10.3	10.2	10.2		10.3		10.3	10.1	10.1		10.3
pH	7.8	7.7		7.8	7.9	8.0		7.9		7.6	7.7	7.8		7.8
Cond. (µS/cm)	316			320						JAB 35 321				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
Control MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.1	10.0												
pH	7.9	7.9												
Cond. (µS/cm)	316													
Initials	JAB	JJ												

Treatment	Days													
	44	45		46		47		48		49		50		51
Control MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
Control MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD
Reviewed by: JGK
Date reviewed: May 12/4

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 5mg/L Moderately HW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

5 mg N/L MHW	Days													
Treatment	0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.6		13.5	13.5	13.5		13.5
DO (mg/L)	10.4	10.5		10.3	10.3	10.1		10.2		9.8	10.1	10.2		10.2
pH	7.7	7.9		7.7	7.7	7.9		8.1		7.8	7.9	7.7		7.6
Cond. (µS/cm)	347			345						345				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

5 MHW	Days													
Treatment	7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.0		14.0	13.5	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.1		9.9	10.0	10.2		10.2		10.1	10.2	9.8		9.4
pH	7.6	7.9		7.8	7.9	7.8		7.9		7.7	7.9	7.8		7.8
Cond. (µS/cm)	345			358						387				
Initials	JAB	SKM		JAB		~		~		JAB		JAB		JAB

5 MHW	Days													
Treatment	14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	9.9		10.2	10.2	10.3		10.3		9.9	10.0	10.4		10.3
pH	7.8	7.8		7.9	7.9	7.8		7.8		7.8	8.0	7.9		7.9
Cond. (µS/cm)	330			339						359				
Initials	JAB	SKM		~		~		~		JAB		SKM		JAB

5 MHW	Days													
Treatment	21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.2	9.9		9.7	9.9	10.2		10.2		9.9	10.1	10.2		10.3
pH	7.9	7.8		7.7	7.8	7.8		7.8		7.7	7.9	7.4		7.7
Cond. (µS/cm)	355			349						354				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM
Reviewed by: JGH
Date reviewed: May 12/4

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 5 mg/L MHW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
5 mg/L MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	13.5	14.2		14.2		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	10.3		10.2	10.2	10.3		10.2		10.3	10.1	10.2		9.9
pH	7.8	7.7		7.8	7.9	7.9		7.9		7.6	7.7	7.7		7.7
Cond. (µS/cm)	358			363						362				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
5 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.1	10.1												
pH	7.9	7.9												
Cond. (µS/cm)	358													
Initials	JAB	JJJ												

Treatment	Days													
	44	45		46		47		48		49		50		51
5 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
5 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD

Reviewed by: JGH

Date reviewed: May 12/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 15 mg/L MHW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 15 mg N/L MHW	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	13.5	13.5		13.5
DO (mg/L)	10.4	10.6		10.3	10.3	10.1		10.2		9.9	10.2	10.2		10.2
pH	7.7	7.9		7.7	7.7	7.9		8.1		7.7	7.9	7.7		7.6
Cond. (µS/cm)	423			421						425				
Initials	JAB	JAB		JAB		^		~		JAB		JAB		QL

Treatment: 15 MHW	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.0		14.0	13.5	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.2		9.8	10.1	10.2		10.3		10.1	10.1	9.8		9.8
pH	7.7	7.9		7.8	7.9	7.8		7.9		7.7	7.9	7.9		7.9
Cond. (µS/cm)	425			441						484				
Initials	JAB	SKM		JAB		~		~		JAB		JAB		JAB

Treatment: 15 MHW	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.0		10.2	10.2	10.2		10.3		10.0	10.1	10.3		10.2
pH	7.7	7.8		7.8	7.8	7.8		7.7		7.8	8.0	7.8		7.9
Cond. (µS/cm)	418			430						447				
Initials	JAB	SKM		~		~		~		JAB		SKM		JAB

Treatment: 15 MHW	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.2	10.0		9.7	10.1	10.2		10.3		9.8	10.1	10.3		10.2
pH	7.9	7.7		7.7	7.8	7.8		7.7		7.7	7.9	7.8		7.7
Cond. (µS/cm)	440			426						429				
Initials	JAB	JAB		JAB		~		~		SKM		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM
Reviewed by: JGL
Date reviewed: May 12/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 15 mg/L MHW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
15 mg/L MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	~~JAB~~ 13.5		13.5	13.5	14.0		14.0		14.0	14.6	13.5		13.5
DO (mg/L)	10.2	10.2		10.3	10.2	10.2		10.3		10.2	10.1	9.8		10.0
pH	7.8	7.7		7.8	7.9	8.0		7.9		7.6	7.7	7.8		7.8
Cond. (µS/cm)	440			448						451				
Initials	JAB	JAB		JAB		"		"		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
15 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.1	10.1												
pH	7.9	8.0												
Cond. (µS/cm)	442													
Initials	JAB	JJT												

Treatment	Days													
	44	45		46		47		48		49		50		51
15 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
15 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD
Reviewed by: JGL
Date reviewed: May 12/4

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 45 mg/L MHW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 45 mg N/L MHW	Days													
	0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		~~13.5~~ 13.5		13.5	13.5	13.5		13.5
DO (mg/L)	10.4	10.6		10.2	10.3	10.1		10.3		9.9	9.9	10.2		10.3
pH	7.7	7.9		7.7	7.7	7.8		7.8		7.8	7.8	7.7		7.6
Cond. (µS/cm)	650			657						658				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: 45 MHW	Days													
	7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.6		14.0	13.5	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.2		9.8	10.2	10.2		10.2		10.1	10.1	9.9		9.8
pH	7.7	7.8		7.8	7.9	7.8		7.8		7.8	7.9	7.9		7.9
Cond. (µS/cm)	662			687						767				
Initials	JAB	SKM		JAB		~		~		JAB		JAB		JAB

Treatment: 45 MHW	Days													
	14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	~~13.5~~ 14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	9.8	9.9		10.3	10.2	10.3		10.3		9.8	10.3	10.3		10.0
pH	7.6	7.8		7.8	7.8	7.7		7.7		7.9	8.0	7.8		7.9
Cond. (µS/cm)	524			697						700				
Initials	JAB	SKM		~		~		~		JAB		SKM		JAB

Treatment: 45 MHW	Days													
	21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.1		9.9	10.1	10.2		10.3		10.0	10.2	10.3		10.2
pH	7.9	7.7		7.7	7.7	7.7		7.7		7.7	7.8	7.4		7.5
Cond. (µS/cm)	676			654						664				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: JGA

Date reviewed: May 12/10

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 45 mg/L MHW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
45mg/L MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	13.5	14.0		14.2		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	10.3		10.1	10.2	10.3		10.2		10.2	10.1	10.3		10.3
pH	7.8	7.7		7.8	7.9	8.0		7.8		7.6	7.7	7.8		7.8
Cond. (µS/cm)	680			692						722				
Initials	JAB	JAB		JAB		^		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
45 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.1	10.2												
pH	7.9	7.9												
Cond. (µS/cm)	691													
Initials	JAB	JJ												

Treatment	Days													
	44	45		46		47		48		49		50		51
45 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
45 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD

Reviewed by: JGL

Date reviewed: May 12/4

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 135 mg/L MHW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 135 mg N/L MHW	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.6		13.5		13.5	13.5	13.5		13.5
DO (mg/L)	10.3	10.5		10.3	10.3	10.1		10.2		9.6	10.1	10.3		10.2
pH	7.7	7.9		7.7	7.7	7.8		7.9		7.8	7.8	7.7		7.6
Cond. (µS/cm)	1325			1330						1345				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		~

Treatment: 135 MHW	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.0		14.0	13.5	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.2		9.9	10.2	10.2		10.2		10.1	10.2	9.7		9.3
pH	7.7	7.8		7.8	7.9	7.7		7.8		7.8	7.9	7.7		7.7
Cond. (µS/cm)	1334			1352						1508				
Initials	JAB			JAB		~		~		JAB		JAB		JAB

Treatment: 135 MHW	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	9.8	10.0		10.2	10.2	10.2		10.3		9.9	10.1	10.4		10.0
pH	7.6	7.7		7.7	7.8	7.7		7.6	JAB	~~10.0~~ 7.8	7.9	7.8		7.9
Cond. (µS/cm)	1254			1436						1448				
Initials	JAB	SKM				~		~		JAB		SKM		JAB

Treatment: 135 MHW	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.0		10.0	9.9	10.2		10.2		10.0	10.1	10.3		10.2
pH	7.9	7.7		7.7	7.7	7.5		7.6		7.7	7.8	7.4		7.6
Cond. (µS/cm)	1355			1325						1361				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM
Reviewed by: JGL
Date reviewed: May 12/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 135 mg/L MHW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1600h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
135 mg/L MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	13.5	14.0		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	10.2		10.2	10.2	10.2		10.1		10.3	10.1	10.0		10.3
pH	7.8	7.7		7.8	7.9	7.9		7.8		7.5	7.7	7.8		7.7
Cond. (µS/cm)	1359			1408						1465				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
135 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.1	10.0												
pH	7.9	7.7												
Cond. (µS/cm)	1411													
Initials	JAB	JJT												

Treatment	Days													
	44	45		46		47		48		49		50		51
135 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
135 MHW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD
Reviewed by: JGK
Date reviewed: May 12/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 405 mg/L MHW
Work Order #: n/a

Start Date & Time: May 26/10 @1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 405 mgN/L MHW	Days													
	0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.0	13.5		13.5		13.5	13.5	13.5		13.5
DO (mg/L)	10.2	10.5		10.2	10.3	12.1		12.2		9.9	10.1	10.2		10.4
pH	7.7	7.7		7.7	7.7	7.9		7.9		7.7	7.8	7.6		7.5
Cond. (µS/cm)	3280			3330						3360				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		~

Treatment: 405 MHW	Days													
	7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.0		14.0	13.5	13.5		13.5		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.3		9.9	10.2	10.2		10.2		10.1	10.2	9.6		9.7
pH	7.7	7.8		7.7	7.8	7.7		7.7		7.8	7.8	7.8		7.8
Cond. (µS/cm)	3260			3310						3600				
Initials	JAB	SKM		JAB		~		~		JAB		JAB		JAB

Treatment: 405 MHW	Days													
	14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.9	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	9.9		10.2	10.2	10.3		10.2		10.0	10.1	10.4		10.1
pH	7.6	7.7		7.6	7.7	7.7		7.6		7.8	7.8	7.8		7.8
Cond. (µS/cm)	3370			3610						3480				
Initials	JAB	SKM		~		~		~		JAB		SKM		JAB

Treatment: 405 MHW	Days													
	21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.3	10.0		9.6	9.9	10.2		10.3		9.9	10.1	10.2		10.4
pH	7.7	7.6		7.6	7.7	7.6		7.5		7.7	7.7	7.4		7.6
Cond. (µS/cm)	3360			3330						3460				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: JOL

Date reviewed: May 12/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 405 mg/L MHW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1600h
Test Species: *Oncorhynchus mykiss*

Treatment: 405 mg/L MHW	Days													
	29	30		31		32		33		34		35		36
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	13.5	14.2		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	10.1		10.3	10.2	10.2		10.2		10.0	10.1	10.0		10.2
pH	7.7	7.6		7.8	7.9	7.8		7.8		7.5	7.6	7.7		7.7
Cond. (µS/cm)	3390			3510						3580				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment: 405 MHW	Days													
	36	37		38		39		40		41		42		43
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.1	9.9												
pH	7.9	7.8												
Cond. (µS/cm)	3490													
Initials	JAB	JJT												

Treatment: 405 MHW	Days													
	44	45		46		47		48		49		50		51
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment: 405 MHW	Days													
	51	52		53		54		55		56		57		58
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD

Reviewed by: JOL

Date reviewed: May 12/11

Sample Description:

Comments:

Client: MABC

W.O.#: n/a

Hardness and Alkalinity Datasheet

	Alkalinity						Hardness			
Sample ID	Sample Date	Sample Volume (mL)	(mL) 0.02N HCL/H_2SO_4 used to pH 4.5	(mL) of 0.02N HCL/H_2SO_4 used to pH 4.2	Total Alkalinity ($mg/LCaCO_3$)		Sample Volume (mL)	Volume of 0.01M EDTA Used (mL)	Total Hardness ($mg/L\ CaCO_3$)	Technician
HW-Dilution	05/26/10	50	6.0	6.1	118		50	8.5	170	SKM
MHW-Dilution	05/26/10	50	3.2	3.3	62		50	4.2	84	SKM
SW-Dilution	05/26/10	50	1.8	1.9	34		50	2.3	46	SKM
Dechlor-Dilution	05/26/10	50	0.6	0.7	10		50	0.3	6	SKM
HW-Dilution	06/03/10	50	6.0	6.1	118		50	9.3	186	SKM
MHW-Dilution	06/03/10	50	3.3	3.4	64		50	5.1	102	SKM
SW-Dilution	06/03/10	50	2.0	2.1	38		50	2.8	56	SKM
Dechlor-Dilution	06/03/10	50	0.5	0.6	8		50	0.6	12	SKM
HW-Dilution	06/14/10	50	5.8	5.9	~~2~~ 114 SKM		50	8.9	178	SKM
MHW-Dilution	06/14/10	50	JAB ~~3.1~~ 3.3	JAB ~~3.3~~ 3.4	JAB ~~70~~ 64		50	4.5	90	SKM
SW-Dilution	06/14/10	50	JAB ~~1.6~~ 1.5	JAB ~~1.6~~ ~~1.7~~ ~~1.5~~ SKM	JAB ~~34~~ 28		50	2.5	50	SKM
Dechlor-Dilution	06/14/10	50	0.4	0.5	6		50	0.5	10	SKM
HW-Dilution	06/23/10	50	5.8	5.9	114		50	8.5	170	JAB
MHW-Dilution	06/23/10	50	3.1	3.2	60		50	4.7	94	JAB
SW-Dilution	06/23/10	50	1.7	1.8	32		50	2.5	50	JAB
Dechlor-Dilution	06/23/10	50	0.5	0.6	8		50	0.5	10	JAB

Notes:

Reviewed by: JGW

Date Reviewed: May 4/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW Control A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	26	0	JAB	3.006	29	JAB
2	25					
3	25					
4	25			1.29392	1.80915	
5	26					
6	26					
7	26					
8	26					
9	27					
10	25					
11	26					
12	26					
13	26					
14	26					
15	28					
16	26					
17	26					
18	27					
19	27					
20	25					
21	26					
22	27					
23	26			MHW Ctrl A		
24	27					
25	27					
26	26					
27	27					
28	27					
29	26					
30						

JGL
May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW Control B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	27	0	JAB	2.812	28	JAB
2	25					
3	25					
4	26			1.29173	1.78528	
5	27					
6	26					
7	25					
8	26					
9	25					
10	24					
11	25					
12	26					
13	26			MHW CtrlB		
14	25					
15	25					
16	26					
17	27					
18	27					
19	25					
20	26					
21	25					
22	25					
23	25					
24	25					
25	25					
26	26					
27	25					
28	26					
29						
30						

JOH
May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW Control C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	26	~~3~~ 0		3.106	30	JAB
2	26					
3	28					
4	27			1.28698	1.81716	
5	27					
6	25					
7	26					
8	27					
9	27					
10	27					
11	27					
12	25					
13	26					
14	26					
15	26					
16	26					
17	26					
18	27					
19	27			MHW Ctrl C		
20	28					
21	25					
22	27					
23	25					
24	27					
25	27					
26	28					
27	27					
28	26					
29	26					
30	27					

JGH
May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW Control D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	25	0	JAB	2.854	29	JAB
2	25	1				
3	25	0				
4	26					
5	24					
6	27					
7	26					
8	26					
9	24	1				
10	25	0				
11	26					
12	25					
13	27					
14	26					
15	26					
16	26					
17	26					
18	24					
19	25					
20	27					
21	26					
22	26					
23	25					
24	25					
25	24					
26	25					
27	26					
28	25					
29	26					
30						

1.80282

MHW D Ctrl

JGh
May 12/11

Nautilus Environmental

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 5A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	26	0	JAB	3.127	30	JAB
2	26					
3	25					
4	26					
5	26			1.29351	1.85691	
6	27					
7	25					
8	26					
9	26					
10	26					
11	25					
12	26					
13	26					
14	26					
15	25					
16	25					
17	26					
18	27					
19	28			MHW 5A		
20	27					
21	26					
22	28					
23	26					
24	27					
25	26					
26	26					
27	26					
28	25					
29	26					
30	26	↓	↓			

JGH
May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW SB

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	26	0	JAB	2.966	29	JAB
2	25					
3	25					
4	27					
5	26					
6	25					
7	26					
8	28					
9	26					
10	26					
11	25					
12	25					
13	25					
14	26					
15	26					
16	26					
17	27					
18	24					
19	26					
20	26					
21	27					
22	26					
23	25					
24	27					
25	26					
26	26					
27	26					
28	24					
29	25					
30						

1.29546 1.80844

MHW SB

JGH May 12/11

Nautilus Environmental

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHWSC

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	27	0	JAB	2.922	29	JAB
2	27	0				
3	24	1				
4	25	0				
5	26					
6	24					
7	26					
8	25					
9	25					
10	25					
11	24					
12	26					
13	26					
14	26					
15	25					
16	26					
17	26					
18	26					
19	26					
20	26					
21	27					
22	27					
23	26					
24	26					
25	26					
26	25					
27	26					
28	26					
29	26	↓	↓			
30						

1.29255 1.81473

MHW SC

JGM May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 5D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	26	0	JAB	2.788	28	JAB
2	26					
3	25					
4	25					
5	24			1.29300	1.78630	
6	27					
7	25					
8	25					
9	25					
10	25					
11	25					
12	26			MHW 5D		
13	25					
14	25					
15	25					
16	26					
17	26					
18	25					
19	25					
20	25					
21	25					
22	23					
23	26					
24	26					
25	25					
26	25					
27	25					
28	27	↓	↓			
29						
30						

JGH
May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 15 A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	25	1	JAB	3.089	30	JAB
2	26	0				
3	26					
4	27					
5	25			1.28820	1.82728	
6	26					
7	25					
8	26					
9	25					
10	26					
11	25					
12	26					
13	26					
14	26					
15	26					
16	26					
17	26					
18	26					
19	27					
20	27					
21	25					
22	26					
23	27					
24	27					
25	25					
26	27					
27	26					
28	26					
29	26					
30	26	↓	↓			

MHW 15A

JAB May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 5B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	25	0	JAB	3.110	30	JAB
2	24					
3	25					
4	25					
5	25			1.29697	1.84116	
6	24					
7	26					
8	25					
9	25					
10	25					
11	26					
12	24					
13	27				MHW 15B	
14	25					
15	25					
16	24					
17	25					
18	25					
19	26					
20	26					
21	24					
22	25					
23	25					
24	26					
25	24					
26	25					
27	26					
28	26					
29	26					
30	27					

JGH May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 15C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	25	0	JAB	3.148	30	JAB
2	25					
3	26					
4	27			1.29421	1.83009	
5	27					
6	26					
7	26					
8	24					
9	25					
10	25			MHW 15C		
11	25					
12	25					
13	24					
14	25					
15	25					
16	24					
17	25					
18	24					
19	25					
20	25					
21	24					
22	24					
23	24/5 RM					
24	25					
25	25					
26	25					
27	25					
28	25					
29	25					
30	25	↓	↓			

JGH May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 15 D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	26	0	JAB	2.619	25	JAB
2	26					
3	25					
4	27					
5	27					
6	26			1.29722	1.75256	
7	25					
8	26					
9	26					
10	26					
11	26					
12	27					
13	27					
14	25					
15	28				MHW 15 D	
16	26					
17	27					
18	26					
19	26					
20	26					
21	25					
22	26					
23	26					
24	27					
25	25	↓	↓			
26						
27						
28						
29						
30						

JGH
May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 45A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	25	0	JAB	3.010	29	JAB
2	26					
3	25					
4	26			1.29413	1.81230	
5	24					
6	27					
7	26					
8	24					
9	26					
10	27					
11	26					
12	25					
13	26					
14	26			MHW 45A.		
15	25					
16	25					
17	26					
18	25					
19	26					
20	25					
21	27					
22	26					
23	25					
24	25					
25	25					
26	26					
27	26					
28	26					
29	25	↓	↓			
30						

JGL May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 45B

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	27	0	JAB	3.043	30	JAB
2	27					
3	26					
4	27			1.29766	1.83021	
5	27					
6	25					
7	27					
8	26					
9	26					
10	27					
11	25					
12	26					
13	25					
14	25					
15	27					
16	26					
17	25					
18	25					
19	26					
20	26					
21	27					
22	27					
23	25					
24	26					
25	26			MHW 45B		
26	26					
27	25					
28	26					
29	26					
30	26		↓			

JAB May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 45 C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	23	0	JAB	2.566	26	JAB
2	25					
3	24					
4	25			1.29299 1.74662		
5	25					
6	25					
7	26					
8	25					
9	25					
10	24					
11	25					
12	25					
13	25					
14	25					
15	24					
16	25					
17	25			MHW 45C		
18	24					
19	24					
20	23					
21	24					
22	25					
23	24					
24	23					
25	25					
26	26					
27						
28						
29						
30						

JGH
May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 45D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	23	0	JAB	2.971	29	JAB
2	26					
3	25					
4	25					
5	25					
6	26					
7	26					
8	25					
9	26					
10	26					
11	25					
12	23					
13	26					
14	25					
15	26					
16	26					
17	25					
18	25					
19	26					
20	26					
21	25					
22	27					
23	26					
24	26					
25	25					
26	25					
27	25					
28	26					
29	27					
30						

1.29002 1.81002

MHW 45D

JAB
May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID MHW ~~103~~ Skin 135 A

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	24	1	JAB	2.747	30	JAB
2	20	2				
3	20	2				
4	21	2		1.28701	1.84489	
5	~~23~~	1				
6	25	0				
7	24	1				
8	23	1				
9	23	1				
10	22	1				
11	23	1				
12	23	1				
13	21	2				
14	22	2				
15	23	1				
16	24	0				
17	23	2				
18	23	2				
19	23	2				
20	24	1				
21	24	1				
22	24	0				
23	25	0				
24	24	0				
25	25	1				
26	~~23~~	1				
27	21	2				
28	22	2				
29	22	2				
30	25	0				

MHW 135A

JAB May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW B5B

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	23	0	JAB	2.388	~~26~~	JAB
2	25	1				
3	25	0				
4	23	0		1.29075	1.76729	
5	23	1				
6	24	0				
7	23	1				
8	25	0				
9	23	1				
10	25	0				
11	25	0				
12	25	0				
13	24	0				
14	24	1				
15	25	0				
16	25	1				
17	24	1				
18	25	1				
19	25	1				
20	23	1				
21	25	0				
22	23	0				
23	23	1				
24	25	0				
25	26	1				
26	25	1				
27						
28						
29						
30						

MHW B5B

JAB May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW B5 C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	24	1	JAB	2.033	22	JAB
2	25	1				
3	25	1				
4	25	0				
5	22	3		1.29580	1.72065	
6	25	0				
7	25	0				
8	VLM ~~20~~ 20	3				
9	~~25~~ 25	0				
10	23	0				
11	23	0				
12	25	1				
13	24	0				
14	25	1				
15	24	1				
16	25	0				
17	24	1				
18	24	1				
19	24	0				
20	24	0				
21	24	0				
22	24	1				
23						
24						
25						
26						
27						
28						
29						
30						

JGA May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 135 D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	25	0	JAB	2.583	28	JAB
2	22	1				
3	21	0				
4	23	2				
5	23	1		1.29681	1.80436	
6	23	1				
7	23	1				
8	22	2				
9	23	2				
10	25	0				
11	25	0				
12	23	1				
13	23	1				
14	24	0				
15	23	1				
16	23	1				
17	25	0				
18	22	2				
19	23	1				
20	23	1				
21	24	1				
22	23	1				
23	25	0				
24	25	0				
25	25	0				
26	25	0				
27	25	0				
28	24	0	✓			
29						
30						

MHW 135D

JGH May 12/4

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID MHW 405 A ~~D~~ B

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	24	1	JAB	2.619	28	JAB
2	25	0				
3	23	1				
4	22	1				
5	24	0				
6	22	0				
7	23	0				
8	26	~~0~~ 1				
9	23	0				
10	23	2				
11	23	1				
12	25	1				
13	22	0				
14	24	0				
15	25	0				
16	24	0				
17	23	0				
18	23	1				
19	23	0				
20	23	0				
21	23	0				
22	24	1				
23	22	0				
24	25	0				
25	24	0				
26	23	0				
27	25	0				
28	22	0	↓			
29						
30						

1.29740 1.82203

MHW 405 A

JAB May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 405B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	23	1	JAB	2.450	29	JAB
2	23	1				
3	22	1		1.29336	1.80481	
4	24	1				
5	21	2				
6	21	2				
7	20	2				
8	22	2				
9	22	2				
10	20	2				
11	~~20~~ 22 SKM	2		MHW 405B		
12	23	2				
13	22	2				
14	22	2				
15	21	2				
16	21	2				
17	22	2				
18	22	2				
19	22	2				
20	21	1				
21	21	2				
22	21	2				
23	21	2				
24	~~22~~ 21 SKM	2				
25	22	2				
26	19	2				
27	22	2				
28	22	2				
29	22	2	↓			
30						

JAB May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 405C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	23	2	JAB	2.551	29	JAB
2	23	2				
3	22	1				
4	23	2		1.29270	1.82050	
5	23	2				
6	23	2				
7	23	2				
8	24	2				
9	23	2				
10	23	2				
11	23	2				
12	22	2				
13	22	2				
14	23	2				
15	22	2				
16	22	1				
17	23	2		MHW 405C		
18	22	2				
19	22	2				
20	23	2				
21	22	2				
22	21	2				
23	22	2				
24	21	2				
25	21	2				
26	22	2				
27	22	2				
28	21	2				
29	21	2	↓			
30						

JGH
May 12/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: MHW 405 JAB A D

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Organism Weight	No. weighed	Initials
1	24	0	JAB	2.593	29	JAB
2	23	1				
3	24	0				
4	25	1		1.29060	1.77845	
5	24	1				
6	23	1				
7	23	1				
8	24	1				
9	23	1				
10	24	1				
11	23	2				
12	24	2				
13	24	1				
14	26	1				
15	25	1				
16	23	0				
17	24	1				
18	23	1				
19	23	1				
20	24	1				
21	23	1				
22	23	1				
23	23	1				
24	24	1				
25	24	1				
26	25	2				
27	25	1				
28	22	2				
29	24	1	J			
30						

MHW 405D

JGH
May 12/11

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: Moderately Hard Water
Work Order #: n/a
Start Date & Time: May 26/10 @ 1600 h
Stop Date: July 2/10
Test Species: *Oncorhynchus mykiss*

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		1	2	3	4	5	6	7	8	9	10	11	
Control	1		0			0		0		0			0
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0		0		0			0
5	1		0			0		0		6			0
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0		0		0			0
15	1		0			0		0		0			0
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0		0		0			0
45	1		0			0		0		0			0
	2		0			1		0		0			1
	3		0			0		1		0			1
	4		0			1		0		0			1
135	1		0			0		0		0			0
	2		0			1		0		0			1
	3		0			0		0		0			0
	4		0			0		0		0			0
405	1		0			0		0		0			0
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0		0		0			0
	1												
	2												
	3												
	4												
	1												
	2												
	3												
	4												
Tech Initials			JAB			JAB		JAB		JAB			

Comments: _____

Reviewed by: JGh **Date reviewed:** May 17/11

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: MrIW
Work Order #: n/a

Start Date & Time: May 26/10 @1600h
Stop Date: May 27/10
Test Species: *Oncorhynchus mykiss*

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		12	13	14	15	16	17	18	19	20	21	22	
Control	1	0		0	0				0		0		0
	2	0		0	0				0		0		0
	3	0		0	0				0		0		0
	4	0		0	0				0		0		0
5	1	0		0	0				0		0		0
	2	0		0	0				0		0		0
	3	0		0	0				0		0		0
	4	0		0	0				0		0		0
15	1	0		0	0				0		0		0
	2	0		0	0				0		0		0
	3	0		0	0				0		0		0
	4	0		0	0				0		0		0
45	1	0		0	0				0		0		0
	2	0		0	0				0		0		0
	3	0		0	0				0		0		0
	4	0		0	0				0		0		0
135	1	0		0	0				0		0		0
	2	0		0	0				0		0		0
	3	0		0	0				1		1		2
	4	0		0	0				0		0		0
405	1	0		1	0				0		0		1
	2	0		0	0				0		0		0
	3	0		0	0				0		0		0
	4	0		0	0				1		0		1
	1												
	2												
	3												
	4												
	1												
	2												
	3												
	4												
Tech Initials		JAB		JAB					JAB		JAB		

Comments: _____

Reviewed by: JGu **Date reviewed:** May 17/11

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Start Date & Time: May 26/10 @1600h
Sample ID: Moderately Hard Water
Stop Date: July 2/10
Work Order #: n/a
Test Species: O.mykiss

Treatments mg N/L	Rep	Day of Test - No. of Mortalities										
		22	23	24	25	26	27	28	Unf 29 Emb	30	31	32
Control	1		0			0		0	1	0		
	2		0			2		0	0	0		
	3		0			1		0	0	0		
	4		0			0		0	0	0		
5	1		0			0		0	0	0		
	2		0			1		0	0	0		
	3		0			0		0	0	1		
	4		0			0		0	0	1		
15	1		0			0		0	0	0		
	2		0			0		0	0	0		
	3		0			0		0	0	0		
	4		1			0		1	2	1[a]		
45	1		0			0		0	0	0		
	2		0			0		0	0	0		
	3		1			1		0	1	0		
	4		0			0[a]		0	0	0		
135	1		0			0		0	0	0		
	2		0			0		0	2	1[a]		
	3		1			1		0	1	2[a]		
	4		0			0		0	0	0		
405	1		0			0		0	0	0		
	2		0			0		1	0	0		
	3		0			0		0	0	0		
	4		0			0		0	0	0		
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials			JAB			JAB		JAB	JAB	JAB		

1 2 1 0 0 1 1 1 0 0 0 0 5 0 0 3 1 0 3 7 0 1 1 0 1

Comments: a-alevin

Reviewed by: JAB **Date reviewed:** May 17/11

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: Moderately Hard Water
Work Order #: n/a

Start Date & Time: May 26/10 @1600h
Stop Date: July 2/10
Test Species: *O.mykiss*

Treatments mg N/L	Rep	Day of Test - No. of Mortalities										
		~~39~~ ~~36~~	~~34~~	35	~~35~~ ~~36~~	~~37~~	~~37~~ ~~38~~	39	40	41	42	43
Control	1	0			0		0					
	2	0			0							
	3	0			0							
	4	0			0							
5	1	0			6							
	2	0			0							
	3	0			0							
	4	0			1							
15	1	0			0							
	2	0			0							
	3	0			0							
	4	0			0							
45	1	0			0							
	2	0			0							
	3	0			0							
	4	0			0							
135	1	0			0							
	2	0			0							
	3	0			0							
	4	0			0							
405	1	0			0							
	2	0			0							
	3	0			0							
	4	0			0		J					
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB			JAB		JAB					

1 2 5 0 0 1 1 2 0 0 0 0 5 0 0 3 1 0 3 7 0 1 1 0 1

Comments: _____

Reviewed by: JCM **Date reviewed:** May 17/11

Rainbow Trout Embryo-Alevin-Fry Test Summary Sheet

Client: MABC

Start Date/Time: 26-May-10 @1600h

Work Order No.: n/a

Test Species: *Oncorhynchus mykiss*

Sample Information:

Sample ID: Nitrate- Hard Water
Sample Date: —
Date Received: —
Sample Volume: —

Dilution Water:

Type: Synthetic Hard Water
Hardness (mg/L $CaCO_3$): 160-190
Alkalinity (mg/L $CaCO_3$): 110-120

Test Organism Information:

Batch No.: 052610
Source: Fraser Valley Trout Hatchery
Loading Density: 30 embryo in 2-L

SDS Reference Toxicant Results:

Reference Toxicant ID: RTE 26
Stock Solution ID: 10505
Date Initiated: May 26/10
7-d EC50 (95% CL): 5.1 (4.8-5.3) mg/L SDS

Reference Toxicant Mean ± 2 SD: 5.2 (2.5-10.8) (~~4.8-5.3~~) mg/L SDS JAB
Reference Toxicant CV (%): 44

Test Results:

mg/L NO3-N	Survival	% Swimup (Initial)	Wet Weight	Length
NOEC	405	405	45	405
LOEC	>405	>405	135	>405
EC25 (95% CL)	>405	>405		
EC50 (95% CL)	>405	>405		
IC25 (95% CL)			>405	>405
IC50 (95% CL)			>405	>405

Reviewed by: JGL

Date reviewed: May 12/11

CETIS Analytical Report

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	04-7916-8922	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	04 May-11 11:51	**Analysis:**	Linear Regression (MLE)	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Hard Synthetic Water
Ending Date:	~~08~~ 03 Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~30d~~ 37d 12h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	08-2497-9978	**Code:**	NO3-HW-Surv	**Client:**	BCMA
Sample Date:	~~15 Jul-10 12:57~~	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	~~15 Jul-10 12:57~~ MB	**Source:**	BCMA		
Sample Age:	N/A n/a	**Station:**			

Linear Regression Options

Model Function	Threshold Option	Threshold	Optimized	Pooled	Het Corr	Weighted
Log-Normal [NED=A+B*log(X)]	Control Threshold	0.0333333	Yes	No	No	Yes

Regression Summary

Iters	LL	AICc	BIC	Mu	Sigma	Adj R2	F Stat	Critical	P-Value	Decision(α:5%)
5	-135.9	279.3	280.8	15.57	5.615		0.3723	3.682	0.6953	Non-Significant Lack of Fit

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC10	205400	N/A	N/A
EC15	4885000	N/A	N/A
EC20	60630000	N/A	N/A
EC25	526200000	N/A	N/A
EC40	121800000	N/A	N/A
EC50	322300000	N/A	N/A

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(α:5%)
Threshold	0.03344	0.01639	0.001308	0.06556	2.04	0.0572	Non-Significant Parameter
Slope	0.1781	0.2635	-0.3384	0.6946	0.6758	0.5082	Non-Significant Parameter
Intercept	2.772	0.5799	1.636	3.909	4.78	0.0002	Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Model	1.851814	1.851814	1	1.9	0.1859	Non-Significant
Lack of Fit	0.7834641	0.3917321	2	0.3723	0.6953	Non-Significant
Pure Error	15.78181	1.052121	15			
Residual	16.56527	0.9744279	17			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Goodness-of-Fit	Pearson Chi-Sq GOF	16.57	27.59	0.4842	Non-Significant Heterogenity
	Likelihood Ratio GOF	20.58	27.59	0.2455	Non-Significant Heterogenity
Extreme Value	Grubbs Extreme Value	1.639	2.708	1.0000	No Outliers Detected
Variances	Bartlett Equality of Variance	1.443	9.488	0.8367	Equal Variances
	Mod Levene Equality of Variance	1.167	3.056	0.3644	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9511	0.9044	0.3845	Normal Distribution
	Anderson-Darling A2 Normality	0.3743	2.492	0.4205	Normal Distribution

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID: 04-7916-8922 **Endpoint:** Survival Rate **CETIS Version:** CETISv1.8.0
Analyzed: 04 May-11 11:51 **Analysis:** Linear Regression (MLE) **Official Results:** Yes

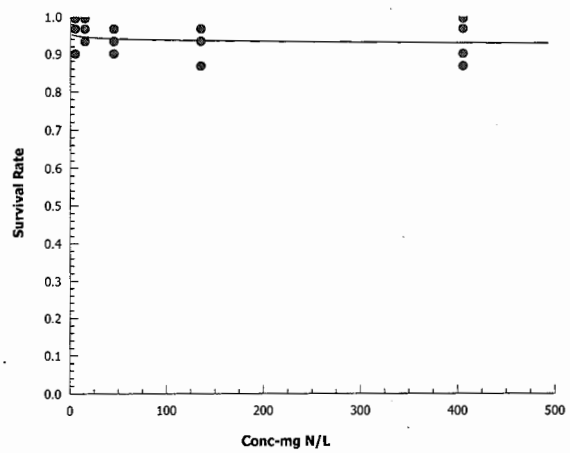
Survival Rate Summary

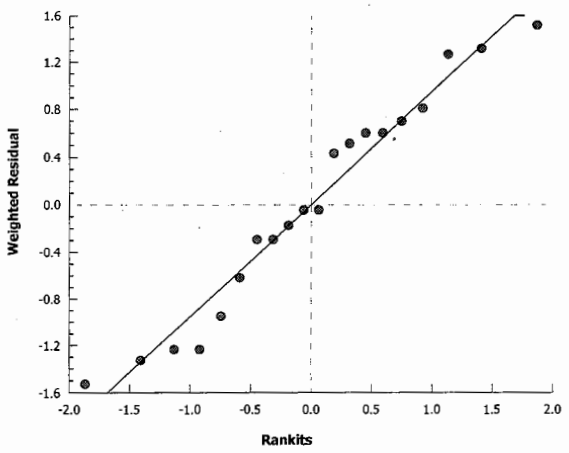
Conc-mg N/	Control Type	Count	Calculated Variate(A/B) Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.9667	0.9667	0.9667	0	0	0.0%	0.0%	116	120
5		4	0.9417	0.9	1	0.025	0.05	5.31%	2.59%	113	120
15		4	0.9583	0.9333	1	0.01596	0.03191	3.33%	0.86%	115	120
45		4	0.9417	0.9	0.9667	0.01596	0.03191	3.39%	2.59%	113	120
135		4	0.925	0.8667	0.9667	0.02097	0.04194	4.53%	4.31%	111	120
405		4	0.9333	0.8667	1	0.03043	0.06086	6.52%	3.45%	112	120

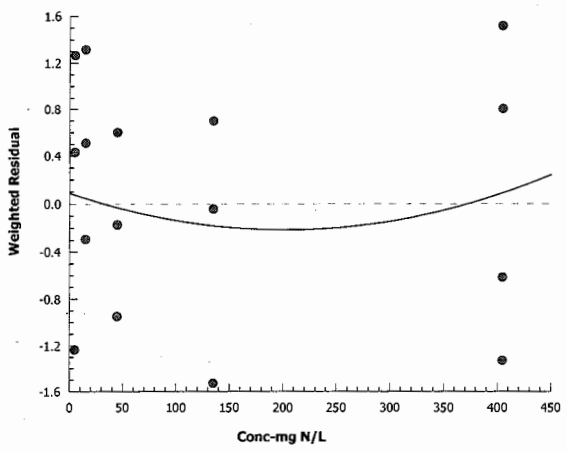
Survival Rate Detail

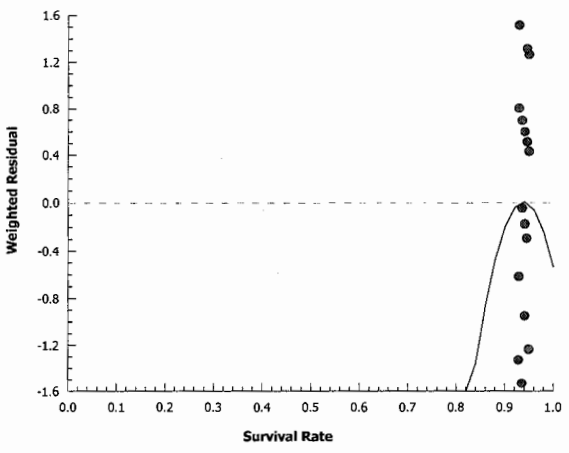
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9667	0.9667	0.9667	0.9667
5		0.9	1	0.9667	0.9
15		1	0.9667	0.9333	0.9333
45		0.9667	0.9667	0.9333	0.9
135		0.9667	0.9333	0.8667	0.9333
405		0.9667	1	0.8667	0.9

Graphics Log-Normal [NED=A+B*log(X)]









Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	03-3384-9365	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	04 May-11 11:51	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Hard Synthetic Water
Ending Date:	~~05~~ Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~39d~~ 12h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	08-2497-9978	**Code:**	NO3-HW-Surv	**Client:**	BCMA
Sample Date:	~~15 Jul-10 12:57~~	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	~~15 Jul-10 12:57~~	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	405	>405	N/A		5.57%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	0.7396	1.734	6	0.1079	>0.05	Non-Significant Effect
		15	0.4962	1.818	6	0.1131	>0.05	Non-Significant Effect
		45	0.8666	1.845	6	0.1148	>0.05	Non-Significant Effect
		135	1.387	1.859	6	0.1157	>0.05	Non-Significant Effect
		405	1.168	1.867	6	0.1162	>0.05	Non-Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		1.942	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.01941508	0.003883017	5	0.5014	0.7713	Non-Significant Effect
Error	0.1394073	0.007744852	18			
Total	0.1588224	0.01162787	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	3.171	4.248	0.0316	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9625	0.884	0.4905	Normal Distribution

Survival Rate Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.9667	0.9666	0.9667	0.9667	0.9667	0	0	0.0%	0.0%
5		4	0.9417	0.9226	0.9607	0.9	1	0.025	0.05	5.31%	2.59%
15		4	0.9583	0.9462	0.9705	0.9333	1	0.01596	0.03191	3.33%	0.86%
45		4	0.9417	0.9295	0.9538	0.9	0.9667	0.01596	0.03191	3.39%	2.59%
135		4	0.925	0.909	0.941	0.8667	0.9667	0.02097	0.04194	4.53%	4.31%
405		4	0.9333	0.9102	0.9565	0.8667	1	0.03043	0.06086	6.52%	3.45%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	4	1.387	1.387	1.387	1.387	1.387	0	0	0.0%	0.0%
5		4	1.341	1.298	1.384	1.249	1.479	0.05642	0.1128	8.41%	3.32%
15		4	1.371	1.341	1.402	1.31	1.479	0.04035	0.0807	5.88%	1.13%
45		4	1.333	1.308	1.359	1.249	1.387	0.0335	0.067	5.03%	3.89%
135		4	1.301	1.271	1.331	1.197	1.387	0.03915	0.0783	6.02%	6.22%
405		4	1.328	1.279	1.377	1.197	1.479	0.06443	0.1289	9.7%	4.26%

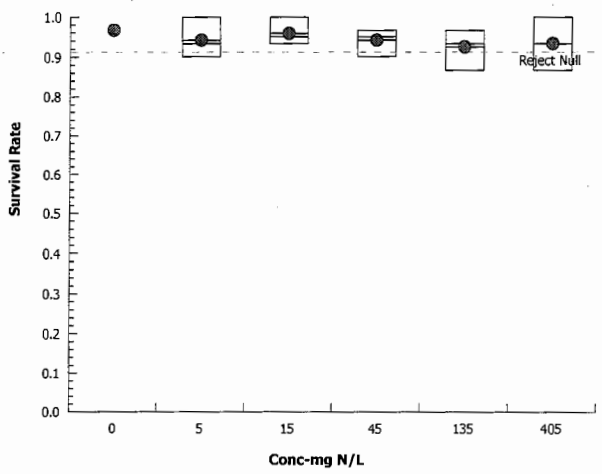
Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

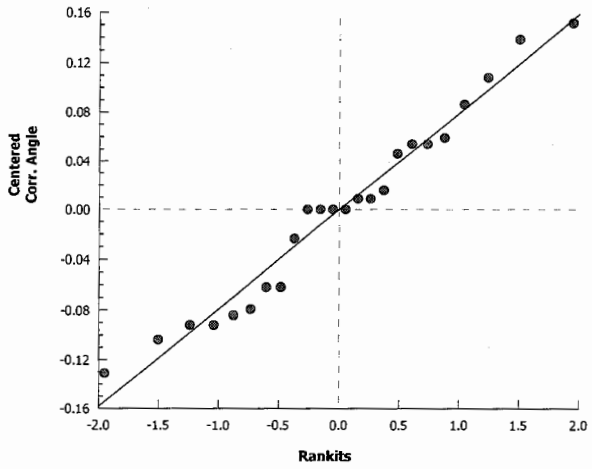
Analysis ID:	03-3384-9365	**Endpoint:**	Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	04 May-11 11:51	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Survival Rate Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9667	0.9667	0.9667	0.9667
5		0.9	1	0.9667	0.9
15		1	0.9667	0.9333	0.9333
45		0.9667	0.9667	0.9333	0.9
135		0.9667	0.9333	0.8667	0.9333
405		0.9667	1	0.8667	0.9

Graphics





CETIS Analytical Report

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	02-9411-0798	**Endpoint:**	Proportion Normal (%normal swim-up of initial # of fish)	**CETIS Version:**	CETISv1.8.0
Analyzed:	04 May-11 11:52	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Hard Synthetic Water
Ending Date:	~~05~~ 02 Jul-10	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~37d 39d~~ 12h	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	08-2497-9978	**Code:**	NO3-HW-Surv	**Client:**	BCMA
Sample Date:	~~15-Jul-10 12:57~~ n/a	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	~~15-Jul-10 12:57~~ n/a	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	282166643	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value	Grubbs Extreme Value	2.105	2.802	0.6708	No Outliers Detected

Point Estimates

Level	mg N/L	95% LCL	95% UCL
EC5	>405	N/A	N/A
EC10	>405	N/A	N/A
EC15	>405	N/A	N/A
EC20	>405	N/A	N/A
EC25	>405	N/A	N/A
EC40	>405	N/A	N/A
EC50	>405	N/A	N/A

Proportion Normal Summary

Conc-mg N/	Control Type	Count	Calculated Variate(A/B) Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.7833	0.5667	0.9333	0.07758	0.1552	19.81%	0.0%	94	120
5		4	0.7417	0.5667	0.9	0.07622	0.1524	20.55%	5.32%	89	120
15		4	0.9417	0.9	0.9667	0.01596	0.03191	3.39%	-20.21%	113	120
45		4	0.925	0.8667	0.9667	0.025	0.05	5.41%	-18.09%	111	120
135		4	0.9083	0.8667	0.9667	0.02097	0.04194	4.62%	-15.96%	109	120
405		4	0.925	0.8333	1	0.03696	0.07391	7.99%	-18.09%	111	120

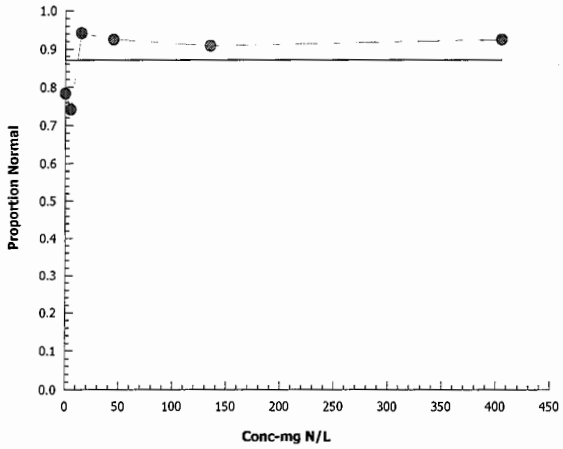
Proportion Normal Detail

Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9333 ✓	0.5667 ✓	0.8 ✓	0.8333 ✓
5		0.6667 ✓	0.9 ✓	0.5667 ✓	0.8333
15		0.9667 ✓	0.9667	0.9 ✓	0.9333
45		0.9667	0.9667	0.8667	0.9
135		0.9667	0.9	0.8667	0.9
405		0.9667	1	0.8333	0.9

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	02-9411-0798	**Endpoint:**	Proportion Normal (% swim-up / normal of initial # of fish)	**CETIS Version:**	CETISv1.8.0
Analyzed:	04 May-11 11:52	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Salmonid Embryo Survival and Development Test of initial # of fish — **Nautilus Environmental**

Analysis ID:	05-9610-3069	**Endpoint:**	Proportion Normal (%swim-up)	**CETIS Version:**	CETISv1.8.0
Analyzed:	04 May-11 11:51	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	13-7493-7698	**Test Type:**	Survival-Development	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Hard Synthetic Water
Ending Date:	~~05~~ 03 Jul-10 JAB	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~38d 12h~~ 37d JAB	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	08-2497-9978	**Code:**	NO3-HW-Surv	**Client:**	BCMA
Sample Date:	~~15 Jul-10 12:57~~	**Material:**	NO3	**Project:**	Nitrate
Receive Date:	~~15 Jul-10 12:57~~ JAB	**Source:**	BCMA		
Sample Age:	N/A n/a	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Angular (Corrected)	0	C > T	Not Run	405	>405	N/A		18.5%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	0.5539	1.734	6	0.1663	>0.05	Non-Significant Effect
		15	-0.9143	1.818	6	0.1743	>0.05	Non-Significant Effect
		45	-1.306	1.845	6	0.1769	>0.05	Non-Significant Effect
		135	-1.412	1.859	6	0.1782	>0.05	Non-Significant Effect
		405	-1.571	1.867	6	0.179	>0.05	Non-Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		2.105	2.802	0.6708	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.2915159	0.05830319	5	3.171	0.0316	Significant Effect
Error	0.3309549	0.01838638	18			
Total	0.6224709	0.07668957	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	4.537	15.09	0.4749	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9798	0.884	0.8928	Normal Distribution

Proportion Normal Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.7833	0.7243	0.8424	0.5667	0.9333	0.07758	0.1552	19.81%	0.0%
5		4	0.7417	0.6837	0.7997	0.5667	0.9	0.07622	0.1524	20.55%	5.32%
15		4	0.9417	0.9295	0.9538	0.9	0.9667	0.01596	0.03191	3.39%	-20.21%
45		4	0.925	0.906	0.944	0.8667	0.9667	0.025	0.05	5.41%	-18.09%
135		4	0.9083	0.8924	0.9243	0.8667	0.9667	0.02097	0.04194	4.62%	-15.96%
405		4	0.925	0.8969	0.9531	0.8333	1	0.03696	0.07391	7.99%	-18.09%

Angular (Corrected) Transformed Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Contr	4	1.105	1.033	1.177	0.8523	1.31	0.09478	0.1896	17.16%	0.0%
5		4	1.052	0.9831	1.12	0.8523	1.249	0.09024	0.1805	17.16%	4.81%
15		4	1.333	1.308	1.359	1.249	1.387	0.0335	0.067	5.03%	-20.68%
45		4	1.305	1.268	1.342	1.197	1.387	0.04857	0.09713	7.44%	-18.13%
135		4	1.271	1.24	1.302	1.197	1.387	0.04076	0.08153	6.42%	-15.0%
405		4	1.316	1.261	1.372	1.15	1.479	0.07287	0.1457	11.07%	-19.16%

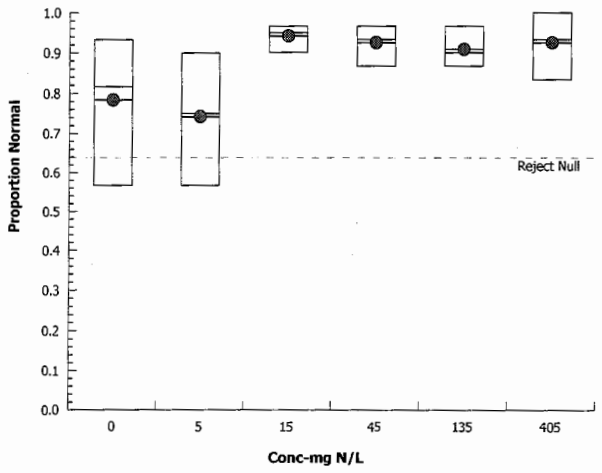
Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

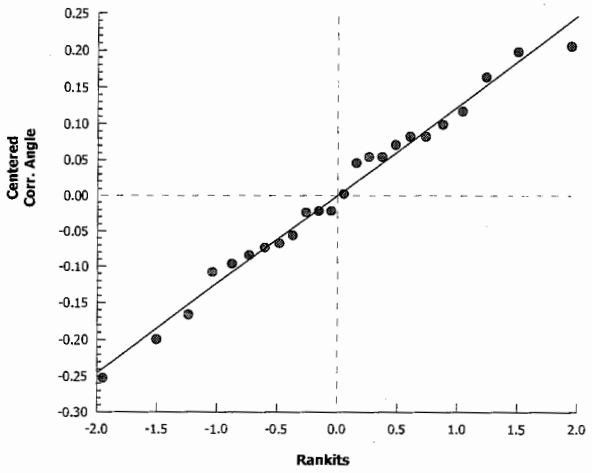
Analysis ID: 05-9610-3069 **Endpoint:** Proportion Normal (% swim-up) **CETIS Version:** CETISv1.8.0
Analyzed: 04 May-11 11:51 **Analysis:** Parametric-Control vs Ord.Treatments **Official Results:** Yes

Proportion Normal Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0.9333	0.5667	0.8	0.8333
5		0.6667	0.9	0.5667	0.8333
15		0.9667	0.9667	0.9	0.9333
45		0.9667	0.9667	0.8667	0.9
135		0.9667	0.9	0.8667	0.9
405		0.9667	1	0.8333	0.9

Graphics





CETIS Analytical Report

EAF Test

Test Code: NO3-HW-WW | 18-0403-4654

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ wet

Nautilus Environmental

Analysis ID:	05-1445-3457	**Endpoint:**	Mean ~~Dry~~ Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	04 May-11 12:02	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ ~~40d~~ 37d	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Hard Synthetic Water
Ending Date:	~~05~~ 03 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~40d 0h~~ 37d	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	06-7876-8459	**Code:**	NO3-HW-WW	**Client:**	BCMA
Sample Date:	~~20 Jul-10 10:10~~ JAB	**Material:**	NO3	**Project:**	
Receive Date:	~~20 Jul-10 10:10~~	**Source:**	BCMA		
Sample Age:	N/A	**Station:**			

Non-Linear Regression Options

Model Function	X Transform	Y Transform	Weighting Function	PTBS Function
3P Log-Logistic EV [Y=A/(1+(X/D)^C)]	None	None	Normal [W=1]	Off [Y*=Y]

Regression Summary

Iters	Log LL	AICc	BIC	Adj R2	Optimize	F Stat	Critical	P-Value	Decision(α:5%)
23	-28.11	63.42	65.75	0.8134	Yes	0.5128	3.16	0.6786	Non-Significant Lack of Fit

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC10	334.6	272.8	398.8
IC15	530.8	392.7	680.6
IC20	751.4	469.2	1083
IC25	1001	529.8	1617
IC40	1999	715.5	4636
IC50	2996	914.4	9813

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(α:5%)
A	102.9	0.7058	101.4	104.4	145.8	<0.0001	Significant Parameter
C	1.002	0.2499	0.4827	1.522	4.011	0.0006	Significant Parameter
D	2996	1510	-144.2	6135	1.984	0.0605	Non-Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Model	447.5618	447.5618	1	102.3	<0.0001	Significant
Lack of Fit	7.2347	2.411567	3	0.5128	0.6786	Non-Significant
Pure Error	84.6524	4.702911	18			
Residual	91.8871	4.375576	21			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value	Grubbs Extreme Value	1.888	2.802	1.0000	No Outliers Detected
Variances	Bartlett Equality of Variance	4.194	11.07	0.5218	Equal Variances
	Mod Levene Equality of Variance	0.5734	2.773	0.7196	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9737	0.9169	0.7572	Normal Distribution
	Anderson-Darling A2 Normality	0.2864	2.492	0.6534	Normal Distribution

Mean Dry Weight-mg Summary

			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	102.4	101.4	103.3	0.3889	0.7778	0.76%	0.0%
5		4	103	100.6	106.5	1.295	2.59	2.52%	-0.61%
15		4	102.2	98.63	104.9	1.304	2.608	2.55%	0.13%
45		4	102.4	100.6	104.4	0.9666	1.933	1.89%	-0.01%
135		4	97.83	96.32	99.88	0.8505	1.701	1.74%	4.44%
405		4	90.84	87.31	93.96	1.367	2.733	3.01%	11.27%

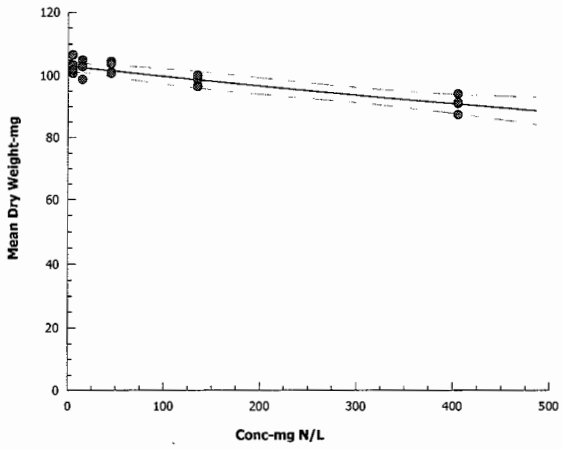
~~Fathead Minnow 7-d Larval Survival and Growth Test~~ **Nautilus Environmental**

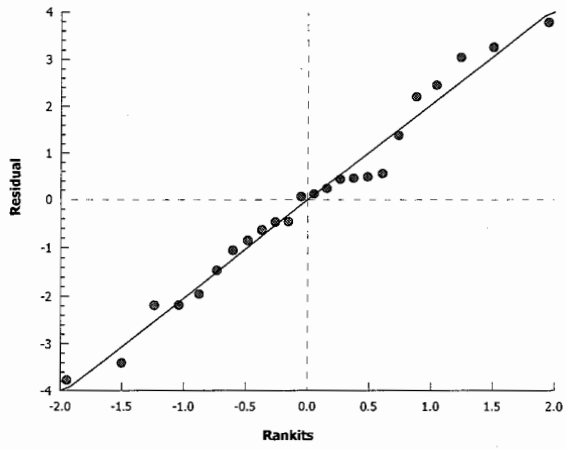
Analysis ID:	05-1445-3457	**Endpoint:**	Mean ~~Dry~~ Wet Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	04 May-11 12:02	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes

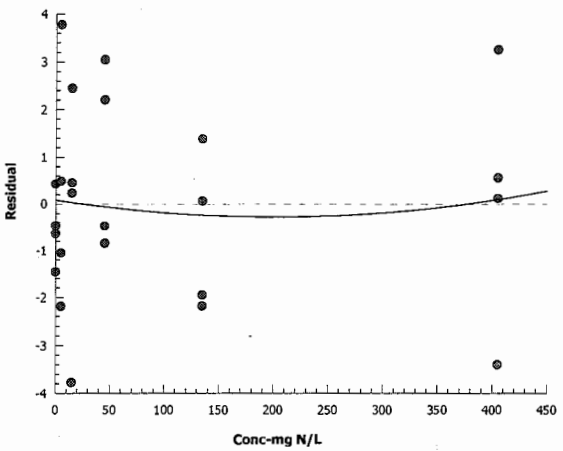
Mean Dry Weight-mg Detail

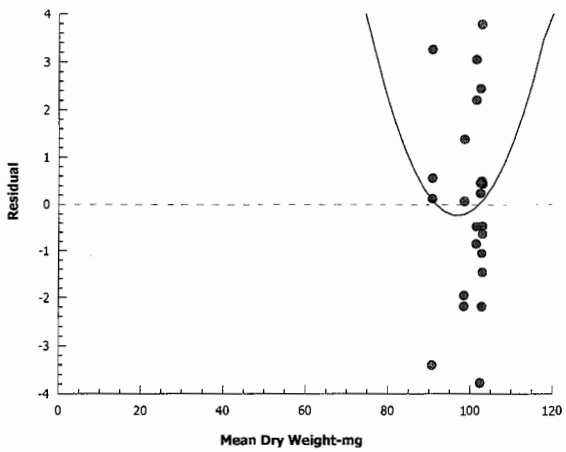
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	103.3 ✓	102.4 ✓	101.4	102.3
5		100.6 ✓	103.2	101.7	106.5 ✓
15		98.63 ✓	102.9	104.9 ✓	102.6
45		104.4	100.9 ✓	103.6	100.6
135		96.55	98.57	99.88	96.32 ✓
405		90.83	91.27	87.31 ✓	93.96

Graphics 3P Log-Logistic EV [Y=A/(1+(X/D)^C)]









CETIS Analytical Report

EAF Test

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ wet 37d

Nautilus Environmental

Analysis ID:	14-4501-1849	**Endpoint:**	Mean ~~Dry~~ Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	04 May-11 11:56	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ 37d	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Hard Synthetic Water
Ending Date:	~~26~~ 23 Jul-10 12:00	**Species:**	Oncorhynchus mykiss	**Brine:**	
Duration:	~~40d 0h~~ 37d JAB	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	06-7876-8459	**Code:**	NO3-HW-WW	**Client:**	BCMA
Sample Date:	~~28 Jul-10 10:10~~	**Material:**	NO3	**Project:**	
Receive Date:	~~29 Jul-10 10:10~~ N/A	**Source:**	BCMA		
Sample Age:	N/A JAB	**Station:**			

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	45	135	77.94		2.8%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		5	-0.4043	1.734	6	2.659	>0.05	Non-Significant Effect
		15	0.08508	1.818	6	2.788	>0.05	Non-Significant Effect
		45	0.04052	1.845	6	2.829	>0.05	Non-Significant Effect
		135*	2.965	1.859	6	2.851	<0.05	Significant Effect
		405*	7.524	1.867	6	2.863	<0.05	Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Extreme Value		1.885	2.802	1.0000	No Outliers Detected

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	454.7965	90.9593	5	19.34	<0.0001	Significant Effect
Error	84.6524	4.702911	18			
Total	539.4489	95.66222	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	4.194	15.09	0.5218	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9767	0.884	0.8272	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	102.4	102.1	102.7	101.4	103.3	0.3889	0.7778	0.76%	0.0%
5		4	103	102	104	100.6	106.5	1.295	2.59	2.52%	-0.61%
15		4	102.2	101.3	103.2	98.63	104.9	1.304	2.608	2.55%	0.13%
45		4	102.4	101.7	103.1	100.6	104.4	0.9666	1.933	1.89%	-0.01%
135		4	97.83	97.19	98.48	96.32	99.88	0.8505	1.701	1.74%	4.44%
405		4	90.84	89.8	91.88	87.31	93.96	1.367	2.733	3.01%	11.27%

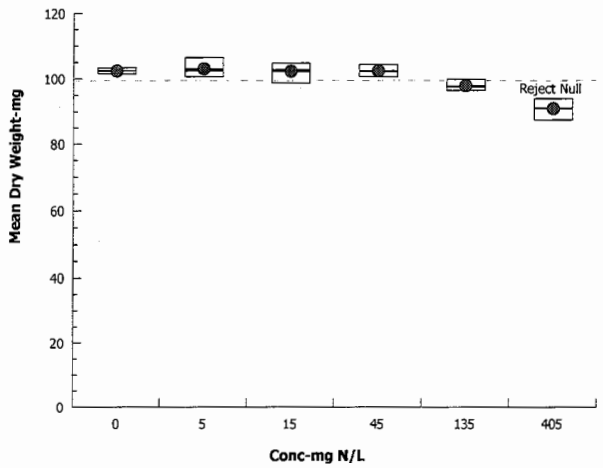
~~Fathead Minnow 7-d Larval Survival and Growth Test~~ (Wet) — Nautilus Environmental

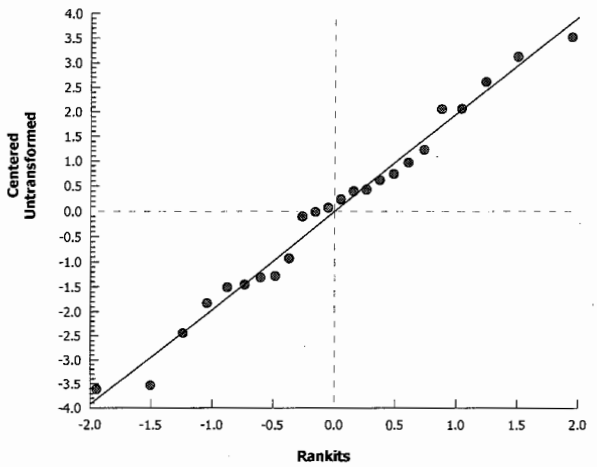
Analysis ID:	14-4501-1849	**Endpoint:**	Mean ~~Dry~~ Weight-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	04 May-11 11:56	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	103.3	102.4	101.4	102.3
5		100.6	103.2	101.7	106.5
15		98.63	102.9	104.9	102.6
45		104.4	100.9	103.6	100.6
135		96.55	98.57	99.88	96.32
405		90.83	91.27	87.31	93.96

Graphics





CETIS Analytical Report

EAF Test

Test Code: 16-9433-3757/NO3-HW-Le

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ Nautilus Environmental

Analysis ID:	09-8810-7048	**Endpoint:**	~~Mean Dry Weight-mg~~ Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	13 Aug-10 11:06	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival ~~(7d)~~ 37d	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS ~~NRM/22~~ NRM/28	**Diluent:**	~~Dechlorinated Tap Water~~
Ending Date:	~~26 May-10 12:00~~ 02 Jun-10 12:00	**Species:**	~~Pimephales promelas~~ O. mykiss	**Brine:**	Hard Water
Duration:	~~N/A~~ 37d	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	21-2139-2062	**Code:**	NO3-HW-Le	**Client:**	BCMA
Sample Date:	~~20 Jul-10 11:18~~	**Material:**	NO3	**Project:**	
Receive Date:	~~20 Jul-10 11:18~~ n/a	**Source:**	BCMA		
Sample Age:	N/A JAB	**Station:**			

Non-Linear Regression Options

Model Function	X Transform	Y Transform	Weighting Function	PTBS Function
3P Log-Logistic EV [Y=A/(1+(X/D)^C)]	None	None	Normal [W=1]	Off [Y*=Y]

Regression Summary

Iters	Log LL	AICc	Adj R2	Optimize	F Stat	Critical	P-Value	Decision(5%)
96	9.4634	-11.664	0.1312	Yes	1.4653	3.1599	0.2574	Non-Significant Lack of Fit

Point Estimates

Level	mg N/L	95% LCL	95% UCL
IC10	625.83	N/A	N/A
IC15	710.39	N/A	N/A
IC20	781.51	N/A	N/A
IC25	845.6	N/A	N/A
IC40	1022.4	N/A	N/A
IC50	1142.5	N/A	N/A

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(5%)
A	25.337	0.1103	25.108	25.567	229.7	<0.0001	Significant Parameter
C	3.6504	21.467	-40.992	48.293	0.17005	0.8666	Non-Significant Parameter
D	1142.5	6943.7	-13298	15583	0.16454	0.8709	Non-Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Model	1.045754	0.5228769	2	2.7365	0.0879	Non-Significant
Lack of Fit	0.7875813	0.2625271	3	1.4653	0.2574	Non-Significant
Pure Error	3.225	0.1791667	18			
Residual	4.012581	0.1910753	21			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(5%)
Variances	Bartlett Equality of Variance	0.84609	11.071	0.9740	Equal Variances
	Mod Levene Equality of Variance	0.066019	2.7729	0.9965	Equal Variances
Distribution	Shapiro-Wilk Normality	0.97065		0.6831	Normal Distribution

Mean Dry Weight-mg Summary

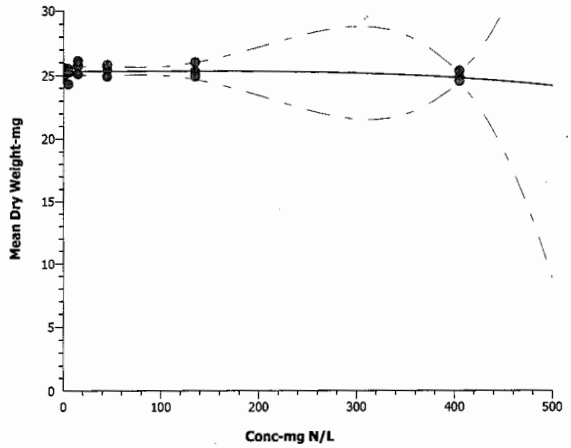
			Calculated Variate						
Conc-mg N/	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	25.225	24.9	25.6	0.060328	0.33043	1.31%	0.0%
5		4	25.075	24.3	25.5	0.097041	0.53152	2.12%	0.59%
15		4	25.675	25.1	26.1	0.076558	0.41932	1.63%	-1.78%
45		4	25.375	24.9	25.8	0.067289	0.36856	1.45%	-0.59%
135		4	25.325	24.9	26	0.087402	0.47872	1.89%	-0.4%
405		4	24.775	24.5	25.3	0.068922	0.3775	1.52%	1.78%

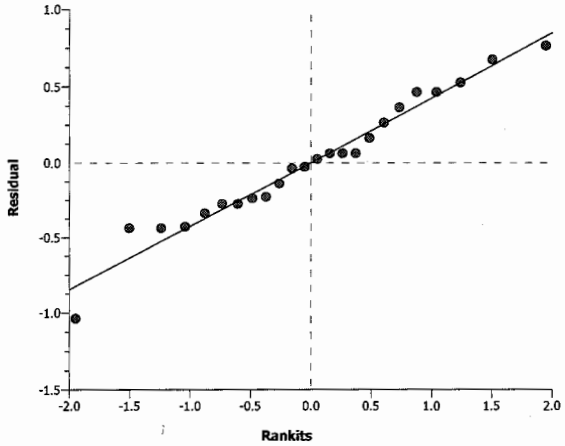
Analysis ID: 09-8810-7048 **Endpoint:** ~~Mean Dry Weight-mg~~ Length **CETIS Version:** CETISv1.7.0
Analyzed: 13 Aug-10 11:06 **Analysis:** Nonlinear Regression **Official Results:** Yes

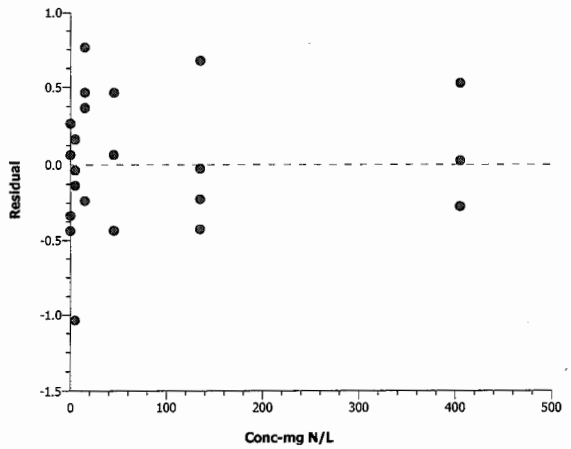
Mean Dry Weight-mg Detail

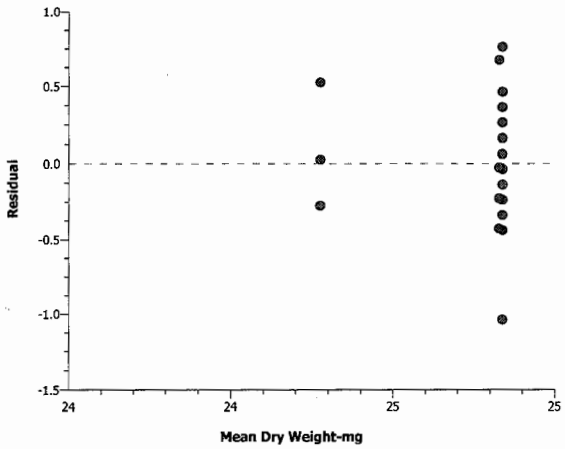
Conc-mg N/	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	25.4	25	25.6	24.9
5		25.2	25.5	24.3	25.3
15		25.8	25.7	25.1	26.1
45		25.4	25.4	25.8	24.9
135		25.3	25.1	26	24.9
405		24.8	24.5	24.5	25.3

Graphics









CETIS Analytical Report

EAF Test

Test Code: 16-9433-3757/NO3-HW-Le

~~Fathead Minnow 7-d Larval Survival and Growth Test~~ Nautilus Environmental

Analysis ID:	02-7402-5006	**Endpoint:**	~~Mean Dry Weight-mg~~ Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	28 Sep-10 10:45	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	18-4382-9792	**Test Type:**	Growth-Survival (7d) 37d JAB	**Analyst:**	
Start Date:	26 May-10 12:00	**Protocol:**	EC/EPS 1/RM/22 JAB 28	**Diluent:**	~~Dechlorinated Tap Water~~
Ending Date:	~~26 May-10 12:00~~ 02 Jul-10 12:00	**Species:**	~~Pimephales promelas~~ O. mykiss	**Brine:**	Hard Water
Duration:	~~N/A~~ 37d	**Source:**	Fraser Valley Trout Hatchery	**Age:**	
Sample ID:	21-2139-2062	**Code:**	NO3-HW-Le	**Client:**	BCMA
Sample Date:	~~20 Jul-10 11:18~~	**Material:**	NO3	**Project:**	
Receive Date:	~~20 Jul-10 11:18~~ n/a	**Source:**	BCMA		
Sample Age:	N/A JAB	**Station:**			

Data Transform	Zeta	Alt Hyp	Monte Carlo	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C > T	Not Run	405	>405	N/A		2.22%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	MSD	P-Value	Decision(5%)
Negative Control		5	0.50116	1.734	0.51899	>0.05	Non-Significant Effect
		15	-0.50116	1.818	0.54414	>0.05	Non-Significant Effect
		45	-0.50116	1.845	0.55222	>0.05	Non-Significant Effect
		135	-0.33411	1.859	0.55641	>0.05	Non-Significant Effect
		405	1.5035	1.867	0.5588	>0.05	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(5%)
Between	1.833335	0.366667	5	2.0465	0.1203	Non-Significant Effect
Error	3.225	0.1791667	18			
Total	5.058335	0.5458337	23			

ANOVA Assumptions

Attribute	Test	Test Stat	Critical	P-Value	Decision(1%)
Variances	Bartlett Equality of Variance	0.84609	15.086	0.9740	Equal Variances
Distribution	Shapiro-Wilk Normality	0.97753		0.8463	Normal Distribution

Mean Dry Weight-mg Summary

Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	Diff%
0	Negative Control	4	25.225	25.099	25.351	24.9	25.6	0.061359	0.33043	1.31%	0.0%
5		4	25.075	24.873	25.277	24.3	25.5	0.0987	0.53152	2.12%	0.59%
15		4	25.675	25.515	25.835	25.1	26.1	0.077866	0.41932	1.63%	-1.78%
45		4	25.375	25.235	25.515	24.9	25.8	0.06844	0.36856	1.45%	-0.59%
135		4	25.325	25.143	25.507	24.9	26	0.088896	0.47872	1.89%	-0.4%
405		4	24.775	24.631	24.919	24.5	25.3	0.0701	0.3775	1.52%	1.78%

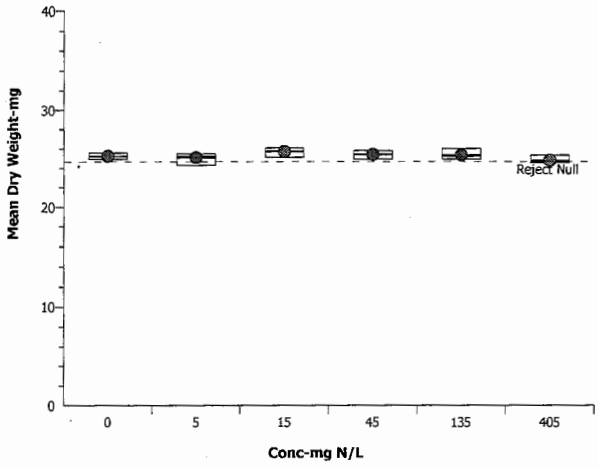
~~Fathead Minnow 7-d Larval Survival and Growth Test~~ Nautilus Environmental

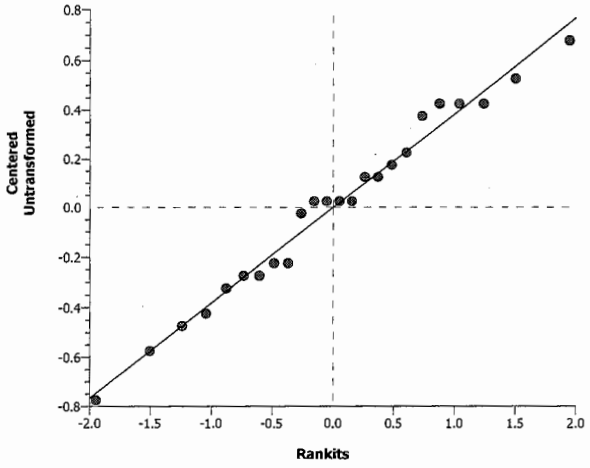
Analysis ID:	02-7402-5006	**Endpoint:**	~~Mean Dry Weight-mg~~ Length	**CETIS Version:**	CETISv1.7.0
Analyzed:	28 Sep-10 10:45	**Analysis:**	Parametric-Control vs Ord. Treatments	**Official Results:**	Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	25.4	25	25.6	24.9
5		25.2	25.5	24.3	25.3
15		25.8	25.7	25.1	26.1
45		25.4	25.4	25.8	24.9
135		25.3	25.1	26	24.9
405		24.8	24.5	24.5	25.3

Graphics





Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: Control Hard Water
Work Order #: n/a

Start Date & Time: May 26/10 @1600h
Stop Date & Time: July 2/10 @ 1000 h
Test Species: *Oncorhynchus mykiss*

Treatment: Control HW	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.5	13.5		13.5		13.5	14.0	13.5		14.0
DO (mg/L)	10.5	10.6		10.4	10.2	10.1		10.2		10.1	10.2	10.3		10.3
pH	8.1	8.1		8.1	8.2	8.2		8.1		8.2	8.3	8.1		8.0
Cond. (µS/cm)	565			564						560				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		

Treatment: Control HW	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	13.5	13.5		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.1		10.0	10.4	10.2		10.2		10.0	9.8	9.7		9.8
pH	8.0	8.1		8.0	8.2	8.2		8.2		8.0	8.2	8.1		8.1
Cond. (µS/cm)	560			549						569				
Initials	JAB	SKM		SKM		~		~		SKM		JAB		SKM

Treatment: Control HW	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.0		10.3	10.3	10.2		10.3		9.8	9.9	10.3		9.9
pH	8.2	8.0		8.1	8.2	8.2		8.2		8.0	8.2	8.2		8.1
Cond. (µS/cm)	509			509						580				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: Control HW	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.0		10.0	10.0	10.2		10.3		10.0	10.1	10.3		10.0
pH	8.2	8.0		8.0	8.1	7.9		8.0		8.0	8.0	7.9		7.8
Cond. (µS/cm)	568			580						573				
Initials	JAB	JAB		SKM		~		~		SKM		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control-1	Control-2		
Hardness*	170	see attached		
Alkalinity*	118			

* mg/L as CaCO3

Analysts: JAB, AWD, SKM
Reviewed by: JGL
Date reviewed: May 12/11

Sample Description:

Comments: Batches of control water. See Attached Hardness/Alkalinity datasheet

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: HW Control
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
Control HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.2		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	9.9		10.2	10.2	10.3		10.2		10.2	10.2	10.3		10.0
pH	7.9	7.8		7.8	7.9	8.1		8.1		7.7	8.0	8.0		7.9
Cond. (µS/cm)	585			574						581				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
Control HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.1	10.0												
pH	8.1	8.1												
Cond. (µS/cm)	575													
Initials	JAB	JJT												

Treatment	Days													
	44	45		46		47		48		49		50		51
Control HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
Control HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM
Reviewed by: JGL
Date reviewed: May 9, 2011

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 5mg/L HW
Work Order #: n/a

Start Date & Time: May 26/10@1600h
Stop Date & Time: July 2/10@1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 5mg N/L HW	Days													
	0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.8		13.0	13.5	13.5		13.5		13.5	14.0	13.5		14.0
DO (mg/L)	10.4	10.6		10.3	10.2	10.1		10.3		10.1	10.2	10.3		10.3
pH	8.1	8.1		8.1	8.1	8.2		8.2		8.2	8.2	8.1		8.0
Cond. (µS/cm)	603			601						603				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		~

Treatment: 5 HW	Days													
	7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.0		13.5	13.5	13.5		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.3		10.1	10.1	10.3		10.2		10.0	10.1	9.7		9.8
pH	8.0	8.2		8.0	8.1	8.2		8.2		7.9	8.1	8.1		8.1
Cond. (µS/cm)	597			589						612				
Initials	JAB	JAB		SKM		~		~		SKM		JAB		SKM

Treatment: 5 HW	Days													
	14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.0		10.2	10.3	10.3		10.3		10.0	10.2	10.3		9.9
pH	8.1	8.1		8.1	8.1	8.2		8.2		8.0	8.2	8.1		8.1
Cond. (µS/cm)	561			551						625				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: 5 HW	Days													
	21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	9.9		10.0	10.2	10.2		10.3		10.0	10.2	10.3		10.3
pH	8.2	8.0		8.0	8.2	7.9		8.0		7.9	8.0	7.8		7.8
Cond. (µS/cm)	606			622						612				
Initials	JAB	JAB		SKM		~		~		JAB		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM
Reviewed by: JOL
Date reviewed: May 9/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 5 mg/L HW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
5mg/L HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.2		14.2		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	9.9		9.8	10.2	10.3		12.2		10.0	10.2	10.4		9.9
pH	7.9	7.7		7.7	7.9	8.1		8.1		7.7	8.79	8.0		7.9
Cond. (µS/cm)	622			620						6.28				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
5 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.1	10.0												
pH	8.1	8.0												
Cond. (µS/cm)	618													
Initials	JAB	JJT												

Treatment	Days													
	44	45		46		47		48		49		50		51
5 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
5 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SLM
Reviewed by: JGL
Date reviewed: May 9/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 15 mg/L HW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 15mg N/L HW	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.5	13.5		13.5		13.5	14.0	13.5		14.0
DO (mg/L)	10.4	10.6		10.4	10.2	10.2		10.2		10.1	10.2	10.3		10.3
pH	8.1	8.1		8.0	8.1	8.1		8.2		8.1	8.2	8.0		7.9
Cond. (µS/cm)	681			674						690				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		

Treatment: 15 HW	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	13.5	13.5		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	9.9	10.3		10.1	10.2	10.2		10.2		9.9	10.1	9.7		9.9
pH	8.0	8.2		SKM 8.79	8.1	8.2		8.2		SKM 8.79	8.1	8.1		8.0
Cond. (µS/cm)	670			671						697				
Initials	JAB	SKM		SKM		~		~		SKM		JAB		SKM

Treatment: 15 HW	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	9.9		10.3	10.3	10.3		10.2		9.9	10.1	10.4		9.8
pH	8.1	8.1		8.0	8.1	8.1		8.2		7.9	8.2	8.2		8.1
Cond. (µS/cm)	656			644						703				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: 15 HW	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.0		9.9	10.2	10.2		10.2		9.8	10.1	10.2		10.3
pH	8.2	8.0		8.0	8.1	7.9		7.9		7.9	8.0	7.8		7.8
Cond. (µS/cm)	683			707						694				
Initials	JAB	JAB		SKM		~		~		JAB		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: JAB

Date reviewed: May 9/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 15 mg/L HW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
15mg/L HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.2		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	10.1		9.8	10.2	10.3		10.2		10.3	10.2	10.2		10.1
pH	7.9	8.0		7.7	7.9	8.0		8.1		7.7	7.9	8.0		7.9
Cond. (µS/cm)	705			709						717				
Initials	JAB	JAB		JAB		^		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
15 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.1	9.9												
pH	8.1	8.2												
Cond. (µS/cm)	703													
Initials	JAB	JJ												

Treatment	Days													
	44	45		46		47		48		49		50		51
15 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
15 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKH
Reviewed by: JGA
Date reviewed: May 9/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 45 mg/L HW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 45 mg N/L HW	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.5	13.5		13.5		13.5	14.0	13.5		14.0
DO (mg/L)	10.4	10.6		10.3	10.3	10.1		10.2		10.2	10.2	10.3		10.3
pH	8.1	8.1		8.0	8.1	8.1		8.1		8.1	8.2	8.0		7.9
Cond. (µS/cm)	902			900						933				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		~

Treatment: 45 HW	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	13.5	13.5		14.3		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.3		10.2	10.2	10.3		10.2		9.9	10.0	9.7		9.9
pH	8.0	8.1		8.0	8.1	8.2		8.1		7.8	8.1	8.1		8.0
Cond. (µS/cm)	890			900						940				
Initials	JAB	SKM		SKM		~		~		SKM		JAB		SKM

Treatment: 45 HW	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.2		10.2	10.3	10.3		10.2		10.0	10.0	10.3		9.9
pH	8.1	8.2		8.1	8.1	8.1		8.1		7.9	8.1	8.1		8.1
Cond. (µS/cm)	919			887						932				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: 45 HW	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.3		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.0		10.1	10.2	10.2		10.2		9.9	10.2	10.2		10.2
pH	8.2	8.0		8.0	8.1	7.9		7.9		7.9	8.0	7.8		7.8
Cond. (µS/cm)	901			941						925				
Initials	JAB	JAB		SKM		~		~		JAB		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: JAB

Date reviewed: May 9/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 45 mg/L HW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
45 mg/L HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.2		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	10.2		10.0	10.2	10.2		10.2		10.3	10.2	10.4		10.1
pH	7.9	7.9		7.7	7.9	8.2		8.2		7.7	7.9	8.0		7.9
Cond. (µS/cm)	929			955						974				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
45 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.1	9.9												
pH	8.1	8.2												
Cond. (µS/cm)	943													
Initials	JAB	JJ												

Treatment	Days													
	44	45		46		47		48		49		50		51
45 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
45 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, S&H
Reviewed by: JGL
Date reviewed: May 9/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 135 mg/L HW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 135 mg N/L HW	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.5	13.5		13.5		13.5	14.0	13.5		14.0
DO (mg/L)	10.4	10.6		10.4	10.2	10.1		10.2		10.2	10.2	10.3		10.3
pH	8.1	8.1		8.0	8.1	8.0		8.1		8.1	8.1	7.9		7.9
Cond. (µS/cm)	1584			1583						1616				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		QR

Treatment: 135 HW	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	13.5	13.5		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	9.8	10.3		10.1	10.2	10.2		10.2		10.0	10.0	9.8		9.9
pH	8.0	8.1		7.9	8.0	8.1		8.1		7.8	8.1	8.1		7.9
Cond. (µS/cm)	1536			1567						1635				
Initials	JAB	SKM		JAB		~		~		SKM		JAB		SKM

Treatment: 135 HW	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.1		10.2	10.3	10.3		10.2		10.0	10.1	10.4		9.9
pH	8.1	8.1		8.0	8.1	8.1		8.1		7.9	8.1	8.1		8.0
Cond. (µS/cm)	1671			1608						1668				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: 135 HW	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	10.0		10.1	10.2	10.2		10.2		10.0	10.1	10.2		10.0
pH	8.2	7.9		8.0	8.1	7.8		7.9		7.9	7.9	7.8		7.8
Cond. (µS/cm)	1602			1653						1600				
Initials	JAB	JAB		SKM		~		~		JAB		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM
Reviewed by: JBL
Date reviewed: May 9/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 135 mg/L HW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
135mg/L HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.2		14.2		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	10.2		9.9	10.2	10.2		10.3		10.2	10.2	10.1		10.0
pH	7.9	7.9		7.7	7.9	8.2		8.1		7.7	7.9	8.0		7.8
Cond. (µS/cm)	1639			1659						1625				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
135 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.0	9.8												
pH	8.1	8.1												
Cond. (µS/cm)	1654													
Initials	JAB	JJ												

Treatment	Days													
	44	45		46		47		48		49		50		51
135 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
135 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SFM
Reviewed by: JGH
Date reviewed: May 9/11

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 405 mg/L HW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment: 405 mg N/L HW	Days 0	1		2		3		4		5		6		7
	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.0	13.0		13.0	13.5	13.5		13.5		13.5	14.0	13.5		14.0
DO (mg/L)	10.2	10.6		10.3	10.2	10.1		10.2		10.6	10.2	10.2		10.3
pH	8.0	8.0		8.0	8.0	8.0		8.0		8.1	8.1	7.9		7.9
Cond. (µS/cm)	3580			3530						3520				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		~

Treatment: 405 HW	Days 7	8		9		10		11		12		13		14
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		13.5	13.5	13.5		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.1	10.3		10.1	10.3	10.3		10.2		9.9	9.9	9.8		9.9
pH	7.9	8.0		7.9	8.0	8.1		8.1		7.8	8.0	8.0		7.9
Cond. (µS/cm)	3380			3510						3630				
Initials	JAB	SKM		SKM		~		~		SKM		JAB		SKM

Treatment: 405 HW	Days 14	15		16		17		18		19		20		21
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		13.5	14.0	13.5		~~13.5~~ 13.5 SKM
DO (mg/L)	10.0	10.0		10.2	10.3	10.2		10.2		9.9	10.2	10.4		9.8
pH	8.0	8.0		8.1	8.1	8.0		8.0		7.8	8.1	8.1		8.0
Cond. (µS/cm)	3750			3730						3730				
Initials	SKM	SKM		~		~		~		SKM		SKM		SKM

Treatment: 405 HW	Days 21	22		23		24		25		26		27		28
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	13.5		14.0	14.0	14.0		14.0		13.5	14.0	13.5		13.5
DO (mg/L)	10.0	9.9		10.1	10.2	10.2		10.3		9.9	10.1	10.2		10.1
pH	8.1	7.9		8.0	8.0	7.8		7.9		7.8	7.9	7.7		7.7
Cond. (µS/cm)	3590			3720						3630				
Initials	JAB	JAB		SKM		~		~		JAB		JAB		JAB

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: JGL

Date reviewed: May 9/4

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: n/a
Sample ID: 405 mg/L HW
Work Order #: n/a

Start Date & Time: May 26/10 @ 1600h
Stop Date & Time: July 2/10 @ 1000h
Test Species: *Oncorhynchus mykiss*

Treatment	Days													
	29	30		31		32		33		34		35		36
405 mg/L HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	13.5	13.5		13.5	14.0	14.0		14.0		14.0	14.5	13.5		13.5
DO (mg/L)	10.2	10.3		10.1	10.2	10.2		10.3		10.3	10.2	10.1		10.0
pH	7.9	7.9		7.7	7.8	8.0		8.0		7.7	7.9	8.0		7.8
Cond. (µS/cm)	3690			3680						3890				
Initials	JAB	JAB		JAB		~		~		JAB		JAB		JAB

Treatment	Days													
	36	37		38		39		40		41		42		43
405 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)	14.0	14.0												
DO (mg/L)	10.1	9.9												
pH	8.1	8.1												
Cond. (µS/cm)	3670													
Initials	JAB	JJ												

Treatment	Days													
	44	45		46		47		48		49		50		51
405 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	51	52		53		54		55		56		57		58
405 HW	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts: JAB, AWD, SKM

Reviewed by: JOL

Date reviewed: May 9/4

Sample Description:

Comments:

Client: MABC

W.O.#: n/a

Hardness and Alkalinity Datasheet

	Alkalinity						Hardness			
Sample ID	Sample Date	Sample Volume (mL)	(mL) 0.02N HCL/H_2SO_4 used to pH 4.5	(mL) of 0.02N HCL/H_2SO_4 used to pH 4.2	Total Alkalinity ($mg/LCaCO_3$)		Sample Volume (mL)	Volume of 0.01M EDTA Used (mL)	Total Hardness ($mg/L\ CaCO_3$)	Technician
HW-Dilution	05/26/10	50	6.0	6.1	118		50	8.5	170	SKM
MHW-Dilution	05/26/10	50	3.2	3.3	62		50	4.2	84	SKM
SW-Dilution	05/26/10	50	1.8	1.9	34		50	2.3	46	SKM
Dechlor-Dilution	05/26/10	50	0.6	0.7	10		50	0.3	6	SKM
HW-Dilution	06/03/10	50	6.0	6.1	118		50	9.3	186	SKM
MHW-Dilution	06/03/10	50	3.3	3.4	64		50	5.1	102	SKM
SW-Dilution	06/03/10	50	2.0	2.1	38		50	2.8	56	SKM
Dechlor-Dilution	06/03/10	50	0.5	0.6	8		50	0.6	12	SKM
HW-Dilution	06/14/10	50	5.8	5.9	2 114 SKM		50	8.9	178	SKM
MHW-Dilution	06/14/10	50	JAB ~~3.1~~ 3.3	JAB ~~3.3~~ 3.4	JAB ~~70~~ 64		50	4.5	90	SKM
SW-Dilution	06/14/10	50	JAB ~~1.6~~ 1.5	JAB ~~1.6~~ ~~1.7~~ 1.5 SKM	JAB ~~34~~ 28		50	25	50	SKM
Dechlor-Dilution	06/14/10	50	0.4	0.5	6		50	0.5	10	SKM
HW-Dilution	06/23/10	50	5.8	5.9	114		50	8.5	170	JAB
MHW-Dilution	06/23/10	50	3.1	3.2	60		50	4.7	94	JAB
SW-Dilution	06/23/10	50	1.7	1.8	32		50	2.5	50	JAB
Dechlor-Dilution	06/23/10	50	0.5	0.6	8		50	0.5	10	JAB

Notes:

Reviewed by: JGu

Date Reviewed: May 4/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW Control A

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3) (a)	Initials	Total Wt Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.0997	29	JAB
2	27					
3	27					
4	26			1.29303	1.81037	
5	26					
6	26					
7	25					
8	25					
9	24					
10	27					
11	25					
12	25					
13	25					
14	25					
15	25					
16	24					
17	25					
18	25					
19	26					
20	27					
21	26					
22	24					
23	26					
24	20	3				
25	25	0				
26	26					
27	26					
28	26					
29	27					
30						

HW CA

(a) - 0: normal swim-up fish (normal)
1: small yolk sac (abnormal)
2: yolk sac (abnormal)
3: large yolk sac (abnormal)

JGL
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW Control B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.971	29	JAB
2	25	1				
3	25	0		1.29249	1.83242	
4	24	1				
5	25	0				
6	26	0				
7	25	1				
8	23	1				
9	24	0				
10	25	1				
11	25	0				
12	25	1				
13	25	0				
14	26	1				
15	26	0				
16	25	0				
17	24	0		HW ctrl B		
18	24	0				
19	27	0				
20	26	0				
21	25	1				
22	25	0				
23	26	0				
24	26	0				
25	26	1				
26	24	1				
27	24	1				
28	23	0				
29	26	1	✓			
30						

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JAB May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW Control C

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	1	JAB	2.942	29	JAB
2	27	0				
3	25	0				
4	27	0		1.28926 1.82678		
5	26	0				
6	26	0				
7	25	0				
8	27	0				
9	26	0				
10	26	0				
11	26	0				
12	26	0				
13	24	0				
14	24	0				
15	26	0				
16	24	1				
17	26	0				
18	26	0				
19	24	0				
20	25	1				
21	26	0				
22	26	1				
23	25	0				
24	25	0				
25	25	1				
26	26	0				
27	26	0				
28	26	0				
29	26	0	↓			
30						

HW Control C

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JGh May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW Control D

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.966	29	JAB
2	25					
3	26					
4	25			1.29903 1.82696		
5	25					
6	25					
7	25					
8	24	1				
9	24	1				
10	26	0				
11	26	~~0~~ SUM 0				
12	25					
13	25					
14	24					
15	24					
16	24	1				
17	23	1				
18	25	0				
19	26					
20	24					
21	25					
22	25					
23	25					
24	23	1				
25	26	0				
26	25					
27	25					
28	25					
29	26					
30						

HW Ctrl D

4

JGK May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 5A

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	27	0	JAB	2.715	27	JAB
2	25	0				
3	24	0				
4	26	0		1.28941	1.76720	
5	24	0				
6	25	0				
7	25	0				
8	26	0				
9	25	0				
10	25	0				
11	25	0				
12	24	1				
13	25	0				
14	25	0				
15	27	0		HW 5A		
16	25	0				
17	26	1				
18	25	0				
19	25	1				
20	25	0				
21	27	0				
22	25	1				
23	25	1				
24	26	0				
25	24	1				
26	24	1				
27	25	0				
28						
29						
30						

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JGH May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 5B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	3.097	30	JAB
2	24	1				
3	25	0				
4	26	0		1.29265	1.84463	
5	24	0				
6	26	0				
7	25	0				
8	25	0				
9	25	0				
10	25	0				
11	25	0				
12	26	0				
13	27	0				
14	26	0				
15	22	1				
16	26	0				
17	25					
18	25					
19	26					
20	25					
21	27					
22	27					
23	26					
24	25					
25	27					
26	26					
27	26	0				
28	25	1				
29	26	0				
30	25	0				

HW 5B

3

JAB May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 5C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	24	1	JAB	2.949	29	JAB
2	23	1				
3	25	0				
4	24			1.29752 1.84882		
5	25					
6	24	1				
7	25	0				
8	24	1				
9	24	1				
10	22	2				
11	25	1				
12	24	1				
13	24	1				
14	26	0				
15	25	0				
16	25	0				
17	24	0				
18	24	0				
19	26	0				
20	25	0				
21	23	1				
22	21	2				
23	24	1				
24	24	0				
25	25	0				
26	26	0				
27	25	0				
28	25	0				
29	25	0				
30						

HW 5C

A skeletal 12 ~~13~~ JAB

JAB May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW SD

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.876	27	JAB
2	26	0				
3	21	3				
4	25	0				
5	26	0				
6	26	0				
7	26	0				
8	25	0				
9	26	0				
10	25	0				
11	25	0				
12	25	1				
13	25	0				
14	25					
15	24					
16	26					
17	25					
18	25					
19	26					
20	26					
21	26					
22	25					
23	27					
24	25					
25	25					
26	26					
27	26					
28						
29						
30						

1.29744 1.78483

HW SD

2

JGL May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 15 A

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	27	0	JAB	2.959	30	JAB
2	26	0				
3	26	0				
4	27	0		1.29039 1.79579		
5	27	1				
6	24	0				
7	24					
8	27					
9	27					
10	26					
11	27					
12	26					
13	27					
14	27					
15	25					
16	25					
17	25					
18	26					
19	26					
20	20					
21	27			HW 15 A		
22	27					
23	25					
24	25					
25	25					
26	27					
27	26					
28	25					
29	27					
30	26					

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JGW May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 15B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.983	29	JAB
2	26					
3	25			1.29224	1.80134	
4	26					
5	27					
6	25					
7	26					
8	25					
9	27					
10	25					
11	25					
12	26					
13	25					
14	27					
15	27					
16	25					
17	26					
18	25					
19	27					
20	26					
21	26					
22	27					
23	25					
24	26					
25	25					
26	25					
27	25					
28	24					
29	25					
30						

HW 15B

0

JAB May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 15C

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Test Wt Organism Weight (g)	No. weighed	Initials
1	26	0	JKB	2.936	28	JKB
2	26					
3	26					
4	25					
5	26			1.29460	1.78932	
6	23	1				
7	25					
8	26					
9	25					
10	25					
11	25					
12	24					
13	25					
14	24					
15	23					
16	25					
17	24					
18	25					
19	27					
20	25					
21	27					
22	25					
23	26					
24	28					
25	25					
26	25					
27	24					
28	25					
29						
30						

HW 15C

1

JOU May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 15D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	24	0	JAB	2.874	28	JAB
2	26					
3	27					
4	26					
5	27					
6	27					
7	26					
8	28					
9	25					
10	26					
11	27					
12	27					
13	28					
14	26					
15	26					
16	25					
17	24					
18	27					
19	26					
20	27					
21	25					
22	27					
23	26					
24	26					
25	26					
26	27					
27	25					
28	25					
29						
30						

1.29152 1.77854

HW 15D

0

JGL may 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 45A

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	3.029	29	JAB
2	25					
3	24					
4	27					
5	25					
6	25					
7	25					
8	25					
9	24					
10	26					
11	25					
12	25					
13	24					
14	26					
15	25					
16	26					
17	26					
18	27					
19	27					
20	25					
21	26					
22	26					
23	27					
24	25					
25	25					
26	25					
27	25					
28	25					
29	25					
30						

130116 1.79064

HW 45A

O

JGL May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 45B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.927	29	JAB
2	25					
3	26					
4	26					
5	27					
6	26					
7	25					
8	25					
9	26					
10	24					
11	24					
12	25					
13	27					
14	25					
15	25					
16	27					
17	25					
18	26					
19	25					
20	26					
21	25					
22	25					
23	25					
24	26					
25	25					
26	26					
27	25					
28	24					
29	27	✓	✓			
30						

0

1.28957 1.77606

HW45B

JGW
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID HW 45C

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.901	28	JAB
2	25	0				
3	26	0				
4	26					
5	26			1.28974 1.79667		
6	26					
7	26					
8	26					
9	26					
10	27					
11	26					
12	23	2				
13	26	0				
14	26					
15	27 6 vun					
16	27					
17	26					
18	26					
19	25					
20	26	0				
21	25	1				
22	26	0				
23	25					
24	25					
25	27					
26	26					
27	26					
28	25					
29						
30						

HW 45C

2

JGL May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 45D

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.715	27	JAB
2	25					
3	26					
4	24					
5	25					
6	25					
7	27					
8	24					
9	26					
10	25					
11	25					
12	24					
13	24					
14	25					
15	25					
16	24					
17	25					
18	26					
19	24					
20	26					
21	24					
22	25					
23	26					
24	25					
25	24					
26	25					
27	24					
28						
29						
30						

0

1.29064 1.73789

HW 45D

JGE
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 135A

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	26	0	JAB	2.800	29	JAB
2	26					
3	25					
4	25					
5	26					
6	25					
7	26					
8	25					
9	26					
10	25					
11	26					
12	25					
13	27					
14	25					
15	25					
16	25					
17	24					
18	24					
19	25					
20	26					
21	27					
22	25					
23	25					
24	26					
25	~~27~~ 25 sum					
26	22					
27	26					
28	25					
29	25	↓	↓			
30						

0

1.29930 1.77677

HW 135A

Jde
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW B5 B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	23	0	JAB	2.760	28	JAB
2	27					
3	25					
4	25					
5	25			1.29779	1.72142	
6	25					
7	26					
8	26					
9	26					
10	24					
11	25					
12	27					
13	25					
14	25					
15	25					
16	26					
17	25	0				
18	20	3				
19	26	0				
20	25	0				
21	25					
22	25					
23	25					
24	24					
25	26					
26	26					
27	27					
28	25					
29						
30						

1

HW B5 B

JGL May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW B5C

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	27	0	JAB	2.597	26	JAB
2	27					
3	26			1.28596 1.72248		
4	25					
5	26					
6	26					
7	27					
8	25					
9	25					
10	26					
11	26					
12	25					
13	25					
14	26					
15	26					
16	28					
17	26					
18	26					
19	25					
20	27					
21	25					
22	27					
23	25					
24	26					
25	26					
26	26	↓	↓			
27						
28						
29						
30						

HW 135 C

0

JAB
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW BSD

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	1	JAB	2.697	28	JAB
2	25	0				
3	26			1.29537	1.76177	
4	26					
5	24					
6	25					
7	25					
8	24					
9	25					
10	26					
11	23					
12	24					
13	25					
14	24					
15	26					
16	26					
17	24					
18	25					
19	26					
20	24					
21	24					
22	26					
23	25					
24	24					
25	25					
26	26					
27	26					
28	24					
29						
30						

HW 135 D

1

JGL May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 405A

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.634	29	JAB
2	25					
3	24					
4	24			1.2944 ~~5gm~~ 39		1.77474
5	25					
6	25					
7	24					
8	25					
9	25					
10	24					
11	25					
12	25					
13	25					
14	23					HW 405A
15	25					
16	24					
17	25					
18	24					
19	25					
20	26					
21	25					
22	25					
23	26					
24	25					
25	25					
26	25					
27	25					
28	25					
29	25	↓	↓			
30						

0

JAB May 9/4

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 405B

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.738	30	JAB
2	26					
3	25					
4	24					
5	24			1.29896 1.79160		
6	25					
7	24					
8	26					
9	24					
10	25					
11	25					
12	25					
13	23					
14	25					
15	25					
16	24					
17	25					
18	24					
19	23					
20	25					
21	24					
22	25					
23	26					
24	23					
25	23					
26	24					
27	24					
28	25					
29	24					
30	25	↓	↓			
		0				

HW 405B

JAB
May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 40SC

Start Date: May 26/10
Termination Date: July 2/10
Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.0270	26	JAB
2	24					
3	24					
4	23					
5	25			1.29537	1.70671	
6	25					
7	23					
8	25					
9	24					
10	24					
11	24					
12	25					
13	25					
14	24					
15	25					
16	24					
17	25					
18	25					
19	24					
20	25					
21	26					
22	24					
23	26					
24	24	1	JAB			
25	24	0				
26	24	0				
27						
28						
29						
30						

1

HW 40SC

JAB May 9/11

Nitrate-Hardness Relationship RBT Study

Length, Weight and Growth

Sample ID: HW 405D

Start Date: May 26/10

Termination Date: July 2/10

Test Organism: O. mykiss

	Length (mm)	Growth (0-3)	Initials	Total Wet Organism Weight (g)	No. weighed	Initials
1	25	0	JAB	2.537	27	JAB
2	25					
3	24					
4	25			1.29121	JAB ~~1.77845~~ 1.73986	
5	26					
6	25					
7	26					
8	26					
9	25					
10	25					
11	25					
12	25					
13	25					
14	26					
15	25					
16	26					
17	25					
18	26					
19	26					
20	25					
21	25					
22	25					
23	25					
24	26					
25	25					
26	25					
27	25					
28						
29						
30						

0

JAB May 9/11

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: Hard Water
Work Order #: n/a
Start Date & Time: May 26/10
Stop Date: July 2/10
Test Species: Oncorhynchus ~~ct~~ mykiss

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		1	2	3	4	5	6	7	8	9	10	11	
Control	1		0			0		0		0			0
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0		0		0			0
5	1		0			0		0		0			0
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0		0		0 1			1
15	1		0			0		1		0			1
	2		0			1		0		0			1
	3		0			0		0		0			0
	4		0			1		0		0			1
45	1		0			1		0		0			1
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			1		0		0			1
135	1		0			0		0		6			0
	2		0			JAB 32		0		0			2
	3		0			1		0		0			1
	4		0			0		0		0			0
405	1		0			0		0		0			0
	2		0			0		0		0			0
	3		0			0		0		0			0
	4		0			0		0		6			0
	1												
	2												
	3												
	4												
	1												
	2												
	3												
	4												
Tech Initials			JAB			JAB		JAB		JAB			

Comments: _____

Reviewed by: JAB **Date reviewed:** May 9/4

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: HW
Work Order #: n/a
Start Date & Time: May 26/10
Stop Date: July 2/10
Test Species: *Oncorhynchus mykiss*

Treatments mg N/L	Rep	Day of Test - No. of Mortalities											
		12	13	14	~~15~~ 16	16	17	18	19	20	21	22	
Control	1	0		0	0				0		0		0
	2	0	~~0~~ JAB	0	0				1		0		1
	3	0	~~0~~ JAB	0	0				0		0		0
	4	0		0	0				0		0		0
5	1	0		0	0				0		0		0
	2	0		0	0				0		0		0
	3	0		0	0				0		1		1
	4	1		0	0				0		0		2
15	1	0		0	0				0		0		1
	2	0		0	0				0		0		1
	3	0		0	0				0		1		1
	4	0		0	0				0		0		1
45	1	0		0	0				0		0		1
	2	0		0	0				0		0		0
	3	1		0	0				0		2		3
	4	0		0	1				0		0		2
135	1	1		0	0				0		0		1
	2	0		0	0				0		0		0
	3	0		1	0				0		0		1
	4	1		0	0				0		1		2
405	1	0		0	0				1		0		1
	2	0		0	0				0		0		0
	3	0		0	0				2		0		2
	4	0		0	?				2		0		2
	1												
	2												
	3												
	4												
	1												
	2												
	3												
	4												
Tech Initials		JAB		JAB	~				JAB		JAB		

Comments: _____

Reviewed by: JGL **Date reviewed:** May 9/4

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Start Date & Time: May 26/10
Sample ID: Hard Water
Stop Date: July 2/10
Work Order #: N/a
Test Species: O.mykiss

Treatments mg N/L	Rep	Day of Test - No. of Mortalities										
		22	23	24	25	26	27	28	~~29~~ Unfert Emb	30	31	32
Control	1		0			0		0	0	0		
	2		0			0		0	0	0		
	3		0			1[a]		0	0	0		
	4		0			0		0	0	1[a]		
5	1		0			1		1[a]	0	0		
	2		0			0		0	0	0		
	3		0			0		0	0	0		
	4		0			0		0	1	0		
15	1		0			0		0	0	0		
	2		0			0		0	0	0		
	3		0			0		0	0	0		
	4		0			0		0	0	0		
45	1		0			0		0	0	0		
	2		0			0		0	0	0		
	3		0			0		0	0	0		
	4		0			0		0	1	0		
135	1		0			0		0	0	0		
	2		0			0		0	0	0		
	3		0			0		0	0	1		
	4		0			0		0	0	0		
405	1		0			0		0	0	0		
	2		0			0		0	0	0		
	3		0		~~2[a]~~	~~0~~ 2[a]		0	0	0		
	4		0			0		1[a]	0	0		
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials			JAB			JAB		JAB	JAB	JAB		

0 1 1 1 2 0 1 3 1 1 1 1 1 1 0 3 3 1 0 1 2 1 0 4 3

Comments: a-alevin

Reviewed by: JGh **Date reviewed:** May 9/11

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: NO3 Hardness Test
Sample ID: Hard Water
Work Order #: n/a

Start Date & Time: May 26/10
Stop Date: July 2/10
Test Species: O.mykiss

Treatments mg N/L	Rep	Day of Test - No. of Mortalities										
		~~34~~ ~~33~~	~~34~~	35	36	~~JAB~~ ~~37~~	~~37~~ ~~38~~	39	40	41	42	43
Control	1	0			0		0					
	2	0			0							
	3	0			0							
	4	0			0							
5	1	0			0							
	2	0			0							
	3	0			0							
	4	0			0							
15	1	0			0							
	2	0			0							
	3	0			0							
	4	0			0							
45	1	0			0							
	2	0			0							
	3	0			0							
	4	0			0							
135	1	0			0							
	2	0			0							
	3	0			0							
	4	0			0							
405	1	0			0							
	2	0			0							
	3	0			0							
	4	0			0		↓					
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAP			JAB							

0 1 1 2 0 1 3 1 1 1 1 1 1 0 3 3 1 0 1 2 1 0 4 3

Comments: _____

Reviewed by: JGL **Date reviewed:** May 9/11

Appendix C

Chronic Toxicity Studies on Nitrate Available from the Literature

Rescan™
Engineers and Scientists

Appendix C. Chronic Toxicity Studies on Nitrate Available from the Literature

Suitability	Paper class	Group	Species (common name)	Endpoint	Effect Level	Mean Hardness (mg/L)	Chronic Value (mg/L)	Chronic value adjusted to hardness 40 mg/L	Reference	Standardized Method	Appropriate Replication and Design	Measured Concentrations	Use of Sensitive Lifestages	Control Performance	Report Abiotic Factors	Acceptable Dose-response	Statistical Methods Reported	Rationale for Acceptability
ALGAE / PROTISTS / PLANTS																		
S	Primary	Alga	*Pseudokirchneriella subcapitata* (green alga)	Growth	72-h IC25	10	691.0	N/A	Nautilus Environmental, 2011a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	*P. subcapitata* is a surrogate for the other green algae found at EKATI. The data for this green alga were not hardness-adjusted, since it is not known if the active uptake mechanism employed by primary producers to obtain nitrate is affected by hardness. IC25 was selected since IC10 fell below the NOEC in the test and was considered unreliable. The IC25 was lower than the MATC, and therefore considered preferable.
INVERTEBRATES																		
R	Primary	Invertebrates (planktonic crustacean)	*Ceriodaphnia dubia* (water flea)	Reproduction	7-d IC25	44	11.3	10.3	Nautilius Environmental, 2011a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	This Cladoceran genus is found at EKATI. IC25 was selected since IC10 fell below the NOEC in the test and was considered unreliable. The IC25 was lower than the MATC, and therefore considered preferable. Survival data were also reported, but were less sensitive.
R	Primary	Invertebrates (planktonic crustacean)	*Ceriodaphnia dubia* (water flea)	Reproduction	7-d IC25	98	23.9	10.2	Nautilius Environmental, 2011a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	This Cladoceran genus is found at EKATI. IC25 was selected since IC10 fell below the NOEC in the test and was considered unreliable. The IC25 was lower than the MATC, and therefore considered preferable. Survival data were also reported, but were less sensitive.
R	Primary	Invertebrates (planktonic crustacean)	*Ceriodaphnia dubia* (water flea)	Reproduction	7-d IC25	166	43.4	11.2	Nautilius Environmental, 2011a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	This Cladoceran genus is found at EKATI. IC25 was selected since IC10 fell below the NOEC in the test and was considered unreliable. The IC25 was lower than the MATC, and therefore considered preferable. Survival data were also reported, but were less sensitive.
R	Primary	Invertebrates (planktonic crustacean)	*Ceriodaphnia dubia* (water flea)	Reproduction	7-d MATC	164	30.0	7.8	Scott and Crunkilton, 2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	*Ceriodaphnia* sp are residents at EKATI. The data reported are the mean of five tests; the paper reports NOEC and LOEC data, but not point estimates. There was no adverse effect on survival.
R	Primary	Invertebtrates (planktonic crustacean)	*Daphnia magna* (water flea)	Reproduction	7-d MATC	164	506.6	132.3	Scott and Crunkilton, 2000	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	*Daphnia* sp are residents at EKATI. This test procedure is shorter than the typical reproduction test with this species, which is 21 d. The paper reports NOEC and LOEC data from two tests, but not point estimates. There was no adverse effect on survival.
S	Primary	Invertebrate (amphipod)	*Hyalella azteca* (amphipod)	Growtrh	14-d IC25	46	12.9	11.3	Nautilius Environmental, 2011a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Hyalella are resident in many sub-Arctic lakes, although not at EKATI. They are considered a suitable surrogate. IC25 was selected since IC10 fell below the NOEC in the test and was considered unreliable. The IC25 was lower than the MATC, and therefore considered preferable. Survival data were also reported, but were less sensitive.
S	Primary	Invertebrate (amphipod)	*Hyalella azteca* (amphipod)	Growtrh	14-d IC25	86	117.0	56.5	Nautilius Environmental, 2011a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Hyalella are resident in many sub-Arctic lakes, although not at EKATI. They are considered a suitable surrogate. IC25 was selected since IC10 fell below the NOEC in the test and was considered unreliable. The IC25 was lower than the MATC, and therefore considered preferable. Survival data were also reported, but were less sensitive.
S	Primary	Invertebrate (amphipod)	*Hyalella azteca* (amphipod)	Growtrh	14-d IC25	172	182.0	45.4	Nautilius Environmental, 2011a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Hyalella are resident in many sub-Arctic lakes, although not at EKATI. They are considered a suitable surrogate. IC25 was selected since IC10 fell below the NOEC in the test and was considered unreliable. The IC25 was lower than the MATC, and therefore considered preferable. Survival data were also reported, but were less sensitive.
S	Primary	Invertebrate (amphipod)	*Hyalella azteca* (amphipod)	Growtrh	10-d IC25	310	187.5	26.7	Stantec, 2006.	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Hyalella are resident in many sub-Arctic lakes, although not at EKATI. They are considered a suitable surrogate. The test method followed was not a standardized method, but was considered sufficiently analogous to the 14 day test for the results to be combined. IC25 was selected since IC10 fell below the NOEC in the test and was considered unreliable. The IC25 was lower than the MATC, and therefore considered preferable. Survival data were also reported, but were less sensitive.
R	Primary	Invertebrate (chironomid)	*Chironomus dilutus* (midge)	Growtrh	10-d IC25	46	49.0	42.9	Nautilius Environmental, 2011a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Chironomids occur in the environment at EKATI.The IC25 was lower than the MATC, and therefore considered preferable. Survival data were also reported, but were less sensitive.
R	Primary	Invertebrate (amphipod)	*Chironomus dilutus* (midge)	Growtrh	10-d IC25	86	101.0	48.7	Nautilius Environmental, 2011a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Chironomids occur in the environment at EKATI.The IC25 was lower than the MATC, and therefore considered preferable. Survival data were also reported, but were less sensitive.
R	Primary	Invertebrate (amphipod)	*Chironomus dilutus* (midge)	Growtrh	10-d IC25	172	174.0	43.4	Nautilius Environmental, 2011a	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Chironomids occur in the environment at EKATI.The IC25 was lower than the MATC, and therefore considered preferable. Survival data were also reported, but were less sensitive.
S	Unacceptable	Invertebrate (amphipod)	*Gammarus pseudolimneaus* (amphipod)	Growth	21-d LOEC	Unknown	>128	Not calculable	Stelzer and Joachim, 2010	No	Yes	Yes	Yes	Yes	No	No	Yes	Mesocosm study. Considered not acceptable since hardness was not reported, and there was no adverse effect observed in the test.
FISH																		
S	Primary	Fish (salmonid)	*Oncorhynchus mykiss* (rainbow trout)	Growth	64-d IC25	310	162.2	23.1	Stantec, 2006.	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Rainbow trout are surrogates for lake trout, lake whitefish, and Arctic grayling with are residents at EKATI. IC25 was selected since IC10 fell below the NOEC in the test and was considered unreliable. The IC25 was lower than the MATC, and therefore considered preferable. Survival and normal development data were also reported, but were less sensitive.
S	Primary	Fish (salmonid)	*Oncorhynchus mykiss* (rainbow trout)	Development	41-d NOEC	10	15.0	56.1	Nautilus Environmental, 2011b	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Rainbow trout are surrogates for lake trout, lake whitefish, and Arctic grayling with are residents at EKATI. The NOEC was selected in this case because it was very close to the minimum significant difference in the test and, therefore, was considered an appropriate estimate of the toxicological threshold.
S	Primary	Fish (salmonid)	*Oncorhynchus mykiss* (rainbow trout)	Growth	41-d MATC	45	26.0	23.2	Nautilus Environmental, 2011b	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Rainbow trout are surrogates for lake trout, lake whitefish, and Arctic grayling with are residents at EKATI. The MATC was selected because it was more sensitive than the EC25.
S	Primary	Fish (salmonid)	*Oncorhynchus mykiss* (rainbow trout)	Growth	41-d MATC	90	77.9	36.0	Nautilus Environmental, 2011b	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Rainbow trout are surrogates for lake trout, lake whitefish, and Arctic grayling with are residents at EKATI. The MATC was selected because it was more sensitive than the EC25.
S	Primary	Fish (salmonid)	*Oncorhynchus mykiss* (rainbow trout)	Growth	41-d MATC	160	77.9	20.8	Nautilus Environmental, 2011b	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Rainbow trout are surrogates for lake trout, lake whitefish, and Arctic grayling with are residents at EKATI. The MATC was selected because it was more sensitive than the EC25.
R	Primary	Fish (salmonid)	*Salvelinus namaycush* (lake trout)	Growth	146-d MATC	13.0	3.2	9.2	McGurk et al, 2006	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Lake trout are resident species at EKATI. Results for survival also reported, but were less sensitive
R	Unacceptable	Fish (salmonid)	*Coregonus clupeaformis* (lake whitefish)	Growth					McGurk et al, 2006	Yes	Yes	Yes	Yes	Poor	Yes	No	Yes	The data were considered unacceptable because of poor control survival
S	Unacceptable	Fish (salmonid)	*Oncorhynchus tshawytscha* (chinook salmon)	Survival (juvenile)					Westin, 1976	No	Yes	Yes	Yes	Yes	No	Yes	Yes	The data were considered unacceptable because water hardness was not reported.
S	Primary	Fish (non-salmonid)	*Pimephales promelas* (fathead minnow)	Growth	7-d MATC	176	506.6	123.7	Scott and Crunkilton, 2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Acceptable data, but were not used in the SSD since a more sensitive endpoint was available from USEPA (2010). Data from a 7 d larval exposure.
S	Unacceptable	Fish (non-salmonid)	*Pimephales promelas* (fathead minnow)	Growth	LOEC	176	>1434	>350	Scott and Crunkilton, 2000	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Considered unacceptable since there were no adverse effects observed in the test.
S	Primary	Fish (non-salmonid)	*Pimephales promelas* (fathead minnow)	Growth	11-d MATC	176	506.6	123.7	Scott and Crunkilton, 2000	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Acceptable data, but were not used in the SSD since a more sensitive endpoint was available from USEPA (2010). Data from an 11 d embryo-larval exposure.
S	Primary	Fish (non-salmonid)	*Pimephales promelas* (fathead minnow)	Growth	7-d IC25	12	66.0	207.6	Nautilus Environmental, 2011b	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Acceptable data, but were not used in the SSD since a more sensitive endpoint and longer exposure period was available from USEPA (2010).
S	Primary	Fish (non-salmonid)	*Pimephales promelas* (fathead minnow)	Growth	7-d IC25	50	205.0	165.8	Nautilus Environmental, 2011b	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Acceptable data, but were not used in the SSD since a more sensitive endpoint and longer exposure period was available from USEPA (2010).
S	Primary	Fish (non-salmonid)	*Pimephales promelas* (fathead minnow)	Growth	7-d IC25	94	340.0	150.8	Nautilus Environmental, 2011b	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Acceptable data, but were not used in the SSD since a more sensitive endpoint and longer exposure period was available from USEPA (2010).
S	Primary	Fish (non-salmonid)	*Pimephales promelas* (fathead minnow)	Growth	7-d IC25	168	393.0	100.3	Nautilus Environmental, 2011b	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Acceptable data, but were not used in the SSD since a more sensitive endpoint and longer exposure period was available from USEPA (2010).
S	Primary	Fish (non-salmonid)	*Pimephales promelas* (fathead minnow)	Growth	7-d EC20	145	59.8	17.6	USEPA, 2010	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Species is considered a surrogate for cyprinids that occur t EKATI, including lake chub. The EC20 was used rather than the EC10 since the concentration reported for the EC10 was lower thanthe NOEC, wich was a test concentration that performed as well as the control. Survival data were also reported, but were less sensitive.
S	Secondary	Fish (non-salmonid)	*Pimephales promelas* (fathead minnow)	Growth (embryo-larval)	32-d MATC	220	215.0	42.4	Adelman et al. (2009)	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Acceptable secondary data, but were not used in the SSD since a more sensitive endpoint and longer exposure period was available from USEPA (2010). Considered secondary because of use of pseudo-replication.
S	Secondary	Fish (non-salmonid)	*Pimephales promelas* (fathead minnow)	Survival (juvenile)	30-d MATC	220	84.0	16.6	Adelman et al. (2009)	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Non-standard method involving exposure of fish in aquaria. Only two replicates were used, and so results from USEPA (2010) were considered a more appropriate exposure regime for this species and these data were therefore not used.
S	Secondary	Fish (non-salmonid)	*Notropis topeka* (Topeka shiner)	Growth (juvenile)	30-d MATC	220	360.0	71.1	Adelman et al. (2009)	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Non-standard method involving exposure of fish in aquaria. Only two replicates used. Acceptable as secondary data.

Notes:

ICx (e.g. IC20) is the concentration at which x% of test organisms are expected to be inhibited (e.g. inhibited reproduction).
ECx (e.g. EC10) is the concentration at which x% of test organisms are expected to show an effect.
LCx (e.g. LC50) is the concentration at which x% Survival of test organisms is expected.

NOEC is the No Observable Effect Level (highest treatment concentration with no significant difference from controls).
LOEC is the Lowest Observable Effect Level (lowest concentration with an effect significantly different from controls).
MATC is the Maximum Acceptable Toxicant Concentration (geometric mean of the NOEC and LOEC).

Appendix D

Statistical Analysis of Chronic Species Sensitivity Distribution Using SSD Master Software

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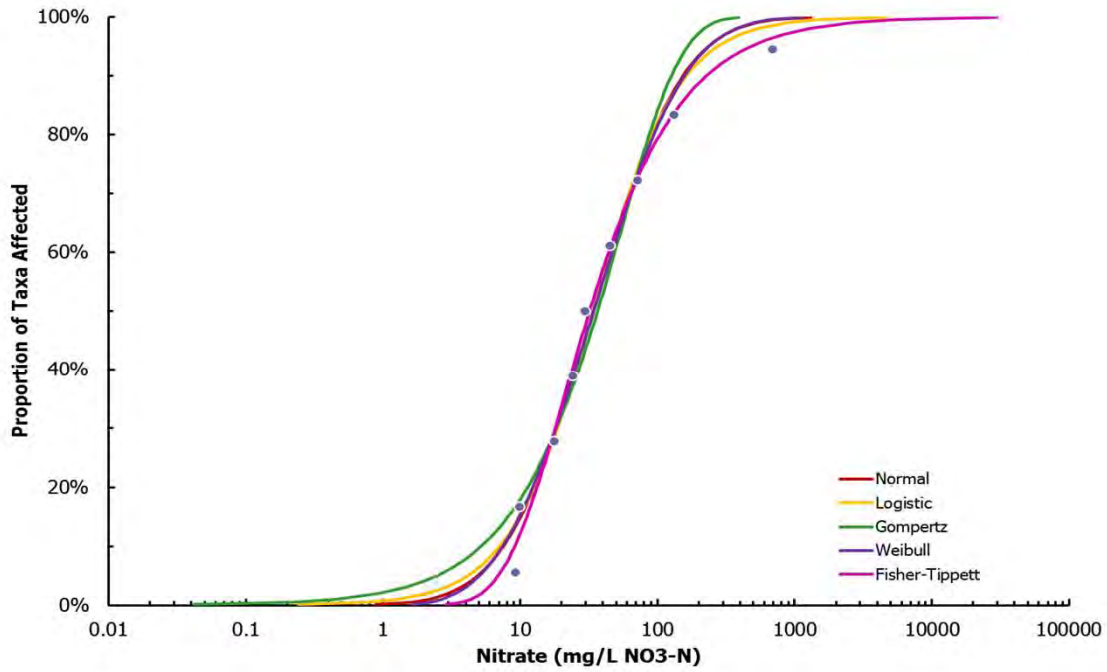
Appendix D.1. Summary Statistics of Potential Species Sensitive Distribution Models

	Model				
	Normal	Logistic	Gompertz	Weibull	Fisher-Tippett
Σe_i^2	0.0166	0.0159	0.0290	0.0170	0.0122
MSE	0.0024	0.0023	0.0041	0.0024	0.0017
Normal residuals? D'Agostino-Pearson (n>20)	Yes	No	No	Yes	Yes
Normal residuals? Shapiro-Francia (n>7)	Yes	Yes	Yes	Yes	Yes
Data from specified distribution? Anderson-Darling (n>5)	Yes	Yes	Yes	Yes	Yes
A^2	0.341	0.254	1.198	0.371	0.169
HC5(mg/L)	5.14	4.39	2.68	5.27	7.08
Lower confidence limit on the mean (expected HC5)	2.96	1.82	0.54	2.89	5.02
Upper confidence limit on the mean (expected HC5)	8.91	10.60	13.23	9.62	9.98

Model Parameter Estimates						
Model	Shape notation	Shape Estimate	Scale Notation	Scale Estimate	Location Notation	Location Estimate
Normal			σ	0.509817326	μ	1.549152595
Logistic			σ or s	0.307671726	μ	1.548098285
Gompertz			σ or s	0.441282257	μ	1.738322336
Weibull	κ	3.40682403	λ	1.726305509		
Fisher-Tippett			b or s	0.459702985	μ or L	1.354482973

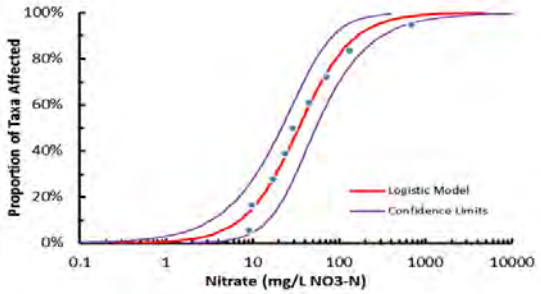


Appendix D.2. Selected Logistic Species Sensitive Distribution Model Summary Statistics

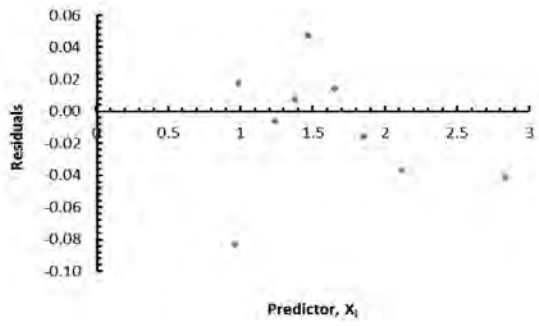
Model 2 - Logistic			
Parameters	Parameter Estimates	Statistics	Values
μ	1.548098285	Σe_i^2	0.01594612
σ	0.307671726	MSE	0.002278017

Residual Normality					
Test	Test Statistic	Critical Value (α=0.05)		Normal?	P-Value
D'Agostino-Pearson, K^2 (n≥20)	4.888	$x^2_{(2df)}$	5.991	No	0.0868
Shapiro-Francia, W' (7≤n)	-1.677	z	1.645	Yes	0.9532

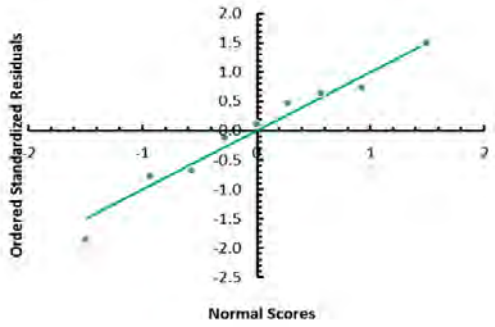
Anderson-Darling Goodness-of-Fit (n≥5)	
Test Statistic, A^2	0.254
Critical Value (α=0.10)	1.933
Sample from the Model CDF?	Yes



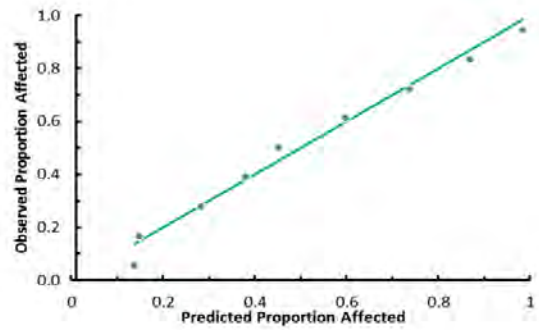
Plot 1. Logistic CDF fit to data with confidence limits.



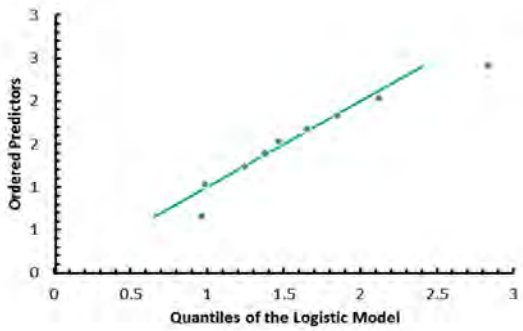
Plot 2. Plot of residuals versus toxicity metameter, x_i.



Plot 3. Normal probability plot of residuals.



Plot 4. P-P Plot (observed vs. predicted proportion affected)



Plot 5. Q-Q Plot for the logistic CDF model

Appendix D.3. Selected Logistic Species Sensitive Distribution Model Results

Taxon	Log (mg/L)	Plotting Postion	Model Estimates	e_i	e_i^2	e_i^3	Rank	Reverse Ordered Data (x_i)	$F(x_i)$	$F(x_{N+1-i})$	S-values	Sorted e_i
Salvelinus namaycush (lake trout)	0.96463587	0.056	0.13051877	-0.075	0.005619	-0.000421	1	2.8395	0.13051877	0.985186105	-0.69426977	-0.075
Ceriodaphnia dubia (water flea)	0.99155522	0.167	0.140772822	0.026	0.000670	0.000017	2	2.1214	0.140772822	0.865694164	-1.322747867	-0.049
Pimephales promelas (fathead minnow)	1.244351819	0.278	0.271457168	0.006	0.000040	0.000000	3	1.8517	0.271457168	0.72846876	-1.448682774	-0.041
Oncorhynchus mykiss (rainbow trout	1.470801725	0.389	0.437520623	-0.049	0.002365	-0.000115	4	1.6526	0.437520623	0.584144277	-1.325370927	-0.032
Hyalella azteca (amphipod)	1.472070926	0.500	0.438536075	0.061	0.003778	0.000232	5	1.4721	0.438536075	0.438536075	-1.401520956	-0.006
Chironomus dilutus (midge)	1.652648098	0.611	0.584144277	0.027	0.000727	0.000020	6	1.4708	0.584144277	0.437520623	-1.360343216	0.006
Notropis topeka (Topeka shiner)	1.851729526	0.722	0.72846876	-0.006	0.000039	0.000000	7	1.2444	0.72846876	0.271457168	-0.915083574	0.026
Daphnia magna (water flea)	2.121417511	0.833	0.865694164	-0.032	0.001047	-0.000034	8	0.9916	0.865694164	0.140772822	-0.493242527	0.027
Pseudokirchneriella subcapitata (green alga)	2.839478047	0.944	0.985186105	-0.041	0.001660	-0.000068	9	0.9646	0.985186105	0.13051877	-0.292368359	0.061
Sum				-0.082298764	0.01594612	-0.000368606					-9.25362997	
Mean												-0.009
Standard deviation												0.043579747

Taxon	Log (mg/L)	$(e_i-e_{ibar})^2$	$(e_i-e_{ibar})^4$	Standardized Sorted e_i	Uniform Order Statistic	m_i	m_ix_i	m_i^2	Quantile Function ($F^{-1}(p_i)$)	Quantile Function ($F^{-1}(phat_i)$)	$\partial f(phat_i;\mu,\sigma)/\partial\mu$	$\partial f(phat_i;\mu,\sigma)/\partial\sigma$
Salvelinus namaycush (lake trout)	0.96463587	0.00431	0.0000185362	-1.510	0.068	-1.494154909	0.112006655	2.232498891	0.676398645	0.96463587	0.416537584	-0.348281415
Ceriodaphnia dubia (water flea)	0.99155522	0.00124	0.0000015425	-0.906	0.176	-0.931971312	0.045323381	0.868570527	1.052919745	0.99155522	0.443456935	-0.260787674
Pimephales promelas (fathead minnow)	1.244351819	0.00025	0.0000000603	-0.725	0.284	-0.571637525	0.023289462	0.32676946	1.25411443	1.244351819	0.696253534	0.560856234
Oncorhynchus mykiss (rainbow trout	1.470801725	0.00154	0.0000023815	-0.533	0.392	-0.274391488	0.008879536	0.075290689	1.409035242	1.470801725	0.92270344	1.29686766
Hyalella azteca (amphipod)	1.472070926	0.00501	0.0000251434	0.066	0.500	0	0	0	1.548098285	1.472070926	0.92397264	1.300992837
Chironomus dilutus (midge)	1.652648098	0.00132	0.0000017391	0.355	0.608	0.274391488	0.001734321	0.075290689	1.687161329	1.652648098	1.104549813	1.887907908
Notropis topeka (Topeka shiner)	1.851729526	0.00001	0.0000000001	0.804	0.716	0.571637525	0.014801894	0.32676946	1.842082141	1.851729526	1.303631241	2.534965829
Daphnia magna (water flea)	2.121417511	0.00053	0.0000002805	0.829	0.824	0.931971312	0.025132316	0.868570527	2.043276826	2.121417511	1.573319225	3.411510412
Pseudokirchneriella subcapitata (green alga)	2.839478047	0.00099	0.0000009713	1.620	0.932	1.494154909	0.091836626	2.232498891	2.419797925	2.839478047	2.291379762	5.745363268
Sum		0.01519	0.00005				0.323004191	7.006259134				
Mean												
Standard deviation												

Appendix D.3. Selected Logistic Species Sensitive Distribution Model Results

Taxon	Log (mg/L)	$x_i(X'X)^{-1}$		$x_i(X'X)^{-1}x_i'$	$e_{i(x)}$	$e_{i(x)}^2$	LCL regression	UCL regression	LCL conc	UCL conc
Salvelinus namaycush (lake trout)	0.96463587	0.459548272	-0.213678137	0.266	0.288237224	0.083080697	0.671618435	1.257653304	4.694814473	18.09894683
Ceriodaphnia dubia (water flea)	0.99155522	0.449436211	-0.20761205	0.253	-0.061364525	0.003765605	0.70544816	1.277662279	5.07514156	18.95231558
Pimephales promelas (fathead minnow)	1.244351819	0.354474986	-0.150646105	0.162	-0.00976261	9.53086E-05	1.015390859	1.473312779	10.360742	29.73806999
Oncorhynchus mykiss (rainbow trout	1.470801725	0.269410707	-0.099617204	0.119	0.061766483	0.003815098	1.27443019	1.66717326	18.81179295	46.47006289
Hyalella azteca (amphipod)	1.472070926	0.268933941	-0.099331199	0.119	-0.07602736	0.005780159	1.275812439	1.668329412	18.8717615	46.59393739
Chironomus dilutus (midge)	1.652648098	0.201101424	-0.058639397	0.111	-0.03451323	0.001191163	1.462948258	1.842347939	29.03676687	69.55813663
Notropis topeka (Topeka shiner)	1.851729526	0.126317916	-0.01377779	0.130	0.009647385	9.3072E-05	1.647023566	2.056435486	44.36327159	113.8768607
Daphnia magna (water flea)	2.121417511	0.025011564	0.04699451	0.200	0.078140685	0.006105967	1.867469947	2.375365075	73.70041726	237.3367957
Pseudokirchneriella subcapitata (green alga)	2.839478047	-0.244722716	0.208804426	0.639	0.419680122	0.176131405	2.385220745	3.293735349	242.7843818	1966.687463
Sum						0.280058475				
Mean					$MSE_{(x)}$	0.040008354				
Standard deviation										
$(X'X)^{-1}$	0.800650416	-0.361912168	-	-	-	-	-	-	-	-
	-0.361912168	0.180681811	-	-	-	-	-	-	-	-
X'X	13.20527297	26.45063678	-	-	-	-	-	-	-	-
	26.45063678	58.51616835	-	-	-	-	-	-	-	-
∂f(pi;μ,ß)/∂μ	0.416537584	0.443456935	0.696253534	0.92270344	0.92397264	1.104549813	1.303631241	1.573319225	2.291379762	-
∂f(pi;μ,ß)/∂ß	-0.348281415	-0.260787674	0.560856234	1.29686766	1.300992837	1.887907908	2.534965829	3.411510412	5.745363268	-

Appendix D.4. Selected Logistic Species Sensitive Distribution Model Hazardous Concentrations Thresholds

Proportion of Taxa Affected	HCx	Log (mg/L)	$\partial f(phat_i;\mu,\sigma)/\partial\mu$	$\partial f(phat_i;\mu,\sigma)/\partial\sigma$	$x_i(X'X)^{-1}_{(i)}$		$x_i(X'X)^{-1}x_i'$	LCL regression	UCL regression	LCL conc	UCL conc
0.001	0.264901929	-0.576914879	-1.125013165	-5.358656493	1.03862073	-0.561055809	1.838	-1.347395617	0.193565859	0.044937032	1.561585827
0.005	0.830802994	-0.080501947	-0.628600232	-3.745206539	0.85214678	-0.449192629	1.147	-0.689058787	0.528054893	0.204616765	3.373299429
0.01	1.362416295	0.134309829	-0.413788456	-3.047021565	0.77145428	-0.400786299	0.902	-0.405429067	0.674048725	0.393161455	4.721160071
0.02	2.242307742	0.350695216	-0.197403069	-2.343722013	0.690170665	-0.352025366	0.689	-0.120969007	0.82235944	0.756886908	6.642926388
0.03	3.010239161	0.478601001	-0.069497284	-1.928000405	0.642123776	-0.323202693	0.579	0.046347028	0.910854974	1.112620425	8.144322716
0.04	3.717928022	0.570300978	0.022202692	-1.629955545	0.607677339	-0.302538745	0.507	0.165796164	0.974805791	1.464860149	9.436388031
0.05	4.387101296	0.642177662	0.094079377	-1.396340694	0.58067738	-0.286341837	0.454	0.25906016	1.025295165	1.815767171	10.59973883
0.06	5.029544628	0.701528666	0.153430381	-1.203437028	0.558382602	-0.272967504	0.414	0.335787111	1.067270221	2.166641768	11.6753584
0.07	5.652585107	0.75224711	0.204148825	-1.038591059	0.539330583	-0.261538457	0.382	0.401119469	1.103374751	2.518369606	12.68746189
0.08	6.261193954	0.796657157	0.248558872	-0.89424875	0.522648268	-0.251530964	0.355	0.458124738	1.135189576	2.871605245	13.65178929
0.09	6.858959414	0.836258233	0.288159948	-0.765536644	0.507772408	-0.242607139	0.332	0.508780375	1.163736091	3.226861869	14.57928048
0.1	7.448595785	0.872074407	0.323976122	-0.649126292	0.49431832	-0.234536215	0.312	0.554435908	1.189712906	3.584560441	15.477931
0.11	8.032234204	0.904836363	0.356738078	-0.542642812	0.482011527	-0.227153537	0.295	0.596053498	1.213619229	3.945058955	16.35382058
0.12	8.611600164	0.935083857	0.386985572	-0.444331879	0.470649273	-0.220337476	0.280	0.634343327	1.235824388	4.308670934	17.21172457
0.13	9.188127688	0.963227022	0.415128737	-0.352860476	0.460077495	-0.213995611	0.267	0.669844571	1.256609472	4.675677747	18.05549804
0.14	9.763035936	0.989584888	0.441486603	-0.267191681	0.450176352	-0.20805605	0.254	0.702976262	1.276193514	5.046337137	18.88832793
0.15	10.33738246	1.014410584	0.466312299	-0.18650277	0.440850758	-0.202461753	0.243	0.734070541	1.294750628	5.42088933	19.71290495
0.16	10.91210134	1.037908391	0.489810105	-0.110129791	0.432023976	-0.197166687	0.233	0.763395163	1.312421619	5.799561559	20.53154441
0.17	11.48803125	1.060245608	0.512147323	-0.037528978	0.423633161	-0.192133152	0.224	0.791169147	1.329322069	6.182571494	21.34627348
0.18	12.06593651	1.081561036	0.533462751	0.031750796	0.415626174	-0.187329869	0.216	0.817573957	1.345548115	6.570129913	22.15889577
0.19	12.64652339	1.101971152	0.553872866	0.09808811	0.40795926	-0.182730592	0.208	0.842761642	1.361180661	6.962442833	22.97104016
0.2	13.23045276	1.121574706	0.573476421	0.161803924	0.400595326	-0.178313069	0.201	0.866860894	1.376288519	7.359713248	23.78419841
0.21	13.81835024	1.140456196	0.592357911	0.223172871	0.39350263	-0.174058257	0.194	0.889981616	1.390930776	7.762142577	24.59975469
0.22	14.41081449	1.158688528	0.610590242	0.282431912	0.386653786	-0.169949729	0.188	0.912218437	1.405158618	8.169931903	25.41900921
0.23	15.00842402	1.176335091	0.628236806	0.339787079	0.380024981	-0.165973199	0.182	0.933653435	1.419016747	8.583283055	26.24319739
0.24	15.61174291	1.193451391	0.645353106	0.395418775	0.373595366	-0.162116161	0.177	0.954358285	1.432544497	9.002399566	27.07350578
0.25	16.22132577	1.210086346	0.661988061	0.449485997	0.367346565	-0.15836759	0.172	0.974395968	1.445776724	9.427487557	27.91108532
0.26	16.83772199	1.226283334	0.678185049	0.50212973	0.361262282	-0.154717712	0.167	0.993822142	1.458744527	9.858756551	28.75706285
0.27	17.46147959	1.242081041	0.693982755	0.55347571	0.355327988	-0.15115781	0.163	1.01268626	1.471475821	10.29642025	29.61255097
0.28	18.09314867	1.257514152	0.709415867	0.603636676	0.34953065	-0.147680066	0.159	1.031032478	1.483995826	10.74069731	30.47865697
0.29	18.73328455	1.27261393	0.724515645	0.652714238	0.343858527	-0.144277437	0.155	1.048900408	1.496327452	11.19181204	31.35649071
0.3	19.38245079	1.28740869	0.739310405	0.700800425	0.338300982	-0.140943541	0.151	1.066325746	1.508491634	11.64999518	32.24717202
0.31	20.04122202	1.301924199	0.753825914	0.747978985	0.332848335	-0.137672573	0.148	1.083340793	1.520507606	12.11548468	33.15183754
0.32	20.71018669	1.316184014	0.768085728	0.794326483	0.327491738	-0.134459223	0.145	1.099974895	1.532393132	12.58852641	34.07164736
0.33	21.38994984	1.330209766	0.782111481	0.839913227	0.322223065	-0.131298618	0.142	1.11625482	1.544164712	13.06937503	35.00779135
0.34	22.08113579	1.344021409	0.795923123	0.884804068	0.317034821	-0.128186261	0.139	1.132205073	1.555837744	13.55829482	35.96149549
0.35	22.78439093	1.357637424	0.809539138	0.929059077	0.311920063	-0.125117987	0.136	1.147848171	1.567426676	14.05556056	36.9340282
0.36	23.50038654	1.371075006	0.82297672	0.97273414	0.306872332	-0.122089922	0.134	1.163204877	1.578945134	14.56145852	37.92670677
0.37	24.22982177	1.38435022	0.836251934	1.015881472	0.301885593	-0.119098446	0.131	1.17829441	1.59040603	15.07628746	38.94090402
0.38	24.97342671	1.397478138	0.849379853	1.05855006	0.296954185	-0.116140161	0.129	1.193134613	1.601821663	15.60035973	39.97805514
0.39	25.73196566	1.410472963	0.862374678	1.100786067	0.292072772	-0.113211868	0.127	1.207742119	1.613203807	16.13400247	41.03966499
0.4	26.50624059	1.423348136	0.87524985	1.142633177	0.287236306	-0.110310538	0.125	1.222132483	1.624563788	16.6775589	42.12731578
0.41	27.29709489	1.436116429	0.888018144	1.184132908	0.282439989	-0.107433293	0.124	1.236320304	1.635912555	17.2313897	43.2426753
0.42	28.10541734	1.448790039	0.900691753	1.225324893	0.277679238	-0.104577384	0.122	1.250319336	1.647260741	17.79587456	44.38750573
0.43	28.93214645	1.461380655	0.91328237	1.266247133	0.272949664	-0.101740176	0.120	1.264142581	1.658618729	18.37141385	45.56367329
0.44	29.77827519	1.473899539	0.925801254	1.306936228	0.268247035	-0.098919133	0.119	1.277802379	1.669996699	18.95843044	46.77315856
0.45	30.64485608	1.486357586	0.938259301	1.34742759	0.263567259	-0.0961118	0.118	1.29131049	1.681404682	19.55737172	48.01806794
0.46	31.53300687	1.498765385	0.9506671	1.387755635	0.258906359	-0.093315789	0.117	1.30467816	1.692852611	20.1687118	49.30064607
0.47	32.44391669	1.511133277	0.963034992	1.427953973	0.254260449	-0.090528771	0.116	1.317916192	1.704350363	20.79295395	50.62328963
0.48	33.37885287	1.523471407	0.975373122	1.468055578	0.249625719	-0.08774846	0.115	1.331035005	1.71590781	21.43063329	51.98856254
0.49	34.33916851	1.535789775	0.98769149	1.508092951	0.244998413	-0.084972602	0.114	1.344044695	1.727534855	22.08231979	53.39921283
0.5	35.32631078	1.548098285	1	1.548098285	0.240374809	-0.082198965	0.113	1.356955085	1.739241485	22.74862152	54.8581914

Appendix D.4. Selected Logistic Species Sensitive Distribution Model Hazardous Concentrations Thresholds

Proportion of Taxa Affected	HCx	Log (mg/L)	$\partial f(phat_i;\mu,\sigma)/\partial\mu$	$\partial f(phat_i;\mu,\sigma)/\partial\sigma$	$x_i(X'X)^{-1}{}_{(i)}$		$x_i(X'X)^{-1}x_i'$	LCL regression	UCL regression	LCL conc	UCL conc
0.51	36.34183026	1.560406796	1.01230851	1.58810362	0.235751206	-0.079425329	0.113	1.36977578	1.751037811	23.43018837	56.36867301
0.52	37.3873913	1.572725163	1.024626878	1.628140993	0.2311239	-0.076649471	0.112	1.382516214	1.762934113	24.1277161	57.93407972
0.53	38.46478357	1.585063293	1.036965008	1.668242597	0.22648917	-0.073869159	0.112	1.395185699	1.774940888	24.84195087	59.55810727
0.54	39.57593511	1.597431185	1.0493329	1.708440935	0.22184326	-0.071082142	0.111	1.407793471	1.7870689	25.57369437	61.24475473
0.55	40.72292688	1.609838985	1.061740699	1.748768981	0.21718236	-0.068286131	0.111	1.420348739	1.79932923	26.32380947	62.99835805
0.56	41.9080093	1.622297032	1.074198746	1.789260342	0.212502584	-0.065478797	0.111	1.432860729	1.811733334	27.0932266	64.82362804
0.57	43.13362078	1.634815916	1.08671763	1.829949437	0.207799955	-0.062657754	0.111	1.445338735	1.824293096	27.88295098	66.72569353
0.58	44.40240891	1.647406532	1.099308247	1.870871678	0.20307038	-0.059820547	0.111	1.457792164	1.8370209	28.69407068	68.71015059
0.59	45.71725447	1.660080141	1.111981856	1.912063663	0.19830963	-0.056964638	0.112	1.470230588	1.849929694	29.52776583	70.78311879
0.6	47.08129881	1.672848435	1.12475015	1.953563393	0.193513312	-0.054087392	0.112	1.4826638	1.86303307	30.38531898	72.95130582
0.61	48.49797525	1.685723608	1.137625322	1.995410503	0.188676846	-0.051186062	0.113	1.495101867	1.876345348	31.26812696	75.22208178
0.62	49.97104514	1.698718433	1.150620147	2.037646511	0.183795434	-0.048257769	0.113	1.507555192	1.889881673	32.17771438	77.60356509
0.63	51.50463942	1.711846351	1.163748066	2.080315099	0.178864026	-0.045299485	0.114	1.520034584	1.903658118	33.11574911	80.10472216
0.64	53.10330668	1.725121565	1.17702328	2.12346243	0.173877287	-0.042308008	0.115	1.532551321	1.917691808	34.08406002	82.73548334
0.65	54.77206906	1.738559147	1.190460862	2.167137494	0.168829556	-0.039279943	0.116	1.545117242	1.932001052	35.08465754	85.50687849
0.66	56.51648743	1.752175162	1.204076877	2.211392503	0.163714798	-0.036211669	0.117	1.557744824	1.9466055	36.11975737	88.43119623
0.67	58.34273773	1.765986804	1.217888519	2.256283343	0.158526553	-0.033099312	0.118	1.570447293	1.961526316	37.19180811	91.52217163
0.68	60.25770082	1.780012557	1.231914272	2.301870088	0.15325788	-0.029938707	0.120	1.583238727	1.976786387	38.30352356	94.79520867
0.69	62.26906885	1.794272371	1.246174086	2.348217585	0.147901283	-0.026725358	0.122	1.596134194	1.992410549	39.45792053	98.2676452
0.7	64.38547152	1.808787881	1.260689595	2.395396146	0.142448637	-0.02345439	0.123	1.609149895	2.008425866	40.65836357	101.9590701
0.71	66.6166272	1.823582641	1.275484355	2.443482332	0.136891092	-0.020120494	0.125	1.622303338	2.024861943	41.90861789	105.8917054
0.72	68.97352451	1.838682419	1.290584133	2.492559894	0.131218968	-0.016717865	0.128	1.635613539	2.041751299	43.21291255	110.0908687
0.73	71.46864197	1.85411553	1.306017245	2.54272086	0.125421631	-0.013240121	0.130	1.649101252	2.059129807	44.57601618	114.5855378
0.74	74.11621563	1.869913236	1.321814951	2.59406684	0.119487336	-0.009680218	0.133	1.662789256	2.077037217	46.0033285	119.4090427
0.75	76.93256713	1.886110224	1.338011939	2.646710574	0.113403054	-0.006030341	0.136	1.676702675	2.095517774	47.5009915	124.5999231
0.76	79.93650937	1.90274518	1.354646894	2.700777795	0.107154253	-0.00228177	0.139	1.690869384	2.114620976	49.07602556	130.2029954
0.77	83.14985184	1.91986148	1.371763194	2.756409491	0.100724638	0.001575269	0.143	1.705320484	2.134402475	50.7364976	136.2706964
0.78	86.5980361	1.937508043	1.389409758	2.813764659	0.094095833	0.005551798	0.146	1.720090889	2.154925198	52.49173027	142.8647868
0.79	90.31094249	1.955740375	1.407642089	2.8730237	0.087246989	0.009660326	0.151	1.735220044	2.176260706	54.35256493	150.0585362
0.8	94.323925	1.974621864	1.426523579	2.934392646	0.080154293	0.013915138	0.155	1.750752822	2.198490907	56.33169536	157.9395538
0.81	98.67915431	1.994225419	1.446127134	2.998108461	0.072790359	0.018332662	0.160	1.766740646	2.221710191	58.44409612	166.6135015
0.82	103.4273827	2.014635535	1.466537249	3.064445775	0.065123445	0.022931939	0.166	1.783242913	2.246028156	60.70757893	176.2090283
0.83	108.6302959	2.035950963	1.487852677	3.133725549	0.057116458	0.027735221	0.172	1.800328823	2.271573102	63.14352505	186.8844221
0.84	114.3636953	2.05828818	1.510189895	3.206326362	0.048725643	0.032768757	0.179	1.818079765	2.298496595	65.77786374	198.8367221
0.85	120.7218789	2.081785986	1.533687701	3.282699341	0.039898861	0.038063823	0.186	1.836592466	2.326979506	68.642401	212.3144271
0.86	127.8237878	2.106611683	1.558513397	3.363388252	0.030573266	0.04365812	0.194	1.85598323	2.357240136	71.77665742	227.6355755
0.87	135.8218209	2.132969549	1.584871263	3.449057046	0.020672123	0.04959768	0.204	1.876393739	2.389545358	75.23046384	245.2140542
0.88	144.9147905	2.161112713	1.613014428	3.54052845	0.010100346	0.055939546	0.214	1.897999185	2.424226241	79.06771444	265.5988812
0.89	155.3675107	2.191360207	1.643261922	3.638839382	-0.001261908	0.062755607	0.226	1.921019924	2.461700491	83.37194327	289.5346135
0.9	167.5414091	2.224122164	1.676023878	3.745322863	-0.013568701	0.070138284	0.240	1.945738703	2.502505624	88.25487478	318.0574877
0.91	181.944251	2.259938338	1.711840052	3.861733214	-0.027022789	0.078209208	0.256	1.972526957	2.547349718	93.87003009	352.6547339
0.92	199.3147382	2.299539413	1.751441128	3.990445321	-0.041898649	0.087133034	0.274	2.001886632	2.597192195	100.4353579	395.5416268
0.93	220.77478	2.343949461	1.795851175	4.134787629	-0.058580964	0.097140527	0.296	2.034520003	2.653378918	108.2729584	450.1724552
0.94	248.1235034	2.394667905	1.846569619	4.299633598	-0.077632983	0.108569573	0.323	2.071453559	2.71788225	117.883646	522.2545708
0.95	284.4584953	2.454018908	1.905920623	4.492537264	-0.099927761	0.121943907	0.357	2.114275566	2.793762251	130.0994817	621.9597074
0.96	335.6569106	2.525895593	1.977797308	4.726152116	-0.126927721	0.138140814	0.402	2.165641455	2.886149731	146.4338412	769.395658
0.97	414.5678023	2.617595569	2.069497284	5.024196975	-0.161374158	0.158804762	0.464	2.23051844	3.004672699	170.0272143	1010.817377
0.98	556.5463696	2.745501354	2.197403069	5.439918583	-0.209421046	0.187627436	0.560	2.320030334	3.170972374	208.9442068	1482.423783
0.99	915.9815821	2.961886741	2.413788456	6.143218135	-0.290704662	0.236388368	0.750	2.469558061	3.454215422	294.8207597	2845.872386
0.995	1502.098864	3.176698518	2.628600232	6.84140311	-0.371397161	0.284794699	0.972	2.616362594	3.737034441	413.3925008	5458.011433
0.999	4710.982054	3.67311145	2.125013165	8.454853064	-1.358521527	0.758570046	3.527	2.605853171	4.740369729	403.508949	55000.89149

Appendix D.5. Selected Logistic Species Sensitive Distribution Model Residual Normality Test Results

D'Agostino and Pearson's, K^2	
s^2	0.001899194
k_3	-7.4325E-05
k_4	1.08556E-05
g_1	-0.89800982
g_2	3.009633488
root b_1	-0.740820305
A	-1.252214866
B	3.239795918
C	1.116504627
D	1.056647826
E	4.260086467
F	-0.30222852
G	0.54
H	2.150186021
J	1.292786253
K	26.97269465
L	0.566466487
Z_{g1}	-1.268683259
Z_{g2}	1.810595064

Shapiro-Francia, W'	
W'	0.980
X	-2.802775423
λ_{hat}	0.15872288
y	-2.916289195
μ_{yhat}	-2.233081382
σ_{yhat}	0.407375849
z	-1.677094545
A	0.046761998
p	0.953238002

Appendix E

Toxicity Testing in Support of a SSWQO for Nitrate for EKATI

Rescan™
Engineers and Scientists

Nautilus Environmental

Toxicity testing in support of a SSWQO for nitrate for EKATI

Final Report

Report date:
February 16, 2012

Submitted to:

Rescan Environmental
Vancouver, BC

8664 Commerce Court
Burnaby, BC
V5A 4N7

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1.0 INTRODUCTION

The toxicity of major anions, such as sulphate and chloride, has been shown to be reduced with increasing water hardness using some species (Elphick et al., 2011a and b). In addition, a recent evaluation has demonstrated that hardness also has an effect on the toxicity of nitrate (Nautilus Environmental, 2011a and b). The mechanism resulting in reduced toxicity of anions at elevated hardness has not been definitively described; however, it is likely related to an effect of calcium and/or magnesium on the permeability of the membrane or, alternatively, results from competitive exclusion at passive uptake sites by these or other ions.

The testing described here was performed to demonstrate whether the relationship between water hardness and toxicity of nitrate observed previously in laboratory-prepared waters is applicable to the water quality conditions observed at the EKATI diamond mine site. This was accomplished by evaluating the sensitivity of *Ceriodaphnia dubia* and fathead minnows (*Pimephales promelas*) to nitrate added into water collected from four lakes at EKATI that had a range of hardnesses. Thus, by comparing the relationship of the sensitivity of these organisms at the different levels of hardnesses associated with the lakes, with that demonstrated previously with laboratory-prepared waters, it is possible to demonstrate whether a consistent relationship is observed. Thus, the results of this testing program can be used to establish whether the hardness-toxicity relationship established previously for nitrate can be applied to develop a site-specific water quality objective for nitrate at EKATI.

2.0 METHODS

Water was collected from each of four sites proximate to the EKATI diamond mine: Slipper, Nema, Moose, and Leslie lakes. These lakes were selected because they represent a wide range of hardnesses. Nitrate was introduced by addition of reagent grade sodium nitrate, to produce a range of nitrate concentrations which were then evaluated for toxicity. Test concentrations were chosen based on the toxicological thresholds determined previously for these species using laboratory-prepared waters at similar hardnesses to that observed in the lake samples. Prior to conducting tests, hardness and alkalinity were measured in each of the site waters. Nitrate concentrations were measured in all test solutions at test initiation as well as upon termination.

Statistical analyses were conducted using measured concentrations of nitrate and using CETIS version 1.8 (Tidepool Software).

2.1 *Ceriodaphnia dubia* toxicity tests

Toxicity tests with *Ceriodaphnia dubia* were conducted according to Environment Canada (2007) guidelines, and following methods summarized in Table 1.

Table 1. Summary of test conditions: 7-d *Ceriodaphnia dubia* test.

Test type	Static renewal (daily)
Endpoints	Survival and reproduction
Organism source	In-house culture
Organism age	<24 hr old neonates
Feeding	*Pseudokirchneriella subcapitata* and dYCT (digested yeast, cereal leaves and trout chow)
Test chamber	20 mL glass test tube
Test volume	15 mL
Test temperature	25±1°C
Control water	20% Perier water; Unspiked site water
Number of organisms/replicate	1 neonate
Number of replicates	10
Photoperiod	16 hours light/8 hours dark
Aeration	None
Test protocol	Environmental Canada (2007); EPS 1/RM/21
Test acceptability criterion for controls	≥80% survival; ≥15 young per surviving control

2.2 Fathead minnow toxicity tests

Toxicity tests using fathead minnows were conducted according to Environment Canada (2011) guidelines for this species and following methods summarized in Table 2.

Table 2. Summary of test conditions: 7-d fathead minnow survival and growth test.

Test organism	*Pimephales promelas*
Test organism source	Aquatic BioSystems, Fort Collins, CO
Test organism age	<24 hr post hatch
Test type	Static-renewal (daily)
Test duration	7 days
Test vessel	375-mL glass jars
Test Treatment	200 mL
Test replicates	3
No. of organisms	10 per replicate
Test temperature	25 ± 1°C
Feeding	*Artemia*, twice daily
Photoperiod	16 hours light/8 hours dark
Aeration	None
Test protocol	Environment Canada (2011); EPS 1/RM/22
Test endpoints	Survival and dry weight
Test acceptability criterion for controls	Mean control survival of ≥80% and ≥0.25 mg/fish dry weight

3.0 RESULTS AND DISCUSSION

3.1 Toxicity tests using lake water

Measured concentrations were in good agreement with target concentrations of nitrate; the average of the measured concentrations from each test were within 10% of nominal values. Measured concentrations of nitrate are summarized in Appendix A. All of the tests met acceptance criteria specified in the test methods.

Results of the toxicity tests using *Ceriodaphnia dubia* are provided in Table 3 and in Appendix B. The sample that exhibited the greatest sensitivity to nitrate was the one with the lowest hardness (i.e., Slipper Lake), with higher hardness samples exhibiting lower sensitivities to nitrate. However, a consistent pattern of decreasing sensitivity with increasing hardness was not apparent between the higher hardness lakes. The IC25 for reproduction in Slipper Lake was unusually low in relation to the IC50 for this sample, and appears to be anomalous. For example, the IC25 values from the tests with the other lake waters were within a factor of two to four of the IC50, whereas the IC25 of the Slipper Lake sample was more than ten-fold lower than the IC50, suggesting that it was an anomalous finding. Indeed, the very wide confidence intervals associated with IC25 from this test indicate a low degree of confidence in this estimate. This test was repeated, and the results of this subsequent test are provided in Section 4.0.

Results of the toxicity tests using fathead minnows are provided in Table 4 and in Appendix C. For this species, there was very little effect of hardness on sensitivity to nitrate. In the case of the lowest hardness lake water (i.e., Slipper Lake), there were no adverse effects up to, and including, the highest concentration tested (413 mg/L NO_3-N); higher concentrations of nitrate were not tested for this sample, since a greater degree of sensitivity to nitrate had been anticipated based on the results of previous tests in laboratory waters with a range of hardnesses.

Table 3. Results of *Ceriodaphnia dubia* toxicity tests using lake water samples.

Endpoint	Slipper	Nema	Moose	Leslie
Hardness (mg/L)	28	70	74	138
7-d LC50 (mg/L NO3-N)	>80	>329	>319	>278.5
7-d IC50 (mg/L NO3-N)	57.8 (33.8-NC)	74.1 (53.9-101.7)	150.9 (85.4-181.6)	121.4 (70.7–167.6)
7-d IC25 (mg/L NO3-N)	4.2 (1.7-39.7)	48.4 (14.2 -59.6)	57.2 (25.2-109.9)	31.6 (11.2-49.8)

Notes: LC50 is the concentration that is estimated to be lethal to 50% of exposed organisms.

ICx is the concentration that inhibits reproduction by x%

Values in parentheses indicate the 95% confidence intervals

> indicates that the value exceeds the reported value

NC indicates that the confidence interval was not calculable

Table 4. Results of fathead minnow toxicity tests using lake water samples.

Endpoint	Slipper	Nema	Moose	Leslie
Hardness (mg/L)	30	70	78	138
7-d LC50 (mg/L NO3-N)	>413	414 (328.7-521.4)	443.0 (358.2-547.8)	685.4 (576.9-814.4)
7-d IC50 (mg/L NO3-N)	>413	453.9 (348.2-591.7)	437.9 (373.2-513.8)	556.7 (478.4-647.8)
7-d IC25 (mg/L NO3-N)	>413	280.9 (155.6-394.6)	357.3 (254.6-421.7)	420.1 (326.6-495.9)

Notes: LC50 is the concentration that is estimated to be lethal to 50% of exposed organisms.

ICx is the concentration that inhibits reproduction by x%

Values in parentheses indicate the 95% confidence intervals

> indicates that the value exceeds the reported value

The pattern of effect with respect to decreased sensitivity to nitrate with increasing water hardness was not the same in the site waters as had been previously reported for laboratory-prepared waters. However, the sensitivity of both *Ceriodaphnia* and fathead minnows to nitrate was lower than anticipated in the site waters, particularly in the soft water associated with Slipper Lake. Figures 1 and 2 provide a comparison of results of the site water tests to the results from the tests that were conducted previously in laboratory water. The proposed site-specific water quality objective was based on the earlier tests conducted in laboratory water. The sensitivity of both species was consistently lower in the lake waters (i.e., it required more nitrate to exhibit an adverse effect) than was the case in the laboratory waters (Figures 1 and 2). Thus, it appears that a modifying factor resulted in reduced toxicity of nitrate, over and above that observed previously as a function of water hardness.

Figure 1. IC50 for reproduction of *Ceriodaphnia dubia* in lake water tests compared with laboratory water tests, shown on the basis of the water hardness. The lines shown reflect exponential relationships through the data.

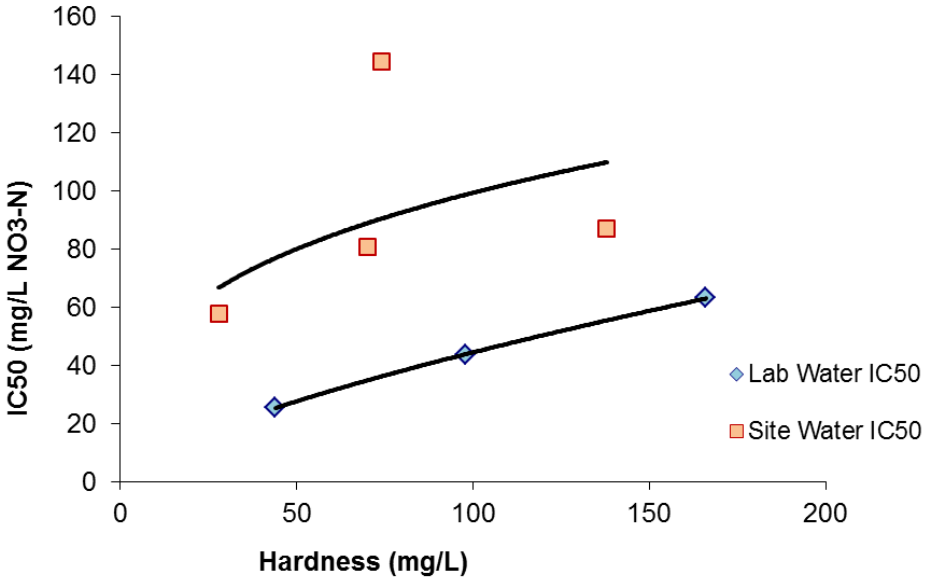
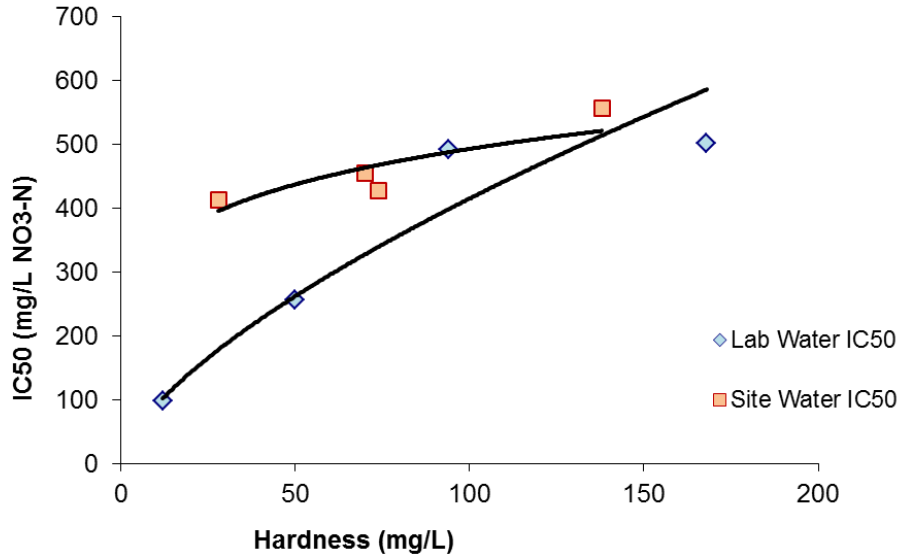


Figure 2. IC50 for growth of fathead minnows in lake water tests compared with water tests, shown on the basis of the water hardness. The lines shown reflect exponential relationships through the data.



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3.2 Follow up tests to evaluate effects of ionic composition

The results of testing using the lake waters indicated that the test organisms were less sensitive to nitrate in the lake water samples than they had been in tests conducted previously using laboratory-prepared waters at similar hardness, particularly under conditions of low hardness. In addition, the reduction in toxicity associated with increased hardness was not as pronounced, particularly with fathead minnows. These results suggested that either:

1. the balance of major ions in the site water samples altered the relationship between water hardness and toxicity of nitrate; or
2. that some other modifying factor was present in the lake waters that further reduced toxicity in the samples (i.e., in addition to the effect of hardness).

The actual mechanism behind the reduction in toxicity of nitrate with increasing water hardness has not previously been established. The higher hardness waters tested previously contained increased concentrations of a variety of major ions, including calcium, magnesium, sodium, potassium, bicarbonate, chloride and sulphate. Any one, or a combination of these ions may explain the reduction in toxicity of nitrate as hardness increases, and differences between the balance of major ions in site waters, as compared to the laboratory waters used originally, may explain the lower toxicity observed in the site waters.

In order to demonstrate whether the lower toxicity observed in site water related to a different balance of major ions in the site water compared to the laboratory water, tests were conducted with two laboratory-prepared waters of the same hardness: one that was similar in ionic composition to the laboratory water that was originally tested (Lab Blend), and the other that had a balance of major ions that was consistent with Slipper Lake (Slipper Blend). The waters were prepared by addition of reagent grade salts ($CaSO_4$, Na_2SO_4, $NaHCO_3$, $MgCl_2$, NaCl and KCl) to deionized water in order to achieve the target blend of ions. Since both of these waters were prepared in the laboratory, the results could be used to establish whether the lower sensitivity observed with Slipper Lake water resulted from differences in the ionic composition of the water.

The sensitivity of fathead minnows to nitrate was tested in these two water types; results from these tests are shown in Figure 3, along with the data shown previously for Slipper Lake. The hardness of the Slipper Blend and Lab Blend waters was very similar (22 and 20 mg/L, respectively), and similar to that measured in the Slipper Lake sample (28 mg/L). The IC50 in

the Slipper Blend and the Slipper Lake samples were similar to one another (421 and >413 mg/L NO3-N, respectively); these values are approximately three fold higher than the IC50 in the Lab Blend water (165 mg/L NO3-N) (Table 5).

Figure 3. IC50 for growth of fathead minnows "Lab blend" and "Slipper blend" waters, compared to the test with Slipper Lake water.

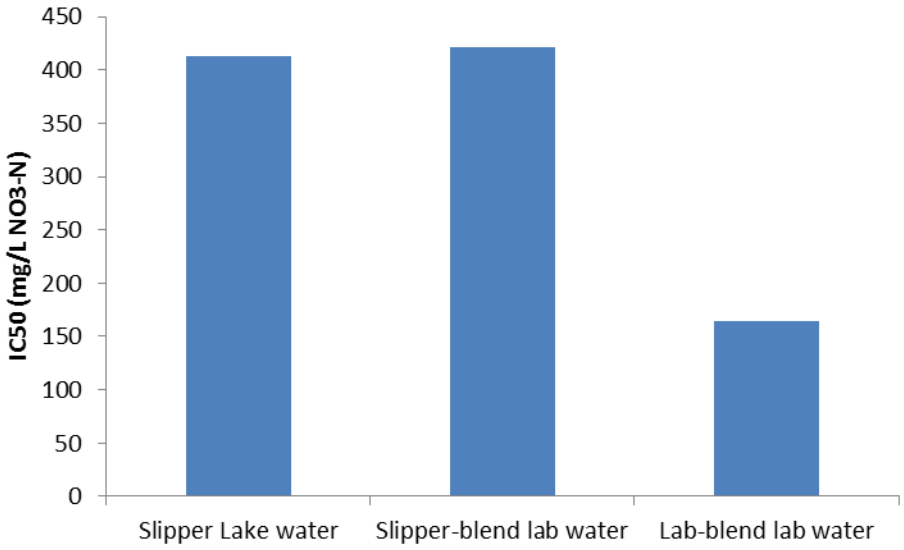

Table 5. Results of fathead minnow toxicity tests.

Endpoint	Lab Blend	Slipper Blend
Hardness (mg/L)	20	22
7-d LC50 (mg/L NO3-N)	161.1 (143.4–181.0)	452.9 (405.5-505.9)
7-d IC50 (mg/L NO3-N)	164.9 (143.2-189.9)	421.2 (NC)
7-d IC25 (mg/L NO3-N)	135.6 (75.3-163.5)	390 (NC)

Notes: LC50 is the concentration that is estimated to be lethal to 50% of exposed organisms.

ICx is the concentration that inhibits reproduction by x%

Values in parentheses indicated the 95% confidence intervals

NC indicates that the confidence intervals were not calculable

Thus, the results indicate that the difference in sensitivity to nitrate observed between laboratory and site waters relates to differences in ionic balance. Specifically, the balance of major ions (calcium, magnesium, sodium, potassium, bicarbonate, chloride and sulphate) observed in lake waters at the site reduced the sensitivity of fathead minnows to nitrate more

than would be expected if the effect was caused entirely by water hardness (i.e., calcium and magnesium), suggesting that some other major ion is regulating toxicity of nitrate in these samples. Based on a review of the ionic balance of the two water types, that other ion is likely either chloride or potassium because these ions were both higher in the "Slipper blend" water than the "Lab blend". Chloride would appear to be the most likely modifying factor, because this is anionic and may compete with nitrate for uptake sites; chloride has previously been demonstrated to exhibit a significant effect on toxicity of nitrite (BCMoE, 2009).

The results presented here demonstrate that a Site Specific Water Quality Objective that is calculated on the basis of the laboratory water tests provides a conservative assessment of risk associated with this anion.

4.0 QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC)

Reference toxicant tests (positive control) were conducted using *C. dubia* and *P. promelas* using sodium chloride as the toxicant. These tests were conducted using similar procedures to those described in section 2.0 for the samples and are used to assess the sensitivity of the test organisms and evaluate consistency of laboratory performance. Results of reference toxicant tests are provided in Table 6. In each case, the reference toxicant test result fell within the range of historical data from the laboratory (mean ± 2 SD), indicating that the sensitivity of the test organisms was appropriate. Water quality characteristics (dissolved oxygen, pH, temperature) remained within suitable ranges throughout the tests.

The results of the initial test with *Ceriodaphnia dubia* using Slipper Lake water demonstrated a large difference (more than ten-fold) between the IC25 and IC50 for reproduction, which appeared to be anomalous based on the results from the other tests. Consequently, this test was repeated using the same sample approximately three weeks later. The IC25 and IC50 for the second test were 52.7 and 102.5 mg/L NO_3-N, respectively, indicating a two-fold difference between the IC25 and IC50, similar to the other samples. Thus, the initial IC25 obtained with this sample does indeed appear to be anomalous.

The geometric mean of the two IC25 values reported here (i.e., 4.2 and 52.7 mg/L) for tests conducted in Slipper Lake water appears appropriate for use in evaluating the sensitivity of nitrate to *C. dubia* in water from this lake. The geometric mean IC25 was 14.9 mg/L NO_3-N.

Table 6. Reference toxicant test results.

Species	Date	Toxicant	Point estimate	Acceptable Range	CV
C. dubia; IC25 reproduction	13/9/2011	NaCl	1.3 g/L	0.9 – 1.5 g/L	15
P. promelas; IC25 growth	15/9/2011	NaCl	3.8 g/L	3.0 – 5.6 g/L	17
P. promelas; IC25 growth	2/11/2011	NaCl	3.8 g/L	3.0 – 5.5 g/L	17

The acceptable range reflects the two standard deviations surrounding the mean performance of the last 20 tests conducted in the laboratory.

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APPENDIX A – Summary of measured nitrate concentrations

Ceriodaphnia Test Initation

Target	Actual Slipper	Target	Actual Moose	Target	Actual Nema	Target	Actual Leslie
0	0.0129	0	1.19	0	0.526	0	2.9
1.25	1.22	5	5.92	5	5.38	5	7.69
2.5	2.46	10	10.6	10	10.1	10	13.6
5	4.85	20	20.1	20	19.6	20	24.7
10	10.2	40	37.9	40	39.7	40	45
20	20.4	80	81.2	80	78.1	80	81.2
40	40.6	160	158	160	157	160	156
80	81.9	320	323	320	346	320	276

Ceriodaphnia Test Termination

Target	Actual Slipper	Target	Actual Moose	Target	Actual Nema	Target	Actual Leslie
0	1.48	0	3.88	0	0.302	0	2.73
1.25	1.38	5	6.07	5	5.68	5	7.32
2.5	2.56	10	9.84	10	14.8	10	11.9
5	5.05	20	23.8	20	22.1	20	21.1
10	9.99	40	45.8	40	49.7	40	42.3
20	19.6	80	105	80	95.4	80	78.6
40	36.7	160	138	160	156	160	156
80	63.2	320	315	320	312	320	281

Fathead Minnow Test Initation

Target	Actual Slipper	Target	Actual Moose	Target	Actual Nema	Target	Actual Leslie
Control	0.0169	Control	1.27	Control	0.407	Control	2.73
12.5	12.1	25	27.7	25	22.1	25	25.8
25	24.1	50	53.8	50	56.1	50	47.7
50	49.3	100	97.6	100	98.6	100	80.4
100	94.3	200	207	200	207	200	202
200	199	400	402	400	452	400	394
400	413	800	763	800	803	800	770

Fathead Minnow Tests Round 2

Intiation		Initation		Termination		Termination	
Target	Actual Lab	Target	Actual Slipper	Target	Actual Lab	Target	Actual Slipper
Control	0.0185	Control	0.011	Control	0.0728	Control	0.0734
50	49.6	50	49.7	50	55.7	50	53.3
100	98.4	100	99.9	100	111	100	111
200	200	200	218	200	209	200	211
400	394	400	398			400	433
800	745	800	752				

APPENDIX B – *Ceriodaphnia dubia* tests

Ceriodaphnia dubia Summary Sheet

Client: Ekati (Rescan)
Work Order No.: 11433

Start Date/Time: Sept 11/11 @ 1500h
Set up by: AWD

Sample Information:

Sample ID: Slipper
Sample Date: Sept 5/11
Date Received: Sept 9/11
Sample Volume: 6 X20 L

Test Validity Criteria:

1) Mean survival of first generation controls is ≥80 %
2) At least 60% of controls have produced three broods within 8 days
3) An average of ≥15 live young produced per surviving female in the control solutions during the first three broods.
4) Invalid if ephippia observed in any control solution at any time.

WQ Ranges:

T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4 ; pH = 6 to 8.5

Test Organism Information:

Broodstock No.: 090111
Age of young (Day 0): <24-h (within 12-h)
Avg No. young in first 3 broods of previous 7 d: 27
Mortality (%) in previous 7 d: 0
Individual female # used ≥8 young on test day: 22, 25, 26, 27, 28, 29, 31

NaCl Reference Toxicant Results:

Reference Toxicant ID: Cd 72
Stock Solution ID: 11 Na01
Date Initiated: Sept 13/11

7-d LC50 (95% CL): 2.0 (1.7-23.) g/L NaCL
7-d IC50 (95% CL): 1.3 (1.2-1.5) g/L NaCL

7-d LC50 Reference Toxicant Mean and Historical Range: 1.8 (1.5-2.3) g/L NaCL CV (%): 12
7-d IC50 Reference Toxicant Mean and Historical Range: 1.2 (0.9-1.5) g/L NaCL CV (%): 15

Test Results:

	Survival	Reproduction
LC50 mg/L N (95% CL)	>80	
IC25 mg/L N (95% CL)		4.2 (1.7-39.7)
IC50 mg/L N (95% CL)		57.8 (33.8-n/a)

Reviewed by: [signature]

Date reviewed: 31/1/2012

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: EKATI
Sample ID: Slipper
Work Order #: 11433

Start Date & Time: Sept 11/11 @ 1500h
Stop Date: Sept 17/11 @ 1845h
Test Species: *Ceriodaphnia dubia*

mg/L N Concentration 0	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	25.0	25.0	24.0	25.5	24.5	25.0	24.0	25.0	24.0	25.0	24.0	25.0		
DO (mg/L)	7.7	7.8	8.0	7.7	7.9	7.6	7.1	7.0	7.9	7.0	7.8	6.7		
pH	7.2	8.1	7.1	7.1	7.2	6.9	7.2	6.7	7.2	7.0	7.4	7.2		
Cond. (µS/cm)	161	149		149		147		151		150		165		
Initials	AD	KLB		GHP		GHP		GHP		KLB		AD		

Concentration 1.25	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	25.0	25.0	24.0	25.5	24.5	25.0	24.0	25.0	24.0	25.0	24.0	25.0		
DO (mg/L)	7.6	7.8	8.1	7.6	8.0	7.6	7.4	7.0	8.0	6.9	7.8	6.9		
pH	7.2	7.5	7.1	7.1	7.1	7.0	7.0	6.8	7.2	7.0	7.4	7.2		
Cond. (µS/cm)	162	160		159		157		161		160		158		
Initials	AD	KLB		GHP		GHP		GHP		KLB		AD		

Concentration 10	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.5	25.0	24.0	25.5	24.5	25.0	24.0	25.0	24.0	25.0	24.0	25.0		
DO (mg/L)	7.7	7.8	8.1	7.5	8.0	7.7	7.6	7.0	8.1	6.9	7.9	7.0		
pH	7.1	7.5	7.1	7.0	7.1	7.0	6.9	6.8	7.2	7.0	7.3	7.1		
Cond. (µS/cm)	230	225		231		233		230		235		228		
Initials	AD	KLB		GHP		GHP		GHP		KLB		AD		

Concentration 80	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.5	25.0	24.0	25.5	24.5	25.0	24.0	25.0	24.0	25.0	24.0	25.0		
DO (mg/L)	7.7	7.8	8.3	7.5	8.0	7.6	7.8	7.0	8.2	6.9	8.0	7.4		
pH	7.1	7.4	7.1	7.0	7.1	7.0	6.9	6.8	7.2	6.9	7.2	7.1		
Cond. (µS/cm)	796	776		784		752		780		773		728		
Initials	AD	KLB		GHP		GHP		GHP		KLB		AD		

	Control	100% Slipper		
Hardness*	100	28		
Alkalinity*	62	8		

* mg/L as CaCO3

Analysts: AD, KLB, GHP
Reviewed by:
Date reviewed:

WQ Ranges: T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4 (mg/L) ; pH = 6 to 8.5

Sample Description: Sodium nitrate spiked light yellow - followed @ 0.45µm

Comments: **Broodboard Used:** 09 of 11

Chronic Freshwater Toxicity Test
C. dubia Reproduction Data

Client: EXATI
Sample ID: Slipper
Work Order: 11433

Start Date & Time: Sept 11/11 @ 1500h
Stop Date & Time: Sept 17/11 @ 1445h
Set up by: AWD

mg/L N

Concentration: 20% Perrier Ctrl

Days	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
4	4	5	3	2	3	4	✓	3	3	✓	KLB
5	6	5	9	7	9	7	6	8	9	7	KLB
6	6	✓	7	✓	6	6	10	7	5	9	Am
7											
8											
Total	16	10	19	9	18	17	16	18	17	16	KLB

Concentration: 0

Days	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
4	3	2	4	✓	4	4	3	✓	✓	4	KLB
5	6	5	6	4	9	10	9	10	6	7	KLB
6	7	8	6	6	8	✓	6	4	8	5	Am
7											
8											
Total	16	15	16	10	21	14	18	14	14	16	KLB

Concentration: 1.25

Days	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
4	4	4	3	✓	✓	✓	✓	✓	✓	✓	KLB
5	✓	✓	✓	7	5	4	6	4	7	7	KLB
6	8	9	7	9	9	10	8	7	6	7	Am
7											
8											
Total	12	13	10	16	14	14	15	11	13	14	KLB

Concentration: 2.5

Days	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
4	3	3	✓	4	3	✓	4	3	✓	✓	KLB
5	7	7	6	10	9	5	4	8	5	6	KLB
6	6	5	✓	✓	✓	6	✓	7	7	6	Am
7											
8							KLB				
Total	16	15	6	14	12	11	~~12~~ 8	18	12	12	KLB

Concentration: 5

Days	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
4	3	3	✓	✓	✓	2	✓	3	✓	✓	KLB
5	✓	✓	✓	4	6	9	5	9	5	5	KLB
6	7	8	6	9	7	✓	8	7	✓	6	Am
7											
8											
Total	10	11	6	13	13	11	13	19	5	11	KLB

Concentration: 10

Days	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
4	4	3	3	✓	4	4	✓	3	3	✓	KLB
5	✓	✓	✓	5	10	10 KLB	4	✓	✓	3	KLB
6	6	8	7	7	✓	~~5~~ 9	9	7	6	8	Am
7											
8											
Total	10	11	10	12	14	13	13	10	9	11	KLB

Concentration: 20

Days	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	X	✓	GHP
4	✓	2	3	6	✓	✓	✓	✓	|	✓	KLB
5	4	✓	5	✓	5	5	2	5	|	6	KLB
6	5	7	7	✓	9	~~2~~	~~7~~	~~7~~	|	6	Am
7											
8											
Total	9	9	15	8	14	13	9	12	0[X]	12	KLB

Concentration: 40

Days	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
4	✓	✓	✓	✓	✓	✓	✓	3	✓	3	KLB
5	X	3	6	4	3	8	5	7	5	✓	KLB
6	|	~~7~~	~~3~~	8	9	8	6	✓	~~7~~	~~3~~	Am
7											
8			11								
Total	0[X]	10	~~15~~ KLB	12	12	16	11	10	12	6	KLB

Concentration: 80

Days	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
4	✓	✓	✓	✓ KLB	✓	✓	✓	✓	✓	✓	KLB
5	X	4	3	~~4~~ ✓	4	4	7	✓	✓	6	KLB
6	|	~~7~~	4	3	3	3	5	✓	~~5~~	6	Am
7											
8											
Total	0[X]	11	7	3	7	7	12	0	5	12	KLB

Notes: X = mortality.

Sample Description: sodium nitrate spiked
Comments: Total # Young only based on the first 3 Broods. Fourth and subsequent broods not included in total count.

Reviewed by: _____ **Date reviewed:** _____

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	14-8234-1426	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	27 Oct-11 15:06	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	07-6166-5312	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	11 Sep-11 15:00	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	20% Perrier Water
Ending Date:	17 Sep-11 18:45	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 4h	**Source:**	In-House Culture	**Age:**	<24h
Sample ID:	09-2649-5367	**Code:**	11432d	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	6d 15h	**Station:**	Slipper		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	87955339	200	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	0.9257	0.8572	2.229	108	44.85	116.7
IC10	1.119	0.971	3.93	89.37	25.44	103
IC15	1.438	1.092	6.622	69.56	15.1	91.6
IC20	2.641	1.22	21.76	37.86	4.595	81.98
IC25	4.185	1.731	39.67	23.9	2.521	57.77
IC40	44.17	14.54	71.26	2.264	1.403	6.88
IC50	57.84	33.83	N/A	1.729	N/A	2.956

Reproduction Summary — **Calculated Variate**

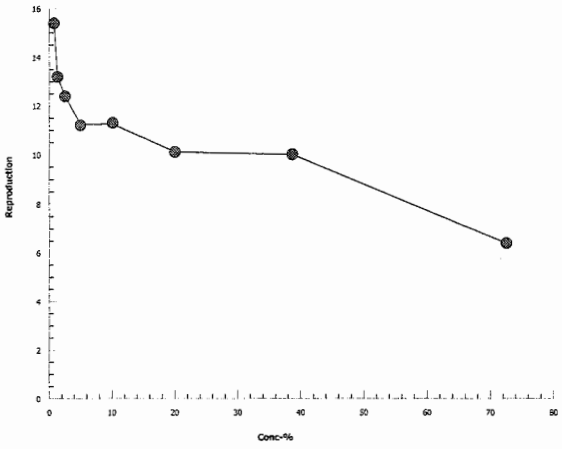
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0.75	Dilution Water	10	15.4	10	21	0.9092	2.875	18.67%	0.0%
1.3		10	13.2	10	16	0.5735	1.814	13.74%	14.29%
2.51		10	12.4	6	18	1.137	3.596	29.0%	19.48%
4.95		10	11.2	5	19	1.236	3.91	34.91%	27.27%
10.1		10	11.3	9	14	0.5175	1.636	14.48%	26.62%
20		10	10.1	0	15	1.354	4.28	42.38%	34.42%
38.65		10	10	0	16	1.358	4.295	42.95%	35.06%
72.55		10	6.4	0	12	1.416	4.477	69.95%	58.44%

Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0.75	Dilution Water	16	15	16	10	21	14	18	14	14	16
1.3		12	13	10	16	14	14	15	11	13	14
2.51		16	15	6	14	12	11	8	18	12	12
4.95		10	11	6	13	13	11	13	19	5	11
10.1		10	11	10	12	14	13	13	10	9	11
20		9	9	15	8	14	13	9	12	0	12
38.65		0	10	11	12	12	16	11	10	12	6
72.55		0	11	7	3	7	7	12	0	5	12

Analysis ID:	14-8234-1426	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	27 Oct-11 15:06	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia dubia Summary Sheet

Client: Ekati (Rescan)
Work Order No.: 11433

Start Date/Time: Sept 30/11 @ 1300h
Set up by: KLB

Sample Information:

Sample ID: Slipper
Sample Date: Sept 5/11
Date Received: Sept 9/11
Sample Volume: 6x 20L

Test Validity Criteria:

1) Mean survival of first generation controls is ≥80 %
2) At least 60% of controls have produced three broods within 8 days
3) An average of ≥15 live young produced per surviving female in the control solutions during the first three broods.
4) Invalid if ephippia observed in any control solution at any time.

WQ Ranges:

T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4 ; pH = 6 to 8.5

Test Organism Information:

Broodstock No.: 92111
Age of young (Day 0): <24-h (within 12-h)
Avg No. young in first 3 broods of previous 7 d: 28
Mortality (%) in previous 7 d: 5
Individual female # used ≥8 young on test day: 5, 8, 10, 11, 13, 16

NaCl Reference Toxicant Results:

Reference Toxicant ID: Cd 73
Stock Solution ID: 11 Na01
Date Initiated: Oct 13/11

7-d LC50 (95% CL): 1.7 (1.4 - 2.1) g/L NaCL
7-d IC50 (95% CL): 1.2 (1.0 - 1.3) g/L NaCL

7-d LC50 Reference Toxicant Mean and Historical Range: 1.8 (1.5 - 2.3) g/L NaCL CV (%): 12
7-d IC50 Reference Toxicant Mean and Historical Range: 1.2 (0.9 - 1.5) g/L NaCL CV (%): 14

Test Results:

	Survival	Reproduction
LC50 ~~%(v/v)~~ mg/L NaCl (95% CL)	>80	
IC25 ~~%(v/v)~~ mg/L NaCl (95% CL)		52.74 (11.6 - 67.4)
IC50 ~~%(v/v)~~ mg/L NaCl (95% CL)		102.5 (78.7 - 128.6)

Reviewed by: [signature]

Date reviewed: 31/1/2012

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Ekati (Rescan)
Sample ID: Slipper (NaNO3 spiked)
Work Order #: 11433

Start Date & Time: Sept 30/11 @1300h
Stop Date: Oct 7/11 @1635h
Test Species: *Ceriodaphnia dubia*

mg/L N Concentration 0	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	24.5	24.0	24.5	24.0	25.0	24.0	24.5	24.0	24.5	24.0	24.0	24.0	25.0
DO (mg/L)	7.7	7.6	7.8	7.3	7.7	7.3	8.0	7.4	8.2	6.9	7.6	6.7	8.0	7.6
pH	7.2	7.2	7.5	7.3	7.2	7.1	7.4	7.0	7.5	7.0	7.5	6.9	7.3	7.3
Cond. (µS/cm)	149	145		145		146		145		146		147		149
Initials	KLB	KLB		KLB		KLB		KLB		KLB		KLB		M

Concentration 2.5	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	24.5	24.0	24.5	24.0	25.0	24.0	24.5	24.0	24.5	24.0	24.0	24.0	25.0
DO (mg/L)	7.8	7.7	7.8	7.3	7.8	7.4	8.0	7.4	8.0	7.0	7.6	6.8	8.0	7.6
pH	7.2	7.2	7.2	7.3	7.2	7.1	7.4	7.0	7.4	7.0	7.4	6.9	7.3	7.2
Cond. (µS/cm)	163	167		167		166		167		166		169		169
Initials	KLB	KLB		KLB		KLB		KLB		KLB		KLB		M

Concentration 20	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	24.5	24.0	24.5	24.0	25.0	24.0	24.5	24.0	24.5	24.0	24.0	24.0	25.0
DO (mg/L)	7.8	7.7	7.8	7.3	7.8	7.4	8.0	7.4	8.1	7.0	7.6	6.8	8.0	7.8
pH	7.2	7.2	7.2	7.3	7.2	7.1	7.3	7.0	7.4	7.0	7.4	6.9	7.3	6.9
Cond. (µS/cm)	296	301		315		307		304		307		301		296
Initials	KLB	KLB		KLB		KLB		KLB		KLB		KLB		M

Concentration 160	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	24.5	24.5	24.5	24.5	25.0	24.5	24.5	24.5	24.5	24.0	24.0	24.0	25.0
DO (mg/L)	7.9	7.7	7.8	7.4	7.8	7.4	7.9	7.3	8.0	7.0	7.5	6.9	8.1	7.9
pH	7.1	7.2	7.2	7.3	7.2	7.1	7.3	7.0	7.3	7.0	7.3	6.9	7.2	7.0
Cond. (µS/cm)	1398	1385		1387		1389		1348		1364		1379		1340
Initials	KLB	KLB		KLB		KLB		KLB		KLB		KLB		M

	Control	Slipper (not NaNO3 spiked)		
Hardness*	96			
Alkalinity*	82			

* mg/L as CaCO3

Analysts: KLB,

Reviewed by:

Date reviewed:

WQ Ranges: T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4 (mg/L) ; pH = 6 to 8.5

Sample Description: Slipper water spiked w/ NaNO3

Comments: **Broodboard Used:** 092111

Chronic Freshwater Toxicity Test
C. dubia Reproduction Data

Client: Ekati (Rescan)
Sample ID: Slipper (NaNO3 spiked)
Work Order: 11433

Start Date & Time: Sept 30/11 @ 1300h
Stop Date & Time: Oct 4/11 @ 1675h
Set up by: KLB

mg/L N

Days	Concentration: 20% Perrier Control										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	4	✓	3	✓	✓	✓	✓	✓	2	✓	KLB
5	✓	5	✓	5	4	5	2	5	~~7~~ KLB	5	KLB
6	9	10	7	10	9	10	✓	8	14 KLB	11	KLB
7	7	7	6	✓	✓	✓	6	6	✓	7	~
8											
Total	30	22	18	15	13	15	8	19	23	23	KLB

Days	Concentration: 0										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	✓	4	✓	✓	✓	✓	✓	✓	6	✓	KLB
5	5	7	6	4	4	5	4	4	✓	5	KLB
6	10	11	10	7	8	10	10	10	11	9	KLB
7	7	✓	✓	✓	✓	✓	✓	✓	4	7	~
8											
Total	22	22	16	11	12	15	14	14	26	21	KLB

Days	Concentration: 2.5										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	3	3	✓	✓	✓	✓	✓	✓	4	2	KLB
5	8	7	4	6	5	3	5	9	✓	9	KLB
6	12	✓	9	12	12	9	10	11	11	13	KLB
7	✓	5	✓	✓	✓	✓	✓	✓	8	✓	~
8											
Total	23	15	13	18	17	12	15	15	23	24	

Days	Concentration: 5										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	KLB	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	✓	23 KLB	✓	✓	✓	✓	✓	✓	4	4	KLB
5	4	✓	5	4	4	4	3	4	✓	✓	KLB
6	9	7	11	8	10	9	6	11	11	12	KLB
7	7	7	✓	✓	✓	✓	✓	✓	9	10	~
8											
Total	20	17	16	12	14	13	9	15	24	26	KLB

Days	Concentration: 10										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	5	5	~	~	~	~	~	~	~	5	KLB
5	✓	✓	4	4	5	4	3	4	3	✓	KLB
6	11	12	9	11	9	11	7	8	10	12	KLB
7	7	7	✓	✓	✓	✓	✓	~~5~~ 6	6	6	~
8											
Total	23	24	13	15	14	13	10	12	19	23	KLB

Days	Concentration: 20										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	KLB
4	6	2	~	~	2	~	|	~	3	5	KLB
5	✓	6	6	4	✓	4	|	5	4	✓	KLB
6	9	✓	12	10	7	9	|	10	✓	11	KLB
7	8	6	✓	5	✓	✓	|	✓	8	7	~
8											
Total	23	14	18	19	9	13	0 X	15	15	23	KLB

Days	Concentration: 40										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	✓	✓	✓	✓	✓	✓	✓	✓	✓	4	KLB
5	7	6	4	3	4	✓	3	4	9	✓	KLB
6	9	10	9	10	9	4	7	10	✓	10	KLB
7	✓	7	✓	✓	✓	6	✓	✓	6	5	~
8											
Total	16	23	13	13	13	10	10	14	15	19	KLB

Days	Concentration: 80										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	3	✓	✓	✓	✓	✓	✓	✓	2	~	KLB
5	5	2	3	4	4	3	4	4	6	2	KLB
6	✓	✓	✓	9	✓	7	~	✓	✓	7	KLB
7	6	6	6	✓	5	✓	5	7	7	✓	~
8											
Total	14	8	9	13	9	10	9	11	15	9	KLB

Days	Concentration: 160										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	KLB
4	✓	✓	✓	|	✓	✓	✓	✓	✓	✓	KLB
5	3	2	2	|	✓	✓	✓	✓	4	4	KLB
6	6	✓	X	|	2	2	✓	3	8	8	KLB
7	✓	4	|	|	✓	3	✓	✓	✓	~
8											
Total	9	6	2 X	0 X	2	5	0	3	12	12	KLB

Notes: X = mortality.

Sample Description: Slipper water spiked with NaNO3
Comments: Total # Young only based on the first 3 Broods. Fourth and subsequent broods not included in total count.

Reviewed by: _____ **Date reviewed:** _____

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	21-1576-3138	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:47	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	07-0383-6561	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	30 Sep-11 13:01	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	20% Perrier Water
Ending Date:	07 Oct-11 13:00	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	7d	**Source:**	In-House Culture	**Age:**	
Sample ID:	09-2649-5367	**Code:**	11432d	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	25d 13h	**Station:**	Slipper		

Batch Note: Nominal Concentrations for Slipper Repeat

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	157147321	200	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC10	14.98	1.344	44.26	6.674	2.259	74.4
IC15	25.84	2.763	48.77	3.87	2.05	36.2
IC25	52.74	11.63	67.39	1.896	1.484	8.595
IC40	82.63	53.24	96.19	1.21	1.04	1.878
IC50	102.5	78.71	128.6	0.9754	0.7776	1.27

Reproduction Summary — **Calculated Variate**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Dilution Water	10	17.3	11	26	1.599	5.056	29.23%	0.0%
2.5		10	17.5	12	24	1.384	4.378	25.02%	-1.16%
5		10	16.6	9	26	1.688	5.337	32.15%	4.05%
10		10	16.8	10	24	1.604	5.073	30.2%	2.89%
20		10	14.9	0	23	2.157	6.822	45.79%	13.87%
40		10	14.6	10	23	1.258	3.978	27.24%	15.61%
80		10	10.7	8	15	0.7753	2.452	22.91%	38.15%
160		10	5.1	0	12	1.441	4.557	89.35%	70.52%

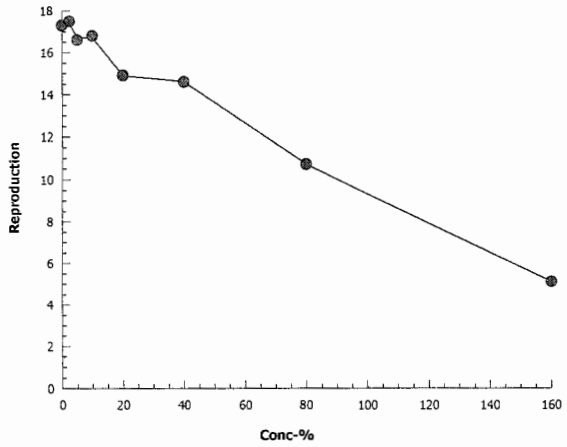
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0	Dilution Water	22	22	16	11	12	15	14	14	26	21
2.5		23	15	13	18	17	12	15	15	23	24
5		20	17	16	12	14	13	9	15	24	26
10		23	24	13	15	14	15	10	12	19	23
20		23	14	18	19	9	13	0	15	15	23
40		16	23	13	13	13	10	10	14	15	19
80		14	8	9	13	9	10	9	11	15	9
160		9	6	2	0	2	5	0	3	12	12

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	21-1576-3138	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:47	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia dubia Summary Sheet

Client: Ekati (Rescan) Start Date/Time: Sept 30/11 @ 1300h

Work Order No.: 11433 Set up by: KLB

Sample Information:

Sample ID: Nema
Sample Date: Sept 5/11
Date Received: Sept 9/11
Sample Volume: 6x 20L

Test Validity Criteria:

1) Mean survival of first generation controls is ≥80 %
2) At least 60% of controls have produced three broods within 8 days
3) An average of ≥15 live young produced per surviving female in the control solutions during the first three broods.
4) Invalid if ephippia observed in any control solution at any time.

WQ Ranges:

T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4 ; pH = 6 to 8.5

Test Organism Information:

Broodstock No.: 90111
Age of young (Day 0): <24-h (within 12-h)
Avg No. young in first 3 broods of previous 7 d: 33
Mortality (%) in previous 7 d: 5
Individual female # used ≥8 young on test day: *34, 35, 36, 37, 39, 40*

NaCl Reference Toxicant Results:

Reference Toxicant ID: Cd 72
Stock Solution ID: 11 Na01
Date Initiated: Sept 13/11

7-d LC50 (95% CL): 2.0 (1.7 - 2.3) g/L NaCL
7-d IC50 (95% CL): 1.3 (1.2 - 1.5) g/L NaCL

7-d LC50 Reference Toxicant Mean and Historical Range: 1.8 (1.5 - 2.3) g/L NaCL CV (%): 12
7-d IC50 Reference Toxicant Mean and Historical Range: 1.2 (0.9 - 1.5) g/L NaCL CV (%): 15

Test Results:

	Survival	Reproduction
LC50 mg/L N (95% CL)	>329	
IC25 mg/L N (95% CL)		48.4 (14.2 - 59.6)
IC50 mg/L N (95% CL)		74.0 (53.9 - 101.7)

Reviewed by: Date reviewed: 31/1/2012

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

KLB 13

Client: EXATI
Sample ID: Nema
Work Order #: 11433

Start Date & Time: ~~Sept 12~~/11 @ 1330h
Stop Date: Sept 19/11 @ 1630h
Test Species: *Ceriodaphnia dubia*

mg/L N

Concentration 0	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	25.5	24.0	25.5	24.0	24.0	24.0	24.0	24.0	~~24.0~~	24.0	25.0		
DO (mg/L)	8.0	7.7	8.0	7.4	7.9	7.2	7.8	6.9	7.0	~~7.0~~	7.9	6.8		
pH	7.2	7.2	7.4	7.3	7.3	7.1	7.5	6.9	7.2	~~6.9~~	7.3	6.9		
Cond. (µS/cm)	340	340		344		344		339		345		337		
Initials	KLB	GHP		GHP		KLB		AM		AM		KLB		

Concentration 5	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	25.5	24.0	25.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	25.0		
DO (mg/L)	8.0	7.8	8.1	7.3	8.0	7.4	7.8	6.9	7.2	7.0	7.8	6.8		
pH	7.3	7.2	7.3	7.3	7.4	7.2	7.5	7.2	7.3	7.1	7.3	7.1		
Cond. (µS/cm)	381	377		384		386		385		392		384		
Initials	KLB	GHP		GHP		KLB		AM		AM		KLB		

Concentration 40	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	25.5	24.0	25.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	25.0		
DO (mg/L)	8.0	7.9	8.1	7.3	8.1	7.5	7.8	7.0	7.2	7.3	7.8	6.8		
pH	7.3	7.3	7.2	7.3	7.4	7.2	7.4	7.3	7.2	7.1	7.3	7.1		
Cond. (µS/cm)	655	638		649		671		623		703		723		
Initials	KLB	GHP		GHP		KLB		AM		AM		KLB		

Concentration 320	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	25.5	24.0	25.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	25.0		
DO (mg/L)	8.0	7.9	8.1	7.6	8.1	7.6	7.8	7.1	7.1	7.2	7.8	6.7		
pH	7.2	7.2	7.1	7.3	7.3	7.3	7.3	6.9	7.1	7.0	7.2	7.0		
Cond. (µS/cm)	2780	2740		2760		2760		2700		2760		2690		
Initials	KLB	GHP		GHP		KLB		AM		AM		KLB		

	Control	100% Nema		
Hardness*	100	70		
Alkalinity*	62	18		

* mg/L as CaCO3

Analysts: KLB, AM
Reviewed by:
Date reviewed:

WQ Ranges: T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4 (mg/L) ; pH = 6 to 8.5

Sample Description: Sodium nitrate spiked -

Comments: Broodboard Used: 090111

Chronic Freshwater Toxicity Test
C. dubia Reproduction Data

Client: EXATI
Sample ID: Nema
Work Order: 11433

mg/L N

Start Date & Time: Sept 13/11 @ 1330h
Stop Date & Time: Sept 19/11 @ 1630h
Set up by: KCB

Days	Concentration: 20% Perrier Ctrl										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KCB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	3	3	4	3	3	4	6	✓	3	✓	
5	✓	5	7	9	7	6	✓	3	8	6	
6	15	10	12	11	3	13	11	6	11	8	KCB
7											
8											
Total	18	18	23	23	13	23	17	9	22	14	KCB

Days	Concentration: 0										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KCB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	3	3	3	4	✓	3	3	3	4	2	
5	✓	8	6	8	7	6	4	8	✓	6	
6	14	13	✓	12	12	13	13	14	11	14	KCB
7											
8											
Total	17	24	9	24	19	22	20	25	15	22	KCB

Days	Concentration: 5										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KCB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	2	4	3	3	3	✓	3	3	3	3	
5	✓	7	8	8	8	7	✓	✓	7	✓	
6	3	15	14	✓	14	15	12	13	14	15	KCB
7											
8											
Total	5	26	25	11	25	22	15	16	24	23	KCB

Days	Concentration: 10										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KCB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	2	3	3	2	3	✓	3	✓	✓	4	
5	8	✓	7	7	✓	3	10	7	6	✓	
6	13	13	13	14	12	14	14	11	✓	14	KCB
7											
8											
Total	23	16	23	23	15	17	27	18	6	18	KCB

Days	Concentration: 20										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KCB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	✓	2	2	3	✓	✓	3	4	3	✓	
5	✓	7	6	✓	3	✓	6	8	✓	6	
6	14	13	2	13	23	X	✓	13	13	15	KCB
7											
8											
Total	14	21	10	16	23	✗	6	24	17	24	KCB

Days	Concentration: 40										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KCB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	4	✓	✓	3	✓	2	3	3	2	3	
5	✓	3	4	10	5	6	4	5	✓	✓	
6	14	8	✓	14	12	9	12	12	12	13	KCB
7											
8											
Total	18	11	4	23	17	17	19	20	14	16	KCB

Days	Concentration: 80										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KCB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	✓	2	✓	2	✓	3	2	✓	2	✓	
5	✓	6	6	7	✓	✓	✓	✓	✓	✓	
6	✓	✓	11	11	✓	9	7	12	✓	✓	KCB
7											
8											
Total	0	8	17	20	0	12	9	12	2	0	KCB

Days	Concentration: 160										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KCB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	2	✓	2	✓	✓	✓	✓	✓	✓	✓	
5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
6	10	✓	9	✓	✓	✓	✓	✓	✓	✓	KCB
7											
8											
Total	12	0	11	0	0	0	0	0	0	0	KCB

Days	Concentration: 320										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KCB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
5	✓	✓	✓	✓	✓	✓	3	✓	✓	✓	
6	✓	✓	✓	4	✓	5	6	✓	2	4	KCB
7											
8											
Total	0	0	0	4	0	5	9	0	2	4	KCB

Notes: X = mortality.

Sample Description: sodium nitrate spiked
Comments: Total # Young only based on the first 3 Broods. Fourth and subsequent broods not included in total count.

Reviewed by: _____ Date reviewed: _____

Ceriodaphnia 7-d Survival and Reproduction Test

Nautilus Environmental

Analysis ID:	00-5765-6066	**Endpoint:**	6d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 17:06	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	11-7889-7897	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	13 Sep-11 13:30	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	Nema
Ending Date:	19 Sep-11 16:30	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 3h	**Source:**	In-House Culture	**Age:**	<24h
Sample ID:	01-4449-7669	**Code:**	11432c	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	8d 14h	**Station:**	Nema		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1.167E+09	200	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC10	329	181.6	N/A	0.304	N/A	0.5506
EC15	>329	N/A	N/A	<0.304	N/A	N/A
EC25	>329	N/A	N/A	<0.304	N/A	N/A
EC50	>329	N/A	N/A	<0.304	N/A	N/A

6d Survival Rate Summary

Calculated Variate(A/B)

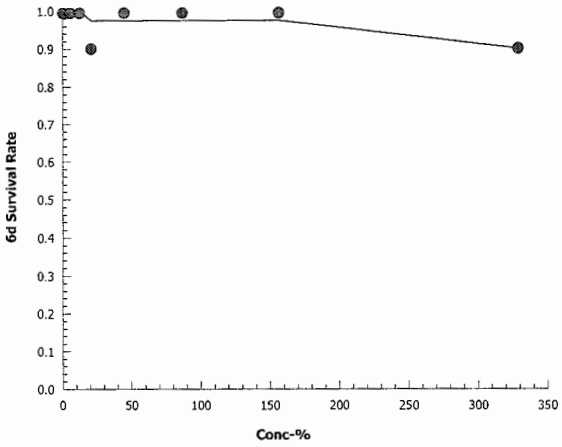
Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0.4	Negative Control	10	1	1	1	0	0	0.0%	0.0%	10	10
5.5		10	1	1	1	0	0	0.0%	0.0%	10	10
12.4		10	1	1	1	0	0	0.0%	0.0%	10	10
20.8		10	0.9	0	1	0.1	0.3162	35.14%	10.0%	9	10
44.7		10	1	1	1	0	0	0.0%	0.0%	10	10
86.8		10	1	1	1	0	0	0.0%	0.0%	10	10
156.5		10	1	1	1	0	0	0.0%	0.0%	10	10
329		10	0.9	0	1	0.1	0.3162	35.14%	10.0%	9	10

6d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0.4	Negative Control	1	1	1	1	1	1	1	1	1	1
5.5		1	1	1	1	1	1	1	1	1	1
12.4		1	1	1	1	1	1	1	1	1	1
20.8		1	1	1	1	1	0	1	1	1	1
44.7		1	1	1	1	1	1	1	1	1	1
86.8		1	1	1	1	1	1	1	1	1	1
156.5		1	1	1	1	1	1	1	1	1	1
329		1	1	1	1	1	1	1	0	1	1

Analysis ID: 00-5765-6066 **Endpoint:** 6d Survival Rate **CETIS Version:** CETISv1.8.0
Analyzed: 30 Jan-12 17:06 **Analysis:** Linear Interpolation (ICPIN) **Official Results:** Yes

Graphics



Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	14-1201-6372	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 17:05	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	11-7889-7897	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	13 Sep-11 13:30	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	Nema
Ending Date:	19 Sep-11 16:30	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 3h	**Source:**	In-House Culture	**Age:**	<24h
Sample ID:	01-4449-7669	**Code:**	11432c	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	8d 14h	**Station:**	Nema		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1.619E+09	200	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC10	14.51	2.318	42.45	6.894	2.356	43.14
IC15	17.29	4.108	47.63	5.783	2.099	24.34
IC25	48.43	14.16	59.57	2.065	1.679	7.062
IC50	74.05	53.89	101.7	1.35	0.9833	1.856

Reproduction Summary — **Calculated Variate**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0.4	Negative Control	10	19.7	9	25	1.564	4.945	25.1%	0.0%
5.5		10	19.2	5	26	2.25	7.115	37.06%	2.54%
12.4		10	18.6	6	27	1.857	5.873	31.57%	5.58%
20.8		10	15.5	0	24	2.574	8.141	52.52%	21.32%
44.7		10	15.9	4	23	1.676	5.301	33.34%	19.29%
86.8		10	8	0	20	2.324	7.348	91.86%	59.39%
156.5		10	2.3	0	12	1.535	4.855	211.1%	88.32%
329		10	2.4	0	9	0.9684	3.062	127.6%	87.82%

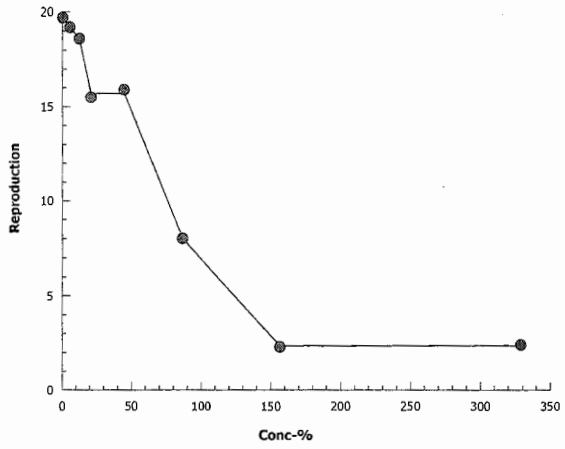
Reproduction Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
0.4	Negative Control	17	24	9	24	19	22	20	25	15	22
5.5		5	26	25	11	25	22	15	16	24	23
12.4		23	16	23	23	15	17	27	18	6	18
20.8		14	21	10	16	23	0	6	24	17	24
44.7		18	11	4	23	17	17	19	20	14	16
86.8		0	8	17	20	0	12	9	12	2	0
156.5		12	0	11	0	0	0	0	0	0	0
329		0	0	0	4	0	5	9	0	2	4

Ceriodaphnia 7-d Survival and Reproduction Test | **Nautilus Environmental**

Analysis ID:	14-1201-6372	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 17:05	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia dubia Summary Sheet

Client: EKati (Resaan) Start Date/Time: Sept 11/11 @ 1520h
Work Order No.: 11433 Set up by: AwO

Sample Information:

Sample ID: Leslie
Sample Date: Sept 5/11
Date Received: Sept 9/11
Sample Volume: 6 x 20L

Test Validity Criteria:

1) Mean survival of first generation controls is ≥80 %
2) At least 60% of controls have produced three broods within 8 days
3) An average of ≥15 live young produced per surviving female in the control solutions during the first three broods.
4) Invalid if ephippia observed in any control solution at any time.

WQ Ranges:

T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4 ; pH = 6 to 8.5

Test Organism Information:

Broodstock No.: 090111
Age of young (Day 0): <24-h (within 12-h)
Avg No. young in first 3 broods of previous 7 d: 24
Mortality (%) in previous 7 d: 0
Individual female # used ≥8 young on test day 31, 32, 34, 36, 37, 39, 40

NaCl Reference Toxicant Results:

Reference Toxicant ID: Cd72
Stock Solution ID: 11NaCl
Date Initiated: Sept 13/11

7-d LC50 (95% CL): 2.0 (1.7 - 2.3) g/L NaCl
7-d IC50 (95% CL): 1.3 (1.2 - 1.5) g/L NaCl

7-d LC50 Reference Toxicant Mean and Historical Range: 1.8 (1.5-2.3) g/L NaCl CV (%): 12
7-d IC50 Reference Toxicant Mean and Historical Range: 1.2 (0.9-1.5) g/L NaCl CV (%): 15

Test Results:

	Survival	Reproduction
LC50 mg/L Cl % (v/v) (95% CL)	> 78.5	—
IC25 mg/L Cl % (v/v) (95% CL)	—	31.6 (11.2-49.8)
IC50 mg/L Cl % (v/v) (95% CL)	—	121.4 (70.7-167.6)

Reviewed by: Date reviewed: 31/1/2012

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: EKATI
Sample ID: Leslie
Work Order #: 11433
Start Date & Time: Sept 11/11 @ 1520h
Stop Date: Sept 17/11 @ 1500h
Test Species: *Ceriodaphnia dubia*

mg/L N Concentration 0	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.5	25.0	24.0	26.0	24.5	25.5	24.0	25.0	24.0	24.5	24.0	24.5		
DO (mg/L)	7.8	7.7	8.0	7.5	8.0	7.5	8.0	7.1	7.9	7.0	7.7	7.4		
pH	7.7	8.1	7.7	7.4	GHP 8.2	7.3	7.6	7.1	7.6	7.3	7.7	7.5		
Cond. (µS/cm)	787	781		GHP 777 794		777		795		784		770		
Initials	AM	KLB		GHP		GHP		GHP		KLB		AM		

Concentration 5	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.5	25.0	24.0	26.0	24.5	25.5	24.0	25.0	24.0	24.5	24.0	24.5		
DO (mg/L)	7.9	7.7	8.1	7.5	8.0	7.5	8.1	7.1	8.0	6.9	7.7	7.2		
pH	7.7	7.7	7.7	7.4	7.7	7.4	7.6	7.1	7.7	7.3	7.7	7.5		
Cond. (µS/cm)	822	822		832 794 GHP		815		831		830		796		
Initials	AM	KLB		GHP		GHP		GHP		KLB		AM		

Concentration 40	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.5	25.0	24.0	26.0	24.5	25.5	24.0	25.0	24.0	24.5	24.0	24.5		
DO (mg/L)	7.8	7.7	8.1	7.6	8.0	7.5	8.1	7.1	8.1	6.9	7.8	6.9		
pH	7.7	7.7	7.6	7.4	7.6	7.4	7.6	7.2	7.7	7.3	7.7	7.5		
Cond. (µS/cm)	1113	1088		1095		1072		1077		1069		1052		
Initials	AM	KLB		GHP		GHP		GHP		KLB		AM		

Concentration 320	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.5	25.0	24.0	26.0	24.5	25.5	24.0	25.0	24.0	24.5	24.0	24.5		
DO (mg/L)	7.8	7.8	8.1	7.6	7.9	7.6	8.1	7.1	8.1	6.9	7.8	6.8		
pH	7.7	7.7	7.6	7.4	7.6	7.4	7.5	7.3	7.7	7.3	7.6	7.5		
Cond. (µS/cm)	3180	3120		3150		3160		3100		3180		2980		
Initials	AM	KLB		GHP		GHP		GHP		KLB		AM		

	Control	100% Leslie		
Hardness*	100	138		
Alkalinity*	62	36		

* mg/L as CaCO3

Analysts: AM, KLB, GHP
Reviewed by:
Date reviewed:

WQ Ranges: T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4 (mg/L) ; pH = 6 to 8.5

Sample Description: Sodium nitrate spiked light yellow - filtered @ 0.45µm

Comments: **Broodboard Used:** 09a111

Chronic Freshwater Toxicity Test
C. dubia Reproduction Data

Client: EXATI
Sample ID: Leslie
Work Order: 11433

mg/L N

Start Date & Time: Sept 11/11 @ 1520h
Stop Date & Time: Sept 17/11 @ 1800h
Set up by: AWD

Days	Concentration: 20% Perrier Ctrl										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
4	4	4	5	3	2	4	4	4	3	✓	KLB
5	5	5	8	9	6	✓	6	9	8	5	KLB
6	8	6	5	4	6	10	5	✓	7	10	AM
7											
8											
Total	17	15	18	16	14	14	15 KLB	13	18	15	KLB

Days	Concentration: 0										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	2	✓	✓	GHP
4	4	4	✓	4	2	2	3	4	4	✓	KLB
5	6	7	3	10	7	9	7	12	10	6	KLB
6	6	5	8	✓	7	5	6	✓	✓	7	AM
7											
8											
Total	16	16	11	14	16	16	16	18	14	13	KLB

Days	Concentration: 5										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
4	✓	✓	✓	✓	2	3	3	4	4	✓	KLB
5	✓	5	7	3	8	7	8	9	8	5	KLB
6	6	7	8	9	4	✓	5	5	✓	8	AM
7											
8											
Total	10	12	15	12	14	10	16	18	12	13	KLB

Days	Concentration: 10										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	✓	✓	3	3	3	4	✓	3	3	4	KLB
5	6	4	7	9	✓	✓	2	9	7	7	KLB
6	10	9	✓	✓	8	7	6	✓	✓	✓	AM
7											
8											
Total	16	13	10	12	11	11	8	12	10	11	KLB

Days	Concentration: 20										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	3	✓	✓	✓	KLB
4	✓	3	✓	4	4	✓	5	4	4	2	KLB
5	9	8	4	✓	✓	4	✓	6	9	7	KLB
6	5	✓	6	7	8	7	10	✓	5	✓	AM
7											
8											
Total	14	11	10	11	12	11	18	10	18	9	KLB

Days	Concentration: 40										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓ KLB	✓	✓	✓	✓	✓	KLB
4	4	✓	4	4	4	4	3	4	✓	3	KLB
5	✓	4	7	8	6	8	7	✓	5	✓	KLB
6	6	7	✓	✓	✓	✓	✓	6	6	6	AM
7											
8											
Total	10	11	11	12	10	12	10	10	11	9	KLB

Days	Concentration: 80										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	X	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	✓	|	✓	4	2	3	✓	✓	✓	✓	KLB
5	3	|	3	✓	✓	✓	4	5	4	6	KLB
6	7	|	6	5	5	5	7	6	7	8	AM
7		|								
8		|								
Total	10	0†	9	9	7	8	11	11	11	14	KLB

Days	Concentration: 160										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	✓	✓	✓	2	✓	✓	✓	✓	✓	✓	KLB
5	✓	3	3	✓	4	3	4	4	2	5	KLB
6	4	4	4	6	7	✓	✓	6	✓	6	AM
7											
8											
Total	4	7	7	7	11	3	4	10	2	11	KLB

Days	Concentration: 320										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
3	X	X	X	✓	✓	✓	✓	✓	✓	✓	KLB
4	|	|	|	✓	✓	✓	✓	✓	✓	✓	KLB
5	|	|	|	✓	✓	2	✓	✓	✓	✓	KLB
6	|	|	|	3	✓	✓	✓	✓	✓	✓	AM
7											
8											
Total	0†	0†	0†	3	0	2	0	0	0	0	KLB

Notes: X = mortality.

Sample Description: Leslie spiked w $NaNO_3$

Comments: Total # Young only based on the first 3 Broods. Fourth and subsequent broods not included in total count.

Reviewed by: _____ Date reviewed: _____

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	15-4051-9899	**Endpoint:**	6d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	06 Oct-11 16:26	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	13-5448-2502	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	11 Sep-11 15:20	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	Leslie
Ending Date:	17 Sep-11 18:00	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 3h	**Source:**	In-House Culture	**Age:**	<24h
Sample ID:	18-1802-8663	**Code:**	11432b	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	6d 15h	**Station:**	Leslie		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1.692E+09	200	Yes	Two-Point Interpolation

Point Estimates

Level	% mg/L CN as CaCO3	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	156	53.39	208.5	0.641	0.4797	1.873
EC10	175.2	65.34	278.5	0.5708	0.3591	1.531
EC15	196.7	156	N/A	0.5083	N/A	0.641
EC20	220.9	180.4	N/A	0.4527	N/A	0.5545
EC25	248	198.6	N/A	0.4031	N/A	0.5034
EC40	>278.5	N/A	N/A	<0.3591	N/A	N/A
EC50	>278.5	N/A	N/A	<0.3591	N/A	N/A

6d Survival Rate Summary — **Calculated Variate(A/B)**

Conc-% mg/L CN as CaCO3	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
2.8	Dilution Water	10	1	1	1	0	0	0.0%	0.0%	10	10
7.5		10	1	1	1	0	0	0.0%	0.0%	10	10
12.8		10	1	1	1	0	0	0.0%	0.0%	10	10
22.9		10	1	1	1	0	0	0.0%	0.0%	10	10
43.6		10	1	1	1	0	0	0.0%	0.0%	10	10
79.9		10	0.9	0	1	0.1	0.3162	35.14%	10.0%	9	10
156		10	1	1	1	0	0	0.0%	0.0%	10	10
278.5		10	0.7	0	1	0.1528	0.483	69.01%	30.0%	7	10

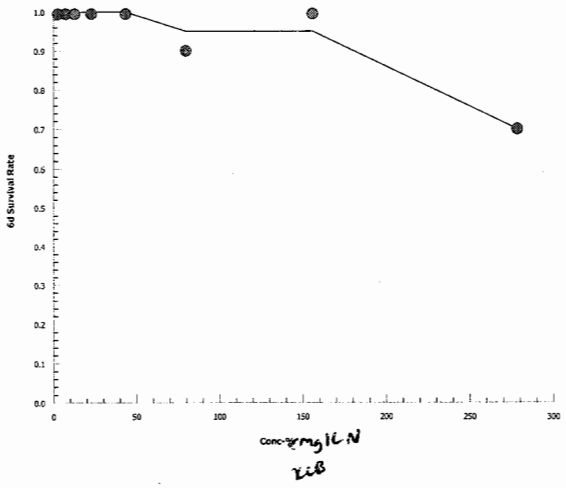
6d Survival Rate Detail

Conc-% mg/L CN as CaCO3	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
2.8	Dilution Water	1	1	1	1	1	1	1	1	1	1
7.5		1	1	1	1	1	1	1	1	1	1
12.8		1	1	1	1	1	1	1	1	1	1
22.9		1	1	1	1	1	1	1	1	1	1
43.6		1	1	1	1	1	1	1	1	1	1
79.9		1	0	1	1	1	1	1	1	1	1
156		1	1	1	1	1	1	1	1	1	1
278.5		0	0	0	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	15-4051-9899	**Endpoint:**	6d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	06 Oct-11 16:26	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	01-6174-6055	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	06 Oct-11 16:26	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	13-5448-2502	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	
Start Date:	11 Sep-11 15:20	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	Leslie
Ending Date:	17 Sep-11 18:00	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 3h	**Source:**	In-House Culture	**Age:**	<24h
Sample ID:	18-1802-8663	**Code:**	11432b	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	6d 15h	**Station:**	Leslie		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	522318930	200	Yes	Two-Point Interpolation

Point Estimates

Level	% mg/L N as KNO3	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	4.315	3.571	9.026	23.18	11.08	28
IC10	6.433	4.499	11.45	15.55	8.734	22.23
IC15	9.052	5.615	28.16	11.05	3.551	17.81
IC20	12.3	6.957	37.8	8.133	2.645	14.37
IC25	31.65	11.2	49.85	3.16	2.006	8.928
IC40	79.9	51.58	122.2	1.252	0.8181	1.939
IC50	121.4	70.72	167.6	0.8235	0.5967	1.414

Reproduction Summary — **Calculated Variate**

Conc-% mg/L N as KNO3	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
2.8	Dilution Water	10	15	11	18	0.6325	2	13.33%	0.0%
7.5		10	13.2	10	18	0.8138	2.573	19.5%	12.0%
12.8		10	11.4	8	16	0.67	2.119	18.59%	24.0%
22.9		10	12.4	9	18	1.024	3.239	26.12%	17.33%
43.6		10	10.6	9	12	0.3055	0.9661	9.11%	29.33%
79.9		10	9	0	14	1.174	3.712	41.24%	40.0%
156		10	6.6	2	11	1.046	3.307	50.1%	56.0%
278.5		10	0.5	0	3	0.3416	1.08	216.0%	96.67%

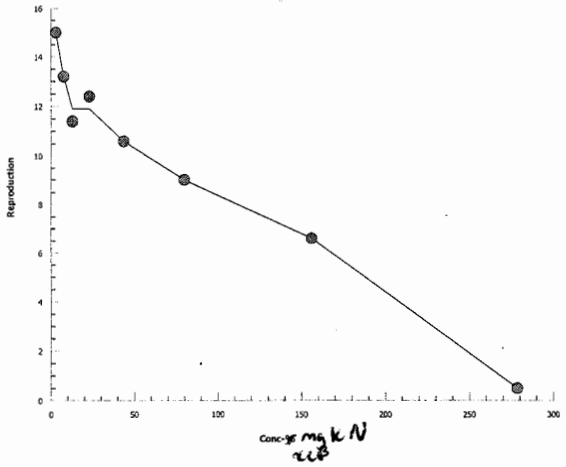
Reproduction Detail

Conc-% mg/L N as KNO3	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
2.8	Dilution Water	16	16	11	14	16	16	16	18	14	13
7.5		10	12	15	12	14	10	16	18	12	13
12.8		16	13	10	12	11	11	8	12	10	11
22.9		14	11	10	11	12	11	18	10	18	9
43.6		10	11	11	12	10	12	10	10	11	9
79.9		10	0	9	9	7	8	11	11	11	14
156		4	7	7	7	11	3	4	10	2	11
278.5		0	0	0	3	0	2	0	0	0	0

Ceriodaphnia 7-d Survival and Reproduction Test **Nautilus Environmental**

Analysis ID:	01-6174-6055	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	06 Oct-11 16:26	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Ceriodaphnia dubia Summary Sheet

Client: EXATI (Flescan) Start Date/Time: Sept 13/11 @1200h
Work Order No.: 11433 Set up by: KLB

Sample Information:

Sample ID: Moose
Sample Date: Sept 5/11
Date Received: Sept 9/11
Sample Volume: 6 x 20L

Test Validity Criteria:

1) Mean survival of first generation controls is ≥80 %
2) At least 60% of controls have produced three broods within 8 days
3) An average of ≥15 live young produced per surviving female in the control solutions during the first three broods.
4) Invalid if ephippia observed in any control solution at any time.

WQ Ranges:

T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4 ; pH = 6 to 8.5

Test Organism Information:

Broodstock No.: 090111
Age of young (Day 0): <24-h (within 12-h)
Avg No. young in first 3 broods of previous 7 d: 36
Mortality (%) in previous 7 d: 5
Individual female # used ≥8 young on test day: 32,24,25,26,28,29,30,31,32,33

NaCl Reference Toxicant Results:

Reference Toxicant ID: Cd72
Stock Solution ID: 11 NaCl
Date Initiated: Sept 13/11

7-d LC50 (95% CL): 2.0 (1.7-2.3) g/L NaCL
7-d IC50 (95% CL): 1.3 (1.2-1.5) g/L NaCL

7-d LC50 Reference Toxicant Mean and Historical Range: 1.8 (1.5-2.3) g/L NaCL CV (%): 12
7-d IC50 Reference Toxicant Mean and Historical Range: 1.2 (0.9-1.5) g/L NaCL CV (%): 15

Test Results:

	Survival	Reproduction
LC50 $\frac{mg/L\ NaCl}{\%\ (v/v)}$ (95% CL)	~~700~~ KLB 319	—
IC25 $\frac{mg/L\ NaCl}{\%\ (v/v)}$ (95% CL)	—	57.2 (25.2-109.9)
IC50 $\frac{mg/L\ NaCl}{\%\ (v/v)}$ (95% CL)	—	150.9 (85.4-181.6)

Reviewed by: Date reviewed: 31/1/2012

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: EXATI
Sample ID: Moose
Work Order #: 11433

Start Date & Time: Sept 13/11 @ 1200h
Stop Date: Sept 19/11 @ 1500h
Test Species: *Ceriodaphnia dubia*

mg/L N Concentration 0	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	25.5	24.0	24.0	24.0	25.5	24.0	24.0	24.0	24.0	24.0	25.0		
DO (mg/L)	7.9	7.8	8.0	7.6	7.9	7.5	7.7	6.8	7.9	6.8	7.9	6.8		
pH	7.5	7.2	7.4	7.8	7.2	7.3	7.6	6.9	7.3	6.9	7.4	6.9		
Cond. (µS/cm)	431	427		430		434		433		448		449		
Initials	GHP	GHP		GHP		KLB						KLB		

Concentration 5	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	25.5	24.0	24.0	24.0	25.5	24.0	24.0	24.0	24.0	24.0	25.0		
DO (mg/L)	8.0	7.8	8.1	7.8	8.1	7.6	7.7	7.0	8.0	6.9	7.9	6.8		
pH	7.5	7.2	7.3	7.1	7.4	7.4	7.6	6.9	7.3	6.9	7.4	6.9		
Cond. (µS/cm)	470	465		471		471		465		474		469		
Initials	GHP	GHP		GHP		KLB						KLB		

Concentration 40	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	25.5	24.0	24.0	24.0	25.5	24.0	24.0	24.0	24.0	24.0	25.0		
DO (mg/L)	8.0	7.9	8.1	8.0	8.1	7.5	7.7	7.1	8.1	7.0	7.8	7.0		
pH	7.4	7.3	7.3	7.1	7.4	7.4	7.5	7.0	7.3	7.0	7.4	7.1		
Cond. (µS/cm)	730	733		747		747		724		741		732		
Initials	GHP	GHP		GHP		KLB						KLB		

Concentration 320	Days													
	0	1		2		3		4		5		6		7
	init.	old	new	old	new	old	new	old	new	old	new	old	new	final
Temperature (°C)	24.0	25.5	24.0	24.0	24.0	25.5	24.0	24.0	24.0	24.0	24.0	25.0		
DO (mg/L)	7.9	7.9	8.2	7.8	8.1	7.5	7.7	6.9	8.0	7.1	7.8	7.1		
pH	7.4	7.2	7.3	7.2	7.4	7.3	7.4	7.1	7.3	7.1	7.3	7.1		
Cond. (µS/cm)	2820	2820		2860		2840		2840		2850		2790		
Initials	GHP	GHP		GHP		KLB						KLB		

	Control	100% Moose		
Hardness*	100	74		
Alkalinity*	62	90		

* mg/L as CaCO3

Analysts: KLB, AM
Reviewed by:
Date reviewed:

WQ Ranges: T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4 (mg/L) ; pH = 6 to 8.5

Sample Description: sodium nitrate spiked

Comments: Broodboard Used: 09011)

Chronic Freshwater Toxicity Test
C. dubia Reproduction Data

Client: ELATI (Rescan)
Sample ID: Moose
Work Order: 11433

Start Date & Time: Sept 13/11 @ 1200h
Stop Date & Time: Sept 19/11 @ 1500h
Set up by: KLB

mg/L N

Days	Concentration: 20% Perrier Control										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	3	✓	3	3	3	3	✓	3	3	3	~
5	7	4	6	6	7	8	6	7	5	7	~
6	12	11	✓	11	12	12	12	11	9	10	KLB
7											
8											
Total	22	15	9	20	22	23	18	21	17	20	KLB

Days	Concentration: 0										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
3	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	KLB
4	3	✓	✓	|	3	3	3	4	4	3	~
5	8	3	3	|	7	6	6	9	✓	7	~
6	15	5	14	|	13	13	13	14	15	14	KLB
7											
8											
Total	26	8	17	0^	23	25 (23 KLB)	22	27	19	24	KLB

Days	Concentration: 5										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	3	3	3	3	2	3	3	3	3	2	~
5	8	7	7	8	9	✓	4	7	7	5	~
6	11	16	12	14	5	15	12	13	14	15	KLB
7											
8											
Total	22	26	22	25	16	18	19	23	24	22	KLB

Days	Concentration: 10										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	✓	3	6	3	4	5	✓	5	5	3	~
5	4	8	7	✓	6	✓	3	✓	✓	7	~
6	14	14	✓	9	12	12	10	11	14	12	KLB
7											
8											
Total	18	25	13	12	22	17	13	16	19	22	KLB

Days	Concentration: 20										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	✓	3	✓	5	4	4	✓	2	✓	3	~
5	7	7	5	✓	6	6	7	8	8	7	~
6	✓	12	12	13	13	11	13	15	13	14	KLB
7											
8											
Total	7	22	17	18	23	21	20	25	21	24	KLB

Days	Concentration: 40										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	4	✓	3	✓	✓	4	2	2	✓	✓	~
5	✓	4	6	6	✓	✓	7	7	✓	6	~
6	14	11	11	12	14	13	11	11	4	12	KLB
7											
8											
Total	18	15	20	18	14	17	20	20	4	18	KLB

Days	Concentration: 80										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	GHP
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	2	✓	✓	✓	2	3	✓	✓	2	✓	~
5	4	6	✓	6	6	4	5	✓	✓	5	~
6	11	12	✓	11	12	13	✓	8	9	12	KLB
7											
8											
Total	17	18	0	17	20	20	5	8	11	17	KLB

Days	Concentration: 160										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	✓	—	✓	✓	✓	✓	✓	✓	✓	GHP
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	✓	✓	✓	✓	3	3	✓	2	✓	✓	~
5	✓	3	✓	3	✓	✓	3	✓	2	3	~
6	8	9	7	10	✓	8	10	9	7	10	KLB
7											
8											
Total	11	12	7	13	3	11	13	11	9	13	KLB

Days	Concentration: 320										
	A	B	C	D	E	F	G	H	I	J	Init
1	✓	✓	—	✓	✓	✓	✓	✓	✓	✓	KLB
2	✓	—	✓	✓	✓	✓	✓	✓	—	—	GHP
3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	KLB
4	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~
5	✓	✓	✓	3	3	3	✓	3	✓	✓	~
6	✓	✓	2	4	7	✓	3	4	✓	2	KLB
7											
8											
Total	0	0	2	7	10	3	3	7	0	2	KLB

Notes: X = mortality.

Sample Description: Moose spiked w $NaNO_3$

Comments: Total # Young only based on the first 3 Broods. Fourth and subsequent broods not included in total count.

Reviewed by: _____ Date reviewed: _____

CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	17-2864-4061	**Endpoint:**	6d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	06 Oct-11 15:50	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	19-6064-6553	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	Krysta Banack
Start Date:	13 Sep-11 12:00	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	Moose
Ending Date:	19 Sep-11 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 3h	**Source:**	In-House Culture	**Age:**	<24h
Sample ID:	11-0542-6896	**Code:**	11432a	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	8d 12h	**Station:**	Moose		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1.421E+09	200	Yes	Two-Point Interpolation

Point Estimates

Level	~~%~~ mg/L N	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>319	N/A	N/A	<0.3135	N/A	N/A
EC10	>319	N/A	N/A	<0.3135	N/A	N/A
EC15	>319	N/A	N/A	<0.3135	N/A	N/A
EC20	>319	N/A	N/A	<0.3135	N/A	N/A
EC25	>319	N/A	N/A	<0.3135	N/A	N/A
EC40	>319	N/A	N/A	<0.3135	N/A	N/A
EC50	>319	N/A	N/A	<0.3135	N/A	N/A

6d Survival Rate Summary — **Calculated Variate(A/B)**

Conc ~~%~~ mg/L N	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
2.5	Dilution Water	10	0.9	0	1	0.1	0.3162	35.14%	0.0%	9	10
6		10	1	1	1	0	0	0.0%	-11.11%	10	10
10.2		10	1	1	1	0	0	0.0%	-11.11%	10	10
22		10	1	1	1	0	0	0.0%	-11.11%	10	10
41.8		10	1	1	1	0	0	0.0%	-11.11%	10	10
93.1		10	1	1	1	0	0	0.0%	-11.11%	10	10
148		10	1	1	1	0	0	0.0%	-11.11%	10	10
319		10	1	1	1	0	0	0.0%	-11.11%	10	10

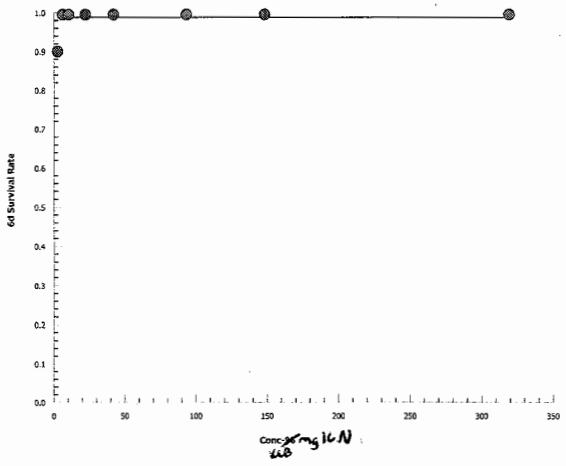
6d Survival Rate Detail

Conc ~~%~~ mg/L N	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
2.5	Dilution Water	1	1	1	0	1	1	1	1	1	1
6		1	1	1	1	1	1	1	1	1	1
10.2		1	1	1	1	1	1	1	1	1	1
22		1	1	1	1	1	1	1	1	1	1
41.8		1	1	1	1	1	1	1	1	1	1
93.1		1	1	1	1	1	1	1	1	1	1
148		1	1	1	1	1	1	1	1	1	1
319		1	1	1	1	1	1	1	1	1	1

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	17-2864-4061	**Endpoint:**	6d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	06 Oct-11 15:50	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	03-7879-2397	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	06 Oct-11 15:51	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	19-6064-6553	**Test Type:**	Reproduction-Survival (7d)	**Analyst:**	Krysta Banack
Start Date:	13 Sep-11 12:00	**Protocol:**	EC/EPS 1/RM/21	**Diluent:**	Moose
Ending Date:	19 Sep-11 15:00	**Species:**	Ceriodaphnia dubia	**Brine:**	
Duration:	6d 3h	**Source:**	In-House Culture	**Age:**	<24h
Sample ID:	11-0542-6896	**Code:**	11432a	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	8d 12h	**Station:**	Moose		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1.478E+09	200	Yes	Two-Point Interpolation

Point Estimates

Level	ug/L N	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	8.613	4.286	44.89	11.61	2.228	23.33
IC10	25.42	6.768	61.01	3.933	1.639	14.78
IC15	33.53	7.947	95.89	2.982	1.043	12.58
IC20	44.03	9.304	102.9	2.271	0.9722	10.75
IC25	57.25	25.18	109.9	1.747	0.9096	3.971
IC40	111.2	51.73	152.8	0.8991	0.6545	1.933
IC50	150.9	85.44	181.6	0.6626	0.5506	1.17

Reproduction Summary — **Calculated Variate**

Conc ug/L N	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
2.5	Dilution Water	10	18.8	0	27	2.703	8.548	45.47%	0.0%
6		10	21.7	16	26	1.001	3.164	14.58%	-15.43%
10.2		10	17.7	12	25	1.383	4.373	24.71%	5.85%
22		10	19.8	7	25	1.625	5.138	25.95%	-5.32%
41.8		10	16.4	4	20	1.522	4.812	29.34%	12.77%
93.1		10	13.3	0	20	2.191	6.929	52.1%	29.26%
148		10	10.3	3	13	1.012	3.199	31.06%	45.21%
319		10	3.4	0	10	1.097	3.471	102.1%	81.91%

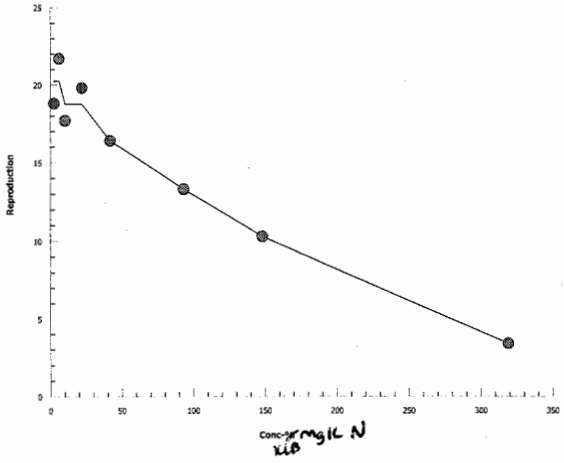
Reproduction Detail

Conc ug/L N	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	Rep 6	Rep 7	Rep 8	Rep 9	Rep 10
2.5	Dilution Water	26	8	17	0	23	22	22	27	19	24
6		22	26	22	25	16	18	19	23	24	22
10.2		18	25	13	12	22	17	13	16	19	22
22		7	22	17	18	23	21	20	25	21	24
41.8		18	15	20	18	14	17	20	20	4	18
93.1		17	18	0	17	20	20	5	8	11	17
148		11	12	7	13	3	11	13	11	9	13
319		0	0	2	7	10	3	3	7	0	2

Ceriodaphnia 7-d Survival and Reproduction Test — **Nautilus Environmental**

Analysis ID:	03-7879-2397	**Endpoint:**	Reproduction	**CETIS Version:**	CETISv1.8.0
Analyzed:	06 Oct-11 15:51	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Client: EKATI

W.O.#: 11433

Hardness and Alkalinity Datasheet

	Alkalinity						Hardness			
Sample ID KLB	Sample Date	Sample Volume (mL)	(mL) 0.02N HCL/H_2SO_4 used to pH 4.5	(mL) of 0.02N HCL/H_2SO_4 used to pH 4.2	Total Alkalinity ($mg/LCaCO_3$)		Sample Volume (mL)	Volume of 0.01M EDTA Used (mL)	Total Hardness ($mg/L\ CaCO_3$)	Technician
~~SUPPER~~ Slipper	Sept 9/11	50	0.5	0.6	8		50	1.4	28	KLB
NEMA	↓	↓	1.0	1.1	18		↓	3.5	70	↓
MOOSE	↓	↓	1.1	1.2	20		↓	3.7	74	↓
LESLIE	↓	↓	1.9	2.0	36		↓	6.9	138	↓
20% Perrier	Sept 13/11	50	3.2	3.3	62		50	5.0	100	KLB

Notes: _____

Reviewed by: _____ Date Reviewed: _____

NAUTILUS ENVIRONMENTAL
ATTN: Krysta Banack
8664 Commerce Court
Imperial Square Lake City
Burnaby BC V5A 4N7

Date Received: 13-SEP-11
Report Date: 21-SEP-11 16:14 (MT)
Version: FINAL

Client Phone: 604-420-8773

Certificate of Analysis

Lab Work Order #: L1057756

Project P.O. #: 0125
Job Reference:
C of C Numbers:
Legal Site Desc:

Comments: The sampling date on the bottles was 12-Sep-11; While the sampling date on the chain of custody form was 12-Sep-11. The sampling date noted on the chain of custody form was used and reported.

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1057756-1 CHEM 11-SEP-11 CTRL DAY-0	L1057756-2 CHEM 11-SEP-11 SLIPPER 0 DAY-0	L1057756-3 CHEM 11-SEP-11 SLIPPER 1.25 DAY-0	L1057756-4 CHEM 11-SEP-11 SLIPPER 2.5 DAY-0	L1057756-5 CHEM 11-SEP-11 SLIPPER 5 DAY-0
Sample ID		L1057756-1	L1057756-2	L1057756-3	L1057756-4	L1057756-5
Description		CHEM	CHEM	CHEM	CHEM	CHEM
Sampled Date		11-SEP-11	11-SEP-11	11-SEP-11	11-SEP-11	11-SEP-11
Sampled Time						
Client ID		CTRL DAY-0	SLIPPER 0 DAY-0	SLIPPER 1.25 DAY-0	SLIPPER 2.5 DAY-0	SLIPPER 5 DAY-0
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	0.405	0.0129	1.22	2.46	4.85

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1057756-6	L1057756-7	L1057756-8	L1057756-9	
	Description	CHEM	CHEM	CHEM	CHEM	
	Sampled Date	11-SEP-11	11-SEP-11	11-SEP-11	11-SEP-11	
	Sampled Time					
	Client ID	SLIPPER 10 DAY-0	SLIPPER 20 DAY-0	SLIPPER 40 DAY-0	SLIPPER 80 DAY-0	
Grouping	**Analyte**					
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	10.2	20.4	40.6	81.9	

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

TESTING LOCATION (Please Circle)

Chain of Custody

British Columbia (1)
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773
Fax 604.357.1361

L1057756

Date Sept 13/11 Page 1 of 1

Sample

Report to:		Invoice To:	
Company	(1)	Company	(1)
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	krysta@nautilusenvironmental.com	Email	Krysta @nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: Nitrate										Receipt Temperature (°C)
1	Ctrl Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
2	Slipper 0 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
3	Slipper 1.25 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
4	Slipper 2.5 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
5	Slipper 5 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
6	Slipper 10 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
7	Slipper 20 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
8	Slipper 40 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
9	Slipper 80 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
10																		

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:	General Lab	Total No. of Containers	
PO No.:	0125	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: ATTN Can Dang

RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
(Signature)	(Time) 1700	(Signature)	(Time)
(Printed Name) Krysta Banack	(Date) Sept 13/11	(Printed Name)	(Date)
(Company) Nautilus Environmental (1)		(Company)	

RECEIVED BY (COURIER)		RECEIVED BY (LABORATORY)	
(Signature)	(Time)	(Signature) Mchi	(Time) 7:30
(Printed Name)	(Date)	(Printed Name)	(Date) Sept 13/11
(Company)		(Company)	

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

15°C

NAUTILUS ENVIRONMENTAL
ATTN: Krysta Banack
8664 Commerce Court
Imperial Square Lake City
Burnaby BC V5A 4N7

Date Received: 20-SEP-11
Report Date: 23-SEP-11 14:31 (MT)
Version: FINAL

Client Phone: 604-420-8773

Certificate of Analysis

Lab Work Order #: L1061061

Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1061061-1	L1061061-2	L1061061-3	L1061061-4	L1061061-5
	Description	WATER	WATER	WATER	WATER	WATER
	Sampled Date	17-SEP-11	17-SEP-11	17-SEP-11	17-SEP-11	17-SEP-11
	Sampled Time					
	Client ID	SLIPPER-0N DAY 6	SLIPPER-1.25N DAY 6	SLIPPER-2.5N DAY 6	SLIPPER-5N DAY 6	SLIPPER-10N DAY 6
Grouping	**Analyte**					
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	1.48	1.38	2.56	5.05	9.99

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1061061-6	L1061061-7	L1061061-8		
	Description	WATER	WATER	WATER		
	Sampled Date	17-SEP-11	17-SEP-11	17-SEP-11		
	Sampled Time					
	Client ID	SLIPPER-20N DAY 6	SLIPPER-40N DAY 6	SLIPPER-80N DAY 6		
Grouping	**Analyte**					
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	19.6	36.7	63.2		

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

TESTING LOCATION (Please Circle)

L1061061

Chain of Custody

tish Columbia
4 Commerce Court
ıaby, British Columbia, Canada V5A 4N3
ne 604.420.8773

L1061061-COFC

Date_____Page__1_of_1__

Report to:		Invoice To:	
Company		Company	
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	krysta@nautilusenvironmental.com	Email	krysta@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: (Nitrate) NO_3-N	Receipt Temperature (°C)
1	Slipper- 0N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x	
2	Slipper- 1.25N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x	
3	Slipper- 2.5N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x	
4	Slipper- 5N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x	
5	Slipper- 10N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x	
6	Slipper- 20N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x	
7	Slipper- 40N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x	
8	Slipper- 80N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x	
9									
10									

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:		Total No. of Containers	
PO No.:	0125	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: ATTN Can Dang

RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
(Signature)	(Time) 1700h	(Signature)	(Time)
(Printed Name) Krysta Banack	(Date) Sept 20/11	(Printed Name)	(Date)
(Company) Nautilus		(Company)	

RECEIVED BY (COURIER)		RECEIVED BY (LABORATORY)	
(Signature)	(Time)	(Signature)	(Time) 8:15
(Printed Name)	(Date)	(Printed Name) Uchi	(Date) Sept 20/11
(Company)		(Company)	

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

10°C

NAUTILUS ENVIRONMENTAL
ATTN: Krysta Banack
8664 Commerce Court
Imperial Square Lake City
Burnaby BC V5A 4N7

Date Received: 13-SEP-11
Report Date: 21-SEP-11 16:09 (MT)
Version: FINAL

Client Phone: 604-420-8773

Certificate of Analysis

Lab Work Order #: L1057755

Project P.O. #: 0125
Job Reference:
C of C Numbers:
Legal Site Desc:

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1057755-1 CHEM 13-SEP-11 NEMA 0 DAY-0	L1057755-2 CHEM 13-SEP-11 NEMA 5 DAY-0	L1057755-3 CHEM 13-SEP-11 NEMA 10 DAY-0	L1057755-4 CHEM 13-SEP-11 NEMA 20 DAY-0	L1057755-5 CHEM 13-SEP-11 NEMA 40 DAY-0
Sample ID / **Description** / **Sampled Date** / **Sampled Time** / **Client ID**						
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	0.526	5.38	10.1	19.6	39.7

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1057755-6	L1057755-7	L1057755-8		
	Description	CHEM	CHEM	CHEM		
	Sampled Date	13-SEP-11	13-SEP-11	13-SEP-11		
	Sampled Time					
	Client ID	NEMA 80 DAY-0	NEMA 160 DAY-0	NEMA 320 DAY-0		
Grouping	**Analyte**					
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	78.1	157	346		

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

TESTING LOCATION (Please Circle)

nental

[redacted]

Chain of Custody

L1057755

L1057755-COFC

Date Sept13/11 Page 1 of 1

Sample Collection By:

Report to:		Invoice To:	
Company	(1)	Company	(1)
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	krysta@nautilusenvironmental.com	Email	krysta@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: Nitrate										Receipt Temperature (°C)
1	Nema 0 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X										
2	Nema 5 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X										
3	Nema 10 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X										
4	Nema 20 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X										
5	Nema 40 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X										
6	Nema 80 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X										
7	Nema 160 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X										
8	Nema 320 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X										
9																		
10																		

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:	General Lab	Total No. of Containers	
PO No.:	0125	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: ATTN Can Dang

RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
(Signature)	(Time) 1700	(Signature)	(Time)
(Printed Name) Krysta Banack	(Date) Sept13/11	(Printed Name)	(Date)
(Company) (1)		(Company)	

RECEIVED BY (COURIER)		RECEIVED BY (LABORATORY)	
(Signature)	(Time)	(Signature) Meni	(Time) 17:30
(Printed Name)	(Date)	(Printed Name)	(Date) Sept 13/11
(Company)		(Company)	

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

15°C

NAUTILUS ENVIRONMENTAL
ATTN: Krysta Banack
8664 Commerce Court
Imperial Square Lake City
Burnaby BC V5A 4N7

Date Received: 20-SEP-11
Report Date: 23-SEP-11 14:47 (MT)
Version: FINAL

Client Phone: 604-420-8773

Certificate of Analysis

Lab Work Order #: L1061064

Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers:
Legal Site Desc:

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1061064-1 WATER 19-SEP-11 NEMA-0N DAY 6	L1061064-2 WATER 19-SEP-11 NEMA-5N DAY 6	L1061064-3 WATER 19-SEP-11 NEMA-10N DAY 6	L1061064-4 WATER 19-SEP-11 NEMA-20N DAY 6	L1061064-5 WATER 19-SEP-11 NEMA-40N DAY 6
Sample ID						
Description						
Sampled Date						
Sampled Time						
Client ID						
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	0.302	5.68	14.8	22.1	49.7

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1061064-6	L1061064-7	L1061064-8	L1061064-9	
	Description	WATER	WATER	WATER	WATER	
	Sampled Date	19-SEP-11	19-SEP-11	19-SEP-11	19-SEP-11	
	Sampled Time					
	Client ID	NEMA-80N DAY 6	NEMA-160N DAY 6	NEMA-320N DAY 6	CTRL DAY 6	
Grouping	**Analyte**					
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	95.4	156	312	0.329	

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Nautilus Environme

TESTING LOCATION (Please Circle)

L1061064

Chain of Custody

L1061064-COFC

Date_____Page__1_of_1__

Sample Collection By:

Report to:		Invoice To:	
Company		Company	
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	krysta@nautilusenvironmental.com	Email	krysta@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ALYSES REQUIRED (Nitrate) NO_3-N	Receipt Temperature (°C)
1	Nema- 0N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
2	Nema- 5N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
3	Nema- 10N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
4	Nema- 20N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
5	Nema- 40N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
6	Nema- 80N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
7	Nema- 160N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
8	Nema-320N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
9	Ctrl Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
10									

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:		Total No. of Containers	
PO No.:	0125	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: ATTN Can Dang

RELINQUISHED BY (CLIENT)	RELINQUISHED BY (COURIER)
(Signature) / (Time): xBanack. / 1700h	(Signature) / (Time):
(Printed Name) / (Date): Krysta Banack / Sept20/11	(Printed Name) / (Date):
(Company): Nautilus	(Company):
RECEIVED BY (COURIER)	**RECEIVED BY (LABORATORY)**
(Signature) / (Time):	(Signature) / (Time): 13:15
(Printed Name) / (Date):	(Printed Name) / (Date):
(Company):	(Company):

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

10°C

NAUTILUS ENVIRONMENTAL
ATTN: Krysta Banack
8664 Commerce Court
Imperial Square Lake City
Burnaby BC V5A 4N7

Date Received: 13-SEP-11
Report Date: 19-SEP-11 17:28 (MT)
Version: FINAL

Client Phone: 604-420-8773

Certificate of Analysis

Lab Work Order #: L1057752

Project P.O. #: 0125
Job Reference:
C of C Numbers:
Legal Site Desc:

Can Dang
Senior Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID Description Sampled Date Sampled Time Client ID	L1057752-1 CHEM 11-SEP-11 LESLIE 0 DAY-0	L1057752-2 CHEM 11-SEP-11 LESLIE 5 DAY-0	L1057752-3 CHEM 11-SEP-11 LESLIE 10 DAY-0	L1057752-4 CHEM 11-SEP-11 LESLIE 20 DAY-0	L1057752-5 CHEM 11-SEP-11 LESLIE 40 DAY-0
WATER							
Anions and Nutrients	Nitrate (as N) (mg/L)		2.90	7.69	13.6	24.7	45.0

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte					
	Sample ID	L1057752-6	L1057752-7	L1057752-8		
	Description	CHEM	CHEM	CHEM		
	Sampled Date	11-SEP-11	11-SEP-11	11-SEP-11		
	Sampled Time					
	Client ID	LESLIE 80 DAY-0	LESLIE 160 DAY-0	LESLIE 320 DAY-0		
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	81.2	156	276		

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

TESTING LOCATION (Please Circle)

British Columbia (1)
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773
Fax 604.357.1361

Chain of Custody

Date Sept 13/11 Page 1 of 1

Sample Collection By:

Report to:		Invoice To:	
Company	(1)	Company	(1) L1057752
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	krysta@nautilusenvironmental.com	Email	krysta@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: Nitrate										Receipt Temperature (°C)
1	Leslie 0 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
2	Leslie 5 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
3	Leslie 10 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
4	Leslie 20 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
5	Leslie 40 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
6	Leslie 80 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
7	Leslie 160 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
8	Leslie 320 Day-0	Sept 11/11	-	Chem	125ml Bottle	1		X										
9																		
10																		

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:	General Lab	Total No. of Containers	
PO No.:	0125	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: ATTN Can Dang

RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
(Signature)	(Time) 1700	(Signature)	(Time)
(Printed Name) Krysta Barack	(Date) Sept 13/11	(Printed Name)	(Date)
(Company) (1)		(Company)	

RECEIVED BY (COURIER)		RECEIVED BY (LABORATORY)	
(Signature)	(Time)	(Signature)	(Time) 17:30
(Printed Name)	(Date)	(Printed Name)	(Date) 13/Sept/11
(Company)		(Company)	

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

15°C

NAUTILUS ENVIRONMENTAL
ATTN: Krysta Banack
8664 Commerce Court
Imperial Square Lake City
Burnaby BC V5A 4N7

Date Received: 20-SEP-11
Report Date: 23-SEP-11 14:40 (MT)
Version: FINAL

Client Phone: 604-420-8773

Certificate of Analysis

Lab Work Order #: L1061062

Project P.O. #: 0125
Job Reference:
C of C Numbers:
Legal Site Desc:

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID Description Sampled Date Sampled Time Client ID	L1061062-1 WATER 17-SEP-11 LESLIE-0N DAY 6	L1061062-2 WATER 17-SEP-11 LESLIE-5N DAY 6	L1061062-3 WATER 17-SEP-11 LESLIE-10N DAY 6	L1061062-4 WATER 17-SEP-11 LESLIE-20N DAY 6	L1061062-5 WATER 17-SEP-11 LESLIE-40N DAY 6
WATER							
Anions and Nutrients	Nitrate (as N) (mg/L)		2.73	7.32	11.9	21.1	42.3

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1061062-6	L1061062-7	L1061062-8		
	Description	WATER	WATER	WATER		
	Sampled Date	17-SEP-11	17-SEP-11	17-SEP-11		
	Sampled Time					
	Client ID	LESLIE-80N DAY 6	LESLIE-160N DAY 6	LESLIE-320N DAY 6		
Grouping	**Analyte**					
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	78.6	156	281		

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Nautilus Env

TESTING LOCATION (Please Circle)

L1061062

Chain of Custody

L1061062-COFC

SA 4N3

Date_____Page__1_of_1__

Sample Collection By:

Report to:		Invoice To:	
Company		Company	
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	krysta@nautilusenvironmental.com	Email	krysta@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: (Nitrate) NO_3-N										Receipt Temperature (°C)
1	Leslie- 0N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x										
2	Leslie- 5N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x										
3	Leslie- 10N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x										
4	Leslie- 20N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x										
5	Leslie- 40N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x										
6	Leslie- 80N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x										
7	Leslie- 160N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x										
8	Leslie-320N Day 6	Sept 17/11	-	Water	125ml Bottle	1		x										
9																		
10																		

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:		Total No. of Containers	
PO No.:	0125	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: ATTN Can Dang

RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
(Signature)	(Time)	(Signature)	(Time)
xBanac.	1700h		
(Printed Name)	(Date)	(Printed Name)	(Date)
Krysta Banack	Sept 2011		
(Company)		(Company)	
Nautilus			

RECEIVED BY (COURIER)		RECEIVED BY (LABORATORY)	
(Signature)	(Time)	(Signature)	(Time) 18:13
(Printed Name)	(Date)	(Printed Name) Mani	(Date) Sept 20/11
(Company)		(Company)	

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

10°C

NAUTILUS ENVIRONMENTAL
ATTN: Krysta Banack
8664 Commerce Court
Imperial Square Lake City
Burnaby BC V5A 4N7

Date Received: 13-SEP-11
Report Date: 22-SEP-11 10:15 (MT)
Version: FINAL REV. 2

Client Phone: 604-420-8773

Certificate of Analysis

Lab Work Order #: L1057754

Project P.O. #: 0125
Job Reference:
C of C Numbers:
Legal Site Desc:

Comments:

22-SEP-11: Revision 2: This revision replaces and supersedes all previous revision. This revision includes data modification for the sample ALS identify as L1057754-5.

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1057754-1 CHEM 13-SEP-11 MOOSE 0 DAY-0	L1057754-2 CHEM 13-SEP-11 MOOSE 5 DAY-0	L1057754-3 CHEM 13-SEP-11 MOOSE 10 DAY-0	L1057754-4 CHEM 13-SEP-11 MOOSE 20 DAY-0	L1057754-5 CHEM 13-SEP-11 MOOSE 40 DAY-0
Sample ID / Description / Sampled Date / Sampled Time / Client ID						
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	1.19	5.92	10.6	20.1	37.9

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1057754-6	L1057754-7	L1057754-8		
	Description	CHEM	CHEM	CHEM		
	Sampled Date	13-SEP-11	13-SEP-11	13-SEP-11		
	Sampled Time					
	Client ID	MOOSE 80 DAY-0	MOOSE 160 DAY-0	MOOSE 320 DAY-0		
Grouping	**Analyte**					
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	81.2	158	323		

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

TESTING LOCATION (Please Circle)

Chain of Custody

British Columbia (1)
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773
Fax 604.357.1361

L 1057754

Date Sept 13/11 Page 1 of 1

Sample Collection By:

Report to:		Invoice To:	
Company	(1)	Company	(1)
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	krysta@nautilusenvironmental.com	Email	krysta@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: Nitrate	Receipt Temperature (°C)
1	Moose 0 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X	
2	Moose 5 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X	
3	Moose 10 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X	
4	Moose 20 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X	
5	Moose 40 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X	
6	Moose 80 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X	
7	Moose 160 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X	
8	Moose 320 Day-0	Sept 13/11	-	Chem	125ml Bottle	1		X	
9									
10									

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:	General Lab	Total No. of Containers	
PO No.:	0125	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: ATTN Can Dang

RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
(Signature)	(Time) 1700	(Signature)	(Time)
(Printed Name) Krysta Banack	(Date) Sept 13/11	(Printed Name)	(Date)
(Company) (1)		(Company)	

RECEIVED BY (COURIER)		RECEIVED BY (LABORATORY)	
(Signature)	(Time)	(Signature) Moni	(Time) 17:30
(Printed Name)	(Date)	(Printed Name)	(Date) Sept 13/11
(Company)		(Company)	

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

15°C

NAUTILUS ENVIRONMENTAL
ATTN: Krysta Banack
8664 Commerce Court
Imperial Square Lake City
Burnaby BC V5A 4N7

Date Received: 20-SEP-11
Report Date: 23-SEP-11 14:43 (MT)
Version: FINAL

Client Phone: 604-420-8773

Certificate of Analysis

Lab Work Order #: L1061063

Project P.O. #: 0125
Job Reference:
C of C Numbers:
Legal Site Desc:

Can Dang
Senior Account Manager

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ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1061063-1 WATER 19-SEP-11 MOOSE-0N DAY 6	L1061063-2 WATER 19-SEP-11 MOOSE-5N DAY 6	L1061063-3 WATER 19-SEP-11 MOOSE-10N DAY 6	L1061063-4 WATER 19-SEP-11 MOOSE-20N DAY 6	L1061063-5 WATER 19-SEP-11 MOOSE-40N DAY 6
Sample ID						
Description						
Sampled Date						
Sampled Time						
Client ID						
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	3.88	6.07	9.84	23.8	45.8

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1061063-6	L1061063-7	L1061063-8		
	Description	WATER	WATER	WATER		
	Sampled Date	19-SEP-11	19-SEP-11	19-SEP-11		
	Sampled Time					
	Client ID	MOOSE-80N DAY 6	MOOSE-160N DAY 6	MOOSE-320N DAY 6		
Grouping	**Analyte**					
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	105	138	315		

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

GLOSSARY OF REPORT TERMS

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mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Nautilus Environm

TESTING LOCATION (Please Circle)

British Columbia

L1061063

Chain of Custody

L1061063-COFC

Date_____Page__1_of_1__

Sample Collection By:

Report to:		Invoice To:	
Company		Company	
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	krysta@nautilusenvironmental.com	Email	krysta@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: (Nitrate) NO_3-N	Receipt Temperature (°C)
1	Moose- 0N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
2	Moose- 5N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
3	Moose- 10N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
4	Moose- 20N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
5	Moose- 40N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
6	Moose- 80N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
7	Moose- 160N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
8	Moose-320N Day 6	Sept 19/11	-	Water	125ml Bottle	1		x	
9									
10									

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:		Total No. of Containers	
PO No.:	0125	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: ATTN Can Dang

RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
(Signature)	(Time)	(Signature)	(Time)
K Banach.	1700h		
(Printed Name)	(Date)	(Printed Name)	(Date)
Krysta Banach	Sept 20/11		
(Company)		(Company)	
Nautilus			

RECEIVED BY (COURIER)		RECEIVED BY (LABORATORY)	
(Signature)	(Time)	(Signature)	(Time)
			18:15
(Printed Name)	(Date)	(Printed Name)	(Date)
		Moni	Sept 20th
(Company)		(Company)	

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

10°C

APPENDIX C – Fathead minnow tests

Fathead Minnow Test Summary Sheet

(7-d *Pimephales promelas* Survival and Growth Test)

Client: Rescan (Ekati)
Work Order No.: 11432

Start Date/Time: Sept 15/11 @ 1515h
Test Species: *Pimephales promelas*

Sample Information:

Sample ID: Slipper
Sample Date: Sept 5/11
Date Received: Sept 9/11
Sample Volume: 5x 15L

Test Validity Criteria:

The test is invalid if :

1) for the control solutions, the combined and cumulative incidence of any mortalities, or fish showing loss of equilibrium or other signs of atypical swimming behavior, is >20%

2) the average dry weight of the surviving control fish does not attain 250 ug when the fish are dried and weighed.

WQ Ranges:

T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4; pH = 6 to 8.5

Dilution Water (initial water quality):

Type: Moderately Hard Synthetic Water
Temperature (°C) 25.0
pH 7.9
Dissolved Oxygen (mg/L) 8.0
Hardness (mg/L $CaCO_3$) 86
Alkalinity (mg/L $CaCO_3$) 68

Test Organism Information:

Batch No.: 91511
Source: Aquatic Biosystems
Age: <24hr

NaCl Reference Toxicant Results:

Reference Toxicant ID: PP62
Stock Solution ID: n/a
Date Initiated: Sept 15/11
7-d EC50 (95% CL): 4.4 (3.7 - 5.2)
7-d IC50 (95% CL): 3.8 (3.6 - 4.3)

Survival:

Reference Toxicant Mean and Historical Range: 4.7 (3.6 - 6.3) CV (%): 16

Biomass:

Reference Toxicant Mean and Historical Range: 4.1 (3.0 - 5.6) CV (%): 17

Test Results:

	Survival	Biomass
LC25 (mg/L) (95% CL)	>413	
LC50 % (mg/L) (95% CL)	>413	
IC25 % (mg/L) (95% CL)		>413
IC50 % (mg/L) (95% CL)		>413

Reviewed by: [signature]

Date reviewed: 31/1/2012

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Ekati / Rescan
Sample ID: Slipper
Work Order #: 11432
Start Date & Time: 15-Sep-11 @ 1515h
Stop Date & Time: 22-Sep-11
Test Species: *Pimephales promelas*

(mg/L NO_3) Concentration Control	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	24.5	26.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	24.5	25.0	24.5
DO (mg/L)	6.3	6.3	6.6	7.9	6.4	8.2	6.3	8.2	6.4	8.3	6.6	8.1	6.6	6.4
pH	6.9	7.1	7.1	7.3	7.1	7.4	7.1	7.3 ARG	7.1	7.5	7.2	7.1	7.0	7.1
Cond. (µS/cm)	149	156		152		156		146		148		147		163
Initials	AWD	KJL		^		^		ARG		ARG		ARG		ARG

Concentration 12.5	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	24.5	26.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	24.5	25.0	24.5
DO (mg/L)	6.3	6.4	6.9	7.8	6.5	8.2	6.4	8.3	6.4	8.3	6.7	8.2	6.5	6.4
pH	6.9	7.1	7.0	7.4	7.1	7.4	7.1	7.3 ARG	7.1	7.3	7.2	7.1	7.0	7.0
Cond. (µS/cm)	247	255		285		259		263		258		254		276
Initials	AWD	KJL		^		^		ARG		ARG		ARG		ARG

Concentration 50	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	24.5	26.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	24.5	25.0	24.5
DO (mg/L)	6.3	6.3	6.9	7.8	6.4	8.1	6.5	8.3	6.7	8.3	6.6	8.1	6.6	6.3
pH	6.9	7.0	7.0	7.3	7.1	7.4	6.9	7.3 ARG 7.2	7.0	7.3	7.1	7.0	7.0	7.0
Cond. (µS/cm)	545	554		600		620		558		547		539		563
Initials	AWD	KJL		^		^		ARG		ARG		ARG		ARG

Concentration 400	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	24.5	26.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	24.5	25.0	24.5
DO (mg/L)	6.3	6.4	6.9	7.8	6.6	8.1	6.5	8.1	6.6	8.2	6.6	8.1	6.6	6.4
pH	7.0	7.1	7.0	7.3	7.1	7.3	6.9	7.8 7.3 ARG	7.0	7.3	7.1	7.0	7.1	7.0
Cond. (µS/cm)	3190	3125		3160		3240		3160		3170		3190		3230
Initials	^	KJL		^		^		ARG		ARG		ARG		ARG

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control	100% (v/v)		
Hardness*	86	30		
Alkalinity*	68	16		

* mg/L as CaCO3

Analysts: KJL, AWD, ARG

Reviewed by:

Date reviewed:

Sample Description:

Comments:

7-d Fathead Minnow Toxicity Test
Daily Survival

Client: Ekati / Rescan
Sample ID: Slipper
Work Order #: 11432

Start Date & Time: 15-Sep-11 @ 1630h
Stop Date: 22-Sep-11
Test Species: *Pimephales promelas*

Concentration mg/L NO_3	Rep	Day of Test - No. of Survivors							Comments
		1	2	3	4	5	6	7	
Lab Control	A	10	10	10	8	8	8	8	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	9	9	9	
Control	A	10	10	10	10	8	7	5	
	B	10	10	10	9	9	9	9	
	C	10	10	10	10	10	10	10	
12.5	A	10	10	10	10	10	10	10	
	B	10	10	10	9	9	9	9	
	C	10	10	10	10	10	10	10	
25	A	10	10	10	9	9	9	9	
	B	9	9	9	8	6	5	5	
	C	9	9	9	9	9	8	8	
50	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	8	8	8	8	7	7	7	
100	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	7	7	6	
200	A	10	9	9	9	9	9	9	
	B	10	10	10	10	10	8	8	
	C	10	10	10	10	9	9	9	
400	A	8	8	8	6	6	6	6	
	B	10	10	10	10	9	9	9	
	C	10	10	10	10	8	8	8	
	A								
	B								
	C								
	A								
	B								
	C								
Tech Initials		KJL	A	~	KJL	KJL	KJL	KJL	

Comments: Organisms appear ok at test termination.

Reviewed by: _____ **Date reviewed:** _____

Fathead Minnow Toxicity Test Data Sheet

Dry Weight Data

Client: Ekati / Rescan

Start Date: 15-Sep-11

Sample ID: **Slipper**

Termination Date: 22-Sep-11

Work Order No.: 11432

(mg/L NO_3)

Sample ID	Rep	Pan No. blue	No. alive	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Lab Control	A	1	8	KJL	1313.85	1316.86	8	ARG
	B	2	10		1321.52	1324.98	10	ARG
	C	3	9		1313.45	1316.96	9	ARG
Control	A	4	5		1318.39	1320.39	5	ARG
	B	5	9		1309.23	1313.73	9	ARG
	C	6	10		1309.78	1314.67	10	ARG
12.5	A	7	10		1326.40	1331.16	10	ARG
	B	8	9		1308.15	1313.37	9	ARG
	C	9	10		1306.19	1310.20	10	ARG
25	A	10	9		1326.42	1330.86	9	ARG
	B	11	5		1331.80	1334.84	5	ARG
	C	12	8		1306.80	1310.99	8	ARG
50	A	13	10		1304.61	1309.96	10	ARG
	B	14	10		1316.15	1321.42	10	ARG
	C	15	7		1317.14	1320.79	7	ARG
100	A	16	10		1330.08	1334.48	10	ARG
	B	17	10		1322.19	1327.13	10	ARG
	C	18	6		1316.93	1320.35	6	ARG
200	A	19	9		1317.04	1321.69	9	ARG
	B	20	8		1329.72	1333.64	8	ARG
	C	21	9		1325.92	1330.36	9	ARG
400	A	22	6		1311.43	1314.46	6	ARG
	B	23	9		1308.20	1312.51	9	ARG
	C	24	8		1309.95	1313.84	8	ARG

Comments: Reweighed pans 6 (1314.65mg) and 14 (1321.36mg)

Reviewed by: _____

Date Reviewed: _____

Generated: March 17, 2009

Fathead Minnow 7-d Larval Survival and Growth Test

Nautilus Environmental

Analysis ID:	15-4515-4621	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:27	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	02-5964-6254	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Karen Lee
Start Date:	15 Sep-11 16:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	22 Sep-11 14:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	09-2649-5367	**Code:**	11432d	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	10d 16h	**Station:**	Slipper		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1.384E+09	200	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC10	202.3	N/A	N/A	0.4944	N/A	N/A
EC15	318.6	N/A	N/A	0.3138	N/A	N/A
EC25	>413	N/A	N/A	<0.2421	N/A	N/A
EC50	>413	N/A	N/A	<0.2421	N/A	N/A

7d Survival Rate Summary

Calculated Variate(A/B)

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0.0169	Receiving Water	3	0.9	0.8	1	0.05774	0.1	11.11%	0.0%	27	30
12.1		3	0.9667	0.9	1	0.03333	0.05773	5.97%	-7.41%	29	30
24.1		3	0.7333	0.5	0.9	0.1202	0.2082	28.39%	18.52%	22	30
49.3		3	0.9	0.7	1	0.1	0.1732	19.25%	0.0%	27	30
94.3		3	0.8667	0.6	1	0.1333	0.2309	26.65%	3.7%	26	30
199		3	0.8667	0.8	0.9	0.03333	0.05773	6.66%	3.7%	26	30
413		3	0.7667	0.6	0.9	0.08819	0.1528	19.92%	14.81%	23	30

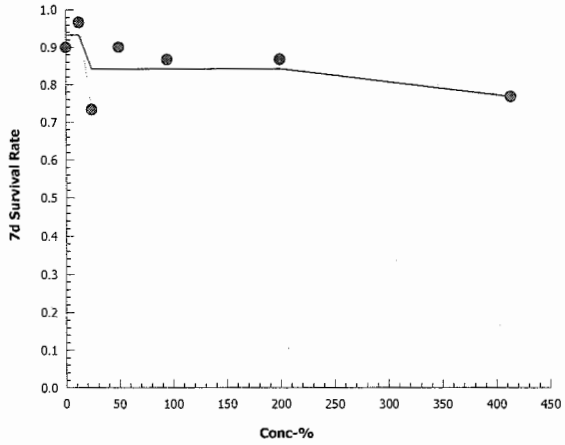
7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3
0.0169	Receiving Water	0.8	1	0.9
12.1		1	0.9	1
24.1		0.9	0.5	0.8
49.3		1	1	0.7
94.3		1	1	0.6
199		0.9	0.8	0.9
413		0.6	0.9	0.8

Fathead Minnow 7-d Larval Survival and Growth Test **Nautilus Environmental**

Analysis ID:	15-4515-4621	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:27	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test

Nautilus Environmental

Analysis ID:	18-3723-4037	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:27	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	02-5964-6254	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Karen Lee
Start Date:	15 Sep-11 16:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	22 Sep-11 14:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	09-2649-5367	**Code:**	11432d	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	10d 16h	**Station:**	Slipper		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	1.803E+09	200	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC10	387.3	N/A	N/A	0.2582	N/A	N/A
IC15	>413	N/A	N/A	<0.2421	N/A	N/A
IC25	>413	N/A	N/A	<0.2421	N/A	N/A
IC50	>413	N/A	N/A	<0.2421	N/A	N/A

Mean Dry Biomass-mg Summary

Calculated Variate

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0.0169	Receiving Water	3	0.3327	0.301	0.351	0.0159	0.02754	8.28%	0.0%
12.1		3	0.4663	0.401	0.522	0.03526	0.06107	13.1%	-40.18%
24.1		3	0.389	0.304	0.444	0.04311	0.07467	19.2%	-16.93%
49.3		3	0.4757	0.365	0.535	0.05538	0.09592	20.17%	-42.99%
94.3		3	0.4253	0.342	0.494	0.04449	0.07706	18.12%	-27.86%
199		3	0.4337	0.392	0.465	0.02169	0.03757	8.66%	-30.36%
413		3	0.3743	0.303	0.431	0.03768	0.06526	17.43%	-12.53%

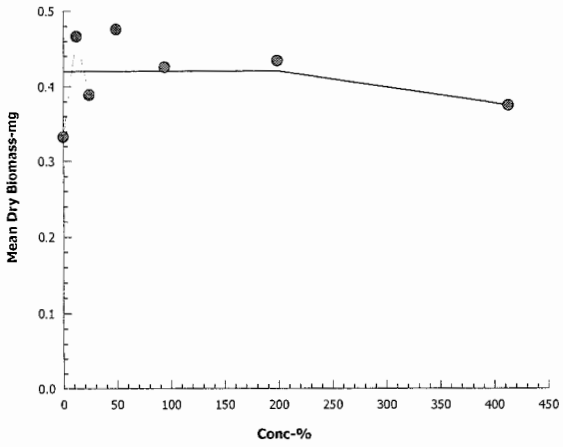
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3
0.0169	Receiving Water	0.301	0.346	0.351
12.1		0.476	0.522	0.401
24.1		0.444	0.304	0.419
49.3		0.535	0.527	0.365
94.3		0.44	0.494	0.342
199		0.465	0.392	0.444
413		0.303	0.431	0.389

Fathead Minnow 7-d Larval Survival and Growth Test **Nautilus Environmental**

Analysis ID:	18-3723-4037	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:27	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow Test Summary Sheet

(7-d *Pimephales promelas* Survival and Growth Test)

Client: Rescan (Ekati)
Work Order No.: 11432

Start Date/Time: Sept 15/11 @ 1600h
Test Species: *Pimephales promelas*

Sample Information:

Sample ID:	Nema
Sample Date:	Sept 5/11
Date Received:	Sept 9/11
Sample Volume:	5x 15L

Dilution Water (initial water quality):

Type:	Moderately Hard Synthetic Water
Temperature (°C)	25.0
pH	7.9
Dissolved Oxygen (mg/L)	8.0
Hardness (mg/L $CaCO_3$)	86
Alkalinity (mg/L $CaCO_3$)	68

Test Validity Criteria:

The test is invalid if :

1) for the control solutions, the combined and cumulative incidence of any mortalities, or fish showing loss of equilibrium or other signs of atypical swimming behavior, is >20%

2) the average dry weight of the surviving control fish does not attain 250 ug when the fish are dried and weighed.

WQ Ranges:

T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4; pH = 6 to 8.5

Test Organism Information:

Batch No.:	91511
Source:	Aquatic Biosystems
Age:	<24hr

NaCl Reference Toxicant Results:

Reference Toxicant ID:	PP62
Stock Solution ID:	n/a
Date Initiated:	Sept 15/11
7-d EC50 (95% CL):	4.4 (3.7 - 5.2)
7-d IC50 (95% CL):	3.8 (3.6 - 4.3)

Survival:

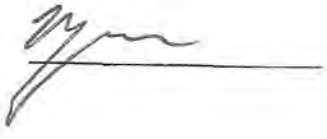
Reference Toxicant Mean and Historical Range: 4.7 (3.6 - 6.3) CV (%): 16

Biomass:

Reference Toxicant Mean and Historical Range: 4.1 (3.0 - 5.6) CV (%): 17

Test Results:

	Survival	Biomass
LC25 mg/L N (95% CL)	n/a	
LC50 mg/L N (95% CL)	414.0 (328.7 - 521.4)	
IC25 mg/L N (95% CL)		280.9 (155.6 - 394.6)
IC50 mg/L N (95% CL)		453.9 (348.2 - 591.7)

Reviewed by: 

Date reviewed: 31/1/2012

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Ekati / Rescan
Sample ID: Nema
Work Order #: 11432
Start Date & Time: 15-Sep-11 @ 1600h
Stop Date & Time: 22-Sep-11
Test Species: *Pimephales promelas*

($mg/L\ NO_3$) Concentration Control	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	25.5	25.0	25.0	25.5	25.0	25.0	25.0	26.0	24.5	25.0	26.0
DO (mg/L)	8.0	8.4	7.0	7.9	6.3	8.1	6.2	8.2	6.3	8.1	6.9	8.0	6.3	6.5
pH	7.2	7.3	7.0	7.4	7.1	7.6	7.3	7.6	7.4	7.4	7.3	7.3	7.1	7.2
Cond. (µS/cm)	342	346		341		350		347		349		337		326
Initials	AWD	KJL		AWD		AWD		ARG		ARG		ARG		ARG

Concentration 25	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	25.5	25.0	25.0	25.5	25.0	25.0	25.0	26.0	24.5	25.0	26.0
DO (mg/L)	8.0	8.4	7.0	7.9	6.4	8.1	6.3	8.2	6.4	8.2	7.0	8.1	6.3	6.3
pH	7.2	7.3	7.0	7.5	7.1	7.6	7.4	7.6	7.3	7.4	7.3	7.3	7.0	7.2
Cond. (µS/cm)	518	570		548		560		529		531		556		507
Initials	AWD	KJL		AWD		AWD		ARG		ARG		ARG		ARG

Concentration 200	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	25.5	25.0	25.0	25.5	25.0	25.0	25.0	26.0	24.5	25.0	26.0
DO (mg/L)	8.0	8.4	6.9	7.8	6.5	8.1	6.5	8.2	6.5	8.2	6.9	8.1	6.2	6.3
pH	7.2	7.3	7.2	7.5	7.2	7.5	7.4	7.5	7.3	7.4	7.4	7.4	7.0	7.2
Cond. (µS/cm)	1929	1941		2030		2100		1901		1918		1931		1988
Initials	AWD	KJL		AWD		AWD		ARG		ARG		ARG		ARG

Concentration 800	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	25.5	25.0	25.0	25.5	25.0	25.0	25.0	26.0	24.5	25.0	26.0
DO (mg/L)	8.0	8.3	7.1	7.9	6.5	8.1	6.6	8.1	6.5	8.1	7.1	8.0	6.5	6.4
pH	7.2	7.3	7.1	7.5	7.2	7.5	7.4	7.5	7.3	7.4	7.3	7.4	7.1	7.1
Cond. (µS/cm)	6180	6230		6230		6200		6160		6180		6210		6320
Initials	AWD	KJL		AWD		AWD		ARG		ARG		ARG		ARG

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control	100%(v/v)		
Hardness*	86	70		
Alkalinity*	68	28		

* mg/L as CaCO3

Analysts: KJL, AWD, ARG
Reviewed by:
Date reviewed:

Sample Description:

Comments:

7-d Fathead Minnow Toxicity Test
Daily Survival

Client: Ekati / Rescan
Sample ID: Nema
Work Order #: 1432

Start Date & Time: 15-Sep-11 @1630h
Stop Date: 22-Sep-11
Test Species: *Pimephales promelas*

Concentration mg/L NO_3	Rep	Day of Test - No. of Survivors							Comments
		1	2	3	4	5	6	7	
Lab Control	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	9	9	
	C	10	10	10	10	10	9	9	
Control	A	9	9	9	7	7	7	7	
	B	10	10	10	7	7	7	7	
	C	9	9	9	7	7	7	7	
25	A	10	10	10	8	7	6	6	
	B	10	10	10	10	10	9	9	
	C	10	10	10	9	8	8	7	
50	A	9	9	8	7	7	7	7	
	B	9	9	9	9	9	8	8	
	C	10	10	10	10	10	10	10	
100	A	9	9	9	9	9	9	9	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
200	A	10	10	9	8	8	7	5	
	B	9	9	6	5	5	4	4	
	C	10	10	9	9	7	7	5	
400	A	10	10	10	9	9	8	7	
	B	10	10	10	10	9	4	4	
	C	10	10	9	9	9	9	7	
800	A	5	3	2	2	2	2	1	
	B	5	2	2	2	2	2	1	
	C	7	6	3	2	2	1	1	
	A								
	B								
	C								
	A								
	B								
	C								
Tech Initials		KJL	[illegible]	[illegible]	KJL	KJL	KJL	KJL	

Comments: Organisms appear o/c at test termination.

Reviewed by: _____ **Date reviewed:** _____

Fathead Minnow Toxicity Test Data Sheet

Dry Weight Data

Client: Ekati / Rescan

Start Date: 15-Sep-11

Sample ID: **Nema**

Termination Date: 22-Sep-11

Work Order No.: 11432

(mg/L NO_3)

Sample ID	Rep	Pan No. blue	No. alive	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Lab Control	A	25	10	KJV	1317.39	1321.45	10	ARG
	B	26	9		1338.54	1342.89	9	ARG
	C	27	9		1308.32	1312.07	9	ARG
Control	A	28	7		1306.41	1310.56	7	ARG
	B	29	7		1307.33	1311.26	7	ARG
	C	30	7		1310.14	1314.39	7	ARG
25	A	31	6		1314.12	1317.89	6	ARG
	B	32	9		1318.50	1322.53	9	ARG
	C	33	7		1320.64	1324.40	7	ARG
50	A	34	7		1309.41	1312.68	7	ARG
	B	35	8		1307.40	1311.51	8	ARG
	C	36	10		1317.34	1321.84	10	ARG
100	A	37	9		1318.73	1323.06	9	ARG
	B	38	10		1307.97	1312.49	10	ARG
	C	39	10		1316.21	1321.08	10	ARG
200	A	40	5		1320.92	1323.66	5	ARG
	B	41	4		1317.85	1320.45	4	ARG
	C	42	5		1308.36	1310.99	5	ARG
400	A	43	7		1308.19	1311.08	7	ARG
	B	44	4		1316.17	1318.30	4	ARG
	C	45	7		1322.92	1326.01	7	ARG
800	A	46	1		1310.37	1310.64	1	ARG
	B	47	1		1311.14	1311.55	1	ARG
	C	48	1		1322.44	1322.78	1	ARG

Comments: Reweighed pans 25 (1321.42mg) and 38 (1312.33mg)

Reviewed by: _____

Date Reviewed: _____

Generated: March 17, 2009

Fathead Minnow 7-d Larval Survival and Growth Test

Nautilus Environmental

Analysis ID:	07-7021-3488	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:19	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes
Batch ID:	02-8021-5736	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Karen Lee
Start Date:	15 Sep-11 16:00	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	22 Sep-11 14:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	01-4449-7669	**Code:**	11432c	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	10d 16h	**Station:**	Nema		

Non-Linear Regression Options

Model Function	X Transform	Y Transform	Weighting Function	PTBS Function
3P Log-Logistic EV [Y=A/(1+(X/D)^C)]	None	None	Normal [W=1]	Off [Y*=Y]

Regression Summary

Iters	Log LL	AICc	BIC	Adj R2	Optimize	F Stat	Critical	P-Value	Decision(α:5%)
16	49.22	-91.04	-89.31	0.7967	Yes	12.31	3.112	0.0002	Significant Lack of Fit

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC10	173.8	N/A	266.6	0.5752	0.3751	N/A
IC15	212.8	N/A	314.7	0.47	0.3178	N/A
IC25	280.9	155.6	394.6	0.356	0.2534	0.6426
IC50	453.9	348.2	591.7	0.2203	0.169	0.2872

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(α:5%)
A	0.4042	0.02016	0.3618	0.4465	20.04	<0.0001	Significant Parameter
C	2.289	0.7059	0.8065	3.772	3.244	0.0045	Significant Parameter
D	453.9	62.26	323.1	584.7	7.29	<0.0001	Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Model	0.3176488	0.3176488	1	80.4	<0.0001	Significant
Lack of Fit	0.0553737	0.0138434	4	12.31	0.0002	Significant
Pure Error	0.0157436	0.0011245	14			
Residual	0.0711173	0.003951	18			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Variances	Bartlett Equality of Variance	12.58	12.59	0.0502	Equal Variances
	Mod Levene Equality of Variance	2.033	3.866	0.1874	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9518	0.9079	0.3684	Normal Distribution
	Anderson-Darling A2 Normality	0.3173	2.492	0.5623	Normal Distribution

Mean Dry Biomass-mg Summary

Calculated Variate

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0.407	Receiving Water	3	0.411	0.393	0.425	0.00945	0.01637	3.98%	0.0%
22.1		3	0.3853	0.376	0.403	0.008839	0.01531	3.97%	6.25%
56.1		3	0.396	0.327	0.45	0.03629	0.06286	15.87%	3.65%
98.6		3	0.4573	0.433	0.487	0.01581	0.02739	5.99%	-11.27%
207		3	0.2657	0.26	0.274	0.004256	0.007371	2.78%	35.36%
452		3	0.2703	0.213	0.309	0.02924	0.05065	18.74%	34.23%
803		3	0.034	0.027	0.041	0.004042	0.007001	20.59%	91.73%

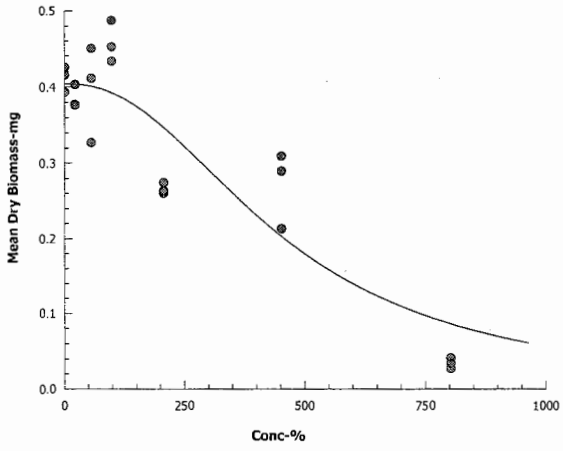
Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

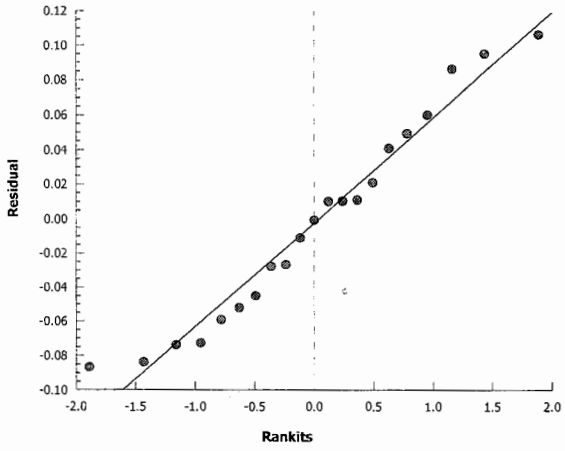
Analysis ID: 07-7021-3488 **Endpoint:** Mean Dry Biomass-mg **CETIS Version:** CETISv1.8.0
Analyzed: 30 Jan-12 16:19 **Analysis:** Nonlinear Regression **Official Results:** Yes

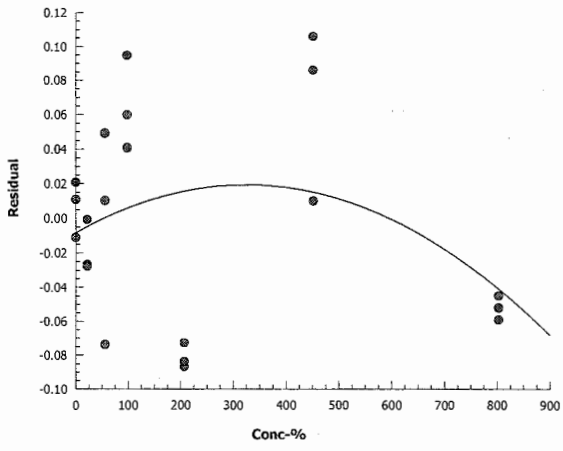
Mean Dry Biomass-mg Detail

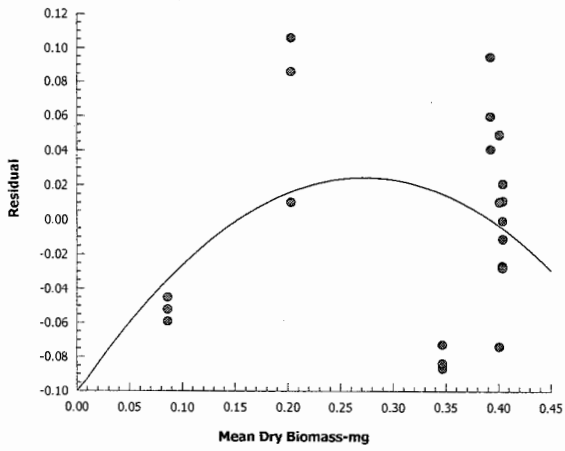
Conc-%	Control Type	Rep 1	Rep 2	Rep 3
0.407	Receiving Water	0.415	0.393	0.425
22.1		0.377	0.403	0.376
56.1		0.327	0.411	0.45
98.6		0.433	0.452	0.487
207		0.274	0.26	0.263
452		0.289	0.213	0.309
803		0.027	0.041	0.03401

Graphics 3P Log-Logistic EV [Y=A/(1+(X/D)^C)]









CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test

Nautilus Environmental

Analysis ID:	01-5090-3090	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:19	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	02-8021-5736	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Karen Lee
Start Date:	15 Sep-11 16:00	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	22 Sep-11 14:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	01-4449-7669	**Code:**	11432c	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	10d 16h	**Station:**	Nema		

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0.3	12.37%	2.617	0.05008	414	328.7	521.4

7d Survival Rate Summary

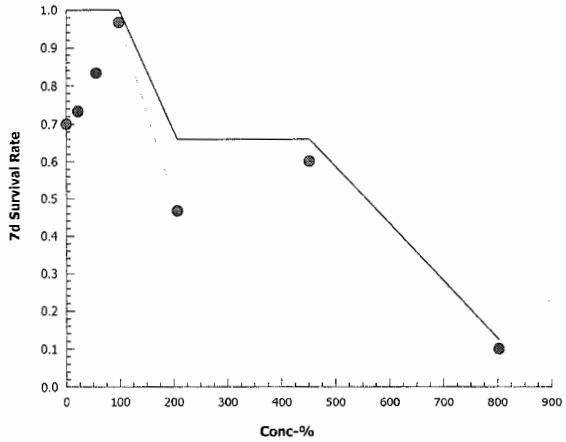
Calculated Variate(A/B)

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0.407	Receiving Water	3	0.7	0.7	0.7	0	0	0.0%	0.0%	21	30
22.1		3	0.7333	0.6	0.9	0.08819	0.1528	20.83%	-4.76%	22	30
56.1		3	0.8333	0.7	1	0.08819	0.1528	18.33%	-19.05%	25	30
98.6		3	0.9667	0.9	1	0.03333	0.05773	5.97%	-38.1%	29	30
207		3	0.4667	0.4	0.5	0.03333	0.05774	12.37%	33.33%	14	30
452		3	0.6	0.4	0.7	0.1	0.1732	28.87%	14.29%	18	30
803		3	0.1	0.1	0.1	0	0	0.0%	85.71%	3	30

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3
0.407	Receiving Water	0.7	0.7	0.7
22.1		0.6	0.9	0.7
56.1		0.7	0.8	1
98.6		0.9	1	1
207		0.5	0.4	0.5
452		0.7	0.4	0.7
803		0.1	0.1	0.1

Graphics



Fathead Minnow Test Summary Sheet

(7-d *Pimephales promelas* Survival and Growth Test)

Client: Rescan (Ekati)
Work Order No.: 11432

Start Date/Time: Sept 15/11 @ 1600h
Test Species: *Pimephales promelas*

Sample Information:

Sample ID:	Leslie
Sample Date:	Sept 5/11
Date Received:	Sept 9/11
Sample Volume:	5x 15L

Dilution Water (initial water quality):

Type:	Moderately Hard Synthetic Water
Temperature (°C)	25.0
pH	7.9
Dissolved Oxygen (mg/L)	8.0
Hardness (mg/L $CaCO_3$)	86
Alkalinity (mg/L $CaCO_3$)	68

Test Validity Criteria:

The test is invalid if :

1) for the control solutions, the combined and cumulative incidence of any mortalities, or fish showing loss of equilibrium or other signs of atypical swimming behavior, is >20%

2) the average dry weight of the surviving control fish does not attain 250 ug when the fish are dried and weighed.

WQ Ranges:

T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4; pH = 6 to 8.5

Test Organism Information:

Batch No.:	91511
Source:	Aquatic Biosystems
Age:	<24hr

NaCl Reference Toxicant Results:

Reference Toxicant ID:	PP62
Stock Solution ID:	n/a
Date Initiated:	Sept 15/11
7-d EC50 (95% CL):	4.4 (3.7 - 5.2)
7-d IC50 (95% CL):	3.8 (3.6 - 4.3)

Survival:

Reference Toxicant Mean and Historical Range: 4.7 (3.6 - 6.3) CV (%): 16

Biomass:

Reference Toxicant Mean and Historical Range: 4.1 (3.0 - 5.6) CV (%): 17

Test Results:

	Survival	Biomass
LC25 mg/L N (95% CL)	n/a	
LC50 mg/L N (95% CL)	685.4 (576.9 - 770.0)	
IC25 mg/L N (95% CL)		420.1 (326.6 - 495.9)
IC50 mg/L N (95% CL)		556.7 (478.4 - 647.8)

Reviewed by:

Date reviewed: 31/1/2012

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Ekati / Rescan
Sample ID: Leslie
Work Order #: 11432

Start Date & Time: 15-Sep-11 @ 1500h
Stop Date & Time: 22-Sep-11
Test Species: *Pimephales promelas*

($mg/L\ NO_3$) Concentration Control	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	24.0	25.5	24.0	25.0	24.5	25.0	25.0	25.5	24.0	25.0	24.5	24.5
DO (mg/L)	8.3	8.4	7.0	8.0	6.7	8.1	6.4	8.2	6.9	8.2	7.0	8.3	6.4	6.3
pH	7.5	7.3	7.5	7.6	7.5	7.9	7.3	7.8	7.3	7.7	7.6	7.6	7.3	7.2
Cond. (µS/cm)	779	785		792		800		772		777		774 [813] 806		812
Initials	AM	KJL		AM		AM		ARG		ARG		ARG		ARG

Concentration 25	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	25.5	24.0	25.0	24.5	25.0	25.0	25.5	24.0	25.0	24.5	24.5
DO (mg/L)	8.3	8.3	6.9	8.1	6.6	8.1	6.3	8.2	6.6	8.2	7.1	8.3	6.3	6.4
pH	7.5	7.3	7.4	7.6	7.5	7.9	7.3	7.8	7.4	7.7	7.6	7.5	7.2	7.3
Cond. (µS/cm)	951	966		1014		1078		970		958		994		1036
Initials	AM	KJL		AM		AM		ARG		ARG		ARG		ARG

Concentration 200	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	24.0	25.5	24.0	25.0	24.5	25.0	25.0	25.5	24.0	25.0	24.5	24.5
DO (mg/L)	8.3	8.4	7.0	8.0	6.6	8.2	6.2	8.3	6.8	8.2	6.9	8.3	6.4	6.4
pH	7.5	7.2	7.5	7.5	7.4	7.8	7.3	7.7	7.4	7.7	7.6	7.5	7.3	7.3
Cond. (µS/cm)	2290	2350		2215		2430		2280		2360		2470		2490
Initials	AM	KJL		AM		AM		ARG		ARG		ARG		ARG

Concentration 800	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	24.0	25.5	24.0	25.0	24.5	25.0	25.0	25.5	24.0	25.0	24.5	24.5
DO (mg/L)	8.3	8.4	7.2	8.0	6.7	8.1	6.3	8.2	6.6	8.1	7.0	8.2	6.5	6.5
pH	7.5	7.3	7.5	7.5	7.5	7.9	7.4	7.7	7.5	7.6	7.7	7.5	7.3	7.3
Cond. (µS/cm)	6600	6640		6432		6500		6570		6510		ARG 6600		6680
Initials	AM	KJL		AM		AM		ARG		ARG		6600 ARG		ARG

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control	100% (v/v)		
Hardness*	86	138		
Alkalinity*	68	40		

* mg/L as CaCO3

Analysts: KJL, AWD, ARG

Reviewed by:

Date reviewed:

Sample Description:

Comments:

7-d Fathead Minnow Toxicity Test
Daily Survival

Client: Ekati / Resean
Sample ID: Leslie
Work Order #: 11432

Start Date & Time: 15-Sep-11 @1630h
Stop Date: 22-Sep-11
Test Species: *Pimephales promelas*

Concentration mg/L NO_3	Rep	Day of Test - No. of Survivors							Comments
		1	2	3	4	5	6	7	
Lab Control	A	10	10	10	10	10	10	10	
	B	10	10	9	8	8	8	8	
	C	10	10	10	10	10	10	10	
Control	A	10	10	10	10	10	8	8	
	B	10	10	10	10	8	8	8	
	C	10	10	10	10	10	10	9	
25	A	10	10	9	8	8	8	8	
	B	9	9	9	8	8	8	8	
	C	9	9	9	7	7	7	7	
50	A	9	9	9	9	8	8	7	
	B	10	10	10	9	8	8	8	
	C	9	9	9	9	9	9	9	
100	A	10	10	10	9	9	7	7	
	B	10	10	10	9	9	8	8	
	C	10	10	10	10	10	10	10	
200	A	9	9	9	9	9	9	9	
	B	9	9	8	8	8	7	7	
	C	10	10	10	10	10	10	10	
400	A	10	10	10	9	9	9	8	
	B	10	10	10	10	10	10	9	
	C	10	9	9	9	9	8	8	
800	A	10	10	10	6	5	4	4	
	B	9	8	6	3	2	2	2	
	C	8	8	7	7	5	4	4	
	A								
	B								
	C								
	A								
	B								
	C								
Tech Initials		KJL	[illegible]	[illegible]	KJL	KJL	KJL	KJL	

Comments: Organisms appear OK at test termination.

Reviewed by: _____ **Date reviewed:** _____

Fathead Minnow Toxicity Test Data Sheet

Dry Weight Data

Client: Ekati / Rescan

Start Date: 15-Sep-11

Sample ID: **Leslie**

Termination Date: 22-Sep-11

Work Order No.: 11432

(mg/L NO_3)

Sample ID	Rep	Pan No. blue	No. alive	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Lab Control	A	73	10	KJL	1302.53	1307.09	10	ARG
	B	74	8		1297.60	1301.67	8	ARG
	C	75	10		1314.38	1318.95	10	ARG
Control	A	76	8		1308.71	1312.78	8	ARG
	B	77	8		1323.15	1327.40	8	ARG
	C	78	9		1301.24	1306.28	9	ARG
25	A	79	8		1311.37	1315.46	8	ARG
	B	80	8		1313.64	1318.39	8	ARG
	C	81	7		1305.40	1309.63	7	ARG
50	A	82	7		1313.33	1316.83	7	ARG
	B	83	8		1305.38	1309.89	8	ARG
	C	84	9		1305.66	1309.58	9	ARG
100	A	85	7		1302.31	1305.60	7	ARG
	B	86	8		1314.44	1318.88	8	ARG
	C	87	10		1298.31	1303.19	10	ARG
200	A	88	8		1310.17	1314.53	8	ARG
	B	89	7		1319.24	1323.08	7	ARG
	C	90	10		1304.55	1308.69	10	ARG
400	A	91	8		1315.36	1318.38	8	ARG
	B	92	9		1320.31	1324.35	9	ARG
	C	93	8		1315.63	1318.70	8	ARG
800	A	94	4		1322.29	1323.51	4	ARG
	B	95	2		1307.69	1308.29	2	ARG
	C	96	4		1301.02	1301.98	4	ARG

Comments: Reweighed pans 75 (1319.81mg) and 87 (1303.03mg)

Reviewed by: _____

Date Reviewed: _____

Generated: March 17, 2009

CETIS Analytical Report

Test Code: 11432b | 06-4193-0334

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	19-9900-6397	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:13	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	11-0196-9530	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Karen Lee
Start Date:	15 Sep-11 15:00	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	22 Sep-11 14:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	18-1802-8663	**Code:**	11432b	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	10d 15h	**Station:**	Leslie		

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0.1667	40.00%	2.836	0.03742	685.4	576.9	814.4

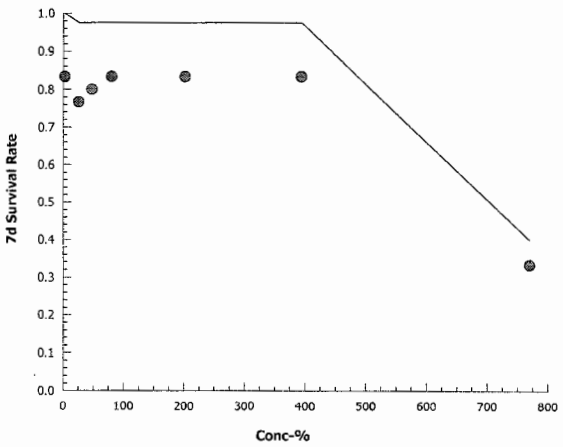
7d Survival Rate Summary — **Calculated Variate(A/B)**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
2.73	Receiving Water	3	0.8333	0.8	0.9	0.03333	0.05774	6.93%	0.0%	25	30
25.8		3	0.7667	0.7	0.8	0.03333	0.05774	7.53%	8.0%	23	30
47.7		3	0.8	0.7	0.9	0.05774	0.1	12.5%	4.0%	24	30
80.4		3	0.8333	0.7	1	0.08819	0.1528	18.33%	0.0%	25	30
202		3	0.8333	0.7	1	0.08819	0.1528	18.33%	0.0%	25	30
394		3	0.8333	0.8	0.9	0.03333	0.05774	6.93%	0.0%	25	30
770		3	0.3333	0.2	0.4	0.06667	0.1155	34.64%	60.0%	10	30

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3
2.73	Receiving Water	0.8	0.8	0.9
25.8		0.8	0.8	0.7
47.7		0.7	0.8	0.9
80.4		0.7	0.8	1
202		0.8	0.7	1
394		0.8	0.9	0.8
770		0.4	0.2	0.4

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	12-5401-7426	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:14	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes
Batch ID:	11-0196-9530	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Karen Lee
Start Date:	15 Sep-11 15:00	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	22 Sep-11 14:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 23h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	18-1802-8663	**Code:**	11432b	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	10d 15h	**Station:**	Leslie		

Non-Linear Regression Options

Model Function	X Transform	Y Transform	Weighting Function	PTBS Function
3P Log-Logistic EV [Y=A/(1+(X/D)^C)]	None	None	Normal [W=1]	Off [Y*=Y]

Regression Summary

Iters	Log LL	AICc	BIC	Adj R2	Optimize	F Stat	Critical	P-Value	Decision(α:5%)
9	55.2	-103	-101.3	0.8576	Yes	0.3816	3.112	0.8181	Non-Significant Lack of Fit

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC10	317.1	88.61	389.8	0.3154	0.2566	1.129
IC15	356.9	231.1	430.7	0.2802	0.2322	0.4327
IC25	420.1	326.6	495.9	0.238	0.2017	0.3061
IC50	556.7	478.4	647.8	0.1796	0.1544	0.209

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(α:5%)
A	0.4239	0.0127	0.3972	0.4506	33.37	<0.0001	Significant Parameter
C	3.903	0.8243	2.171	5.635	4.735	0.0002	Significant Parameter
D	556.7	41.11	470.3	643.1	13.54	<0.0001	Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Model	0.2738582	0.2738582	1	122.5	<0.0001	Significant
Lack of Fit	0.0039565	0.0009891	4	0.3816	0.8181	Non-Significant
Pure Error	0.0362856	0.0025918	14			
Residual	0.0402421	0.0022357	18			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Variances	Bartlett Equality of Variance	3.13	12.59	0.7924	Equal Variances
	Mod Levene Equality of Variance	0.4798	3.866	0.8052	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9718	0.9079	0.7722	Normal Distribution
	Anderson-Darling A2 Normality	0.2966	2.492	0.6223	Normal Distribution

Mean Dry Biomass-mg Summary — **Calculated Variate**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
2.73	Receiving Water	3	0.4453	0.407	0.504	0.02979	0.0516	11.59%	0.0%
25.8		3	0.4357	0.409	0.475	0.02008	0.03478	7.98%	2.17%
47.7		3	0.3977	0.35	0.451	0.02929	0.05074	12.76%	10.7%
80.4		3	0.4203	0.329	0.488	0.0474	0.0821	19.53%	5.62%
202		3	0.4113	0.384	0.436	0.01507	0.0261	6.35%	7.64%
394		3	0.3377	0.302	0.404	0.0332	0.0575	17.03%	24.18%
770		3	0.09267	0.06001	0.122	0.01797	0.03113	33.59%	79.19%

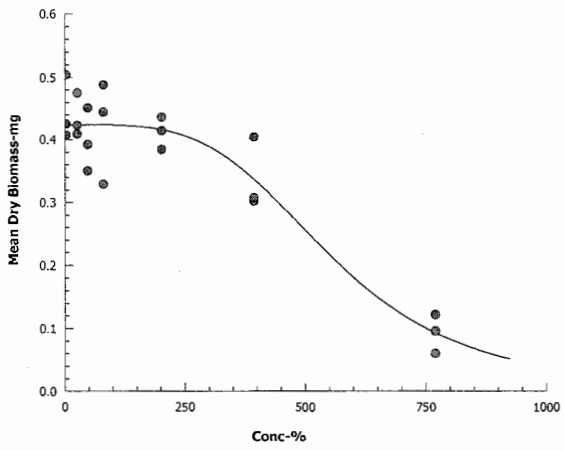
Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

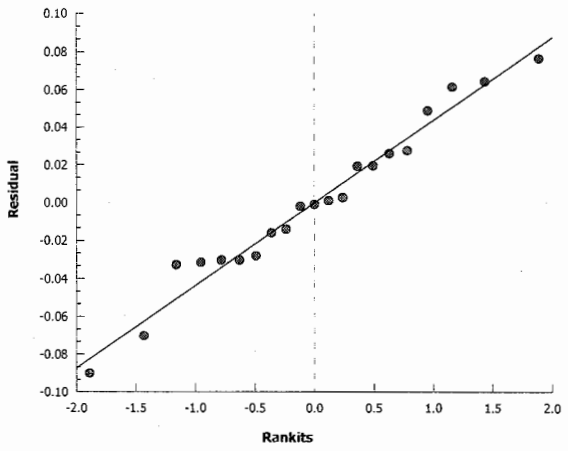
Analysis ID:	12-5401-7426	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:14	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes

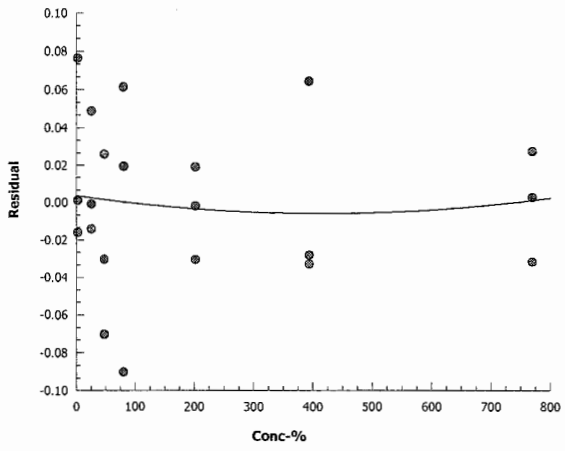
Mean Dry Biomass-mg Detail

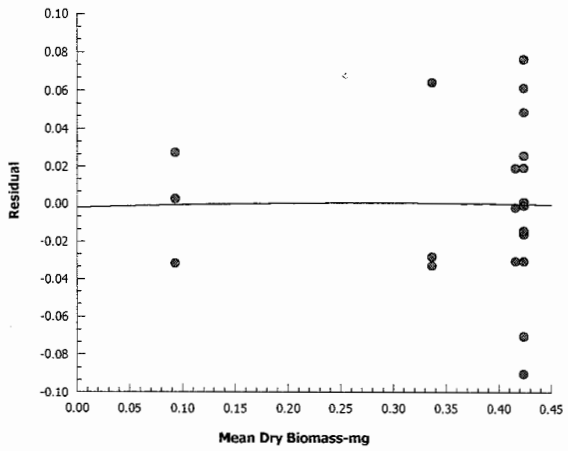
Conc-%	Control Type	Rep 1	Rep 2	Rep 3
2.73	Receiving Water	0.407	0.425	0.504
25.8		0.409	0.475	0.423
47.7		0.35	0.451	0.392
80.4		0.329	0.444	0.488
202		0.436	0.384	0.414
394		0.302	0.404	0.307
770		0.122	0.06001	0.096

Graphics 3P Log-Logistic EV [Y=A/(1+(X/D)^C)]









Fathead Minnow Test Summary Sheet

(7-d *Pimephales promelas* Survival and Growth Test)

Client: Rescan (Ekati)
Work Order No.: 11432

Start Date/Time: Sept 15/11 @ 1600h
Test Species: *Pimephales promelas*

Sample Information:

Sample ID:	Moose
Sample Date:	Sept 5/11
Date Received:	Sept 9/11
Sample Volume:	5x 15L

Dilution Water (initial water quality):

Type:	Moderately Hard Synthetic Water
Temperature (°C)	25.0
pH	7.9
Dissolved Oxygen (mg/L)	8.0
Hardness (mg/L $CaCO_3$)	86
Alkalinity (mg/L $CaCO_3$)	68

Test Validity Criteria:

The test is invalid if :

1) for the control solutions, the combined and cumulative incidence of any mortalities, or fish showing loss of equilibrium or other signs of atypical swimming behavior, is >20%

2) the average dry weight of the surviving control fish does not attain 250 ug when the fish are dried and weighed.

WQ Ranges:

T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4; pH = 6 to 8.5

Test Organism Information:

Batch No.:	91511
Source:	Aquatic Biosystems
Age:	<24hr

NaCl Reference Toxicant Results:

Reference Toxicant ID:	PP62
Stock Solution ID:	n/a
Date Initiated:	Sept 15/11
7-d EC50 (95% CL):	4.4 (3.7 - 5.2)
7-d IC50 (95% CL):	3.8 (3.6 - 4.3)

Survival:

Reference Toxicant Mean and Historical Range: 4.7 (3.6 - 6.3) CV (%): 16

Biomass:

Reference Toxicant Mean and Historical Range: 4.1 (3.0 - 5.6) CV (%): 17

Test Results:

	Survival	Biomass
LC25 mg/L N (95% CL)	n/a	
LC50 mg/L N (95% CL)	443.0 (358.2 - 547.8)	
IC25 mg/L N (95% CL)		357.3 (254.6 - 421.7)
IC50 mg/L N (95% CL)		437.9 (373.2 - 513.8)

Reviewed by:

Date reviewed: 3/1/2012

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Ekati/Rescan
Sample ID: Moose
Work Order #: 11432

Start Date & Time: 15-Sep-11 @ 1615h
Stop Date & Time: 22-Sep-11
Test Species: *Pimephales promelas*

(mg/L NO_3) Concentration Control	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.5	25.0	25.0	25.0
DO (mg/L)	8.2	8.3	7.0	8.0	6.6	8.2	6.3	8.2	6.7	8.2	6.7	8.1	6.4	6.6
pH	7.2	7.3	7.0	7.5	7.2	7.6	7.4	7.5	7.4	7.5	7.3	7.3	7.1	7.2
Cond. (µS/cm)	432	440		435		458		434		427		424		456
Initials	AD	KJL		AD		AD		ARG		ARG		ARG		ARG

Concentration 25	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.5	25.0	25.0	25.0
DO (mg/L)	8.2	8.3	7.1	8.0	6.7	8.2	6.4	8.2	6.9	8.2	6.6	8.1	6.2	6.4
pH	7.2	7.4	7.1	7.5	7.3	7.6	7.4	7.5	7.4	7.4	7.3	7.2	7.0	7.1
Cond. (µS/cm)	~~435~~ 637	649		684		718		646		626		634		683
Initials	AD	KJL		AD		AD		ARG		ARG		ARG		ARG

Concentration 200	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.5	25.0	25.0	25.0
DO (mg/L)	8.2	8.4	7.0	8.0	6.6	8.2	6.5	8.3	6.8	8.3	6.5	8.1	6.2	6.5
pH	7.2	7.4	7.2	7.6	7.3	7.6	7.4	7.5	7.3	7.4	7.2	7.3	7.0	7.1
Cond. (µS/cm)	~~1955~~ 1992	2060		2035		2000		1992		1953		1983		2040
Initials	AD	KJL		AD		AD		ARG		ARG		ARG		ARG

Concentration 800	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.5	25.0	25.0	25.0
DO (mg/L)	8.2	8.3	7.0	7.9	6.6	8.1	6.5	8.1	6.9	8.2	6.6	8.2	6.4	6.5
pH	7.3	7.3	7.2	7.5	7.3	7.5	7.3	7.5	7.3	7.4	7.2	7.3	7.2	7.2
Cond. (µS/cm)	6380	6380		6330		6320		6350		6330		6340		6460
Initials	AD	KJL		AD		AD		ARG		ARG		ARG		ARG

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control	100% (v/v)		
Hardness*	86	78		
Alkalinity*	68	26		

* mg/L as CaCO3

Analysts: KJL, AWD, ARG
Reviewed by:
Date reviewed:

Sample Description:

Comments:

7-d Fathead Minnow Toxicity Test
Daily Survival

Client: EKati / Rescan
Sample ID: Moose
Work Order #: 11432

Start Date & Time: 15-Sep-11 @1630h
Stop Date: 22-Sep-11
Test Species: *Pimephales promelas*

Concentration mg/L NO_3	Rep	Day of Test - No. of Survivors							Comments
		1	2	3	4	5	6	7	
Lab Control	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	9	9	9	9	9	
Control	A	9	9	9	8	8	7	7	
	B	10	10	10	10	8 (1)	8	7	(1) 2 stuck to side of jar
	C	10	10	10	9	8	8	8	
25	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	9	9	9	
50	A	10	10	9	9	8	8	8	
	B	10	10	10	9	9	9	9	
	C	10	10	10	10	10	10	10	
100	A	10	10	10	10	10	10	10	
	B	10	10	10	10	9	9	9	
	C	10	10	10	10	10	10	10	
200	A	10	10	10	10	9	8	8	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	8	8	
400	A	10	10	10	9	9	5	5	
	B	10	10	9	8	7	6	5	
	C	10	10	10	10	10	9	5	
800	A	9	6	4	3	2	1	1	
	B	8	5	4	4	3	3	2	
	C	10	7	6	6	5 (2)	2	2	(2) some lying on sides
	A								
	B								
	C								
	A								
	B								
	C								
Tech Initials		KJL	M	N	KJL	KDL	KJL	ARG	

Comments: Organisms appear ok at test termination.

Reviewed by: _____ **Date reviewed:** _____

Fathead Minnow Toxicity Test Data Sheet

Dry Weight Data

Client: Ekati / Rescan

Start Date: 15-Sep-11

Sample ID: **Moose**

Termination Date: 22-Sep-11

Work Order No.: 11432

(mg/L NO_3)

Sample ID	Rep	Pan No. nine	No. alive	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Lab Control	A	49	10	ARG	1297.23	1302.37	10	ARG
	B	50	10	ARG	1314.31	1319.32	10	ARG
	C	51	9	ARG	1317.95	1322.56	9	ARG
Control	A	52	7	ARG	1306.96	1309.80	7	ARG
	B	53	7	ARG	1315.33	1318.46	7	ARG
	C	54	8	ARG	1300.41	1304.85	8	ARG
25	A	55	10	ARG	1305.31	1310.34	10	ARG
	B	56	10	ARG	1317.33	1322.55	10	ARG
	C	57	9	ARG	1318.55	1322.69	9	ARG
50	A	58	8	ARG	1306.24	1310.98	8	ARG
	B	59	9	ARG	1319.30	1324.20	9	ARG
	C	60	10	ARG	1307.53	1313.22	10	ARG
100	A	61	10	ARG	1307.60	1312.83	10	ARG
	B	62	9	ARG	1306.10	1311.77	9	ARG
	C	63	10	ARG	1306.54	1311.62	10	ARG
200	A	64	8	ARG	1305.41	1309.16	8	ARG
	B	65	10	ARG	1302.44	1307.35	10	ARG
	C	66	8	ARG	1303.01	1307.80	8	ARG
400	A	67	5	ARG	1304.10	1306.82	5	ARG
	B	68	5	ARG	1307.86	1311.07	5	ARG
	C	69	5	ARG	1305.72	1308.51	5	ARG
800	A	70	1	ARG	1309.76	1309.89	1	ARG
	B	71	2	ARG	1304.95	1305.12	2	ARG
	C	72	2	ARG	1304.66	1304.89	2	ARG

Comments: Reweighed pans 50 (1319.23mg) and 63 (1311.44mg)

Reviewed by: _____

Date Reviewed: _____

Generated: March 17, 2009

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	11-7236-4380	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:24	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes
Batch ID:	20-5182-3307	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Karen Lee
Start Date:	15 Sep-11 16:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	22 Sep-11 14:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	11-0542-6896	**Code:**	11432a	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	10d 16h	**Station:**	Moose		

Non-Linear Regression Options

Model Function	X Transform	Y Transform	Weighting Function	PTBS Function
3P Log-Logistic EV [Y=A/(1+(X/D)^C)]	None	None	Normal [W=1]	Off [Y*=Y]

Regression Summary

Iters	Log LL	AICc	BIC	Adj R2	Optimize	F Stat	Critical	P-Value	Decision(α:5%)
10	47.66	-87.9	-86.18	0.8520	Yes	4.396	3.112	0.0165	Significant Lack of Fit

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC10	291.6	N/A	369.9	0.3429	0.2703	N/A
IC15	317.7	N/A	392.5	0.3148	0.2548	N/A
IC25	357.3	254.6	421.7	0.2799	0.2371	0.3927
IC50	437.9	373.2	513.8	0.2284	0.1946	0.268

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(α:5%)
A	0.4708	0.01804	0.4329	0.5087	26.1	<0.0001	Significant Parameter
C	5.405	2.762	-0.3979	11.21	1.957	0.0661	Non-Significant Parameter
D	437.9	31.93	370.8	505	13.71	<0.0001	Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Model	0.5371663	0.5371663	1	117.1	<0.0001	Significant
Lack of Fit	0.0459596	0.0114899	4	4.396	0.0165	Significant
Pure Error	0.0365924	0.0026137	14			
Residual	0.0825520	0.0045862	18			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Variances	Bartlett Equality of Variance	9.016	12.59	0.1727	Equal Variances
	Mod Levene Equality of Variance	0.7723	3.866	0.6156	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9184	0.9079	0.0805	Normal Distribution
	Anderson-Darling A2 Normality	0.6523	2.492	0.0890	Normal Distribution

Mean Dry Biomass-mg Summary — **Calculated Variate**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
1.27	Receiving Water	3	0.3731	0.284	0.444	0.04707	0.08153	21.85%	0.0%
27.7		3	0.4797	0.414	0.522	0.03329	0.05766	12.02%	-28.57%
53.8		3	0.511	0.474	0.569	0.02936	0.05086	9.95%	-36.96%
97.6		3	0.5327	0.508	0.567	0.01771	0.03067	5.76%	-42.77%
207		3	0.4483	0.375	0.491	0.03683	0.06379	14.23%	-20.17%
402		3	0.2907	0.272	0.321	0.0153	0.0265	9.12%	22.09%
763		3	0.01767	0.013	0.023	0.002905	0.005032	28.48%	95.26%

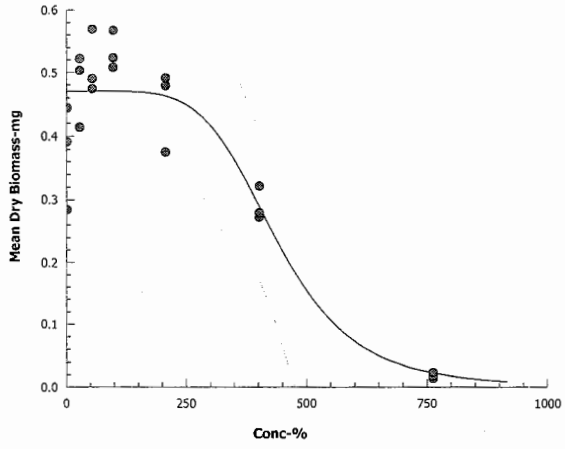
Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

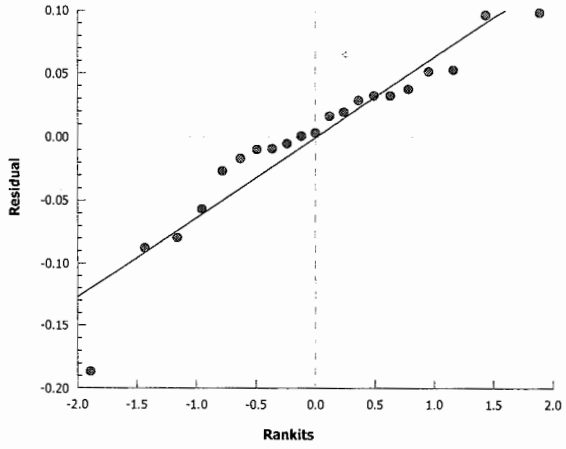
Analysis ID:	11-7236-4380	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:24	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes

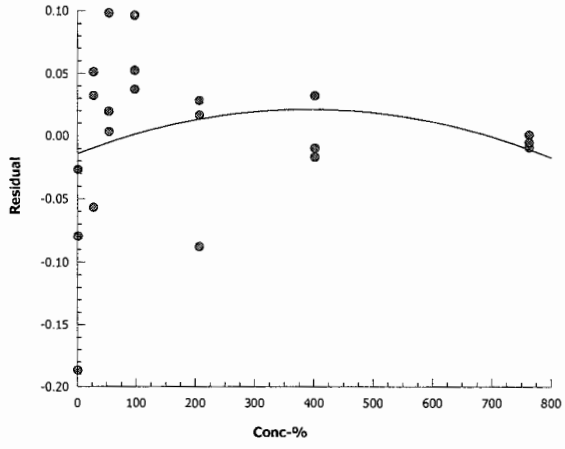
Mean Dry Biomass-mg Detail

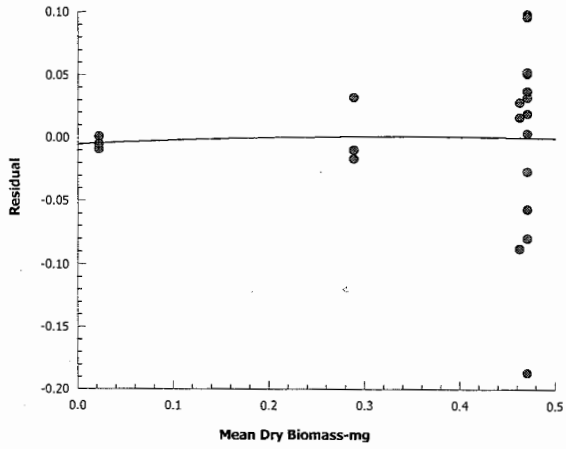
Conc-%	Control Type	Rep 1	Rep 2	Rep 3
1.27	Receiving Water	0.284	0.3913	0.444
27.7		0.503	0.522	0.414
53.8		0.474	0.49	0.569
97.6		0.523	0.567	0.508
207		0.375	0.491	0.479
402		0.272	0.321	0.279
763		0.013	0.017	0.023

Graphics 3P Log-Logistic EV [Y=A/(1+(X/D)^C)]









CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	04-3507-8521	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:23	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	20-5182-3307	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Karen Lee
Start Date:	15 Sep-11 16:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	22 Sep-11 14:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	11-0542-6896	**Code:**	11432a	**Client:**	
Sample Date:	05 Sep-11	**Material:**	Water Sample	**Project:**	
Receive Date:	09 Sep-11	**Source:**	Rescan		
Sample Age:	10d 16h	**Station:**	Moose		

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0.2143	18.42%	2.646	0.04612	443	358.2	547.8

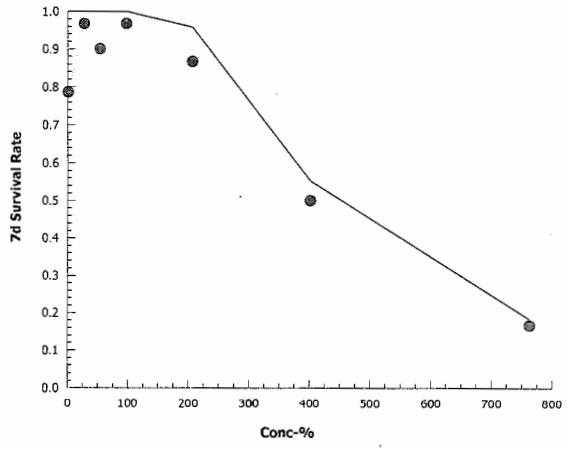
7d Survival Rate Summary — Calculated Variate(A/B)

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
1.27	Receiving Water	3	0.7917	0.7	0.875	0.05069	0.0878	11.09%	0.0%	22	28
27.7		3	0.9667	0.9	1	0.03333	0.05773	5.97%	-22.11%	29	30
53.8		3	0.9	0.8	1	0.05774	0.1	11.11%	-13.68%	27	30
97.6		3	0.9667	0.9	1	0.03333	0.05773	5.97%	-22.11%	29	30
207		3	0.8667	0.8	1	0.06667	0.1155	13.32%	-9.47%	26	30
402		3	0.5	0.5	0.5	0	0	0.0%	36.84%	15	30
763		3	0.1667	0.1	0.2	0.03333	0.05774	34.64%	78.95%	5	30

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3
1.27	Receiving Water	0.7	0.875	0.8
27.7		1	1	0.9
53.8		0.8	0.9	1
97.6		1	0.9	1
207		0.8	1	0.8
402		0.5	0.5	0.5
763		0.1	0.2	0.2

Graphics



Fathead Minnow Test Summary Sheet

(7-d *Pimephales promelas* Survival and Growth Test)

Client: Rescan (Ekati)
Work Order No.: 11432

Start Date/Time: Nov 2/11 @ 1430h
Test Species: *Pimephales promelas*

Sample Information:

Sample ID:	Lab Water
Sample Date:	n/a
Date Received:	n/a
Sample Volume:	n/a

Test Validity Criteria:

The test is invalid if :

1) for the control solutions, the combined and cumulative incidence of any mortalities, or fish showing loss of equilibrium or other signs of atypical swimming behavior, is >20%

2) the average dry weight of the surviving control fish does not attain 250 ug when the fish are dried and weighed.

WQ Ranges:

T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4; pH = 6 to 8.5

Dilution Water (initial water quality):

Type:	~~Moderately Hard~~ Synthetic Water & Deionized Water
Temperature (°C)	25.0
pH	7.4
Dissolved Oxygen (mg/L)	7.7
Hardness (mg/L $CaCO_3$)	20
Alkalinity (mg/L $CaCO_3$)	4

Test Organism Information:

Batch No.:	110211
Source:	Aquatic Biosystems
Age:	<24hr

NaCl Reference Toxicant Results:

Reference Toxicant ID:	PP63
Stock Solution ID:	n/a
Date Initiated:	Nov 2/11
7-d EC50 (95% CL):	4.3 (3.7 - 5.0)
7-d IC50 (95% CL):	3.8 (2.7 - 5.0)

Survival:

Reference Toxicant Mean and Historical Range: 4.7 (3.5 - 6.2) CV (%): 15

Biomass:

Reference Toxicant Mean and Historical Range: 4.0 (3.0 - 5.5) CV (%): 17

Test Results:

	Survival	Biomass
LC25 mg/L N (95% CL)	n/a	
LC50 mg/L N (95% CL)	161.1 (143.4 - 181.0)	
IC25 mg/L N (95% CL)		118.9 (92.83 - 133.1)
IC50 mg/L N (95% CL)		154.2 (132.3 - 167.7)

Reviewed by: _____ Date reviewed: 3/11/2012

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan / Ekati
Sample ID: Lab Water
Work Order #: 11432

Start Date & Time: 2-Nov-11 1430h
Stop Date & Time: 09-Nov-11 1100h
Test Species: *Pimephales promelas*

(mg/L) Concentration Control	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	26.0	25.0	25.0	25.5	25.0	25.0	25.0	24.6	25.0	24.5	25.0	25.0	24.5
DO (mg/L)	7.7	7.4	6.8	7.6	6.4	7.6	6.4	7.6	6.3	7.7	6.4	7.8	6.3	6.4
pH	7.4	7.3	7.2	7.3	7.1	7.0	7.0	7.3	6.9	7.2	7.1	7.2	6.8	6.9
Cond. (µS/cm)	1103	98.2		110.8		106		109		110		112		124
Initials	ARG	ARG		ARG		^		^		ARG		ARG		ARG

Concentration 50	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	24.5	25.0	24.5	24.0	25.0	25.0	25.0	25.0	24.6	24	24.5	24.5	25.0	25.0
DO (mg/L)	7.7	7.4	6.8	7.7	6.4	7.6	6.3	7.6	6.4	7.8	6.6	7.7	6.5	6.4
pH	7.3	7.3	7.1	7.3	7.0	7.0	6.9	7.3	6.8	7.1	7.1	7.2	6.8	6.8
Cond. (µS/cm)	504	506		513		463		506		515		514		557
Initials	ARG	ARG		ARG		^		^		ARG		ARG		ARG

Concentration 200	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	25.0	25.0	24.0	25.0	25.0	25.0	25.0	24.6	24.0	24.5	24.5	25.0	24.5
DO (mg/L)	7.8	7.4	6.9	7.6	6.5	7.6	6.3	7.6	6.4	7.8	6.4	7.7	6.6	6.6
pH	7.3	7.2	7.1	7.2	7.0	7.0	6.8	7.1	6.8	7.1	7.0	7.1	6.7	6.8
Cond. (µS/cm)	1662	1671		1683		1698		1743		1677		1672		1765
Initials	ARG	ARG		ARG		^		^		ARG		ARG		ARG

Concentration 800	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	25.0	25.5	24.0	25.0	25.0	25.0							
DO (mg/L)	7.7	7.5	6.6	7.6	6.5	7.6	6.2							
pH	7.2	7.2	7.0	7.1	6.9	6.9	6.8							
Cond. (µS/cm)	5860	~~5040~~ 5980 ARG		6010		5780								
Initials	ARG	ARG		ARG		^								

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control	100% (v/v)		
Hardness*		20		
Alkalinity*		4		

* mg/L as CaCO3

Analysts: _____

Reviewed by: _____

Date reviewed: _____

Sample Description: _____

Comments: _____

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan / EKati
Sample ID: MHW Control Water
Work Order #: 11432

Start Date & Time: 02-Nov-11 1430h
Stop Date & Time: 09-Nov-11 1100h
Test Species: *Pimephales promelas*

Concentration	Days													
	0	1		2		3		4		5		6		7
MHW Control	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.5	26.0	25.0	25.0	24.5	26.0	25.0	26.0	25.0	24.0	24.5	25.0	25.0	24.5
DO (mg/L)	7.8	7.6	6.4	7.7	6.6	7.4	6.8	7.4	6.4	7.6	6.7	7.7	6.4	6.6
pH	7.9	8.0	7.7	7.9	7.8	8.0	8.1	8.1	7.6	7.9	7.7	8.0	7.6	7.5
Cond. (µS/cm)	356	364	378	330	391	341	385	346	355	342	380	340	369	364
Initials	ARG	ARG		ARG		~		~		ARG		ARG		ARG

Concentration	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 pH meter: pH-1 Conductivity meter: C-1

	Control			
Hardness*				
Alkalinity*				

* mg/L as CaCO3

Analysts:

Reviewed by:

Date reviewed:

Sample Description:

Comments:

7-d Fathead Minnow Toxicity Test
Daily Survival

Client: Rescan /EKati
Sample ID: Lab Water
Work Order #: 11432

Start Date & Time: 02-Nov-11 1430h
Stop Date: 09-Nov-11 1100h
Test Species: *Pimephales promelas*

Concentration (mg/L)	Rep	Day of Test - No. of Survivors							Comments
		1	2	3	4	5	6	7	
Control	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
50	A	10	10	10	10	10	10	10	
	B	9	9	9	9	9	9	9	
	C	10	10	10	10	10	10	10	
100	A	10	9	9	8	9	9	9	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
200	A	10	10	10	6	2	2	2	
	B	10	10	10	6	3	3	3	
	C	10	10	10	3	2	2	2	
400	A	10	8	0					
	B	10	9	1	0				
	C	10	9	0					
800	A	8	4	0					
	B	8	3	0					
	C	9	3	0					
MHW CONT	A	10	9	9	9	9	9	9	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
	A								
	B								
	C								
	A								
	B								
	C								
	A								
	B								
	C								
Tech Initials		ARG	ARG	[illegible]	~	ARG	ARG	ARG	

Legend:
1- Fish dying
2- Fish showing loss of equilibrium
3- Fish showing atypical swimming

Comments: _____

Reviewed by: _____ **Date reviewed:** _____

Fathead Minnow Toxicity Test Data Sheet

Dry Weight Data

Client: Rescan / EKati

Start Date: 02-Nov-11

Sample ID: Lab Water

Termination Date: 09-Nov-11

Work Order No.: 11432

(mg/L)

Sample ID	Rep	Pan No. blue	No. alive	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	A	1	10	ARG	1311.85	1319.32	10	ARG
	B	2	10	ARG	1315.20	1321.28	10	ARG
	C	3	10	ARG	1319.87	1325.54	10	ARG
50	A	4	10	ARG	1313.41	1319.42	10	ARG
	B	5	9	ARG	1314.10	1319.63	9	ARG
	C	6	10	ARG	1315.38	1322.42	10	ARG
100	A	7	9	ARG	1314.79	1320.62	9	ARG
	B	8	10	ARG	1303.95	1309.89	10	ARG
	C	9	10	ARG	1318.42	1324.57	10	ARG
200	A	10	2	ARG	1319.14	1320.61	2	ARG
	B	11	3	ARG	1321.37	1322.99	3	ARG
	C	12	2	ARG	1320.80	1322.49	2	ARG
400	A	13	—	ARG	1321.79	—	—	ARG
	B	14	—	ARG	1295.27	—	—	ARG
	C	15	—	ARG	1317.67	—	—	ARG
800	A	16	—	ARG	1303.85	—	—	ARG
	B	17	—	ARG	1309.47	—	—	ARG
	C	18	—	ARG	1325.26	—	—	ARG

Comments: Reweighed pans 4 (1319.36mg) and 8 (1309.86mg)

Reviewed by: _____ Date Reviewed: _____

Generated: March 17, 2009

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	07-8252-3581	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	28 Nov-11 14:47	**Analysis:**	Trimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	04-8433-1202	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-11 14:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	09 Nov-11 11:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 21h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	04-9722-5161	**Code:**	1DA30DC9	**Client:**	Rescan
Sample Date:	02 Nov-11	**Material:**	Water Sample	**Project:**	
Receive Date:	02 Nov-11	**Source:**	Rescan		
Sample Age:	14h	**Station:**	Lab Water		

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	3.33%	2.207	0.02526	161.1	143.4	181

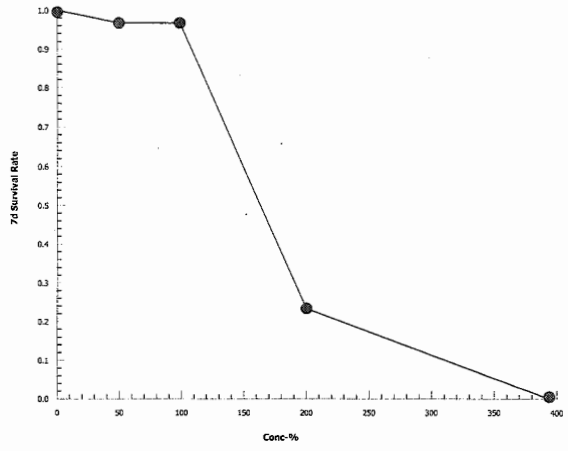
7d Survival Rate Summary — **Calculated Variate(A/B)**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0.0185	Dilution Water	3	1	1	1	0	0	0.0%	0.0%	30	30
49.6		3	0.9667	0.9	1	0.03333	0.05773	5.97%	3.33%	29	30
98.4		3	0.9667	0.9	1	0.03333	0.05773	5.97%	3.33%	29	30
200		3	0.2333	0.2	0.3	0.03333	0.05774	24.74%	76.67%	7	30
394		3	0	0	0	0	0		100.0%	0	30

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3
0.0185	Dilution Water	1	1	1
49.6		1	0.9	1
98.4		0.9	1	1
200		0.2	0.3	0.2
394		0	0	0

Graphics



CETIS Analytical Report

Test Code: 1432 ~~8FB1DB1~~ | 01-5067-4865

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	05-9744-0423	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	28 Nov-11 14:47	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes
Batch ID:	04-8433-1202	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	02 Nov-11 14:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	09 Nov-11 11:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 21h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	04-9722-5161	**Code:**	1DA30DC9	**Client:**	Rescan
Sample Date:	02 Nov-11	**Material:**	Water Sample	**Project:**	
Receive Date:	02 Nov-11	**Source:**	Rescan		
Sample Age:	14h	**Station:**	Lab Water		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	739122670	200	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	69.26	N/A	140.8	1.444	0.7101	N/A
IC10	101.8	N/A	116	0.9826	0.8624	N/A
IC15	107.2	N/A	121.4	0.9328	0.8235	N/A
IC20	112.9	86.42	127.1	0.8856	0.7865	1.157
IC25	118.9	92.83	133.1	0.8408	0.7512	1.077
IC40	139	114.9	153	0.7196	0.6537	0.8703
IC50	154.2	132.3	167.7	0.6487	0.5962	0.7559

Mean Dry Biomass-mg Summary — **Calculated Variate**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0.0185	Dilution Water	3	0.6407	0.567	0.747	0.05447	0.09434	14.72%	0.0%
49.6		3	0.6193	0.553	0.704	0.04454	0.07715	12.46%	3.33%
98.4		3	0.5973	0.583	0.615	0.009384	0.01625	2.72%	6.77%
200		3	0.1593	0.147	0.169	0.006489	0.01124	7.05%	75.13%
394		3	0	0	0	0	0		100.0%

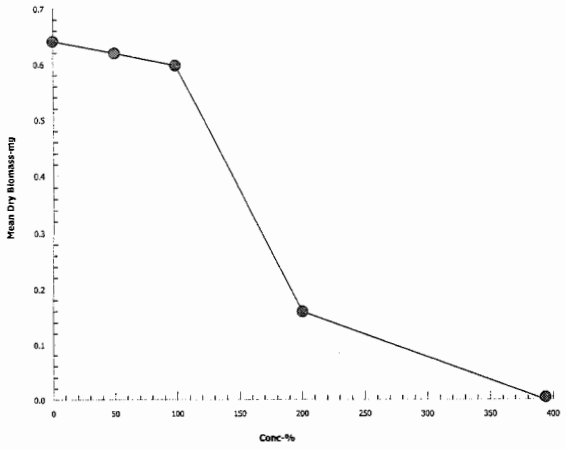
Mean Dry Biomass-mg Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3
0.0185	Dilution Water	0.747	0.608	0.567
49.6		0.601	0.553	0.704
98.4		0.583	0.594	0.615
200		0.147	0.162	0.169
394		0	0	0

Fathead Minnow 7-d Larval Survival and Growth Test **Nautilus Environmental**

Analysis ID:	05-9744-0423	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	28 Nov-11 14:47	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Fathead Minnow Test Summary Sheet

(7-d *Pimephales promelas* Survival and Growth Test)

Client: Rescan (Ekati)
Work Order No.: 11432

Start Date/Time: Nov 2/11 @ 1430h
Test Species: *Pimephales promelas*

Sample Information:

Sample ID:	Slipper-Blend Water
Sample Date:	n/a
Date Received:	n/a
Sample Volume:	n/a

Test Validity Criteria:

The test is invalid if :

1) for the control solutions, the combined and cumulative incidence of any mortalities, or fish showing loss of equilibrium or other signs of atypical swimming behavior, is >20%

2) the average dry weight of the surviving control fish does not attain 250 ug when the fish are dried and weighed.

WQ Ranges:

T (°C) = 25 ± 1; DO (mg/L) = 3.3 to 8.4; pH = 6 to 8.5

Dilution Water (initial water quality):

Type:	Deionized Water
Temperature (°C)	25.5
pH	7.1
Dissolved Oxygen (mg/L)	7.6
Hardness (mg/L $CaCO_3$)	22
Alkalinity (mg/L $CaCO_3$)	12

Test Organism Information:

Batch No.:	110211
Source:	Aquatic Biosystems
Age:	<24hr

NaCl Reference Toxicant Results:

Reference Toxicant ID:	PP63
Stock Soiution ID:	n/a
Date Initiated:	Nov 2/11
7-d EC50 (95% CL):	4.3 (3.7 - 5.0)
7-d IC50 (95% CL):	3.8 (2.7 - 5.0)

Survival:

Reference Toxicant Mean and Historical Range: 4.7 (3.5 - 6.2) CV (%): 15

Biomass:

Reference Toxicant Mean and Historical Range: 4.0 (3.0 - 5.5) CV (%): 17

Test Results:

	Survival	Biomass
LC25 mg/L N (95% CL)	n/a	
LC50 mg/L N (95% CL)	452.9 (405.5 - 505.9)	
IC25 mg/L N (95% CL)		390.0 (n/a - n/a)
IC50 mg/L N (95% CL)		421.2 (n/a - n/a)

Reviewed by:

Date reviewed: 31/1/2012

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan / Elkati
Sample ID: Slipper-blend Water
Work Order #: 11432
Start Date & Time: 2-Nov-11 1430h
Stop Date & Time: 09-Nov-11 1100h
Test Species: *Pimephales promelas*

(mg/L) Concentration Control	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.5	24.5	25.0	24.0	25.5	25.0	25.0	25.0	25.0	26.0	25.0	25.5	24.5	24.5
DO (mg/L)	7.6	7.7	~~8.66~~ ARG	7.8	6.5	7.6	6.2	7.7	6.4	7.6	6.5	7.5	6.3	6.3
pH	7.1	6.8	6.7	7.0	6.8	7.0	7.1	7.2	6.9	7.2	6.9	7.1	6.9	6.9
Cond. (µS/cm)	119.7	107.9		115.8		~~1096~~		95		91		94		104
Initials	ARG	ARG		ARG		~		~		ARG		ARG		ARG

Concentration 50	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	24.0	25.0	25.0	25.0	25.0	25.0	24.0	24.5	25.0	25.0	24.5
DO (mg/L)	7.6	7.8	6.7	7.8	6.6	7.6	6.1	7.7	6.3	7.6	6.5	7.6	6.3	6.5
pH	7.1	6.8	6.7	6.9	6.7	7.0	7.1	7.2	6.8	7.3	6.8	7.1	6.9	6.8
Cond. (µS/cm)	526	509		522		482		538		506		503		531
Initials	ARG	ARG		ARG		~		~		ARG		ARG		ARG

Concentration 200	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.5	24.5	24.0	25.0	25.0	25.0	25.0	25.0	24.0	25.0	25.0	24.5	24.5
DO (mg/L)	7.4	7.7	6.8	7.8	6.8	7.6	6.1	7.7	6.5	7.7	6.7	7.7	6.4	6.3
pH	7.0	6.8	6.7	6.9	6.7	7.0	7.1	7.2	6.8	7.2	6.8	7.2	6.9	6.8
Cond. (µS/cm)	1662	1657		1668		1587		1465		1704		1684		1793
Initials	ARG	ARG		ARG		~		~		ARG		ARG		ARG

Concentration 800	Days 0	1		2		3		4		5		6		7
	init.	new	old	new	old	new	old	new	old	new	old	new	old	final
Temperature (°C)	25.0	24.0	25.0	24.0	24.5	25.0	25.0	25.0	25.0		~~25.0~~ ARG			
DO (mg/L)	7.7	7.8	7.0	7.7	6.9	7.6	6.1	7.7	6.4					
pH	7.0	6.7	6.6	6.8	6.6	6.9	6.8	7.1	6.7					
Cond. (µS/cm)	5810	5970		5990		5610		5700						
Initials	ARG	ARG		ARG		~		~						

DO meter: DO-1 **pH meter:** pH-1 **Conductivity meter:** C-1

	Control	100% (v/v)		
Hardness*		22		
Alkalinity*		12		

* mg/L as CaCO3

Analysts:

Reviewed by:

Date reviewed:

Sample Description:

Comments:

7-d Fathead Minnow Toxicity Test
Daily Survival

Client: Rescan /EKati
Sample ID: Slipper-blend Water
Work Order #: 11432

Start Date & Time: 02-Nov-11 1430h
Stop Date: 09-Nov-11
Test Species: *Pimephales promelas*

Concentration (mg/L)	Rep	Day of Test - No. of Survivors							Comments
		1	2	3	4	5	6	7	
Control	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
50	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	~~9~~ 10 ARG	10	10	
100	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	9	9	9	
200	A	10	10	10	10	10	10	10	
	B	10	10	10	10	10	10	10	
	C	10	10	10	10	10	10	10	
400	A	10	10	10	10	10	10	8	
	B	10	10	10	10	10	9	7	
	C	10	10	10	10	10	10	~~8~~ 7 ARG	
800	A	10	8	2	1	0	—	—	
	B	9	6	0	—	—	—	—	
	C	8	6	2	0	—	—	—	
	A								
	B								
	C								
	A								
	B								
	C								
	A								
	B								
	C								
	A								
	B								
	C								
Tech Initials		ARG	ARG	~~a~~	~~m~~	ARG	ARG	ARG	

Legend:
1- Fish dying
2- Fish showing loss of equilibrium
3- Fish showing atypical swimming

Comments: _____

Reviewed by: _____ **Date reviewed:** _____

Fathead Minnow Toxicity Test Data Sheet

Dry Weight Data

Client: **Rescan** Elkati

Start Date: 02-Nov-11

Sample ID: **Slipper-blend Water**

Termination Date: 09-Nov-11

Work Order No.: 11432

(mg/L)

Sample ID	Rep	Pan No.	No. alive	Initials	Pan weight (mg)	Pan + organism (mg)	No. weighed	Initials
Control	A	19	10	ARG	1301.39	1309.13	10	ARG
	B	20	10	ARG	1306.88	1313.29	10	ARG
	C	21	10	ARG	1319.93	1326.13	10	ARG
50	A	~~22~~ 23	10	ARG	1305.50	1311.32	10	ARG
	B	~~23~~ 24	10	ARG	1308.87	1315.38	10	ARG
	C	24 ~~25~~	10	ARG	1307.48	1313.17	10	ARG
100	A	25 ~~26~~	10	ARG	1307.75	1313.77	10	ARG
	B	26 ~~27~~	10	ARG	1312.65	1319.92	10	ARG
	C	27 ~~28~~	9	ARG	1314.75	1320.49	9	ARG
200	A	~~28~~ 29	10	ARG	1319.11	1324.67	10	ARG
	B	29 ~~30~~	10	ARG	1326.87	1333.56	10	ARG
	C	30 ~~31~~	10	ARG	1316.81	1323.67	10	ARG
400	A	31 ~~32~~	8	ARG	1306.61	1310.96	8	ARG
	B	32 ~~33~~	7	ARG	1313.32	1317.81	7	ARG
	C	33 ~~34~~	~~8~~ 7 ARG	ARG	1301.62	1306.01	7	ARG
800	A	34 ~~35~~	—	ARG	1316.27	—	—	ARG
	B	35 ~~36~~	—	ARG	1312.02	—	—	ARG
	C	36 ~~37~~	—	ARG	1305.89	—	—	ARG
~~Lab~~ MHW Control	A	37	9	ARG	1318.03	1324.63	9	ARG
	B	38	10	ARG	1322.92	1327.65	10	ARG
	C	39	10	ARG	1307.82	1313.76	10	ARG

Comments: Reweighed pans 22 (1311.23mg) and 39 (1313.68mg)

Reviewed by: _____

Date Reviewed: _____

Generated: March 17, 2009

CETIS Analytical Report

Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

Analysis ID:	12-5595-6871	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.0
Analyzed:	28 Nov-11 14:42	**Analysis:**	Untrimmed Spearman-Kärber	**Official Results:**	Yes
Batch ID:	20-1855-2268	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Karen Lee
Start Date:	02 Nov-11 14:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	09 Nov-11 11:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 21h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	17-5308-8334	**Code:**	687E014E	**Client:**	
Sample Date:	02 Nov-11	**Material:**	Water Sample	**Project:**	
Receive Date:	02 Nov-11	**Source:**	Rescan		
Sample Age:	14h	**Station:**	Slipper-Blend Water		

Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	EC50	95% LCL	95% UCL
Control Threshold	0	0.00%	2.656	0.02402	452.9	405.5	505.9

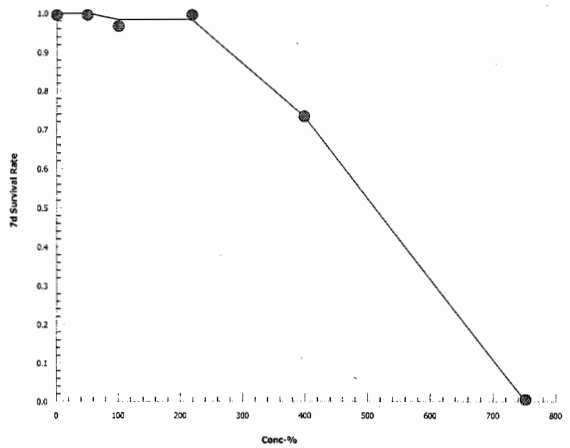
7d Survival Rate Summary — **Calculated Variate(A/B)**

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0.011	Dilution Water	3	1	1	1	0	0	0.0%	0.0%	30	30
49.7		3	1	1	1	0	0	0.0%	0.0%	30	30
99.9		3	0.9667	0.9	1	0.03333	0.05773	5.97%	3.33%	29	30
218		3	1	1	1	0	0	0.0%	0.0%	30	30
398		3	0.7333	0.7	0.8	0.03333	0.05774	7.87%	26.67%	22	30
752		3	0	0	0	0	0		100.0%	0	30

7d Survival Rate Detail

Conc-%	Control Type	Rep 1	Rep 2	Rep 3
0.011	Dilution Water	1	1	1
49.7		1	1	1
99.9		1	1	0.9
218		1	1	1
398		0.8	0.7	0.7
752		0	0	0

Graphics



Fathead Minnow 7-d Larval Survival and Growth Test

Nautilus Environmental

Analysis ID:	02-0594-3193	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:31	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes
Batch ID:	20-1855-2268	**Test Type:**	Growth-Survival (7d)	**Analyst:**	Karen Lee
Start Date:	02 Nov-11 14:30	**Protocol:**	EC/EPS 1/RM/22	**Diluent:**	Mod-Hard Synthetic Water
Ending Date:	09 Nov-11 11:00	**Species:**	Pimephales promelas	**Brine:**	
Duration:	6d 21h	**Source:**	Aquatic Biosystems, CO	**Age:**	
Sample ID:	17-5308-8334	**Code:**	11432f	**Client:**	
Sample Date:	02 Nov-11	**Material:**	Water Sample	**Project:**	
Receive Date:	02 Nov-11	**Source:**	Rescan		
Sample Age:	14h	**Station:**	Slipper-Blend Water		

Non-Linear Regression Options

Model Function	X Transform	Y Transform	Weighting Function	PTBS Function
3P Log-Logistic EV [Y=A/(1+(X/D)^C)]	None	None	Normal [W=1]	Off [Y*=Y]

Regression Summary

Iters	Log LL	AICc	BIC	Adj R2	Optimize	F Stat	Critical	P-Value	Decision(α:5%)
44	43.92	-80.13	-79.17	0.9451	Yes	0.8838	3.49	0.4770	Non-Significant Lack of Fit

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC10	361	N/A	N/A	0.277	N/A	N/A
IC15	372.9	N/A	N/A	0.2681	N/A	N/A
IC25	390	N/A	N/A	0.2564	N/A	N/A
IC50	421.2	N/A	N/A	0.2374	N/A	N/A

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(α:5%)
A	0.6376	0.0169	0.6016	0.6736	37.73	<0.0001	Significant Parameter
C	14.24	306.3	-638.7	667.2	0.04649	0.9635	Non-Significant Parameter
D	421.2	513.6	-673.6	1516	0.8201	0.4250	Non-Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Model	0.9875581	0.9875581	1	294.5	<0.0001	Significant
Lack of Fit	0.0091024	0.0030341	3	0.8838	0.4770	Non-Significant
Pure Error	0.0411959	0.003433	12			
Residual	0.0502984	0.0033532	15			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Variances	Mod Levene Equality of Variance	0.8245	4.387	0.5746	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9262	0.8965	0.1663	Normal Distribution
	Anderson-Darling A2 Normality	0.6419	2.492	0.0946	Normal Distribution

Mean Dry Biomass-mg Summary

Calculated Variate

Conc-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect
0.011	Dilution Water	3	0.6783	0.62	0.774	0.04822	0.08351	12.31%	0.0%
49.7		3	0.6007	0.569	0.651	0.02544	0.04407	7.34%	11.45%
99.9		3	0.6343	0.574	0.727	0.04703	0.08146	12.84%	6.49%
218		3	0.637	0.556	0.686	0.04079	0.07066	11.09%	6.09%
398		3	0.441	0.435	0.449	0.004167	0.007218	1.64%	34.99%
752		3	0	0	0	0	0		100.0%

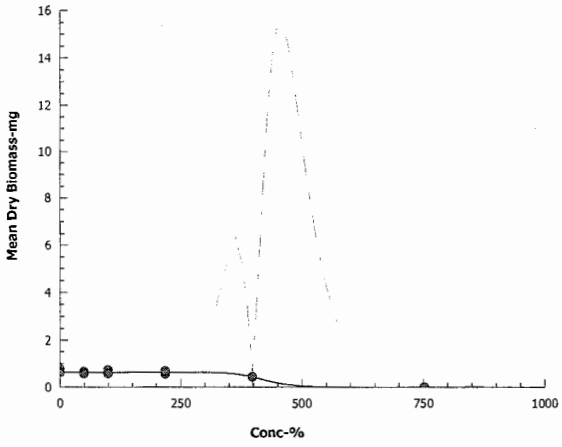
Fathead Minnow 7-d Larval Survival and Growth Test — **Nautilus Environmental**

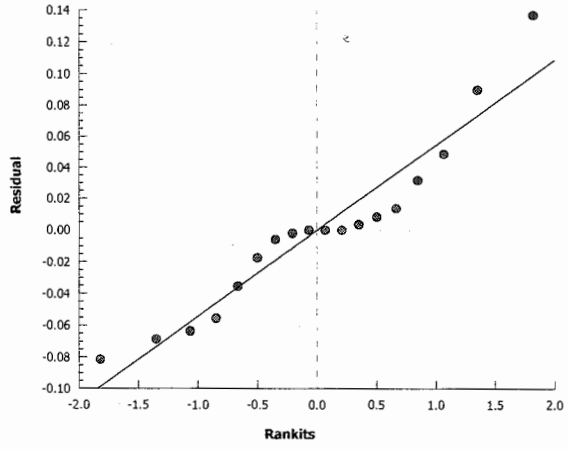
Analysis ID:	02-0594-3193	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.0
Analyzed:	30 Jan-12 16:31	**Analysis:**	Nonlinear Regression	**Official Results:**	Yes

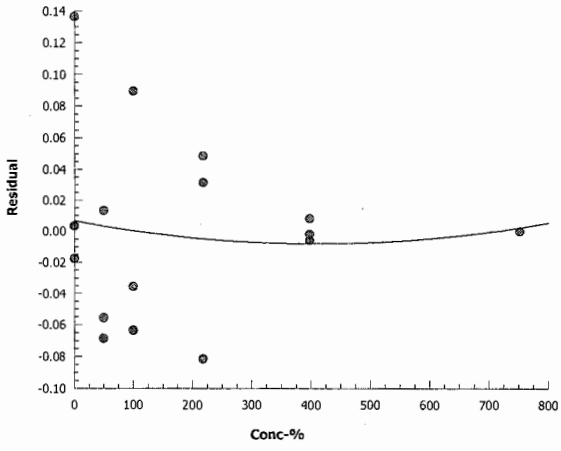
Mean Dry Biomass-mg Detail

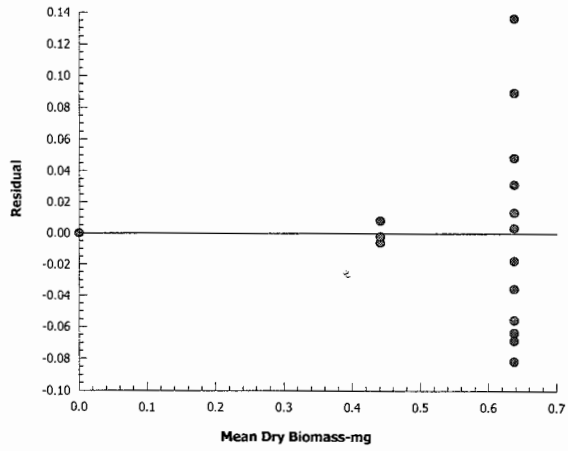
Conc-%	Control Type	Rep 1	Rep 2	Rep 3
0.011	Dilution Water	0.774	0.641	0.62
49.7		0.582	0.651	0.569
99.9		0.602	0.727	0.574
218		0.556	0.669	0.686
398		0.435	0.449	0.439
752		0	0	0

Graphics 3P Log-Logistic EV [Y=A/(1+(X/D)^C)]









Client: Rescan

W.O.#: 11432

Hardness and Alkalinity Datasheet

	Alkalinity						Hardness			
Sample ID	Sample Date	Sample Volume (mL)	(mL) 0.02N HCL/H_2SO_4 used to pH 4.5	(mL) of 0.02N HCL/H_2SO_4 used to pH 4.2	Total Alkalinity ($mg/LCaCO_3$)		Sample Volume (mL)	Volume of 0.01M EDTA Used (mL)	Total Hardness ($mg/L\ CaCO_3$)	Technician
Slippers	Nov 2/11	50	0.3	0.4	4		50	1.0	20	ARG
Lab	Nov 2/11	50	0.7	0.8	12		50	1.1	22	ARG

Notes: _____

Reviewed by: _____ Date Reviewed: _____

NAUTILUS ENVIRONMENTAL
ATTN: Karen
8664 Commerce Court
Imperial Square Lake City
Burnaby BC V5A 4N7

Date Received: 15-SEP-11
Report Date: 21-SEP-11 16:43 (MT)
Version: FINAL

Client Phone: 604-420-8773

Certificate of Analysis

Lab Work Order #: L1059320

Project P.O. #: 0518
Job Reference:
C of C Numbers: 1, 2, 3, 4
Legal Site Desc:

Can Dang
Senior Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

NAUTILUS ENVIRONMENTAL
ATTN: Karen
8664 Commerce Court
Imperial Square Lake City
Burnaby BC V5A 4N7

Date Received: 03-NOV-11
Report Date: 14-NOV-11 16:32 (MT)
Version: FINAL

Client Phone: 604-420-8773

Certificate of Analysis

Lab Work Order #: L1080881

Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers: 1, 2
Legal Site Desc:

Can Dang
Senior Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1080881-1	L1080881-2	L1080881-3	L1080881-4	L1080881-5
	Description	WATER	WATER	WATER	WATER	WATER
	Sampled Date	02-NOV-11	02-NOV-11	02-NOV-11	02-NOV-11	02-NOV-11
	Sampled Time					
	Client ID	MHW CONTROL-NO3	LAB CONTROL-NO3	LAB 50-NO3	LAB 100-NO3	LAB 200-NO3
Grouping	**Analyte**					
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	0.0548	0.0185	49.6	98.4	200

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1080881-6	L1080881-7	L1080881-8	L1080881-9	L1080881-10
	Description	WATER	WATER	WATER	WATER	WATER
	Sampled Date	02-NOV-11	02-NOV-11	02-NOV-11	02-NOV-11	02-NOV-11
	Sampled Time					
	Client ID	LAB 400-NO3	LAB 800-NO3	SLIPPER CONTROL-NO3	SLIPPER 50-NO3	SLIPPER 100-NO3
Grouping	**Analyte**					
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	394	745	0.011	49.7	99.9

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1080881-11	L1080881-12	L1080881-13		
	Description	WATER	WATER	WATER		
	Sampled Date	02-NOV-11	02-NOV-11	02-NOV-11		
	Sampled Time					
	Client ID	SLIPPER 200-NO3	SLIPPER 400-NO3	SLIPPER 800-NO3		
Grouping	**Analyte**					
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	218	398	752		

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

1 2

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Nautil

TESTING LOCATION (Please Circle)

1

British Columbia
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773

Chain of Custody

LIO80881

Date NOV3/11 Page 1 of 2

Sample Collection By:

Report to:		Invoice To:	
Company	1	Company	2
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	karen@nautilusenvironmental.com	Email	karen@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: (Nitrate) NO_3-N	Receipt Temperature (°C)
1	MHW Control - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
2	Lab Control - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
3	Lab 50 - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
4	Lab 100 - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
5	Lab 200 - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
6	Lab 400 - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
7	Lab 800 - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
8									
9									
10									

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:		Total No. of Containers	
PO No.:		Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: 7 day FHM chronic nitrate test with lab water-Day 0. Samples not preserved.

RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
(Signature)	(Time) 1700h	(Signature)	(Time)
(Printed Name) Karen Lee	(Date) NOV3/11	(Printed Name)	(Date)
(Company) Nautilus Environmental		(Company)	

RECEIVED BY (COURIER)		RECEIVED BY (LABORATORY)	
(Signature)	(Time)	(Signature) BP 19:C	(Time) 15:25
(Printed Name)	(Date)	(Printed Name)	(Date) NOV.3
(Company)		(Company)	

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

TESTING LOCATION (Please Circle)

(1)

British Columbia
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773

Chain of Custody

L1080881

Date Nov3/11 Page 2 of 2

Sample Collection By:

Report to: (1)		Invoice To: (1)	
Company		Company	
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	karen@nautilusenvironmental.com	Email	karen@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: (Nitrate) NO_3-N	Receipt Temperature (°C)
1	Slipper Control - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
2	Slipper 50 - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
3	Slipper 100 - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
4	Slipper 200 - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
5	Slipper 400 - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
6	Slipper 800 - NO_3	02-Nov-11			125ml Bottle	1	FHM Day 0	x	
7									
8									
9									
10									

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:		Total No. of Containers	
PO No.:		Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: 7 day FHM chronic nitrate test with Slipper-blend water- Day 0. Samples not preserved.

RELINQUISHED BY (CLIENT)	RELINQUISHED BY (COURIER)
(Signature) Karen (Time) 1700h	(Signature) (Time)
(Printed Name) Karen Lee (Date) Nov3/11	(Printed Name) (Date)
(Company) Nautilus Environmental	(Company)
RECEIVED BY (COURIER)	**RECEIVED BY (LABORATORY)**
(Signature) (Time)	(Signature) (Time)
(Printed Name) (Date)	(Printed Name) (Date)
(Company)	(Company)

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID Description Sampled Date Sampled Time Client ID	L1059320-1 WATER 15-SEP-11 NEMA CONTROL	L1059320-2 WATER 15-SEP-11 NEMA 25 - NO3	L1059320-3 WATER 15-SEP-11 NEMA 50 - NO3	L1059320-4 WATER 15-SEP-11 NEMA 100 - NO3	L1059320-5 WATER 15-SEP-11 NEMA 200 - NO3
WATER							
Anions and Nutrients	Nitrate (as N) (mg/L)		803	22.1	56.1	98.6	207

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1059320-6 WATER 15-SEP-11 NEMA 400 - NO3	L1059320-7 WATER 15-SEP-11 NEMA 800 - NO3	L1059320-8 WATER 15-SEP-11 LAB CONTROL	L1059320-9 WATER 15-SEP-11 SLIPPER CONTROL	L1059320-10 WATER 15-SEP-11 SLIPPER 12.5-NO3
Sample ID		L1059320-6	L1059320-7	L1059320-8	L1059320-9	L1059320-10
Description		WATER	WATER	WATER	WATER	WATER
Sampled Date		15-SEP-11	15-SEP-11	15-SEP-11	15-SEP-11	15-SEP-11
Sampled Time						
Client ID		NEMA 400 - NO3	NEMA 800 - NO3	LAB CONTROL	SLIPPER CONTROL	SLIPPER 12.5-NO3
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	452	0.407	0.102	0.0169	12.1

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID Description Sampled Date Sampled Time Client ID	L1059320-11 WATER 15-SEP-11 SLIPPER 25- NO3	L1059320-12 WATER 15-SEP-11 SLIPPER 50- NO3	L1059320-13 WATER 15-SEP-11 SLIPPER 100- NO3	L1059320-14 WATER 15-SEP-11 SLIPPER 200- NO3	L1059320-15 WATER 15-SEP-11 SLIPPER 400- NO3
WATER							
Anions and Nutrients	Nitrate (as N) (mg/L)		24.1	49.3	94.3	199	413

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	Sample ID Description Sampled Date Sampled Time Client ID	L1059320-16 WATER 15-SEP-11 MOOSE CONTROL	L1059320-17 WATER 15-SEP-11 MOOSE 25 - NO3	L1059320-18 WATER 15-SEP-11 MOOSE 50 - NO3	L1059320-19 WATER 15-SEP-11 MOOSE 100 - NO3	L1059320-20 WATER 15-SEP-11 MOOSE 200 - NO3
WATER							
Anions and Nutrients	Nitrate (as N) (mg/L)		1.27	27.7	53.8	97.6	207

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1059320-21 WATER 15-SEP-11 MOOSE 400 - NO3	L1059320-22 WATER 15-SEP-11 MOOSE 800 - NO3	L1059320-23 WATER 15-SEP-11 LESLIE CONTROL	L1059320-24 WATER 15-SEP-11 LESLIE 25 - NO3	L1059320-25 WATER 15-SEP-11 LESLIE 50 - NO3
Sample ID		L1059320-21	L1059320-22	L1059320-23	L1059320-24	L1059320-25
Description		WATER	WATER	WATER	WATER	WATER
Sampled Date		15-SEP-11	15-SEP-11	15-SEP-11	15-SEP-11	15-SEP-11
Sampled Time						
Client ID		MOOSE 400 - NO3	MOOSE 800 - NO3	LESLIE CONTROL	LESLIE 25 - NO3	LESLIE 50 - NO3
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	402	763	2.73	25.8	47.7

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1059320-26 WATER 15-SEP-11 LESLIE 100 - NO3	L1059320-27 WATER 15-SEP-11 LESLIE 200 - NO3	L1059320-28 WATER 15-SEP-11 LESLIE 400 - NO3	L1059320-29 WATER 15-SEP-11 LESLIE 800 - NO3	
Sample ID						
Description						
Sampled Date						
Sampled Time						
Client ID						
WATER						
Anions and Nutrients	Nitrate (as N) (mg/L)	80.4	202	394	770	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Reference Information

QC Samples with Qualifiers & Comments:

QC Type Description	Parameter	Qualifier	Applies to Sample Number(s)
Duplicate	Nitrate (as N)	DLM	L1059320-1, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -2, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -3, -4, -5, -6, -7, -8, -9

Qualifiers for Individual Parameters Listed:

Qualifier	Description
DLM	Detection Limit Adjusted For Sample Matrix Effects

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

1 2 3 4

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Nautilus Environmental

TESTING LOCATION (Please C

Chain of Custody

L1059320-COFC 5A 4N3

L1059320

Date Sept 15/11 Page 1 of 4

Sample Collection By:

Report to:		Invoice To:	
Company	(1)	Company	(1)
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	karen@nautilusenvironmental.com	Email	karen@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: (Nitrate) NO_3-N	Receipt Temperature (°C)
1	Nema Control	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
2	Nema 25 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
3	Nema 50 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
4	Nema 100 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
5	Nema 200 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
6	Nema 400 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
7	Nema 800 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
8									
9									
10									

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:	EKATI	Total No. of Containers	
PO No.:	0518	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: 7 day FHM chronic nitrate test with site water-Day 0. Samples not preserved.

RELINQUISHED BY (CLIENT)

(Signature) K Lee (Time) 1800

(Printed Name) Karen Lee (Date) Sept 15/11

(Company) Nautilus Environmental

RELINQUISHED BY (COURIER)

(Signature) (Time)

(Printed Name) (Date)

(Company)

RECEIVED BY (COURIER)

(Signature) (Time)

(Printed Name) (Date)

(Company)

RECEIVED BY (LABORATORY)

(Signature) (Time) 15:15

(Printed Name) RYAN (Date) SEP 15

(Company) ALS

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

Nautilus Environmental

TESTING LOCATION

L1059320-COFC

a, Canada V5A 4N3

Chain of Custody

L1059320

Date Sept 15/11 Page 2 of 4

Sample Collection By:

Report to:		Invoice To:	
Company	(1)	Company	(1)
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	karen@nautilusenvironmental.com	Email	karen@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: (Nitrate) NO_3-N	Receipt Temperature (°C)
1	Lab Control	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
2	Slipper Control	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
3	Slipper 12.5 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
4	Slipper 25 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
5	Slipper 50 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
6	Slipper 100 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
7	Slipper 200 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
8	Slipper 400 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
9									
10									

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:	ERMI	Total No. of Containers	
PO No.:	0518	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: 7 day FHM chronic nitrate test with site water- Day 0. Samples not preserved.

RELINQUISHED BY (CLIENT)	RELINQUISHED BY (COURIER)
(Signature) (Time): 1800	(Signature) (Time):
(Printed Name) (Date): Karen Lee Sept 15/11	(Printed Name) (Date):
(Company): Nautilus Environmental	(Company):
RECEIVED BY (COURIER)	**RECEIVED BY (LABORATORY)**
(Signature) (Time):	(Signature) (Time): 15:11
(Printed Name) (Date):	(Printed Name) (Date): RYAN Sept 15
(Company):	(Company): ACS 20°C

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

Nautilus Environmental

TESTING LOCATION (Please Circle)

Chain of Custody

L1059320

V5A 4N3

Date Sept 15/11 Page 3 of 4

Sample Collection By:

Report to:		Invoice To:	
Company	(1)	Company	(1)
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	karen@nautilusenvironmental.com	Email	karen@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: (Nitrate) NO_3-N	Receipt Temperature (°C)
1	Moose Control	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
2	Moose 25 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
3	Moose 50 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
4	Moose 100 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
5	Moose 200 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
6	Moose 400 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
7	Moose 800 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
8									
9									
10									

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:	EEATT	Total No. of Containers	
PO No.:	0578	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: 7 day FHM chronic nitrate test with site water-Day 0. Samples not preserved.

RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
(Signature)	(Time) 1800	(Signature)	(Time)
(Printed Name) Karen Lee	(Date) Sept 15/11	(Printed Name)	(Date)
(Company) Nautilus Environmental		(Company)	

RECEIVED BY (COURIER)		RECEIVED BY (LABORATORY)	
(Signature)	(Time)	(Signature)	(Time) 15:15
(Printed Name)	(Date)	(Printed Name) RYAN	(Date) SEPT 15
(Company)		(Company) ALS	

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

Nautilus Environmental

TESTING LOCATION (Please Circle)

Chain of Custody

L1059320

13

Date Sept 15/11 Page 4 of 4

Sample Collection By:

Report to:		Invoice To:	
Company	(1)	Company	(1)
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	karen@nautilusenvironmental.com	Email	karen@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: (Nitrate) NO_3-N	Receipt Temperature (°C)
1	Leslie Control	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
2	Leslie 25 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
3	Leslie 50 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
4	Leslie 100 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
5	Leslie 200 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
6	Leslie 400 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
7	Leslie 800 - NO_3	15-Sep-11			125ml Bottle	1	FHM Day 0	x	
8									
9									
10									

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:	EXATI	Total No. of Containers	
PO No.:	0578	Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: 7 day FHM chronic nitrate test with site water-Day 0. Samples not preserved.

RELINQUISHED BY (CLIENT)

(Signature) (Time): 1800

(Printed Name) (Date): Karen Lee Sept 15/11

(Company): Nautilus Environmental

RELINQUISHED BY (COURIER)

(Signature) (Time):

(Printed Name) (Date):

(Company):

RECEIVED BY (COURIER)

(Signature) (Time):

(Printed Name) (Date):

(Company):

RECEIVED BY (LABORATORY)

(Signature) (Time): 15:17

(Printed Name) (Date): Sept 15

(Company):

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

NAUTILUS ENVIRONMENTAL
ATTN: Karen Lee
8664 Commerce Court
Imperial Square Lake City
Burnaby BC V5A 4N7

Date Received: 09-NOV-11
Report Date: 18-NOV-11 18:06 (MT)
Version: FINAL

Client Phone: 604-420-8773

Certificate of Analysis

Lab Work Order #: L1083212

Project P.O. #: NOT SUBMITTED
Job Reference:
C of C Numbers: 1, 2
Legal Site Desc:

Can Dang
Senior Account Manager

[This report shall not be reproduced except in full without the written authority of the Laboratory.]

ALS ENVIRONMENTAL ANALYTICAL REPORT

Grouping	Analyte	L1083212-1 WATER 09-NOV-11 LAB CONTROL	L1083212-2 WATER 09-NOV-11 LAB 50 - NO3	L1083212-3 WATER 09-NOV-11 LAB 100 - NO3	L1083212-4 WATER 09-NOV-11 LAB 200 - NO3	L1083212-5 WATER 09-NOV-11 SLIPPER CONTROL
Sample ID						
Description						
Sampled Date						
Sampled Time						
Client ID						
WATER						
Anions and Nutrients	Alkalinity, Total (as CaCO3) (mg/L)	5.5				15.9
	Chloride (Cl) (mg/L)	18.5				2.67
	Nitrate (as N) (mg/L)	0.0728	55.7	111	209	0.0734
	Sulfate (SO4) (mg/L)	14.9				21.7
Total Metals	Calcium (Ca)-Total (mg/L)	3.90				4.39
	Magnesium (Mg)-Total (mg/L)	2.35				2.81
	Potassium (K)-Total (mg/L)	2.9				<2.0
	Sodium (Na)-Total (mg/L)	9.0				7.2

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID	L1083212-6	L1083212-7	L1083212-8	L1083212-9	
Description	WATER	WATER	WATER	WATER	
Sampled Date	09-NOV-11	09-NOV-11	09-NOV-11	09-NOV-11	
Sampled Time					
Client ID	SLIPPER 50 - NO3	SLIPPER 100 - NO3	SLIPPER 200 - NO3	SLIPPER 400 - NO3	
Grouping / **Analyte**					
WATER					
Anions and Nutrients					
Alkalinity, Total (as CaCO3) (mg/L)					
Chloride (Cl) (mg/L)					
Nitrate (as N) (mg/L)	53.3	111	211	433	
Sulfate (SO4) (mg/L)					
Total Metals					
Calcium (Ca)-Total (mg/L)					
Magnesium (Mg)-Total (mg/L)					
Potassium (K)-Total (mg/L)					
Sodium (Na)-Total (mg/L)					

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ALK-COL-VA	Water	Alkalinity by Colourimetric (Automated)	APHA 310.2

This analysis is carried out using procedures adapted from EPA Method 310.2 "Alkalinity". Total Alkalinity is determined using the methyl orange colourimetric method.

ANIONS-CL-IC-VA	Water	Chloride by Ion Chromatography	APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

ANIONS-NO3-IC-VA	Water	Nitrate in Water by Ion Chromatography	EPA 300.0

This analysis is carried out using procedures adapted from EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography". Nitrate is detected by UV absorbance.

ANIONS-SO4-IC-VA	Water	Sulfate by Ion Chromatography	APHA 4110 B.

This analysis is carried out using procedures adapted from APHA Method 4110 B. "Ion Chromatography with Chemical Suppression of Eluent Conductivity" and EPA Method 300.0 "Determination of Inorganic Anions by Ion Chromatography".

MET-TOT-ICP-VA	Water	Total Metals in Water by ICPOES	EPA SW-846 3005A/6010B

This analysis is carried out using procedures adapted from "Standard Methods for the Examination of Water and Wastewater" published by the American Public Health Association, and with procedures adapted from "Test Methods for Evaluating Solid Waste" SW-846 published by the United States Environmental Protection Agency (EPA). The procedures may involve preliminary sample treatment by acid digestion, using either hotblock or microwave oven (EPA Method 3005A). Instrumental analysis is by inductively coupled plasma - optical emission spectrophotometry (EPA Method 6010B).

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
VA	ALS ENVIRONMENTAL - VANCOUVER, BC, CANADA

Chain of Custody Numbers:

1 2

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.
mg/kg - milligrams per kilogram based on dry weight of sample.
mg/kg wwt - milligrams per kilogram based on wet weight of sample.
mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.
mg/L - milligrams per litre.
< - Less than.
D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).
N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.
UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.
Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

Nautilus Environmental

L1083212

British Columbia
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773

Chain of Custody

Date Nov 9/11 Page 1 of 2

Sample Collection By:

Report to:		Invoice To:	
Company		Company	
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	karen@nautilusenvironmental.com	Email	karen@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	(Nitrate) NO_3-N	(Sodium) Na	(Potassium) K	(Calcium) Ca	(Magnesium) Mg	(Sulfate) SO_4	(Chloride) Cl	Alkalinity			Receipt Temperature (°C)
1	Lab Control	09-Nov-11			125ml Bottle	1	FHM Day 7	x	x	x	x	x	x	x	x			
2	Lab 50 - NO_3	09-Nov-11			125ml Bottle	1	FHM Day 7	x										
3	Lab 100 - NO_3	09-Nov-11			125ml Bottle	1	FHM Day 7	x										
4	Lab 200 - NO_3	09-Nov-11			125ml Bottle	1	FHM Day 7	x										
5	~~Lab 400 - NO_3~~ KBL	~~09-Nov-11~~			~~125ml Bottle~~	~~1~~	~~FHM Day 7~~	~~x~~										
6	~~Lab 800 - NO_3~~	~~09-Nov-11~~			~~125ml Bottle~~	~~1~~	~~FHM Day 7~~	~~x~~										
7																		
8																		
9																		
10																		

ANALYSES REQUIRED

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:		Total No. of Containers	
PO No.:		Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: 7 day FHM chronic nitrate test with lab water-Day 7. Samples not preserved.

RELINQUISHED BY (CLIENT)	RELINQUISHED BY (COURIER)
(Signature) Karen (Time) 1700h	(Signature) (Time)
(Printed Name) Karen Lee (Date) Nov 9/11	(Printed Name) (Date)
(Company) Nautilus Environmental	(Company)

RECEIVED BY (COURIER)	RECEIVED BY (LABORATORY)
(Signature) (Time)	(Signature) Carly (Time) 1715
(Printed Name) (Date)	(Printed Name) CARLY (Date) 09 NOV
(Company)	(Company) 20°C

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

Nautilus Environment

TESTING LOCATION (Please Circle)

(1)

British Columbia
8664 Commerce Court
Burnaby, British Columbia, Canada V5A 4N3
Phone 604.420.8773

Chain of Custody

Date NOV 9/11 Page 2 of 2

Sample Collection By:

Report to:		Invoice To:	
Company	(1)	Company	(1)
Address		Address	
City/State/Zip		City/State/Zip	
Contact		Contact	
Phone		Phone	
Email	karen@nautilusenvironmental.com	Email	karen@nautilusenvironmental.com

	SAMPLE ID	DATE	TIME	MATRIX	CONTAINER TYPE	NO. OF CONTAINERS	COMMENTS	ANALYSES REQUIRED: (Nitrate) NO_3-N	(Sodium) Na	(Potassium) K	(Calcium) Ca	(Magnesium) Mg	(Sulfate) SO_4	(Chloride) Cl	Alkalinity			Receipt Temperature (°C)
1	Slipper Control	09-Nov-11			125ml Bottle	1	FHM Day 7	x	x	x	x	x	x	x	x			
2	Slipper 50 - NO_3	09-Nov-11			125ml Bottle	1	FHM Day 7	x										
3	Sipper 100 - NO_3	09-Nov-11			125ml Bottle	1	FHM Day 7	x										
4	Slipper 200 - NO_3	09-Nov-11			125ml Bottle	1	FHM Day 7	x										
5	Slipper 400 - NO_3	09-Nov-11			125ml Bottle	1	FHM Day 7	x										
6	~~Slipper 800 - NO_3~~	~~09-Nov-11~~			~~125ml Bottle~~	~~1~~	~~FHM Day 7~~	x										
7																		
8																		
9																		
10																		

PROJECT INFORMATION		SAMPLE RECEIPT	
Client:		Total No. of Containers	
PO No.:		Received Good Condition?	
Shipped Via:		Matches Test Schedule?	

SPECIAL INSTRUCTIONS/COMMENTS: 7 day FHM chronic nitrate test with lab water- Day 7. Samples not preserved.

RELINQUISHED BY (CLIENT)		RELINQUISHED BY (COURIER)	
(Signature)	(Time) 1700h	(Signature)	(Time)
(Printed Name) Karen Lee	(Date) NOV 9/11	(Printed Name)	(Date)
(Company) Nautilus Environmental		(Company)	
RECEIVED BY (COURIER)		**RECEIVED BY (LABORATORY)**	
(Signature)	(Time)	(Signature) CARLY	(Time) 1715.
(Printed Name)	(Date)	(Printed Name) CARLY	(Date) 09 NOV
(Company)		(Company) 20°C	

Additional costs may be required for sample disposal or storage. Payment net 30 unless otherwise contracted.

BHP Billiton Canada Inc.
Operator of the EKATI Diamond Mine

BHP Billiton EKATI Diamond Mine
#1102 4920-52nd Street
Yellowknife NT Canada X1A 3T1
Tel 867 669 9292 Fax 867 669 9293
bhpbilliton.com

September 12, 2012

Wek'èezhìi Land and Water Board
#1, 4905 – 48th Street
Yellowknife, NT
X1A 3S3
Attention: Ms. Violet Camsell-Blondin, Chair

Dear Ms. Camsell-Blondin

Re: EKATI Diamond Mine – Application for Renewal of Water Licence W2009L2-0001
Supplementary Technical Report Re. Nitrate Site Specific Water Quality Objective

In April 2012, BHP Billiton Canada Inc. (BHP Billiton) provided the Wek'eezhii Land and Water Board (the Board) an Application for Renewal of Type 'A' Water Licence W2009L2-0001 for the EKATI Diamond Mine (the Application). The Application was assigned file number W2012L2-0001 by the Board. The Application included a technical report that developed a site-specific water quality objective (SSWQO) for the nitrate ion in waters around the EKATI Diamond Mine.

While preparing the Application, BHP Billiton heard questions from various parties on whether the SSWQO for nitrate would be protective of lake trout, a species that is present in waters around the EKATI Mine and that had been shown, in a single test, to be sensitive to nitrate in very soft test water. To make sure that all parties would have additional information verifying that lake trout will be adequately protected, BHP Billiton initiated longer-term laboratory testing of lake trout. Those tests have been completed and are reported in the attached technical report. The results verify that the SSWQO for nitrate is protective of lake trout.

The attached technical report is provided as a supplemental submission to the Application. Please contact the undersigned if you have any questions on this submission.

Yours sincerely,

BHP Billiton Canada Inc.

Eric Denholm, Superintendent-Traditional Knowledge and Permitting
EKATI Diamond Mine

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September 11, 2012

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Attention: Eric Denholm, Superintendent- Traditional Knowledge and Permitting

Dear Mr. Denholm:

Re: Toxicity of nitrate to early life stages of lake trout in two water types: very soft water and moderately hard water

Please find the following Nautilus Environmental report titled '*Toxicity of nitrate to early life stages of lake trout in two water types: very soft water and moderately hard water*'. This report was completed as part of the '*2011 Scope of Work for a Site Specific Water Quality Objective (SSWQO) for Nitrate*'. The report provides the results of laboratory testing to provide empirical support for the hardness dependent nitrate SSWQO. Specifically the testing was performed to evaluate whether inclusion of water hardness as a toxicity modifying factor, per the SSWQO developed for EKATI, is appropriate for lake trout. The results demonstrate that increasing water hardness does indeed reduce the sensitivity of early life stages of lake trout to nitrate.

The results of these tests are shown in comparison to the nitrate SSWQO in Figure 1 below. Figure 1 also shows results from the toxicity tests that were used as the basis of the site specific water quality guideline, as well as additional tests using *Ceriodaphnia dubia* and fathead minnows conducted previously in lake waters from EKATI. All of the toxicity test results, including the results of the lake trout tests fall above the proposed hardness dependent SSWQO for nitrate (Figure 1). Based on these findings, the nitrate SSWQO for EKATI is expected to protect the early life stages of lake trout.

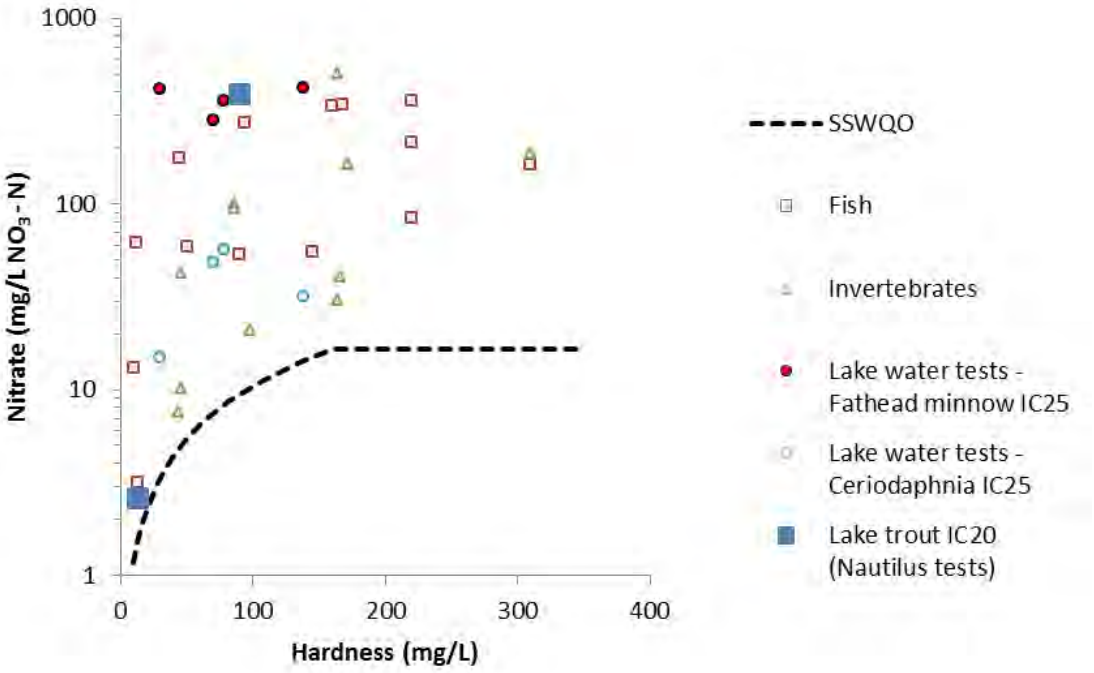
Sincerely,

RESCAN™ ENVIRONMENTAL SERVICES LTD.
per:

Tonia Robb
Project Manager, Aquatics

Marc Wen
Project Director

Figure 1. Toxicity test results for early life stages of lake trout shown in comparison to the SSWQO for EKATI, and data used in the development of the SSWQO.



Nautilus Environmental

Toxicity of nitrate to early life stages of lake trout in two water types: very soft water and moderately hard water

Final Report

Report date:
September 10, 2012

Submitted to:

Rescan Environmental Services Ltd.
Vancouver, BC

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EXECUTIVE SUMMARY

Previous testing has demonstrated that the toxicity of nitrate is reduced as water hardness increases using a variety of species. On the basis of these data, a site-specific water quality objective (SSWQO) has been developed for the EKATI diamond mine, which takes into consideration the hardness of the water, and allows a higher concentration of nitrate at higher hardness.

Early life stages development of lake trout (*Salvelinus namaycush*) is the most sensitive species/endpoint that has been reported for toxicity of nitrate; effects were observed on this species at concentrations as low as 6.25 mg/L NO_3-N (McGurk et al. 2006). However, this test was conducted under very soft water conditions associated with Metro Vancouver municipal tapwater. Thus, on the basis of the findings that sensitivity to nitrate tends to decrease with increasing water hardness, it is likely that the sensitivity of this species to nitrate observed by McGurk et al. (2006) was exacerbated by the low ionic strength of the water that the tests were conducted in, and that the results from that test may not be relevant to situations where water hardness is higher.

Lake trout are an important species in the lakes at EKATI and, since the relationship between water hardness and toxicity has not been established for this species, it was desirable to confirm whether sensitivity of this species does indeed decrease at higher hardness. Consequently, the tests reported here were conducted in waters with two hardness levels to demonstrate whether toxicity is altered by water hardness with this species, in a manner that is similar to other species.

The toxicity of nitrate to early life stages of lake trout was evaluated in two water types: very soft water, which was comprised of dechlorinated Metro Vancouver municipal tap water, which has a hardness of approximately 10 mg/L as $CaCO_3$ and is the same water type employed by McGurk et al. (2006), and moderately hard water, which was prepared by addition of reagent grade salts to dechlorinated tapwater to achieve a hardness of 80 to 100 mg/L as $CaCO_3$, and a similar ratio of major ions (i.e., calcium, magnesium, potassium, sodium, chloride, sulphate and bicarbonate) to that observed at EKATI.

The results of the tests demonstrated a significant reduction in toxicity of nitrate to lake trout at higher hardness. Lake trout alevins exhibited delayed yolk sac absorption in the very soft

water, with an IC_{20} of 2.6 mg/L NO_3-N, however, no effect of nitrate was observed in any of the test concentrations when tested in moderately hard water, indicating that lake trout had no adverse effects when exposed to nitrate as high as 329.8 mg/K NO_3-N. Thus, the results for the test in very soft water were comparable to those reported by McGurk et al. (2006), and the results for the test in moderately hard water demonstrated that this species was substantially less sensitive to nitrate in higher hardness water, and showed no adverse effect at a concentration that was more than 100 times higher than the current Canadian water quality guideline for the protection of freshwater life (3.0 mg/L NO_3-N; CCME, 2012).

The results of the tests reported here support the SSWQO that has been developed for EKATI, in which under soft water conditions a SSWQO that is lower than the current Canadian water quality guideline for nitrate is applicable, and which increases with increasing hardness to an upper bound of approximately 16.4 mg/L at hardness greater than approximately 160 mg/L (Figure 3 herein). The data presented here for lake trout fall above the SSWQO under both very soft water and moderately hard water conditions, indicating that the SSWQO developed for EKATI is protective of this species.

1.0 INTRODUCTION

The toxicity of major anions, such as sulphate and chloride, has been shown to be reduced with increasing water hardness (Elphick et al., 2011a and b). Recent work has demonstrated that toxicity of nitrate to aquatic organisms (including an amphipod, chironomid, daphnid, rainbow trout and fathead minnows) is also reduced with increasing water hardness (Baker et al., 2010), and a site-specific water quality objective (SSWQO) has been developed for BHP Billiton's EKATI diamond mine (EKATI) on the basis of these interactions (Rescan, 2012).

Lake trout, a member of the subfamily Salmonidae, are widely distributed across North America and have been demonstrated to be particularly sensitive to nitrate during early life stages (McGurk et al., 2006). The tests described by these authors were performed on behalf of EKATI, and demonstrated subtle, but statistically-significant adverse effects on the time taken for alevins to fully absorb their yolk sacs, and the growth of these alevins, at concentrations as low as 6.25 mg/L NO_3-N; at this concentration, an 11% reduction in growth was observed. The ecological relevance of a delay in absorption of the yolk is not entirely clear, and the risk at a population level associated with these effects has been questioned (McGurk et al. 2006; Golder Associates 2011). This effect concentration reflects the most sensitive toxicological threshold for nitrate reported in the literature. However, these tests were conducted in very soft water (McGurk et al., 2006) and, consequently, based on the recent findings that water hardness reduces toxicity of nitrate, these results may not be directly applicable to conditions at EKATI where water hardness is higher.

The testing described here was performed to confirm the sensitivity of lake trout to nitrate and to evaluate the role of hardness (from calcium and magnesium ions), or the concentrations of other major ions associated with higher hardness water (e.g., chloride, bicarbonate, sulphate, sodium and potassium), in modifying the toxicity of nitrate to the early life stages of lake trout. Specifically, the test was initiated to determine sensitivity to nitrate in very soft water comparable to that used by McGurk et al. (2006), as well as in a blend of ions consistent with that observed in lakes downstream of the EKATI mine.

2.0 METHODS

2.1 Lake Trout Gamete Collection

Gametes (i.e., eggs and sperm) from ripe, pre-spawn lake trout (*Salvelinus namaycush*) were collected from Shuswap Lake (50° 56′ 00″ N, 119° 17′ 00″; UTM: 11U 339559E, 5644894N), BC Canada, on November 17th and 18th, 2011. Field work was conducted by Rescan fisheries biologists Kevin Esseltine (M.Sc.) and Fraser Ross (B.Sc.) with the assistance of Rodney Hennig (boat operator and guide, Rodney's REEL Fishing, Kelowna, BC). Licenses and permits for the 'Collection of Fish for Scientific Purposes' were issued by Fisheries and Oceans Canada (DFO; License No.: XHAB 170 2011 - Amendment 1) and the BC Ministry of the Environment (BCMoE; Permit No.: KA11-74668), respectively. Lake trout were collected from a location in BC rather than from NWT because of restrictions on transportation of salmonids related to disease control.

Lake trout were targeted using gillnets set at two known lake trout spawning sites on Shuswap Lake. Three gillnet gangs were constructed with three panels of either 1 inch (25 mm) or 1.5 inch (38 mm) stretched mesh. Gillnet panels were sewn together to minimize gaps between panels. Each gillnets gang was fished for a short duration (30 minutes). Small-mesh gillnets set for short duration were a requirement of both the DFO and BCMoE collection permits, and essential for reducing handling stress on spawning lake trout to prevent any incidental mortalities.

Captured lake trout were immediately placed in a tub filled with ambient lake water (7 - 8°C) and allowed to recover. Ripe individuals were 'stripped' of gametes by gentle squeezing of the ventral side of the fish to expel gametes. Male lake trout gametes (i.e., milt) were expelled into small glass jars, and female gametes (i.e., eggs) were expelled into larger Ziplock containers. Each jar or container was labeled with the unique fish identification number and recorded in field notes. Following stripping of gametes from each lake trout, the fish was returned to a bin filled with ambient, well-oxygenated lake water. Once the lake trout was fully recovered, fork length was measured and any tags from previous BCMoE mark-recapture studies were recorded in field notes. Lake trout that were sexually immature or not in ripe condition were released back to the water at the site of capture.

Each sample was immediately placed into a cooler with ice to ensure that samples remained cool (approximately 4 - 5° C). Gamete samples were collected from four female and four male

adults. Once this sample size was obtained, the cooler containing the gamete samples was transported via automobile (approximately 4-hr drive) directly to Nautilus Environmental.

The eggs and milt were received at 2030h on November 18th at Nautilus Environmental and were kept in an environmental chamber at 7°C until the following morning (November 19th), when the eggs and milt were inspected and the test initiated. Holding time of the gametes from collection to test initiation ranged from 24 to 48 hours.

2.2 Toxicity test methods

Toxicity tests were conducted in an equivalent manner to that described by McGurk et al. (2006) which was adapted from Environment Canada (1998) procedures for testing early life stages of salmonids; for comparison, a summary of test conditions from this test and the test conducted by McGurk et al. (2006) is provided in Table 1.

Two tests were conducted simultaneously; one was performed in dechlorinated Metro Vancouver tapwater (approximately 10 mg/L hardness as $CaCO_3$), similar to the water used in the test conducted by McGurk et al. (2006), and a second test was conducted in water prepared to moderately hard conditions (80 to 100 mg/L as $CaCO_3$) but with the same balance of ions as occuring at EKATI; additional details of these water types are provided in Section 2.3.

A subsample of milt from each male was mixed with water and inspected under a microscope to determine sperm viability. Milt was selected and pooled from males that produced sperm with good motility. Sperm from males #2 and #3 were determined to have good motility and were pooled and used for fertilization of the eggs.

Eggs from each female fish were fertilized separately, in the Ziplock containers that they were provided in, using the pooled milt delivered with a glass Pasteur pipette, and the eggs and milt were gently mixed. The containers were left for approximately 20 minutes for fertilization, at which time the eggs were transferred into rearing chambers (4-L food-grade plastic tubs) containing the test solutions, so that water hardening, which involves swelling of the egg and hardening of the chorion resulting from water intake, would take place in the presence of the nitrate test solutions. Four replicates were used, each containing 30 eggs. The eggs were introduced into the test containers using a blocked design, with replicate A of each of the test concentrations receiving eggs from female #1, replicate B receiving eggs from female #2, and so on. In this manner, the performance of the individual fish could be evaluated. The test

containers were randomized within each test to account for subtle temperature variations within the environmental chamber.
The fish were reared in an environmental chamber with air conditioning and digital thermostat; temperature was maintained at 7 ± 1°C. Prior to hatching of the lake trout, the chamber was kept dark (24-hr) and sufficient low-level lighting was provided during water renewals by a single incandescent bulb. The test containers were placed on shelves and black plastic was used to shield the containers. After all of the lake trout had hatched, the chamber was placed on a 11:13 light:dark photoperiod using low-level lighting and the black plastic removed.

In the same manner as the McGurk et al. (2006) study, the test solutions were renewed three times per week, rather than daily, since nitrate did not dissipate in the test containers and the exposure temperature was cold. Eighty percent of the solution was renewed with each water change and care was taken to ensure that the embryos were not disturbed by turbulence during this process.

Test chambers were provided with continuous aeration just below the surface of the water using thin plastic tubing. Aeration was sufficient to maintain dissolved oxygen levels close to saturation, while providing gentle mixing of the water in the test containers throughout the exposure period. Water quality parameters (dissolved oxygen, temperature, conductivity, pH) were measured on the freshly prepared and 48 to 72-hr old solutions during each water change.

The fish were observed before each water change and mortalities were removed and recorded on data sheets. The number of hatched embryos was also recorded to determine if there was significant delay in hatching of lake trout embryos due to the exposure to sodium nitrate. Eggs were determined to have died when the egg had turned partially or fully opaque. Hatched fish were determined to be dead when there was no evidence of movement from any part of the fish, including fins and operculum. Dead eggs were removed using a wide-bore glass pipette and dead fish were removed using a small net.

The test duration was 132 days, included the lifestages incorporated by the embryo-alevin test described by Environment Canada (1998), and was extended until the majority of the alevins (i.e., >50%) in the controls were considered to have fully absorbed the yolk-sac and reached the swim-up stage, including swimming actively in the water column. In addition to the usual test endpoints (i.e., survival of normally-developed fry), the fish were weighed, measured for length and scored for quantity of residual yolk sac. The last of these endpoints was evaluated because McGurk et al. (2006) noted that lake trout exposed to nitrate exhibited a delay in achieving full

yolk sac absorption. Residual yolk sac in each of the fish was assigned a value of 0, 1, 2 or 3 at test termination, where a score of zero was assigned to fish in which there was no residual yolk, and a score of 3 was assigned to fish that appeared to have consumed little or no yolk. The procedure used to evaluate the yolk sac is summarized in Table 2. This assessment was qualitative, but differences between yolk sac condition were readily distinguishable. The same biologist assigned yolk sac scores to all of the surviving fry at test termination, thus providing consistency in this assessment. Point estimates associated with delay in reaching swim-up were calculated on the basis of the proportion of surviving fish that were considered to have completely absorbed their yolk sac at test termination (i.e., fish that were assigned a yolk sac score of zero).

Table 1. Summary of test conditions: lake trout early life stage test.

	Present Study	McGurk et al. (2006)
Test organism source	Shuswap Lake, BC	Great Slave Lake, NWT
Test organism age	Eggs and milt, fertilized just prior to test initiation	Eggs and milt, fertilized just prior to test initiation
Test type	Static-renewal (3 times per week)	Static-renewal (3 times per week)
Test duration	132 days	146 days
Test vessel	4-L plastic buckets	2.5-L plastic jars
Exposure volume	2 L	2 L
Test replicates	4	4
No. of organisms	30 per replicate	30 per replicate
Test temperature	7 ± 1°C	7.5 ± 1°C
Feeding	None	None
Photoperiod	Pre-Hatch: 24 hr dark; dim light used during solution renewal Post-Hatch: 11:13 light:dark	Adjusted periodically to reflect natural photoperiods from 5:19 to 11:13 light:dark
Aeration	Continuous	Continuous
Test protocol	Environment Canada (1998), EPS	Environment Canada (1998), EPS
Test endpoints	Survival, length, weight,	Survival, length, weight,
Test acceptability criterion for controls	≥70% fertilization; ≥60% normal surviving alevins	≥60% normal surviving alevins

Table 2. Yolk sac absorption assessment

Yolk Sac Score	Assessment
0	Yolk sac appears fully absorbed. Absence of significant yolk sac coloration.
1	A bulge and orange coloration characteristic of residual yolk present.
2	Small/Medium size yolk sac.
3	Large yolk sac. No change from appearance when initially hatched.

2.3 Water Types

The early life stage tests were conducted in two water types: very soft water (VSW), comprised of dechlorinated Metro Vancouver municipal tapwater with no added salts (hardness ranging from 5 to 15 mg/L) and a moderately hard water (MHW) prepared by addition of reagent grade salts to dechlorinated municipal tapwater to achieve a hardness of 80 to 100 mg/L with a balance of major ions reflective of EKATI lakes in the Koala Watershed. The amount of reagent grade salts added to 200 L of dechlorinated water to prepare the MHW is provided in Table 3.

Table 3. Salts added to dechlorinated tapwater to achieve the MHW blend.

Salt	Grams in 200L	mg/L
NaCl	7.52	37.6
KCl	4.56	22.8
$CaSO_4*2H_2O$	13.148	65.7
$MgCl_2*6H_2O$	17.076	85.4
Na_2SO_4	4.8	24.0
$NaHCO_3$	6.72	33.6

Two 200-L plastic containers, containing the VSW and MHW dilution waters, respectively, were placed in the environmental chamber and provided with continuous aeration for at least 24 h prior to water renewals to ensure that the water temperature was the same as in the test chambers and that the water was fully saturated with respect to dissolved oxygen concentration. These containers were re-filled periodically throughout the exposure, as needed.

Hardness and alkalinity were measured on every new batch of VSW and MHW. Nitrate was introduced by addition of reagent grade sodium nitrate. The nitrate concentrations were prepared using a 0.5 times dilution series, in which each concentration is twice the next lower concentration and half the next higher dilution. The nominal concentrations were: 2.5, 5, 10, 20, and 40 mg/L NO_3-N for the VSW test and 20, 40, 80, 160 and 320 mg/L NO_3-N for the MHW test. Test concentrations were selected in the VSW water test to bracket the threshold for effects reported by McGurk et al. (2006) (i.e., 6.25 mg/L as NO_3-N). A higher range of test concentrations was tested in the MHW test, since it was anticipated that the higher ionic strength associated with this water would reduce the toxicity of nitrate. Nitrate concentrations were measured in all test solutions at test initiation, test termination and in the exposure chambers and in freshly-prepared solutions during a water change at an intermediate point in the test.

2.4 Statistical analyses

Statistical analyses were conducted using the average of the measured concentrations of nitrate and using CETIS version 1.8 (Tidepool Scientific Software, 2007).

3.0 RESULTS

3.1 Measured parameters

Measured concentrations of nitrate were in good agreement with the target concentrations and averaged 106% of the nominal values. The average measured concentrations of nitrate were 2.9, 5.4, 11.0, 21.0 and 43.5 mg NO_3-N/L, and 21.0, 42.0, 84.6, 150.0 and 329.8 mg NO_3-N/L, for the VWS and MHW tests, respectively (Appendix A).

The range of water quality parameters and analyzed concentrations of ions for the test waters are shown in Tables 4 and 5, respectively, where they are compared to the average observed concentrations for four lakes in the Koala watershed. The concentrations of various ions within the MHW blend were lower than observed in Leslie and Moose Lakes and higher than in Nema and Slipper Lakes; the concentrations of ions occurring in the MHW were close to the average of the four lakes. The concentrations of ions in the MWH and the four lakes is shown in Figure 1 on the basis of the molar ratios, relative to calcium present in the water; a similar ratio of the various ions was observed in the four lake waters and the MHW blend of ions. Therefore, the MHW blend provided an appropriate representation of the blend of ions observed in lakes within the Koala watershed.

Table 4. Water quality parameters for test dilution waters and freshwater lakes of the Koala watershed.

Parameter	VSW	MHW	Leslie [a]	Moose [a]	Nema [a]	Slipper [a]
Alkalinity (mg/L)	5 - 10	24 - 30	37 ± 5	37 ± 4	19 ± 3	10 ± 1
Hardness (mg/L)	5 - 13	78 - 90	135 ± 15	136 ± 15	57 ± 5	23 ± 5
Conductivity (µS/cm)	29 - 33	380 - 410	662 ± 106	639 ± 101	246 ± 35	91 ± 13
pH	6.7 - 7.2	7.2 - 7.6	7.8 ± 0.2	7.8 ± 0.2	7.5 ± 0.2	7.3 ± 0.4

a- Average (with standard deviation) of measured observations conducted in August of 2007, 2009 and 2011 (n=18-21)

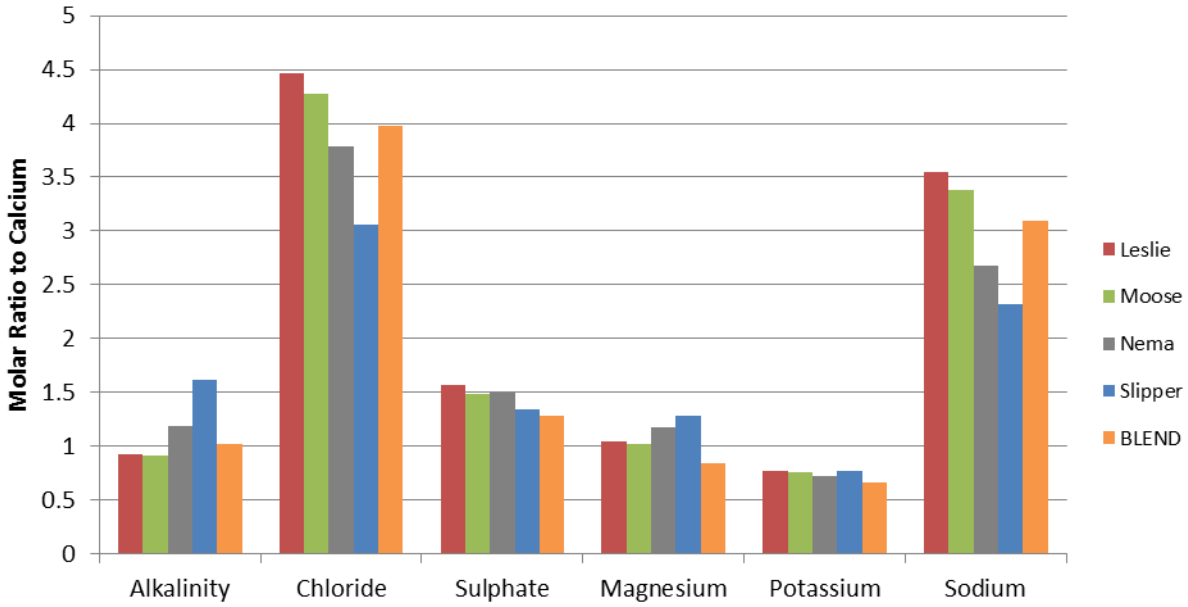
Table 5. Concentrations of ions in the dilution waters tested and lakes of the Koala watershed.

Ion (mg/L)	VSW	MHW	Leslie [a]	Moose [a]	Nema [a]	Slipper [a]	Average [b]
Cl	1.9	61.0	104.6 ± 26.8	102.0 ± 25.0	35.4 ± 9.0	10.9 ± 3.0	63.2
SO_4	2.4	53.0	99.7 ± 10.5	95.7 ± 9.8	37.9 ± 4.9	12.9 ± 1.6	61.6
Ca	3.7	17.3	26.4 ± 3.0	26.9 ± 3.5	10.5 ± 1.6	4.0 ± 0.4	17.0
Mg	0.2	8.8	16.7 ± 3.1	16.6 ± 3.7	7.5 ± 1.6	3.1 ± 0.4	11.0
K	<2.0	11.1	20.2 ± 3.7	19.8 ± 2.9	7.5 ± 1.3	3.0 ± 0.3	12.6
Na	2.4	30.8	54.0 ± 16.5	52.2 ± 17.5	16.2 ± 5.9	5.4 ± 2.0	32.0

a- Average with standard deviation of measured observations from 2007, 2009 and 2011 sampling of respective lakes (n=18-21)

b- Average of four freshwater lakes: Leslie, Moose, Nema, and Slipper

Figure 1. Molar ratios of chloride, alkalinity, sulphate, magnesium, potassium and sodium, presented as a function of calcium, in four freshwater lakes from Koala Watershed and the MHW Blend.



3.2 Survival and growth of lake trout

Toxicity test data for tests in VSW and MHW are provided in Appendices B and C, respectively. The percentage of eggs (mean ± SD) in the VSW and MHW control waters that reached the eyed-embryo stage was 74.2 ± 12.6% and 71.7 ± 7.9%, respectively. Thus, the tests in both water types met the test requirement of having had at least 70% fertilization. Control survival at the end of exposure was 61.7 ± 18.2% and 63.3 ± 14.1% as a percentage of eggs added at the start in the VSW and MHW tests, respectively. These rates of survival met the performance criterion specified in the test method of ≥60% survival.

The majority of mortalities that were observed in the tests occurred prior to reaching the eyed-embryo stage, and were lacking in embryonic development, suggesting that the majority of the effect observed on survival was due to reduced fertilization success prior to the start of the test, rather than being related to exposure to nitrate. Regardless, both tests met all of the control performance criteria for accepting the test results, as noted above.

The average day (± Standard Deviation; SD) on which at least 50% of surviving embryos had hatched was Day 83.5 ± 4.2 for the VSW water and Day 87.5 ± 1.9 for the MHW controls. The four day difference between these averages for the controls of the two test types may reflect slight differences in test temperature within the test chamber, since developmental rate is directly affected by temperature, which would become amplified as a result of the substantial duration of the exposure. The average day at which 50% hatch was observed for each concentration is shown in Table 6; no significant effect on time to hatch was observed associated with exposure to sodium nitrate in either water type.

Both the VSW and MHW tests were terminated on Day 132 when it was judged that the majority of fish in the controls had absorbed their yolk sac and were swimming actively in the water column.

Survival of lake trout in the VSW and MHW tests is summarized in Tables 7 and 8, respectively. No significant adverse effects on survival associated with nitrate exposure were observed during any of the stages of lake trout development in either of the water types; these stages included survival from eggs to eyed-stage embryo, survival from eyed-stage embryo to fry, and survival for the complete exposure from egg to fry. The effect levels for survival (e.g., LC_{10}, LC_{20}, values) would be considered to be greater than the highest concentrations tested (i.e., >43.4 and >329.8 mg/L NO_3-N in the VSW and MHW tests, respectively).

Table 6. Average time to 50% hatch for VSW and MHW tests.

Very Soft Water		**Moderately Hard Water**	
Concentration (mg NO_3-N/L)	**Day > 50% Hatched**	**Concentration (mg NO_3-N/L)**	**Day > 50% Hatched**
Control	83.5 ± 4.2	Control	87.5 ± 1.9
2.9	85.0 ± 1.2	21.0	86.5 ± 1.0
5.4	87.0 ± 2.6	42.0	88.5 ± 1.9
11.0	86.0 ± 1.6	84.6	87.0 ± 2.6
21.0	85.5 ± 1.0	150.0	87.0 ± 1.2
43.4	86.0 ± 2.3	329.8	87.0 ± 1.2

Table 7. Survival of *Salvelinus namaycush* in the early life stage test conducted in very soft water.

Concentration (mg NO_3-N/L)	Survival (Mean ±SD)%		
	Survival to eyed egg stage	Survival from eyed egg to fry stage	Overall survival (egg to fry)
Control	74.2 ± 12.6	81.8 ± 11.1	61.7 ± 18.2
2.9	68.3 ± 12.9	81.5 ± 21.8	57.5 ± 23.5
5.4	69.2 ± 12.6	85.7 ± 14.7	60.0 ± 18.7
11.0	67.5 ± 15.7	80.5 ± 11.4	55.0 ± 19.0
21.0	68.3 ± 21.9	86.0 ± 12.4	60.0 ± 24.2
43.4	68.3 ± 22.9	86.7 ± 11.8	60.8 ± 26.6
Test Endpoint (mg/L NO_3-N)			
LC_{10}	>43.4	>43.4	>43.4
LC_{20}	>43.4	>43.4	>43.4

LC_{10} is the lethal concentration to 10% of the individuals.
LC_{20} is the lethal concentration to 20% of the individuals.

Table 8. Survival of *Salvelinus namaycush* in the early life stage test conducted in moderately hard water blend.

Concentration (mg NO_3-N/L)	Mean (±SD)		
	% Eyed (from initial embryo)	% Fry (from eyed embryo)	% Overall Survival (embryo to fry)
Control	71.7 ± 7.9	87.7 ± 13.0	63.3 ± 14.1
21.0	65.8 ± 14.0	85.7 ± 7.6	56.7 ± 14.4
42.0	75.0 ± 11.4	89.1 ± 12.6	67.5 ± 17.9
84.6	70.0 ± 14.1	84.5 ± 12.6	60.0 ± 19.1
150.0	71.7 ± 15.5	94.1 ± 7.6	66.7 ± 10.5
329.8	70.0 ± 10.5	86.7 ± 4.9	60.8 ± 11.0
Test Endpoint (mg/L NO_3-N)			
LC_{10}	>329.8	>329.8	>329.8
LC_{20}	>329.8	>329.8	>329.8

LC_{10} is the lethal concentration to 10% of the individuals.
LC_{20} is the lethal concentration to 20% of the individuals

Growth of exposed lake trout is summarized in Tables 9 and 10 for the VSW and MHW water types, respectively. The lengths and wet weights of the lake trout exposed to nitrate were not significantly reduced in any of the concentrations tested for either water type, resulting in the inhibition concentration estimated to cause a 10% and 20% inhibitory effect on the exposed organisms (IC_{10} and IC_{20} estimates) of >43.4 and >329.8 mg/L NO_3-N in the VSW and MHW test waters, respectively, for these endpoints.

Measures of developmental delay of fish are also presented in Tables 9 and 10 on the basis of the yolk sac score per fish (a categorical measure, scored from zero to three, of the remaining yolk sac in the fish at test termination), and the percentage of surviving fish that had reached swim-up at the point of test termination (i.e., the percentage of surviving fish that were rated as having a yolk sac score of zero). On this basis, a slight developmental delay was apparent in the VSW test with increasing nitrate concentration (Table 9 and Figure 2). The control fish had an average yolk sac score of 0.12, whereas those exposed to nitrate had average yolk sac scores that ranged from 0.33 to 0.69 in this water type. This effect was small, but is consistent with the results presented by McGurk et al. (2006), who reported that nitrate caused a delay in absorption of yolk in VSW. Presented on the basis of the proportion of surviving fish that had reached swim-up at the end of the test, the IC_{10} and IC_{20} in the VSW test were <2.9 and 2.6 mg/L NO_3-N, respectively. The IC_{10} was reported as <2.9 mg/L because this value fell substantially outside the range of test concentrations (the lowest test concentration was 2.9 mg/L NO_3-N) and, consequently, was not considered to provide a defensible end-point.

Conversely, there was no delay in yolk sac absorption in any of the test concentrations in the MHW test, and no effect of nitrate on proportion of fish reaching the swim-up stage at test termination, indicating that the effect level for developmental delay in this water type was >329.8 mg/L NO_3-N.

Table 9. Growth of *Salvelinus namaycush* in the test conducted in very soft water.

Concentration (mg NO_3-N/L)	Mean (±SD)			
	Wet Weight (mg)	Length (mm)	Yolk Sac Score (Per Fish)	Proportion swim-up at termination
Control	124 ± 13	28.1 ± 1.5	0.12 ± 0.08	87.8 ± 8.2
2.9	127 ± 14	28.7 ± 1.2	0.34 ± 0.22	69.3 ± 17.4 *
5.4	124 ± 10	28.2 ± 1.3	0.58 ± 0.08	50.9 ± 14.9 *
11.0	128 ± 13	27.6 ± 1.7	0.33 ± 0.22	66.9 ± 22.5 *
21.0	125 ± 17	27.5 ± 0.9	0.56 ± 0.33 *	47.5 ± 28.4 *
43.4	124 ± 12	27.1 ± 0.8	0.69 ± 0.24 *	32.5 ± 24.2 *
Test Endpoint (mg NO_3-N/L)				
IC_{10}	>43.4	>43.4	Not applicable	<2.9
IC_{20}	>43.4	>43.4	Not applicable	2.6 (0.0 – 8.5)

* indicates a statistically significant difference relative to the control

IC_{10} is the Inhibition Concentration estimated to cause a 10% inhibitory effect on the exposed organisms.

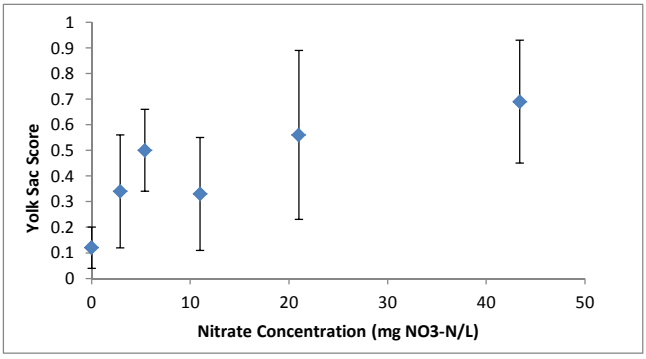
IC_{20} is the Inhibition Concentration estimated to cause a 20% inhibitory effect on the exposed organisms.

Table 10. Growth of *Salvelinus namaycush* in the early life stage test conducted in moderately hard water.

Concentration (mg NO_3-N/L)	Mean (±SD)			
	Wet Weight (mg)	Length (mm)	Yolk Sac Score (Per Fish)	Proportion swim-up at termination
Control	125 ± 15	27.0 ± 1.1	0.45 ± 0.13	55.1 ± 12.5
21.0	129 ± 16	27.8 ± 1.2	0.49 ± 0.05	50.6 ± 5.0
42.0	125 ± 12	26.6 ± 1.6	0.50 ± 0.45	57.9 ± 32.4
84.6	125 ± 13	27.4 ± 1.6	0.47 ± 0.23	54.3 ± 23.5
150.0	127 ± 13	26.2 ± 1.2	0.47 ± 0.14	55.5 ± 12.2
329.8	126 ± 14	26.6 ± 1.5	0.37 ± 0.27	64.2 ± 25.2
Test Endpoint (mg NO_3-N/L)				
IC_{10}	>329.8	>329.8	Not applicable	>329.8
IC_{20}	>329.8	>329.8	Not applicable	>329.8

IC_{10} is the Inhibition Concentration estimated to cause a 10% inhibitory effect on the exposed organisms.
IC_{20} is the Inhibition Concentration estimated to cause a 20% inhibitory effect on the exposed organisms.

Figure 2. Average yolk sac score (per fish) in very soft water



Note: Error bars are ± 1SD.

4.0 DISCUSSION

The results presented here demonstrated that there were no adverse effects on survival, wet weight or length of lake trout exposed to nitrate in VSW up to and including the highest test concentration of 43.4 mg/L NO_3-N. However, a slight delay in yolk sac absorption associated with exposure to nitrate was observed in this VSW test. This effect was very small, but was detected on the basis of the estimated yolk sac scores for the fish at termination.

These results are consistent with McGurk et al.'s (2006) observation that a developmental delay was the most sensitive endpoint in their tests. Adverse effects were reported by these authors on survival and length of fry, but only at concentrations exceeding those tested in the present study; higher concentrations were not included in the current test because a narrower dose-series was selected to provide better resolution of effects end-points associated with the most sensitive endpoints. Effects on wet weight of fry were reported by McGurk et al. (2006) at concentrations as low as 6.25 mg/L NO_3-N, which was not seen in the present study. It is possible that this relates to differences in the methods employed for termination of the tests. In the McGurk et al. (2006) tests, the exposures continued in each test concentration until the yolk was fully absorbed in the individual concentrations, resulting in different exposure durations for the controls and the various test concentrations. This approach complicates appropriate interpretation of growth metrics, since the fry which were considered to have statistically lower wet weights in their study had been reared for 8 to 28 days longer than the control fish, which would have consequences for energy expenditure and, therefore, growth. Regardless, both studies produced data indicating that lake trout exposed in VSW exhibit delayed utilization of the yolk sac, although the ecological consequence of a small delay in yolk absorption at a population level is unknown.

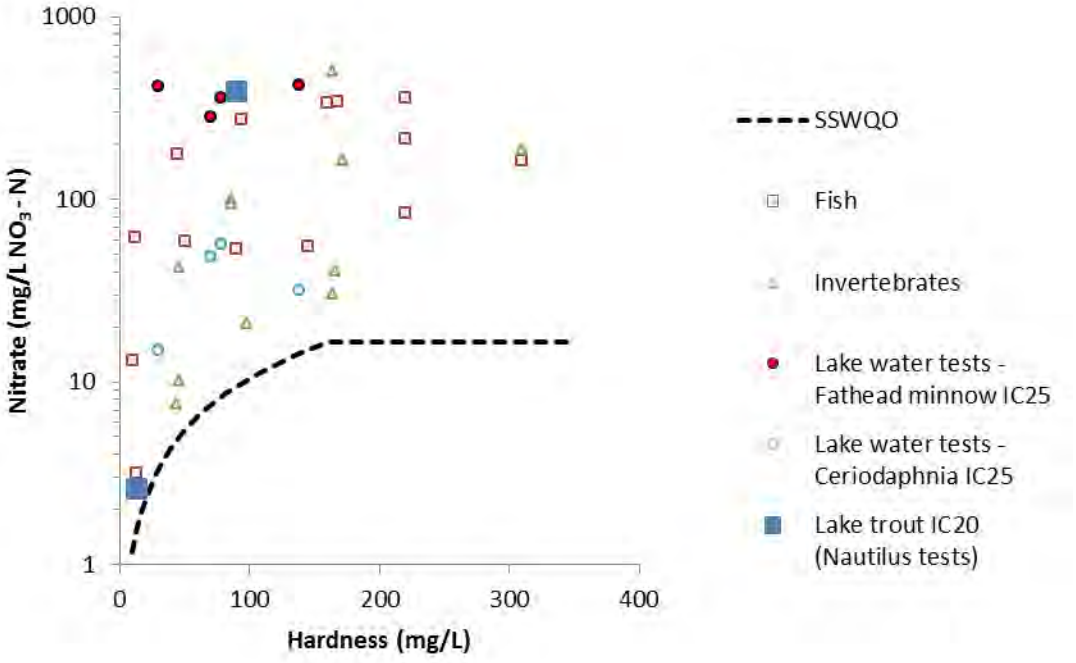
In contrast to the data reported for VSW, there were no adverse effects using any of the test endpoints in the MHW prepared using the ionic blend present in the Koala watershed. The threshold for adverse effects in this water type would be considered to be greater than the highest test concentration (i.e., >329.8 mg/L as NO_3-N). These results demonstrate that the results reported by McGurk et al. (2006), and observed here in VSW, are only applicable to low ionic strength conditions. Indeed, there were no effects observed using MHW at concentrations of nitrate that were more than 100-times higher than the IC_{20} reported here in VSW.

The testing described here was performed to evaluate whether inclusion of water hardness as a toxicity modifying factor, as per the SSWQO developed for EKATI (Rescan, 2012), is

appropriate for lake trout. The results demonstrate that increasing water hardness does indeed reduce the sensitivity of lake trout to nitrate.

The effect levels reported for lake trout in VSW (~12 mg/L hardness) both here (IC_{20} of 2.6 mg/L NO_3-N) and by McGurk et al. (2006) (a LOEC of 6.25 mg/L NO_3-N) were 1.9 to 4.5 times higher than the SSWQO of 1.4 mg/L NO_3-N for this level of water hardness. Similarly, the effect level reported here for this species at a hardness of 80 to 100 mg/L, >329.8 mg/L, is more than 30 times higher than the SSWQO of 8.5 to 10.5 mg/L NO_3-N for this level of hardness. The results of these tests are shown in comparison to the SSWQO in Figure 3, which also shows results from the toxicity tests that were used as the basis of the SSWQO, as well as additional tests using *Ceriodaphnia dubia* and fathead minnows conducted previously in lake waters from the Koala watershed. As can be seen, all of the toxicity test results, including these new data presented here for lake trout under soft and moderate hardness conditions, fall above the SSWQO. These results demonstrate that the SSWQO will be protective of early life stages of lake trout.

Figure 3. Toxicity test results for lake trout shown in comparison to the SSWQO for EKATI, and data used in the development of that SSWQO.



5.0 REFERENCES

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APPENDIX A –Summary of measured nitrate concentrations

Nominal Concentrations (mg/L NO3-N)	Analyzed Concentrations (mg/L NO3-N)				
Dechlorinated Municipal Tap Water	**Initial (fresh solutions)**	**Mid-point (fresh solutions)**	**Mid-point (old solutions)**	**Termination**	**Average**
0		0.109	0.134	0.173	0.1
2.5	2.93	2.81	2.94	2.79	2.9
5	5.56	5.31	5.52	5.28	5.4
10	10.9	11	11.3	10.9	11.0
20	20.9	20.9	21.3	21.1	21.1
40	46.1	42.8	42.8	42.1	43.5
Moderately Hard Synthetic Blend					
0		0.139	0.161	0.158	0.2
20	21.2	20.5	21	21.3	21.0
40	43.8	41.7	42.4	40.3	42.1
80	84.3	83.5	85.5	85.2	84.6
160	108	169	170	153	150.0
320	311	334	347	327	329.8

APPENDIX B –Toxicity Test Data: Very Soft Water

Embryo-Alevin-Fry Test Summary Sheet

Client: Rescan

Start Date/Time: Nov 19/11 @ 1045

Work Order No.: n/a

Test Species: *S.namaycush*

Sample Information:

Test ID: Dechlor-nitrate
Chemical: Sodium Nitrate (NaNO3)

Dilution Water:

Type: Dechlorinated Municipal Tap Water
Hardness (mg/L $CaCO_3$): 5-13
Alkalinity (mg/L $CaCO_3$): 5-10

Test Organism Information:

Source: Shuswap Lake
Loading Density: 30 organisms / 2L
Date Organism Received: Nov 18/11

Test Results:

	mg/L NO3-N			
	Survival	% Swim -up	Wet Weight	Length
EC25 (95% CL)	> 43.5			
EC50 (95% CL)	> 43.5			
IC25 (95% CL)		4.0 (0.7 - 16.6)	> 43.5	> 43.5
IC50 (95% CL)		18.9 (11.3 - N/A)	> 43.5	> 43.5

Reviewed by:

Date reviewed: 15 May 2012

CETIS Analytical Report

Embryo-Alevin-Fry Lake Trout

~~Fathead Minnow 7-d Larval~~ Survival and Growth Test

Report Date:	25 Apr-12 11:28 (p 1 of 2)				
Test Code:	EAFNO3DC | 20-3984-3903				
	Nautilus Environmental				
Analysis ID:	07-1949-9552	**Endpoint:**	~~Mean Dry Weight-mg~~ Volk Sac Score	**CETIS Version:**	CETISv1.8.0
Analyzed:	25 Apr-12 11:23	**Analysis:**	Parametric-Control vs Ord.Treatments	**Official Results:**	Yes
Batch ID:	15-4037-2816	**Test Type:**	Growth-Survival ~~(7d)~~ 130d	**Analyst:**	
Start Date:	19 Nov-11 10:45	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	~~Hard Synthetic Water~~ Dechlorinated Municipal Tap Water
Ending Date:	30 Mar-12 10:30	**Species:**	~~Oncorhynchus mykiss~~ S. namaycush	**Brine:**	
Duration:	132d	**Source:**	~~Fraser Valley Trout Hatchery~~ Wild	**Age:**	
Sample ID:	09-0315-5950	**Code:**	Dechlor-Nitrate	**Client:**	Rescan
Sample Date:	~~19 Nov-11~~ n/a	**Material:**	NO3	**Project:**	
Receive Date:	~~19 Nov-11~~ n/a	**Source:**	Rescan		
Sample Age:	~~11h~~ n/a	**Station:**	Dechlor		

Data Transform	Zeta	Alt Hyp	MC Trials	NOEL	LOEL	TOEL	TU	PMSD
Untransformed	0	C < T	Not Run	11.03	21.05	15.24		235.0%

Williams' Multiple Comparison Test

Control	vs	Conc-mg N/L	Test Stat	Critical	DF	MSD	P-Value	Decision(α:5%)
Negative Control		2.87	1.416	1.734	6	0.2653	>0.05	Non-Significant Effect
		5.42	2.217	1.818	6	0.2782	>0.05	Non-Significant Effect
		11.03	1.368	1.845	6	0.2823	>0.05	Non-Significant Effect
		21.05*	2.128	1.859	6	0.2845	<0.05	Significant Effect
		43.45*	2.488	1.867	6	0.2857	<0.05	Significant Effect

Auxiliary Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:5%)
Control Trend		4		0.3043	Non-significant Trend in Controls

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.8979139	0.1795828	5	3.835	0.0153	Significant Effect
Error	0.8429371	0.04682984	18			
Total	1.740851	0.2264126	23			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	7.204	15.09	0.2059	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9747	0.884	0.7815	Normal Distribution

Mean ~~Dry Weight-mg~~ Summary

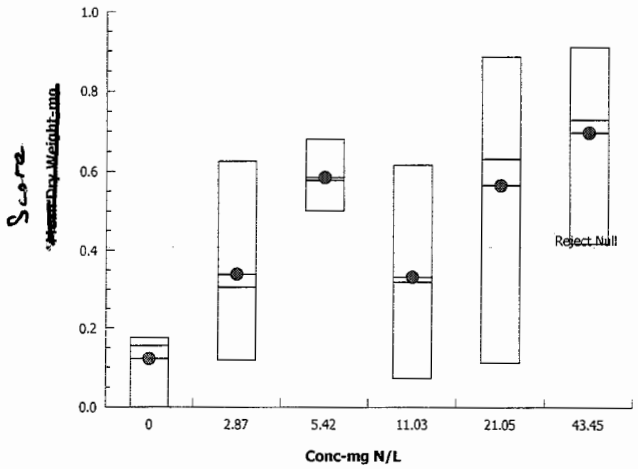
Conc-mg N/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	4	0.1216	0.0905	0.1527	0	0.1765	0.0409	0.08181	67.27%	0.0%
2.87		4	0.3383	0.2529	0.4236	0.1176	0.625	0.1122	0.2244	66.33%	-178.1%
5.42		4	0.5835	0.5529	0.614	0.5	0.68	0.04013	0.08026	13.76%	-379.8%
11.03		4	0.331	0.2455	0.4165	0.07143	0.6154	0.1124	0.2248	67.9%	-172.1%
21.05		4	0.5636	0.4388	0.6885	0.1111	0.8846	0.1641	0.3282	58.23%	-363.5%
43.45		4	0.695	0.6024	0.7876	0.4167	0.9091	0.1217	0.2434	35.02%	-471.4%

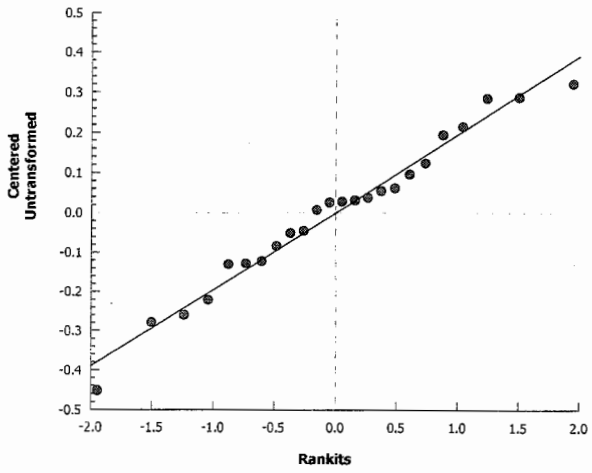
Analysis ID: 07-1949-9552 **Endpoint:** ~~Mean Dry Weight-mg~~ Volk Sac Score **CETIS Version:** CETISv1.8.0
Analyzed: 25 Apr-12 11:23 **Analysis:** Parametric-Control vs Ord.Treatments **Official Results:** Yes

Mean Dry Weight-mg Detail

Conc-mg N/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	0	0.15	0.1765	0.16
2.87		0.2105	0.1176	0.625	0.4
5.42		0.5385	0.5	0.6154	0.68
11.03		0.3571	0.07143	0.6154	0.28
21.05		0.1111	0.5714	0.6875	0.8846
43.45		0.8889	0.5652	0.9091	0.4167

Graphics





CETIS Analytical Report

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	06-1565-9793	**Endpoint:**	~~Proportion Normal~~ JMB % Swim-up	**CETIS Version:**	CETISv1.8.0
Analyzed:	22 May-12 10:29	**Analysis:**	Linear Interpolation (ICPIN) (of remaining)	**Official Results:**	Yes
Batch ID:	12-0284-1969	**Test Type:**	Development-Survival	**Analyst:**	
Start Date:	19 Nov-11 11:45	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Dechlorinated Tap Water
Ending Date:	30 Mar-12 10:30	**Species:**	~~Oncorhynchus mykiss~~ JMB S. namaycush	**Brine:**	
Duration:	131d 23h	**Source:**	Field Collected	**Age:**	
Sample ID:	15-8337-7726	**Code:**	LTEAF	**Client:**	Rescan
Sample Date:	~~18 May-12 12:13~~ JMB n/a	**Material:**	Sodium Nitrate (NO_3-N)	**Project:**	
Receive Date:	~~18 May-12 12:13~~ JMB n/a	**Source:**	Rescan		
Sample Age:	N/A	**Station:**			

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Log(X+1)	Linear	2.082E+09	200	Yes	Two-Point Interpolation

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Control Trend	Mann-Kendall Trend	-4		0.3043	Non-significant Trend in Controls

Point Estimates

Level	mg/L NO_3-N	95% LCL	95% UCL
EC5	0.4628	0.1062	4.562
EC10	1.14	0.1759	4.786
EC15	2.13	0.1719	4.978
EC20	3.19	0.2681	5.871
EC25	3.965	0.7104	16.63
EC40	13.92	N/A	40.3
EC50	18.92	11.33	N/A

~~Proportion Normal~~ % Swim-up JMB Summary — Calculated Variate(A/B)

Conc-mg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.8784	0.8235	1	0.0409	0.08181	9.31%	0.0%	64	74
2.9		4	0.693	0.5	0.8824	0.08711	0.1742	25.14%	21.11%	49	69
5.4		4	0.509	0.36	0.7143	0.07454	0.1491	29.29%	42.06%	35	72
11		4	0.669	0.3846	0.9286	0.1124	0.2247	33.59%	23.84%	45	66
21		4	0.4748	0.2692	0.8889	0.1421	0.2841	59.84%	45.95%	29	72
43.4		4	0.3252	0.09091	0.5833	0.1212	0.2424	74.55%	62.98%	23	73

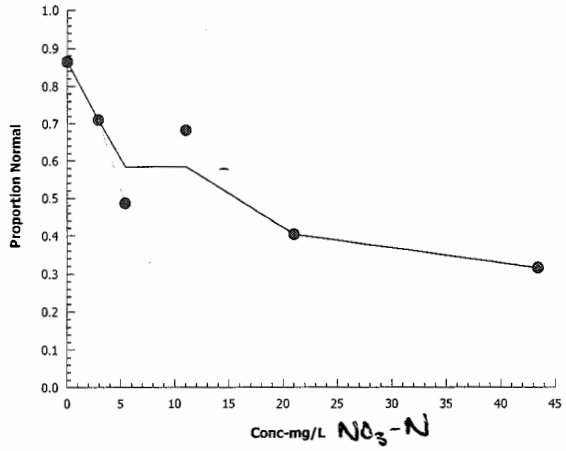
Proportion Normal Detail

Conc-mg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.85	0.8235	0.84
2.9		0.7895	0.8824	0.5	0.6
5.4		0.4615	0.5	0.7143	0.36
11		0.6429	0.9286	0.3846	0.72
21		0.8889	0.4286	0.3125	0.2692
43.4		0.5833	0.4783	0.09091	0.1481

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	06-1565-9793	**Endpoint:**	Proportion Normal	**CETIS Version:**	CETISv1.8.0
Analyzed:	22 May-12 10:29	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



CETIS Analytical Report

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID:	14-8535-5280	**Endpoint:**	~~Proportion-Normal~~ JAB % Swim-up (of remaining)	**CETIS Version:**	CETISv1.8.0
Analyzed:	22 May-12 10:29	**Analysis:**	Linear Regression (MLE)	**Official Results:**	Yes
Batch ID:	12-0284-1969	**Test Type:**	Development-Survival	**Analyst:**	
Start Date:	19 Nov-11 11:45	**Protocol:**	EC/EPS 1/RM/28	**Diluent:**	Dechlorinated Tap Water
Ending Date:	30 Mar-12 10:30	**Species:**	~~Oncorhynchus mykiss~~ JAB Steamgeush	**Brine:**	
Duration:	131d 23h	**Source:**	Field Collected	**Age:**	
Sample ID:	15-8337-7726	**Code:**	LTEAF	**Client:**	Rescan
Sample Date:	~~18 May-12 12:13~~ JAB	**Material:**	Sodium Nitrate	**Project:**	
Receive Date:	~~18 May-12 12:13~~ JAB	**Source:**	Rescan		
Sample Age:	N/A	**Station:**			

Linear Regression Options

Model Function	Threshold Option	Threshold	Optimized	Pooled	Het Corr	Weighted
Log-Normal [NED=A+B*log(X)]	Control Threshold	0.1351351	Yes	No	Yes	Yes

Regression Summary

Iters	LL	AICc	BIC	Mu	Sigma	Adj R2	F Stat	Critical	P-Value	Decision(α:5%)
4	-232.9	151.9	474.8	4.086	1.083	0.1408	1.519	3.682	0.2508	Non-Significant Lack of Fit

Point Estimates

Level	mg/L NO_3-N	95% LCL	95% UCL
EC10	0.8704	2.834E-10	4.236
EC15	1.604	4.389E-08	6.173
EC20	2.606	2.36E-06	8.518
EC25	3.953	0.0000698	11.59
EC40	11.3	0.2138	41.83
EC50	21.25	4.625	523.3

Regression Parameters

Parameter	Estimate	Std Error	95% LCL	95% UCL	t Stat	P-Value	Decision(α:5%)
Threshold	0.1366	0.07151	-0.01432	0.2874	1.91	0.0732	Non-Significant Parameter
Slope	0.9236	0.3852	0.1108	1.736	2.397	0.0283	Significant Parameter
Intercept	3.774	0.475	2.772	4.776	7.946	<0.0001	Significant Parameter

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Model	16.487	16.487	1	5.112	0.0372	Significant
Lack of Fit	9.233405	4.616703	2	1.519	0.2508	Non-Significant
Pure Error	45.58964	3.039309	15			
Residual	54.82304	3.224885	17			

Residual Analysis

Attribute	Method	Test Stat	Critical	P-Value	Decision(α:5%)
Goodness-of-Fit	Pearson Chi-Sq GOF	54.82	27.59	<0.0001	Significant Heterogenity
	Likelihood Ratio GOF	59.02	27.59	<0.0001	Significant Heterogenity
Variances	Bartlett Equality of Variance	0.6745	9.488	0.9544	Equal Variances
	Mod Levene Equality of Variance	0.5666	3.056	0.6907	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9344	0.9044	0.1879	Normal Distribution
	Anderson-Darling A2 Normality	0.6628	2.492	0.0838	Normal Distribution
Control Trend	Mann-Kendall Trend	-4		0.3043	Non-significant Trend in Controls

Salmonid Embryo Survival and Development Test — **Nautilus Environmental**

Analysis ID: 14-8535-5280 **Endpoint:** Proportion Normal **CETIS Version:** CETISv1.8.0
Analyzed: 22 May-12 10:29 **Analysis:** Linear Regression (MLE) **Official Results:** Yes

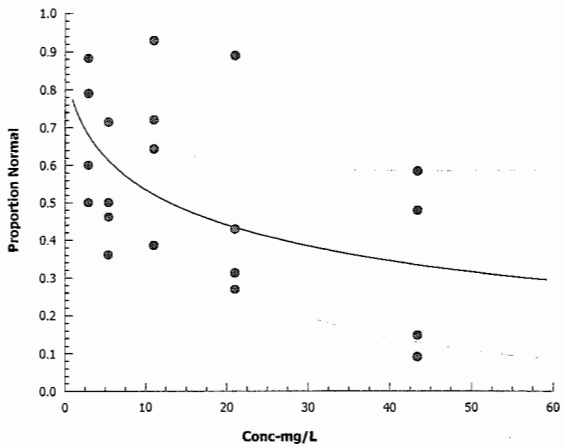
Proportion Normal Summary — **Calculated Variate(A/B)**

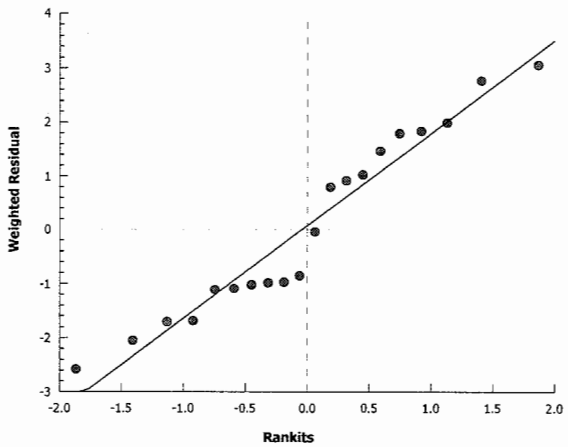
Conc-mg/L	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	4	0.8784	0.8235	1	0.0409	0.08181	9.31%	0.0%	64	74
2.9		4	0.693	0.5	0.8824	0.08711	0.1742	25.14%	21.11%	49	69
5.4		4	0.509	0.36	0.7143	0.07454	0.1491	29.29%	42.06%	35	72
11		4	0.669	0.3846	0.9286	0.1124	0.2247	33.59%	23.84%	45	66
21		4	0.4748	0.2692	0.8889	0.1421	0.2841	59.84%	45.95%	29	72
43.4		4	0.3252	0.09091	0.5833	0.1212	0.2424	74.55%	62.98%	23	73

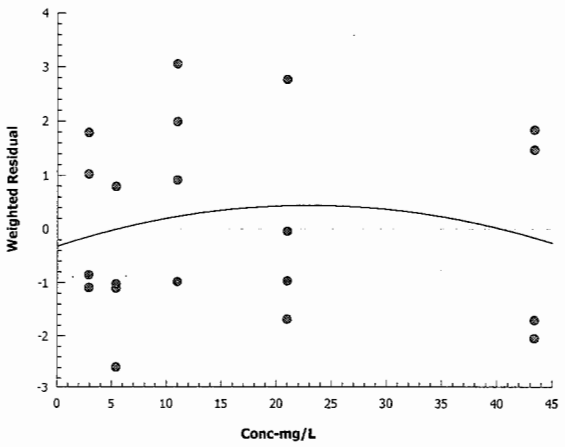
Proportion Normal Detail

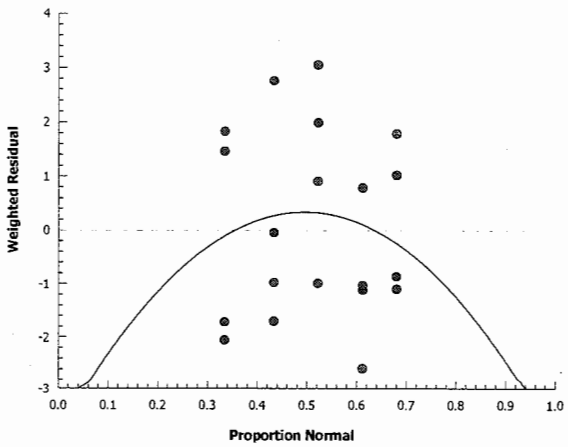
Conc-mg/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Negative Control	1	0.85	0.8235	0.84
2.9		0.7895	0.8824	0.5	0.6
5.4		0.4615	0.5	0.7143	0.36
11		0.6429	0.9286	0.3846	0.72
21		0.8889	0.4286	0.3125	0.2692
43.4		0.5833	0.4783	0.09091	0.1481

Graphics Log-Normal [NED=A+B*log(X)]









Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Dechlor-Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

~~Treatments~~ JAB mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Eggs/ Embryos Alevins	Total Undeveloped/ Unhatched Embryos	Total No. Alevins	Total Exposed
		1	2	4 JAB	6 JAB	5	6	9 JAB				
Control	1		0	0	0			0	0	0	0	30
	2											
	3											
	4											
2.5	1											
	2											
	3											
	4											
5	1											
	2											
	3											
	4											
10	1											
	2											
	3											
	4											
20	1											
	2											
	3											
	4											
40	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials			JAB	JAB	JAB			JAB	JAB	JAB	JAB	JAB

Comments:

Reviewed by:

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Dechlor Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @1045h
Stop Date: Mar 30/12
Test Species: S. Namaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Total No. ~~Fry~~ JAB Hatched	Total Exposed
		11	16	18	20	23	25	27				
Control	1	0	0	0	0	0	1	0	1	0	0	30
	2	0	0	0	0	0	0	0	0			
	3	0	1 (a)	0	1	2	0	0	4			
	4	0	0	0	0	1	1	0	2			
2.5	1	0	0	0	0	0	0	0	0			
	2	0	0	0	0	0	0	0	0			
	3	0	0 (a)	0	2	2	2	0	6			
	4	0	0	0	1	0	0	0	1			
5	1	1	0	0	0	0	0	0	1			
	2	0	0	0	0	0	0	0	0			
	3	0	0 (a)	3	1	0	2	0	6			
	4	0	0	1	0	0	0	0	1			
10	1	1	0	0	0	0	0	0	1			
	2	0	0	1	0	1	0	0	2			
	3	0	0 (a)	0	2	0	2	0	4			
	4	0	0	0	0	0	0	0	0			
20	1	0	0	0	0	2	0	0	2			
	2	0	0	0	0	0	0	0	0			
	3	0	1 (a)	1	0	2	1	0	JAB 5			
	4	0	0	0	1	1	0	0	2			
40	1	0	0	0	0	0	0	0	0			
	2	0	0	0	0	0	0	0	0			
	3	0	0 (a)	0	2	1	6	0	9			
	4	0	0	0	1	0	0	0	1			
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments: a- some white dots

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Dechlor-Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. nameycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Total No. ~~Fry~~ Hatched	Total Exposed
		36	32	34	38	39	41	45				
Control	1	0	0	0	0	0	1	0	1	0	0	30
	2	0	0	0	0	0	0	0	0			
	3	1	0	0	1	0	1	0	3			
	4	0	0	0	0	0	0	0	0			
2.5	1	0	0	0	0	0	0	1	1			
	2	0	0	0	1	0	0	0	1			
	3	1	1	0	2	0	0	0	4			
	4	0	0	0	0	0	0	0	0			
5	1	0	0	0	1	0	1	0	2			
	2	0	0	0	0	0	0	0	0			
	3	0	0	0	0	0	3	0	3			
	4	0	0	0	0	0	0	0	0			
10	1	0	0	0	0	0	0	1	1			
	2	0	0	0	1	0	0	0	1			
	3	1	0	0	3	0	1	0	5			
	4	0	0	0	0	0	0	0	0			
20	1	0	1	0	1	0	1	2	5			
	2	0	0	0	0	0	0	0	0			
	3	0	1	0	1	0	1	0	3			
	4	0	0	0	0	0	0	0	0			
40	1	0	0	0	0	0	0	0	0			
	2	0	0	0	0	0	0	0	0			
	3	1	1	0	0	0	1	1	4			
	4	0	0	0	0	0	0	0	0			
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	

Comments:

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Dechlor - Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Total No. JAB ~~Fry~~ Hatched	Total Exposed
		46	48	51	53	55	58	60				
Control	1	0	0	0	2	1	3	0	6	0	0	30
	2	0	0	0	0	0	0	0	0			
	3	0	0	1	0	0	0	1	2			
	4	0	0	0	0	0	0	0	0			
2.5	1	0	0	0	0	2	3	0	5			
	2	0	0	0	1	0	1	2	4			
	3	1	0	0	0	0	1	0	2			
	4	0	0	0	0	0	0	0	0			
5	1	0	0	0	1	4	2	0	7			
	2	0	1	0	1	0	3	0	5			
	3	0	0	0	0	0	1	0	1			
	4	0	0	0	0	0	0	0	0			
10	1	2	1	1	1	0	2	0	7			
	2	0	0	0	0	0	2	2	4			
	3	0	0	1	1	0	0	0	2			
	4	0	0	0	0	0	0	1	1			
20	1	1	1	1	4	1	2	0	10			
	2	0	0	0	0	0	4	2	6			
	3	0	0	0	1	0	0	0	1			
	4	0	0	0	0	0	0	0	0			
40	1	1	1	2	4	0	3	2	13			
	2	0	0	0	0	1	1	2	4			
	3	0	0	1	1	0	0	0	2			
	4	0	0	0	0	0	0	0	0			
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments:

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Dechlor-Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. ramaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Day 74 Total No. JAB ~~Fry~~ Hatched	Total Exposed
		62	65	67	Undeveloped 67	68	72	74				
Control	1	2	0	1	1	0	0	0	4	0	3	30
	2	3	4	0	0	0	0	0	7		0	
	3	0	0	0	0	0	0	0	0		0	
	4	0	0	1	0	0	0	0	1		2	
2.5	1	0	1	0	0	0	0	0	1		0	
	2	3	~~JAB~~ 1	0	2	0	0	0	6		0	
	3	1	0	1	0	0	0	0	2		1	
	4	1	1	0	3	0	0	0	5		2	
5	1	2	1	0	0	0	0	0	3		1	
	2	1	2	0	2	0	0	0	~~JAB~~ 5		0	
	3	0	0	0	0	0	0	0	0		0	
	4	1	1	0	1	0	0	0	3		3	
10	1	1	0	1	1	0	0	0	3		0	
	2	1	3	0	3	0	0	0	7		0	
	3	0	0	0	0	0	0	0	0		0	
	4	0	1	0	1	0	0	0	2		5	
20	1	0	1	0	0	0	0	0	1		0	
	2	1	1	0	1	0	0	0	3		6	
	3	0	0	0	0	0	0	0	0		0	
	4	0	0	0	0	0	0	0	0		2	
40	1	0	0	0	1	0	0	0	1		0	
	2	1	2	0	0	0	0	0	3		0	
	3	0	0	1	0	0	0	0	1		0	
	4	0	0	0	0	0	0	0	0		3	
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments:

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Dechlor - Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Day 93 Total No. ~~Fry~~ Hatched	Total Exposed
		79	81	84	86	88	90	93				
Control	1	0	0	1	0	1 ⓑ	0	0	2	0	~~JAB 20~~ 16	30
	2	0	0	1	0	0 ⓑ	1	0	2		~~JAB 22~~ 21	
	3	0	0	0	0	1 ⓑ	0	0	1		~~JAB 15~~ 18	
	4	0	0	0	0	0	0	0	0		~~JAB 17~~ 27	
2.5	1	0	0	0	0	0	1	0	1		~~JAB 18~~ 21	
	2	0	0	0	0	0	1	0	1		~~JAB 17~~ 18	
	3	0	0	0	0	2	0	0	2		~~JAB 15~~ 10	
	4	0	0	0	0	0	0	0	0		~~JAB 26~~ 25	
5	1	0	0	0	0	0	0	0	0		~~JAB 18~~ 16	
	2	0	0	0	0	0	0	0	0		~~JAB 22~~ 19	
	3	0	0	0	0	1	0	0	1		~~JAB 14~~ 16	
	4	0	0	0	0	0	0	0	0		~~JAB 27~~ 26	
10	1	0	0	0	0	0	0	0	0		~~JAB 16~~ 18	
	2	0	0	0	0	0	0	0	0		16	
	3	0	0	5 ⓐ	0	1	0	0	6		13	
	4	0	0	0	0	1	0	0	1		26	
20	1	0	0	0	0	0	0	0	0		11	
	2	0	0	0	0	0	0	0	0		21	
	3	0	0	0	0	0	1	0	1		18	
	4	0	0	0	0	0	0	0	0		28	
40	1	0	0	~~JAB 0~~ 1	~~JAB 0~~ 2	~~JAB 1~~	0	0	~~JAB 0~~ 4		12 ~~29~~ JAB	
	2	0	0	0	0	0	0	0	0		23	
	3	0	0	0	0	0	0	0	0		14	
	4	0	0	0 ~~1~~ JAB	~~2~~ JAB	~~1~~ JAB 0	0	0	~~JAB 1~~ 0		29 ~~+2~~ JAB	
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments: ⓐ 1 of 5 hatched (plaque) ⓑ hatched

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Nitrate-Dechlor
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L NO_3-N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Day 109 Total No. ~~Fry~~ Hatched	Total Exposed
		95	97	100	102	104	107	109				
Control	1	0	0	0	0	0	0	1	1	0	14	30
	2	0	0	0	0			0	0		21	
	3	0	0	0	1			0	1		19	
	4	0	0	0	0			0	0		27	
2.5	1	0	0	0	0			0	0		21	
	2	0	0	0	0			0	0		18	
	3	2	0	1	1			0	4		10	
	4	0	0	0	0			0	0		25	
5	1	1	0	1	0			0	2		15	
	2	0	0	0	0			0	0		20	
	3	1	0	1	1			1	4		15	
	4	0	0	0	0			0	0		26	
10	1	1	0	1	0			0	2		17	
	2	0	0	0	0			1	1		15	
	3	1	0	0	0			0	1		13	
	4	0	0	0	0			0	0		26	
20	1	1	0	0	0			0	1		11	
	2	0	0	0	0			0	0		21	
	3	0	0	0	2			0	2		18	
	4	0	0	0	1			0	1		27	
40	1	0	0	0	0			0	0		12 ~~29~~ JAB	
	2	0	0	0	0			0	0		23	
	3	0	0	0	1			1	2		12	
	4	0	0	0	0			0	0		29 ~~12~~ JAB	
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments:

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Dechlor-Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Day 125 Total No. ~~Fry~~ JAB Hatched	Total Exposed
		111	114	116	118	121	123	125				
Control	1	0	0	1	0	0	0	0	1	0	13	30
	2	0	0	0	0	0	1	0	1		20	
	3	0	1	1	0	0	0	0	2		17	
	4	0	0	1	0	0	1	0	2		25	
2.5	1	0	0	1	0	0	1	0	2		19	
	2	0	0	0	0	0	1	0	1		17	
	3	0	0	1	0	0	0	0	1		9	
	4	0	0	0	0	0	0	0	0		25	
5	1	1	0	0	0	0	0	0	1		14	
	2	0	0	0	0	0	0	0	0		20	
	3	0	1	0	0	0	0	0	1		14	
	4	0	0	1	0	0	0	0	1		25	
10	1	0	1	1	0	0	1	0	3		14	
	2	0	0	1	0	0	0	0	1		14	
	3	0	0	0	0	0	0	0	0		13	
	4	0	0	0	0	0	0	1	1		25	
20	1	0	0	1	0	0	1	0	2		9	
	2	0	0	0	0	0	0	JAB ~~1~~ 0	~~1~~ JAB 0		JAB ~~20~~ 21	
	3	0	1	1	0	0	0	0	2		16	
	4	0	0	0	0	0	0	JAB ~~2~~ 1	JAB ~~2~~ 1		JAB ~~27~~ 26	
40	1	0	~~1~~ 0	~~1~~ 0	0	0	0	0	JAB ~~2~~ 0		JAB ~~27~~ 12	
	2	0	0	0	0	0	0	0	0		23	
	3	0	0	0	0	0	1	0	1		11	
	4	0	JAB ~~1~~ 1	JAB ~~1~~ 1	0	0	0	0	JAB ~~2~~ 2		JAB ~~12~~ 27	
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments:

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Dechlor-Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Total No. Fry	Total Exposed
		128	130	132								
Control	1	0	1	0					1	0	12	30
	2	0	0	0					0		20	
	3	0	0	0					0		17	
	4	0	0	0					0		25	
2.5	1	0	0	0					0		19	
	2	0	0	0					0		17	
	3	0	0	0					0		9	
	4	0	0	0					0		25	
5	1	0	0	1					1		13	
	2	0	0	0					0		20	
	3	0	0	0					0		14	
	4	0	0	0					0		25	
10	1	0	0	0					0		14	
	2	0	0	0					0		14	
	3	0	0	0					0		13	
	4	0	0	0					0		25	
20	1	0	0	0					0		9	
	2	0	0	0					0		21	
	3	0	0	0					0		16	
	4	0	0	0					0		26	
40	1	0	0	0					0		JAB ~~27~~ 12	
	2	0	0	0					0		23	
	3	0	0	0					0		11	
	4	0	0	0					0		JAB ~~27~~ 27	
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB					JAB	JAB	JAB	JAB

Comments:

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality
Hatched

Client: Rescan
Sample ID: Dechlor - Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Hatched							Total Dead Fish	Total Undeveloped	Total No. Fry	Total Exposed
		72	74	76	~~78~~ 79	81	84	86				
Control	1	0	3	4	4	5	6	7				
	2	0	0	10	14 (a)	14	20	21				
	3	0	0	2	2	2	3	17 (a)				
	4	0	2	2	2	15 (a)	16	22				
2.5	1	0	0	1	1	1	17 (a)	17				
	2	0	0	3	4	4	4	15 (a)				
	3	0	1	1	1	1	9 (a)	10				
	4	0	2	5	5	5	5	24 (a)				
5	1	0	1	2	2	6	9 (a)	10				
	2	0	0	0	0	1	1	2				
	3	0	0	3	3	4	7	10 (a)				
	4	1	3	3	3	3	5	8				
10	1	0	0	0	4	5	7	7				
	2	0	0	5	6	6	6	16 (a)				
	3	0	0	1	1	1	1	13 (a)				
	4	4	5	5	6	6	17 (a)	23				
20	1	0	0	0	1	1	5	7 (a)				
	2	0	6	9	9	9	9	14 (a)				
	3	0	0	0	1	1	2	12 (a)				
	4	2	2	6	6	7	17 (a)	22				
40	1	0	0	0	3	3	20 (a)	28				
	2	0	0	0	0	3	3	7				
	3	0	0	0	1	1	12 (a)	13				
	4	1	3	3	0	1	0	1				
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB				

Comments: (a) - >50% hatched

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Hatched

Client: Rescan
Sample ID: Dechlor - Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Hatched							Total Dead Fish	Total Undeveloped	Total No. Fry	Total Exposed
		88	90	93	104 (1) Norm	104 (2) Abn						
Control	1	16 (a)	16	16/16	12	2						
	2	21	22	21/21	20	1						
	3	17	18	18/19	17	2						
	4	27	27	27/27	25	2						
2.5	1	21	22	21/21	19	2						
	2	17	19	18/18	17	1						
	3	10	10	10/14	8	2						
	4	24	25	25/25	25	0						
5	1	16	16	16/17	14	1						
	2	6	19 (a)	19/20	19	1						
	3	16	16	16/19	14	1						
	4	24 (a)	26	26/26	24	2						
10	1	18 (a)	18	18/19	14	3						
	2	16	16	16/16	14	1						
	3	13	13	13/14	13	0						
	4	24	25	26/26	25	1						
20	1	11	11	11/12	9	2						
	2	20	21	21/21	21	0						
	3	18	19	18/20	16	2						
	4	27	27	29/29	27	0						
40	JAB 4	29	29	29/29	27	2						
	2	23 (a)	23	23/23	23	0						
	3	14	14	14/14	11	1						
	JAB 1	12 (a)	12	13/12	12	0						
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB						

Comments:
(a) ~ 50 % hatched
(1) Normal alevins
(2) Abnormal alevins

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Abnormals

Client: Rescan
Sample ID: Dechlor-Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: March 30/12
Test Species: S. namaycush

mg/L N	Rep	Day 67 Remains	Day 67 Abn						Total Dead Fish	Total Undeveloped	Total No. Fry	Total Exposed
Control	1	18	1									
	2	23	1									
	3	21	1									
	4	27	0									
2.5	1	22	1									
	2	19	1									
	3	16	4									
	4	25	0									
5	1	17	0									
	2	20	0									
	3	20	4									
	4	26	0									
10	1	19	0									
	2	16	0									
	3	19	5									
	4	27	1									
20	1	12	0									
	2	~~25~~	0									
	3	21	2									
	4	28	1									
40	1	16	3									
	2	23	0									
	3	14	0									
	4	29	0									
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials												

Comments:

Reviewed by:

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Dechlor Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: S. namaycush

Mg/L NO_3-N Treatment	Days 0	2		4		6		9		11		13		16	
Control DC	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	~~Init~~	~~Final~~
Temperature (°C)	7.0	6.5	6.5	6.0	7.0	6.0	6.5	6.5	6.5	6.0	6.5	6.5	7.0	6.5	
DO (mg/L)	12.1	11.1	11.1	11.7	11.4	11.4	11.6	12.3	12.3	12.4	12.0	12.2	11.9	12.2	
pH	6.7	6.9	7.0	6.9	6.8	7.2	7.1	6.9	6.9	7.3	7.0	6.9	6.8	7.0	
Cond. (µS/cm)	33	45	34	35	32	33	33	34	33	36	34	33	33	33	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Treatment	Days 0	2		4		6		9		11		13		16	
DC 2.5 mg/L N	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	~~Init~~	~~Final~~
Temperature (°C)	7.0	6.0	7.0	6.0	7.0	6.0	6.5	6.5	7.0	6.0	7.0	6.0	7.0	6.5	
DO (mg/L)	12.0	11.1	11.2	11.8	11.4	11.4	11.5	12.3	12.3	12.4	12.0	12.2	12.0	12.1	
pH	6.7	6.9	6.9	6.9	6.8	7.1	7.0	6.9	7.2	7.3	7.0	6.8	6.8	7.0	
Cond. (µS/cm)	57	69	59	60	55	57	55	56	55	57	54	56	55.0	54	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Treatment	Days 0	2		4		6		9		11		13		16	
DC 5.0	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	~~Init~~	~~Final~~
Temperature (°C)	7.0	6.5	7.0	6.0	7.0	6.0	6.5	6.5	6.5	6.0	7.0	6.0	7.0	6.5	
DO (mg/L)	11.9	11.1	11.3	11.8	11.6	11.5	11.5	12.3	12.3	12.4	12.0	12.4	12.0	12.1	
pH	6.7	7.0	6.8	6.9	6.8	7.0	6.9	6.9	7.1	7.3	7.0	6.9	6.8	7.0	
Cond. (µS/cm)	79	94	82	85	77	80	77	79	78	80	76	78	78	75	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Treatment	Days 0	2		4		6		9		11		13		16	
DC 10.0	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	~~Init~~	~~Final~~
Temperature (°C)	7.0	6.5	7.0	6.5	7.0	6.0	6.5	6.0	6.5	6.0	7.0	6.0	7.0	6.5	
DO (mg/L)	11.9	11.0	11.2	11.7	11.5	11.6	11.5	12.4	12.3	12.4	12.0	12.5	12.1	12.0	
pH	6.8	7.0	6.8	6.9	6.8	7.1	6.9	6.9	7.1	7.3	7.0	6.8	6.8	7.0	
Cond. (µS/cm)	123	138	126	127	119	121	121	124	124	125	116	122	123	115	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

DO meter: DO-1/DO-2
pH meter: pH-1/pH-2
Conductivity meter: C-1/C-2

	Dechlor Control-1	Dechlor Control-2	Dechlor Control-3	Dechlor Control-4
Hardness*	12			
Alkalinity*	7			

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [signature]
Date reviewed: 15 May 2012

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Dechlor Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: S. namaycush

Treatment	Days													
	0	2		4		6		9		11		13		16
DC 20 mg/L N	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	~~Init~~ Final
Temperature (°C)	7.0	6.5	7.0	6.5	7.0	6.0	6.5	6.0	6.5	6.0	7.0	6.5	7.0	6.5
DO (mg/L)	12.0	11.1	11.1	11.7	11.6	11.4	11.5	12.4	12.3	12.4	12.0	12.4	12.1	11.9
pH	6.8	7.0	6.8	6.9	6.8	7.1	6.9	6.9	7.1	7.3	7.0	6.8	6.8	7.0
Cond. (µS/cm)	211	225	212	216	202	208	206	211	212	214	207	211	214	203
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Treatment	Days													
	0	2		4		6		9		11		13		16
DC 40	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	~~Init~~ Final
Temperature (°C)	7.0	6.5	7.0	6.5	7.0	6.0	6.5	6.0	6.5	6.0	7.0	6.0	7.0	6.5
DO (mg/L)	11.9	11.0	11.1	11.7	11.4	11.3	11.5	12.4	12.3	12.4	12.0	12.4	12.0	11.8
pH	6.8	~~6.~~ 7.0	6.7	6.9	6.9	7.1	7.0	6.9	7.1	7.3	7.0	6.7	6.8	7.0
Cond. (µS/cm)	385	~~380~~ 379	380	394	379	385	386	341	388	390	383	389	395	~~364~~ 364
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Treatment	Days													
	0	1		2		3		4		5		6		7
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)	~~364~~													
Initials														

Treatment	Days													
	0	1		2		3		4		5		6		7
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 / DO-2 pH meter: pH-1 / pH-2 Conductivity meter: C-1 / C-2

	Dechlor Control-1	Dechlor Control-2	Dechlor Control-3	Dechlor Control-4
Hardness*	12			
Alkalinity*	7			

* mg/L as CaCO3

Analysts: JAB

Reviewed by: JL

Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Descan
Sample ID: Dechlor Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: S. namaycush

Concentration: Control Dechlor	Days													
	16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.0	7.0	6.0	7.0	6.5	7.0	6.5	7.0	6.0	7.0
DO (mg/L)	12.4	11.8	11.9	12.2	12.4	12.1	12.4	12.4	12.4	11.7	11.9	12.1	12.3	11.6
pH	7.1	7.1	7.1	6.9	6.9	7.1	7.0	7.0	7.0	7.1	7.0	6.9	7.0	7.1
Cond. (µS/cm)	34	31	31	31	31	32	33	32	33	32	33	32	32	33
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

mg/L N Concentration: DC 2.5	Days													
	16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	7.0	6.5	6.5	6.0	7.0	6.0	7.0	6.5	7.0	6.0	7.0	6.0	7.0
DO (mg/L)	12.4	11.7	12.0	12.3	12.4	12.0	12.4	12.4	12.4	11.8	11.9	12.1	12.5	11.6
pH	7.1	7.0	7.1	6.8	6.9	7.1	7.0	7.0	7.0	7.1	7.1	6.9	7.0	7.1
Cond. (µS/cm)	56	54	54	54	54	54	55	53	56	53	54	53	55	54
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: DC 5.0	Days													
	16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	7.0	6.0	6.5	6.0	7.0	6.0	7.0	6.5	7.0	6.5	7.0	6.0	7.0
DO (mg/L)	12.1	11.9	11.8	12.2	12.4	12.0	12.4	12.4	12.4	11.7	11.9	12.1	12.4	11.6
pH	7.1	7.0	7.2	6.8	6.9	7.1	7.0	7.0	7.0	7.1	7.1	6.9	7.0	7.1
Cond. (µS/cm)	79	77	77	75	77	76	77	74	76	76	78	75	78	76
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: DC 10	Days													
	16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.7	6.0	6.5	6.0	7.0	6.0	7.0	6.5	7.0	6.0	7.0	6.0	7.0
DO (mg/L)	12.4	11.8	11.9	12.2	12.3	12.0	12.4	12.4	12.4	11.7	12.0	12.1	12.4	11.6
pH	7.0	7.0	7.1	6.8	6.8	7.1	7.1	7.0	7.0	7.0	7.1	6.9	7.1	7.1
Cond. (µS/cm)	125	120	122	117	121	120	121	119	121	119	120	117	121	120
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1/DO-2 pH meter: pH-1/pH-2 Conductivity meter: C-1/C-2

	Control	Control-2		
Hardness*	12	5		
Alkalinity*	7	10		

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Resean
Sample ID: Dechlor Nitrate
Work Order #: nca

Start Date & Time: Nov 19/11@1045h
Stop Date & Time: Mar 30/12
Test Species: S. namaycush

mg/L NO_3-N Concentration DC 20	Days													
	16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	7.0	6.0	6.5	6.0	7.0	6.0	7.0	6.0	7.0	6.5	7.0	6.0	7.0
DO (mg/L)	12.3	11.8	12.0	12.2	12.3	12.0	12.4	12.4	12.4	11.7	11.9	12.1	12.4	11.6
pH	7.1	7.0	7.0	6.9	6.9	7.0	7.1	7.0	7.0	7.0	7.1	6.8	7.0	7.1
Cond. (µS/cm)	216	207	207	204	207	207	208	202	208	210	203	201	211	203
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration DC 40	Days													
	16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	7.0	6.0	6.5	6.0	7.0	6.0	7.0	6.5	7.0	6.5	7.0	6.0	7.0
DO (mg/L)	12.3	11.8	12.0	12.1	12.3	12.0	12.4	12.4	12.4	11.7	12.1	12.1	12.4	11.6
pH	7.0	7.0	7.0	6.9	6.9	7.0	7.1	7.0	7.0	7.0	7.1	6.9	7.0	7.1
Cond. (µS/cm)	399	377	380	373	389	376	379	374	383	374	379	373	381	368
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1/DO-2 pH meter: pH-1/pH-2 Conductivity meter: C-1/C-2

	Control	Control-2		
Hardness*	12	5		
Alkalinity*	7	10		

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Dechlor
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Concentration: Control Dechlor	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	7.0	6.0	7.0	6.5	6.5	6.0	6.5	6.0	6.5	6.0	6.5	6.0	6.5
DO (mg/L)	11.9	11.9	12.2	12.1	12.1	12.2	12.2	11.9	12.3	11.7	12.0	12.2	12.4	12.1
pH	6.8	6.8	6.9	7.0	6.9	6.8	6.9	7.1	7.3	7.0	7.0	7.0	6.9	6.9
Cond. (µS/cm)	33	32	33	32	33	32	32	32	32	31	33	30	32	29
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: mg/L N Dechlor 2.5	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.5	7.0	6.0	7.0	6.5	6.5	6.0	6.5	6.0	6.5	6.0	6.5	6.0	7.0
DO (mg/L)	11.9	11.8	12.2	12.2	12.1	12.2	12.2	12.0	12.3	11.6	12.0	12.2	12.4	12.0
pH	6.8	7.0	6.8	7.0	6.9	6.8	6.9	7.3	7.3	7.0	7.1	7.0	6.9	6.9
Cond. (µS/cm)	53	54	55	53	55	53	54	53	56	51	55	52	51	52
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: Dechlor 5.0	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	7.0	6.0	7.0	6.5	6.5	6.0	6.5	6.0	7.0	6.0	6.5	6.0	6.5
DO (mg/L)	11.9	11.8	12.3	12.2	12.0	12.2	12.2	12.0	12.3	11.8	12.0	12.3	12.4	12.1
pH	6.9	6.9	6.9	6.9	6.9	6.9	6.9	7.3	7.3	7.0	7.0	7.0	7.1	6.9
Cond. (µS/cm)	77	76	78	74	76	74	75	75	77	72	76	74	73	74
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: Dechlor 10	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	7.0	6.5	7.0	7.0 6.5	6.5	6.0	6.5	6.0	7.0	6.0	6.5	6.0	6.5
DO (mg/L)	11.9	11.9	12.4	12.2	12.0	12.2	12.2	12.0	12.3	11.7	12.1	12.3	12.0	12.0
pH	6.8	6.9	6.8	7.0	6.8	6.9	6.8	7.3	7.3	7.0	7.0	7.0	7.1	6.9
Cond. (µS/cm)	117	119	118	116	117	116	119	116	118	115	119	115	114	115
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control	Conc		
Hardness*	5			
Alkalinity*	10			

* mg/L as CaCO3

Analysts: JAB
Reviewed by: TR
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Dechlor
Work Order #: NCa
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

mg/L NO_3-N Concentration DC 20	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.5	7.0	6.0	7.0	6.5	6.5	6.0	6.5	6.0	6.5	6.0	6.5	6.6	6.5
DO (mg/L)	12.0	11.9	12.4	12.1	12.0	12.2	12.2	12.1	12.4	11.8	12.1	12.2	12.4	12.0
pH	6.9	6.8	6.8	7.0	6.8	6.9	6.8	7.3	7.3	7.1	7.1	7.1	7.0	6.9
Cond. (µS/cm)	202	205	209	202	207	201	203	203	209	199	206	203	200	200
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration DC 40	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	7.0	6.5	7.0	6.5	6.5	6.0	6.5	6.0	7.0	6.0	6.5	6.0	6.5
DO (mg/L)	12.0	11.9	12.4	12.1	12.2	12.2	12.2	12.0	12.3	11.9	12.0	12.2	12.4	12.0
pH	6.9	6.8	6.9	6.9	6.8	6.9	6.8	7.3	7.2	7.1	7.0	7.0	7.0	6.9
Cond. (µS/cm)	376	372	377	369	380	368	374	374	373	367	368	370	365	362
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control			
Hardness*	5			
Alkalinity*	10			

* mg/L as CaCO3

Analysts: JAB
Reviewed by:
Date reviewed: 15 May 2012

Sample Description:

Comments:

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Dechlor - Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: S. ramaycush

Dechlor Ctrl	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	7.0	6.0	6.5	6.0	7.0	6.5	7.5	7.0	7.5	7.0	8.0
DO (mg/L)	12.1	12.2	12.2	12.0	12.4	12.1	12.4	11.9	12.2	11.7	11.3	11.3	11.7	11
pH	7.0	6.8	6.9	6.7	6.7	7.0	6.8	6.6	6.8	7.0	6.8	6.9	6.8	6.8
Cond. (µS/cm)	31	30	32	29	31	30	30	29	30	30	32	30	31	29
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

mg/L NO_3-N Dechlor 2.5	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.5	7.0	6.5	6.5	6.0	7.0	6.5	7.5	7.0	7.5	7.0	8.0
DO (mg/L)	12.3	12.2	12.4	11.8	12.3	12.0	12.4	11.9	12.2	11.7	11.4	11.3	11.6	11.2
pH	6.9	6.8	6.9	6.8	6.7	7.0	6.9	6.7	6.8	7.0	6.8	6.9	6.8	6.8
Cond. (µS/cm)	52	51	54	51	53	51	53	50	51	52	52	51	52	50
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DC 5.0 mg/L N	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.5	6.5	6.0	7.0	6.5	6.5	6.5	7.0	6.5	7.5	7.0	7.5	7.5	8.0
DO (mg/L)	12.3	12.2	12.4	11.8	12.3	12.0	12.4	11.9	12.1	11.7	11.4	11.3	11.6	11.1
pH	6.9	6.8	6.9	6.8	6.8	7.0	6.9	6.7	6.8	7.0	6.8	6.9	6.9	6.8
Cond. (µS/cm)	75	73	76	72	74	71	77	71	72	74	74	73	74	71
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DC 10.0	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	7.0	6.5	6.5	6.0	7.0	6.5	7.5	7.0	7.5	7.0	8.0
DO (mg/L)	12.2	12.2	12.3	11.8	12.2	12.0	12.4	11.9	12.1	11.7	11.2	11.3	11.6	11.2
pH	6.9	6.8	6.9	6.8	6.7	7.0	6.8	6.8	6.7	7.0	6.9	6.9	6.8	6.9
Cond. (µS/cm)	116	116	120	113	117	115	119	112	112	119	119	115	118	112
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control	Control-2		
Hardness*	5	11		
Alkalinity*	10	7		

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [signature]

Date reviewed: 15 May 2012

Sample Description:

Comments:

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Dechlor-Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: S. namaycush

DC 20.0 mg/L N	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	7.0	6.5	6.5	6.0	7.0	6.5	7.5	7.0	7.5	7.0	8.0
DO (mg/L)	12.1	12.2	12.4	11.8	12.1	12.0	12.4	11.9	12.2	11.7	11.7	11.3	11.6	11.0
pH	6.9	6.8	6.9	6.8	6.7	7.0	6.8	6.8	6.7	7.0	7.0	6.9	6.9	6.8
Cond. (µS/cm)	203	205	208	195	204	198	201	194	197	204	201	203	202	194
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Dechlor 40.0	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	7.0	6.5	6.5	6.0	7.0	6.5	7.5	7.5	7.5	7.5	8.0
DO (mg/L)	11.9	12.2	12.2	11.8	12.2	12.0	12.4	11.9	12.1	11.7	11.3	11.3	11.6	11.2
pH	6.9	6.8	6.9	6.8	6.7	7.0	6.9	6.8	6.7	7.0	7.0	6.9	6.9	6.8
Cond. (µS/cm)	369	372	374	359	372	365	367	366	363	372	378	368	372	357
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1/DO-2 pH meter: pH-1/pH-2 Conductivity meter: C-1/C-2

	Control	Control-2		
Hardness*	5	11		
Alkalinity*	10	7		

* mg/L as CaCO3

Analysts: JAB

Reviewed by: M

Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Dechlor
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Concentration Control - Dechlor	Days														
	65	67		68		72		74		76		JAB ~~78~~ 79		81
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.0	7.0	7.5	7.0	8.0	7.0	7.5	7.0	7.0	7.5	8.0	7.0	8.0
DO (mg/L)	11.4	11.8	11.7	11.8	12.0	11.2	11.4	11.5	11.6	11.4	11.5	11.3	11.2	11.5
pH	6.9	7.1	6.9	6.8	6.8	6.9	6.8	6.8	6.9	7.1	6.9	6.9	6.9	6.9
Cond. (µS/cm)	31	30	32	30	31	29	31	30	32	29	30	29	30	29
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Dechlor Concentration 2.5 mg/L N	Days														
	65	67		68		72		74		76		JAB ~~78~~ 79		81
	old	new	old	new	old	new	old	new	old	new	old	new	~~7.5~~ old JAB	new
Temperature (°C)	7.0	7.0	7.0	7.5	7.0	8.0	7.0	8.0	7.0	7.0	7.5	8.0	~~8.0~~	8.0
DO (mg/L)	11.3	11.8	11.8	11.8	12.0	11.2	11.4	11.5	11.6	11.4	11.6	11.3	11.4	11.5
pH	6.9	7.1	6.9	6.8	6.9	6.9	6.8	6.8	6.9	7.1	7.0	6.9	6.8	6.8
Cond. (µS/cm)	53	51	54	50	52	51	53	52	53	52	52	52	56	52
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Dechlor Concentration 5.0	Days														
	65	67		68		72		74		76		JAB ~~78~~ 79		81
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.0	7.0	7.5	7.0	8.0	7.0	8.0	7.0	7.0	7.0	8.0	7.5	8.0
DO (mg/L)	11.3	11.8	11.7	11.8	11.9	11.2	11.4	11.5	11.7	11.4	11.5	11.3	11.6	11.5
pH	6.9	7.1	6.9	6.8	6.8	6.9	6.8	6.8	6.9	7.1	6.9	6.9	6.8	6.8
Cond. (µS/cm)	76	72	74	72	73	73	75	74	75	74	74	75	77	75
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Dechlor Concentration 10 mg/L N	Days														
	65	67		68		72		74		76		JAB ~~78~~ 79		81
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.0	7.0	7.5	7.0	8.0	7.0	8.0	7.0	7.0	7.0	8.0	7.0	8.0
DO (mg/L)	11.4	11.8	11.9	11.8	12.0	11.2	11.4	11.5	11.6	11.4	11.5	11.3	11.6	11.5
pH	7.0	7.1	6.9	6.8	6.9	6.9	6.8	6.8	6.9	7.1	6.9	6.9	6.8	6.8
Cond. (µS/cm)	121	117	119	116	118	116	121	119	118	114	117	118	118	119
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1/DO-2 **pH meter:** pH-1/pH-2 **Conductivity meter:** C-1/C-2

	Control	Control-2	Control-3	
Hardness*	11	12	13	
Alkalinity*	7	5	8	

* mg/L as CaCO3

Analysts: JAB
Reviewed by: M
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate- Dechlor
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Dechlor Concentration 20 mg/L	Days														
	65	67		68		72		74		76		JAB 78	79	81	
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)	7.0	7.0	7.0	7.5	7.0	8.0	7.0	8.0	7.0	7.0	7.0	8.0	7.5	8.0	
DO (mg/L)	11.3	11.8	11.9	11.8	11.9	11.2	11.4	11.5	11.7	11.4	11.6	11.3	11.5	11.5	
pH	6.9	7.1	6.9	6.8	6.9	6.9	6.9	6.8	6.9	7.0	6.9	6.8	6.7	6.9	
Cond. (µS/cm)	206	203	205	200	204	205	208	204	205	194	203	203	197	204	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Dechlor Concentration 40 mg/L N	Days														
	65	67		68		72		74		76		JAB 78	79	81	
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)	7.0	7.0	7.0	7.5	7.0	8.0	7.0	8.0	7.0	7.0	7.0	8.0	7.5	8.0	
DO (mg/L)	11.3	11.8	11.8	11.8	11.9	11.2	11.4	11.5	11.6	11.4	11.6	11.3	11.6	11.5	
pH	7.0	7.1	7.0	6.8	6.9	6.9	6.9	6.8	6.8	7.0	6.9	6.9	6.8	6.9	
Cond. (µS/cm)	376	367	361	364	366	375	378	372	376	350	371	368	351	367	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Concentration	Days														
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)															
DO (mg/L)															
pH															
Cond. (µS/cm)															
Initials															

Concentration	Days														
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)															
DO (mg/L)															
pH															
Cond. (µS/cm)															
Initials															

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control	Control-2	Control-3	
Hardness*	11	12	13	
Alkalinity*	7	5	8	

* mg/L as CaCO3

Analysts: JAB

Reviewed by: JR

Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Dechlor
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Concentration: Control	Days													
	81	84		86		88		90		93		95		97
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.5	8.0
DO (mg/L)	12.0	11.2	11.4	11.4	11.7	11.3	11.3	11.8	11.7	11.5	11.7	11.3	11.4	11.2
pH	6.8	6.9	6.8	7.1	7.0	6.8	6.9	6.8	6.9	6.8	7.1	7.0	6.9	6.8
Cond. (µS/cm)	31	29	30	30	32	29	31	31	34	31	33	31	32	31
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: 2.5 mg/L N	Days													
	81	84		86		88		90		93		95		97
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	8.0	7.0	8.0	7.5	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0
DO (mg/L)	12.0	11.2	11.4	11.4	11.7	11.3	11.3	11.8	11.7	11.5	11.8	11.3	11.5	11.2
pH	6.8	6.9	6.9	7.0	7.1	6.8	6.9	6.8	6.9	6.8	7.1	7.0	6.9	6.8
Cond. (µS/cm)	58	52	54	53	55	51	54	54	56	53	57	55	56	53
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: 5.0 mg/L	Days													
	81	84		86		88		90		93		95		97
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.0	8.0	7.0	8.0	7.5	8.0	7.5	8.0	7.0	8.0	7.0	8.0
DO (mg/L)	12.0	11.2	11.4	11.4	11.7	11.3	11.3	11.8	11.7	11.5	11.8	11.3	11.4	11.2
pH	6.8	6.9	6.9	7.0	7.0	6.8	6.8	6.8	6.9	6.8	7.1	7.0	6.9	6.8
Cond. (µS/cm)	81	75	80	75	78	73	78	76	79	76	79	79	80	76
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: 10.0 mg/L	Days													
	81	84		86		88		90		93		95		97
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	8.0	7.0	8.0	7.5	8.0	7.0	8.0	7.0	8.0	7.0	7.5	7.5	8.0
DO (mg/L)	12.0	11.2	11.3	11.4	11.6	11.3	11.4	11.8	11.7	11.5	11.8	11.3	11.4	11.2
pH	6.8	6.9	7.0	6.9	7.0	6.8	6.9	6.8	6.9	6.8	7.1	7.0	6.9	6.8
Cond. (µS/cm)	126	116	125	120	123	115	120	120	126	120	124	~~124~~ 123	124	119
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control	Control-2	Control-3	
Hardness*	13	13	13	
Alkalinity*	8	10	9	

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate – Dechlor
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Concentration 20.0 mg/L	Days														
	81	84		86		88		90		93		95		97 JAB 97 ET	
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)	7.5	8.0	7.0	8.0	7.5	8.0	7.5	8.0	7.0	8.0	7.0	7.5	7.5	8.0	
DO (mg/L)	12.0	11.2	11.3	11.4	11.4	11.3	11.4	11.8	11.7	11.5	11.7	11.3	11.5	11.2	
pH	6.8	6.9	7.0	6.9	7.1	6.8	6.9	6.9	7.0	6.8	7.1	7.0	6.8	6.8	
Cond. (µS/cm)	207	197	208	202	212	196	205	204	212	206	209	216	210	209	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Concentration 40 mg/L N	Days														
	81	84		86		88		90		93		95		97 JAB ET	
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)	7.0	8.0	7.0	8.0	7.5	8.0	7.5	8.0	7.5	8.0	7.0	7.5	7.5	8.0	
DO (mg/L)	12.0	11.2	11.3	11.4	11.5	11.3	11.4	11.8	11.7	11.5	11.7	11.3	11.5	11.2	
pH	6.8	6.9	7.0	6.8	7.1	6.8	6.9	6.9	6.9	6.8	7.0	7.0	6.9	6.8	
Cond. (µS/cm)	371	370	383	372	380	365	375	377	390	374	372	386	381	381	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Concentration	Days														
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)															
DO (mg/L)															
pH															
Cond. (µS/cm)															
Initials															

Concentration	Days														
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)															
DO (mg/L)															
pH															
Cond. (µS/cm)															
Initials															

DO meter: DO-1/DO-2 **pH meter:** pH-1/pH-2 **Conductivity meter:** C-1/C-2

	Control	Control-2	Control-3	
Hardness*	13	13	13	
Alkalinity*	8	10	9	

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate-Dechlor
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Concentration: Control	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	8.0	7.0	8.0	7.0	7.5	7.0	8.0	7.5	7.5	7.0	7.5	7.0	7.5
DO (mg/L)	11.5	11.0	11.3	11.8	12.0	11.8	12.0	11.2	11.6	12.1	12.2	11.6	11.8	11.5
pH	6.8	7.0	7.1	7.2	7.1	6.9	7.0	7.1	7.0	6.7	6.8	6.8	6.8	7.0
Cond. (µS/cm)	32	31	34	31	33	32	33	31	35	33	36	33	36	32
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: 2.5 mg/L NO_3-N	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	8.0	7.0	8.0	7.0	7.5	7.0	8.0	7.5	7.5	7.5	7.5	7.0	7.5
DO (mg/L)	11.4	11.0	11.2	11.8	12.0	11.8	12.0	11.2	11.6	12.1	12.2	11.6	11.8	11.5
pH	6.8	7.0	7.1	7.2	7.0	6.9	7.0	7.1	7.0	6.7	6.8	6.8	6.8	7.0
Cond. (µS/cm)	57	53	57	54	58	54	57	54	58	57	59	55	59	56
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: 5	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	8.0	7.0	8.0	7.0	7.5	7.0	8.0	7.5	7.5	7.0	7.5	7.0	7.5
DO (mg/L)	11.3	11.0	11.3	11.8	12.1	11.8	12.0	11.2	11.5	12.1	12.2	11.6	11.8	11.5
pH	6.8	7.0	7.1	7.2	7.0	6.9	7.1	7.1	7.0	6.7	6.7	6.8	6.8	7.0
Cond. (µS/cm)	81	75	80	76	80	76	83	76	79	80	83	77	84	78
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: 10	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.5	7.5	7.5	7.5	7.0	7.5
DO (mg/L)	11.4	11.0	11.3	11.9	12.0	11.8	12.0	11.2	11.5	12.1	12.2	11.6	11.9	11.5
pH	6.8	7.0	7.0	7.2	7.0	6.9	7.0	7.1	6.9	6.7	6.8	6.8	6.8	7.0
Cond. (µS/cm)	123	118	126	120	124	119	126	119	123	124	127	121	129	123
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1/DO-2 **pH meter:** pH-1/pH-2 **Conductivity meter:** C-1/C-2

	Control	Control-2	Control-3	
Hardness*	13	13	12	
Alkalinity*	9	10	8	

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate-Dechlor
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

mg/L NO_3-N Concentration 20	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	7.5	7.0	7.5	7.0	7.5
DO (mg/L)	11.3	11.0	11.1	11.8	12.1	11.8	12.0	11.2	11.4	12.1	12.2	11.6	11.9	11.5
pH	6.8	7.0	7.0	7.2	7.1	6.9	7.1	7.1	6.9	6.7	6.7	6.8	6.8	7.0
Cond. (µS/cm)	215	205	217	205	214	206	209	204	212	211	219	207	220	211
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration 40	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	7.5	7.0	7.5
DO (mg/L)	11.3	11.0	11.3	11.8	12.1	11.8	12.0	11.2	11.4	12.1	12.2	11.6	11.9	11.5
pH	6.8	7.0	7.1	7.2	7.1	6.9	7.0	7.1	6.9	6.7	6.7	6.8	6.8	7.0
Cond. (µS/cm)	387	372	393	364	382	369	381	375	374	388	395	383	394	379
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1/DO-2 **pH meter:** pH-1/pH-2 **Conductivity meter:** C-1/C-2

	Control	Control-2	Control-3	
Hardness*	13	13	12	
Alkalinity*	9	10	8	

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [illegible]

Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Dechlor
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Dechlor Concentration: Control

	Days													
	114	116		118		121		123		125		128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	8.0	7.0	7.5	7.0	8.0	7.0	8.0	7.5	7.5	7.0	7.5	7.0	7.5
DO (mg/L)	11.6	11.7	11.9	11.5	11.5	11.8	11.7	11.9	11.8	11.1	11.4	11.7	11.3	11.8
pH	7.0	6.9	6.9	6.9	6.8	6.8	6.8	7.1	6.8	7.2	7.2	7.1	7.0	7.1
Cond. (µS/cm)	37	33	36	33	35	32	36	32	38	32	37	32	35	~~33~~ 32 JAB
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Dechlor Concentration: 2.5 mg/L N

	Days													
	114	116		118		121		123		125		128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	8.0	7.5	7.5	7.0	8.0	7.0	8.0	7.0	7.5	7.0	7.5	7.0	7.5
DO (mg/L)	11.6	11.7	11.0	11.5	11.5	11.8	11.7	11.9	11.8	11.1	11.4	11.7	11.3	11.8
pH	7.0	6.9	6.9	6.9	6.8	6.8	6.8	7.1	6.8	7.2	7.2	7.1	7.0	7.2
Cond. (µS/cm)	59	55	58	55	57	55	60	54	60	56	60	57	59	54
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Dechlor Concentration: 5.0

	Days													
	114	116		118		121		123		125		128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	8.0	7.0	7.5	7.0	8.0	7.0	8.0	7.5	7.5	7.0	7.5	7.0	7.5
DO (mg/L)	11.6	11.7	12.2	11.5	11.5	11.8	11.8	11.9	11.9	11.1	11.5	11.7	11.3	11.8
pH	7.0	6.9	6.9	6.9	6.8	6.8	6.8	7.1	6.8	7.2	7.2	7.1	7.2	7.1
Cond. (µS/cm)	90	76	82	78	78	78	85	77	82	78	81	81	84	77
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Dechlor Concentration: 10.0

	Days													
	114	116		118		121		123		125		128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.0	7.5	7.0	8.0	7.0	8.0	7.0	7.5	7.0	7.5	7.0	7.5
DO (mg/L)	11.6	11.7	12.2	11.5	11.5	11.8	11.8	11.9	11.5	11.1	11.4	11.7	11.4	11.8
pH	7.0	6.9	6.8	6.9	6.8	6.8	6.8	7.1	6.8	7.2	7.1	7.1	7.2	7.1
Cond. (µS/cm)	121	117	124	120	119	123	125	119	127	122	124	126	129	190
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1/DO-2 **pH meter:** pH-1/pH-2 **Conductivity meter:** C-1/C-2

	Control	Control-2		
Hardness*	12	9		
Alkalinity*	8	9		

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [illegible]

Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Dechlor
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Dechlor Concentration 20 mg/L N	Days													
	114	116		118		121		123		125		128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.5	7.5	7.0	8.0	7.0	8.0	7.0	8.0	7.0	7.5	7.0	7.5
DO (mg/L)	11.6	11.7	12.1	11.5	11.5	11.8	11.6	11.9	11.8	11.1	11.5	11.7	11.4	11.8
pH	7.0	6.9	6.8	6.9	6.8	6.8	6.8	7.1	6.9	7.2	7.1	7.1	7.1	7.2
Cond. (µS/cm)	212	203	213	206	208	210	217	207	216	207	217	215	207	207
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Dechor Concentration 40	Days													
	114	116		118		121		123		125		128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.5	7.5	7.0	8.0	7.0	8.0	7.0	80	7.0	7.5	7.0	7.5
DO (mg/L)	11.6	11.7	12.2	11.5	11.5	11.8	11.9	11.4	11.8	11.1	11.3	11.7	11.4	11.8
pH	7.0	6.9	6.8	6.9	6.7	6.8	6.8	7.1	6.9	7.2	7.2	7.1	7.1	7.2
Cond. (µS/cm)	384	367	386	373	371	378	383	374	385	376	385	384	381	379
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control	Control-2		
Hardness*	12	9		
Alkalinity*	8	9		

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate – Dechlor
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Dechlor Concentration Control	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.0											
DO (mg/L)	12.1		11.9											
pH	7.2		7.2											
Cond. (µS/cm)	36		36											
Initials	JAB		JAB											

Dechlor Concentration 2.5 mg/L N	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.0											
DO (mg/L)	12.1		11.9											
pH	7.2		7.1											
Cond. (µS/cm)	63		60											
Initials	JAB		JAB											

Dechlor Concentration 5.0	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.0											
DO (mg/L)	12.0		12.0											
pH	7.2		7.0											
Cond. (µS/cm)	83		82											
Initials	JAB		JAB											

Dechlor Concentration 10	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.0											
DO (mg/L)	12.0		11.5											
pH	7.2		7.2											
Cond. (µS/cm)	130		126											
Initials	JAB		JAB											

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control			
Hardness*	9	8		
Alkalinity*	9			

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [illegible]

Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Dechlor
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Dechlor Concentration 20 mg/L N	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.5											
DO (mg/L)	12.0		11.9											
pH	7.2		7.1											
Cond. (µS/cm)	216		214											
Initials	JAB	JAB												

Dechlor Concentration 40	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.5											
DO (mg/L)	11.9		11.7											
pH	7.2		7.1											
Cond. (µS/cm)	395		382											
Initials	JAB	JAB												

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control			
Hardness*	9			
Alkalinity*	9			

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [signature]

Date reviewed: 15 May 2012

Sample Description:

Comments:

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor Control A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
27	0	12	1.34	112	JAB
27	0				
28	0				
27	0				
29	0				
28	0				
27	0				
28	0				
28	0				
28	0				
26	0				
27	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor Control B

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
29	0	20	2.82	141	JAB
30	0				
28	0				
29	0				
30	0				
30	0				
29	0				
30	1				
30	1				
29	0				
30	0				
30	0				
30	0				
30	0				
28	0				
30	0				
30	0				
30	0				
30	0				
28	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor Control C

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1200h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
27	0	17	1.98	116	JAB
24	0				
26	0				
26	1				
27	0				
26	0				
26	0				
27	0				
26	0				
28	1				
27	0				
25	0				
27	0				
25	1				
26	0				
26	0				
26	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor cont. D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1100h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
28	1	25	3.17	127	JW
28	1				
28	0				
28	1				
28	0				
29	0				
30	1				
28	0				
28	0				
29	0				
29	0				
28	0				
28	0				
28	0				
29	0				
29	0				
29	0				
29	0				
29	0				
28	0				
28	0				
30	0				
29	0				
29	0				
29	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: De chlor 2.5 A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1115h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
29	0	19	2.10	111	JW
28	1				
28	0				
28	0				
28	1				
29	0				
27	1				
28	0				
28	0				
28	0				
28	0				
28	0				
27	0				
28	0				
28	0				
27	0				
28	0				
27	1				
27	0				

Reviewed by: _____

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: DechlOR 2.5 B

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1215h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
30	0	17	2.42	142	JW
30	0				
30	1				
29	0				
30	0				
28	0				
30	0				
30	1				
30	0				
31	0				
30	0				
30	0				
30	0				
30	0				
30	0				
30	0				
30	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor 2.5 C

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1145h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism(mg)	Initials
25	2 *edema	~~8~~ 9 JAB	1.21	151	JW
30	0				
29	0				
29	0				
29	1				
30	0				
30	0				
29	1				
28	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: De-chlor 2.5D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
27	0	~~25~~	2.99	120	JBF
27	0				
28	0				
28	1				
29	1				
30	0				
28	1				
27	1				
30	0				
28	0				
28	0				
30	0				
28	1				
27	0				
28	1				
30	0				
30	0				
29	1				
30	0				
28	0				
29	0				
29	1				
28	0				
29	1				
28	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: De-Chlor 5.0 A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
28	0	13	1.48	114	JBF
29	1				
28	0				
28	1				
28	0				
28	0				
28	1				
28	0				
29	1				
28	1				
30	1				
26	1				
27	0				

Reviewed by: _____

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor 5.013

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
28	0	20	2.76	138	JBF
30	0				
30	0				
29	0				
28	1				
30	0				
30	1				
30	1				
30	1				
29	0				
30	0				
28	1				
29	1				
30	1				
30	0				
29	0				
29	0				
28	1				
29	1				
29	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor 5.0 C

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1200h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism(mg)	Initials
27	0	14	1.66	119	JAB
27	0				
27	1				
27	0				
26	0				
27	0				
25	1				
27	1				
25	0				
27	0				
26	0				
26	0				
27	1				
27	0				

Reviewed by: _____ **Date reviewed:** 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: De-Chlor 5.0 D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h.
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
30	1	25	3.09	124	JBF
29	0				
28	1				
28	1				
29	1				
28	2				
30	1				
28	1				
29	1				
27	0				
27	1				
27	0				
28	1				
30	0				
29	1				
28	0				
28	1				
29	1				
30	1				
28	0				
28	0				
29	0				
29	1				
28	1				
27	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor 10A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
29	0	14	1.58	113	JW
28	0				
28	0				
27	1				
28	1				
29	1				
27	0				
28	1				
28	0				
28	0				
30	0				
28	0				
27	1				
27	0				

Reviewed by: _____ **Date reviewed:** 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor 10 B

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1130h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
31	0	14	2.02	144	JW
30	0				
30	0				
29	0				
30	0				
31	0				
30	0				
30	0				
31	0				
30	0				
31	0				
30	0				
30	0				
30	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor 10 C

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1015h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
27	1	13	1.65	127	JAB
28	0				
26	1				
27	0				
27	0				
27	1				
JAB 27	1				
26	1				
27	1				
28	0				
26	1				
28	0				
25	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor 10 D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1150h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
26	0	25	3.23	129	JAB
25	1				
27	1				
28	0				
27	0				
~~46~~ 26	0				
27	1				
25	0				
26	0				
27	1				
27	0				
26	1				
26	0				
28	1				
25	0				
25	0				
27	0				
28	0				
27	1				
28	0				
26	0				
28	0				
25	0				
25	0				
26	0				
27	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: De-chlor 20A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism(mg)	Initials
28	0	9	0.91	101	JBF
27	1				
26	0				
27	0				
27	0				
27	0				
26	0				
27	0				
26	0				

Reviewed by: _____ **Date reviewed:** 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor 20B

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1050h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism(mg)	Initials
27	1	21	2.97	141	JAB
28	0				
28	1				
27	1				
27	0				
27	1				
27	0				
28	1				
27	0				
27	0				
29	1				
28	0				
27	1				
27	0				
28	0				
29	1				
27	1				
28	0				
28	1				
28	1				
27	1				

Reviewed by: _____

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: DE - ChoR 20 C

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1120h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism	Initials
28	1	16	2.11	132	JW
27	1				
28	1				
27	1				
27	0				
27	1				
28	1				
28	1				
28	1				
25	0				
28	0				
28	1				
28	0				
27	1				
27	1				
29	0				

Reviewed by: _____

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: De - CHOR 20 D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
26	1	26	3.29	127	JW
28	0				
28	2				
28	1				
25	1				
28	1				
28	1				
28	0				
28	0				
29	2				
28	1				
28	1				
28	1				
28	1				
29	2				
28	2				
27	1				
29	1				
28	0				
28	1				
28	0				
29	0				
27	1				
27	1				
27	1				
28	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: De-chlor ~~40~~ JAC ~~D~~ 40 A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1200h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
27	0	12	1.35	112	JW
27	1				
27	1				
28	1				
26	0				
27	0				
26	1				
27	0				
27	1				
27	0				
27	0				
28	0				

Reviewed by: _____

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Dechlor 40 B

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1145h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
27	1	23	3.06	133	JAB
28	1				
27	0				
27	0				
28	0				
28	0				
28	1				
27	1				
28	1				
27	0				
26	1				
28	0				
27	0				
28	1				
27	1				
27	0				
25	2				
27	0				
27	1				
26	1				
27	1				
27	0				
26	0				

Reviewed by: _____

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: De-chlor 40C

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism(mg)	Initials
26	1	11	1.49	135	SBP
28	1				
27	0				
28	1				
26	1				
27	1				
27	1				
28	1				
26	1				
25	1				
27	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: De-chlor 40 JAB ~~A~~ D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism(mg)	Initials
27	1	27	3.15	117	JBF
27	1				
27	1				
28	1				
28	1				
28	1				
28	2				
27	0				
29	1				
27	1				
28	1				
27	1				
28	1				
27	1				
27	1				
27	1				
26	0				
28	1				
26	1				
28	0				
27	1				
28	1				
27	1				
27	1				
28	0				
28	1				
26	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

APPENDIX C – Toxicity Test Data: Moderately Hard Water

Embryo-Alevin-Fry Test Summary Sheet

Client: Rescan

Start Date/Time: Nov 19/11 @ 1045h

Work Order No.: n/a

Test Species: *S.namaycush*

Sample Information:

Test ID: Moose-nitrate
Chemical: Sodium Nitrate (NaNO3)

Dilution Water:

Type: Moderately Hard Water Synthetic Blend
Hardness (mg/L $CaCO_3$): 78-90
Alkalinity (mg/L $CaCO_3$): 24-30

Test Organism Information:

Source: Shuswap Lake
Loading Density: 30 organisms / 2L
Date Organism Received: Nov 18/11

Test Results:

	mg/L NO3-N			
	Survival	% Swim -up	Wet Weight	Length
EC25 (95% CL)	> 329.8			
EC50 (95% CL)	> 329.8			
IC25 (95% CL)		> 329.8	> 329.8	> 329.8
IC50 (95% CL)		> 329.8	> 329.8	> 329.8

Reviewed by:

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: MHW Blend Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

Treatments	Rep	Day of Test - No. of Mortalities							Total Dead Eggs/ Embryos Alevins	Total Undeveloped/ Unhatched Embryos	Total No. Alevins	Total Exposed
		1	2	4 JAB	6 JAB	5	6	9 JAB				
Control	1		0	0	0			0	0	0	6	30
	2		↓	↓	↓			↓	↓	↓	↓	↓
	3											
	4											
20	1											
	2											
	3											
	4											
40	1											
	2											
	3											
	4											
80	1											
	2											
	3											
	4											
160	1											
	2											
	3											
	4											
320	1											
	2											
	3											
	4		↓	↓	↓			↓	↓	↓	↓	↓
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials			JAB	JAB	JAB			JAB	JAB	JAB	JAB	JAB

Comments:

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Moose Blend Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. Namaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Total No. ~~JAB Fry~~ Hatched	Total Exposed
		11	16	18	20	23	25	27				
Control	1	0	0	0	0	0	0	0	0	0	0	30
	2	0	0	0	0	0	0	0	0			
	3	0	0	0	1	3	2	0	6			
	4	1	0	1	1	1	0	0	4			
20	1	0	0	0	0	1	0	0	1			
	2	0	0	0	0	0	0	0	0			
	3	1	0	1	1	5	2	0	10			
	4	0	0	0	0	0	1	0	JAB 1			
40	1	0	0	0	0	1	0	0	1			
	2	0	0	0	0	0	0	0	0			
	3	0	0	0	0	1	1	0	2			
	4	0	0	0	1	1	0	0	2			
80	1	1	0	0	0	0	0	0	1			
	2	0	0	0	0	0	0	0	0			
	3	0	0	0	1	6	1	0	8			
	4	0	0	0	0	1	0	0	1			
160	1	0	0	0	0	0	0	0	0			
	2	0	0	0	0	0	0	0	0			
	3	0	0	0	0	2	2	0	4			
	4	0	0	0	0	2	0	0	2			
320	1	0	0	0	0	0	0	0	0			
	2	0	0	0	0	0	0	0	0			
	3	0	0	0	0	2	1	0	3			
	4	1	0	0	1	2	1	0	5			
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments:

Reviewed by:

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Moose - Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Total No. ~~Fry~~ Hatched	Total Exposed
		30	32	34	38	39	41	45				
Control	1	0	0	0	3	0	0	2	5	0	0	30
	2	0	0	0	0	0	0	0	0			
	3	0	0	0	2	0	0	1	3			
	4	0	0	0	0	0	0	0	0			
20	1	0	0	0	1	0	0	0	1			
	2	0	0	0	0	0	2	0	2			
	3	0	0	0	1	0	0	0	1			
	4	0	0	0	0	0	0	0	0			
40	1	0	0	0	0	0	0	1	1			
	2	0	0	0	0	0	0	0	0			
	3	0	0	0	3	0	2	0	5			
	4	0	0	0	0	0	0	0	0			
80	1	0	0	0	1	0	1	2	~~4~~			
	2	0	0	0	0	0	0	0	0			
	3	0	1	0	0	0	1	0	2			
	4	0	0	0	0	0	0	1	1			
160	1	0	0	0	3	0	1	0	4			
	2	0	0	0	0	0	0	0	0			
	3	0	0	0	0	0	0	1	1			
	4	0	0	0	0	0	0	0	0			
320	1	1	0	0	4	0	0	3	8			
	2	0	0	0	0	0	0	0	0			
	3	0	0	0	0	0	2	0	2			
	4	0	0	0	0	0	0	0	0			
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments:

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Moose - Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @
Test Species:

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Total No. JAB Fry Hatched	Total Exposed
		46	48	51	53	55	58	60				
Control	1	0	0	0	1	1	2	1	5	0	0	30
	2	0	0	0	2	0	2	0	4			
	3	0	0	0	0	0	0	1	1			
	4	0	0	0	0	0	0	0	0			
20	1	0	0	1	1	0	2	0	4			
	2	0	0	0	0	0	0	4	4			
	3	0	0	2	0	0	2	0	4			
	4	0	0	0	0	0	1	0	1			
40	1	0	1	2	3	1	0	0	7			
	2	0	0	0	0	0	1	2	3			
	3	0	0	0	0	0	2	0	2			
	4	0	0	0	0	0	0	0	0			
80	1	0	1	2	1	0	0	2	6			
	2	0	0	0	0	0	0	1	1			
	3	1	0	0	0	0	0	0	1			
	4	0	0	0	0	0	0	0	0			
160	1	0	1	2	1	1	0	2	7			
	2	0	0	6	0	0	3	4	7			
	3	0	0	0	0	0	0	1	1			
	4	0	0	0	0	0	0	0	0			
320	1	1	0	1	0	0	0	0	2			
	2	0	0	0	0	0	0	2	2			
	3	0	0	0	0	1	0	0	1			
	4	0	1	0	0	0	0	1	2			
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments:

Reviewed by:

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Moose - Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Total No. Fry ~~Fry~~ Hatched (Day 74)	Total Exposed
		62	65	67	Undeveloped @ 67	68	72	74				
Control	1	0	0	0	0	0	0	0	0	0	0	30
	2	1	0	0	1	0	0	0	2		0	
	3	0	0	0	1	0	0	0	1		0	
	4	1	0	0	2	0	0	0	3		0	
20	1	2	0	1	3	0	0	0	6		0	
	2	1	2	1	0	0	0	0	4		0	
	3	0	0	0	0	0	0	0	0		0	
	4	1	1	0	0	0	0	0	2		4	
40	1	0	0	1	1	0	0	0	2		0	
	2	0	2	1	1	0	0	0	4		1	
	3	0	0	0	0	0	0	0	0		0	
	4	0	1	0	0	0	0	0	1		1	
80	1	1	0	2	0	0	0	0	3		0	
	2	0	4	1	1	0	0	0	6		5	
	3	0	0	0	0	0	0	0	0		0	
	4	0	2	0	0	0	0	0	2		0	
160	1	0	0	0	1	0	0	0	1		1	
	2	1	1	0	4	0	0	0	6		0	
	3	0	0	0	0	0	0	0	0		0	
	4	1	0	1	0	0	0	0	JAB 2		0	
320	1	0	1	0	0	0	0	0	1		1	
	2	1	2	3	6	0	0	0	12		6	
	3	0	0	0	1	0	0	0	1		0	
	4	0	1	0	1	0	0	0	2		0	
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments: (a)

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Moose - Nitrate
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Day 93 Total No. ~~Fry~~ JAB Hatched	Total Exposed
		79	81	84	86	88	90	93				
Control	1	0	0	0	0 (a)	0	0	0	0	0	20	30
	2	0	0	1	1 (a)	0	0	0	2		22	
	3	0	0	1	0	3	0	0	4		15	
	4	0	0	0	0	1	0	0	1		17	
20	1	0	0	0	0	0	0	0	0		18	
	2	0	0	0	0	0	1	0	1		17	
	3	0	0	0	1	0	0	1	2		15	
	4	0	0	0	0	0	0	0	0		26	
40	1	0	0	0	0	0	0	0	0		18	
	2	0	0	0	0	1	0	0	1		22	
	3	0	0	1	0	1	0	1	3		14	
	4	0	0	0	0	0	0	0	0		27	
80	1	0	0	0	0	0	0	0	0		16	
	2	0	0	1 (a)	0	0	1	0	2		21	
	3	0	0	0	0	0	0	0	0		15	
	4	0	0	0	0	0	0	0	0		26	
160	1	0	0	0	0	0	0	0	0		18	
	2	0	0	0	0	0	0	0	0		17	
	3	0	0	0	0	0	0	1	1		23	
	4	0	0	0 (a)	0	0	0	0	0		26	
320	1	0	0	1 (a)	0	0	0	0	1		17	
	2	1	0	0	0	0	0	0	1		16	
	3	0	0	0	0	0	0	0	0		21	
	4	0	0	0	0	0	0	0	0		23	
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments: (a) hatched

Reviewed by: [signature]
Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Nitrate-Moose
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L NO_3-N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Day 109 Total No. ~~Fry~~ JAB Hatched	Total Exposed
		95	97	100	102	104	107	109				
Control	1	0	0	0	0	0	0	0	0	0	20	30
	2	0	0	0	0	0	↓	0	0	↓	22	↓
	3	0	0	0	0	0		0	0		15	
	4	0	0	0	0	0		0	0		22	
20 mg/L	1	0	0	0	0	0		0	0		18	
	2	0	0	0	0	↓		1	1		16	
	3	0	0	0	0			0	0		15	
	4	0	1	0	0			0	1		25	
40	1	0	0	0	0			0	0		18	
	2	0	0	0	0			0	0		22	
	3	1	1	1	0			0	3		15	
	4	0	0	0	0			0	0		27	
80	1	0	0	0	0			0	0		16	
	2	0	0	0	0			0	0		21	
	3	3	0	1	1			0	5		14	
	4	0	0	0	0			0	0		26	
160	1	0	0	0	0			0	0		18	
	2	0	0	0	0			0	0		17	
	3	0	0	0	0			0	0		22	
	4	0	0	0	0			0	0		26	
320	1	0	0	0	0			0	0		17	
	2	0	0	0	0			1	1		15	
	3	1	0	1	0			1	3		20	
	4	0	0	0	0	↓	↓	0	0	↓	23	↓
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments:

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Moose - Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Day 125 Total No. ~~Fry~~ JAB Hatched	Total Exposed
		111	114	116	118	121	123	125				
Control	1	0	0	1	0	0	0	0	1	0	19	30
	2	0	0	0	0	0	0	0	0		22	
	3	0	0	0	0	0	1	0	1		14	
	4	0	0	0	0	0	0	0	0		22	
20	1	0	0	1	0	0	0	0	1		17	
	2	0	0	0	1	0	0	0	1		15	
	3	0	0	1	0	1	0	0	2		13	
	4	0	0	0	0	0	1	0	1		24	
40	1	0	0	1	0	0	0	0	~~JAB~~ 1		17	
	2	0	0	0	0	0	0	0	0		22	
	3	0	0	0	0	0	0	0	0		15	
	4	0	0	0	0	0	0	0	0		27	
80	1	0	0	0	0	0	1	0	1		15	
	2	0	0	0	0	0	1	0	1		20	
	3	0	0	2	0	0	0	0	2		12	
	4	0	0	1	0	0	0	0	1		25	
160	1	0	0	0	0	0	0	0	0		~~JAB~~ 18	
	2	0	0	0	0	0	0	0	0		~~JAB~~ 17	
	3	0	0	1	0	0	0	0	1		21	
	4	0	0	2	0	0	0	0	2		24	
320	1	1	0	0	0	0	0	0	1		16	
	2	0	0	0	0	0	0	0	0		15	
	3	0	0	0	0	0	0	0	0		20	
	4	0	0	1	0	0	0	0	1		22	
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB	JAB

Comments:

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Moose
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Mortalities							Total Dead Fish	Total Undeveloped	Day 132 Total No. ~~Fry~~ JAB Hatched	Total Exposed
		128	130	132								
Control	1	0	0	0					0	0	19	30
	2	0	0	0					0		22	
	3	0	1	0					1		13	
	4	0	0	0					0		22	
20	1	0	0	0					0		17	
	2	0	0	0					0		15	
	3	0	0	0					0		13	
	4	0	0	0					0		23 (a)	
40	1	0	0	0					0		17	
	2	0	0	0					0		22	
	3	0	0	0					0		15	
	4	0	0	0					0		27	
80	1	0	0	0					0		15	
	2	0	0	0					0		20	
	3	0	0	0					0		12	
	4	0	0	0					0		25	
160	1	0	0	0					0		18	
	2	0	0	0					0		17	
	3	0	0	0					0		21	
	4	0	0	0					0		24	
320	1	0	0	0					0		16	
	2	0	0	0					0		15	
	3	0	0	0					0		20	
	4	0	0	0					0		22	
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB					JAB	JAB	JAB	

Comments: (a) one fish missing (technician error)

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality
Hatched

Client: Rescan
Sample ID: Moose - Nitrate
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Hatched (Total) 72	74	76	78 (79) JAB	81	84	86	Total Dead Fish	Total Undeveloped	Total No. Fry	Total Exposed
Control	1	0	0	0	0	0	7	18 (a)	n/a			
	2	0	0	0	0	3	8	7				
	3	0	0	1	1	1	3	13 (a)				
	4	0	0	0	0	~~0~~ 0	8	8				
20	1	0	0	1	2	2	3	4				
	2	0	0	0	0	6	7	9 (a)				
	3	0	0	0	0	4	4	8 (a)				
	4	3	4	4	4	4	4	20 (a)				
40	1	0	0	0	0	1	7	17 (a)				
	2	0	1	4	5	6	6	7				
	3	0	0	0	0	0	0	3				
	4	1	1	2	3	3	3	9				
80	1	0	0	0	0	3	5	10 (a)				
	2	5	5	5	5	5	6	7				
	3	0	0	0	0	0	11 (a)	11				
	4	0	0	0	2	2	8	8				
160	1	1	1	1	1	1	1	15 (a)				
	2	0	0	0	1	1	1	13 (a)				
	3	0	0	0	0	2	3	3				
	4	0	0	0	0	6	6	9				
320	1	0	1	1	1	1	1	2				
	2	0	0	0	1	4	6	15 (a)				
	3	0	0	0	0	0	0	13 (a)				
	4	0	0	3	3	3	5	10				
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB	JAB	JAB				

Comments: (a) > 50 %

Reviewed by: [signature]
Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality
Hatched

Client: Rescan
Sample ID: Moose - Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. namaycush

mg/L N	Rep	Day of Test - No. of Hatched (Total ↑) 88	90	93	109	109 Abn			Total Dead Fish	Total Undeveloped	Total No. Fry	Total Exposed
Control	1	19	20	20/20	19	1			NA			
	2	19 ⓐ	21	22/22	22	0						
	3	14	15	15/15	13	2						
	4	8	11 ⓐ	17/22	21	1						
20	1	10 ⓐ	18	18/18	17	1						
	2	17	~~18~~ 17	17/17	15	1						
	3	11	15	15/15	13	2						
	4	21	25	26/27	23	2						
40	1	18	18	18/18	17	1						
	2	18 ⓐ	22	22/22	22	0						
	3	9	11 ⓐ	14/18	14	1						
	4	13	22 ⓐ	27/27	27	0						
80	1	12	14	16/16	16	0						
	2	12 ⓐ	~~15~~ 14	21/21	20	1						
	3	14	15	15/19	12	2						
	4	11	24 ⓐ	26/26	25	1						
160	1	17	17	18/18	18	0						
	2	15	17	17/17	17	0						
	3	16 ⓐ	20	23/23	20	2						
	4	25 ⓐ	25	26/26	24	2						
320	1	16 ⓐ	17	17/17	16	1						
	2	16	16	16/16	15	0						
	3	13	18	21/23	20	0						
	4	17 ⓐ	23	23/23	22	1						
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials		JAB	JAB	JAB	JAB	JAB						

Comments: ⓐ > 50 % hatched

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Daily Mortality

Client: Rescan
Sample ID: Moose - Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12
Test Species: S. Namaycush

JAB

	Rep	~~Day of Test - No. of Mortalities~~ Day 67 Remaining	Alm (1)						Total Dead Fish	Total Undeveloped	Total No. Fry	Total Exposed
Moose Ctrl	1	20	0									
	2	24	1									
	3	19	1									
	4	23	0									
20	1	18	0									
	2	18	1									
	3	17	2									
	4	26	1									
40	1	18	0									
	2	23	0									
	3	21	6									
	4	27	0									
80	1	16	0									
	2	23	1									
	3	19	4									
	4	26	0									
160	1	19	0									
	2	17	6									
	3	24	0									
	4	26	0									
320	1	19	1									
	2	16	0									
	3	23	1									
	4	23	0									
	1											
	2											
	3											
	4											
	1											
	2											
	3											
	4											
Tech Initials												

Comments: (1) Abnormal

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Moose Nitrate
Work Order #: nGq

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: S. namaycush

Treatment: Moose Control	Days: 0	2		4		6		9		11		13		16	
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
Temperature (°C)	7.0	6.5	7.0	6.0	7.0	6.0	6.5	6.0	6.5	6.0	7.0	6.0	6.5	7.0	
DO (mg/L)	11.7	11.3	11.4	12.3	12.0	11.9	12.1	12.4	12.2	12.4	12.2	12.2	12.0	12.1	
pH	7.5	7.4	7.5	7.3	7.3	7.5	7.5	7.4	7.3	7.5	7.4	7.4	7.4	7.3	
Cond. (µS/cm)	380	391	379	383	380	382	393	401	401	404	395	406	398	383	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Treatment: Moose 20 mg/L N	Days: 0	2		4		6		9		11		13		16	
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
Temperature (°C)	7.0	6.5	7.0	6.0	6.5	6.0	6.5	6.5	6.5	6.0	7.0	6.0	6.5	7.0	
DO (mg/L)	11.7	11.2	11.2	12.3	11.9	12.1	12.0	12.3	12.2	12.3	12.2	12.4	12.2	12.0	
pH	7.4	7.3	7.3	7.3	7.3	7.5	7.5	7.3	7.3	7.5	7.4	7.4	7.4	7.3	
Cond. (µS/cm)	541	555	554	552	545	548	562	568	574	576	575	584	561	558	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Treatment: M 40	Days: 0	2		4		6		9		11		13		16	
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
Temperature (°C)	7.0	6.5	6.5	6.0	6.5	6.0	6.5	6.0	6.4	6.0	7.0	6.0	6.0	7.0	
DO (mg/L)	11.6	11.3	11.2	12.2	12.1	12.0	12.0	12.3	12.3	12.4	12.3	12.4	12.1	11.9	
pH	7.4	7.3	7.3	7.3	7.3	7.4	7.5	7.3	7.4	7.5	7.4	7.4	7.4	7.3	
Cond. (µS/cm)	~~717~~ 709	724	~~732~~	721	704	712	737	739	741	748	756	767	722	733	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Treatment: M 80	Days: 0	2		4		6		9		11		13		16	
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final
Temperature (°C)	7.0	6.5	6.5	6.0	6.5	6.0	6.5	6.0	6.5	6.0	7.0	6.0	6.5	7.0	
DO (mg/L)	11.5	11.2	11.2	12.3	12.2	12.2	11.9	12.4	12.2	12.4	12.2	12.4	12.1	12.1	
pH	7.4	7.3	7.3	7.3	7.3	7.4	7.4	7.3	7.4	7.5	7.4	7.4	7.4	7.3	
Cond. (µS/cm)	1029	1064	1063	1054	1021	1034	1064	1071	1071	1083	1087	1048	1057	1068	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

DO meter: DO-1 / DO-2
pH meter: pH-1 / pH-2
Conductivity meter: C-1 / C-2

	Moose Control-1	Moose Ctrl-2	Moose-Ctrl 3	Moose Ctrl 4
Hardness*	88	84		
Alkalinity*	26	28		

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

Embryo-Alevin-Fry Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Moose Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: S. namaycush

Treatment	Days													
	0	2		4		6		9		11		13		167
Moose 160 mg/L N	Init	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	~~Init~~ Final
Temperature (°C)	7.0	6.5	6.5	6.0	6.5	6.0	6.6	6.0	6.5	6.0	6.5	6.0	6.5	7.0
DO (mg/L)	11.5	11.1	11.2	12.4	12.2	12.2	11.9	12.4	12.2	12.4	12.3	12.4	12.1	12.0
pH	7.4	7.3	7.3	7.3	7.3	7.5	7.4	7.3	7.4	7.4	7.4	7.4	7.5	7.3
Cond. (µS/cm)	1686	1716	1714	1715	1690	1688	1740	1738	1743	1763	1761	1786	1694	1691
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Treatment	Days													
	0	2		4		6		9		11		13		167
M 320	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	~~Init~~ Final
Temperature (°C)	7.0	6.5	6.5	6.0	7.0	6.0	6.5	6.0	6.5	6.0	6.5	6.0	6.5	7.0
DO (mg/L)	11.7	11.1	11.2	12.3	12.0	12.1	11.9	12.4	12.2	12.4	12.2	12.4	12.1	12.1
pH	7.4	7.3	7.3	7.3	7.3	7.4	7.4	7.3	7.4	7.4	7.4	7.3	7.4	7.3
Cond. (µS/cm)	2910	3000	3000	3000	2830	2950	2980	2990	3000	3030	3030	3050	2990	2990
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Treatment	Days													
	0	1		2		3		4		5		6		7
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Treatment	Days													
	0	1		2		3		4		5		6		7
	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init	Final	Init
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 / DO-2 pH meter: pH-1 / pH-2 Conductivity meter: C-1 / C-2

	Moose Control-1	Moose Ctrl 2	Moose Ctrl 3	Moose Ctrl 4
Hardness*	88	84		
Alkalinity*	26	28		

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Moose Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: S. namaycush

Concentration: Control Moose	Days													
	16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.0	7.0	6.0	6.5	6.0	7.0	6.5	7.0	6.5	6.5
DO (mg/L)	12.4	11.8	12.0	12.2	12.4	12.0	12.4	12.0	12.2	11.7	12.0	12.1	12.3	11.8
pH	7.4	7.4	7.5	7.4	7.4	7.3	7.4	7.4	7.3	7.3	7.3	7.4	7.3	7.3
Cond. (µS/cm)	387	387	388	385	391	392	395	401	388	403	402	409	408	400
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

mg/L N Concentration: Moose 20	Days													
	16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.0	7.0	6.0	6.5	6.5	7.0	6.5	7.0	6.5	6.5
DO (mg/L)	12.3	11.8	12.0	12.2	12.4	12.0	12.4	12.0	12.2	11.8	12.0	12.1	12.3	11.8
pH	7.3	7.4	7.4	7.4	7.3	7.3	7.4	7.4	7.3	7.3	7.3	7.4	7.3	7.4
Cond. (µS/cm)	573	560	558	552	565	544	565	567	548	574	567	582	578	564
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: Moose 40	Days													
	16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.0	7.0	6.0	6.5	6.5	7.0	6.5	7.0	6.5	6.5
DO (mg/L)	12.3	11.8	11.9	12.2	12.4	12.0	12.4	11.9	12.2	11.8	12.0	12.1	12.2	11.7
pH	7.4	7.4	7.4	7.4	7.4	7.3	7.4	7.3	7.3	7.3	7.3	7.4	7.3	7.4
Cond. (µS/cm)	734	712	726	706	719	709	710	737	709	738	741	754	741	714
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: Moose 80	Days													
	16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.0	7.0	6.0	6.5	6.5	7.0	6.5	7.0	6.5	6.5
DO (mg/L)	12.3	11.9	12.0	12.2	12.4	12.1	12.4	11.9	12.2	11.8	12.0	12.0	12.3	11.7
pH	7.3	7.4	7.5	7.4	7.4	7.3	7.4	7.3	7.3	7.3	7.3	7.3	7.3	7.4
Cond. (µS/cm)	1074	1048	1061	1042	1062	1023	1058	1058	1055	1068	1061	1088	1075	1021
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1 / DO-2
pH meter: pH-1 / pH-2
Conductivity meter: C-1 / C-2

	Control-1	Control-2		
Hardness*	JAB ~~88~~ 84	82		
Alkalinity*	JAB ~~26~~ 28	30		

* mg/L as CaCO3

Analysts: JAB
Reviewed by: M
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Moose-Nitrate
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: S. namaycush

Concentration Moose 160	Days 16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.6	6.0	6.5	6.0	7.0	6.0	6.5	6.5	7.0	6.0	7.0	6.5	6.5
DO (mg/L)	12.4	11.9	12.1	12.2	12.4	12.1	12.4	12.0	12.2	11.9	12.0	12.0	12.3	11.7
pH	7.4	7.4	7.4	7.4	7.4	7.3	7.4	7.3	7.3	7.3	7.3	7.3	7.3	7.4
Cond. (µS/cm)	1698	1663	1689	1695	1690	1652	1708	1685	1686	1678	1694	1732	1690	1664
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration Moose 320	Days 16	18		20		23		25		27		30		32
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.0	6.0	6.5	6.0	7.0	6.0	6.5	6.5	7.0	6.5	7.0	6.5	6.5
DO (mg/L)	12.3	11.9	12.0	12.2	12.4	12.1	12.4	11.9	12.2 JAB	11.9	12.0	12.0	12.3	11.7
pH	7.4	7.4	7.4	7.4	7.4	7.3	7.4	7.3	7.3 JAB	7.3	7.3	7.3	7.3	7.4
Cond. (µS/cm)	3000	2930	2980	2970	2950	2960	3000	2950	3010	2920	2960	2970	2890	2820
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1/DO-2 pH meter: pH-1/pH-2 Conductivity meter: C-1/C-2

	Control-1	Control-2		
Hardness*	84	82		
Alkalinity*	28	30		

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Moose
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Concentration: Control / Moose	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	7.0	6.0	6.5	6.0	7.0	6.0	6.5	6.0	6.5	6.0	6.5
DO (mg/L)	12.0	12.1	12.3	12.0	12.4	12.2	12.2	11.8	12.2	12.4	12.4	12.0	12.4	12.2
pH	7.3	7.3	7.4	7.3	7.3	7.3	7.3	7.5	7.4	7.4	7.4	7.4	7.4	7.3
Cond. (µS/cm)	408	394	413	395	401	396	399	396	406	396	403	395	395	394
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: Moose 20	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	7.0	6.0	6.5	6.0	7.0	6.0	6.5	6.0	6.5	6.0	6.5
DO (mg/L)	12.0	12.1	12.3	11.9	12.4	12.2	12.2	11.8	12.2	12.3	12.4	12.0	12.2	12.2
pH	7.2	7.3	7.3	7.3	7.3	7.3	7.3	7.5	7.4	7.4	7.4	7.4	7.4	7.3
Cond. (µS/cm)	581	566	577	567	572	564	575	569	569	559	574	558	560	557
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: Moose 40	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.0	6.5	6.0	7.0	6.0	6.5	6.0	6.5	6.0	6.5
DO (mg/L)	12.0	12.1	12.3	11.9	12.4	12.2	12.2	11.8	12.2	12.2	12.5	11.9	12.2	12.2
pH	7.3	7.3	7.4	7.3	7.3	7.3	7.3	7.5	7.4	7.4	7.4	7.4	7.3	7.3
Cond. (µS/cm)	753	737	738	738	747	729	740	737	735	725	738	722	724	722
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: Moose 80	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.0	6.5	6.0	7.0	6.0	6.5	6.0	6.5	6.0	6.5
DO (mg/L)	12.0	12.1	12.4	11.9	12.4	12.2	12.2	11.9	12.1	12.2	12.5	12.0	12.2	12.2
pH	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.5	7.4	7.4	7.4	7.4	7.3	7.3
Cond. (µS/cm)	1092	1055	1062	1051	1069	1053	1068	1074	1069	1044	1075	1049	1046	1041
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control-1	Control-2		
Hardness*	82	84		
Alkalinity*	30	24		

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [illegible]

Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Moose
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Concentration Moose 160	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.0	6.5	6.0	7.0	6.0	6.5	JAB 3:56.0	6.5	6.0	6.5
DO (mg/L)	12.0	12.1	12.4	11.9	12.4	11.9	12.2	12.0	12.1	12.2	12.6	12.0	12.2	12.2
pH	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.5	7.4	7.4	7.4	7.4	7.3	7.3
Cond. (µS/cm)	1718	1678	1704	1698	1709	1709	1703	1718	1721	1700	1738	1676	1701	1671
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration Moose 320	Days													
	32	34		38		39		41		45		46		48
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.5	6.5	6.0	7.0	6.0	6.0	JAB 3:56.0	6.5	6.0	6.5
DO (mg/L)	12.0	12.0	12.4	11.9	12.4	12.2	12.2	12.2	12.1	12.2	12.5	12.1	12.2	12.2
pH	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.5	7.4	7.4	7.4	7.4	7.3	7.3
Cond. (µS/cm)	2950	2880	2950	2940	2930	2920	2950	2980	2940	2910	2980	2880	2900	2860
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control-1	Control-2		
Hardness*	82	84		
Alkalinity*	30	24		

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [illegible]

Date reviewed: 8 May 2012

Sample Description:

Comments:

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Moose-Nitrate
Work Order #: n/a

Start Date & Time: Mar 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: S. namaycush

Moose Ctrl	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	7.0	6.0	6.5	6.0	7.0	6.0	7.0	6.5	7.0	7.0	7.5	7.0	8.0
DO (mg/L)	12.3	12.0	12.4	12.0	12.2	11.8	12.4	12.0	12.1	12.0	11.5	11.4	11.5	11.3
pH	7.4	7.2	7.3	7.2	7.3	7.4	7.4	7.3	7.3	7.5	7.3	7.4	7.4	7.4
Cond. (µS/cm)	396	397	401	391	390	389	390	390	396	398	400	394	397	394
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Moose 20	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.5	7.0	6.5	7.0	6.5	7.0	7.0	7.5	7.0	7.5
DO (mg/L)	12.3	12.0	12.4	12.1	12.1	11.8	12.3	12.0	12.2	12.0	11.8	11.4	11.5	11.3
pH	7.3	7.2	7.3	7.2	7.3	7.4	7.4	7.3	7.3	7.4	7.3	7.4	7.3	7.4
Cond. (µS/cm)	563	567	564	555	559	563	561	560	571	567	567	568	569	560
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

M 40	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.5	7.0	6.0	7.0	6.0	7.0	7.0	7.5	7.5	7.5
DO (mg/L)	12.2	12.0	12.5	12.1	12.1	11.8	12.4	12.1	12.2	12.0	11.9	11.4	11.4	11.3
pH	7.3	7.2	7.3	7.2	7.3	7.4	7.4	7.3	7.3	7.4	7.3	7.4	7.3	7.4
Cond. (µS/cm)	725	740	733	736	730	729	729	710	741	734	733	752	737	724
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		

M 80	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	7.0	6.5	7.0	6.0	7.0	6.5	7.0	7.0	7.5	7.0	7.5
DO (mg/L)	12.1	12.0	12.4	12.1	12.4	11.8	12.5	12.1	12.2	12.0	11.9	11.4	11.5	11.3
pH	7.3	7.2	7.3	7.2	7.3	7.4	7.4	7.4	7.3	7.4	7.3	7.4	7.3	7.4
Cond. (µS/cm)	1049	1056	1053	1055	1046	1063	1054	1027	1078	1045	1056	1062	1043	1042
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1 / DO-2 pH meter: pH-1 / pH-2 Conductivity meter: C-1 / C-2

	Control-1	Control-2	Control-3	
Hardness*	84	96	90	
Alkalinity*	24	30	26	

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [illegible]

Date reviewed: 15 May 2012

Sample Description:

Comments:

Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate-Moose
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: S. namaycush

M160

	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	7.0	6.5	7.0	6.0	7.0	6.5	7.0	7.0	7.5	7.0	8.0
DO (mg/L)	12.0	12.0	12.4	12.1	12.4	11.8	12.4	12.1	12.2	12.0	11.8	11.4	11.5	11.3
pH	7.3	7.2	7.3	7.2	7.3	7.4	7.4	7.4	7.3	7.4	7.3	7.4	7.3	7.4
Cond. (µS/cm)	1684	1710	1692	1639	1668	1744	1649	1621	1716	1678	1679	1685	1662	1661
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Moose 320

	Days													
	48	51		53		55		58		60		62		65
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	6.0	6.5	6.0	6.5	6.5	7.0	6.0	7.0	6.5	7.0	7.0	7.5	7.0	8.0
DO (mg/L)	12.0	12.0	12.3	12.1	12.0	11.8	12.3	12.1	12.2	12.0	11.6	11.4	11.5	11.3
pH	7.3	7.2	7.3	7.2	7.3	7.4	7.4	7.4	7.3	7.5	7.3	7.4	7.4	7.4
Cond. (µS/cm)	2910	2930	2920	2980	2900	2960	2890	2880	2980	2920	2950	2920	2910	2860
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 / DO-2 pH meter: pH-1 / pH-2 Conductivity meter: C-1 / C-2

	Control-1	Control-2	Control-3	
Hardness*	84	96	90	
Alkalinity*	24	30	26	

* mg/L as CaCO3

Analysts: JAB
Reviewed by: M
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate ~~Moose~~
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Moose Concentration Ctrl	Days														
	65	67		68		72		74		76		~~JAB~~ 78	79	~~JAB~~ 80	81
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)	7.0	7.0	7.0	7.5	7.0	7.5	7.0	7.5	7.0	7.0	7.0	7.5	7.0	7.5	
DO (mg/L)	11.3	12.0	12.2	12.0	12.0	11.5	11.2	11.6	11.7	11.5	11.7	11.3	11.3	11.7	
pH	7.3	7.4	7.4	7.5	7.4	7.4	7.3	7.5	7.4	7.3	7.4	7.3	7.4	7.3	
Cond. (µS/cm)	397	395	403	393	393	403	408	406	409	385	406	393	393	394	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Moose Concentration 20 mg/L N	Days														
	65	67		68		72		74		76		~~JAB~~ 78	79	~~JAB~~ 80	81
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)	7.0	7.0	6.5	7.5	7.0	7.5	7.0	7.5	7.0	7.0	7.0	8.0	7.0	7.5	
DO (mg/L)	11.4	12.0	12.2	12.0	12.0	11.5	10.3	11.6	11.8	11.5	11.8	11.3	11.4	11.7	
pH	7.3	7.4	7.4	7.5	7.4	7.4	7.3	7.5	7.3	7.3	7.4	7.3	7.4	7.3	
Cond. (µS/cm)	575	570	578	564	569	577	575	564	578	555	562	952	571	560	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Moose Concentration 40 mg/L	Days														
	65	67		68		72		74		76		79		~~JAB~~ 80	81
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)	7.0	7.0	7.0	7.5	7.0	7.5	7.0	7.5	7.0	7.0	7.0	8.0	7.0	7.5	
DO (mg/L)	11.5	12.0	12.2	12.0	12.0	11.5	11.2	11.6	11.8	11.5	11.8	11.3	11.3	11.7	
pH	7.4	7.4	7.4	7.5	7.3	7.4	7.4	7.5	7.4	7.3	7.4	7.3	7.4	7.3	
Cond. (µS/cm)	743	736	745	734	738	749	742	731	756	719	732	718	736	724	
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

Moose Concentration 80	Days														
	65	67		68		72		74		76		~~JAB~~ 78	79	~~JAB~~ 80	81
	old	new	old	new	old	new	old	new	old	new	old	new	old	new	
Temperature (°C)	7.0	7.0	7.0	7.5	7.0	7.5	7.0	7.5	7.0	7.0	7.0	8.0	7.0	7.5	
DO (mg/L)	11.4	12.0	12.2	12.0	12.0	11.5	11.4	11.6	11.7	11.5	11.9	11.3	11.3	11.7	
pH	7.3	7.4	7.4	7.5	7.4	7.4	7.4	7.5	7.3	7.3	7.3	7.3	7.4	7.3	
Cond. (µS/cm)	1068	1063	1067	1061	1067	1072	1073	1046	1074	1043	1049	1043	1066	1052	
Initials	~~JAB~~ JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB	

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control-1	Control-2	Control-3	
Hardness*	90	86	84	
Alkalinity*	26	26	26	

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Moose
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Moose Concentration 160 mg/L	Days													
	65	67		68		72		74		76		JAB 78	79	JAB 80 81
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.0	7.0	7.5	7.0	7.5	7.0	8.0	7.0	7.0	7.0	8.0	7.0	7.5
DO (mg/L)	11.4	12.0	12.7	12.0	12.1	11.5	11.4	11.6	11.8	11.5	11.7	11.3	11.3	11.7
pH	7.3	7.4	7.4	7.5	7.4	7.4	7.3	7.5	7.4	7.3	7.3	7.3	7.4	7.3
Cond. (µS/cm)	~~2950~~ 1709	1700	1707	1703	1700	1731	1717	1672	1732	1656	1684	1663	1716	1695
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Moose Concentration 320 mg/L	Days													
	65	67		68		72		74		76		JAB 78	79	JAB 80 81
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.0	7.0	7.5	7.0	7.5	7.0	8.0	7.5	7.0	7.0	8.0	7.0	7.5
DO (mg/L)	11.4	12.0	12.1	12.0	12.1	11.5	11.4	11.6	11.7	11.5	11.9	11.3	11.4	11.7
pH	7.3	7.4	7.4	7.5	7.3	7.3	7.3	7.5	7.4	7.3	7.3	7.3	7.4	7.3
Cond. (µS/cm)	2950	2920	2950	2900	2920	2960	2960	2850	2910	2850	2910	2880	2940	2920
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control-1	Control-2	Control-3	
Hardness*	90	86	84	
Alkalinity*	26	26	26	

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [illegible]

Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Moose
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Concentration: Cont Moose

	Days													
	81	84		86		88		90		93		95		97
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.5	7.0	7.5	7.0	7.5	7.0	7.5	7.5	8.0	7.0	7.5	7.5	7.5
DO (mg/L)	11.9	11.3	11.2	11.5	11.2	11.5	11.4	11.9	11.8	11.4	11.5	11.4	11.3	11.4
pH	7.3	7.4	7.4	7.5	7.4	7.4	7.4	7.4	7.4	7.6	7.4	7.5	7.4	7.4
Cond. (µS/cm)	396	399	398	404	406	397	403	410	420	400	408	403	413	394
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: M 20 mg/L

	Days													
	81	84		86		88		90		93		95		97
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.5	7.0	7.5	7.0	7.5	7.0	7.5	7.5	8.0	7.0	7.5	7.5	7.5
DO (mg/L)	11.9	11.3	11.4	11.5	11.5	11.5	11.3	11.9	11.8	11.4	11.5	11.4	11.3	11.4
pH	7.3	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.6	7.4	7.5	7.4	7.4
Cond. (µS/cm)	558	568	576	570	579	555	565	580	590	582	589	587	588	560
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: Moose 40 mg/L

	Days													
	81	84		86		88		90		93		95		97
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.5	7.0	7.5	7.0	7.5	7.0	7.5	7.0	8.0	7.0	7.5	7.5	7.5
DO (mg/L)	11.8	11.3	11.5	11.5	11.5	11.5	11.3	11.9	11.8	11.4	11.7	11.4	11.4	11.4
pH	7.3	7.4	7.3	7.4	7.4	7.4	7.3	7.4	7.3	7.6	7.4	7.5	7.4	7.4
Cond. (µS/cm)	720	725	736	730	740	719	730	736	758	748	751	756	751	720
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration: M 80 mg/L

	Days													
	81	84		86		88		90		93		95		97
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.5	7.0	7.5	7.0	8.0	7.0	7.5	7.0	8.0	7.0	7.5	7.5	7.5
DO (mg/L)	11.9	11.3	11.4	11.5	11.3	11.5	11.3	11.9	11.8	11.4	11.7	11.4	11.4	11.4
pH	7.3	7.4	7.3	7.3	7.34	7.4	7.3	7.4	7.3	7.6	7.4	7.5	7.4	7.4
Cond. (µS/cm)	1049	1046	1055	1058	1061	1038	1055	1052	1091	1072	1063	1090	1068	1045
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control-1	Control-2	Control-3	
Hardness*	84	86	82	
Alkalinity*	26	28	26	

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Moose
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Concentration M 160	Days													
	81	84		86		88		90		93		95		97
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.5	7.0	7.5	7.0	8.0	7.0	7.5	7.0	8.0	7.0	7.5	7.5	7.5
DO (mg/L)	11.9	11.3	11.4	11.5	11.8	11.5	11.2	11.9	11.9	11.4	11.8	11.4	11.4	11.4
pH	7.3	7.4	7.3	7.3	7.3	7.4	7.3	7.4	7.3	7.6	7.4	7.4	7.3	7.4
Cond. (µS/cm)	1674	1677	1706	1698	1712	1662	1690	1681	1730	1701	1704	1743	1702	1674
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration M 320 mg/L	Days													
	81	84		86		88		90		93		95		97
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.5	7.0	8.0	7.5	8.0	7.0	7.5	7.0	8.0	7.0	7.5	7.5	7.5
DO (mg/L)	11.9	11.3	11.4	11.5	11.7	11.5	11.2	11.9	11.9	11.4	11.8	11.4	11.5	11.4
pH	7.3	7.4	7.3	7.3	7.3	7.4	7.3	7.4	7.3	7.6	7.4	7.4	7.4	7.4
Cond. (µS/cm)	2890	2890	2970	2900	2960	2860	2930	2920	3010	2970	2960	2990	2980	2920
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control-1	Control-2	Control-3	
Hardness*	84	86	82	
Alkalinity*	26	28	26	

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate-Moose
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Concentration Control	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.0	7.5	7.0	7.0	7.0	7.5	7.5	7.5	7.0	8.0	7.0	7.5
DO (mg/L)	11.6	11.1	11.3	12.0	12.1	11.9	12.1	11.4	11.3	12.0	12.2	11.5	11.6	11.5
pH	7.4	7.3	7.3	7.3	7.4	7.3	7.3	7.4	7.3	7.3	7.1	7.3	7.2	7.3
Cond. (µS/cm)	401	392	399	394	408	389	393	387	392	400	405	403	412	407
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration 20	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.5	7.5	7.0	7.5	7.0	7.5	7.5	7.5	7.0	8.0	7.0	7.5
DO (mg/L)	11.5	11.1	11.3	12.0	12.1	11.9	12.2	11.4	11.3	12.0	12.2	11.5	11.6	11.5
pH	7.4	7.3	7.3	7.3	7.4	7.3	7.3	7.4	7.3	7.3	7.2	7.3	7.2	7.3
Cond. (µS/cm)	590	562	586	575	591	554	558	555	562	575	584	574	590	577
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration 40	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.5	7.5	7.0	7.5	7.0	7.5	7.5	7.5	7.0	8.0	7.0	7.5
DO (mg/L)	11.6	11.1	11.2	12.0	12.1	11.9	12.1	11.4	11.4	12.0	12.2	11.5	11.7	11.5
pH	7.4	7.3	7.3	7.3	7.4	7.3	7.3	7.4	7.3	7.3	7.2	7.3	7.3	7.3
Cond. (µS/cm)	755	727	741	753	766	723	740	722	729	751	758	741	767	749
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration 80	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	8.0	7.0	7.5	7.0	7.5	7.0	7.5	7.5	7.5	7.0	8.0	7.0	7.5
DO (mg/L)	11.5	11.1	11.1	12.0	12.1	11.9	12.1	11.4	11.4	12.0	12.3	11.5	11.7	11.5
pH	7.4	7.3	7.3	7.3	7.4	7.3	7.3	7.4	7.3	7.3	7.1	7.3	7.3	7.3
Cond. (µS/cm)	1075	1047	1068	1094	1091	1050	1076	1050	1062	1091	1096	1073	1109	1081
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control-1	Control-2	Control-3	
Hardness*	82	78	80	
Alkalinity*	26	24	26	

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [illegible]

Date reviewed: 16 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate-Moose
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Concentration 160	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.0	7.5	7.0	7.5	7.0	8.0	7.0	7.0	7.0	8.0	7.0	7.5
DO (mg/L)	11.5	11.1	11.2	12.0	12.1	11.9	12.1	11.4	11.4	12.0	12.2	11.5	11.8	11.5
pH	7.4	7.3	7.3	7.3	7.3	7.3	7.3	7.4	7.3	7.3	7.2	7.3	7.3	7.3
Cond. (µS/cm)	1721	1663	1724	1761	1762	1687	1724	1676	1709	1731	1764	1727	1771	1746
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration 320	Days													
	97	100		102		104		107		109		111		114
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.0	7.5	7.0	7.0	7.0	8.0	7.5	7.0	7.0	8.0	7.5	7.5
DO (mg/L)	11.5	11.1	11.1	12.0	12.1	11.9	12.0	11.4	11.5	12.0	12.3	11.5	11.8	11.5
pH	7.4	7.3	7.3	7.3	7.3	7.3	7.3	7.4	7.4	7.3	7.2	7.3	7.3	7.3
Cond. (µS/cm)	2970	2870	2980	3010	3030	2950	2950	2910	2940	3050	3040	2960	3070	2990
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control-1	Control-2	Control-3	
Hardness*	82	78	80	
Alkalinity*	26	24	26	

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [illegible]

Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Moose
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Moose Concentration Control	Days													
	114	116		118		121		123		125		128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.5	7.0	8.0	7.0	7.5	7.0	7.5	7.0	7.5	7.0	7.5	7.0	7.5
DO (mg/L)	11.6	11.5	12.0	11.4	11.4	11.7	11.8	11.9	11.9	11.6	11.8	11.5	11.1	11.9
pH	7.2	7.2	7.2	7.3	7.2	7.2	7.2	7.6	7.3	7.4	7.3	7.4	7.3	7.4
Cond. (µS/cm)	413	387	412	382	394	404	389	386	397	398	406	394	403	389
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Moose Concentration 20	Days													
	114	116		118		121		123		125		128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.5	7.5	7.0	8.0	7.0	7.5	7.0	8.0	7.5	7.5	7.0	7.5	7.0	7.5
DO (mg/L)	11.6	11.5	12.2	11.4	11.4	11.7	11.8	11.9	11.9	11.6	11.8	11.5	11.3	11.9
pH	7.2	7.2	7.2	7.3	7.2	7.2	7.3	7.6	7.3	7.4	7.2	7.4	7.2	7.4
Cond. (µS/cm)	591	7567	589	534	565	581	551	559	566	578	597	570	580	561
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Moose Concentration 40	Days													
	114	116		118		121		123		125		128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	7.5	7.0	8.0	7.0	7.5	7.0	8.0	7.0	7.5	7.0	7.5	7.0	7.5
DO (mg/L)	11.6	11.5	12.0	11.4	11.5	11.7	11.8	11.9	11.9	11.6	11.7	11.5	11.5	11.9
pH	7.2	7.2	7.2	7.3	7.3	7.2	7.3	7.6	7.3	7.4	7.3	7.4	7.3	7.4
Cond. (µS/cm)	767	749	761	701	751	755	726	729	736	761	768	750	758	741
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Moose Concentration 80	Days													
	114	116		118		121		123		125		128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.0	8.0	7.0	7.5	7.0	8.0	7.5	8.0	7.0	7.5	7.0	7.5
DO (mg/L)	11.6	11.5	11.9	11.4	11.5	11.7	11.8	11.9	12.0	11.6	11.7	11.5	11.2	11.9
pH	7.023	7.2	7.2	7.3	7.3	7.2	7.2	7.6	7.3	7.4	7.3	7.4	7.3	7.4
Cond. (µS/cm)	1112	1088	1104	1019	1076	1087	1050	1062	1065	1094	1119	1063	1081	1056
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

DO meter: DO-1 / DO-2 **pH meter:** pH-1 / pH-2 **Conductivity meter:** C-1 / C-2

	Control-1	Control-2		
Hardness*	80	90		
Alkalinity*	26	28		

* mg/L as CaCO3

Analysts: JAB
Reviewed by: M
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Moose
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Moose Concentration 160	Days													
	114	116		118		121		123		125		128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.0	8.0	7.0	7.5	7.0	8.0	7.0	8.0	7.0	7.5	7.0	7.5
DO (mg/L)	11.6	11.5	11.9	11.4	11.6	11.7	11.8	11.9	12.0	11.6	11.7	11.5	11.6	11.9
pH	7.2	7.2	7.2	7.3	7.3	7.2	7.2	7.0	7.3	7.4	7.3	7.4	7.3	7.4
Cond. (µS/cm)	1788	1744	1772	1631	1736	1730	1684	1706	1707	1770	1800	1714	1764	1689
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Moose Concentration 320	Days													
	114	116		118		121		123		125		126 128		130
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	7.5	7.0	7.5
DO (mg/L)	11.7	11.5	11.9	11.4	11.6	11.7	11.8	11.9	12.0	11.6	11.6	11.5	11.6	11.9
pH	7.2	7.2	7.2	7.3	7.3	7.2	7.3	7.6	7.3	7.4	7.3	7.4	7.3	7.4
Cond. (µS/cm)	3030	2980	3100	2880	3040	2940	2900	2940	2980	3020	3110	2970	2990	2920
Initials	JAB	JAB		JAB		JAB		JAB		JAB		JAB		JAB

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1/DO-2 **pH meter:** pH-1/pH-2 **Conductivity meter:** C-1/C-2

	Control-1	Control-2		
Hardness*	80	90		
Alkalinity*	26	28		

* mg/L as CaCO3

Analysts: JAB

Reviewed by: [illegible]

Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Moose
Work Order #: n/a
Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Moose Concentration Control	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.0											
DO (mg/L)	12.1		11.8											
pH	7.5		7.3											
Cond. (µS/cm)	385		390											
Initials	JAB		JAB											

Moose Concentration 20	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.0											
DO (mg/L)	12.1		11.9											
pH	7.5		7.3											
Cond. (µS/cm)	559		573											
Initials	JAB		JAB											

Moose Concentration 40	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.0											
DO (mg/L)	12.2		11.9											
pH	7.5		7.3											
Cond. (µS/cm)	722		710											
Initials	JAB		JAB											

Moose Concentration 80	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.0											
DO (mg/L)	12.2		12.0											
pH	7.6		7.3											
Cond. (µS/cm)	1066		1061											
Initials	JAB		JAB											

DO meter: DO-1 / DO-2 **pH meter:** pH-1/pH-2 **Conductivity meter:** C-1 / C-2

	Control-1			
Hardness*	90			
Alkalinity*	28			

* mg/L as CaCO3

Analysts: JAB
Reviewed by: [illegible]
Date reviewed: 15 May 2012

Sample Description:

Comments:

7-d Chronic Freshwater Toxicity Test
Initial and Final Water Quality Measurements

Client: Rescan
Sample ID: Nitrate - Moose
Work Order #: n/a

Start Date & Time: Nov 19/11 @ 1045h
Stop Date & Time: Mar 30/12
Test Species: *S. namaycush*

Moose Concentration 160	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.0											
DO (mg/L)	12.2		11.7											
pH	7.5		7.3											
Cond. (µS/cm)	1687		1694											
Initials	JAB		JAB											

Moose Concentration 320	Days													
	130	132												
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)	7.0		7.0											
DO (mg/L)	12.2		11.9											
pH	7.6		7.3											
Cond. (µS/cm)	2940		2950											
Initials	JAB		JAB											

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

Concentration	Days													
	old	new	old	new	old	new	old	new	old	new	old	new	old	new
Temperature (°C)														
DO (mg/L)														
pH														
Cond. (µS/cm)														
Initials														

DO meter: DO-1/DO-2 **pH meter:** pH-1/pH-2 **Conductivity meter:** C-1/C-2

	Control-1			
Hardness*	90			
Alkalinity*	28			

* mg/L as CaCO3

Analysts: JAB

Reviewed by: N

Date reviewed: 15 May 2012

Sample Description:

Comments:

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose cont. A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1310h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
25	1	19	2.08	109	JW
28	0				
27	0				
28	1				
28	0				
29	0				
27	0				
29	0				
27	1				
27	0				
27	1				
27	0				
28	0				
28	0				
27	1				
27	0				
27	0				
27	1				
29	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose Control B

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1210h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
27	1	22	3.17	144	JAB
29	0				
28	1				
28	0				
28	0				
28	1				
28	0				
27	1				
28	1				
26	1				
28	0				
28	0				
27	0				
28	0				
26	0				
27	1				
27	1				
28	0				
28	0				
27	0				
29	0				
27	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose cont - C

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1225h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
29	0	13	1.54	118	JW
27	JW ~~0~~ 1				
27	JW ~~0~~ 1				
27	0				
27	1				
28	1				
27	1				
28	0				
27	1				
27	1				
28	0				
28	1				
28	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose Control D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1430h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
26	1	22	2.80	127	JAB
25	1				
26	0				
26	0				
27	0				
25	0				
25	1				
26	1				
26	1				
25	1				
27	0				
27	0				
27	0				
25	1				
27	0				
26	0				
26	0				
25	0				
24	1				
26	1				
24	1				
26	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 20A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1215h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
28	1	17	1.92	113	JW
28	0				
28	0				
28	1				
28	0				
29	0				
27	0				
28	1				
28	0				
28	0				
28	1				
28	1				
27	1				
27	0				
27	0				
25	1				
28	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 20B

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1410h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
31	1	15	2.26	151	JW
30	1				
30	0				
27	1				
30	1				
29	0				
29	1				
29	1				
29	0				
30	1				
30	0				
30	0				
30	1				
29	0				
29	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 20 C

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1240h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
28	1	13	1.57	121	JW
28	1				
27	0				
28	0				
27	1				
27	0				
29	1				
28	1				
27	0				
27	1				
27	0				
27	0				
27	1				

Reviewed by: _____

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 20 D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1420h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
28	1	23	3.02	131	JAB
28	1				
28	0				
27	0				
28	0				
27	1				
27	1				
26	1				
28	0				
26	1				
28	0				
27	1				
27	0				
28	0				
27	0				
27	1				
27	1				
26	0				
26	0				
26	0				
27	0				
27	1				
26	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 40 A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1400h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
28	0	17	1.95	115	JW
28	1				
28	1				
28	0				
28	1				
28	0				
28	0				
27	1				
28	0				
28	0				
28	0				
28	0				
28	0				
29	0				
28	0				
27	0				
27	0				

Reviewed by: _____

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 4013

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1220h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
27	0	22	3.12	142	SBF
25	0				
28	0				
28	0				
26	0				
27	0				
29	0				
27	1				
29	0				
28	0				
28	0				
27	0				
26	0				
26	1				
30	1				
25	0				
26	0				
26	0				
26	0				
26	0				
27	0				
25	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 40C

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
24	1	15	1.77	118	JBF
24	1				
23	1				
26	1				
25	1				
24	0				
25	0				
25	1				
21	3				
24	1				
25	2				
25	1				
25	1				
24	2				
24	1				

Reviewed by: _____

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 40 D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1300h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
27	1	27	3.34	124	JBF
29	0				
28	0				
28	1				
28	0				
28	1				
27	0				
27	1				
26	0				
26	0				
28	0				
28	0				
25	1				
26	1				
27	1				
27	1				
25	1				
26	0				
26	0				
26	0				
27	0				
26	0				
27	0				
25	0				
26	2				
27	1				
27	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 80 A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1215h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
24	1	15	1.69	113	JAB
25	0				
27	0				
26	1				
27	0				
22	1				
26	1				
25	0				
26	0				
26	0				
25	0				
25	1				
26	0				
26	0				
25	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 80 B

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1240h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
30	1	20	2.84	142	JW
30	1				
30	1				
29	0				
28	1				
29	1				
30	0				
30	1				
30	1				
29	1				
30	1				
29	1				
28	1				
28	1				
29	1				
29	1				
29	0				
30	1				
30	1				
29	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 80 C

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 10 30h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
26	1	12	1.42	118	JBF
26	0				
25	0				
28	1				
26	0				
26	0				
26	1				
27	1				
26	0				
27	0				
25	0				
26	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 80D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1400h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
28	1	25	3.22	129	JAB
25	0				
25	0				
27	0				
25	1				
27	1				
26	0				
27	0				
26	1				
26	0				
26	1				
27	1				
28	0				
27	0				
26	0				
26	0				
26	0				
27	1				
27	1				
26	0				
27	0				
26	0				
26	0				
26	0				
26	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 160 A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1425
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
25	0	18	2.03	113	JAB
25	0				
25	1				
25	0				
26	0				
26	1				
26	1				
26	0				
25	0				
26	0				
26	0				
26	0				
27	0				
28	0				
26	0				
25	1				
25	0				
26	1				

Reviewed by: _____

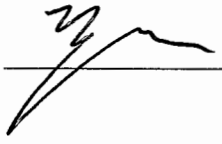
Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 160 B

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1030h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism(mg)	Initials
27	0	17	2.43	143	JAB
26	0				
26	0				
29	1				
27	0				
27	0				
26	1				
27	1				
27	1				
26	0				
25	1				
27	1				
27	0				
26	0				
25	1				
27	1				
25	0				

Reviewed by: 

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 160 c

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1240h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
27	0	21	2.54	121	JKB
26	1				
26	1				
26	0				
30	2*				
26	1				
28	1				
26	1				
26	1				
26	0				
25	0				
26	0				
27	0				
26	1				
28	0				
27	1				
25	0				
26	0				
27	1				
26	1				
26	1				

* skeletal deformities

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 160 D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1225h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
26	1	24	3.14	131	JAB
25	0				
27	1				
26	1				
27	0				
28	0				
28	0				
27	1				
27	0				
26	0				
26	1				
27	0				
28	1				
26	1				
27	0				
26	0				
26	0				
28	2				
26	0				
27	1				
26	0				
27	1				
24	1				
27	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: M 320 A

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1255h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism(mg)	Initials
28	0	16	1.79	112	JW
27	0				
27	1				
27	0				
27	0				
27	0				
27	0				
27	0				
27	0				
26	0				
27	0				
27	0				
27	0				
25	0				
28	0				
27	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 320 B

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1415h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
30	0	15	2.18	145	SBF
29	0				
30	1				
29	1				
30	0				
30	0				
30	1				
28	0				
27	0				
25	0				
30	1				
28	0				
28	0				
27	0				
29	0				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 320 C

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1420h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
24	1	20	2.37	~~JMB~~ 118	JMB
25	1				
25	0				
25	0				
26	1				
24	0				
24	1				
~~*~~25	0				
25	1				
25	0				
25	2				
26	1				
25	0				
26	1				
25	1				
27	1				
26	1				
26	1				
26	0				
25	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Embryo-Alevin-Fry Toxicity Test
Length, Weight and Growth

Sample ID: Moose 320 D

Start Date & Time: Nov 19/11 @ 1045h
Stop Date: Mar 30/12 @ 1420h
Test Species: *S. namaycush*

Length (mm)	Yolk Sac Score/ Growth (0-3)	# Weighed	Total Weight (g)	Weight per organism (mg)	Initials
26	0	22	2.79	127	JAB
27	1				
27	0				
26	1				
26	0				
27	1				
24	1				
25	0				
24	0				
26	1				
27	0				
26	1				
26	0				
26	0				
26	1				
25	0				
27	1				
27	0				
27	0				
26	0				
27	1				
27	1				

Reviewed by: [signature]

Date reviewed: 15 May 2012

Attachment FS-C: POPCs Goose Lake

Support Sabina response to KIA-TC-07 & 08, Part(s) 2

This workbook was prepared in response to KIA-TC-7 part 2 and KIA-TC-8 part 2.

It contains Goose Lake hydrodynamic model predictions for the POPCs at 5 locations.
ARC100 = maximum model predictions along an arc 100 m from the discharge point.
ARC200 = maximum model predictions along an arc 200 m from the discharge point.
ARC500 = maximum model predictions along an arc 500 m from the discharge point.
ARC1000 = maximum model predictions along an arc 1000 m from the discharge point.
Tail = maximum model predictions in the tail of Goose Lake.

Each worksheet includes:
Hardness concentrations, which were calculated from predicted calcium and magnesium concentrations (Column H).
pH (Row 2)
Dissolved organic carbon concentrations (Row 3)

The results in this workbook were presented in Appendix A of the EQC Report (Golder 2021).

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Sep-2021	12.000000	3.515000	3.600000	1.900000	16.601155	0.005000	0.001000	0.005000	0.014000	0.000240	0.001500	0.032000	0.000015	0.003500	0.001100	0.000250	0.002500
16-Sep-2021	11.091954	3.516340	3.601370	1.900720	16.607466	0.005002	0.001000	0.005002	0.014005	0.000240	0.001501	0.032012	0.000015	0.003501	0.001100	0.000250	0.002501
17-Sep-2021	10.796673	3.517440	3.602500	1.901320	16.612683	0.005003	0.001001	0.005003	0.014010	0.000240	0.001501	0.032022	0.000015	0.003502	0.001101	0.000250	0.002502
18-Sep-2021	10.291733	3.518130	3.603210	1.901690	16.615930	0.005004	0.001001	0.005004	0.014013	0.000240	0.001501	0.032029	0.000015	0.003503	0.001101	0.000250	0.002502
19-Sep-2021	10.031641	3.518990	3.604090	1.902160	16.620013	0.005006	0.001001	0.005006	0.014016	0.000240	0.001502	0.032036	0.000015	0.003504	0.001101	0.000250	0.002503
20-Sep-2021	9.645818	3.520150	3.605280	1.902780	16.625463	0.005007	0.001001	0.005007	0.014021	0.000240	0.001502	0.032047	0.000015	0.003505	0.001102	0.000250	0.002504
21-Sep-2021	9.091467	3.520320	3.605450	1.902880	16.626299	0.005008	0.001002	0.005008	0.014021	0.000240	0.001502	0.032048	0.000015	0.003505	0.001102	0.000250	0.002504
22-Sep-2021	8.843529	3.521160	3.606310	1.903330	16.630249	0.005009	0.001002	0.005009	0.014025	0.000240	0.001503	0.032056	0.000015	0.003506	0.001102	0.000250	0.002504
23-Sep-2021	8.568743	3.522570	3.607750	1.904090	16.636900	0.005011	0.001002	0.005011	0.014030	0.000241	0.001503	0.032069	0.000015	0.003508	0.001102	0.000251	0.002505
24-Sep-2021	8.591159	3.525690	3.610950	1.905780	16.651650	0.005015	0.001003	0.005015	0.014043	0.000241	0.001505	0.032097	0.000015	0.003511	0.001103	0.000251	0.002508
25-Sep-2021	7.744700	3.525190	3.610430	1.905510	16.649290	0.005014	0.001003	0.005014	0.014041	0.000241	0.001504	0.032093	0.000015	0.003510	0.001103	0.000251	0.002507
26-Sep-2021	6.626261	3.526910	3.612200	1.906440	16.657414	0.005017	0.001003	0.005017	0.014047	0.000241	0.001505	0.032108	0.000015	0.003512	0.001104	0.000251	0.002508
27-Sep-2021	6.021998	3.527110	3.612410	1.906550	16.658367	0.005017	0.001003	0.005017	0.014048	0.000241	0.001505	0.032110	0.000015	0.003512	0.001104	0.000251	0.002509
28-Sep-2021	5.186522	3.529140	3.614480	1.907640	16.667924	0.005020	0.001004	0.005020	0.014056	0.000241	0.001506	0.032129	0.000015	0.003514	0.001104	0.000251	0.002510
29-Sep-2021	5.007886	3.531720	3.617130	1.909040	16.680132	0.005024	0.001005	0.005024	0.014067	0.000241	0.001507	0.032152	0.000015	0.003517	0.001105	0.000251	0.002512
30-Sep-2021	5.064948	3.532360	3.617780	1.909380	16.683130	0.005025	0.001005	0.005025	0.014069	0.000241	0.001507	0.032158	0.000015	0.003517	0.001105	0.000251	0.002512
1-Oct-2021	4.843489	3.534480	3.619950	1.910530	16.693159	0.005028	0.001006	0.005028	0.014078	0.000241	0.001508	0.032177	0.000015	0.003519	0.001106	0.000251	0.002514
2-Oct-2021	4.608550	3.531590	3.616990	1.908970	16.679519	0.005024	0.001005	0.005024	0.014066	0.000241	0.001507	0.032151	0.000015	0.003517	0.001105	0.000251	0.002512
3-Oct-2021	4.482591	3.530020	3.615390	1.908120	16.672098	0.005021	0.001004	0.005021	0.014060	0.000241	0.001506	0.032137	0.000015	0.003515	0.001105	0.000251	0.002511
4-Oct-2021	4.492993	3.529560	3.614910	1.907870	16.669920	0.005021	0.001004	0.005021	0.014058	0.000241	0.001506	0.032133	0.000015	0.003515	0.001105	0.000251	0.002510
5-Oct-2021	3.772397	3.532220	3.617630	1.909310	16.682492	0.005024	0.001005	0.005024	0.014069	0.000241	0.001507	0.032157	0.000015	0.003517	0.001105	0.000251	0.002512
6-Oct-2021	3.039182	3.530690	3.616070	1.908480	16.675254	0.005022	0.001004	0.005022	0.014063	0.000241	0.001507	0.032143	0.000015	0.003516	0.001105	0.000251	0.002511
7-Oct-2021	2.803016	3.529100	3.614440	1.907620	16.667742	0.005020	0.001004	0.005020	0.014056	0.000241	0.001506	0.032128	0.000015	0.003514	0.001104	0.000251	0.002510
8-Oct-2021	2.294894	3.530270	3.615640	1.908250	16.673258	0.005022	0.001004	0.005022	0.014061	0.000241	0.001507	0.032139	0.000015	0.003515	0.001105	0.000251	0.002511
9-Oct-2021	1.105585	3.530250	3.615610	1.908240	16.673167	0.005022	0.001004	0.005022	0.014061	0.000241	0.001507	0.032139	0.000015	0.003515	0.001105	0.000251	0.002511
10-Oct-2021	0.121868	3.530320	3.615690	1.908280	16.673506	0.005022	0.001004	0.005022	0.014061	0.000241	0.001507	0.032140	0.000015	0.003515	0.001105	0.000251	0.002511
11-Oct-2021	0.158115	3.528410	3.613730	1.907250	16.664495	0.005019	0.001004	0.005019	0.014053	0.000241	0.001506	0.032122	0.000015	0.003513	0.001104	0.000251	0.002510
12-Oct-2021	0.198907	3.527630	3.612930	1.906820	16.660777	0.005018	0.001004	0.005018	0.014050	0.000241	0.001505	0.032115	0.000015	0.003513	0.001104	0.000251	0.002509
13-Oct-2021	0.358092	3.527380	3.612680	1.906690	16.659617	0.005018	0.001004	0.005018	0.014049	0.000241	0.001505	0.032113	0.000015	0.003512	0.001104	0.000251	0.002509
14-Oct-2021	0.071789	3.527130	3.612420	1.906550	16.658417	0.005017	0.001003	0.005017	0.014048	0.000241	0.001505	0.032110	0.000015	0.003512	0.001104	0.000251	0.002509
15-Oct-2021	0.069198	3.526470	3.611740	1.906200	16.655327	0.005016	0.001003	0.005016	0.014046	0.000241	0.001505	0.032104	0.000015	0.003511	0.001104	0.000251	0.002508
16-Oct-2021	0.075716	3.529080	3.614420	1.907610	16.667651	0.005020	0.001004	0.005020	0.014056	0.000241	0.001506	0.032128	0.000015	0.003514	0.001104	0.000251	0.002510
17-Oct-2021	0.075520	3.568780	3.655080	1.929070	16.855154	0.005077	0.001015	0.005077	0.014214	0.000244	0.001523	0.032490	0.000015	0.003554	0.001117	0.000254	0.002538
18-Oct-2021	0.078431	3.597120	3.684100	1.944390	16.989007	0.005117	0.001023	0.005117	0.014327	0.000246	0.001535	0.032748	0.000015	0.003582	0.001126	0.000256	0.002558
19-Oct-2021	0.081579	3.626850	3.714560	1.960460	17.129419	0.005159	0.001032	0.005159	0.014446	0.000248	0.001548	0.033018	0.000015	0.003611	0.001135	0.000258	0.002580
20-Oct-2021	0.082534	3.656320	3.744740	1.976390	17.268605	0.005201	0.001040	0.005201	0.014563	0.000250	0.001560	0.033287	0.000016	0.003641	0.001144	0.000260	0.002601
21-Oct-2021	0.080762	3.684150	3.773240	1.991430	17.400031	0.005241	0.001048	0.005241	0.014674	0.000252	0.001572	0.033540	0.000016	0.003668	0.001153	0.000262	0.002620
22-Oct-2021	0.075190	3.715350	3.805190	2.008300	17.547408	0.005285	0.001057	0.005285	0.014798	0.000254	0.001586	0.033824	0.000016	0.003699	0.001163	0.000264	0.002642
23-Oct-2021	0.072339	3.752820	3.843570	2.028550	17.724360	0.005338	0.001068	0.005338	0.014947	0.000256	0.001601	0.034165	0.000016	0.003737	0.001174	0.000267	0.002669
24-Oct-2021	0.070565	3.785370	3.876910	2.046150	17.878115	0.005385	0.001077	0.005385	0.015077	0.000258	0.001615	0.034461	0.000016	0.003769	0.001185	0.000269	0.002692
25-Oct-2021	0.068818	3.820340	3.912730	2.065050	18.043265	0.005434	0.001087	0.005434	0.015216	0.000261	0.001630	0.034780	0.000016	0.003804	0.001196	0.000272	0.002717
26-Oct-2021	0.066812	3.854200	3.947410	2.083350	18.203173	0.005483	0.001097	0.005483	0.015351	0.000263	0.001645	0.035088	0.000016	0.003838	0.001206	0.000274	0.002741
27-Oct-2021	0.065700	3.896350	3.990570	2.106140	18.402270	0.005542	0.001108	0.005542	0.015519	0.000266	0.001663	0.035472	0.000017	0.003880	0.001219	0.000277	0.002771
28-Oct-2021	0.064553	3.936640	4.031830	2.127910	18.592523	0.005600	0.001120	0.005600	0.015679	0.000269	0.001680	0.035839	0.000017	0.003920	0.001232	0.000280	0.002800
29-Oct-2021	0.063719	3.978710	4.074920	2.150650	18.791216	0.005660	0.001132	0.005660	0.015847	0.000272	0.001698	0.036222	0.000017	0.003962	0.001245	0.000283	0.002830
30-Oct-2021	0.063737	4.016970	4.114110	2.171340	18.971952	0.005714	0.001143	0.005714	0.015999	0.000274	0.001714	0.036570	0.000017	0.004000	0.001257	0.000286	0.002857
31-Oct-2021	0.063818	4.051350	4.149320	2.189920	19.134312	0.005763	0.001153	0.005763	0.016136	0.000277	0.001729	0.036883	0.000017	0.004034	0.001268	0.000288	0.002881
1-Nov-2021	0.063801	4.094370	4.193380	2.213170	19.337476	0.005824	0.001165	0.005824	0.016308	0.000280	0.001747	0.037275	0.000017	0.004077	0.001281	0.000291	0.002912
2-Nov-2021	0.063693	4.140230	4.240350	2.237960	19.554074	0.005889	0.001178	0.005889	0.016490	0.000283	0.001767	0.037692	0.000018	0.004123	0.001296	0.000294	0.002945
3-Nov-2021	0.063313	4.178760	4.279810	2.258790	19.736061	0.005944	0.001189	0.005944	0.016644	0.000285	0.001783	0.038043	0.000018	0.004161	0.001308	0.000297	0.002972
4-Nov-2021	0.062918	4.210500	4.312320	2.275950	19.885981	0.005989	0.001198	0.005989	0.016770	0.000287	0.001797	0.038332	0.000018	0.004193	0.001318	0.000299	0.002995
5-Nov-2021	0.062537	4.240780	4.343330	2.292310	20.028960	0.006032	0.001206	0.006032	0.016891	0.000290	0.001810	0.038607	0.000018	0.004223	0.001327	0.000302	0.003016

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Nov-2021	0.062340	4.272700	4.376030	2.309570	20.179741	0.006078	0.001216	0.006078	0.017018	0.000292	0.001823	0.038898	0.000018	0.004254	0.001337	0.000304	0.003039
7-Nov-2021	0.062195	4.313430	4.417740	2.331580	20.372081	0.006136	0.001227	0.006136	0.017180	0.000295	0.001841	0.039269	0.000018	0.004295	0.001350	0.000307	0.003068
8-Nov-2021	0.062049	4.362140	4.467620	2.357910	20.602137	0.006205	0.001241	0.006205	0.017374	0.000298	0.001862	0.039712	0.000019	0.004344	0.001365	0.000310	0.003103
9-Nov-2021	0.061888	4.399880	4.506280	2.378310	20.780381	0.006259	0.001252	0.006259	0.017524	0.000300	0.001878	0.040056	0.000019	0.004381	0.001377	0.000313	0.003129
10-Nov-2021	0.061765	4.438970	4.546310	2.399440	20.965002	0.006314	0.001263	0.006314	0.017680	0.000303	0.001894	0.040412	0.000019	0.004420	0.001389	0.000316	0.003157
11-Nov-2021	0.061578	4.478980	4.587290	2.421070	21.153979	0.006371	0.001274	0.006371	0.017840	0.000306	0.001911	0.040776	0.000019	0.004460	0.001402	0.000319	0.003186
12-Nov-2021	0.061450	4.519690	4.628980	2.443070	21.346228	0.006429	0.001286	0.006429	0.018002	0.000309	0.001929	0.041147	0.000019	0.004500	0.001414	0.000321	0.003215
13-Nov-2021	0.061436	4.562980	4.673330	2.466480	21.550726	0.006491	0.001298	0.006491	0.018174	0.000312	0.001947	0.041541	0.000019	0.004544	0.001428	0.000325	0.003245
14-Nov-2021	0.061652	4.600900	4.712160	2.486970	21.729790	0.006545	0.001309	0.006545	0.018325	0.000314	0.001963	0.041886	0.000020	0.004581	0.001440	0.000327	0.003272
15-Nov-2021	0.061778	4.642950	4.755230	2.509700	21.928391	0.006604	0.001321	0.006604	0.018493	0.000317	0.001981	0.042269	0.000020	0.004623	0.001453	0.000330	0.003302
16-Nov-2021	0.061758	4.680080	4.793250	2.529770	22.103753	0.006657	0.001331	0.006657	0.018640	0.000320	0.001997	0.042607	0.000020	0.004660	0.001465	0.000333	0.003329
17-Nov-2021	0.061663	4.705030	4.818810	2.543260	22.221605	0.006693	0.001339	0.006693	0.018740	0.000321	0.002008	0.042834	0.000020	0.004685	0.001472	0.000335	0.003346
18-Nov-2021	0.061672	4.727430	4.841750	2.555370	22.327406	0.006725	0.001345	0.006725	0.018829	0.000323	0.002017	0.043038	0.000020	0.004707	0.001479	0.000336	0.003362
19-Nov-2021	0.062003	4.756050	4.871060	2.570840	22.462576	0.006765	0.001353	0.006765	0.018943	0.000325	0.002030	0.043298	0.000020	0.004736	0.001488	0.000338	0.003383
20-Nov-2021	0.062322	4.790220	4.906060	2.589310	22.623958	0.006814	0.001363	0.006814	0.019079	0.000327	0.002044	0.043609	0.000020	0.004770	0.001499	0.000341	0.003407
21-Nov-2021	0.062242	4.826310	4.943020	2.608810	22.794376	0.006865	0.001373	0.006865	0.019223	0.000330	0.002060	0.043938	0.000021	0.004806	0.001510	0.000343	0.003433
22-Nov-2021	0.062107	4.850720	4.968020	2.622010	22.909685	0.006900	0.001380	0.006900	0.019320	0.000331	0.002070	0.044160	0.000021	0.004830	0.001518	0.000345	0.003450
23-Nov-2021	0.061945	4.874760	4.992650	2.635010	23.023247	0.006934	0.001387	0.006934	0.019416	0.000333	0.002080	0.044379	0.000021	0.004854	0.001526	0.000347	0.003467
24-Nov-2021	0.066432	4.635210	4.747300	2.505520	21.891851	0.006593	0.001319	0.006593	0.018462	0.000316	0.001978	0.042198	0.000020	0.004615	0.001451	0.000330	0.003297
25-Nov-2021	0.065957	4.656120	4.768720	2.516820	21.990596	0.006623	0.001325	0.006623	0.018545	0.000318	0.001987	0.042389	0.000020	0.004636	0.001457	0.000331	0.003312
26-Nov-2021	0.065553	4.682750	4.795990	2.531220	22.116391	0.006661	0.001332	0.006661	0.018651	0.000320	0.001998	0.042631	0.000020	0.004663	0.001465	0.000333	0.003331
27-Nov-2021	0.065157	4.710020	4.823920	2.545960	22.245183	0.006700	0.001340	0.006700	0.018760	0.000322	0.002010	0.042879	0.000020	0.004690	0.001474	0.000335	0.003350
28-Nov-2021	0.064764	4.744340	4.859070	2.564510	22.407269	0.006749	0.001350	0.006749	0.018896	0.000324	0.002025	0.043192	0.000020	0.004724	0.001485	0.000337	0.003374
29-Nov-2021	0.064563	4.776090	4.891590	2.581670	22.557214	0.006794	0.001359	0.006794	0.019023	0.000326	0.002038	0.043481	0.000020	0.004756	0.001495	0.000340	0.003397
30-Nov-2021	0.064919	4.792120	4.908010	2.590340	22.632944	0.006817	0.001363	0.006817	0.019087	0.000327	0.002045	0.043627	0.000020	0.004772	0.001500	0.000341	0.003408
1-Dec-2021	0.065377	4.840190	4.957230	2.616320	22.859960	0.006885	0.001377	0.006885	0.019278	0.000330	0.002066	0.044064	0.000021	0.004820	0.001515	0.000344	0.003443
2-Dec-2021	0.065446	4.902250	5.020800	2.649870	23.153083	0.006973	0.001395	0.006973	0.019525	0.000335	0.002092	0.044629	0.000021	0.004881	0.001534	0.000349	0.003487
3-Dec-2021	0.065232	4.917880	5.036800	2.658310	23.226867	0.006996	0.001399	0.006996	0.019588	0.000336	0.002099	0.044772	0.000021	0.004897	0.001539	0.000350	0.003498
4-Dec-2021	0.065008	4.912400	5.031190	2.655350	23.200994	0.006988	0.001398	0.006988	0.019566	0.000335	0.002096	0.044722	0.000021	0.004891	0.001537	0.000349	0.003494
5-Dec-2021	0.064879	4.913240	5.032050	2.655800	23.204945	0.006989	0.001398	0.006989	0.019569	0.000335	0.002097	0.044729	0.000021	0.004892	0.001538	0.000349	0.003494
6-Dec-2021	0.064808	4.922160	5.041190	2.660630	23.247108	0.007002	0.001400	0.007002	0.019605	0.000336	0.002101	0.044811	0.000021	0.004901	0.001540	0.000350	0.003501
7-Dec-2021	0.064786	4.931620	5.050880	2.665740	23.291772	0.007015	0.001403	0.007015	0.019642	0.000337	0.002105	0.044897	0.000021	0.004911	0.001543	0.000351	0.003508
8-Dec-2021	0.064770	4.952180	5.071930	2.676850	23.388862	0.007044	0.001409	0.007044	0.019724	0.000338	0.002113	0.045084	0.000021	0.004931	0.001550	0.000352	0.003522
9-Dec-2021	0.064750	5.000890	5.121820	2.703180	23.618918	0.007114	0.001423	0.007114	0.019918	0.000341	0.002134	0.045527	0.000021	0.004980	0.001565	0.000356	0.003557
10-Dec-2021	0.064761	5.051160	5.173310	2.730360	23.856369	0.007185	0.001437	0.007185	0.020118	0.000345	0.002156	0.045985	0.000022	0.005030	0.001581	0.000359	0.003593
11-Dec-2021	0.064799	4.935180	5.054530	2.667670	23.308610	0.007020	0.001404	0.007020	0.019657	0.000337	0.002106	0.044929	0.000021	0.004914	0.001544	0.000351	0.003510
12-Dec-2021	0.064706	4.904360	5.022960	2.651010	23.163046	0.006976	0.001395	0.006976	0.019534	0.000335	0.002093	0.044649	0.000021	0.004883	0.001535	0.000349	0.003488
13-Dec-2021	0.064753	4.871300	4.989100	2.633140	23.006907	0.006929	0.001386	0.006929	0.019402	0.000333	0.002079	0.044348	0.000021	0.004851	0.001524	0.000346	0.003465
14-Dec-2021	0.064855	4.881350	4.999390	2.638570	23.054362	0.006944	0.001389	0.006944	0.019442	0.000333	0.002083	0.044439	0.000021	0.004861	0.001528	0.000347	0.003472
15-Dec-2021	0.065042	4.888280	5.006480	2.642310	23.087068	0.006953	0.001391	0.006953	0.019470	0.000334	0.002086	0.044502	0.000021	0.004867	0.001530	0.000348	0.003477
16-Dec-2021	0.065215	4.852090	4.969420	2.622750	22.916153	0.006902	0.001380	0.006902	0.019326	0.000331	0.002071	0.044173	0.000021	0.004831	0.001518	0.000345	0.003451
17-Dec-2021	0.065837	4.796680	4.912680	2.592800	22.654460	0.006823	0.001365	0.006823	0.019105	0.000328	0.002047	0.043668	0.000020	0.004776	0.001501	0.000341	0.003412
18-Dec-2021	0.065966	4.798030	4.914050	2.593530	22.660837	0.006825	0.001365	0.006825	0.019110	0.000328	0.002048	0.043681	0.000020	0.004778	0.001502	0.000341	0.003413
19-Dec-2021	0.066055	4.799350	4.915410	2.594240	22.667057	0.006827	0.001365	0.006827	0.019116	0.000328	0.002048	0.043693	0.000020	0.004779	0.001502	0.000341	0.003413
20-Dec-2021	0.066114	4.800030	4.916110	2.594610	22.670279	0.006828	0.001366	0.006828	0.019118	0.000328	0.002048	0.043699	0.000020	0.004780	0.001502	0.000341	0.003414
21-Dec-2021	0.066192	4.801530	4.917640	2.595420	22.677360	0.006830	0.001366	0.006830	0.019124	0.000328	0.002049	0.043712	0.000020	0.004781	0.001503	0.000342	0.003415
22-Dec-2021	0.066276	4.809820	4.926140	2.599910	22.716550	0.006842	0.001368	0.006842	0.019157	0.000328	0.002053	0.043788	0.000021	0.004789	0.001505	0.000342	0.003421
23-Dec-2021	0.066337	4.821310	4.937900	2.606110	22.770772	0.006858	0.001372	0.006858	0.019203	0.000329	0.002057	0.043892	0.000021	0.004801	0.001509	0.000343	0.003429
24-Dec-2021	0.066357	4.825650	4.942340	2.608460	22.791286	0.006864	0.001373	0.006864	0.019220	0.000329	0.002059	0.043932	0.000021	0.004805	0.001510	0.000343	0.003432
25-Dec-2021	0.066335	4.832520	4.949380	2.612170	22.823719	0.006874	0.001375	0.006874	0.019248	0.000330	0.002062	0.043995	0.000021	0.004812	0.001512	0.000344	0.003437
26-Dec-2021	0.066312	4.847860	4.965090	2.620460	22.896161	0.006896	0.001379	0.006896	0.019309	0.000331	0.002069	0.044134	0.000021	0.004827	0.001517	0.000345	0.003448
27-Dec-2021	0.066292	4.872740	4.990570	2.633910	23.013673	0.006931	0.001386	0.006931	0.019408	0.000333	0.002079	0.044361	0.000021	0.004852	0.001525	0.000347	0.003466

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Dec-2021	0.066227	4.906910	5.025570	2.652390	23.175096	0.006980	0.001396	0.006980	0.019544	0.000335	0.002094	0.044672	0.000021	0.004886	0.001536	0.000349	0.003490
29-Dec-2021	0.066131	4.944300	5.063870	2.672600	23.351684	0.007033	0.001407	0.007033	0.019693	0.000338	0.002110	0.045012	0.000021	0.004923	0.001547	0.000352	0.003517
30-Dec-2021	0.065974	4.979000	5.099400	2.691350	23.515542	0.007083	0.001417	0.007083	0.019831	0.000340	0.002125	0.045328	0.000021	0.004958	0.001558	0.000354	0.003541
31-Dec-2021	0.065822	5.009580	5.130720	2.707880	23.659971	0.007126	0.001425	0.007126	0.019953	0.000342	0.002138	0.045606	0.000021	0.004988	0.001568	0.000356	0.003563
1-Jan-2022	0.065710	5.042020	5.163940	2.725410	23.813162	0.007172	0.001434	0.007172	0.020082	0.000344	0.002152	0.045902	0.000022	0.005021	0.001578	0.000359	0.003586
2-Jan-2022	0.065625	5.072000	5.194650	2.741620	23.954775	0.007215	0.001443	0.007215	0.020201	0.000346	0.002164	0.046175	0.000022	0.005050	0.001587	0.000361	0.003607
3-Jan-2022	0.065550	5.098610	5.221900	2.756000	24.080437	0.007253	0.001451	0.007253	0.020307	0.000348	0.002176	0.046417	0.000022	0.005077	0.001596	0.000363	0.003626
4-Jan-2022	0.065511	5.123390	5.247290	2.769400	24.197494	0.007288	0.001458	0.007288	0.020406	0.000350	0.002186	0.046643	0.000022	0.005102	0.001603	0.000364	0.003644
5-Jan-2022	0.065509	5.147210	5.271690	2.782280	24.310012	0.007322	0.001464	0.007322	0.020501	0.000351	0.002197	0.046859	0.000022	0.005125	0.001611	0.000366	0.003661
6-Jan-2022	0.065552	5.170040	5.295060	2.794610	24.417794	0.007354	0.001471	0.007354	0.020592	0.000353	0.002206	0.047067	0.000022	0.005148	0.001618	0.000368	0.003677
7-Jan-2022	0.065623	5.192250	5.317810	2.806620	24.522709	0.007386	0.001477	0.007386	0.020680	0.000355	0.002216	0.047269	0.000022	0.005170	0.001625	0.000369	0.003693
8-Jan-2022	0.065682	5.214070	5.340160	2.818420	24.625786	0.007417	0.001483	0.007417	0.020767	0.000356	0.002225	0.047468	0.000022	0.005192	0.001632	0.000371	0.003708
9-Jan-2022	0.065688	5.236380	5.363010	2.830480	24.731158	0.007449	0.001490	0.007449	0.020856	0.000358	0.002235	0.047671	0.000022	0.005214	0.001639	0.000372	0.003724
10-Jan-2022	0.065691	5.263510	5.390800	2.845140	24.859271	0.007487	0.001497	0.007487	0.020964	0.000359	0.002246	0.047918	0.000022	0.005241	0.001647	0.000374	0.003744
11-Jan-2022	0.065638	5.295580	5.423640	2.862480	25.010756	0.007533	0.001507	0.007533	0.021092	0.000362	0.002260	0.048210	0.000023	0.005273	0.001657	0.000377	0.003766
12-Jan-2022	0.065569	5.332270	5.461220	2.882310	25.184031	0.007585	0.001517	0.007585	0.021238	0.000364	0.002276	0.048544	0.000023	0.005310	0.001669	0.000379	0.003793
13-Jan-2022	0.065501	5.376690	5.506710	2.906320	25.393821	0.007648	0.001530	0.007648	0.021415	0.000367	0.002294	0.048949	0.000023	0.005354	0.001683	0.000382	0.003824
14-Jan-2022	0.065431	5.425840	5.557050	2.932890	25.625964	0.007718	0.001544	0.007718	0.021611	0.000370	0.002315	0.049396	0.000023	0.005403	0.001698	0.000386	0.003859
15-Jan-2022	0.065350	5.459500	5.591520	2.951080	25.784919	0.007766	0.001553	0.007766	0.021745	0.000373	0.002330	0.049702	0.000023	0.005436	0.001709	0.000388	0.003883
16-Jan-2022	0.065252	5.467690	5.599910	2.955510	25.823612	0.007778	0.001556	0.007778	0.021777	0.000373	0.002333	0.049777	0.000023	0.005444	0.001711	0.000389	0.003889
17-Jan-2022	0.065175	5.476300	5.608730	2.960160	25.864260	0.007790	0.001558	0.007790	0.021812	0.000374	0.002337	0.049855	0.000023	0.005453	0.001714	0.000389	0.003895
18-Jan-2022	0.065148	5.506370	5.639520	2.976420	26.006303	0.007833	0.001567	0.007833	0.021932	0.000376	0.002350	0.050129	0.000023	0.005483	0.001723	0.000392	0.003916
19-Jan-2022	0.065137	5.547700	5.681850	2.998760	26.201501	0.007891	0.001578	0.007891	0.022096	0.000379	0.002367	0.050505	0.000024	0.005524	0.001736	0.000395	0.003946
20-Jan-2022	0.065129	5.593440	5.728700	3.023480	26.417510	0.007957	0.001591	0.007957	0.022278	0.000382	0.002387	0.050922	0.000024	0.005570	0.001750	0.000398	0.003978
21-Jan-2022	0.065120	5.635250	5.771520	3.046080	26.614977	0.008016	0.001603	0.008016	0.022445	0.000385	0.002405	0.051302	0.000024	0.005611	0.001764	0.000401	0.004008
22-Jan-2022	0.065105	5.681010	5.818390	3.070820	26.831119	0.008081	0.001616	0.008081	0.022627	0.000388	0.002424	0.051719	0.000024	0.005657	0.001778	0.000404	0.004041
23-Jan-2022	0.065085	5.729230	5.867770	3.096880	27.058839	0.008150	0.001630	0.008150	0.022819	0.000391	0.002445	0.052158	0.000024	0.005705	0.001793	0.000407	0.004075
24-Jan-2022	0.065066	5.774970	5.914620	3.121610	27.274890	0.008215	0.001643	0.008215	0.023001	0.000394	0.002464	0.052574	0.000025	0.005750	0.001807	0.000411	0.004107
25-Jan-2022	0.065043	5.819110	5.959830	3.145470	27.483363	0.008278	0.001656	0.008278	0.023177	0.000397	0.002483	0.052976	0.000025	0.005794	0.001821	0.000414	0.004139
26-Jan-2022	0.065006	5.862400	6.004170	3.168870	27.687819	0.008339	0.001668	0.008339	0.023350	0.000400	0.002502	0.053370	0.000025	0.005837	0.001835	0.000417	0.004170
27-Jan-2022	0.064951	5.902700	6.045440	3.190650	27.878139	0.008396	0.001679	0.008396	0.023510	0.000403	0.002519	0.053737	0.000025	0.005878	0.001847	0.000420	0.004198
28-Jan-2022	0.064883	5.936820	6.080380	3.209090	28.039272	0.008445	0.001689	0.008445	0.023646	0.000405	0.002533	0.054048	0.000025	0.005911	0.001858	0.000422	0.004222
29-Jan-2022	0.064808	5.967030	6.111330	3.225420	28.181953	0.008488	0.001698	0.008488	0.023766	0.000407	0.002546	0.054323	0.000025	0.005942	0.001867	0.000424	0.004244
30-Jan-2022	0.064738	5.998390	6.143440	3.242370	28.330059	0.008533	0.001707	0.008533	0.023891	0.000410	0.002560	0.054608	0.000026	0.005973	0.001877	0.000427	0.004266
31-Jan-2022	0.064687	6.034790	6.180730	3.262050	28.501993	0.008584	0.001717	0.008584	0.024036	0.000412	0.002575	0.054940	0.000026	0.006009	0.001889	0.000429	0.004292
1-Feb-2022	0.064693	6.075500	6.222420	3.284050	28.694241	0.008642	0.001728	0.008642	0.024198	0.000415	0.002593	0.055310	0.000026	0.006050	0.001901	0.000432	0.004321
2-Feb-2022	0.064712	6.110330	6.258090	3.302880	28.858754	0.008692	0.001738	0.008692	0.024337	0.000417	0.002608	0.055627	0.000026	0.006084	0.001912	0.000435	0.004346
3-Feb-2022	0.064712	6.140980	6.289480	3.319450	29.003522	0.008735	0.001747	0.008735	0.024459	0.000419	0.002621	0.055907	0.000026	0.006115	0.001922	0.000437	0.004368
4-Feb-2022	0.064678	6.167790	6.316940	3.333940	29.130137	0.008774	0.001755	0.008774	0.024566	0.000421	0.002632	0.056151	0.000026	0.006141	0.001930	0.000439	0.004387
5-Feb-2022	0.064639	6.188570	6.338220	3.345170	29.228269	0.008803	0.001761	0.008803	0.024649	0.000423	0.002641	0.056340	0.000026	0.006162	0.001937	0.000440	0.004402
6-Feb-2022	0.064613	6.204030	6.354050	3.353530	29.301299	0.008825	0.001765	0.008825	0.024710	0.000424	0.002648	0.056481	0.000026	0.006178	0.001942	0.000441	0.004413
7-Feb-2022	0.064585	6.143970	6.292540	3.321060	29.017618	0.008740	0.001748	0.008740	0.024471	0.000420	0.002622	0.055934	0.000026	0.006118	0.001923	0.000437	0.004370
8-Feb-2022	0.064593	6.180660	6.330130	3.340900	29.190934	0.008792	0.001758	0.008792	0.024617	0.000422	0.002638	0.056268	0.000026	0.006154	0.001934	0.000440	0.004396
9-Feb-2022	0.064587	6.227330	6.377920	3.366120	29.411325	0.008858	0.001772	0.008858	0.024803	0.000425	0.002657	0.056693	0.000027	0.006201	0.001949	0.000443	0.004429
10-Feb-2022	0.064573	6.288890	6.440960	3.399400	29.702088	0.008946	0.001789	0.008946	0.025048	0.000429	0.002684	0.057253	0.000027	0.006262	0.001968	0.000447	0.004473
11-Feb-2022	0.064555	6.344710	6.498140	3.429570	29.965710	0.009025	0.001805	0.009025	0.025271	0.000433	0.002708	0.057761	0.000027	0.006318	0.001986	0.000451	0.004513
12-Feb-2022	0.064529	6.389860	6.544380	3.453980	30.178970	0.009089	0.001818	0.009089	0.025450	0.000436	0.002727	0.058172	0.000027	0.006363	0.002000	0.000454	0.004545
13-Feb-2022	0.064502	6.427370	6.582790	3.474250	30.356104	0.009143	0.001829	0.009143	0.025600	0.000439	0.002743	0.058514	0.000027	0.006400	0.002011	0.000457	0.004571
14-Feb-2022	0.064475	6.462600	6.618880	3.493300	30.522522	0.009193	0.001839	0.009193	0.025740	0.000441	0.002758	0.058835	0.000028	0.006435	0.002022	0.000460	0.004596
15-Feb-2022	0.064438	6.499110	6.656270	3.513030	30.694935	0.009245	0.001849	0.009245	0.025886	0.000444	0.002773	0.059167	0.000028	0.006471	0.002034	0.000462	0.004622
16-Feb-2022	0.064412	6.533280	6.691270	3.531500	30.856317	0.009293	0.001859	0.009293	0.026022	0.000446	0.002788	0.059478	0.000028	0.006505	0.002045	0.000465	0.004647
17-Feb-2022	0.064388	6.562910	6.721610	3.547520	30.996274	0.009336	0.001867	0.009336	0.026140	0.000448	0.002801	0.059748	0.000028	0.006535	0.002054	0.000467	0.004668

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Feb-2022	0.064364	6.605990	6.765740	3.570800	31.199711	0.009397	0.001879	0.009397	0.026311	0.000451	0.002819	0.060140	0.000028	0.006578	0.002067	0.000470	0.004698
19-Feb-2022	0.064339	6.653600	6.814500	3.596540	31.424591	0.009465	0.001893	0.009465	0.026501	0.000454	0.002839	0.060573	0.000028	0.006625	0.002082	0.000473	0.004732
20-Feb-2022	0.064311	6.703080	6.865180	3.623290	31.658299	0.009535	0.001907	0.009535	0.026698	0.000458	0.002860	0.061024	0.000029	0.006674	0.002098	0.000477	0.004767
21-Feb-2022	0.064277	6.741700	6.904730	3.644160	31.840676	0.009590	0.001918	0.009590	0.026852	0.000460	0.002877	0.061375	0.000029	0.006713	0.002110	0.000479	0.004795
22-Feb-2022	0.064236	6.755800	6.919170	3.651790	31.907304	0.009610	0.001922	0.009610	0.026908	0.000461	0.002883	0.061504	0.000029	0.006727	0.002114	0.000480	0.004805
23-Feb-2022	0.064259	6.757710	6.921120	3.652810	31.916273	0.009613	0.001923	0.009613	0.026916	0.000461	0.002884	0.061521	0.000029	0.006729	0.002115	0.000481	0.004806
24-Feb-2022	0.064230	6.774830	6.938660	3.662070	31.997155	0.009637	0.001927	0.009637	0.026984	0.000463	0.002891	0.061677	0.000029	0.006746	0.002120	0.000482	0.004819
25-Feb-2022	0.064223	6.808000	6.972630	3.680000	32.153816	0.009684	0.001937	0.009684	0.027116	0.000465	0.002905	0.061979	0.000029	0.006779	0.002131	0.000484	0.004842
26-Feb-2022	0.064217	6.090610	6.237900	3.292220	28.765615	0.008664	0.001733	0.008664	0.024259	0.000416	0.002599	0.055448	0.000026	0.006065	0.001906	0.000433	0.004332
27-Feb-2022	0.064200	6.127500	6.275680	3.312160	28.939842	0.008716	0.001743	0.008716	0.024405	0.000418	0.002615	0.055784	0.000026	0.006101	0.001918	0.000436	0.004358
28-Feb-2022	0.064184	6.170230	6.319440	3.335260	29.141665	0.008777	0.001755	0.008777	0.024576	0.000421	0.002633	0.056173	0.000026	0.006144	0.001931	0.000439	0.004389
1-Mar-2022	0.064166	6.207880	6.358000	3.355610	29.319478	0.008831	0.001766	0.008831	0.024726	0.000424	0.002649	0.056516	0.000026	0.006181	0.001943	0.000442	0.004415
2-Mar-2022	0.064148	6.246260	6.397310	3.376360	29.500762	0.008885	0.001777	0.008885	0.024878	0.000426	0.002666	0.056865	0.000027	0.006220	0.001955	0.000444	0.004443
3-Mar-2022	0.064127	6.286010	6.438020	3.397840	29.688472	0.008942	0.001788	0.008942	0.025037	0.000429	0.002683	0.057227	0.000027	0.006259	0.001967	0.000447	0.004471
4-Mar-2022	0.064105	6.326860	6.479860	3.419930	29.881441	0.009000	0.001800	0.009000	0.025200	0.000432	0.002700	0.057599	0.000027	0.006300	0.001980	0.000450	0.004500
5-Mar-2022	0.064089	6.374140	6.528280	3.445480	30.104714	0.009067	0.001813	0.009067	0.025388	0.000435	0.002720	0.058029	0.000027	0.006347	0.001995	0.000453	0.004534
6-Mar-2022	0.064075	6.421590	6.576880	3.471130	30.328824	0.009135	0.001827	0.009135	0.025577	0.000438	0.002740	0.058461	0.000027	0.006394	0.002010	0.000457	0.004567
7-Mar-2022	0.064057	6.467030	6.623420	3.495690	30.543425	0.009199	0.001840	0.009199	0.025758	0.000442	0.002760	0.058875	0.000028	0.006439	0.002024	0.000460	0.004600
8-Mar-2022	0.064037	6.512270	6.669750	3.520150	30.757116	0.009264	0.001853	0.009264	0.025938	0.000445	0.002779	0.059287	0.000028	0.006484	0.002038	0.000463	0.004632
9-Mar-2022	0.064018	6.560080	6.718710	3.545990	30.982907	0.009332	0.001866	0.009332	0.026128	0.000448	0.002799	0.059722	0.000028	0.006532	0.002053	0.000467	0.004666
10-Mar-2022	0.064002	6.607840	6.767630	3.571810	31.208490	0.009399	0.001880	0.009399	0.026319	0.000451	0.002820	0.060157	0.000028	0.006580	0.002068	0.000470	0.004700
11-Mar-2022	0.063990	6.656390	6.817360	3.598050	31.437776	0.009469	0.001894	0.009469	0.026512	0.000454	0.002841	0.060599	0.000028	0.006628	0.002083	0.000473	0.004734
12-Mar-2022	0.063979	6.704420	6.866550	3.624010	31.664610	0.009537	0.001907	0.009537	0.026703	0.000458	0.002861	0.061036	0.000029	0.006676	0.002098	0.000477	0.004768
13-Mar-2022	0.063968	6.752050	6.915330	3.649760	31.889581	0.009605	0.001921	0.009605	0.026893	0.000461	0.002881	0.061470	0.000029	0.006723	0.002113	0.000480	0.004802
14-Mar-2022	0.063956	6.799740	6.964170	3.675530	32.114783	0.009672	0.001934	0.009672	0.027083	0.000464	0.002902	0.061904	0.000029	0.006771	0.002128	0.000484	0.004836
15-Mar-2022	0.063944	6.847700	7.013290	3.701460	32.341319	0.009741	0.001948	0.009741	0.027274	0.000468	0.002922	0.062340	0.000029	0.006818	0.002143	0.000487	0.004870
16-Mar-2022	0.063933	6.895840	7.062600	3.727480	32.568675	0.009809	0.001962	0.009809	0.027466	0.000471	0.002943	0.062779	0.000029	0.006866	0.002158	0.000490	0.004905
17-Mar-2022	0.063923	6.945690	7.113660	3.754430	32.804131	0.009880	0.001976	0.009880	0.027664	0.000474	0.002964	0.063233	0.000030	0.006916	0.002174	0.000494	0.004940
18-Mar-2022	0.063914	6.995340	7.164500	3.781260	33.038593	0.009951	0.001990	0.009951	0.027862	0.000478	0.002985	0.063685	0.000030	0.006965	0.002189	0.000498	0.004975
19-Mar-2022	0.063906	7.043850	7.214190	3.807490	33.267737	0.010020	0.002004	0.010020	0.028055	0.000481	0.003006	0.064126	0.000030	0.007014	0.002204	0.000501	0.005010
20-Mar-2022	0.063897	7.090660	7.262130	3.832790	33.488807	0.010086	0.002017	0.010086	0.028242	0.000484	0.003026	0.064552	0.000030	0.007060	0.002219	0.000504	0.005043
21-Mar-2022	0.063890	7.138450	7.311070	3.858620	33.714507	0.010154	0.002031	0.010154	0.028432	0.000487	0.003046	0.064987	0.000030	0.007108	0.002234	0.000508	0.005077
22-Mar-2022	0.063884	7.103210	7.274980	3.839570	33.548065	0.010104	0.002021	0.010104	0.028292	0.000485	0.003031	0.064667	0.000030	0.007073	0.002223	0.000505	0.005052
23-Mar-2022	0.063878	7.136000	7.308560	3.857300	33.702953	0.010151	0.002030	0.010151	0.028422	0.000487	0.003045	0.064965	0.000030	0.007106	0.002233	0.000508	0.005075
24-Mar-2022	0.063870	7.198580	7.372650	3.891120	33.998486	0.010240	0.002048	0.010240	0.028671	0.000492	0.003072	0.065535	0.000031	0.007168	0.002253	0.000512	0.005120
25-Mar-2022	0.063859	7.235380	7.410350	3.911020	34.172324	0.010292	0.002058	0.010292	0.028818	0.000494	0.003088	0.065870	0.000031	0.007205	0.002264	0.000515	0.005146
26-Mar-2022	0.063849	7.299340	7.475860	3.945590	34.474392	0.010383	0.002077	0.010383	0.029073	0.000498	0.003115	0.066452	0.000031	0.007268	0.002284	0.000519	0.005192
27-Mar-2022	0.063838	7.296240	7.472680	3.943910	34.459733	0.010379	0.002076	0.010379	0.029060	0.000498	0.003114	0.066424	0.000031	0.007265	0.002283	0.000519	0.005189
28-Mar-2022	0.063828	7.370810	7.549050	3.984220	34.811931	0.010485	0.002097	0.010485	0.029357	0.000503	0.003145	0.067103	0.000031	0.007339	0.002307	0.000524	0.005242
29-Mar-2022	0.063818	7.432820	7.612560	4.017740	35.104805	0.010573	0.002115	0.010573	0.029604	0.000508	0.003172	0.067667	0.000032	0.007401	0.002326	0.000529	0.005287
30-Mar-2022	0.063810	7.510350	7.691970	4.059650	35.470983	0.010683	0.002137	0.010683	0.029913	0.000513	0.003205	0.068373	0.000032	0.007478	0.002350	0.000534	0.005342
31-Mar-2022	0.063801	7.562630	7.745510	4.087910	35.717900	0.010758	0.002152	0.010758	0.030121	0.000516	0.003227	0.068849	0.000032	0.007530	0.002367	0.000538	0.005379
1-Apr-2022	0.063792	7.623940	7.808300	4.121050	36.007462	0.010845	0.002169	0.010845	0.030366	0.000521	0.003253	0.069407	0.000033	0.007591	0.002386	0.000542	0.005422
2-Apr-2022	0.063772	7.486420	7.667460	4.046720	35.357984	0.010649	0.002130	0.010649	0.029818	0.000511	0.003195	0.068155	0.000032	0.007454	0.002343	0.000532	0.005325
3-Apr-2022	0.063759	7.424320	7.603850	4.013140	35.064638	0.010561	0.002112	0.010561	0.029571	0.000507	0.003168	0.067590	0.000032	0.007393	0.002323	0.000528	0.005280
4-Apr-2022	0.063745	7.368960	7.547150	3.983220	34.803193	0.010482	0.002096	0.010482	0.029350	0.000503	0.003145	0.067086	0.000031	0.007338	0.002306	0.000524	0.005241
5-Apr-2022	0.063731	7.333950	7.511300	3.964300	34.637861	0.010432	0.002086	0.010432	0.029211	0.000501	0.003130	0.066767	0.000031	0.007303	0.002295	0.000522	0.005216
6-Apr-2022	0.063717	7.307840	7.484560	3.950180	34.514518	0.010395	0.002079	0.010395	0.029107	0.000499	0.003119	0.066529	0.000031	0.007277	0.002287	0.000520	0.005198
7-Apr-2022	0.063704	7.285220	7.461390	3.937960	34.407714	0.010363	0.002073	0.010363	0.029017	0.000497	0.003109	0.066324	0.000031	0.007254	0.002280	0.000518	0.005182
8-Apr-2022	0.063690	7.264400	7.440070	3.926700	34.309357	0.010333	0.002067	0.010333	0.028934	0.000496	0.003100	0.066134	0.000031	0.007233	0.002273	0.000517	0.005167
9-Apr-2022	0.063676	7.243320	7.418480	3.915310	34.209817	0.010303	0.002061	0.010303	0.028850	0.000495	0.003091	0.065942	0.000031	0.007212	0.002267	0.000515	0.005152
10-Apr-2022	0.063662	7.222220	7.396870	3.903900	34.110144	0.010273	0.002055	0.010273	0.028766	0.000493	0.003082	0.065750	0.000031	0.007191	0.002260	0.000514	0.005137

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Apr-2022	0.063648	7.201430	7.375570	3.892660	34.011945	0.010244	0.002049	0.010244	0.028683	0.000492	0.003073	0.065561	0.000031	0.007171	0.002254	0.000512	0.005122
12-Apr-2022	0.063636	7.181890	7.355570	3.882110	33.919708	0.010216	0.002043	0.010216	0.028605	0.000490	0.003065	0.065383	0.000031	0.007151	0.002248	0.000511	0.005108
13-Apr-2022	0.063623	7.165490	7.338770	3.873240	33.842231	0.010193	0.002039	0.010193	0.028540	0.000489	0.003058	0.065234	0.000031	0.007135	0.002242	0.000510	0.005096
14-Apr-2022	0.063610	7.151710	7.324650	3.865790	33.777143	0.010173	0.002035	0.010173	0.028485	0.000488	0.003052	0.065108	0.000031	0.007121	0.002238	0.000509	0.005087
15-Apr-2022	0.063600	7.139370	7.312010	3.859120	33.718863	0.010156	0.002031	0.010156	0.028436	0.000487	0.003047	0.064996	0.000030	0.007109	0.002234	0.000508	0.005078
16-Apr-2022	0.063592	7.127380	7.299730	3.852640	33.662239	0.010139	0.002028	0.010139	0.028388	0.000487	0.003042	0.064887	0.000030	0.007097	0.002230	0.000507	0.005069
17-Apr-2022	0.063587	7.115690	7.287760	3.846320	33.607024	0.010122	0.002024	0.010122	0.028341	0.000486	0.003037	0.064780	0.000030	0.007085	0.002227	0.000506	0.005061
18-Apr-2022	0.063583	7.103670	7.275450	3.839820	33.550243	0.010105	0.002021	0.010105	0.028293	0.000485	0.003031	0.064671	0.000030	0.007073	0.002223	0.000505	0.005052
19-Apr-2022	0.063581	7.091810	7.263300	3.833410	33.494232	0.010088	0.002018	0.010088	0.028246	0.000484	0.003026	0.064563	0.000030	0.007062	0.002219	0.000504	0.005044
20-Apr-2022	0.063580	7.080070	7.251280	3.827070	33.438809	0.010071	0.002014	0.010071	0.028199	0.000483	0.003021	0.064456	0.000030	0.007050	0.002216	0.000504	0.005036
21-Apr-2022	0.063580	7.068240	7.239160	3.820670	33.382914	0.010054	0.002011	0.010054	0.028152	0.000483	0.003016	0.064348	0.000030	0.007038	0.002212	0.000503	0.005027
22-Apr-2022	0.063579	7.055900	7.226530	3.814000	33.324634	0.010037	0.002007	0.010037	0.028103	0.000482	0.003011	0.064236	0.000030	0.007026	0.002208	0.000502	0.005018
23-Apr-2022	0.063578	7.042860	7.213170	3.806950	33.263042	0.010018	0.002004	0.010018	0.028051	0.000481	0.003005	0.064117	0.000030	0.007013	0.002204	0.000501	0.005009
24-Apr-2022	0.063575	7.029190	7.199170	3.799560	33.198476	0.009999	0.002000	0.009999	0.027997	0.000480	0.003000	0.063993	0.000030	0.006999	0.002200	0.000500	0.004999
25-Apr-2022	0.063572	7.015020	7.184660	3.791900	33.131549	0.009979	0.001996	0.009979	0.027940	0.000479	0.002994	0.063864	0.000030	0.006985	0.002195	0.000499	0.004989
26-Apr-2022	0.063569	7.002840	7.172180	3.785320	33.074039	0.009961	0.001992	0.009961	0.027892	0.000478	0.002988	0.063753	0.000030	0.006973	0.002192	0.000498	0.004981
27-Apr-2022	0.063565	6.994620	7.163760	3.780870	33.035189	0.009950	0.001990	0.009950	0.027859	0.000478	0.002985	0.063678	0.000030	0.006965	0.002189	0.000497	0.004975
28-Apr-2022	0.063562	6.986330	7.155280	3.776400	32.996081	0.009938	0.001988	0.009938	0.027826	0.000477	0.002981	0.063603	0.000030	0.006957	0.002186	0.000497	0.004969
29-Apr-2022	0.063559	6.977970	7.146710	3.771870	32.956552	0.009926	0.001985	0.009926	0.027793	0.000476	0.002978	0.063526	0.000030	0.006948	0.002184	0.000496	0.004963
30-Apr-2022	0.063580	6.969540	7.138080	3.767320	32.916765	0.009914	0.001983	0.009914	0.027759	0.000476	0.002974	0.063450	0.000030	0.006940	0.002181	0.000496	0.004957
1-May-2022	0.063829	6.960250	7.128560	3.762300	32.872896	0.009901	0.001980	0.009901	0.027722	0.000475	0.002970	0.063365	0.000030	0.006931	0.002178	0.000495	0.004950
2-May-2022	0.065308	6.946150	7.114120	3.754670	32.806268	0.009881	0.001976	0.009881	0.027666	0.000474	0.002964	0.063237	0.000030	0.006917	0.002174	0.000494	0.004940
3-May-2022	0.070963	7.123930	7.296200	3.850770	33.645924	0.010134	0.002027	0.010134	0.028374	0.000486	0.003040	0.064855	0.000030	0.007094	0.002229	0.000507	0.005067
4-May-2022	0.076619	7.079390	7.250580	3.826690	33.435546	0.010070	0.002014	0.010070	0.028197	0.000483	0.003021	0.064450	0.000030	0.007049	0.002215	0.000504	0.005035
5-May-2022	0.081826	7.008290	7.177770	3.788270	33.099796	0.009969	0.001994	0.009969	0.027914	0.000479	0.002991	0.063802	0.000030	0.006978	0.002193	0.000498	0.004985
6-May-2022	0.086447	6.923490	7.090920	3.742430	32.699281	0.009849	0.001970	0.009849	0.027576	0.000473	0.002955	0.063030	0.000030	0.006894	0.002167	0.000492	0.004924
7-May-2022	0.090762	6.841220	7.006660	3.697960	32.310726	0.009731	0.001946	0.009731	0.027248	0.000467	0.002919	0.062281	0.000029	0.006812	0.002141	0.000487	0.004866
8-May-2022	0.094966	6.760610	6.924100	3.654390	31.930021	0.009617	0.001923	0.009617	0.026927	0.000462	0.002885	0.061548	0.000029	0.006732	0.002116	0.000481	0.004808
9-May-2022	0.098791	6.681990	6.843580	3.611890	31.558692	0.009505	0.001901	0.009505	0.026614	0.000456	0.002851	0.060832	0.000029	0.006653	0.002091	0.000475	0.004752
10-May-2022	0.102837	6.607360	6.767140	3.571550	31.206221	0.009399	0.001880	0.009399	0.026317	0.000451	0.002820	0.060152	0.000028	0.006579	0.002068	0.000470	0.004699
11-May-2022	0.106665	6.535040	6.693070	3.532450	30.864624	0.009296	0.001859	0.009296	0.026029	0.000446	0.002789	0.059494	0.000028	0.006507	0.002045	0.000465	0.004648
12-May-2022	0.113080	6.458000	6.614170	3.490810	30.500782	0.009186	0.001837	0.009186	0.025722	0.000441	0.002756	0.058793	0.000028	0.006430	0.002021	0.000459	0.004593
13-May-2022	0.116819	6.378810	6.533060	3.448000	30.126753	0.009074	0.001815	0.009074	0.025406	0.000436	0.002722	0.058072	0.000027	0.006352	0.001996	0.000454	0.004537
14-May-2022	0.121481	6.295570	6.447810	3.403010	29.733633	0.008955	0.001791	0.008955	0.025075	0.000430	0.002687	0.057314	0.000027	0.006269	0.001970	0.000448	0.004478
15-May-2022	0.136567	6.207570	6.357690	3.355450	29.318045	0.008830	0.001766	0.008830	0.024724	0.000424	0.002649	0.056513	0.000026	0.006181	0.001943	0.000442	0.004415
16-May-2022	0.154638	6.126780	6.274930	3.311770	28.936439	0.008715	0.001743	0.008715	0.024403	0.000418	0.002615	0.055777	0.000026	0.006101	0.001917	0.000436	0.004358
17-May-2022	0.167940	6.049910	6.196200	3.270220	28.573391	0.008606	0.001721	0.008606	0.024096	0.000413	0.002582	0.055077	0.000026	0.006024	0.001893	0.000430	0.004303
18-May-2022	0.172778	6.002070	6.147210	3.244360	28.347443	0.008538	0.001708	0.008538	0.023906	0.000410	0.002561	0.054642	0.000026	0.005976	0.001878	0.000427	0.004269
19-May-2022	0.185207	5.997040	6.142060	3.241640	28.323682	0.008531	0.001706	0.008531	0.023886	0.000409	0.002559	0.054596	0.000026	0.005971	0.001877	0.000427	0.004265
20-May-2022	0.194497	5.704800	5.842730	3.083630	26.943274	0.008124	0.001623	0.008120	0.022725	0.000390	0.002435	0.051941	0.000024	0.005681	0.001785	0.000406	0.004058
21-May-2022	0.181962	5.422710	5.553800	2.931110	25.610818	0.007729	0.001544	0.007723	0.021604	0.000370	0.002314	0.049377	0.000023	0.005400	0.001697	0.000386	0.003857
22-May-2022	0.183381	5.256030	5.383070	2.840980	24.823463	0.007499	0.001496	0.007490	0.020943	0.000359	0.002243	0.047863	0.000022	0.005234	0.001645	0.000374	0.003739
23-May-2022	0.186314	5.090960	5.214000	2.751740	24.043792	0.007267	0.001450	0.007258	0.020287	0.000348	0.002173	0.046362	0.000022	0.005070	0.001593	0.000362	0.003621
24-May-2022	0.189227	4.933870	5.053110	2.666810	23.301797	0.007048	0.001405	0.007037	0.019663	0.000337	0.002106	0.044935	0.000021	0.004914	0.001544	0.000351	0.003510
25-May-2022	0.196400	4.862000	4.979500	2.627960	22.962353	0.006946	0.001385	0.006934	0.019376	0.000332	0.002075	0.044281	0.000021	0.004842	0.001522	0.000346	0.003458
26-May-2022	0.204186	4.761300	4.876360	2.573520	22.486721	0.006803	0.001356	0.006792	0.018976	0.000325	0.002032	0.043365	0.000020	0.004742	0.001490	0.000339	0.003387
27-May-2022	0.206583	4.710970	4.824810	2.546300	22.248955	0.006733	0.001342	0.006721	0.018776	0.000322	0.002010	0.042908	0.000020	0.004692	0.001474	0.000335	0.003351
28-May-2022	0.209055	4.728850	4.843140	2.555990	22.333505	0.006752	0.001347	0.006742	0.018845	0.000323	0.002018	0.043068	0.000020	0.004710	0.001480	0.000336	0.003364
29-May-2022	0.210432	4.748470	4.863230	2.566600	22.426188	0.006776	0.001352	0.006768	0.018922	0.000324	0.002026	0.043245	0.000020	0.004729	0.001486	0.000338	0.003378
30-May-2022	0.212992	4.743600	4.858240	2.563970	22.403198	0.006770	0.001351	0.006761	0.018903	0.000324	0.002024	0.043201	0.000020	0.004724	0.001485	0.000337	0.003374
31-May-2022	0.217521	4.723670	4.837820	2.553170	22.308958	0.006744	0.001345	0.006735	0.018825	0.000323	0.002016	0.043022	0.000020	0.004705	0.001478	0.000336	0.003360
1-Jun-2022	0.259459	4.647890	4.760160	2.512120	21.950691	0.040113	0.002807	0.026853	0.018530	0.000317	0.001984	0.042343	0.000020	0.004630	0.001455	0.000331	0.003307

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Jun-2022	0.326653	4.336490	4.438210	2.337310	20.453258	0.063911	0.003874	0.041261	0.017840	0.000298	0.001854	0.040304	0.000020	0.004361	0.001366	0.000315	0.003147
3-Jun-2022	0.375872	4.146230	4.223480	2.191840	19.379133	0.204309	0.011162	0.128799	0.028490	0.000315	0.001793	0.055398	0.000034	0.004870	0.001386	0.000436	0.004360
4-Jun-2022	0.442157	3.897160	3.941830	2.000160	17.967867	0.173300	0.009573	0.109515	0.026062	0.000304	0.001713	0.051286	0.000031	0.004630	0.001353	0.000403	0.004034
5-Jun-2022	0.533635	3.830130	3.875040	1.967930	17.667770	0.168855	0.009329	0.106671	0.025418	0.000299	0.001685	0.050374	0.000030	0.004575	0.001334	0.000396	0.003962
6-Jun-2022	0.561344	3.828470	3.877820	1.976680	17.699658	0.141697	0.007955	0.089707	0.023647	0.000293	0.001678	0.047423	0.000028	0.004428	0.001314	0.000373	0.003726
7-Jun-2022	0.635153	3.791880	3.837620	1.951050	17.502748	0.134822	0.007607	0.085390	0.023489	0.000294	0.001665	0.047424	0.000027	0.004436	0.001313	0.000373	0.003726
8-Jun-2022	0.738950	3.779180	3.818440	1.932420	17.394318	0.139236	0.007856	0.088273	0.023954	0.000296	0.001665	0.048152	0.000028	0.004480	0.001322	0.000378	0.003785
9-Jun-2022	0.902974	3.797610	3.837140	1.945200	17.492966	0.140848	0.007934	0.089241	0.024026	0.000296	0.001673	0.048239	0.000028	0.004499	0.001328	0.000379	0.003791
10-Jun-2022	1.114496	3.685910	3.730850	1.899080	17.024129	0.143911	0.008084	0.091029	0.024213	0.000292	0.001618	0.048517	0.000029	0.004465	0.001301	0.000381	0.003813
11-Jun-2022	1.352153	3.614880	3.644830	1.848240	16.637408	0.149533	0.008357	0.094177	0.024453	0.000292	0.001603	0.048782	0.000029	0.004458	0.001297	0.000383	0.003834
12-Jun-2022	1.580070	3.559110	3.593430	1.815440	16.363080	0.156411	0.008692	0.098057	0.024720	0.000290	0.001581	0.049041	0.000029	0.004442	0.001287	0.000385	0.003855
13-Jun-2022	1.753962	3.512230	3.537130	1.779620	16.098513	0.164054	0.009072	0.102868	0.025108	0.000289	0.001568	0.049557	0.000030	0.004447	0.001283	0.000390	0.003897
14-Jun-2022	1.961035	3.476820	3.494460	1.749820	15.887378	0.169670	0.009349	0.106475	0.025381	0.000288	0.001555	0.049912	0.000030	0.004450	0.001278	0.000393	0.003926
15-Jun-2022	2.165414	3.439840	3.459840	1.724810	15.692048	0.176156	0.009664	0.110518	0.025643	0.000286	0.001541	0.050202	0.000031	0.004436	0.001272	0.000395	0.003949
16-Jun-2022	2.381902	3.411600	3.423680	1.701070	15.523771	0.181900	0.009948	0.114086	0.025951	0.000286	0.001529	0.050669	0.000031	0.004458	0.001270	0.000399	0.003986
17-Jun-2022	2.521337	3.388480	3.398760	1.684380	15.397311	0.172110	0.009447	0.107908	0.025293	0.000282	0.001519	0.049616	0.000031	0.004389	0.001255	0.000390	0.003901
18-Jun-2022	2.710845	3.350810	3.363300	1.666620	15.230114	0.171573	0.009413	0.107475	0.025179	0.000280	0.001502	0.049400	0.000030	0.004361	0.001245	0.000388	0.003882
19-Jun-2022	2.866843	3.333140	3.337800	1.648800	15.112609	0.176945	0.009682	0.110727	0.025505	0.000281	0.001497	0.049895	0.000031	0.004380	0.001247	0.000392	0.003921
20-Jun-2022	3.059758	3.311470	3.314800	1.632620	14.991870	0.179337	0.009799	0.112071	0.025646	0.000281	0.001490	0.050128	0.000031	0.004386	0.001246	0.000394	0.003937
21-Jun-2022	3.208837	3.297460	3.298550	1.620070	14.905206	0.180195	0.009840	0.112513	0.025692	0.000281	0.001485	0.050209	0.000031	0.004387	0.001246	0.000394	0.003942
22-Jun-2022	3.417435	3.284400	3.286540	1.612410	14.841051	0.190918	0.010339	0.119129	0.026010	0.000281	0.001482	0.050557	0.000032	0.004393	0.001246	0.000397	0.003969
23-Jun-2022	3.544683	3.274720	3.273240	1.601930	14.773724	0.187860	0.010221	0.117170	0.026074	0.000282	0.001480	0.050740	0.000032	0.004395	0.001245	0.000398	0.003982
24-Jun-2022	3.910027	3.260890	3.256310	1.589290	14.687139	0.220050	0.011809	0.137285	0.027312	0.000282	0.001474	0.052124	0.000034	0.004424	0.001241	0.000409	0.004094
25-Jun-2022	4.468444	3.239750	3.232970	1.571500	14.561093	0.296872	0.015510	0.154537	0.029048	0.000557	0.001467	0.063216	0.000036	0.004521	0.001252	0.000430	0.004297
26-Jun-2022	4.649822	3.228690	3.216990	1.566290	14.512021	0.313878	0.016349	0.163138	0.029520	0.000589	0.001459	0.065278	0.000036	0.004561	0.001244	0.000431	0.004311
27-Jun-2022	4.749568	3.224330	3.210030	1.564920	14.495493	0.334167	0.017352	0.171591	0.029954	0.000610	0.001455	0.066961	0.000037	0.004618	0.001254	0.000433	0.004328
28-Jun-2022	4.861057	3.221550	3.205500	1.561630	14.475003	0.315804	0.016417	0.173776	0.030053	0.000585	0.001456	0.065329	0.000037	0.004623	0.001253	0.000433	0.004329
29-Jun-2022	4.977781	3.211610	3.194190	1.550360	14.403773	0.312788	0.016260	0.171582	0.029677	0.000584	0.001455	0.065274	0.000037	0.004575	0.001247	0.000428	0.004275
30-Jun-2022	5.174823	3.201850	3.178550	1.539620	14.335175	0.309609	0.016115	0.173822	0.029917	0.000573	0.001451	0.064912	0.000037	0.004580	0.001247	0.000431	0.004312
1-Jul-2022	5.795882	3.333450	3.527720	1.495110	14.480488	0.243741	0.010969	0.116637	0.025582	0.000424	0.001390	0.053633	0.000049	0.004466	0.001371	0.000420	0.004202
2-Jul-2022	7.403940	3.347850	3.577860	1.471890	14.420824	0.260482	0.011174	0.117640	0.025191	0.000461	0.001368	0.054860	0.000053	0.004500	0.001400	0.000428	0.004281
3-Jul-2022	8.226376	3.372590	3.625100	1.467340	14.463863	0.275181	0.011680	0.124997	0.025099	0.000497	0.001360	0.056551	0.000055	0.004535	0.001424	0.000432	0.004324
4-Jul-2022	8.615536	3.411580	3.704010	1.472420	14.582141	0.279412	0.011417	0.120939	0.024911	0.000508	0.001355	0.055620	0.000058	0.004546	0.001447	0.000438	0.004375
5-Jul-2022	9.406575	3.604000	4.056020	1.501560	15.182612	0.314750	0.011765	0.124666	0.025167	0.000567	0.001359	0.056238	0.000070	0.004689	0.001564	0.000467	0.004668
6-Jul-2022	9.776854	4.530650	5.747790	1.641340	18.072071	0.486325	0.013531	0.142265	0.026514	0.000854	0.001378	0.058889	0.000127	0.005387	0.002128	0.000608	0.006080
7-Jul-2022	10.710327	4.094470	4.959810	1.576780	16.717072	0.407762	0.012763	0.134889	0.025762	0.000719	0.001368	0.057571	0.000101	0.005038	0.001860	0.000543	0.005435
8-Jul-2022	11.195987	4.567020	5.824720	1.648850	18.193813	0.494708	0.013630	0.143652	0.026422	0.000863	0.001378	0.058956	0.000130	0.005388	0.002147	0.000616	0.006157
9-Jul-2022	11.691750	4.032940	4.845410	1.565800	16.518216	0.402820	0.012952	0.137530	0.025687	0.000714	0.001367	0.058390	0.000097	0.005000	0.001825	0.000536	0.005358
10-Jul-2022	12.562373	4.562370	5.807650	1.644840	18.165689	0.501942	0.014033	0.148567	0.026500	0.000883	0.001378	0.060153	0.000130	0.005410	0.002149	0.000616	0.006163
11-Jul-2022	12.956638	5.679230	7.846540	1.814540	21.653313	0.704711	0.015981	0.167844	0.028121	0.001220	0.001401	0.063232	0.000198	0.006249	0.002828	0.000785	0.007853
12-Jul-2022	13.165975	5.051340	6.708260	1.721290	19.701468	0.587475	0.014700	0.154836	0.027084	0.001020	0.001388	0.060963	0.000160	0.005754	0.002442	0.000690	0.006904
13-Jul-2022	14.518792	4.145570	5.055420	1.584350	16.875842	0.421324	0.013041	0.138112	0.025700	0.000744	0.001369	0.058343	0.000104	0.005068	0.001891	0.000553	0.005530
14-Jul-2022	15.529354	4.384330	5.491680	1.620360	17.620314	0.467156	0.013571	0.143588	0.026038	0.000821	0.001374	0.059296	0.000119	0.005247	0.002036	0.000590	0.005900
15-Jul-2022	16.145875	5.302050	7.172350	1.760010	20.486940	0.637245	0.015310	0.161307	0.027336	0.001102	0.001392	0.062119	0.000176	0.005925	0.002593	0.000731	0.007307
16-Jul-2022	16.387463	4.603310	5.899940	1.654760	18.308767	0.509545	0.014035	0.148603	0.026234	0.000888	0.001378	0.060020	0.000133	0.005391	0.002167	0.000625	0.006252
17-Jul-2022	17.052702	4.655560	5.991490	1.661880	18.468555	0.520614	0.014219	0.150436	0.026351	0.000909	0.001379	0.060458	0.000136	0.005439	0.002200	0.000633	0.006331
18-Jul-2022	17.558202	5.557610	7.631900	1.797070	21.277686	0.689173	0.016045	0.168823	0.027749	0.001193	0.001398	0.063642	0.000191	0.006134	0.002752	0.000770	0.007702
19-Jul-2022	17.535275	5.463110	7.464960	1.784250	20.988927	0.668066	0.015731	0.165570	0.027535	0.001155	0.001396	0.063009	0.000186	0.006048	0.002692	0.000755	0.007554
20-Jul-2022	17.706556	4.825870	6.299310	1.687150	18.997881	0.552709	0.014587	0.154062	0.026572	0.000965	0.001383	0.061242	0.000147	0.005573	0.002305	0.000659	0.006588
21-Jul-2022	17.771192	4.782190	6.222260	1.680800	18.862663	0.547133	0.014609	0.154538	0.026474	0.000955	0.001382	0.061341	0.000145	0.005533	0.002278	0.000653	0.006534
22-Jul-2022	17.652158	4.702800	6.068580	1.666780	18.606692	0.540976	0.014900	0.158221	0.026431	0.000951	0.001381	0.062393	0.000140	0.005494	0.002234	0.000643	0.006425
23-Jul-2022	16.895956	4.625270	5.928740	1.655630	18.367184	0.525790	0.014705	0.156245	0.026273	0.000925	0.001380	0.061976	0.000135	0.005431	0.002186	0.000631	0.006308

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24-Jul-2022	16.440825	4.688720	6.047030	1.665800	18.567498	0.536352	0.014760	0.156682	0.026327	0.000941	0.001381	0.061993	0.000139	0.005472	0.002223	0.000640	0.006405
25-Jul-2022	16.213948	4.717380	6.100490	1.670330	18.657717	0.542779	0.014862	0.157852	0.026328	0.000952	0.001381	0.062230	0.000141	0.005489	0.002240	0.000645	0.006454
26-Jul-2022	16.114871	4.773190	6.203110	1.678990	18.832736	0.553683	0.014993	0.159195	0.026384	0.000971	0.001383	0.062479	0.000145	0.005529	0.002274	0.000654	0.006542
27-Jul-2022	16.911354	4.858600	6.360470	1.692240	19.100569	0.569621	0.015155	0.160831	0.026477	0.000997	0.001384	0.062756	0.000150	0.005589	0.002325	0.000668	0.006675
28-Jul-2022	16.828721	5.200350	6.985120	1.744230	20.168013	0.633626	0.015839	0.167848	0.026957	0.001103	0.001391	0.063916	0.000171	0.005843	0.002533	0.000720	0.007200
29-Jul-2022	16.985546	5.126110	6.853680	1.733540	19.938614	0.621529	0.015755	0.167242	0.026792	0.001082	0.001390	0.063780	0.000167	0.005777	0.002487	0.000710	0.007098
30-Jul-2022	17.137529	5.972470	8.396110	1.861630	22.579450	0.775553	0.017260	0.182163	0.028057	0.001339	0.001407	0.066215	0.000218	0.006420	0.003002	0.000838	0.008376
31-Jul-2022	16.010867	5.196790	6.982190	1.744200	20.159000	0.635079	0.015915	0.168839	0.026869	0.001105	0.001391	0.064118	0.000171	0.005830	0.002530	0.000721	0.007206
1-Aug-2022	15.817260	5.165980	6.925310	1.739620	20.063207	0.630602	0.015918	0.168906	0.026792	0.001099	0.001391	0.064273	0.000170	0.005806	0.002511	0.000716	0.007163
2-Aug-2022	15.476433	5.202070	6.992820	1.745510	20.177579	0.637030	0.015966	0.169328	0.026798	0.001112	0.001391	0.064519	0.000172	0.005828	0.002532	0.000722	0.007224
3-Aug-2022	15.682737	5.463210	7.476210	1.786050	20.996589	0.683465	0.016338	0.172995	0.027097	0.001191	0.001396	0.065261	0.000188	0.006008	0.002689	0.000763	0.007634
4-Aug-2022	15.442010	5.374890	7.310600	1.772330	20.719555	0.668735	0.016269	0.172451	0.027001	0.001167	0.001395	0.065210	0.000183	0.005951	0.002637	0.000750	0.007496
5-Aug-2022	15.044698	5.374060	7.312420	1.772780	20.719336	0.667720	0.016207	0.171760	0.026907	0.001167	0.001395	0.065245	0.000183	0.005940	0.002635	0.000750	0.007501
6-Aug-2022	15.217088	5.413200	7.382750	1.778860	20.842106	0.676343	0.016348	0.173317	0.026925	0.001186	0.001396	0.065804	0.000186	0.005968	0.002659	0.000757	0.007565
7-Aug-2022	13.933931	5.495390	7.534940	1.791700	21.100209	0.691068	0.016470	0.174588	0.027010	0.001211	0.001397	0.066081	0.000191	0.006025	0.002708	0.000770	0.007696
8-Aug-2022	13.507385	5.484790	7.515520	1.790460	21.068635	0.689772	0.016479	0.174795	0.026938	0.001213	0.001397	0.066329	0.000190	0.006014	0.002701	0.000768	0.007685
9-Aug-2022	12.468708	5.565480	7.657390	1.802880	21.321263	0.708790	0.016843	0.179068	0.027027	0.001257	0.001400	0.067714	0.000196	0.006080	0.002752	0.000782	0.007820
10-Aug-2022	12.077983	5.657880	7.831000	1.817450	21.611985	0.723375	0.016878	0.179129	0.027106	0.001278	0.001401	0.067616	0.000202	0.006139	0.002807	0.000796	0.007962
11-Aug-2022	11.780817	5.599410	7.727940	1.809000	21.431189	0.710782	0.016667	0.176784	0.026977	0.001253	0.001400	0.067081	0.000198	0.006087	0.002770	0.000787	0.007874
12-Aug-2022	11.307846	5.663320	7.846660	1.819150	21.632570	0.722070	0.016752	0.177610	0.027022	0.001273	0.001401	0.067309	0.000202	0.006129	0.002808	0.000798	0.007976
13-Aug-2022	11.021427	5.719070	7.949260	1.827960	21.808057	0.732262	0.016847	0.178576	0.027073	0.001292	0.001402	0.067588	0.000206	0.006167	0.002841	0.000806	0.008065
14-Aug-2022	10.596615	5.776890	8.055980	1.837140	21.990237	0.742897	0.016947	0.179610	0.027117	0.001311	0.001404	0.067904	0.000209	0.006206	0.002876	0.000816	0.008158
15-Aug-2022	9.842624	5.804490	8.107800	1.841730	22.078056	0.747775	0.016980	0.179937	0.027111	0.001321	0.001404	0.068090	0.000211	0.006221	0.002892	0.000820	0.008205
16-Aug-2022	9.322519	5.869040	8.227940	1.852020	22.281611	0.759095	0.017060	0.180710	0.027157	0.001341	0.001406	0.068335	0.000215	0.006263	0.002930	0.000831	0.008308
17-Aug-2022	10.673513	6.062030	8.581850	1.881740	22.885894	0.793679	0.017366	0.183701	0.027382	0.001400	0.001410	0.068916	0.000227	0.006403	0.003047	0.000860	0.008603
18-Aug-2022	10.390417	7.007560	10.307900	2.025120	25.837321	0.966598	0.019072	0.200712	0.028771	0.001688	0.001429	0.071682	0.000285	0.007114	0.003622	0.001004	0.010038
19-Aug-2022	11.142454	6.282630	8.984230	1.915720	23.576662	0.834527	0.017785	0.187914	0.027674	0.001475	0.001414	0.070049	0.000241	0.006566	0.003181	0.000895	0.008948
20-Aug-2022	10.958790	6.279750	8.982620	1.915830	23.569924	0.833279	0.017724	0.187276	0.027614	0.001474	0.001414	0.070044	0.000241	0.006554	0.003178	0.000895	0.008951
21-Aug-2022	9.996971	6.199080	8.835670	1.903910	23.319404	0.818388	0.017568	0.185733	0.027450	0.001451	0.001412	0.069960	0.000236	0.006490	0.003129	0.000883	0.008832
22-Aug-2022	9.699674	6.155510	8.757880	1.897760	23.185284	0.809773	0.017449	0.184494	0.027326	0.001437	0.001412	0.069820	0.000234	0.006451	0.003101	0.000877	0.008768
23-Aug-2022	9.023942	6.175400	8.795940	1.901210	23.249157	0.812956	0.017454	0.184505	0.027310	0.001443	0.001412	0.069907	0.000235	0.006461	0.003113	0.000880	0.008802
24-Aug-2022	8.074456	6.219320	8.877330	1.908290	23.387980	0.820733	0.017513	0.185085	0.027333	0.001458	0.001413	0.070154	0.000238	0.006489	0.003139	0.000887	0.008874
25-Aug-2022	7.391064	6.267160	8.966000	1.915980	23.539104	0.829131	0.017574	0.185676	0.027360	0.001474	0.001414	0.070378	0.000241	0.006520	0.003167	0.000895	0.008950
26-Aug-2022	6.946444	6.308470	9.042850	1.922670	23.669805	0.836320	0.017622	0.186132	0.027378	0.001488	0.001415	0.070585	0.000244	0.006546	0.003192	0.000902	0.009017
27-Aug-2022	6.896415	6.329770	9.083550	1.926390	23.738310	0.839677	0.017625	0.186117	0.027358	0.001495	0.001415	0.070702	0.000245	0.006556	0.003204	0.000905	0.009054
28-Aug-2022	7.299256	6.349450	9.121790	1.929870	23.801781	0.842557	0.017613	0.185923	0.027326	0.001500	0.001416	0.070794	0.000247	0.006563	0.003215	0.000909	0.009088
29-Aug-2022	7.051308	6.411010	9.235430	1.939600	23.995565	0.853521	0.017703	0.186819	0.027381	0.001520	0.001417	0.071031	0.000251	0.006605	0.003252	0.000919	0.009186
30-Aug-2022	6.741871	6.546930	9.484560	1.960520	24.421106	0.878035	0.017927	0.189017	0.027554	0.001562	0.001420	0.071461	0.000259	0.006704	0.003334	0.000939	0.009394
31-Aug-2022	6.809142	7.767620	11.713200	2.145680	28.231657	1.101100	0.020121	0.210918	0.029335	0.001933	0.001445	0.074978	0.000334	0.007622	0.004076	0.001125	0.011247
1-Sep-2022	7.177432	7.457240	11.147900	2.098810	27.263628	1.044180	0.019546	0.205156	0.028863	0.001839	0.001438	0.074097	0.000315	0.007385	0.003887	0.001078	0.010779
2-Sep-2022	6.810172	6.993970	10.307300	2.028250	25.816277	0.959553	0.018678	0.196456	0.028119	0.001700	0.001428	0.072851	0.000287	0.007027	0.003605	0.001008	0.010085
3-Sep-2022	6.645587	6.662360	9.702150	1.977810	24.780535	0.899241	0.018085	0.190543	0.027574	0.001604	0.001420	0.072130	0.000267	0.006776	0.003404	0.000958	0.009581
4-Sep-2022	5.688778	6.726060	9.818780	1.987480	24.979414	0.910679	0.018188	0.191571	0.027655	0.001622	0.001422	0.072263	0.000271	0.006823	0.003442	0.000968	0.009678
5-Sep-2022	5.158517	6.857680	10.061900	2.006940	25.388206	0.935146	0.018423	0.193939	0.027817	0.001664	0.001423	0.072665	0.000279	0.006918	0.003523	0.000988	0.009881
6-Sep-2022	5.126175	7.246970	10.776600	2.065320	26.600672	1.006730	0.019116	0.200870	0.028348	0.001783	0.001430	0.073933	0.000303	0.007205	0.003759	0.001048	0.010475
7-Sep-2022	5.455723	7.124540	10.549700	2.046990	26.219481	0.984556	0.018914	0.198776	0.028147	0.001754	0.001427	0.073936	0.000296	0.007117	0.003686	0.001029	0.010288
8-Sep-2022	4.834145	7.060460	10.434200	2.037360	26.019817	0.972610	0.018784	0.197531	0.028045	0.001731	0.001426	0.073496	0.000292	0.007066	0.003646	0.001019	0.010192
9-Sep-2022	3.775218	7.006490	10.341300	2.028330	25.847868	0.963283	0.018674	0.196458	0.027914	0.001715	0.001423	0.073302	0.000289	0.007018	0.003614	0.001012	0.010116
10-Sep-2022	3.452535	7.081550	10.476900	2.040190	26.084133	0.976714	0.018806	0.197758	0.028020	0.001738	0.001425	0.073538	0.000293	0.007075	0.003659	0.001023	0.010228
11-Sep-2022	3.923747	7.831250	11.844700	2.154090	28.425174	1.113590	0.020154	0.211205	0.029118	0.001966	0.001441	0.075705	0.000339	0.007640	0.004115	0.001136	0.011365
12-Sep-2022	4.112047	7.323270	10.919800	2.076550	26.837438	1.021240	0.019241	0.202026	0.028338	0.001815	0.001429	0.074410	0.000308	0.007255	0.003806	0.001060	0.010598
13-Sep-2022	3.129026	7.219380	10.732900	2.060530	26.512054	1.002310	0.019039	0.200043	0.028148	0.001783	0.001427	0.074033	0.000302	0.007172	0.003743	0.001044	0.010442

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Sep-2022	2.631477	7.225430	10.746400	2.061280	26.530250	1.003510	0.019038	0.200053	0.028121	0.001785	0.001426	0.074026	0.000303	0.007172	0.003747	0.001045	0.010454
15-Sep-2022	2.715277	7.293280	10.872200	2.071370	26.741222	1.015970	0.019150	0.201155	0.028200	0.001805	0.001427	0.074187	0.000307	0.007220	0.003788	0.001056	0.010558
16-Sep-2022	1.598914	7.388830	11.047100	2.085720	27.038903	1.033720	0.019328	0.202949	0.028321	0.001837	0.001428	0.074573	0.000313	0.007291	0.003846	0.001070	0.010705
17-Sep-2022	0.552509	7.514460	11.277700	2.104800	27.431173	1.056580	0.019543	0.205079	0.028481	0.001875	0.001431	0.074909	0.000321	0.007383	0.003922	0.001090	0.010896
18-Sep-2022	0.525255	7.495110	11.244900	2.101590	27.369637	1.053350	0.019505	0.204715	0.028427	0.001869	0.001430	0.074852	0.000320	0.007364	0.003911	0.001087	0.010870
19-Sep-2022	0.483253	7.920580	12.022700	2.165910	28.696906	1.131210	0.020265	0.212275	0.029023	0.002000	0.001438	0.076128	0.000346	0.007683	0.004170	0.001152	0.011516
20-Sep-2022	0.674657	8.287660	12.696200	2.221600	29.842836	1.198720	0.020929	0.218986	0.029539	0.002110	0.001445	0.077094	0.000368	0.007953	0.004392	0.001208	0.012078
21-Sep-2022	0.690379	8.049590	12.263200	2.185170	29.098356	1.154910	0.020474	0.214410	0.029149	0.002037	0.001439	0.076362	0.000354	0.007771	0.004248	0.001172	0.011716
22-Sep-2022	0.691611	8.264170	12.657400	2.217470	29.767174	1.194480	0.020859	0.218253	0.029431	0.002104	0.001443	0.077012	0.000367	0.007929	0.004378	0.001204	0.012045
23-Sep-2022	0.879588	8.107170	12.372800	2.193200	29.275201	1.165930	0.020566	0.215317	0.029174	0.002057	0.001439	0.076574	0.000358	0.007808	0.004283	0.001181	0.011808
24-Sep-2022	0.975400	8.299600	12.729100	2.221850	29.873680	1.201760	0.020911	0.218807	0.029407	0.002117	0.001441	0.077108	0.000370	0.007945	0.004400	0.001211	0.012106
25-Sep-2022	0.873095	8.156460	12.466800	2.200090	29.426651	1.175460	0.020650	0.216165	0.029195	0.002074	0.001438	0.076763	0.000361	0.007839	0.004313	0.001189	0.011888
26-Sep-2022	0.455786	7.947210	12.083400	2.168500	28.774066	1.137350	0.020283	0.212486	0.028879	0.002014	0.001434	0.076330	0.000348	0.007683	0.004186	0.001157	0.011570
27-Sep-2022	0.046260	7.850770	11.908000	2.154070	28.473833	1.119580	0.020100	0.210644	0.028718	0.001984	0.001432	0.076048	0.000342	0.007608	0.004127	0.001142	0.011424
28-Sep-2022	0.374564	8.213940	12.573400	2.208840	29.606211	1.186010	0.020739	0.216991	0.029213	0.002095	0.001439	0.077063	0.000365	0.007878	0.004348	0.001198	0.011976
29-Sep-2022	0.015323	8.067820	12.309300	2.186270	29.148406	1.159650	0.020474	0.214371	0.028976	0.002051	0.001435	0.076631	0.000356	0.007764	0.004259	0.001176	0.011758
30-Sep-2022	0.027811	7.955100	12.103900	2.169330	28.797186	1.139180	0.020273	0.212365	0.028785	0.002018	0.001433	0.076389	0.000349	0.007678	0.004191	0.001159	0.011588
1-Oct-2022	0.074566	7.945760	12.084500	2.168540	28.770610	1.136920	0.020248	0.212088	0.028811	0.002014	0.001435	0.076339	0.000348	0.007673	0.004185	0.001157	0.011570
2-Oct-2022	0.133969	7.732660	11.698100	2.135560	28.102688	1.098460	0.019868	0.208318	0.028466	0.001950	0.001430	0.075702	0.000336	0.007510	0.004056	0.001125	0.011250
3-Oct-2022	0.034255	7.680700	11.602300	2.127450	27.939547	1.089080	0.019780	0.207426	0.028388	0.001937	0.001429	0.075651	0.000332	0.007473	0.004024	0.001117	0.011169
4-Oct-2022	0.034618	7.641030	11.528100	2.122240	27.819036	1.081440	0.019707	0.206715	0.028351	0.001923	0.001428	0.075494	0.000330	0.007444	0.004000	0.001111	0.011107
5-Oct-2022	0.024551	7.622730	11.494100	2.119840	27.763458	1.077830	0.019669	0.206338	0.028335	0.001916	0.001427	0.075375	0.000329	0.007431	0.003988	0.001108	0.011078
6-Oct-2022	0.181315	7.611310	11.473300	2.117950	27.727159	1.075810	0.019650	0.206146	0.028316	0.001913	0.001427	0.075355	0.000328	0.007423	0.003981	0.001106	0.011060
7-Oct-2022	0.220397	7.597130	11.447600	2.115920	27.683392	1.073180	0.019621	0.205860	0.028302	0.001908	0.001427	0.075283	0.000327	0.007412	0.003973	0.001104	0.011038
8-Oct-2022	0.200217	7.576810	11.410100	2.112730	27.619517	1.069470	0.019587	0.205527	0.028270	0.001902	0.001426	0.075233	0.000326	0.007397	0.003961	0.001101	0.011007
9-Oct-2022	0.090530	7.539000	11.340300	2.107050	27.501715	1.062580	0.019523	0.204905	0.028219	0.001892	0.001425	0.075222	0.000323	0.007370	0.003938	0.001095	0.010948
10-Oct-2022	0.091050	7.535750	11.334700	2.106600	27.491747	1.061850	0.019511	0.204776	0.028219	0.001890	0.001426	0.075080	0.000323	0.007367	0.003936	0.001094	0.010943
11-Oct-2022	0.074535	7.510170	11.288000	2.102730	27.411937	1.057140	0.019463	0.204307	0.028185	0.001881	0.001425	0.074975	0.000322	0.007348	0.003920	0.001090	0.010903
12-Oct-2022	0.184662	7.488830	11.248700	2.099690	27.346132	1.053140	0.019422	0.203901	0.028164	0.001875	0.001424	0.074914	0.000320	0.007332	0.003907	0.001087	0.010869
13-Oct-2022	0.157568	7.472770	11.220300	2.096480	27.292811	1.050560	0.019398	0.203671	0.028122	0.001872	0.001423	0.074918	0.000319	0.007320	0.003898	0.001085	0.010845
14-Oct-2022	0.058100	7.458420	11.194500	2.094300	27.248002	1.047920	0.019370	0.203393	0.028103	0.001867	0.001423	0.074798	0.000318	0.007309	0.003889	0.001082	0.010823
15-Oct-2022	0.064759	7.437200	11.155500	2.091170	27.182126	1.043970	0.019330	0.203006	0.028076	0.001860	0.001423	0.074712	0.000317	0.007293	0.003876	0.001079	0.010790
16-Oct-2022	0.070239	7.452440	11.183800	2.093250	27.228746	1.046860	0.019358	0.203277	0.028092	0.001865	0.001423	0.074775	0.000318	0.007304	0.003885	0.001081	0.010814
17-Oct-2022	0.062235	7.494880	11.241000	2.111120	27.408308	1.051910	0.019492	0.204769	0.028374	0.001874	0.001439	0.075438	0.000320	0.007352	0.003906	0.001087	0.010873
18-Oct-2022	0.062136	7.557740	11.331300	2.127370	27.632186	1.060200	0.019656	0.206455	0.028580	0.001888	0.001450	0.076014	0.000322	0.007415	0.003937	0.001096	0.010964
19-Oct-2022	0.059791	7.620590	11.426100	2.145890	27.865388	1.069100	0.019820	0.208204	0.028833	0.001904	0.001462	0.076682	0.000325	0.007476	0.003970	0.001105	0.011055
20-Oct-2022	0.060389	7.676280	11.508800	2.162140	28.071364	1.076810	0.019970	0.209779	0.029052	0.001918	0.001473	0.077264	0.000327	0.007532	0.003999	0.001114	0.011136
21-Oct-2022	0.059664	7.713500	11.561300	2.172560	28.207212	1.081580	0.020070	0.210822	0.029187	0.001927	0.001480	0.077636	0.000328	0.007570	0.004017	0.001119	0.011189
22-Oct-2022	0.059259	7.738380	11.598700	2.179280	28.297010	1.085220	0.020138	0.211532	0.029274	0.001934	0.001484	0.077925	0.000329	0.007594	0.004031	0.001122	0.011225
23-Oct-2022	0.057089	7.751230	11.618800	2.182600	28.342768	1.087200	0.020171	0.211878	0.029318	0.001938	0.001486	0.078061	0.000330	0.007607	0.004038	0.001124	0.011244
24-Oct-2022	0.055990	7.780990	11.661500	2.191390	28.453276	1.091290	0.020257	0.212802	0.029435	0.001946	0.001492	0.078449	0.000331	0.007638	0.004053	0.001129	0.011286
25-Oct-2022	0.055384	7.807990	11.702300	2.199000	28.552033	1.095030	0.020325	0.213504	0.029538	0.001952	0.001497	0.078691	0.000332	0.007664	0.004067	0.001133	0.011326
26-Oct-2022	0.055419	7.834900	11.742900	2.206410	28.649742	1.098890	0.020396	0.214251	0.029636	0.001960	0.001502	0.078970	0.000334	0.007690	0.004081	0.001136	0.011365
27-Oct-2022	0.056201	7.865460	11.787400	2.215430	28.763194	1.103080	0.020480	0.215149	0.029758	0.001967	0.001509	0.079324	0.000335	0.007721	0.004097	0.001141	0.011409
28-Oct-2022	0.056415	7.900590	11.839400	2.225470	28.892259	1.107990	0.020575	0.216145	0.029893	0.001977	0.001516	0.079710	0.000336	0.007756	0.004115	0.001146	0.011460
29-Oct-2022	0.056916	7.940040	11.898500	2.236540	29.036352	1.113540	0.020678	0.217225	0.030042	0.001987	0.001523	0.080114	0.000338	0.007795	0.004136	0.001152	0.011517
30-Oct-2022	0.057628	7.972210	11.946700	2.245570	29.153866	1.118060	0.020762	0.218108	0.030163	0.001995	0.001529	0.080446	0.000339	0.007827	0.004153	0.001156	0.011563
31-Oct-2022	0.057647	8.000570	11.989500	2.253440	29.257089	1.122080	0.020835	0.218875	0.030268	0.002002	0.001535	0.080729	0.000341	0.007854	0.004167	0.001160	0.011605
1-Nov-2022	0.056882	8.032420	12.038100	2.262090	29.372239	1.126610	0.020914	0.219702	0.030383	0.002010	0.001540	0.081020	0.000342	0.007885	0.004184	0.001165	0.011651
2-Nov-2022	0.055920	8.054750	12.072800	2.267920	29.452005	1.129860	0.020968	0.220256	0.030460	0.002015	0.001544	0.081205	0.000343	0.007906	0.004196	0.001168	0.011684
3-Nov-2022	0.055093	8.066080	12.090800	2.270760	29.491991	1.131540	0.020994	0.220522	0.030497	0.002018	0.001546	0.081289	0.000344	0.007916	0.004202	0.001170	0.011700
4-Nov-2022	0.054632	8.086270	12.121600	2.276290	29.565178	1.134410	0.021044	0.221049	0.030571	0.002023	0.001549	0.081474	0.000344	0.007936	0.004213	0.001173	0.011730

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Nov-2022	0.054267	8.111920	12.160300	2.283400	29.658505	1.138030	0.021110	0.221736	0.030666	0.002030	0.001554	0.081724	0.000346	0.007961	0.004226	0.001177	0.011767
6-Nov-2022	0.053625	8.143670	12.208000	2.292280	29.774353	1.142520	0.021193	0.222613	0.030785	0.002038	0.001560	0.082052	0.000347	0.007992	0.004243	0.001181	0.011813
7-Nov-2022	0.052697	8.171210	12.248800	2.300190	29.875694	1.146340	0.021266	0.223384	0.030892	0.002045	0.001566	0.082343	0.000348	0.008019	0.004257	0.001185	0.011853
8-Nov-2022	0.051610	8.206000	12.301200	2.309850	30.002344	1.151290	0.021357	0.224340	0.031020	0.002054	0.001572	0.082698	0.000350	0.008053	0.004275	0.001190	0.011903
9-Nov-2022	0.050225	8.238390	12.349900	2.318890	30.120449	1.155880	0.021442	0.225232	0.031141	0.002062	0.001578	0.083030	0.000351	0.008085	0.004292	0.001195	0.011950
10-Nov-2022	0.047513	8.269120	12.396100	2.327470	30.232514	1.160220	0.021522	0.226073	0.031255	0.002070	0.001584	0.083341	0.000352	0.008115	0.004308	0.001200	0.011995
11-Nov-2022	0.046373	8.296090	12.436800	2.334950	30.330661	1.164040	0.021592	0.226803	0.031355	0.002077	0.001589	0.083608	0.000353	0.008141	0.004322	0.001203	0.012034
12-Nov-2022	0.046231	8.324790	12.479300	2.343170	30.436175	1.168060	0.021670	0.227624	0.031466	0.002084	0.001595	0.083925	0.000355	0.008170	0.004337	0.001208	0.012076
13-Nov-2022	0.044703	8.350020	12.517300	2.350190	30.528082	1.171630	0.021735	0.228315	0.031559	0.002091	0.001600	0.084181	0.000356	0.008195	0.004351	0.001211	0.012113
14-Nov-2022	0.043978	8.382650	12.566400	2.359290	30.647033	1.176230	0.021819	0.229195	0.031681	0.002099	0.001606	0.084500	0.000357	0.008226	0.004368	0.001216	0.012160
15-Nov-2022	0.044345	8.423720	12.627500	2.371000	30.797807	1.181970	0.021928	0.230345	0.031839	0.002109	0.001614	0.084935	0.000359	0.008267	0.004389	0.001222	0.012219
16-Nov-2022	0.044478	8.466470	12.691600	2.383020	30.954052	1.187970	0.022039	0.231513	0.032000	0.002120	0.001622	0.085365	0.000361	0.008309	0.004411	0.001228	0.012281
17-Nov-2022	0.044592	8.334230	12.492300	2.346100	30.471812	1.169390	0.021702	0.227973	0.031504	0.002087	0.001597	0.084090	0.000355	0.008180	0.004342	0.001209	0.012089
18-Nov-2022	0.044348	8.351880	12.519800	2.350750	30.535033	1.171920	0.021743	0.228397	0.031566	0.002091	0.001600	0.084224	0.000356	0.008197	0.004352	0.001212	0.012115
19-Nov-2022	0.044187	8.375440	12.555700	2.357260	30.620670	1.175240	0.021815	0.229201	0.031656	0.002098	0.001605	0.084644	0.000357	0.008219	0.004364	0.001215	0.012150
20-Nov-2022	0.044193	8.400700	12.593200	2.366680	30.722536	1.178790	0.021907	0.230181	0.031784	0.002107	0.001612	0.085058	0.000358	0.008251	0.004377	0.001219	0.012186
21-Nov-2022	0.044250	8.435320	12.644100	2.374550	30.841391	1.183590	0.021973	0.230850	0.031888	0.002113	0.001617	0.085232	0.000359	0.008279	0.004395	0.001224	0.012236
22-Nov-2022	0.044135	8.472060	12.698300	2.385080	30.976493	1.188700	0.022063	0.231774	0.032028	0.002122	0.001624	0.085501	0.000361	0.008316	0.004414	0.001229	0.012289
23-Nov-2022	0.043937	8.506970	12.749800	2.395160	31.105173	1.193560	0.022158	0.232782	0.032164	0.002131	0.001631	0.085893	0.000362	0.008351	0.004432	0.001234	0.012340
24-Nov-2022	0.043440	8.521740	12.763600	2.401900	31.169809	1.195240	0.022240	0.233709	0.032259	0.002139	0.001637	0.086434	0.000363	0.008374	0.004439	0.001236	0.012359
25-Nov-2022	0.043140	8.555130	12.815900	2.410490	31.288557	1.200060	0.022314	0.234462	0.032373	0.002146	0.001642	0.086704	0.000364	0.008404	0.004456	0.001241	0.012408
26-Nov-2022	0.043093	8.592660	12.876400	2.419820	31.420691	1.205500	0.022391	0.235264	0.032496	0.002154	0.001648	0.086941	0.000366	0.008437	0.004476	0.001246	0.012464
27-Nov-2022	0.043074	8.628800	12.931000	2.429850	31.552236	1.210610	0.022483	0.236203	0.032630	0.002162	0.001655	0.087189	0.000367	0.008472	0.004495	0.001252	0.012516
28-Nov-2022	0.042944	8.632140	12.937400	2.430340	31.562594	1.211160	0.022485	0.236217	0.032636	0.002163	0.001655	0.087205	0.000368	0.008474	0.004497	0.001252	0.012521
29-Nov-2022	0.042813	8.664530	12.979800	2.441250	31.688399	1.215450	0.022600	0.237473	0.032785	0.002174	0.001663	0.087771	0.000369	0.008511	0.004513	0.001257	0.012567
30-Nov-2022	0.042765	8.697850	13.031900	2.449980	31.807549	1.220220	0.022678	0.238290	0.032901	0.002181	0.001669	0.088061	0.000370	0.008542	0.004531	0.001262	0.012616
1-Dec-2022	0.042677	8.736820	13.091100	2.460730	31.949126	1.225740	0.022775	0.239288	0.033045	0.002191	0.001676	0.088378	0.000372	0.008580	0.004551	0.001267	0.012673
2-Dec-2022	0.042592	8.758250	13.126200	2.465880	32.023844	1.228870	0.022815	0.239692	0.033113	0.002195	0.001679	0.088500	0.000373	0.008598	0.004563	0.001270	0.012704
3-Dec-2022	0.042335	8.778860	13.157200	2.471630	32.098986	1.231780	0.022869	0.240251	0.033190	0.002200	0.001683	0.088672	0.000374	0.008618	0.004574	0.001273	0.012734
4-Dec-2022	0.042219	8.804940	13.196300	2.479000	32.194457	1.235430	0.022937	0.240966	0.033289	0.002206	0.001688	0.088926	0.000375	0.008644	0.004587	0.001277	0.012772
5-Dec-2022	0.042248	8.837240	13.244400	2.488160	32.312831	1.239960	0.023022	0.241863	0.033412	0.002215	0.001694	0.089289	0.000376	0.008676	0.004604	0.001282	0.012819
6-Dec-2022	0.042413	8.872860	13.296700	2.498460	32.444190	1.244950	0.023122	0.242920	0.033550	0.002224	0.001701	0.089685	0.000378	0.008712	0.004623	0.001287	0.012870
7-Dec-2022	0.042460	8.916090	13.361800	2.510550	32.601922	1.251020	0.023233	0.244083	0.033712	0.002235	0.001709	0.090106	0.000380	0.008754	0.004645	0.001293	0.012933
8-Dec-2022	0.042402	8.942040	13.401400	2.517660	32.695998	1.254700	0.023297	0.244756	0.033807	0.002241	0.001714	0.090340	0.000381	0.008779	0.004659	0.001297	0.012971
9-Dec-2022	0.042365	8.965800	13.437600	2.524150	32.782052	1.258070	0.023357	0.245375	0.033894	0.002247	0.001718	0.090557	0.000382	0.008802	0.004671	0.001301	0.013005
10-Dec-2022	0.042337	8.994750	13.481300	2.532190	32.887449	1.262160	0.023431	0.246149	0.034001	0.002254	0.001724	0.090836	0.000383	0.008830	0.004686	0.001305	0.013047
11-Dec-2022	0.042266	9.024940	13.526700	2.540640	32.997631	1.266400	0.023508	0.246966	0.034115	0.002262	0.001730	0.091134	0.000384	0.008859	0.004702	0.001309	0.013091
12-Dec-2022	0.042259	9.059960	13.579100	2.550530	33.125803	1.271310	0.023600	0.247931	0.034248	0.002271	0.001736	0.091492	0.000386	0.008894	0.004720	0.001314	0.013142
13-Dec-2022	0.042278	9.103420	13.644100	2.562800	33.284850	1.277400	0.023714	0.249125	0.034412	0.002281	0.001745	0.091935	0.000388	0.008937	0.004743	0.001321	0.013205
14-Dec-2022	0.042238	9.134490	13.690800	2.571530	33.398382	1.281760	0.023794	0.249972	0.034530	0.002289	0.001751	0.092246	0.000389	0.008967	0.004759	0.001325	0.013250
15-Dec-2022	0.042147	9.167770	13.740200	2.581030	33.520603	1.286410	0.023883	0.250908	0.034657	0.002298	0.001757	0.092602	0.000390	0.009000	0.004777	0.001330	0.013298
16-Dec-2022	0.042121	9.197080	13.783900	2.589330	33.627970	1.290520	0.023961	0.251725	0.034769	0.002305	0.001763	0.092909	0.000392	0.009029	0.004792	0.001334	0.013341
17-Dec-2022	0.042094	9.215680	13.812500	2.594380	33.695210	1.293150	0.024006	0.252189	0.034837	0.002309	0.001766	0.093063	0.000393	0.009047	0.004802	0.001337	0.013368
18-Dec-2022	0.042042	9.247770	13.860700	2.603390	33.812442	1.297660	0.024089	0.253066	0.034957	0.002318	0.001772	0.093386	0.000394	0.009078	0.004818	0.001341	0.013415
19-Dec-2022	0.042036	9.277400	13.905100	2.611720	33.920731	1.301830	0.024166	0.253877	0.035069	0.002325	0.001778	0.093685	0.000395	0.009107	0.004834	0.001346	0.013458
20-Dec-2022	0.042030	9.307670	13.950500	2.620230	34.031359	1.306080	0.024245	0.254705	0.035183	0.002333	0.001784	0.093991	0.000396	0.009137	0.004849	0.001350	0.013501
21-Dec-2022	0.042017	9.344040	14.005000	2.630460	34.164302	1.311190	0.024340	0.255699	0.035321	0.002342	0.001791	0.094357	0.000398	0.009173	0.004868	0.001355	0.013554
22-Dec-2022	0.042035	9.381210	14.060700	2.640930	34.300231	1.316400	0.024437	0.256718	0.035461	0.002351	0.001798	0.094734	0.000400	0.009209	0.004888	0.001361	0.013608
23-Dec-2022	0.042049	9.418050	14.115800	2.651330	34.435048	1.321570	0.024533	0.257732	0.035601	0.002360	0.001805	0.095110	0.000401	0.009245	0.004907	0.001366	0.013662
24-Dec-2022	0.042042	9.452910	14.168100	2.661140	34.562491	1.326460	0.024624	0.258687	0.035733	0.002369	0.001812	0.095463	0.000403	0.009280	0.004925	0.001371	0.013712
25-Dec-2022	0.042008	9.488670	14.221700	2.671200	34.693211	1.331480	0.024717	0.259664	0.035868	0.002378	0.001818	0.095823	0.000404	0.009315	0.004944	0.001376	0.013764
26-Dec-2022	0.041994	9.539330	14.297600	2.685460	34.878431	1.338590	0.024849	0.261052	0.036059	0.002391	0.001828	0.096336	0.000406	0.009364	0.004970	0.001384	0.013837

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
27-Dec-2022	0.041959	9.580860	14.359800	2.697170	35.030353	1.344420	0.024958	0.262193	0.036216	0.002401	0.001836	0.096759	0.000408	0.009405	0.004992	0.001390	0.013898
28-Dec-2022	0.041878	9.616340	14.413000	2.707150	35.160045	1.349400	0.025050	0.263165	0.036350	0.002410	0.001843	0.097118	0.000410	0.009440	0.005010	0.001395	0.013949
29-Dec-2022	0.041811	9.651300	14.465400	2.716970	35.287779	1.354310	0.025141	0.264121	0.036482	0.002419	0.001850	0.097471	0.000411	0.009474	0.005029	0.001400	0.014000
30-Dec-2022	0.041747	9.689250	14.521600	2.727850	35.427344	1.359610	0.025243	0.265200	0.036628	0.002429	0.001857	0.097885	0.000413	0.009512	0.005048	0.001405	0.014055
31-Dec-2022	0.041699	9.736090	14.591700	2.741070	35.598743	1.366180	0.025366	0.266488	0.036806	0.002441	0.001866	0.098363	0.000415	0.009558	0.005073	0.001412	0.014123
1-Jan-2023	0.041673	9.769990	14.642700	2.750550	35.722430	1.370950	0.025454	0.267407	0.036933	0.002449	0.001873	0.098699	0.000416	0.009591	0.005090	0.001417	0.014172
2-Jan-2023	0.041641	9.815180	14.710500	2.763250	35.887568	1.377300	0.025571	0.268642	0.037103	0.002460	0.001881	0.099154	0.000418	0.009636	0.005114	0.001424	0.014238
3-Jan-2023	0.041611	9.867020	14.788000	2.777910	36.077382	1.384560	0.025707	0.270072	0.037300	0.002473	0.001891	0.099686	0.000420	0.009687	0.005141	0.001431	0.014313
4-Jan-2023	0.041573	9.895120	14.830200	2.785780	36.179957	1.388510	0.025780	0.270836	0.037406	0.002480	0.001897	0.099966	0.000421	0.009714	0.005156	0.001435	0.014353
5-Jan-2023	0.041549	9.936090	14.891700	2.797280	36.329616	1.394270	0.025886	0.271951	0.037560	0.002491	0.001904	0.100375	0.000423	0.009754	0.005177	0.001441	0.014413
6-Jan-2023	0.041506	10.005000	14.994700	2.816760	36.581903	1.403930	0.026067	0.273855	0.037822	0.002508	0.001918	0.101085	0.000426	0.009822	0.005213	0.001451	0.014513
7-Jan-2023	0.041452	10.037400	15.043400	2.825850	36.700238	1.408480	0.026151	0.274738	0.037944	0.002516	0.001924	0.101410	0.000428	0.009854	0.005230	0.001456	0.014560
8-Jan-2023	0.041432	10.073500	15.097600	2.835950	36.831972	1.413550	0.026244	0.275716	0.038079	0.002525	0.001931	0.101767	0.000429	0.009889	0.005248	0.001461	0.014612
9-Jan-2023	0.041401	10.137300	15.193000	2.854000	37.065610	1.422500	0.026412	0.277479	0.038322	0.002541	0.001943	0.102424	0.000432	0.009952	0.005282	0.001470	0.014705
10-Jan-2023	0.041360	10.164000	15.233000	2.861490	37.163124	1.426250	0.026481	0.278208	0.038422	0.002548	0.001948	0.102692	0.000433	0.009978	0.005296	0.001474	0.014743
11-Jan-2023	0.041347	10.195000	15.279800	2.870170	37.276275	1.430620	0.026561	0.279047	0.038539	0.002556	0.001954	0.102998	0.000434	0.010009	0.005312	0.001479	0.014788
12-Jan-2023	0.041340	10.246800	15.357200	2.884770	37.465742	1.437880	0.026697	0.280470	0.038735	0.002569	0.001964	0.103526	0.000436	0.010060	0.005339	0.001486	0.014864
13-Jan-2023	0.041316	10.299100	15.435500	2.899590	37.657364	1.445210	0.026834	0.281917	0.038934	0.002582	0.001974	0.104066	0.000439	0.010111	0.005366	0.001494	0.014939
14-Jan-2023	0.041276	10.312400	15.455600	2.903250	37.705646	1.447090	0.026868	0.282269	0.038983	0.002585	0.001976	0.104191	0.000439	0.010124	0.005373	0.001496	0.014959
15-Jan-2023	0.041257	10.344100	15.503100	2.912130	37.821369	1.451540	0.026950	0.283133	0.039102	0.002593	0.001983	0.104509	0.000441	0.010155	0.005389	0.001500	0.015005
16-Jan-2023	0.041227	10.400800	15.587600	2.928250	38.029331	1.459470	0.027100	0.284713	0.039319	0.002608	0.001994	0.105103	0.000443	0.010211	0.005419	0.001509	0.015087
17-Jan-2023	0.041182	10.411000	15.603100	2.931060	38.066372	1.460920	0.027126	0.284984	0.039356	0.002610	0.001995	0.105200	0.000443	0.010221	0.005424	0.001510	0.015102
18-Jan-2023	0.041170	10.444400	15.653400	2.940430	38.188358	1.465630	0.027213	0.285892	0.039482	0.002618	0.002002	0.105532	0.000445	0.010254	0.005442	0.001515	0.015150
19-Jan-2023	0.041155	10.492300	15.725200	2.953910	38.363474	1.472350	0.027338	0.287203	0.039663	0.002630	0.002011	0.106016	0.000447	0.010301	0.005467	0.001522	0.015220
20-Jan-2023	0.041128	10.554000	15.817000	2.971430	38.589687	1.480970	0.027501	0.288921	0.039898	0.002646	0.002023	0.106662	0.000450	0.010362	0.005499	0.001531	0.015309
21-Jan-2023	0.041115	10.624100	15.922800	2.990970	38.845192	1.490840	0.027680	0.290796	0.040161	0.002663	0.002036	0.107337	0.000453	0.010430	0.005535	0.001541	0.015411
22-Jan-2023	0.041102	10.695500	16.029700	3.011080	39.106291	1.500850	0.027866	0.292753	0.040431	0.002681	0.002050	0.108060	0.000456	0.010500	0.005573	0.001551	0.015514
23-Jan-2023	0.041076	10.773100	16.146000	3.032930	39.390036	1.511730	0.028068	0.294880	0.040724	0.002701	0.002065	0.108847	0.000459	0.010576	0.005613	0.001563	0.015627
24-Jan-2023	0.041048	10.841900	16.249000	3.052390	39.641966	1.521390	0.028249	0.296782	0.040985	0.002718	0.002078	0.109555	0.000462	0.010644	0.005649	0.001573	0.015727
25-Jan-2023	0.041006	10.904200	16.342200	3.069900	39.869636	1.530120	0.028411	0.298484	0.041220	0.002734	0.002090	0.110186	0.000464	0.010705	0.005681	0.001582	0.015817
26-Jan-2023	0.040972	10.963400	16.431000	3.086580	40.086146	1.538440	0.028566	0.300106	0.041444	0.002749	0.002101	0.110783	0.000467	0.010763	0.005712	0.001590	0.015903
27-Jan-2023	0.040961	11.008000	16.498000	3.099080	40.248987	1.544710	0.028681	0.301316	0.041612	0.002760	0.002110	0.111225	0.000469	0.010807	0.005735	0.001597	0.015968
28-Jan-2023	0.040951	11.045500	16.554400	3.109580	40.385864	1.549980	0.028778	0.302333	0.041753	0.002769	0.002117	0.111596	0.000470	0.010844	0.005755	0.001602	0.016022
29-Jan-2023	0.040941	11.087800	16.618000	3.121460	40.540409	1.555930	0.028888	0.303486	0.041912	0.002780	0.002125	0.112020	0.000472	0.010885	0.005777	0.001608	0.016084
30-Jan-2023	0.040928	11.124800	16.673300	3.131850	40.675584	1.561110	0.028984	0.304496	0.042052	0.002789	0.002132	0.112392	0.000474	0.010921	0.005796	0.001614	0.016137
31-Jan-2023	0.040915	11.178600	16.754100	3.146970	40.872187	1.568680	0.029124	0.305964	0.042255	0.002802	0.002142	0.112933	0.000476	0.010974	0.005824	0.001622	0.016215
1-Feb-2023	0.040908	11.241300	16.848100	3.164610	41.101390	1.577470	0.029287	0.307680	0.042492	0.002818	0.002154	0.113566	0.000479	0.011036	0.005857	0.001631	0.016306
2-Feb-2023	0.040900	11.301400	16.938100	3.181540	41.321178	1.585910	0.029444	0.309327	0.042719	0.002833	0.002166	0.114175	0.000481	0.011095	0.005888	0.001639	0.016393
3-Feb-2023	0.040892	11.356700	17.021100	3.197130	41.523461	1.593680	0.029588	0.310844	0.042928	0.002847	0.002176	0.114735	0.000484	0.011149	0.005917	0.001647	0.016474
4-Feb-2023	0.040883	11.406000	17.094900	3.211000	41.703680	1.600590	0.029716	0.312193	0.043114	0.002859	0.002186	0.115234	0.000486	0.011197	0.005943	0.001655	0.016545
5-Feb-2023	0.040875	11.453400	17.166000	3.224340	41.876972	1.607240	0.029840	0.313490	0.043293	0.002871	0.002195	0.115712	0.000488	0.011244	0.005968	0.001661	0.016614
6-Feb-2023	0.040864	11.322800	16.970300	3.187570	41.399445	1.588930	0.029500	0.309915	0.042800	0.002839	0.002170	0.114392	0.000482	0.011116	0.005900	0.001642	0.016425
7-Feb-2023	0.040856	11.357800	17.022700	3.197390	41.527279	1.593830	0.029591	0.310870	0.042932	0.002847	0.002177	0.114744	0.000484	0.011150	0.005918	0.001648	0.016475
8-Feb-2023	0.040857	11.398400	17.083700	3.208840	41.675808	1.599540	0.029696	0.311983	0.043085	0.002858	0.002184	0.115155	0.000486	0.011190	0.005939	0.001653	0.016534
9-Feb-2023	0.040866	11.442900	17.150300	3.221340	41.838399	1.605780	0.029812	0.313199	0.043253	0.002869	0.002193	0.115603	0.000487	0.011234	0.005962	0.001660	0.016599
10-Feb-2023	0.040869	11.485900	17.214800	3.233440	41.995598	1.611820	0.029924	0.314375	0.043415	0.002879	0.002201	0.116037	0.000489	0.011276	0.005984	0.001666	0.016661
11-Feb-2023	0.040866	11.525700	17.274500	3.244640	42.141100	1.617400	0.030028	0.315464	0.043566	0.002889	0.002209	0.116439	0.000491	0.011315	0.006005	0.001672	0.016719
12-Feb-2023	0.040865	11.566100	17.335200	3.255920	42.288430	1.623100	0.030132	0.316561	0.043717	0.002900	0.002216	0.116841	0.000493	0.011354	0.006026	0.001678	0.016778
13-Feb-2023	0.040866	11.617000	17.411600	3.270240	42.474497	1.630240	0.030265	0.317953	0.043909	0.002912	0.002226	0.117354	0.000495	0.011404	0.006053	0.001685	0.016851
14-Feb-2023	0.040861	11.669600	17.490500	3.285050	42.666827	1.637630	0.030402	0.319393	0.044108	0.002926	0.002236	0.117886	0.000497	0.011456	0.006080	0.001693	0.016928
15-Feb-2023	0.040859	11.723100	17.570600	3.300100	42.862393	1.645130	0.030541	0.320855	0.044310	0.002939	0.002246	0.118425	0.000499	0.011508	0.006108	0.001701	0.017005
16-Feb-2023	0.040854	11.775500	17.649200	3.314850	43.053976	1.652490	0.030678	0.322289	0.044508	0.002952	0.002257	0.118954	0.000502	0.011560	0.006135	0.001708	0.017081

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
17-Feb-2023	0.040847	11.827400	17.727000	3.329460	43.243734	1.659780	0.030813	0.323710	0.044704	0.002965	0.002266	0.119478	0.000504	0.011611	0.006163	0.001716	0.017157
18-Feb-2023	0.040845	11.880200	17.806100	3.344350	43.436893	1.667190	0.030951	0.325157	0.044904	0.002978	0.002277	0.120013	0.000506	0.011663	0.006190	0.001723	0.017233
19-Feb-2023	0.040841	11.935700	17.889200	3.359960	43.639758	1.674960	0.031095	0.326675	0.045114	0.002992	0.002287	0.120573	0.000508	0.011717	0.006219	0.001731	0.017314
20-Feb-2023	0.040831	11.989300	17.969700	3.375040	43.835697	1.682500	0.031235	0.328140	0.045316	0.003006	0.002297	0.121113	0.000511	0.011770	0.006247	0.001739	0.017391
21-Feb-2023	0.040820	12.041100	18.047400	3.389590	44.024958	1.689770	0.031369	0.329554	0.045511	0.003019	0.002307	0.121634	0.000513	0.011821	0.006274	0.001747	0.017467
22-Feb-2023	0.040810	12.093300	18.125600	3.404260	44.215713	1.697100	0.031505	0.330979	0.045708	0.003032	0.002317	0.122159	0.000515	0.011872	0.006301	0.001754	0.017542
23-Feb-2023	0.040805	12.147900	18.207500	3.419620	44.415301	1.704770	0.031647	0.332473	0.045915	0.003045	0.002328	0.122710	0.000517	0.011925	0.006330	0.001762	0.017622
24-Feb-2023	0.040807	12.203900	18.291400	3.435370	44.619992	1.712620	0.031793	0.334003	0.046126	0.003059	0.002339	0.123274	0.000520	0.011980	0.006359	0.001770	0.017703
25-Feb-2023	0.040810	12.216400	18.310200	3.438910	44.665782	1.714380	0.031826	0.334348	0.046174	0.003063	0.002341	0.123402	0.000520	0.011993	0.006365	0.001772	0.017721
26-Feb-2023	0.040811	12.270100	18.390700	3.454030	44.862135	1.721920	0.031966	0.335818	0.046377	0.003076	0.002351	0.123944	0.000523	0.012045	0.006393	0.001780	0.017799
27-Feb-2023	0.040808	12.323400	18.470500	3.469000	45.056872	1.729390	0.032104	0.337273	0.046578	0.003089	0.002361	0.124480	0.000525	0.012097	0.006421	0.001788	0.017876
28-Feb-2023	0.040804	12.383600	18.560900	3.485960	45.277032	1.737850	0.032261	0.338921	0.046805	0.003104	0.002373	0.125088	0.000528	0.012157	0.006452	0.001796	0.017963
1-Mar-2023	0.040801	12.445500	18.653600	3.503370	45.503291	1.746530	0.032422	0.340614	0.047039	0.003120	0.002385	0.125713	0.000530	0.012217	0.006485	0.001805	0.018053
2-Mar-2023	0.040799	12.507100	18.745900	3.520700	45.728471	1.755170	0.032583	0.342299	0.047272	0.003135	0.002397	0.126335	0.000533	0.012278	0.006517	0.001814	0.018143
3-Mar-2023	0.040797	12.569500	18.839500	3.538280	45.956679	1.763930	0.032745	0.344007	0.047508	0.003151	0.002409	0.126965	0.000535	0.012339	0.006549	0.001823	0.018233
4-Mar-2023	0.040794	12.631000	18.931600	3.555580	46.181485	1.772560	0.032905	0.345690	0.047740	0.003166	0.002420	0.127586	0.000538	0.012399	0.006581	0.001832	0.018322
5-Mar-2023	0.040792	12.691400	19.022300	3.572600	46.402393	1.781050	0.033063	0.347344	0.047969	0.003182	0.002432	0.128197	0.000541	0.012459	0.006613	0.001841	0.018410
6-Mar-2023	0.040789	12.749500	19.109300	3.588930	46.614715	1.789190	0.033214	0.348932	0.048188	0.003196	0.002443	0.128782	0.000543	0.012516	0.006643	0.001849	0.018494
7-Mar-2023	0.040785	12.802200	19.188300	3.603760	46.807377	1.796590	0.033351	0.350372	0.048387	0.003209	0.002453	0.129314	0.000545	0.012567	0.006670	0.001857	0.018571
8-Mar-2023	0.040779	12.860000	19.274900	3.620020	47.018662	1.804700	0.033502	0.351953	0.048605	0.003224	0.002464	0.129897	0.000548	0.012624	0.006701	0.001865	0.018654
9-Mar-2023	0.040775	12.914700	19.357000	3.635430	47.218707	1.812390	0.033644	0.353451	0.048812	0.003238	0.002475	0.130449	0.000550	0.012678	0.006729	0.001873	0.018734
10-Mar-2023	0.040771	12.975800	19.448600	3.652620	47.442062	1.820960	0.033803	0.355122	0.049043	0.003253	0.002486	0.131066	0.000553	0.012738	0.006761	0.001882	0.018823
11-Mar-2023	0.040768	13.031400	19.531900	3.668260	47.645300	1.828770	0.033948	0.356643	0.049253	0.003267	0.002497	0.131626	0.000555	0.012792	0.006790	0.001890	0.018903
12-Mar-2023	0.040765	13.082400	19.608500	3.682620	47.831782	1.835930	0.034081	0.358038	0.049446	0.003280	0.002507	0.132141	0.000557	0.012842	0.006816	0.001898	0.018977
13-Mar-2023	0.040761	13.147100	19.705400	3.700810	48.068244	1.845000	0.034249	0.359807	0.049690	0.003296	0.002519	0.132794	0.000560	0.012906	0.006850	0.001907	0.019071
14-Mar-2023	0.040758	13.218800	19.812800	3.720990	48.330380	1.855060	0.034436	0.361768	0.049961	0.003314	0.002533	0.133517	0.000563	0.012976	0.006888	0.001917	0.019175
15-Mar-2023	0.040755	13.285500	19.912800	3.739770	48.574266	1.864430	0.034610	0.363594	0.050213	0.003330	0.002546	0.134191	0.000566	0.013042	0.006922	0.001927	0.019272
16-Mar-2023	0.040752	13.347500	20.005800	3.757230	48.800981	1.873130	0.034771	0.365291	0.050447	0.003346	0.002558	0.134817	0.000569	0.013103	0.006955	0.001936	0.019362
17-Mar-2023	0.040750	13.409300	20.098400	3.774600	49.026825	1.881800	0.034932	0.366980	0.050681	0.003361	0.002569	0.135440	0.000571	0.013163	0.006987	0.001945	0.019451
18-Mar-2023	0.040748	13.471800	20.192200	3.792210	49.255405	1.890580	0.035095	0.368692	0.050917	0.003377	0.002581	0.136072	0.000574	0.013225	0.007019	0.001954	0.019542
19-Mar-2023	0.040746	13.532700	20.283400	3.809340	49.478014	1.899120	0.035253	0.370358	0.051147	0.003392	0.002593	0.136687	0.000576	0.013284	0.007051	0.001963	0.019630
20-Mar-2023	0.040745	13.599300	20.383200	3.828080	49.721486	1.908460	0.035427	0.372179	0.051399	0.003409	0.002606	0.137359	0.000579	0.013350	0.007086	0.001973	0.019727
21-Mar-2023	0.040743	13.668500	20.486900	3.847570	49.974538	1.918180	0.035607	0.374074	0.051660	0.003426	0.002619	0.138058	0.000582	0.013418	0.007122	0.001983	0.019827
22-Mar-2023	0.040742	13.738000	20.591000	3.867120	50.228586	1.927930	0.035788	0.375975	0.051923	0.003444	0.002632	0.138759	0.000585	0.013486	0.007158	0.001993	0.019928
23-Mar-2023	0.040742	13.805100	20.691700	3.886030	50.474006	1.937360	0.035963	0.377813	0.052177	0.003461	0.002645	0.139438	0.000588	0.013552	0.007193	0.002003	0.020026
24-Mar-2023	0.040741	13.850900	20.760300	3.898910	50.641409	1.943780	0.036082	0.379066	0.052350	0.003472	0.002654	0.139900	0.000590	0.013597	0.007217	0.002009	0.020092
25-Mar-2023	0.040740	13.888000	20.816000	3.909350	50.777039	1.948990	0.036179	0.380081	0.052490	0.003482	0.002661	0.140275	0.000592	0.013633	0.007236	0.002015	0.020146
26-Mar-2023	0.040739	13.957900	20.920700	3.929020	51.032581	1.958790	0.036361	0.381992	0.052754	0.003499	0.002674	0.140980	0.000595	0.013702	0.007273	0.002025	0.020247
27-Mar-2023	0.040738	14.029800	21.028400	3.949250	51.295422	1.968880	0.036548	0.383959	0.053026	0.003517	0.002688	0.141706	0.000598	0.013772	0.007310	0.002035	0.020351
28-Mar-2023	0.040738	14.096100	21.127800	3.967920	51.537856	1.978180	0.036721	0.385774	0.053276	0.003534	0.002701	0.142376	0.000600	0.013837	0.007345	0.002045	0.020448
29-Mar-2023	0.040738	14.153700	21.214200	3.984130	51.748436	1.986270	0.036871	0.387350	0.053494	0.003548	0.002712	0.142957	0.000603	0.013894	0.007375	0.002053	0.020531
30-Mar-2023	0.040737	14.222100	21.316700	4.003390	51.998544	1.995870	0.037049	0.389222	0.053752	0.003565	0.002725	0.143648	0.000606	0.013961	0.007410	0.002063	0.020630
31-Mar-2023	0.040736	14.122800	21.167900	3.975440	51.635494	1.981940	0.036791	0.386505	0.053377	0.003540	0.002706	0.142645	0.000602	0.013864	0.007359	0.002049	0.020486
1-Apr-2023	0.040736	14.171900	21.241500	3.989260	51.815007	1.988830	0.036918	0.387848	0.053563	0.003553	0.002715	0.143141	0.000604	0.013912	0.007384	0.002056	0.020558
2-Apr-2023	0.040735	14.137200	21.189600	3.979500	51.688169	1.983960	0.036828	0.386899	0.053432	0.003544	0.002709	0.142790	0.000602	0.013878	0.007366	0.002051	0.020507
3-Apr-2023	0.040735	14.106700	21.143800	3.970910	51.576637	1.979680	0.036749	0.386064	0.053316	0.003536	0.002703	0.142482	0.000601	0.013848	0.007350	0.002046	0.020463
4-Apr-2023	0.040734	14.062800	21.078000	3.958550	51.416121	1.973520	0.036634	0.384863	0.053150	0.003525	0.002695	0.142039	0.000599	0.013805	0.007327	0.002040	0.020399
5-Apr-2023	0.040734	14.003000	20.988300	3.941700	51.197412	1.965120	0.036478	0.383225	0.052924	0.003510	0.002683	0.141435	0.000597	0.013746	0.007296	0.002031	0.020313
6-Apr-2023	0.040734	13.958400	20.921400	3.929150	51.034365	1.958860	0.036362	0.382004	0.052756	0.003499	0.002675	0.140984	0.000595	0.013702	0.007273	0.002025	0.020248
7-Apr-2023	0.040733	13.926400	20.873600	3.920160	50.917440	1.954380	0.036279	0.381130	0.052635	0.003491	0.002668	0.140661	0.000593	0.013671	0.007256	0.002020	0.020202
8-Apr-2023	0.040733	13.897600	20.830300	3.912040	50.812088	1.950330	0.036204	0.380341	0.052526	0.003484	0.002663	0.140370	0.000592	0.013643	0.007241	0.002016	0.020160
9-Apr-2023	0.040733	13.869800	20.788600	3.904210	50.710427	1.946430	0.036131	0.379580	0.052421	0.003477	0.002658	0.140089	0.000591	0.013615	0.007227	0.002012	0.020119

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Apr-2023	0.040733	13.845300	20.752000	3.897330	50.620919	1.943000	0.036068	0.378911	0.052328	0.003471	0.002653	0.139842	0.000590	0.013591	0.007214	0.002008	0.020084
11-Apr-2023	0.040732	13.828300	20.726500	3.892560	50.558827	1.940610	0.036024	0.378447	0.052264	0.003467	0.002650	0.139672	0.000589	0.013575	0.007205	0.002006	0.020059
12-Apr-2023	0.040732	13.818100	20.711100	3.889670	50.521457	1.939170	0.035997	0.378167	0.052226	0.003464	0.002648	0.139568	0.000589	0.013565	0.007200	0.002004	0.020044
13-Apr-2023	0.040732	13.808500	20.696800	3.886980	50.486408	1.937830	0.035972	0.377905	0.052189	0.003462	0.002646	0.139472	0.000588	0.013555	0.007195	0.002003	0.020030
14-Apr-2023	0.040732	13.799700	20.683500	3.884480	50.454140	1.936580	0.035949	0.377662	0.052156	0.003459	0.002644	0.139382	0.000588	0.013546	0.007190	0.002002	0.020018
15-Apr-2023	0.040732	13.791600	20.671500	3.882220	50.424607	1.935460	0.035928	0.377442	0.052126	0.003457	0.002643	0.139301	0.000588	0.013539	0.007186	0.002001	0.020006
16-Apr-2023	0.040732	13.782900	20.658500	3.879780	50.392835	1.934240	0.035905	0.377205	0.052093	0.003455	0.002641	0.139213	0.000587	0.013530	0.007181	0.001999	0.019993
17-Apr-2023	0.040732	13.773800	20.644800	3.877220	50.359571	1.932960	0.035882	0.376956	0.052058	0.003453	0.002639	0.139121	0.000587	0.013521	0.007177	0.001998	0.019980
18-Apr-2023	0.040732	13.765000	20.631600	3.874730	50.327343	1.931720	0.035859	0.376714	0.052025	0.003451	0.002638	0.139032	0.000586	0.013512	0.007172	0.001997	0.019967
19-Apr-2023	0.040732	13.756100	20.618300	3.872230	50.294825	1.930480	0.035835	0.376471	0.051991	0.003448	0.002636	0.138942	0.000586	0.013504	0.007168	0.001995	0.019954
20-Apr-2023	0.040732	13.747200	20.604900	3.869710	50.262224	1.929220	0.035812	0.376226	0.051958	0.003446	0.002634	0.138852	0.000586	0.013495	0.007163	0.001994	0.019942
21-Apr-2023	0.040732	13.739000	20.592600	3.867410	50.232277	1.928080	0.035791	0.376002	0.051927	0.003444	0.002633	0.138769	0.000585	0.013487	0.007159	0.001993	0.019930
22-Apr-2023	0.040732	13.731700	20.581700	3.865350	50.205566	1.927050	0.035772	0.375802	0.051899	0.003442	0.002631	0.138695	0.000585	0.013480	0.007155	0.001992	0.019919
23-Apr-2023	0.040732	13.724800	20.571400	3.863420	50.180389	1.926090	0.035754	0.375614	0.051873	0.003441	0.002630	0.138626	0.000585	0.013473	0.007151	0.001991	0.019909
24-Apr-2023	0.040732	13.718300	20.561600	3.861580	50.156582	1.925170	0.035737	0.375435	0.051848	0.003439	0.002629	0.138560	0.000584	0.013467	0.007148	0.001990	0.019900
25-Apr-2023	0.040731	13.712200	20.552500	3.859870	50.134308	1.924320	0.035721	0.375269	0.051825	0.003437	0.002627	0.138499	0.000584	0.013461	0.007145	0.001989	0.019891
26-Apr-2023	0.040731	13.706500	20.543900	3.858260	50.113445	1.923520	0.035706	0.375112	0.051804	0.003436	0.002626	0.138441	0.000584	0.013455	0.007142	0.001988	0.019883
27-Apr-2023	0.040731	13.701000	20.535600	3.856700	50.093288	1.922740	0.035692	0.374961	0.051783	0.003435	0.002625	0.138385	0.000584	0.013450	0.007139	0.001987	0.019874
28-Apr-2023	0.040731	13.695700	20.527700	3.855200	50.073877	1.921990	0.035678	0.374815	0.051763	0.003433	0.002624	0.138331	0.000583	0.013444	0.007136	0.001987	0.019867
29-Apr-2023	0.040731	13.690400	20.519800	3.853730	50.054589	1.921260	0.035664	0.374672	0.051743	0.003432	0.002623	0.138278	0.000583	0.013439	0.007133	0.001986	0.019859
30-Apr-2023	0.040753	13.685400	20.512200	3.852300	50.036215	1.920550	0.035651	0.374533	0.051724	0.003431	0.002622	0.138227	0.000583	0.013434	0.007131	0.001985	0.019852
1-May-2023	0.040979	13.680400	20.504800	3.850900	50.017965	1.919850	0.035638	0.374397	0.051705	0.003429	0.002621	0.138177	0.000583	0.013429	0.007128	0.001984	0.019845
2-May-2023	0.042561	13.675600	20.497500	3.849540	50.000379	1.919170	0.035625	0.374265	0.051687	0.003428	0.002620	0.138128	0.000583	0.013425	0.007126	0.001984	0.019838
3-May-2023	0.048178	13.670600	20.490100	3.848140	49.982129	1.918470	0.035612	0.374129	0.051668	0.003427	0.002619	0.138077	0.000582	0.013420	0.007123	0.001983	0.019830
4-May-2023	0.054634	13.663900	20.480000	3.846250	49.957616	1.917530	0.035595	0.373945	0.051643	0.003425	0.002618	0.138010	0.000582	0.013413	0.007119	0.001982	0.019821
5-May-2023	0.060447	13.650100	20.459300	3.842360	49.907138	1.915590	0.035559	0.373567	0.051590	0.003422	0.002615	0.137870	0.000581	0.013400	0.007112	0.001980	0.019801
6-May-2023	0.066051	13.627000	20.424800	3.835880	49.822773	1.912360	0.035499	0.372937	0.051503	0.003416	0.002611	0.137637	0.000581	0.013377	0.007100	0.001977	0.019767
7-May-2023	0.070874	13.586700	20.364400	3.824540	49.675446	1.906710	0.035394	0.371834	0.051351	0.003406	0.002603	0.137230	0.000579	0.013337	0.007079	0.001971	0.019709
8-May-2023	0.075364	13.535200	20.287100	3.810020	49.487057	1.899470	0.035260	0.370422	0.051156	0.003393	0.002593	0.136709	0.000577	0.013287	0.007052	0.001963	0.019634
9-May-2023	0.079329	13.484000	20.210500	3.795630	49.299952	1.892300	0.035127	0.369023	0.050963	0.003380	0.002584	0.136193	0.000574	0.013237	0.007026	0.001956	0.019560
10-May-2023	0.083285	13.408300	20.097000	3.774320	49.023175	1.881670	0.034929	0.366951	0.050677	0.003361	0.002569	0.135428	0.000571	0.013162	0.006986	0.001945	0.019450
11-May-2023	0.087346	13.333400	19.984700	3.753210	48.749219	1.871150	0.034734	0.364899	0.050393	0.003342	0.002555	0.134671	0.000568	0.013089	0.006947	0.001934	0.019341
12-May-2023	0.092009	13.267100	19.885400	3.734560	48.506867	1.861850	0.034561	0.363085	0.050143	0.003326	0.002542	0.134001	0.000565	0.013024	0.006913	0.001925	0.019245
13-May-2023	0.096955	13.170900	19.741200	3.707490	48.155181	1.848360	0.034311	0.360454	0.049779	0.003302	0.002524	0.133030	0.000561	0.012929	0.006863	0.001911	0.019106
14-May-2023	0.100130	13.072300	19.593400	3.679720	47.794620	1.834510	0.034054	0.357754	0.049407	0.003277	0.002505	0.132034	0.000557	0.012832	0.006811	0.001896	0.018963
15-May-2023	0.111158	12.981100	19.456600	3.654040	47.461143	1.821710	0.033816	0.355257	0.049062	0.003254	0.002487	0.131112	0.000553	0.012743	0.006764	0.001883	0.018830
16-May-2023	0.125263	12.897000	19.330600	3.630370	47.153673	1.809910	0.033597	0.352955	0.048744	0.003233	0.002471	0.130263	0.000549	0.012660	0.006720	0.001871	0.018708
17-May-2023	0.139468	12.770800	19.141500	3.594860	46.692321	1.792200	0.033268	0.349502	0.048267	0.003201	0.002447	0.128989	0.000544	0.012536	0.006654	0.001853	0.018525
18-May-2023	0.140960	12.682600	19.009200	3.570030	46.369836	1.779820	0.033039	0.347088	0.047934	0.003179	0.002430	0.128098	0.000540	0.012450	0.006608	0.001840	0.018397
19-May-2023	0.143668	12.574500	18.847200	3.539600	45.974599	1.764650	0.032757	0.344130	0.047525	0.003152	0.002409	0.127006	0.000536	0.012344	0.006552	0.001824	0.018240
20-May-2023	0.153396	12.307200	18.446500	3.464370	44.997354	1.727120	0.032060	0.336812	0.046516	0.003085	0.002358	0.124308	0.000524	0.012081	0.006413	0.001785	0.017853
21-May-2023	0.152168	11.908500	17.848800	3.352190	43.539843	1.671140	0.031021	0.325897	0.045012	0.002985	0.002282	0.120285	0.000507	0.011690	0.006205	0.001727	0.017274
22-May-2023	0.151565	11.669100	17.489800	3.284810	42.664590	1.637510	0.030397	0.319340	0.044109	0.002925	0.002236	0.117869	0.000497	0.011455	0.006080	0.001693	0.016927
23-May-2023	0.155001	11.464100	17.182500	3.227100	41.915056	1.608740	0.029863	0.313729	0.043334	0.002874	0.002197	0.115798	0.000488	0.011254	0.005973	0.001663	0.016629
24-May-2023	0.160329	11.189100	16.770300	3.149730	40.909771	1.570120	0.029146	0.306199	0.042297	0.002805	0.002144	0.113023	0.000477	0.010984	0.005830	0.001623	0.016230
25-May-2023	0.167420	10.829400	16.231000	3.048490	39.594694	1.519620	0.028209	0.296351	0.040938	0.002715	0.002075	0.109392	0.000461	0.010631	0.005642	0.001571	0.015708
26-May-2023	0.171556	10.648900	15.960500	2.997720	38.934914	1.494280	0.027739	0.291412	0.040257	0.002669	0.002041	0.107571	0.000454	0.010454	0.005548	0.001545	0.015447
27-May-2023	0.176592	10.357900	15.524200	2.915810	37.870982	1.453420	0.026980	0.283443	0.039158	0.002596	0.001985	0.104633	0.000441	0.010169	0.005397	0.001502	0.015024
28-May-2023	0.181722	10.257500	15.373600	2.887550	37.503908	1.439320	0.026719	0.280694	0.038779	0.002571	0.001966	0.103620	0.000437	0.010070	0.005344	0.001488	0.014879
29-May-2023	0.192802	10.140600	15.198500	2.854690	37.076692	1.422910	0.026414	0.277495	0.038338	0.002542	0.001943	0.102442	0.000432	0.009956	0.005284	0.001471	0.014709
30-May-2023	0.207980	10.133900	15.188300	2.852840	37.052343	1.421950	0.026397	0.277311	0.038314	0.002540	0.001942	0.102378	0.000432	0.009949	0.005280	0.001470	0.014699
31-May-2023	0.221562	10.052200	15.065700	2.829890	36.753830	1.410470	0.026184	0.275082	0.038006	0.002520	0.001927	0.101559	0.000428	0.009869	0.005238	0.001458	0.014581

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Jun-2023	0.280233	9.936470	14.891800	2.797400	36.331059	1.394150	0.025883	0.271912	0.037576	0.002491	0.001905	0.100398	0.000423	0.009756	0.005177	0.001441	0.014413
2-Jun-2023	0.363620	9.773180	14.629700	2.755940	35.752591	1.369440	0.025517	0.268301	0.037254	0.002445	0.001883	0.099179	0.000415	0.009622	0.005090	0.001419	0.014188
3-Jun-2023	0.404973	9.702030	14.519300	2.736890	35.496482	1.359070	0.025344	0.266541	0.044435	0.002426	0.001970	0.100323	0.000412	0.009557	0.005053	0.001409	0.014087
4-Jun-2023	0.495740	9.593510	14.325300	2.723270	35.169420	1.340740	0.025329	0.267662	0.039226	0.002392	0.001897	0.099490	0.000406	0.009564	0.004992	0.001396	0.013961
5-Jun-2023	0.519992	9.374100	13.950000	2.666480	34.387692	1.305240	0.024791	0.262228	0.037760	0.002324	0.001866	0.097713	0.000395	0.009361	0.004873	0.001367	0.013673
6-Jun-2023	0.592316	9.255830	13.757700	2.635390	33.964344	1.287050	0.024511	0.259025	0.037423	0.002290	0.001839	0.096342	0.000389	0.009257	0.004810	0.001351	0.013507
7-Jun-2023	0.654053	9.093030	13.496700	2.593960	33.387223	1.262370	0.024141	0.255340	0.037407	0.002245	0.001821	0.095171	0.000381	0.009122	0.004724	0.001328	0.013283
8-Jun-2023	0.678289	8.905790	13.186200	2.549000	32.734540	1.232940	0.023754	0.251655	0.037280	0.002190	0.001797	0.093955	0.000371	0.008983	0.004623	0.001303	0.013033
9-Jun-2023	0.742074	8.776390	12.976600	2.516640	32.278169	1.212940	0.023460	0.248747	0.037217	0.002153	0.001789	0.093070	0.000365	0.008879	0.004554	0.001286	0.012856
10-Jun-2023	0.862259	8.620650	12.718300	2.479250	31.735315	1.188290	0.023130	0.246146	0.037066	0.002107	0.001782	0.092654	0.000357	0.008762	0.004470	0.001265	0.012647
11-Jun-2023	0.995319	8.512000	12.538400	2.453080	31.356247	1.171060	0.022895	0.243639	0.036883	0.002075	0.001769	0.091865	0.000352	0.008681	0.004411	0.001250	0.012501
12-Jun-2023	1.151575	8.394950	12.342900	2.425330	30.949699	1.152310	0.022648	0.241169	0.036714	0.002041	0.001755	0.091090	0.000346	0.008595	0.004348	0.001234	0.012344
13-Jun-2023	1.363523	8.239090	12.085200	2.388580	30.409180	1.127420	0.022438	0.239820	0.036438	0.001995	0.001746	0.090658	0.000338	0.008517	0.004264	0.001213	0.012132
14-Jun-2023	1.479620	8.171630	11.978000	2.369760	30.163232	1.116740	0.022113	0.235105	0.036080	0.001977	0.001716	0.089203	0.000335	0.008418	0.004228	0.001203	0.012035
15-Jun-2023	1.655167	8.066000	11.802300	2.344240	29.794382	1.099490	0.021866	0.232070	0.035773	0.001946	0.001704	0.088515	0.000329	0.008338	0.004171	0.001189	0.011889
16-Jun-2023	1.775832	7.959240	11.628600	2.317430	29.417399	1.082090	0.021599	0.229237	0.035496	0.001917	0.001692	0.087937	0.000324	0.008251	0.004114	0.001174	0.011737
17-Jun-2023	1.883495	7.786940	11.339200	2.276340	28.817957	1.054470	0.021227	0.223585	0.035313	0.001867	0.001672	0.086823	0.000315	0.008126	0.004021	0.001150	0.011505
18-Jun-2023	2.146650	7.655290	11.120400	2.243970	28.355928	1.033690	0.020947	0.220991	0.035266	0.001831	0.001660	0.086078	0.000309	0.008026	0.003950	0.001132	0.011322
19-Jun-2023	2.203231	7.550990	10.947600	2.218350	27.989987	1.017280	0.020724	0.218044	0.035133	0.001802	0.001647	0.085473	0.000304	0.007947	0.003894	0.001118	0.011177
20-Jun-2023	2.227224	7.388100	10.668900	2.181600	27.431915	0.991068	0.020435	0.214548	0.035040	0.001755	0.001633	0.084842	0.000295	0.007839	0.003806	0.001097	0.010968
21-Jun-2023	2.243495	7.246540	10.429500	2.148230	26.941022	0.969319	0.020194	0.211419	0.034902	0.001716	0.001624	0.084233	0.000288	0.007739	0.003729	0.001078	0.010778
22-Jun-2023	2.304292	7.144540	10.253400	2.125470	26.592602	0.952898	0.020044	0.210053	0.034842	0.001685	0.001613	0.083982	0.000282	0.007674	0.003674	0.001065	0.010646
23-Jun-2023	2.348291	7.052570	10.097400	2.103510	26.272521	0.937772	0.019879	0.207933	0.034895	0.001658	0.001604	0.083543	0.000277	0.007609	0.003625	0.001052	0.010520
24-Jun-2023	2.456559	6.952570	9.926490	2.080630	25.928602	0.922079	0.019679	0.206194	0.035026	0.001630	0.001599	0.083033	0.000272	0.007542	0.003570	0.001039	0.010388
25-Jun-2023	2.550503	6.881480	9.806100	2.063270	25.679601	0.910633	0.019541	0.204919	0.034969	0.001609	0.001591	0.082763	0.000268	0.007491	0.003532	0.001029	0.010287
26-Jun-2023	2.649668	6.765100	9.606260	2.037490	25.282839	0.892025	0.019369	0.202922	0.035000	0.001576	0.001582	0.082354	0.000262	0.007417	0.003470	0.001014	0.010136
27-Jun-2023	2.764327	6.663220	9.431200	2.013350	24.929036	0.875209	0.019203	0.201119	0.035087	0.001545	0.001577	0.081927	0.000257	0.007347	0.003414	0.001000	0.009996
28-Jun-2023	2.805949	6.592950	9.312260	1.996620	24.684677	0.863844	0.019100	0.199467	0.034993	0.001526	0.001570	0.081754	0.000253	0.007297	0.003376	0.000990	0.009898
29-Jun-2023	2.842954	6.476710	9.113690	1.969950	24.284599	0.845293	0.018934	0.197381	0.034912	0.001494	0.001559	0.081346	0.000247	0.007219	0.003314	0.000974	0.009742
30-Jun-2023	2.954687	6.354610	8.902550	1.943600	23.871206	0.825717	0.018772	0.195315	0.034947	0.001459	0.001553	0.080964	0.000240	0.007145	0.003248	0.000959	0.009588
1-Jul-2023	3.108235	6.376090	8.975550	1.926790	23.855618	0.835949	0.018842	0.195327	0.034743	0.001473	0.001532	0.080653	0.000244	0.007183	0.003276	0.000966	0.009656
2-Jul-2023	4.920272	4.992130	6.714750	1.567490	18.920272	0.626023	0.016000	0.168389	0.032315	0.001117	0.001358	0.074924	0.000177	0.006143	0.002554	0.000780	0.007802
3-Jul-2023	6.057571	5.096750	6.902810	1.583350	19.246820	0.643818	0.015801	0.167870	0.031369	0.001170	0.001356	0.075492	0.000184	0.006179	0.002616	0.000788	0.007880
4-Jul-2023	6.339409	5.284090	7.223410	1.625250	19.887152	0.674154	0.016086	0.171972	0.031597	0.001221	0.001369	0.073914	0.000194	0.006315	0.002719	0.000814	0.008142
5-Jul-2023	7.266840	5.395600	7.418980	1.641450	20.232304	0.696883	0.016454	0.176370	0.031633	0.001274	0.001367	0.077540	0.000200	0.006407	0.002788	0.000829	0.008293
6-Jul-2023	7.900608	5.505600	7.614800	1.662010	20.591640	0.716218	0.016622	0.177187	0.031660	0.001310	0.001372	0.075739	0.000207	0.006482	0.002852	0.000845	0.008446
7-Jul-2023	8.941151	6.445210	9.322860	1.807910	23.538663	0.887747	0.018390	0.194844	0.032909	0.001606	0.001393	0.078728	0.000264	0.007185	0.003421	0.000985	0.009854
8-Jul-2023	8.838762	6.489080	9.404830	1.819670	23.696634	0.893632	0.018340	0.194173	0.032909	0.001608	0.001396	0.078204	0.000266	0.007207	0.003444	0.000992	0.009917
9-Jul-2023	9.415145	6.648480	9.696050	1.843920	24.194517	0.922883	0.018639	0.197223	0.033010	0.001659	0.001398	0.078784	0.000276	0.007313	0.003538	0.001015	0.010154
10-Jul-2023	9.635188	6.638720	9.672710	1.845450	24.176447	0.919933	0.018619	0.197005	0.032923	0.001657	0.001401	0.078863	0.000275	0.007303	0.003530	0.001013	0.010125
11-Jul-2023	10.939979	6.471930	9.369550	1.825010	23.675800	0.888131	0.018263	0.193445	0.032470	0.001604	0.001399	0.078336	0.000265	0.007154	0.003423	0.000986	0.009864
12-Jul-2023	11.383492	6.849960	10.052700	1.882490	24.856444	0.959020	0.019063	0.201658	0.033025	0.001728	0.001407	0.079858	0.000288	0.007449	0.003654	0.001043	0.010432
13-Jul-2023	11.298740	5.921810	8.360440	1.743470	21.966369	0.788802	0.017359	0.184695	0.031535	0.001445	0.001388	0.077165	0.000231	0.006738	0.003087	0.000902	0.009022
14-Jul-2023	11.815385	5.928330	8.374040	1.745160	21.989609	0.789698	0.017350	0.184573	0.031483	0.001446	0.001388	0.077130	0.000232	0.006736	0.003090	0.000903	0.009032
15-Jul-2023	12.094098	6.035080	8.571350	1.762090	22.325881	0.809017	0.017522	0.186279	0.031568	0.001478	0.001390	0.077375	0.000238	0.006808	0.003154	0.000919	0.009193
16-Jul-2023	13.197760	6.128900	8.745030	1.777320	22.622867	0.826444	0.017691	0.188010	0.031628	0.001507	0.001392	0.077658	0.000244	0.006869	0.003209	0.000934	0.009337
17-Jul-2023	13.966860	7.166150	10.639800	1.936000	25.866325	1.016520	0.019582	0.206958	0.033097	0.001825	0.001413	0.081494	0.000308	0.007640	0.003838	0.001091	0.010910
18-Jul-2023	14.092025	7.476010	11.199400	1.983120	26.834085	1.074830	0.020241	0.213756	0.033546	0.001928	0.001420	0.082089	0.000326	0.007883	0.004028	0.001138	0.011377
19-Jul-2023	14.552927	7.011720	10.348600	1.912410	25.383569	0.991173	0.019474	0.206316	0.032882	0.001793	0.001410	0.081068	0.000298	0.007540	0.003747	0.001067	0.010673
20-Jul-2023	15.077346	6.572950	9.551910	1.846250	24.015514	0.910357	0.018635	0.197881	0.032176	0.001656	0.001401	0.079594	0.000271	0.007200	0.003479	0.001001	0.010009
21-Jul-2023	15.408856	7.088980	10.494600	1.924990	25.628292	1.004870	0.019570	0.207246	0.032894	0.001813	0.001411	0.081088	0.000303	0.007584	0.003792	0.001079	0.010791
22-Jul-2023	15.593283	6.681780	9.751790	1.864730	24.363363	0.932120	0.018914	0.200906	0.032200	0.001695	0.001403	0.080207	0.000278	0.007268	0.003543	0.001017	0.010175

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Jul-2023	16.012100	6.494710	9.409600	1.836360	23.779421	0.897880	0.018576	0.197553	0.031884	0.001640	0.001399	0.079762	0.000267	0.007127	0.003429	0.000989	0.009888
24-Jul-2023	16.066737	7.130610	10.574900	1.933830	25.768645	1.013850	0.019687	0.208663	0.032726	0.001831	0.001411	0.081420	0.000306	0.007593	0.003814	0.001085	0.010854
25-Jul-2023	14.847394	6.447900	9.330110	1.829970	23.636223	0.888239	0.018412	0.195817	0.031699	0.001621	0.001397	0.079331	0.000264	0.007077	0.003399	0.000982	0.009819
26-Jul-2023	14.566648	6.504320	9.433840	1.838860	23.813713	0.898751	0.018518	0.196883	0.031742	0.001639	0.001398	0.079531	0.000268	0.007116	0.003432	0.000990	0.009904
27-Jul-2023	14.548348	6.897950	10.156500	1.899740	25.047310	0.970741	0.019210	0.203850	0.032233	0.001758	0.001406	0.080560	0.000292	0.007399	0.003670	0.001050	0.010503
28-Jul-2023	13.926992	6.686250	9.767760	1.867460	24.385767	0.932701	0.018868	0.200498	0.031926	0.001697	0.001401	0.080154	0.000279	0.007244	0.003542	0.001018	0.010181
29-Jul-2023	13.310058	6.923480	10.204000	1.904380	25.130166	0.976047	0.019279	0.204631	0.032201	0.001769	0.001406	0.080761	0.000294	0.007412	0.003685	0.001054	0.010542
30-Jul-2023	13.827027	7.155690	10.628200	1.939510	25.854660	1.018270	0.019685	0.208647	0.032527	0.001839	0.001410	0.081389	0.000308	0.007586	0.003826	0.001089	0.010893
31-Jul-2023	14.037554	7.236410	10.777400	1.952210	26.108517	1.032800	0.019811	0.209883	0.032583	0.001863	0.001412	0.081570	0.000313	0.007641	0.003874	0.001102	0.011015
1-Aug-2023	14.653673	6.978610	10.307700	1.913640	25.305959	0.985695	0.019343	0.205187	0.032140	0.001785	0.001406	0.080878	0.000297	0.007441	0.003716	0.001062	0.010624
2-Aug-2023	14.834071	7.015820	10.377300	1.920120	25.425557	0.992117	0.019382	0.205515	0.032112	0.001797	0.001407	0.081009	0.000300	0.007461	0.003738	0.001068	0.010679
3-Aug-2023	14.873373	6.871080	10.116600	1.899480	24.979145	0.964785	0.019062	0.202255	0.031813	0.001753	0.001403	0.080572	0.000291	0.007340	0.003648	0.001046	0.010463
4-Aug-2023	15.601515	7.071950	10.484500	1.930860	25.609941	1.001250	0.019405	0.205679	0.032049	0.001816	0.001407	0.081217	0.000303	0.007484	0.003769	0.001077	0.010768
5-Aug-2023	15.416304	6.954670	10.272300	1.914260	25.248734	0.979122	0.019151	0.203108	0.031764	0.001781	0.001405	0.080909	0.000296	0.007385	0.003696	0.001059	0.010588
6-Aug-2023	15.559131	6.945690	10.256100	1.913540	25.223346	0.977258	0.019123	0.202801	0.031700	0.001780	0.001405	0.080961	0.000296	0.007374	0.003690	0.001057	0.010574
7-Aug-2023	15.770379	7.257700	10.831900	1.962970	26.205987	1.032570	0.019601	0.207524	0.032070	0.001873	0.001410	0.081742	0.000315	0.007588	0.003876	0.001105	0.011051
8-Aug-2023	15.664708	8.148640	12.455100	2.097120	28.983094	1.196280	0.021235	0.223812	0.033388	0.002145	0.001429	0.084308	0.000369	0.008269	0.004420	0.001240	0.012399
9-Aug-2023	15.787196	7.286070	10.887300	1.968140	26.298117	1.036940	0.019568	0.207013	0.031994	0.001881	0.001411	0.081700	0.000317	0.007599	0.003892	0.001110	0.011097
10-Aug-2023	15.836912	7.522500	11.316600	2.003590	27.034466	1.080330	0.020012	0.211454	0.032315	0.001953	0.001416	0.082424	0.000331	0.007781	0.004036	0.001145	0.011450
11-Aug-2023	16.058479	7.209400	10.747700	1.957450	26.062651	1.022360	0.019398	0.205256	0.031766	0.001859	0.001409	0.081579	0.000312	0.007533	0.003844	0.001098	0.010977
12-Aug-2023	15.643125	7.271910	10.858100	1.966620	26.256500	1.033250	0.019503	0.206206	0.031886	0.001881	0.001411	0.081925	0.000316	0.007588	0.003883	0.001107	0.011068
13-Aug-2023	15.259958	7.920790	12.049500	2.067430	28.291889	1.149900	0.020547	0.216454	0.032690	0.002076	0.001423	0.083607	0.000356	0.008053	0.004274	0.001206	0.012057
14-Aug-2023	15.078273	7.392260	11.066300	1.983450	26.626320	1.053330	0.019688	0.207706	0.032181	0.001922	0.001415	0.082608	0.000323	0.007704	0.003959	0.001124	0.011239
15-Aug-2023	14.904883	7.508640	11.291100	2.004100	27.001958	1.074110	0.019811	0.209006	0.032109	0.001955	0.001416	0.082678	0.000331	0.007755	0.004025	0.001142	0.011424
16-Aug-2023	15.078756	7.536440	11.345600	2.010180	27.096412	1.078300	0.019798	0.208809	0.032029	0.001965	0.001416	0.082803	0.000333	0.007760	0.004040	0.001147	0.011468
17-Aug-2023	14.725392	7.492340	11.267300	2.004550	26.963110	1.069840	0.019689	0.207704	0.031864	0.001952	0.001415	0.082707	0.000330	0.007717	0.004011	0.001140	0.011400
18-Aug-2023	14.760867	8.138710	12.446900	2.102580	28.980783	1.188080	0.020857	0.219377	0.032796	0.002149	0.001428	0.084545	0.000369	0.008203	0.004404	0.001238	0.012379
19-Aug-2023	13.240390	7.481200	11.246100	2.003510	26.931011	1.066810	0.019622	0.206946	0.031780	0.001951	0.001414	0.082792	0.000329	0.007705	0.004004	0.001138	0.011381
20-Aug-2023	13.003812	7.523780	11.328800	2.011260	27.069247	1.073590	0.019626	0.206887	0.031723	0.001962	0.001415	0.082765	0.000332	0.007722	0.004028	0.001145	0.011447
21-Aug-2023	12.715419	7.655700	11.570200	2.032240	27.485047	1.096930	0.019823	0.208768	0.031858	0.002004	0.001417	0.083545	0.000340	0.007815	0.004107	0.001164	0.011645
22-Aug-2023	12.536371	8.420340	12.965100	2.148520	29.873194	1.236620	0.021201	0.222520	0.032966	0.002238	0.001433	0.085563	0.000387	0.008390	0.004571	0.001280	0.012802
23-Aug-2023	12.076815	7.640580	11.544100	2.031460	27.444081	1.093110	0.019734	0.207811	0.031732	0.002003	0.001417	0.083326	0.000340	0.007792	0.004096	0.001162	0.011623
24-Aug-2023	12.006621	8.144700	12.466500	2.109070	29.022466	1.184450	0.020594	0.216331	0.032400	0.002156	0.001427	0.084761	0.000370	0.008162	0.004401	0.001239	0.012388
25-Aug-2023	11.362119	7.727210	11.710000	2.046870	27.723854	1.107280	0.019771	0.208071	0.031642	0.002027	0.001418	0.083391	0.000345	0.007832	0.004145	0.001176	0.011757
26-Aug-2023	10.964740	8.113530	12.411000	2.105250	28.928904	1.178070	0.020494	0.215319	0.032220	0.002148	0.001426	0.084733	0.000369	0.008130	0.004380	0.001234	0.012338
27-Aug-2023	10.758538	7.869540	11.972400	2.070370	28.176025	1.131610	0.019935	0.209661	0.031751	0.002072	0.001421	0.083875	0.000354	0.007925	0.004229	0.001197	0.011974
28-Aug-2023	9.498451	7.734980	11.720800	2.049170	27.752727	1.107090	0.019722	0.207424	0.031557	0.002035	0.001418	0.083740	0.000346	0.007836	0.004149	0.001176	0.011763
29-Aug-2023	9.185091	7.767510	11.782300	2.055120	27.858457	1.112320	0.019734	0.207475	0.031528	0.002046	0.001419	0.083861	0.000348	0.007851	0.004167	0.001181	0.011812
30-Aug-2023	9.237694	7.857590	11.947100	2.070620	28.147215	1.127410	0.019824	0.208257	0.031554	0.002079	0.001420	0.084357	0.000353	0.007908	0.004220	0.001195	0.011946
31-Aug-2023	9.926429	8.123050	12.437400	2.112440	28.982284	1.174610	0.020214	0.212029	0.031837	0.002156	0.001425	0.084928	0.000370	0.008091	0.004379	0.001235	0.012354
1-Sep-2023	9.376610	7.869220	11.972700	2.072150	28.182556	1.129290	0.019812	0.208091	0.031507	0.002077	0.001420	0.084118	0.000354	0.007909	0.004226	0.001197	0.011966
2-Sep-2023	9.251958	8.089620	12.379000	2.105100	28.868583	1.169910	0.020198	0.211943	0.031797	0.002144	0.001423	0.084635	0.000368	0.008069	0.004361	0.001230	0.012302
3-Sep-2023	9.066919	8.258550	12.686700	2.131020	29.397140	1.200580	0.020494	0.214882	0.032021	0.002197	0.001426	0.085204	0.000378	0.008196	0.004463	0.001256	0.012556
4-Sep-2023	9.206402	8.148700	12.489600	2.114200	29.053580	1.180500	0.020268	0.212587	0.031788	0.002166	0.001423	0.084921	0.000372	0.008106	0.004396	0.001239	0.012389
5-Sep-2023	8.607109	8.048170	12.306400	2.098920	28.739633	1.162080	0.020084	0.210720	0.031625	0.002135	0.001421	0.084589	0.000366	0.008030	0.004335	0.001224	0.012236
6-Sep-2023	8.111943	8.121420	12.443100	2.109980	28.968083	1.175510	0.020196	0.211804	0.031674	0.002158	0.001421	0.084783	0.000370	0.008078	0.004379	0.001235	0.012347
7-Sep-2023	8.023879	8.132910	12.465600	2.111730	29.003980	1.177560	0.020203	0.211863	0.031656	0.002162	0.001421	0.084804	0.000371	0.008084	0.004386	0.001236	0.012364
8-Sep-2023	7.621983	8.196690	12.582200	2.121590	29.203843	1.189140	0.020306	0.212881	0.031706	0.002185	0.001421	0.085121	0.000375	0.008129	0.004425	0.001246	0.012459
9-Sep-2023	7.378039	8.314900	12.799300	2.139720	29.573672	1.210680	0.020498	0.214760	0.031807	0.002227	0.001422	0.085635	0.000382	0.008213	0.004497	0.001264	0.012635
10-Sep-2023	7.209507	8.238610	12.661600	2.127920	29.334584	1.196750	0.020356	0.213343	0.031696	0.002200	0.001421	0.085255	0.000378	0.008154	0.004450	0.001252	0.012521
11-Sep-2023	6.583817	8.471040	13.092700	2.162580	30.057691	1.239540	0.020746	0.217219	0.031964	0.002269	0.001423	0.085699	0.000392	0.008318	0.004591	0.001288	0.012877
12-Sep-2023	6.142455	8.536410	13.211800	2.172650	30.262388	1.251430	0.020862	0.218371	0.032052	0.002290	0.001425	0.085952	0.000396	0.008367	0.004631	0.001297	0.012975

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Sep-2023	5.897065	8.817060	13.726700	2.215200	31.138392	1.302760	0.021350	0.223209	0.032414	0.002377	0.001430	0.086790	0.000414	0.008574	0.004801	0.001340	0.013400
14-Sep-2023	5.086228	8.454070	13.063600	2.160320	30.006011	1.236180	0.020686	0.216574	0.031857	0.002266	0.001422	0.085698	0.000391	0.008299	0.004580	0.001285	0.012848
15-Sep-2023	4.573347	8.472440	13.099500	2.163060	30.063164	1.239510	0.020702	0.216699	0.031840	0.002272	0.001422	0.085706	0.000393	0.008308	0.004591	0.001288	0.012876
16-Sep-2023	3.756789	8.510430	13.170700	2.168860	30.181909	1.246490	0.020759	0.217266	0.031857	0.002284	0.001422	0.085791	0.000395	0.008332	0.004614	0.001293	0.012934
17-Sep-2023	3.605402	8.724050	13.562700	2.201250	30.848700	1.285560	0.021130	0.220955	0.032131	0.002349	0.001425	0.086366	0.000408	0.008489	0.004744	0.001326	0.013257
18-Sep-2023	3.275997	8.678490	13.480900	2.194220	30.705987	1.277340	0.021042	0.220076	0.032042	0.002336	0.001424	0.086239	0.000406	0.008452	0.004716	0.001319	0.013189
19-Sep-2023	2.881696	8.654690	13.440100	2.190630	30.631775	1.272890	0.020976	0.219382	0.031948	0.002329	0.001423	0.086122	0.000404	0.008428	0.004701	0.001315	0.013152
20-Sep-2023	2.639768	9.316680	14.646400	2.291390	32.699694	1.393730	0.022162	0.231135	0.032876	0.002537	0.001436	0.088295	0.000445	0.008927	0.005104	0.001415	0.014150
21-Sep-2023	2.814663	9.859420	15.639500	2.373640	34.393621	1.493020	0.023138	0.240934	0.033675	0.002697	0.001447	0.089614	0.000478	0.009332	0.005434	0.001498	0.014976
22-Sep-2023	2.928535	8.889040	13.874200	2.225890	31.362148	1.315890	0.021362	0.223195	0.032190	0.002401	0.001425	0.086687	0.000419	0.008592	0.004843	0.001351	0.013508
23-Sep-2023	2.738708	9.100220	14.262400	2.257570	32.019923	1.354620	0.021728	0.226826	0.032460	0.002466	0.001428	0.087237	0.000432	0.008747	0.004972	0.001383	0.013828
24-Sep-2023	2.281150	8.848850	13.803700	2.219610	31.235932	1.308570	0.021265	0.222168	0.032053	0.002392	0.001423	0.086592	0.000417	0.008555	0.004819	0.001345	0.013445
25-Sep-2023	1.848338	8.878490	13.860200	2.224080	31.328351	1.314020	0.021305	0.222553	0.032056	0.002401	0.001423	0.086624	0.000419	0.008573	0.004837	0.001349	0.013490
26-Sep-2023	1.837595	8.996340	14.078000	2.241890	31.695964	1.335640	0.021502	0.224511	0.032186	0.002436	0.001424	0.086899	0.000426	0.008656	0.004908	0.001367	0.013669
27-Sep-2023	1.696727	9.878960	15.689200	2.375940	34.451884	1.496920	0.023091	0.240359	0.033469	0.002705	0.001442	0.089407	0.000480	0.009319	0.005444	0.001501	0.015007
28-Sep-2023	1.754763	9.731180	15.419700	2.353510	33.990511	1.469880	0.022821	0.237645	0.033246	0.002660	0.001439	0.088995	0.000471	0.009208	0.005355	0.001478	0.014782
29-Sep-2023	1.692456	9.581290	15.156600	2.329950	33.519215	1.442930	0.022502	0.234430	0.032903	0.002614	0.001432	0.088308	0.000462	0.009077	0.005263	0.001456	0.014559
30-Sep-2023	1.434545	9.250920	14.551300	2.280030	32.488711	1.382270	0.021906	0.228454	0.032418	0.002515	0.001426	0.087456	0.000442	0.008831	0.005062	0.001406	0.014055
1-Oct-2023	1.343643	9.020440	14.131400	2.244590	31.767260	1.340280	0.021490	0.224345	0.032112	0.002444	0.001421	0.086754	0.000428	0.008659	0.004923	0.001371	0.013708
2-Oct-2023	1.281819	8.881760	13.878300	2.223550	31.334334	1.314870	0.021236	0.221780	0.031870	0.002402	0.001418	0.086371	0.000419	0.008554	0.004838	0.001350	0.013496
3-Oct-2023	1.288960	8.829300	13.782200	2.215420	31.169862	1.305330	0.021143	0.220837	0.031793	0.002387	0.001417	0.086253	0.000416	0.008515	0.004807	0.001342	0.013416
4-Oct-2023	1.390356	8.805390	13.739900	2.211200	31.092780	1.301220	0.021102	0.220463	0.031769	0.002379	0.001416	0.086138	0.000415	0.008497	0.004792	0.001338	0.013381
5-Oct-2023	1.525159	8.785510	13.704000	2.207870	31.029427	1.297740	0.021068	0.220140	0.031742	0.002374	0.001415	0.086079	0.000414	0.008482	0.004781	0.001335	0.013352
6-Oct-2023	2.002678	8.766070	13.669800	2.204430	30.966720	1.294410	0.021034	0.219821	0.031716	0.002367	0.001414	0.085982	0.000412	0.008467	0.004769	0.001332	0.013323
7-Oct-2023	1.993891	8.724150	13.594600	2.197350	30.832890	1.287120	0.020963	0.219148	0.031658	0.002356	0.001413	0.085902	0.000410	0.008436	0.004744	0.001326	0.013261
8-Oct-2023	1.140696	8.717720	13.583700	2.195970	30.811151	1.286090	0.020950	0.219017	0.031640	0.002354	0.001412	0.085965	0.000410	0.008431	0.004741	0.001325	0.013251
9-Oct-2023	0.331694	8.708350	13.567900	2.194030	30.779765	1.284570	0.020931	0.218833	0.031619	0.002351	0.001411	0.085761	0.000409	0.008423	0.004735	0.001324	0.013237
10-Oct-2023	1.059759	8.703190	13.558200	2.193440	30.764451	1.283600	0.020924	0.218787	0.031623	0.002349	0.001411	0.085734	0.000409	0.008419	0.004732	0.001323	0.013230
11-Oct-2023	0.746237	8.654540	13.471600	2.184920	30.607887	1.275210	0.020840	0.217999	0.031560	0.002334	0.001409	0.085535	0.000406	0.008383	0.004703	0.001316	0.013158
12-Oct-2023	0.739394	8.633670	13.434400	2.181150	30.540250	1.271650	0.020803	0.217629	0.031516	0.002330	0.001408	0.085498	0.000405	0.008367	0.004691	0.001313	0.013126
13-Oct-2023	0.802112	8.604920	13.383700	2.176100	30.447665	1.266710	0.020754	0.217189	0.031496	0.002320	0.001407	0.085325	0.000403	0.008345	0.004674	0.001308	0.013085
14-Oct-2023	0.740388	8.606680	13.387100	2.176310	30.452925	1.267030	0.020756	0.217202	0.031492	0.002320	0.001407	0.085334	0.000403	0.008346	0.004675	0.001309	0.013087
15-Oct-2023	0.706488	8.592840	13.362300	2.173940	30.408606	1.264640	0.020732	0.216978	0.031472	0.002318	0.001406	0.085375	0.000402	0.008336	0.004667	0.001307	0.013067
16-Oct-2023	0.536692	8.578570	13.335100	2.171860	30.364409	1.262040	0.020709	0.216759	0.031440	0.002314	0.001406	0.085345	0.000402	0.008326	0.004659	0.001304	0.013044
17-Oct-2023	0.532118	8.643030	13.435500	2.188200	30.592654	1.271520	0.020866	0.218411	0.031694	0.002331	0.001417	0.085969	0.000405	0.008389	0.004694	0.001314	0.013142
18-Oct-2023	0.550202	8.713410	13.542600	2.206840	30.845152	1.281610	0.021043	0.220282	0.031971	0.002349	0.001429	0.086711	0.000408	0.008460	0.004731	0.001325	0.013250
19-Oct-2023	0.558565	8.768930	13.628200	2.221120	31.042590	1.289700	0.021179	0.221709	0.032181	0.002364	0.001439	0.087283	0.000410	0.008514	0.004761	0.001333	0.013335
20-Oct-2023	0.565644	8.823310	13.712200	2.235150	31.236153	1.297650	0.021313	0.223113	0.032388	0.002379	0.001448	0.087850	0.000413	0.008567	0.004791	0.001342	0.013417
21-Oct-2023	0.570357	8.696730	13.505900	2.206500	30.802102	1.277910	0.021037	0.220321	0.032035	0.002342	0.001432	0.086798	0.000406	0.008454	0.004720	0.001323	0.013228
22-Oct-2023	0.573275	8.736330	13.568100	2.216290	30.941298	1.283800	0.021131	0.221299	0.032175	0.002353	0.001439	0.087175	0.000408	0.008492	0.004742	0.001329	0.013288
23-Oct-2023	0.575256	8.771730	13.623500	2.225100	31.065972	1.289060	0.021215	0.222174	0.032299	0.002363	0.001444	0.087518	0.000410	0.008526	0.004761	0.001334	0.013342
24-Oct-2023	0.576184	8.792200	13.655700	2.230150	31.137881	1.292120	0.021263	0.222674	0.032369	0.002368	0.001447	0.087712	0.000411	0.008545	0.004772	0.001337	0.013373
25-Oct-2023	0.576726	8.824490	13.706600	2.238090	31.251206	1.296950	0.021339	0.223460	0.032479	0.002377	0.001452	0.088016	0.000412	0.008576	0.004790	0.001342	0.013422
26-Oct-2023	0.577348	8.860620	13.762700	2.247270	31.379226	1.302250	0.021426	0.224376	0.032612	0.002387	0.001458	0.088377	0.000414	0.008611	0.004809	0.001348	0.013477
27-Oct-2023	0.575923	8.909570	13.840300	2.259140	31.550335	1.309620	0.021540	0.225550	0.032775	0.002400	0.001465	0.088830	0.000417	0.008657	0.004836	0.001355	0.013551
28-Oct-2023	0.573637	8.933060	13.876100	2.265370	31.634644	1.313010	0.021599	0.226176	0.032869	0.002407	0.001470	0.089082	0.000418	0.008681	0.004849	0.001359	0.013587
29-Oct-2023	0.572382	8.964610	13.927100	2.272490	31.742745	1.317900	0.021667	0.226854	0.032960	0.002417	0.001474	0.089389	0.000419	0.008709	0.004867	0.001363	0.013633
30-Oct-2023	0.568794	9.008430	13.995300	2.283470	31.897379	1.324390	0.021771	0.227933	0.033108	0.002430	0.001480	0.089855	0.000421	0.008751	0.004891	0.001370	0.013698
31-Oct-2023	0.566983	9.042530	14.047100	2.292680	32.020454	1.329220	0.021859	0.228889	0.033253	0.002437	0.001487	0.090165	0.000423	0.008786	0.004909	0.001375	0.013752
1-Nov-2023	0.565345	9.071870	14.093400	2.299820	32.123118	1.333630	0.021928	0.229595	0.033350	0.002445	0.001491	0.090450	0.000424	0.008814	0.004925	0.001380	0.013796
2-Nov-2023	0.563550	9.101360	14.139600	2.307110	32.226775	1.338010	0.021998	0.230321	0.033453	0.002453	0.001496	0.090738	0.000426	0.008842	0.004941	0.001384	0.013841
3-Nov-2023	0.561179	9.130060	14.184700	2.314220	32.327718	1.342290	0.022066	0.231028	0.033553	0.002462	0.001500	0.091014	0.000427	0.008869	0.004957	0.001388	0.013884

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4-Nov-2023	0.560097	9.161330	14.234100	2.321750	32.436808	1.347020	0.022136	0.231760	0.033657	0.002472	0.001505	0.091354	0.000428	0.008898	0.004974	0.001393	0.013930
5-Nov-2023	0.558879	9.194480	14.286200	2.330290	32.554751	1.351960	0.022219	0.232628	0.033782	0.002480	0.001511	0.091659	0.000430	0.008931	0.004992	0.001398	0.013982
6-Nov-2023	0.556114	9.232280	14.346000	2.339150	32.685623	1.357640	0.022303	0.233475	0.033903	0.002491	0.001516	0.092013	0.000432	0.008966	0.005013	0.001404	0.014038
7-Nov-2023	0.553831	9.271310	14.406100	2.349260	32.824714	1.363310	0.022399	0.234493	0.034036	0.002501	0.001522	0.092403	0.000434	0.009004	0.005034	0.001410	0.014098
8-Nov-2023	0.552447	9.292180	14.439000	2.354370	32.897869	1.366440	0.022448	0.234999	0.034105	0.002507	0.001525	0.092602	0.000435	0.009024	0.005045	0.001413	0.014129
9-Nov-2023	0.551945	9.311400	14.469200	2.359150	32.965546	1.369290	0.022494	0.235483	0.034186	0.002512	0.001529	0.092785	0.000436	0.009042	0.005056	0.001416	0.014158
10-Nov-2023	0.552581	9.336090	14.506900	2.365710	33.054211	1.372820	0.022556	0.236145	0.034281	0.002518	0.001533	0.093026	0.000437	0.009067	0.005069	0.001420	0.014197
11-Nov-2023	0.553279	9.364660	14.551500	2.372870	33.155035	1.377050	0.022625	0.236860	0.034385	0.002525	0.001538	0.093301	0.000438	0.009095	0.005084	0.001424	0.014240
12-Nov-2023	0.553850	9.396930	14.601700	2.381030	33.269216	1.381800	0.022703	0.237676	0.034503	0.002534	0.001543	0.093620	0.000440	0.009126	0.005102	0.001429	0.014289
13-Nov-2023	0.553490	9.429420	14.652100	2.389300	33.384399	1.386560	0.022782	0.238502	0.034624	0.002543	0.001549	0.094084	0.000441	0.009158	0.005120	0.001434	0.014339
14-Nov-2023	0.553312	9.468560	14.711400	2.400300	33.527430	1.392190	0.022885	0.239591	0.034776	0.002555	0.001556	0.094516	0.000443	0.009199	0.005141	0.001440	0.014398
15-Nov-2023	0.553930	9.500510	14.760200	2.408000	33.638917	1.396800	0.022959	0.240364	0.034891	0.002563	0.001561	0.094760	0.000444	0.009229	0.005158	0.001445	0.014446
16-Nov-2023	0.554453	9.528160	14.804100	2.414740	33.735715	1.400950	0.023024	0.241042	0.034993	0.002570	0.001565	0.094998	0.000446	0.009255	0.005173	0.001449	0.014489
17-Nov-2023	0.554230	9.563490	14.859100	2.423680	33.860749	1.406150	0.023109	0.241934	0.035123	0.002579	0.001571	0.095334	0.000447	0.009289	0.005192	0.001454	0.014542
18-Nov-2023	0.554247	9.599800	14.915700	2.432820	33.989053	1.411510	0.023196	0.242848	0.035256	0.002589	0.001577	0.095780	0.000449	0.009324	0.005212	0.001460	0.014598
19-Nov-2023	0.554461	9.638100	14.973100	2.443810	34.129945	1.416940	0.023299	0.243942	0.035412	0.002601	0.001585	0.096252	0.000451	0.009365	0.005232	0.001466	0.014655
20-Nov-2023	0.553764	9.687570	15.046300	2.456820	34.307047	1.423870	0.023423	0.245240	0.035601	0.002615	0.001593	0.096803	0.000453	0.009414	0.005259	0.001473	0.014729
21-Nov-2023	0.552209	9.717460	15.095500	2.463560	34.409438	1.428520	0.023488	0.245913	0.035698	0.002622	0.001597	0.097024	0.000454	0.009441	0.005275	0.001478	0.014776
22-Nov-2023	0.549879	9.753170	15.147000	2.473790	34.540733	1.433400	0.023584	0.246930	0.035843	0.002633	0.001605	0.097518	0.000456	0.009479	0.005294	0.001483	0.014828
23-Nov-2023	0.547564	9.785920	15.199500	2.482260	34.657389	1.438390	0.023664	0.247773	0.035963	0.002643	0.001610	0.097874	0.000458	0.009511	0.005312	0.001488	0.014878
24-Nov-2023	0.545935	9.830590	15.265200	2.494030	34.817399	1.444590	0.023776	0.248946	0.036133	0.002655	0.001618	0.098382	0.000459	0.009556	0.005336	0.001495	0.014945
25-Nov-2023	0.544763	9.869980	15.326300	2.504310	34.958089	1.450380	0.023874	0.249971	0.036282	0.002666	0.001625	0.098814	0.000461	0.009595	0.005357	0.001500	0.015005
26-Nov-2023	0.544520	9.902010	15.378700	2.511360	35.067099	1.455340	0.023942	0.250676	0.036384	0.002674	0.001629	0.098994	0.000463	0.009623	0.005375	0.001505	0.015054
27-Nov-2023	0.543983	9.933360	15.429800	2.518780	35.175936	1.460200	0.024014	0.251416	0.036490	0.002682	0.001633	0.099240	0.000464	0.009652	0.005392	0.001510	0.015103
28-Nov-2023	0.543611	9.969180	15.486400	2.527330	35.300587	1.465540	0.024096	0.252269	0.036613	0.002691	0.001638	0.099532	0.000466	0.009685	0.005412	0.001516	0.015157
29-Nov-2023	0.543339	9.990340	15.522700	2.532370	35.374179	1.468990	0.024144	0.252772	0.036687	0.002696	0.001642	0.099721	0.000467	0.009705	0.005424	0.001519	0.015190
30-Nov-2023	0.542698	10.025200	15.573900	2.541410	35.498451	1.473830	0.024230	0.253673	0.036817	0.002706	0.001647	0.100076	0.000469	0.009740	0.005443	0.001524	0.015243
1-Dec-2023	0.542502	10.057500	15.624500	2.549440	35.612171	1.478620	0.024307	0.254474	0.036932	0.002714	0.001652	0.100383	0.000470	0.009770	0.005460	0.001529	0.015292
2-Dec-2023	0.542378	10.094400	15.681400	2.558880	35.743185	1.484010	0.024397	0.255416	0.037068	0.002724	0.001659	0.100764	0.000472	0.009807	0.005480	0.001535	0.015348
3-Dec-2023	0.542288	10.132900	15.741300	2.568610	35.879387	1.489680	0.024490	0.256386	0.037209	0.002735	0.001665	0.101144	0.000474	0.009844	0.005501	0.001541	0.015406
4-Dec-2023	0.542218	10.170000	15.799500	2.577880	36.010200	1.495180	0.024578	0.257312	0.037343	0.002745	0.001671	0.101497	0.000476	0.009880	0.005521	0.001546	0.015463
5-Dec-2023	0.541788	10.197000	15.842800	2.584280	36.103974	1.499280	0.024640	0.257951	0.037436	0.002752	0.001675	0.101710	0.000477	0.009905	0.005536	0.001550	0.015504
6-Dec-2023	0.541463	10.226900	15.887900	2.592330	36.211784	1.503550	0.024716	0.258753	0.037552	0.002760	0.001680	0.102071	0.000478	0.009935	0.005552	0.001555	0.015549
7-Dec-2023	0.541065	10.259200	15.937900	2.600550	36.326287	1.508290	0.024794	0.259572	0.037670	0.002769	0.001686	0.102399	0.000480	0.009966	0.005570	0.001560	0.015598
8-Dec-2023	0.540719	10.292600	15.989600	2.609040	36.444649	1.513180	0.024875	0.260419	0.037793	0.002778	0.001691	0.102738	0.000481	0.009999	0.005588	0.001565	0.015649
9-Dec-2023	0.540511	10.335400	16.055700	2.619990	36.596613	1.519430	0.024979	0.261512	0.037951	0.002790	0.001698	0.103180	0.000483	0.010041	0.005611	0.001571	0.015714
10-Dec-2023	0.540449	10.369200	16.109700	2.628290	36.715191	1.524540	0.025058	0.262340	0.038071	0.002799	0.001704	0.103499	0.000485	0.010073	0.005630	0.001577	0.015766
11-Dec-2023	0.540241	10.404300	16.164200	2.637030	36.838827	1.529710	0.025142	0.263214	0.038198	0.002808	0.001709	0.103815	0.000487	0.010107	0.005649	0.001582	0.015819
12-Dec-2023	0.540171	10.439500	16.218300	2.646150	36.964277	1.534820	0.025229	0.264123	0.038330	0.002818	0.001715	0.104189	0.000488	0.010141	0.005668	0.001587	0.015872
13-Dec-2023	0.540094	10.481400	16.283400	2.656750	37.112552	1.540990	0.025330	0.265181	0.038483	0.002829	0.001722	0.104604	0.000490	0.010182	0.005690	0.001594	0.015936
14-Dec-2023	0.539901	10.515600	16.336500	2.665400	37.233570	1.546010	0.025413	0.266044	0.038608	0.002838	0.001728	0.104945	0.000492	0.010215	0.005709	0.001599	0.015988
15-Dec-2023	0.539789	10.560900	16.406600	2.676950	37.394247	1.552650	0.025523	0.267197	0.038776	0.002850	0.001735	0.105406	0.000494	0.010259	0.005734	0.001606	0.016057
16-Dec-2023	0.539727	10.603600	16.474000	2.687530	37.544438	1.559020	0.025624	0.268254	0.038929	0.002862	0.001742	0.105796	0.000496	0.010300	0.005757	0.001612	0.016122
17-Dec-2023	0.539530	10.629100	16.513400	2.693990	37.634714	1.562750	0.025685	0.268898	0.039023	0.002869	0.001746	0.106053	0.000497	0.010325	0.005771	0.001616	0.016161
18-Dec-2023	0.539391	10.662100	16.564700	2.702400	37.751747	1.567600	0.025765	0.269738	0.039144	0.002878	0.001751	0.106387	0.000499	0.010357	0.005789	0.001621	0.016211
19-Dec-2023	0.539299	10.701600	16.625900	2.712420	37.891641	1.573400	0.025861	0.270738	0.039290	0.002888	0.001758	0.106784	0.000500	0.010395	0.005810	0.001627	0.016271
20-Dec-2023	0.539092	10.742700	16.689800	2.722830	38.037136	1.579440	0.025960	0.271777	0.039440	0.002899	0.001765	0.107194	0.000502	0.010435	0.005832	0.001633	0.016334
21-Dec-2023	0.538959	10.788500	16.761000	2.734450	38.199350	1.586180	0.026071	0.272937	0.039608	0.002912	0.001772	0.107652	0.000505	0.010480	0.005857	0.001640	0.016403
22-Dec-2023	0.538891	10.831300	16.827400	2.745320	38.350984	1.592470	0.026175	0.274021	0.039766	0.002923	0.001779	0.108082	0.000507	0.010521	0.005880	0.001647	0.016468
23-Dec-2023	0.538755	10.865200	16.880000	2.753910	38.471006	1.597440	0.026257	0.274879	0.039890	0.002932	0.001785	0.108421	0.000508	0.010554	0.005899	0.001652	0.016520
24-Dec-2023	0.538668	10.903500	16.939500	2.763650	38.606750	1.603070	0.026349	0.275851	0.040031	0.002943	0.001791	0.108807	0.000510	0.010592	0.005920	0.001658	0.016578
25-Dec-2023	0.538620	10.948200	17.008900	2.775010	38.765147	1.609640	0.026458	0.276984	0.040196	0.002955	0.001799	0.109257	0.000512	0.010635	0.005944	0.001665	0.016646

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
26-Dec-2023	0.538439	10.991300	17.075800	2.785920	38.917695	1.615970	0.026562	0.278074	0.040354	0.002967	0.001806	0.109687	0.000514	0.010677	0.005967	0.001671	0.016711
27-Dec-2023	0.538267	11.029300	17.134800	2.795570	39.052319	1.621560	0.026654	0.279036	0.040493	0.002977	0.001812	0.110067	0.000516	0.010714	0.005988	0.001677	0.016769
28-Dec-2023	0.538213	11.070600	17.198900	2.806070	39.198684	1.627620	0.026754	0.280084	0.040645	0.002988	0.001819	0.110484	0.000518	0.010754	0.006010	0.001683	0.016832
29-Dec-2023	0.538038	11.119500	17.274100	2.818690	39.372757	1.634740	0.026874	0.281342	0.040827	0.003002	0.001827	0.111004	0.000520	0.010802	0.006037	0.001691	0.016906
30-Dec-2023	0.537831	11.168300	17.349900	2.831080	39.545633	1.641910	0.026992	0.282579	0.041007	0.003015	0.001835	0.111494	0.000522	0.010850	0.006063	0.001698	0.016980
31-Dec-2023	0.537662	11.205400	17.407600	2.840410	39.676692	1.647380	0.027081	0.283510	0.041142	0.003025	0.001841	0.111856	0.000524	0.010886	0.006083	0.001704	0.017037
1-Jan-2024	0.537586	11.261500	17.494800	2.854620	39.875291	1.655620	0.027216	0.284928	0.041347	0.003040	0.001850	0.112416	0.000527	0.010940	0.006114	0.001712	0.017122
2-Jan-2024	0.537306	11.322800	17.589700	2.870270	40.092803	1.664600	0.027365	0.286491	0.041574	0.003057	0.001860	0.113043	0.000529	0.011000	0.006147	0.001722	0.017215
3-Jan-2024	0.537082	11.352000	17.635300	2.877600	40.195901	1.668930	0.027435	0.287222	0.041680	0.003064	0.001865	0.113324	0.000531	0.011028	0.006163	0.001726	0.017259
4-Jan-2024	0.537086	11.405400	17.718400	2.891100	40.384834	1.676790	0.027564	0.288569	0.041875	0.003079	0.001874	0.113852	0.000533	0.011080	0.006192	0.001734	0.017341
5-Jan-2024	0.536832	11.483300	17.839100	2.910960	40.661133	1.688210	0.027753	0.290551	0.042163	0.003100	0.001887	0.114645	0.000537	0.011156	0.006234	0.001746	0.017459
6-Jan-2024	0.536594	11.516800	17.891300	2.919420	40.779621	1.693150	0.027834	0.291396	0.042285	0.003109	0.001892	0.114976	0.000539	0.011188	0.006253	0.001751	0.017510
7-Jan-2024	0.536562	11.560600	17.959400	2.930450	40.934411	1.699600	0.027939	0.292497	0.042445	0.003121	0.001899	0.115405	0.000541	0.011231	0.006276	0.001758	0.017577
8-Jan-2024	0.536362	11.631700	18.069600	2.948600	41.186690	1.710020	0.028112	0.294308	0.042708	0.003140	0.001911	0.116131	0.000544	0.011300	0.006315	0.001768	0.017685
9-Jan-2024	0.536096	11.659900	18.113400	2.955750	41.286549	1.714170	0.028180	0.295020	0.042811	0.003148	0.001916	0.116412	0.000545	0.011327	0.006330	0.001773	0.017728
10-Jan-2024	0.536030	11.694900	18.167900	2.964530	41.410100	1.719330	0.028264	0.295898	0.042938	0.003157	0.001921	0.116752	0.000547	0.011361	0.006349	0.001778	0.017781
11-Jan-2024	0.535951	11.747500	18.249600	2.977880	41.596417	1.727060	0.028391	0.297229	0.043131	0.003171	0.001930	0.117279	0.000549	0.011412	0.006378	0.001786	0.017861
12-Jan-2024	0.535772	11.812700	18.350600	2.994540	41.827828	1.736620	0.028550	0.298892	0.043373	0.003189	0.001941	0.117946	0.000552	0.011476	0.006413	0.001796	0.017960
13-Jan-2024	0.535627	11.836000	18.387000	3.000360	41.909974	1.740060	0.028606	0.299473	0.043457	0.003195	0.001945	0.118169	0.000553	0.011499	0.006426	0.001800	0.017995
14-Jan-2024	0.535603	11.883500	18.460800	3.012360	42.077998	1.747050	0.028720	0.300671	0.043631	0.003208	0.001952	0.118639	0.000556	0.011545	0.006452	0.001807	0.018067
15-Jan-2024	0.535444	11.944900	18.555700	3.028090	42.296090	1.756020	0.028870	0.302241	0.043858	0.003225	0.001963	0.119274	0.000559	0.011605	0.006485	0.001816	0.018161
16-Jan-2024	0.535188	11.958800	18.577300	3.031610	42.345294	1.758080	0.028903	0.302591	0.043909	0.003229	0.001965	0.119412	0.000559	0.011618	0.006492	0.001818	0.018182
17-Jan-2024	0.535119	11.988300	18.623400	3.039030	42.449511	1.762440	0.028974	0.303332	0.044017	0.003236	0.001970	0.119699	0.000561	0.011647	0.006508	0.001823	0.018227
18-Jan-2024	0.535037	12.043300	18.708700	3.052990	42.644333	1.770510	0.029107	0.304725	0.044218	0.003251	0.001979	0.120252	0.000563	0.011700	0.006538	0.001831	0.018310
19-Jan-2024	0.534927	12.097100	18.791800	3.066750	42.835335	1.778370	0.029238	0.306098	0.044418	0.003266	0.001988	0.120805	0.000566	0.011753	0.006567	0.001839	0.018392
20-Jan-2024	0.534877	12.165000	18.898200	3.083740	43.074846	1.788440	0.029401	0.307796	0.044665	0.003284	0.001999	0.121451	0.000569	0.011818	0.006604	0.001850	0.018495
21-Jan-2024	0.534815	12.244800	19.022000	3.103970	43.357414	1.800150	0.029593	0.309815	0.044958	0.003306	0.002012	0.122250	0.000573	0.011896	0.006648	0.001862	0.018617
22-Jan-2024	0.534651	12.326600	19.149000	3.124730	43.647158	1.812180	0.029791	0.311886	0.045258	0.003328	0.002025	0.123069	0.000576	0.011975	0.006692	0.001874	0.018741
23-Jan-2024	0.534471	12.422600	19.298000	3.149110	43.987267	1.826270	0.030024	0.314320	0.045611	0.003354	0.002041	0.124034	0.000581	0.012068	0.006744	0.001889	0.018887
24-Jan-2024	0.534375	12.500600	19.419200	3.168910	44.263570	1.837740	0.030212	0.316296	0.045898	0.003375	0.002054	0.124816	0.000585	0.012144	0.006787	0.001901	0.019006
25-Jan-2024	0.534271	12.552600	19.500000	3.182060	44.447565	1.845390	0.030338	0.317608	0.046088	0.003389	0.002063	0.125331	0.000587	0.012195	0.006815	0.001908	0.019085
26-Jan-2024	0.534222	12.618100	19.601800	3.198650	44.679436	1.855030	0.030496	0.319264	0.046329	0.003406	0.002073	0.125983	0.000590	0.012258	0.006850	0.001918	0.019184
27-Jan-2024	0.534111	12.675400	19.690900	3.213180	44.882349	1.863460	0.030635	0.320715	0.046539	0.003422	0.002083	0.126556	0.000593	0.012314	0.006881	0.001927	0.019271
28-Jan-2024	0.534024	12.720100	19.760300	3.224510	45.040622	1.870030	0.030743	0.321845	0.046703	0.003434	0.002090	0.127002	0.000595	0.012357	0.006906	0.001934	0.019339
29-Jan-2024	0.533959	12.780300	19.853800	3.239770	45.253782	1.878870	0.030888	0.323368	0.046924	0.003450	0.002100	0.127603	0.000598	0.012416	0.006938	0.001943	0.019431
30-Jan-2024	0.533912	12.842300	19.950100	3.255500	45.473372	1.887990	0.031038	0.324938	0.047152	0.003467	0.002110	0.128223	0.000601	0.012476	0.006972	0.001953	0.019525
31-Jan-2024	0.533856	12.904600	20.046800	3.271270	45.693876	1.897140	0.031188	0.326512	0.047380	0.003484	0.002120	0.128845	0.000603	0.012537	0.007006	0.001962	0.019620
1-Feb-2024	0.533781	12.969700	20.148000	3.287760	45.924337	1.906710	0.031346	0.328158	0.047619	0.003501	0.002131	0.129494	0.000606	0.012600	0.007041	0.001972	0.019719
2-Feb-2024	0.533723	13.028400	20.239300	3.302660	46.132269	1.915360	0.031488	0.329644	0.047834	0.003517	0.002141	0.130080	0.000609	0.012657	0.007073	0.001981	0.019808
3-Feb-2024	0.533678	13.084000	20.325700	3.316740	46.329083	1.923540	0.031622	0.331050	0.048038	0.003532	0.002150	0.130634	0.000612	0.012711	0.007103	0.001989	0.019893
4-Feb-2024	0.533641	13.140500	20.413500	3.331040	46.529051	1.931840	0.031758	0.332477	0.048245	0.003547	0.002159	0.131196	0.000614	0.012766	0.007134	0.001998	0.019978
5-Feb-2024	0.533615	13.196800	20.500900	3.345280	46.728273	1.940120	0.031894	0.333899	0.048451	0.003563	0.002168	0.131756	0.000617	0.012820	0.007165	0.002006	0.020064
6-Feb-2024	0.533586	13.040200	20.257700	3.305580	46.173758	1.917100	0.031516	0.329936	0.047876	0.003520	0.002143	0.130192	0.000610	0.012668	0.007080	0.001983	0.019826
7-Feb-2024	0.533569	13.075400	20.312400	3.314490	46.298344	1.922280	0.031600	0.330825	0.048005	0.003530	0.002148	0.130542	0.000611	0.012702	0.007099	0.001988	0.019879
8-Feb-2024	0.533582	13.120000	20.381800	3.325810	46.456326	1.928850	0.031708	0.331955	0.048169	0.003542	0.002156	0.130987	0.000613	0.012746	0.007123	0.001995	0.019947
9-Feb-2024	0.533602	13.171600	20.462000	3.338870	46.638952	1.936440	0.031833	0.333258	0.048358	0.003556	0.002164	0.131501	0.000616	0.012796	0.007151	0.002003	0.020026
10-Feb-2024	0.533577	13.217400	20.533100	3.350450	46.801001	1.943160	0.031943	0.334414	0.048526	0.003568	0.002172	0.131957	0.000618	0.012840	0.007176	0.002010	0.020095
11-Feb-2024	0.533544	13.271300	20.616800	3.364110	46.991841	1.951090	0.032074	0.335777	0.048724	0.003583	0.002180	0.132494	0.000621	0.012893	0.007205	0.002018	0.020177
12-Feb-2024	0.533510	13.305500	20.670200	3.372750	47.112818	1.956140	0.032156	0.336640	0.048848	0.003592	0.002186	0.132832	0.000622	0.012926	0.007224	0.002023	0.020229
13-Feb-2024	0.533483	13.364300	20.761500	3.387640	47.320959	1.964780	0.032298	0.338126	0.049064	0.003608	0.002196	0.133418	0.000625	0.012983	0.007256	0.002032	0.020319
14-Feb-2024	0.533455	13.426700	20.858400	3.403450	47.541877	1.973950	0.032449	0.339704	0.049293	0.003625	0.002206	0.134041	0.000628	0.013043	0.007289	0.002041	0.020414
15-Feb-2024	0.533445	13.493300	20.962000	3.420350	47.777771	1.983750	0.032610	0.341391	0.049538	0.003643	0.002217	0.134706	0.000631	0.013108	0.007326	0.002051	0.020515

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16-Feb-2024	0.533437	13.554200	21.056600	3.435790	47.993421	1.992710	0.032757	0.342931	0.049761	0.003659	0.002227	0.135314	0.000634	0.013167	0.007359	0.002061	0.020607
17-Feb-2024	0.533422	13.613000	21.148000	3.450690	48.201602	2.001360	0.032899	0.344419	0.049977	0.003675	0.002236	0.135900	0.000637	0.013224	0.007391	0.002070	0.020697
18-Feb-2024	0.533391	13.665400	21.229400	3.463950	48.387050	2.009060	0.033026	0.345742	0.050169	0.003689	0.002245	0.136421	0.000639	0.013275	0.007419	0.002078	0.020777
19-Feb-2024	0.533352	13.715800	21.307800	3.476700	48.565403	2.016480	0.033147	0.347015	0.050354	0.003703	0.002253	0.136922	0.000641	0.013324	0.007446	0.002085	0.020853
20-Feb-2024	0.533318	13.775400	21.400300	3.491780	48.776324	2.025240	0.033291	0.348520	0.050572	0.003719	0.002263	0.137515	0.000644	0.013382	0.007479	0.002094	0.020944
21-Feb-2024	0.533298	13.836000	21.494400	3.507140	48.990895	2.034150	0.033437	0.350053	0.050794	0.003735	0.002273	0.138120	0.000647	0.013441	0.007512	0.002104	0.021036
22-Feb-2024	0.533288	13.900400	21.594500	3.523460	49.218907	2.043610	0.033593	0.351682	0.051031	0.003752	0.002284	0.138763	0.000650	0.013503	0.007547	0.002113	0.021134
23-Feb-2024	0.533264	13.952900	21.676100	3.536760	49.404769	2.051340	0.033720	0.353010	0.051223	0.003767	0.002292	0.139285	0.000652	0.013554	0.007575	0.002121	0.021214
24-Feb-2024	0.533233	14.010400	21.765500	3.551330	49.608346	2.059800	0.033859	0.354463	0.051434	0.003782	0.002302	0.139857	0.000655	0.013610	0.007606	0.002130	0.021301
25-Feb-2024	0.533207	14.029100	21.794500	3.556120	49.674765	2.062540	0.033904	0.354942	0.051504	0.003787	0.002305	0.140049	0.000656	0.013629	0.007617	0.002133	0.021329
26-Feb-2024	0.533187	14.102200	21.908200	3.574580	49.933314	2.073300	0.034080	0.356784	0.051771	0.003807	0.002317	0.140772	0.000659	0.013699	0.007656	0.002144	0.021441
27-Feb-2024	0.533174	14.179200	22.027800	3.594100	50.205966	2.084620	0.034266	0.358732	0.052054	0.003828	0.002329	0.141541	0.000663	0.013774	0.007698	0.002156	0.021558
28-Feb-2024	0.533161	14.257500	22.149400	3.613940	50.483182	2.096130	0.034456	0.360713	0.052341	0.003849	0.002342	0.142322	0.000667	0.013850	0.007741	0.002168	0.021677
29-Feb-2024	0.533142	14.338800	22.275800	3.634560	50.771102	2.108090	0.034652	0.362771	0.052640	0.003871	0.002356	0.143134	0.000671	0.013929	0.007785	0.002180	0.021800
1-Mar-2024	0.533125	14.422700	22.406200	3.655820	51.068149	2.120430	0.034855	0.364893	0.052948	0.003893	0.002369	0.143971	0.000674	0.014011	0.007830	0.002193	0.021928
2-Mar-2024	0.533110	14.513000	22.546400	3.678690	51.387806	2.133700	0.035073	0.367176	0.053279	0.003918	0.002384	0.144871	0.000679	0.014098	0.007879	0.002207	0.022065
3-Mar-2024	0.533098	14.606000	22.690900	3.702260	51.717089	2.147370	0.035298	0.369529	0.053620	0.003943	0.002399	0.145800	0.000683	0.014189	0.007930	0.002221	0.022207
4-Mar-2024	0.533086	14.698800	22.835100	3.725800	52.045748	2.161020	0.035522	0.371877	0.053961	0.003968	0.002415	0.146726	0.000687	0.014279	0.007980	0.002235	0.022348
5-Mar-2024	0.533074	14.788700	22.974800	3.748580	52.364036	2.174240	0.035739	0.374152	0.054291	0.003992	0.002429	0.147623	0.000692	0.014366	0.008029	0.002248	0.022484
6-Mar-2024	0.533060	14.873400	23.106300	3.770030	52.663863	2.186690	0.035944	0.376293	0.054602	0.004015	0.002443	0.148468	0.000696	0.014448	0.008075	0.002261	0.022613
7-Mar-2024	0.533044	14.962100	23.244100	3.792510	52.977920	2.199730	0.036158	0.378536	0.054927	0.004039	0.002458	0.149353	0.000700	0.014535	0.008123	0.002275	0.022748
8-Mar-2024	0.533032	15.055300	23.389000	3.816150	53.307990	2.213440	0.036384	0.380896	0.055269	0.004064	0.002473	0.150284	0.000704	0.014625	0.008174	0.002289	0.022890
9-Mar-2024	0.533022	15.150300	23.536500	3.840210	53.644284	2.227400	0.036613	0.383297	0.055618	0.004090	0.002489	0.151231	0.000708	0.014717	0.008225	0.002303	0.023034
10-Mar-2024	0.533011	15.240500	23.676600	3.863070	53.963651	2.240660	0.036831	0.385579	0.055949	0.004114	0.002504	0.152131	0.000713	0.014805	0.008274	0.002317	0.023171
11-Mar-2024	0.532999	15.331100	23.817400	3.886040	54.284469	2.253990	0.037050	0.387872	0.056282	0.004139	0.002519	0.153035	0.000717	0.014893	0.008323	0.002331	0.023309
12-Mar-2024	0.532988	15.428700	23.969100	3.910790	54.630097	2.268340	0.037286	0.390342	0.056640	0.004165	0.002535	0.154010	0.000721	0.014988	0.008376	0.002346	0.023457
13-Mar-2024	0.532979	15.533300	24.131500	3.937290	55.000410	2.283710	0.037539	0.392987	0.057024	0.004193	0.002552	0.155053	0.000726	0.015089	0.008433	0.002362	0.023616
14-Mar-2024	0.532971	15.638500	24.295000	3.963950	55.372881	2.299180	0.037793	0.395648	0.057410	0.004222	0.002569	0.156103	0.000731	0.015192	0.008490	0.002378	0.023776
15-Mar-2024	0.532963	15.740700	24.453800	3.989860	55.734771	2.314210	0.038040	0.398234	0.057785	0.004249	0.002586	0.157124	0.000736	0.015291	0.008546	0.002393	0.023932
16-Mar-2024	0.532954	15.849800	24.623300	4.017510	56.121057	2.330250	0.038303	0.400994	0.058186	0.004279	0.002604	0.158212	0.000741	0.015397	0.008605	0.002410	0.024098
17-Mar-2024	0.532947	15.955300	24.787200	4.044260	56.494647	2.345760	0.038558	0.403664	0.058573	0.004307	0.002621	0.159266	0.000746	0.015499	0.008662	0.002426	0.024258
18-Mar-2024	0.532940	16.059800	24.949500	4.070740	56.864628	2.361120	0.038811	0.406307	0.058957	0.004335	0.002638	0.160308	0.000751	0.015601	0.008719	0.002442	0.024417
19-Mar-2024	0.532932	16.162800	25.109500	4.096830	57.229258	2.376260	0.039060	0.408911	0.059335	0.004363	0.002655	0.161335	0.000756	0.015701	0.008775	0.002457	0.024573
20-Mar-2024	0.532926	16.268000	25.272900	4.123500	57.601769	2.391730	0.039314	0.411572	0.059721	0.004392	0.002672	0.162385	0.000761	0.015803	0.008832	0.002473	0.024733
21-Mar-2024	0.532921	16.453300	25.560800	4.170500	58.258009	2.418970	0.039762	0.416264	0.060402	0.004442	0.002703	0.164238	0.000769	0.015983	0.008933	0.002502	0.025015
22-Mar-2024	0.532918	16.648800	25.864600	4.220060	58.950261	2.447720	0.040235	0.421211	0.061119	0.004494	0.002735	0.166189	0.000779	0.016173	0.009039	0.002531	0.025312
23-Mar-2024	0.532915	16.849500	26.176200	4.270910	59.660809	2.477210	0.040719	0.426286	0.061856	0.004549	0.002768	0.168192	0.000788	0.016368	0.009148	0.002562	0.025617
24-Mar-2024	0.532913	17.054000	26.494000	4.322760	60.384964	2.507290	0.041214	0.431461	0.062607	0.004604	0.002802	0.170234	0.000797	0.016567	0.009259	0.002593	0.025928
25-Mar-2024	0.532912	17.264600	26.821200	4.376140	61.130651	2.538250	0.041723	0.436789	0.063380	0.004661	0.002836	0.172336	0.000807	0.016771	0.009373	0.002625	0.026249
26-Mar-2024	0.532912	17.478900	27.154200	4.430470	61.889489	2.569760	0.042241	0.442212	0.064167	0.004718	0.002871	0.174475	0.000817	0.016980	0.009489	0.002657	0.026575
27-Mar-2024	0.532912	17.692900	27.486500	4.484690	62.647125	2.601210	0.042758	0.447624	0.064952	0.004776	0.002907	0.176611	0.000827	0.017187	0.009606	0.002690	0.026900
28-Mar-2024	0.532912	17.907300	27.819600	4.539050	63.406336	2.632740	0.043276	0.453049	0.065739	0.004834	0.002942	0.178751	0.000837	0.017396	0.009722	0.002723	0.027226
29-Mar-2024	0.532912	18.122800	28.154400	4.593670	64.169365	2.664420	0.043797	0.458501	0.066530	0.004892	0.002977	0.180903	0.000847	0.017605	0.009839	0.002755	0.027553
30-Mar-2024	0.532911	18.339700	28.491400	4.648650	64.937372	2.696310	0.044321	0.463989	0.067327	0.004951	0.003013	0.183068	0.000858	0.017816	0.009957	0.002788	0.027883
31-Mar-2024	0.532911	18.558700	28.831600	4.704170	65.712846	2.728510	0.044850	0.469530	0.068131	0.005010	0.003049	0.185254	0.000868	0.018028	0.010076	0.002822	0.028216
1-Apr-2024	0.532911	18.729400	29.096800	4.747430	66.317229	2.753600	0.045262	0.473848	0.068757	0.005056	0.003077	0.186958	0.000876	0.018194	0.010168	0.002848	0.028476
2-Apr-2024	0.532911	18.617700	28.923300	4.719120	65.921733	2.737180	0.044993	0.471023	0.068347	0.005026	0.003058	0.185843	0.000871	0.018086	0.010108	0.002831	0.028306
3-Apr-2024	0.532911	18.483700	28.715100	4.685150	65.447247	2.717480	0.044669	0.467632	0.067855	0.004990	0.003036	0.184505	0.000864	0.017956	0.010035	0.002810	0.028102
4-Apr-2024	0.532911	18.368700	28.536400	4.656000	65.040052	2.700570	0.044391	0.464722	0.067433	0.004959	0.003018	0.183357	0.000859	0.017844	0.009973	0.002793	0.027927
5-Apr-2024	0.532912	18.268300	28.380400	4.630550	64.684550	2.685810	0.044148	0.462182	0.067064	0.004932	0.003001	0.182355	0.000854	0.017746	0.009918	0.002777	0.027775
6-Apr-2024	0.532911	18.179000	28.241700	4.607910	64.368336	2.672680	0.043932	0.459922	0.066737	0.004907	0.002986	0.181463	0.000850	0.017660	0.009870	0.002764	0.027639
7-Apr-2024	0.532912	18.098500	28.116600	4.587510	64.083321	2.660840	0.043738	0.457886	0.066441	0.004886	0.002973	0.180660	0.000846	0.017581	0.009826	0.002752	0.027516

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Apr-2024	0.532912	18.025500	28.003200	4.569000	63.824816	2.650110	0.043561	0.456039	0.066173	0.004866	0.002961	0.179931	0.000843	0.017510	0.009786	0.002741	0.027405
9-Apr-2024	0.532912	17.958800	27.899600	4.552100	63.588671	2.640310	0.043400	0.454352	0.065928	0.004848	0.002950	0.179266	0.000840	0.017446	0.009750	0.002730	0.027304
10-Apr-2024	0.532912	17.897500	27.804400	4.536560	63.371612	2.631290	0.043252	0.452801	0.065703	0.004831	0.002940	0.178654	0.000837	0.017386	0.009717	0.002721	0.027211
11-Apr-2024	0.532912	17.844000	27.721300	4.522980	63.182100	2.623440	0.043123	0.451445	0.065506	0.004817	0.002931	0.178117	0.000834	0.017334	0.009688	0.002713	0.027130
12-Apr-2024	0.532912	17.809400	27.667600	4.514210	63.059589	2.618350	0.043039	0.450570	0.065379	0.004808	0.002926	0.177772	0.000833	0.017301	0.009669	0.002708	0.027077
13-Apr-2024	0.532900	17.739200	27.558500	4.496450	62.811164	2.608030	0.042870	0.448798	0.065122	0.004789	0.002914	0.177074	0.000830	0.017232	0.009631	0.002697	0.026970
14-Apr-2024	0.532900	17.694000	27.488200	4.484980	62.651066	2.601370	0.042760	0.447652	0.064956	0.004777	0.002907	0.176622	0.000827	0.017188	0.009606	0.002690	0.026901
15-Apr-2024	0.532900	17.651800	27.422700	4.474280	62.501630	2.595170	0.042658	0.446585	0.064801	0.004765	0.002900	0.176201	0.000825	0.017147	0.009583	0.002684	0.026837
16-Apr-2024	0.532900	17.612200	27.361200	4.464250	62.361445	2.589350	0.042563	0.445584	0.064656	0.004754	0.002893	0.175806	0.000824	0.017109	0.009562	0.002678	0.026777
17-Apr-2024	0.532900	17.574900	27.303300	4.454800	62.229392	2.583870	0.042473	0.444641	0.064519	0.004744	0.002887	0.175434	0.000822	0.017073	0.009542	0.002672	0.026720
18-Apr-2024	0.532900	17.539800	27.248800	4.445910	62.105138	2.578710	0.042388	0.443753	0.064390	0.004735	0.002881	0.175084	0.000820	0.017039	0.009523	0.002667	0.026667
19-Apr-2024	0.532900	17.506900	27.197500	4.437550	61.988560	2.573870	0.042308	0.442919	0.064269	0.004726	0.002876	0.174755	0.000819	0.017007	0.009505	0.002662	0.026617
20-Apr-2024	0.532900	17.475900	27.149500	4.429720	61.878909	2.569320	0.042233	0.442137	0.064156	0.004718	0.002871	0.174446	0.000817	0.016977	0.009488	0.002657	0.026570
21-Apr-2024	0.532900	17.447000	27.104400	4.422370	61.776479	2.565060	0.042163	0.441403	0.064049	0.004710	0.002866	0.174157	0.000816	0.016948	0.009472	0.002653	0.026526
22-Apr-2024	0.532900	17.419800	27.062200	4.415470	61.680146	2.561060	0.042098	0.440715	0.063950	0.004703	0.002862	0.173885	0.000815	0.016922	0.009457	0.002648	0.026485
23-Apr-2024	0.532901	17.394300	27.022600	4.409020	61.589911	2.557310	0.042036	0.440071	0.063856	0.004696	0.002857	0.173631	0.000813	0.016897	0.009444	0.002645	0.026446
24-Apr-2024	0.532900	17.149900	26.642900	4.347060	60.724493	2.521380	0.041445	0.433886	0.062959	0.004630	0.002817	0.171191	0.000802	0.016660	0.009311	0.002607	0.026074
25-Apr-2024	0.532900	17.126200	26.606100	4.341060	60.640606	2.517900	0.041388	0.433288	0.062872	0.004623	0.002813	0.170955	0.000801	0.016637	0.009298	0.002604	0.026038
26-Apr-2024	0.532901	17.104100	26.571800	4.335450	60.562321	2.514640	0.041335	0.432728	0.062791	0.004617	0.002810	0.170734	0.000800	0.016615	0.009286	0.002600	0.026005
27-Apr-2024	0.532901	17.083500	26.539800	4.330240	60.489428	2.511620	0.041285	0.432208	0.062715	0.004612	0.002806	0.170529	0.000799	0.016595	0.009275	0.002597	0.025973
28-Apr-2024	0.532901	17.064500	26.510200	4.325410	60.422095	2.508820	0.041239	0.431726	0.062645	0.004607	0.002803	0.170339	0.000798	0.016577	0.009264	0.002594	0.025944
29-Apr-2024	0.532899	17.043100	26.477000	4.319990	60.346340	2.505680	0.041187	0.431185	0.062567	0.004601	0.002800	0.170125	0.000797	0.016556	0.009253	0.002591	0.025912
30-Apr-2024	0.532883	16.989300	26.393400	4.306350	60.155831	2.497770	0.041057	0.429824	0.062369	0.004586	0.002791	0.169588	0.000794	0.016504	0.009224	0.002583	0.025830
1-May-2024	0.532790	16.992700	26.398800	4.307230	60.167945	2.498270	0.041066	0.429911	0.062382	0.004587	0.002792	0.169623	0.000795	0.016507	0.009226	0.002584	0.025835
2-May-2024	0.532377	17.235800	26.776400	4.368810	61.028552	2.534020	0.041653	0.436058	0.063274	0.004653	0.002831	0.172046	0.000806	0.016743	0.009357	0.002620	0.026205
3-May-2024	0.531911	17.276200	26.839200	4.379070	61.171682	2.539960	0.041750	0.437081	0.063422	0.004664	0.002838	0.172450	0.000808	0.016783	0.009379	0.002627	0.026266
4-May-2024	0.531522	17.134600	26.619200	4.343170	60.670270	2.519140	0.041408	0.433498	0.062902	0.004626	0.002815	0.171036	0.000801	0.016645	0.009303	0.002605	0.026051
5-May-2024	0.531131	16.929300	26.300300	4.291130	59.943335	2.488960	0.040912	0.428304	0.062149	0.004570	0.002781	0.168987	0.000792	0.016446	0.009191	0.002574	0.025739
6-May-2024	0.530798	16.690600	25.929500	4.230620	59.098121	2.453860	0.040335	0.422265	0.061272	0.004506	0.002742	0.166604	0.000780	0.016214	0.009061	0.002538	0.025376
7-May-2024	0.531666	16.436800	25.535200	4.166290	58.199472	2.416540	0.039722	0.415843	0.060340	0.004437	0.002700	0.164070	0.000769	0.015967	0.008924	0.002499	0.024990
8-May-2024	0.534066	16.220200	25.198700	4.111380	57.432502	2.384700	0.039198	0.410363	0.059545	0.004379	0.002665	0.161908	0.000759	0.015757	0.008806	0.002466	0.024661
9-May-2024	0.536620	16.005200	24.864600	4.056890	56.671257	2.353090	0.038679	0.404924	0.058756	0.004321	0.002629	0.159763	0.000748	0.015548	0.008689	0.002433	0.024334
10-May-2024	0.539074	15.933600	24.753500	4.038760	56.417813	2.342570	0.038506	0.403115	0.058494	0.004301	0.002618	0.159049	0.000745	0.015478	0.008651	0.002423	0.024225
11-May-2024	0.542411	15.820800	24.578200	4.010160	56.018376	2.325990	0.038233	0.400260	0.058079	0.004271	0.002599	0.157922	0.000740	0.015369	0.008589	0.002405	0.024054
12-May-2024	0.548108	15.617000	24.261600	3.958490	55.296711	2.296020	0.037741	0.395103	0.057331	0.004216	0.002565	0.155887	0.000730	0.015171	0.008479	0.002374	0.023744
13-May-2024	0.555626	15.457600	24.014000	3.918100	54.732363	2.272590	0.037356	0.391071	0.056746	0.004173	0.002539	0.154297	0.000723	0.015016	0.008392	0.002350	0.023501
14-May-2024	0.572532	15.025700	23.343100	3.808620	53.203070	2.209100	0.036312	0.380144	0.055160	0.004056	0.002468	0.149985	0.000703	0.014596	0.008158	0.002284	0.022845
15-May-2024	0.591321	14.890400	23.132800	3.774320	52.723979	2.189200	0.035985	0.376720	0.054663	0.004020	0.002446	0.148634	0.000696	0.014465	0.008084	0.002264	0.022639
16-May-2024	0.606037	14.724800	22.875500	3.732330	52.137561	2.164850	0.035584	0.372529	0.054055	0.003975	0.002419	0.146980	0.000689	0.014304	0.007994	0.002239	0.022387
17-May-2024	0.619478	14.592200	22.669500	3.698720	51.668052	2.145350	0.035264	0.369175	0.053569	0.003939	0.002397	0.145657	0.000682	0.014175	0.007922	0.002219	0.022186
18-May-2024	0.620548	14.395100	22.363400	3.648750	50.970117	2.116380	0.034787	0.364185	0.052845	0.003886	0.002365	0.143688	0.000673	0.013984	0.007815	0.002189	0.021886
19-May-2024	0.622323	14.102600	21.908900	3.574640	49.934560	2.073360	0.034081	0.356785	0.051773	0.003807	0.002317	0.140770	0.000659	0.013700	0.007656	0.002144	0.021441
20-May-2024	0.627436	13.679600	21.251700	3.467470	48.437003	2.011140	0.033058	0.346079	0.050222	0.003693	0.002247	0.136551	0.000640	0.013289	0.007427	0.002080	0.020798
21-May-2024	0.637721	13.342700	20.728100	3.382110	47.244251	1.961580	0.032243	0.337551	0.048987	0.003602	0.002192	0.133191	0.000624	0.012962	0.007244	0.002029	0.020286
22-May-2024	0.652264	13.116100	20.376100	3.324680	46.441934	1.928260	0.031696	0.331818	0.048156	0.003541	0.002155	0.130930	0.000613	0.012742	0.007121	0.001994	0.019941
23-May-2024	0.669294	12.861900	19.980900	3.260270	45.541956	1.890850	0.031081	0.325381	0.047224	0.003472	0.002113	0.128395	0.000601	0.012495	0.006983	0.001955	0.019554
24-May-2024	0.682857	12.486500	19.397700	3.165150	44.212878	1.835640	0.030174	0.315882	0.045848	0.003371	0.002052	0.124651	0.000584	0.012130	0.006779	0.001898	0.018984
25-May-2024	0.693631	12.226800	18.994200	3.099360	43.293484	1.797440	0.029546	0.309311	0.044896	0.003300	0.002009	0.122061	0.000572	0.011878	0.006638	0.001859	0.018589
26-May-2024	0.710689	11.919400	18.516400	3.021460	42.205114	1.752210	0.028803	0.301528	0.043768	0.003217	0.001958	0.118994	0.000557	0.011580	0.006471	0.001812	0.018121
27-May-2024	0.721724	11.792300	18.319000	2.989250	41.755105	1.733520	0.028495	0.298313	0.043302	0.003183	0.001938	0.117726	0.000551	0.011456	0.006402	0.001793	0.017928
28-May-2024	0.743420	11.662200	18.116800	2.956280	41.294474	1.714390	0.028181	0.295021	0.042825	0.003148	0.001916	0.116429	0.000545	0.011330	0.006331	0.001773	0.017730
29-May-2024	0.759728	11.605500	18.028700	2.941960	41.093925	1.706040	0.028044	0.293586	0.042618	0.003133	0.001907	0.115866	0.000543	0.011275	0.006301	0.001764	0.017644

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30-May-2024	0.769893	11.520700	17.896800	2.920520	40.793889	1.693550	0.027839	0.291445	0.042308	0.003110	0.001893	0.115026	0.000539	0.011193	0.006255	0.001751	0.017515
31-May-2024	0.784833	11.422900	17.744500	2.895800	40.447886	1.679130	0.027603	0.288973	0.041950	0.003083	0.001877	0.114059	0.000534	0.011098	0.006201	0.001737	0.017366
1-Jun-2024	0.877093	11.297200	17.549100	2.864000	40.003060	1.660620	0.027299	0.285791	0.041491	0.003050	0.001857	0.112809	0.000528	0.010976	0.006133	0.001717	0.017175
2-Jun-2024	1.031191	11.069100	17.179600	2.810420	39.212852	1.624730	0.026764	0.280243	0.040891	0.002984	0.001827	0.110869	0.000517	0.010775	0.006007	0.001684	0.016835
3-Jun-2024	1.257127	10.976600	17.027200	2.789450	38.895525	1.609870	0.026552	0.278056	0.044160	0.002957	0.001859	0.110145	0.000512	0.010697	0.005956	0.001670	0.016699
4-Jun-2024	1.454698	10.820000	16.755200	2.763590	38.398004	1.582760	0.026229	0.274888	0.041702	0.002907	0.001839	0.110302	0.000503	0.010617	0.005867	0.001648	0.016482
5-Jun-2024	1.401063	10.571800	16.314900	2.710470	37.559500	1.538200	0.025679	0.269247	0.041035	0.002825	0.001811	0.108330	0.000489	0.010418	0.005725	0.001613	0.016129
6-Jun-2024	1.347548	10.469500	16.144700	2.687780	37.210620	1.521350	0.025444	0.266818	0.040583	0.002795	0.001789	0.107228	0.000484	0.010334	0.005668	0.001598	0.015980
7-Jun-2024	1.289913	10.306500	15.877600	2.650380	36.649595	1.495150	0.025064	0.262898	0.040532	0.002747	0.001776	0.105912	0.000475	0.010195	0.005578	0.001574	0.015739
8-Jun-2024	1.351864	10.070500	15.480400	2.599230	35.849668	1.455680	0.024528	0.257392	0.040361	0.002674	0.001767	0.104762	0.000463	0.010007	0.005445	0.001540	0.015396
9-Jun-2024	1.476395	9.871230	15.145500	2.555850	35.173452	1.422380	0.024070	0.252684	0.040101	0.002614	0.001752	0.103619	0.000452	0.009859	0.005334	0.001511	0.015106
10-Jun-2024	1.688931	9.739930	14.926700	2.527820	34.730168	1.400290	0.023764	0.249534	0.039645	0.002574	0.001730	0.102197	0.000445	0.009746	0.005260	0.001491	0.014912
11-Jun-2024	1.992206	9.558290	14.619600	2.487730	34.111522	1.369470	0.023321	0.244911	0.039382	0.002518	0.001717	0.101191	0.000435	0.009601	0.005158	0.001465	0.014646
12-Jun-2024	2.226495	9.359030	14.276200	2.446790	33.445379	1.334740	0.022868	0.240161	0.038912	0.002454	0.001692	0.099457	0.000424	0.009448	0.005045	0.001436	0.014360
13-Jun-2024	2.486848	9.139490	13.896000	2.405210	32.725961	1.296230	0.022392	0.235573	0.038687	0.002384	0.001681	0.098552	0.000412	0.009311	0.004921	0.001405	0.014045
14-Jun-2024	2.737408	8.951230	13.571900	2.365710	32.093215	1.263380	0.021960	0.230989	0.038310	0.002325	0.001663	0.097203	0.000401	0.009164	0.004814	0.001377	0.013773
15-Jun-2024	2.976924	8.805080	13.322900	2.332040	31.589625	1.238170	0.021589	0.226313	0.037889	0.002279	0.001640	0.095853	0.000393	0.009033	0.004732	0.001356	0.013559
16-Jun-2024	3.288116	8.634430	13.032200	2.295660	31.013700	1.208820	0.021185	0.222164	0.037700	0.002227	0.001630	0.094868	0.000384	0.008900	0.004636	0.001331	0.013309
17-Jun-2024	3.497600	8.419550	12.664200	2.250120	30.289611	1.172030	0.020697	0.216196	0.037293	0.002162	0.001608	0.093388	0.000372	0.008735	0.004514	0.001299	0.012993
18-Jun-2024	3.610961	8.315610	12.488100	2.227510	29.936964	1.154520	0.020458	0.213516	0.037268	0.002131	0.001601	0.092812	0.000367	0.008653	0.004456	0.001284	0.012839
19-Jun-2024	3.770696	8.174700	12.245300	2.198090	29.463961	1.130450	0.020154	0.210242	0.037104	0.002088	0.001588	0.091920	0.000359	0.008547	0.004377	0.001263	0.012633
20-Jun-2024	3.951374	8.090150	12.103500	2.179060	29.174474	1.116610	0.019963	0.208040	0.036921	0.002064	0.001580	0.091312	0.000354	0.008478	0.004330	0.001250	0.012503
21-Jun-2024	4.017724	7.941230	11.842900	2.149120	28.679327	1.090690	0.019652	0.204744	0.036811	0.002018	0.001569	0.090678	0.000346	0.008373	0.004245	0.001229	0.012289
22-Jun-2024	4.099956	7.826960	11.648700	2.124180	28.291292	1.071530	0.019396	0.201871	0.036654	0.001985	0.001559	0.090044	0.000340	0.008283	0.004181	0.001212	0.012116
23-Jun-2024	4.190537	7.679180	11.390600	2.094700	27.800887	1.045270	0.019062	0.198561	0.036496	0.001938	0.001549	0.089147	0.000331	0.008178	0.004097	0.001191	0.011905
24-Jun-2024	4.357282	7.569960	11.203400	2.071660	27.433286	1.027040	0.018908	0.195901	0.036427	0.001908	0.001545	0.088835	0.000325	0.008095	0.004036	0.001174	0.011742
25-Jun-2024	4.587604	7.439930	10.975800	2.045860	27.002357	1.003890	0.018554	0.193017	0.036235	0.001866	0.001533	0.088049	0.000318	0.008004	0.003962	0.001156	0.011556
26-Jun-2024	4.771885	7.285360	10.705300	2.015790	26.492567	0.976930	0.018243	0.189884	0.036071	0.001820	0.001528	0.087182	0.000309	0.007904	0.003875	0.001133	0.011335
27-Jun-2024	5.065182	7.168410	10.502300	1.990270	26.095452	0.956555	0.017961	0.186697	0.035913	0.001785	0.001518	0.086549	0.000303	0.007810	0.003809	0.001116	0.011158
28-Jun-2024	5.273436	7.052540	10.299200	1.966560	25.708486	0.935534	0.017670	0.183878	0.035793	0.001748	0.001508	0.085785	0.000296	0.007726	0.003743	0.001099	0.010990
29-Jun-2024	5.487426	6.932970	10.090300	1.942310	25.310059	0.914469	0.017404	0.181085	0.035652	0.001711	0.001500	0.085161	0.000289	0.007641	0.003675	0.001082	0.010816
30-Jun-2024	5.703647	6.826920	9.908610	1.919770	24.952432	0.896921	0.017175	0.178482	0.035472	0.001684	0.001490	0.084739	0.000284	0.007562	0.003616	0.001066	0.010656
1-Jul-2024	5.780359	6.743960	9.785520	1.890310	24.623965	0.885071	0.016900	0.175351	0.034838	0.001670	0.001468	0.083797	0.000280	0.007489	0.003578	0.001051	0.010515
2-Jul-2024	8.035931	6.478690	9.375520	1.810340	23.632269	0.844196	0.016098	0.167327	0.034202	0.001601	0.001427	0.081714	0.000268	0.007280	0.003448	0.001014	0.010135
3-Jul-2024	9.176193	6.903280	10.161500	1.869640	24.936668	0.923509	0.016835	0.174695	0.034648	0.001738	0.001421	0.082725	0.000295	0.007591	0.003709	0.001077	0.010774
4-Jul-2024	11.445758	6.160570	8.822110	1.738900	22.543733	0.794298	0.015552	0.161920	0.033395	0.001546	0.001387	0.081228	0.000251	0.007050	0.003275	0.000964	0.009638
5-Jul-2024	10.793398	6.675870	9.756930	1.817800	24.155348	0.889192	0.016541	0.171881	0.034168	0.001710	0.001397	0.082684	0.000282	0.007445	0.003588	0.001042	0.010416
6-Jul-2024	12.356827	6.547910	9.527690	1.799660	23.761131	0.866230	0.016319	0.169654	0.033888	0.001675	0.001393	0.082544	0.000275	0.007340	0.003509	0.001022	0.010221
7-Jul-2024	11.375537	6.152330	8.814160	1.735440	22.508910	0.795265	0.015565	0.162104	0.033047	0.001559	0.001379	0.081077	0.000251	0.007025	0.003271	0.000961	0.009610
8-Jul-2024	11.536023	6.286960	9.061740	1.756610	22.932259	0.820053	0.015803	0.164478	0.033131	0.001603	0.001380	0.081944	0.000259	0.007117	0.003351	0.000981	0.009810
9-Jul-2024	12.474956	6.566890	9.563600	1.800370	23.811448	0.872114	0.016443	0.171146	0.033610	0.001708	0.001388	0.084766	0.000276	0.007342	0.003522	0.001023	0.010228
10-Jul-2024	12.423406	6.244650	8.970570	1.751700	22.806392	0.813393	0.015841	0.165136	0.033084	0.001609	0.001381	0.082484	0.000257	0.007103	0.003327	0.000974	0.009737
11-Jul-2024	12.118096	6.307170	9.096110	1.761510	23.002902	0.823850	0.015857	0.165157	0.033056	0.001615	0.001381	0.081876	0.000261	0.007128	0.003362	0.000984	0.009837
12-Jul-2024	12.710713	6.602760	9.637610	1.808430	23.934206	0.877828	0.016384	0.170458	0.033380	0.001706	0.001387	0.082980	0.000279	0.007337	0.003540	0.001028	0.010283
13-Jul-2024	12.850629	7.489250	11.247800	1.943460	26.703826	1.040420	0.018043	0.187038	0.034703	0.001985	0.001407	0.085795	0.000333	0.008015	0.004079	0.001162	0.011620
14-Jul-2024	13.141119	7.340050	10.982200	1.920370	26.236189	1.012660	0.017720	0.183790	0.034445	0.001931	0.001403	0.084901	0.000324	0.007893	0.003988	0.001140	0.011398
15-Jul-2024	14.024671	7.019870	10.398300	1.873840	25.245089	0.954223	0.017150	0.178141	0.033883	0.001837	0.001396	0.084234	0.000304	0.007641	0.003791	0.001091	0.010912
16-Jul-2024	14.572119	7.103870	10.534500	1.887520	25.511171	0.971076	0.017447	0.181321	0.034074	0.001884	0.001400	0.085564	0.000309	0.007729	0.003844	0.001103	0.011028
17-Jul-2024	14.762538	7.442510	11.159200	1.938400	26.566279	1.032300	0.017996	0.186736	0.034526	0.001978	0.001406	0.086055	0.000330	0.007975	0.004050	0.001154	0.011544
18-Jul-2024	14.962933	7.499730	11.269000	1.948990	26.752767	1.042460	0.018066	0.187429	0.034494	0.001992	0.001407	0.085992	0.000333	0.008000	0.004081	0.001163	0.011632
19-Jul-2024	15.326215	7.052110	10.454700	1.880400	25.352606	0.960189	0.017223	0.178955	0.033814	0.001852	0.001397	0.084503	0.000306	0.007660	0.003809	0.001096	0.010955
20-Jul-2024	15.821406	7.242870	10.805300	1.910450	25.952679	0.994915	0.017552	0.182241	0.034019	0.001909	0.001401	0.084965	0.000318	0.007794	0.003924	0.001124	0.011244

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21-Jul-2024	16.246394	7.494830	11.265000	1.948960	26.740408	1.040960	0.018006	0.186772	0.034366	0.001986	0.001406	0.085706	0.000333	0.007983	0.004077	0.001162	0.011624
22-Jul-2024	16.455583	7.955060	12.105800	2.019570	28.180374	1.125060	0.018833	0.195035	0.034990	0.002126	0.001416	0.087018	0.000361	0.008324	0.004355	0.001232	0.012321
23-Jul-2024	16.888163	7.495650	11.269300	1.950890	26.750403	1.040980	0.017992	0.186641	0.034251	0.001986	0.001406	0.085667	0.000333	0.007969	0.004075	0.001162	0.011625
24-Jul-2024	17.576237	7.047900	10.452900	1.883830	25.356218	0.958993	0.017175	0.178445	0.033530	0.001851	0.001397	0.084406	0.000306	0.007626	0.003801	0.001094	0.010944
25-Jul-2024	17.799127	6.937570	10.251700	1.867790	25.014672	0.938721	0.016971	0.176385	0.033315	0.001818	0.001395	0.084125	0.000300	0.007538	0.003733	0.001078	0.010775
26-Jul-2024	16.707513	7.011230	10.387300	1.879830	25.248181	0.952131	0.017097	0.177626	0.033371	0.001840	0.001396	0.084326	0.000304	0.007588	0.003777	0.001089	0.010886
27-Jul-2024	16.257638	7.011540	10.388500	1.880700	25.252538	0.952071	0.017090	0.177549	0.033312	0.001841	0.001396	0.084337	0.000304	0.007582	0.003776	0.001089	0.010885
28-Jul-2024	15.742227	7.083850	10.520600	1.892440	25.481441	0.965296	0.017221	0.178863	0.033372	0.001864	0.001398	0.084600	0.000309	0.007632	0.003819	0.001099	0.010993
29-Jul-2024	15.632529	7.139300	10.622300	1.901660	25.657868	0.975473	0.017322	0.179888	0.033405	0.001882	0.001399	0.084801	0.000312	0.007669	0.003852	0.001108	0.011076
30-Jul-2024	15.654287	7.275150	10.873000	1.923360	26.086446	1.000190	0.017552	0.182196	0.033535	0.001922	0.001401	0.085094	0.000320	0.007762	0.003933	0.001128	0.011283
31-Jul-2024	15.672742	7.345300	10.999300	1.934510	26.307526	1.013060	0.017687	0.183538	0.033632	0.001946	0.001403	0.085414	0.000325	0.007817	0.003976	0.001139	0.011387
1-Aug-2024	14.870885	7.312230	10.939900	1.930330	26.207737	1.006940	0.017619	0.182874	0.033494	0.001938	0.001402	0.085389	0.000323	0.007783	0.003955	0.001133	0.011335
2-Aug-2024	15.113138	7.304990	10.928300	1.930190	26.189082	1.004930	0.017567	0.182292	0.033419	0.001935	0.001402	0.085319	0.000322	0.007770	0.003949	0.001132	0.011323
3-Aug-2024	15.330287	7.456750	11.208100	1.954530	26.668259	1.031880	0.017793	0.184479	0.033559	0.001979	0.001405	0.085642	0.000332	0.007873	0.004039	0.001155	0.011553
4-Aug-2024	15.311808	7.374950	11.061000	1.943800	26.419819	1.015980	0.017592	0.182394	0.033335	0.001954	0.001403	0.085362	0.000327	0.007799	0.003987	0.001143	0.011427
5-Aug-2024	15.432415	8.039290	12.274600	2.045360	28.496900	1.137150	0.018775	0.194188	0.034268	0.002156	0.001417	0.087232	0.000367	0.008294	0.004390	0.001243	0.012433
6-Aug-2024	14.651654	7.417200	11.140300	1.951900	26.558673	1.022720	0.017614	0.182539	0.033268	0.001966	0.001404	0.085427	0.000329	0.007818	0.004011	0.001149	0.011488
7-Aug-2024	14.362654	7.439990	11.183100	1.956730	26.635469	1.026230	0.017620	0.182557	0.033225	0.001973	0.001405	0.085504	0.000331	0.007826	0.004023	0.001152	0.011521
8-Aug-2024	14.421598	7.660460	11.587100	1.992170	27.331925	1.065600	0.017968	0.185970	0.033437	0.002041	0.001409	0.086146	0.000344	0.007980	0.004154	0.001185	0.011852
9-Aug-2024	14.336077	7.570900	11.425200	1.978930	27.053771	1.048970	0.017788	0.184162	0.033280	0.002012	0.001407	0.085819	0.000339	0.007908	0.004099	0.001172	0.011718
10-Aug-2024	13.396733	7.674120	11.612900	1.995920	27.381476	1.067390	0.017956	0.185837	0.033366	0.002047	0.001410	0.086266	0.000345	0.007981	0.004161	0.001187	0.011872
11-Aug-2024	12.962169	7.709170	11.678300	2.002420	27.495763	1.073180	0.017985	0.186080	0.033341	0.002058	0.001410	0.086351	0.000348	0.007999	0.004181	0.001192	0.011924
12-Aug-2024	13.115015	7.719220	11.697700	2.004970	27.531359	1.074410	0.017970	0.185896	0.033275	0.002060	0.001411	0.086352	0.000348	0.007999	0.004185	0.001194	0.011936
13-Aug-2024	13.241685	8.290980	12.742200	2.092330	29.318792	1.178680	0.018987	0.196034	0.034075	0.002234	0.001422	0.087947	0.000383	0.008425	0.004532	0.001280	0.012802
14-Aug-2024	13.116088	8.447610	13.028200	2.116420	29.809100	1.207170	0.019262	0.198762	0.034291	0.002281	0.001426	0.088398	0.000393	0.008540	0.004627	0.001304	0.013039
15-Aug-2024	13.353160	8.815970	13.699800	2.173580	30.964280	1.274010	0.019907	0.205177	0.034780	0.002396	0.001433	0.089585	0.000415	0.008813	0.004850	0.001359	0.013595
16-Aug-2024	14.300748	8.340770	12.832000	2.103140	29.487633	1.186270	0.019010	0.196169	0.034012	0.002255	0.001424	0.088392	0.000386	0.008448	0.004559	0.001287	0.012873
17-Aug-2024	13.226094	8.007760	12.227600	2.054280	28.454902	1.124360	0.018346	0.189471	0.033410	0.002153	0.001417	0.087349	0.000366	0.008183	0.004355	0.001237	0.012368
18-Aug-2024	13.026685	7.845780	11.933700	2.030610	27.952965	1.094030	0.018014	0.186097	0.033064	0.002102	0.001414	0.086797	0.000356	0.008053	0.004255	0.001212	0.012120
19-Aug-2024	13.330342	7.919540	12.070900	2.042960	28.188001	1.106810	0.018104	0.186936	0.033093	0.002122	0.001415	0.086900	0.000361	0.008098	0.004298	0.001223	0.012231
20-Aug-2024	12.527254	8.077650	12.362400	2.068360	28.687399	1.134970	0.018343	0.189267	0.033253	0.002169	0.001418	0.087256	0.000371	0.008206	0.004392	0.001247	0.012472
21-Aug-2024	12.227250	8.715650	13.531200	2.167390	30.688290	1.250500	0.019426	0.200005	0.034070	0.002361	0.001431	0.088935	0.000410	0.008669	0.004777	0.001344	0.013439
22-Aug-2024	12.240838	8.538970	13.203800	2.138980	30.130128	1.218960	0.019162	0.197434	0.033861	0.002310	0.001428	0.088625	0.000399	0.008550	0.004672	0.001317	0.013167
23-Aug-2024	12.301858	8.662810	13.430400	2.158460	30.519575	1.241220	0.019365	0.199436	0.033993	0.002348	0.001430	0.088973	0.000406	0.008638	0.004746	0.001335	0.013353
24-Aug-2024	12.191354	8.800690	13.683500	2.180240	30.953551	1.265970	0.019587	0.201622	0.034143	0.002389	0.001433	0.089330	0.000415	0.008736	0.004829	0.001356	0.013562
25-Aug-2024	12.094531	8.446080	13.037300	2.127800	29.852142	1.200260	0.018901	0.194709	0.033537	0.002282	0.001426	0.088340	0.000393	0.008460	0.004611	0.001302	0.013023
26-Aug-2024	12.297573	8.639060	13.392100	2.158680	30.461177	1.234650	0.019198	0.197607	0.033719	0.002340	0.001430	0.088817	0.000405	0.008593	0.004727	0.001331	0.013314
27-Aug-2024	12.309696	8.229500	12.642500	2.098430	29.190396	1.158570	0.018408	0.189617	0.033031	0.002221	0.001422	0.087915	0.000380	0.008277	0.004476	0.001269	0.012686
28-Aug-2024	12.584183	8.740180	13.577800	2.175940	30.784750	1.252040	0.019324	0.198775	0.033766	0.002372	0.001432	0.089153	0.000411	0.008657	0.004786	0.001346	0.013464
29-Aug-2024	12.816667	9.260010	14.529800	2.257310	32.417848	1.345780	0.020190	0.207320	0.034412	0.002530	0.001443	0.090594	0.000443	0.009032	0.005099	0.001425	0.014251
30-Aug-2024	12.241037	8.310940	12.786800	2.111150	29.446133	1.171540	0.018481	0.190157	0.033118	0.002248	0.001425	0.088336	0.000385	0.008344	0.004525	0.001280	0.012805
31-Aug-2024	11.133729	8.251950	12.683800	2.104980	29.273427	1.160190	0.018330	0.188658	0.032865	0.002231	0.001423	0.088121	0.000382	0.008278	0.004486	0.001271	0.012714
1-Sep-2024	10.657885	8.332300	12.831800	2.117960	29.527512	1.174430	0.018447	0.189794	0.032919	0.002255	0.001424	0.088334	0.000387	0.008332	0.004534	0.001283	0.012835
2-Sep-2024	10.604788	8.791900	13.670000	2.187850	30.962941	1.258440	0.019274	0.198047	0.033570	0.002398	0.001434	0.089806	0.000415	0.008677	0.004813	0.001353	0.013528
3-Sep-2024	10.815627	8.970690	14.000200	2.214620	31.519618	1.291450	0.019594	0.201250	0.033814	0.002448	0.001436	0.090026	0.000426	0.008807	0.004922	0.001380	0.013803
4-Sep-2024	10.238704	8.461000	13.072000	2.137170	29.927983	1.198280	0.018654	0.191841	0.033004	0.002296	0.001425	0.088627	0.000395	0.008418	0.004612	0.001303	0.013028
5-Sep-2024	9.938270	8.783170	13.667200	2.185830	30.932823	1.257470	0.019200	0.197262	0.033356	0.002394	0.001429	0.089544	0.000415	0.008647	0.004807	0.001351	0.013515
6-Sep-2024	9.951735	9.075380	14.196900	2.230450	31.846217	1.310720	0.019746	0.202723	0.033835	0.002482	0.001436	0.090266	0.000432	0.008873	0.004985	0.001396	0.013958
7-Sep-2024	9.961341	8.956190	13.979200	2.212460	31.474517	1.288820	0.019526	0.200529	0.033647	0.002446	0.001434	0.089936	0.000425	0.008783	0.004912	0.001378	0.013776
8-Sep-2024	9.171608	8.670430	13.460700	2.168980	30.581923	1.236680	0.018989	0.195144	0.033159	0.002362	0.001426	0.089144	0.000408	0.008561	0.004739	0.001334	0.013342
9-Sep-2024	8.792493	8.973210	14.013000	2.215150	31.528093	1.291960	0.019532	0.200561	0.033585	0.002456	0.001432	0.090068	0.000426	0.008788	0.004923	0.001380	0.013799
10-Sep-2024	8.547128	9.053050	14.161300	2.227190	31.777034	1.306590	0.019663	0.201858	0.033659	0.002478	0.001433	0.090169	0.000431	0.008843	0.004971	0.001392	0.013920

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Sep-2024	8.579483	8.712530	13.542500	2.175670	30.714596	1.244260	0.019018	0.195360	0.033076	0.002378	0.001425	0.089270	0.000411	0.008580	0.004764	0.001340	0.013400
12-Sep-2024	8.590955	9.494300	14.968400	2.294540	33.156183	1.387140	0.020436	0.209537	0.034223	0.002616	0.001441	0.091506	0.000458	0.009169	0.005239	0.001458	0.014584
13-Sep-2024	8.956773	9.356260	14.719200	2.273310	32.724072	1.362080	0.020181	0.206997	0.034005	0.002571	0.001438	0.090959	0.000450	0.009061	0.005155	0.001438	0.014377
14-Sep-2024	8.878957	8.965240	14.008700	2.213850	31.502839	1.290680	0.019453	0.199687	0.033365	0.002455	0.001428	0.089838	0.000426	0.008760	0.004917	0.001378	0.013783
15-Sep-2024	9.055696	9.049140	14.164000	2.226580	31.764759	1.306080	0.019592	0.201071	0.033447	0.002480	0.001429	0.090037	0.000431	0.008819	0.004967	0.001391	0.013910
16-Sep-2024	8.970710	9.414130	14.830600	2.282050	32.904565	1.372820	0.020250	0.207643	0.033972	0.002591	0.001436	0.091051	0.000454	0.009092	0.005189	0.001446	0.014463
17-Sep-2024	9.146549	9.745390	15.438300	2.332280	33.938568	1.433480	0.020834	0.213459	0.034404	0.002691	0.001442	0.091884	0.000474	0.009335	0.005390	0.001496	0.014964
18-Sep-2024	9.293403	9.921560	15.760500	2.359110	34.488950	1.465690	0.021144	0.216533	0.034635	0.002746	0.001445	0.092416	0.000485	0.009466	0.005497	0.001523	0.015230
19-Sep-2024	8.741345	9.446150	14.900100	2.286350	33.002226	1.379160	0.020253	0.207598	0.033841	0.002602	0.001433	0.090888	0.000456	0.009095	0.005208	0.001451	0.014509
20-Sep-2024	8.356961	9.854600	15.647300	2.348370	34.277524	1.453930	0.020984	0.214898	0.034409	0.002726	0.001441	0.092004	0.000481	0.009399	0.005456	0.001513	0.015128
21-Sep-2024	8.269291	10.400600	16.648300	2.431160	35.981815	1.553970	0.021951	0.224541	0.035135	0.002891	0.001450	0.093435	0.000515	0.009801	0.005788	0.001595	0.015955
22-Sep-2024	8.076801	10.089700	16.079100	2.384200	35.012117	1.496890	0.021388	0.218918	0.034679	0.002797	0.001444	0.092616	0.000496	0.009569	0.005598	0.001548	0.015482
23-Sep-2024	7.551037	9.232140	14.513300	2.254250	32.335655	1.339800	0.019826	0.203293	0.033391	0.002538	0.001427	0.090249	0.000443	0.008923	0.005077	0.001418	0.014180
24-Sep-2024	6.820280	9.234470	14.517300	2.254760	32.343573	1.340140	0.019824	0.203259	0.033369	0.002541	0.001427	0.090308	0.000444	0.008924	0.005078	0.001418	0.014182
25-Sep-2024	6.430050	9.481830	14.972500	2.292070	33.114874	1.385600	0.020258	0.207589	0.033687	0.002615	0.001431	0.090888	0.000459	0.009104	0.005229	0.001456	0.014557
26-Sep-2024	5.748874	9.457650	14.928900	2.288460	33.039630	1.381180	0.020205	0.207044	0.033611	0.002610	0.001429	0.090889	0.000457	0.009083	0.005214	0.001452	0.014518
27-Sep-2024	5.624076	10.108600	16.117000	2.387420	35.072570	1.500200	0.021383	0.218819	0.034564	0.002807	0.001443	0.092722	0.000497	0.009573	0.005609	0.001550	0.015505
28-Sep-2024	5.234270	9.651790	15.285500	2.318050	33.646250	1.416580	0.020539	0.210359	0.033846	0.002668	0.001433	0.091334	0.000469	0.009224	0.005331	0.001481	0.014812
29-Sep-2024	5.076288	9.515210	15.039700	2.297170	33.219225	1.391770	0.020277	0.207718	0.033595	0.002626	0.001429	0.090853	0.000461	0.009115	0.005248	0.001460	0.014605
30-Sep-2024	4.377462	9.734390	15.441300	2.330500	33.903771	1.431840	0.020661	0.211524	0.033877	0.002693	0.001433	0.091465	0.000475	0.009276	0.005381	0.001493	0.014935
1-Oct-2024	4.238986	9.935920	15.808700	2.361130	34.533126	1.468710	0.021030	0.215226	0.034183	0.002754	0.001437	0.092026	0.000487	0.009428	0.005504	0.001524	0.015241
2-Oct-2024	4.025268	9.359000	14.757700	2.273070	32.729925	1.363390	0.019982	0.204753	0.033326	0.002578	0.001424	0.090317	0.000452	0.008992	0.005153	0.001437	0.014368
3-Oct-2024	4.007796	9.379350	14.794800	2.276170	32.793505	1.367130	0.020019	0.205131	0.033357	0.002584	0.001425	0.090375	0.000453	0.009008	0.005165	0.001440	0.014398
4-Oct-2024	3.890149	9.298020	14.646500	2.263560	32.538496	1.352340	0.019874	0.203675	0.033247	0.002560	0.001423	0.090139	0.000448	0.008947	0.005116	0.001427	0.014275
5-Oct-2024	3.507861	9.230460	14.522900	2.253100	32.326724	1.340060	0.019762	0.202571	0.033172	0.002541	0.001422	0.090016	0.000444	0.008898	0.005076	0.001417	0.014171
6-Oct-2024	3.088180	9.207510	14.480700	2.249470	32.254470	1.335970	0.019717	0.202116	0.033127	0.002534	0.001421	0.089967	0.000443	0.008881	0.005062	0.001414	0.014137
7-Oct-2024	2.255161	9.171410	14.414300	2.243730	32.140691	1.329520	0.019661	0.201566	0.033084	0.002524	0.001420	0.089858	0.000440	0.008856	0.005040	0.001408	0.014083
8-Oct-2024	1.416061	9.135210	14.348600	2.237730	32.025592	1.323150	0.019604	0.201013	0.033050	0.002512	0.001419	0.089730	0.000438	0.008831	0.005019	0.001403	0.014028
9-Oct-2024	0.925976	9.124670	14.329600	2.235910	31.991778	1.321330	0.019587	0.200845	0.033037	0.002509	0.001419	0.089685	0.000437	0.008823	0.005013	0.001401	0.014013
10-Oct-2024	0.374913	9.116420	14.315700	2.234230	31.964260	1.320000	0.019571	0.200693	0.033021	0.002507	0.001418	0.089634	0.000437	0.008816	0.005008	0.001400	0.014000
11-Oct-2024	0.179479	9.099630	14.285200	2.231490	31.911052	1.317040	0.019547	0.200453	0.033011	0.002501	0.001418	0.089585	0.000436	0.008804	0.004998	0.001398	0.013976
12-Oct-2024	0.151883	9.059500	14.211000	2.225300	31.785357	1.309800	0.019479	0.199795	0.032951	0.002492	0.001417	0.089661	0.000434	0.008776	0.004974	0.001391	0.013913
13-Oct-2024	0.082306	9.054090	14.202000	2.224150	31.767112	1.308950	0.019468	0.199689	0.032935	0.002489	0.001416	0.089544	0.000433	0.008771	0.004971	0.001391	0.013905
14-Oct-2024	0.091012	9.036290	14.169500	2.221270	31.710806	1.305790	0.019438	0.199399	0.032914	0.002485	0.001416	0.089571	0.000432	0.008758	0.004960	0.001388	0.013878
15-Oct-2024	0.113950	9.036640	14.170600	2.221180	31.711309	1.305910	0.019437	0.199383	0.032900	0.002485	0.001415	0.089530	0.000432	0.008758	0.004960	0.001388	0.013878
16-Oct-2024	0.101731	9.059230	14.207500	2.226250	31.788595	1.309370	0.019484	0.199857	0.032974	0.002491	0.001418	0.089660	0.000433	0.008778	0.004973	0.001391	0.013913
17-Oct-2024	0.116280	9.135870	14.325500	2.245800	32.060472	1.320160	0.019652	0.201592	0.033282	0.002512	0.001432	0.090520	0.000437	0.008854	0.005015	0.001403	0.014031
18-Oct-2024	0.125264	9.201300	14.425200	2.262830	32.293980	1.329250	0.019798	0.203098	0.033531	0.002531	0.001443	0.091191	0.000440	0.008921	0.005050	0.001413	0.014131
19-Oct-2024	0.120296	9.269460	14.531800	2.279920	32.534552	1.339070	0.019947	0.204626	0.033791	0.002550	0.001454	0.091899	0.000443	0.008988	0.005088	0.001424	0.014236
20-Oct-2024	0.120742	9.344120	14.649400	2.297880	32.794937	1.349910	0.020105	0.206247	0.034050	0.002570	0.001465	0.092598	0.000447	0.009059	0.005129	0.001435	0.014350
21-Oct-2024	0.124984	9.345900	14.650700	2.298780	32.803088	1.349990	0.020112	0.206320	0.034070	0.002570	0.001466	0.092655	0.000447	0.009062	0.005129	0.001435	0.014353
22-Oct-2024	0.129540	9.367870	14.683300	2.304770	32.882614	1.352930	0.020162	0.206843	0.034164	0.002576	0.001470	0.092934	0.000448	0.009085	0.005141	0.001439	0.014387
23-Oct-2024	0.132205	9.357120	14.664700	2.302710	32.847288	1.351150	0.020142	0.206638	0.034136	0.002574	0.001469	0.092893	0.000447	0.009076	0.005135	0.001437	0.014370
24-Oct-2024	0.130983	9.379200	14.698900	2.308270	32.925318	1.354280	0.020190	0.207132	0.034219	0.002580	0.001473	0.093129	0.000448	0.009098	0.005147	0.001440	0.014404
25-Oct-2024	0.125279	9.365900	14.677700	2.305100	32.879054	1.352320	0.020160	0.206830	0.034165	0.002577	0.001471	0.093030	0.000448	0.009085	0.005140	0.001438	0.014383
26-Oct-2024	0.117976	9.394830	14.724200	2.311840	32.979048	1.356640	0.020220	0.207442	0.034260	0.002585	0.001475	0.093283	0.000449	0.009112	0.005156	0.001443	0.014427
27-Oct-2024	0.113778	9.424380	14.771300	2.318850	33.081701	1.361010	0.020282	0.208077	0.034362	0.002593	0.001479	0.093550	0.000450	0.009140	0.005172	0.001447	0.014473
28-Oct-2024	0.110032	9.458970	14.825800	2.327250	33.202664	1.366050	0.020356	0.208832	0.034484	0.002603	0.001484	0.093885	0.000452	0.009173	0.005191	0.001453	0.014526
29-Oct-2024	0.108170	9.488660	14.872300	2.334800	33.307890	1.370350	0.020421	0.209505	0.034600	0.002611	0.001489	0.094202	0.000453	0.009203	0.005207	0.001457	0.014572
30-Oct-2024	0.107516	9.521890	14.925300	2.342510	33.422616	1.375230	0.020493	0.210230	0.034720	0.002619	0.001494	0.094451	0.000455	0.009234	0.005226	0.001462	0.014623
31-Oct-2024	0.107308	9.559180	14.983600	2.351710	33.553614	1.380610	0.020573	0.211055	0.034857	0.002629	0.001500	0.094827	0.000457	0.009270	0.005246	0.001468	0.014681
1-Nov-2024	0.107348	9.599170	15.046100	2.361580	33.694114	1.386370	0.020659	0.211941	0.035003	0.002640	0.001506	0.095228	0.000459	0.009309	0.005268	0.001474	0.014742

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Nov-2024	0.107451	9.635490	15.102800	2.370590	33.821908	1.391580	0.020738	0.212747	0.035138	0.002650	0.001512	0.095596	0.000461	0.009345	0.005288	0.001480	0.014798
3-Nov-2024	0.108172	9.653490	15.131000	2.375040	33.885179	1.394180	0.020777	0.213149	0.035205	0.002655	0.001515	0.095773	0.000461	0.009362	0.005298	0.001483	0.014826
4-Nov-2024	0.107662	9.673010	15.161900	2.379750	33.953316	1.397030	0.020819	0.213576	0.035275	0.002660	0.001518	0.095953	0.000462	0.009381	0.005309	0.001486	0.014856
5-Nov-2024	0.106390	9.700740	15.205700	2.386800	34.051590	1.401090	0.020878	0.214180	0.035373	0.002670	0.001523	0.096354	0.000464	0.009407	0.005324	0.001490	0.014898
6-Nov-2024	0.104147	9.748400	15.272000	2.400780	34.228167	1.406920	0.020986	0.215323	0.035570	0.002685	0.001533	0.097074	0.000466	0.009460	0.005349	0.001497	0.014968
7-Nov-2024	0.101242	9.773550	15.318600	2.406000	34.312462	1.411450	0.021035	0.215810	0.035645	0.002692	0.001536	0.097310	0.000467	0.009481	0.005364	0.001501	0.015009
8-Nov-2024	0.100467	9.810730	15.375600	2.414310	34.439521	1.416650	0.021116	0.216631	0.035779	0.002700	0.001540	0.097485	0.000469	0.009516	0.005384	0.001507	0.015066
9-Nov-2024	0.101195	9.852020	15.440300	2.424450	34.584379	1.422620	0.021204	0.217539	0.035928	0.002711	0.001547	0.097843	0.000471	0.009556	0.005406	0.001513	0.015129
10-Nov-2024	0.100293	9.884280	15.491600	2.432170	34.696723	1.427360	0.021273	0.218241	0.036042	0.002720	0.001552	0.098136	0.000472	0.009587	0.005424	0.001518	0.015179
11-Nov-2024	0.099415	9.920740	15.549500	2.440880	34.823632	1.432730	0.021350	0.219031	0.036170	0.002730	0.001557	0.098468	0.000474	0.009621	0.005444	0.001524	0.015235
12-Nov-2024	0.099333	9.950720	15.597100	2.448060	34.928059	1.437140	0.021414	0.219682	0.036275	0.002738	0.001561	0.098743	0.000476	0.009650	0.005461	0.001528	0.015281
13-Nov-2024	0.099258	9.983700	15.648400	2.456290	35.044301	1.441850	0.021485	0.220415	0.036396	0.002747	0.001567	0.099235	0.000477	0.009682	0.005479	0.001533	0.015332
14-Nov-2024	0.099197	10.017500	15.700000	2.465050	35.164773	1.446560	0.021559	0.221181	0.036526	0.002757	0.001573	0.099483	0.000479	0.009716	0.005497	0.001538	0.015383
15-Nov-2024	0.099646	10.050100	15.750000	2.473420	35.280643	1.451130	0.021631	0.221918	0.036650	0.002766	0.001578	0.099851	0.000480	0.009749	0.005515	0.001543	0.015433
16-Nov-2024	0.100198	10.100900	15.829700	2.485900	35.458884	1.458470	0.021740	0.223037	0.036834	0.002780	0.001586	0.100356	0.000483	0.009798	0.005543	0.001551	0.015511
17-Nov-2024	0.100741	10.122600	15.864200	2.491040	35.534235	1.461680	0.021786	0.223505	0.036910	0.002786	0.001589	0.100548	0.000484	0.009818	0.005555	0.001554	0.015544
18-Nov-2024	0.100287	10.158200	15.920600	2.499650	35.658584	1.466890	0.021862	0.224284	0.037036	0.002796	0.001595	0.100882	0.000485	0.009852	0.005575	0.001560	0.015599
19-Nov-2024	0.099962	10.194200	15.977900	2.508220	35.783767	1.472190	0.021938	0.225063	0.037163	0.002806	0.001600	0.101205	0.000487	0.009886	0.005594	0.001565	0.015655
20-Nov-2024	0.099956	10.229600	16.034100	2.516750	35.907288	1.477390	0.022014	0.225838	0.037290	0.002815	0.001605	0.101529	0.000489	0.009920	0.005614	0.001571	0.015709
21-Nov-2024	0.099785	10.265200	16.090700	2.525220	36.031060	1.482640	0.022089	0.226607	0.037414	0.002825	0.001610	0.101852	0.000491	0.009954	0.005634	0.001576	0.015764
22-Nov-2024	0.099429	10.295600	16.138400	2.532680	36.137689	1.487040	0.022154	0.227277	0.037524	0.002833	0.001615	0.102191	0.000492	0.009983	0.005650	0.001581	0.015811
23-Nov-2024	0.099358	10.324300	16.182200	2.540090	36.239868	1.491040	0.022218	0.227928	0.037634	0.002841	0.001620	0.102627	0.000493	0.010012	0.005666	0.001585	0.015854
24-Nov-2024	0.099542	10.334700	16.192700	2.544500	36.283997	1.491820	0.022247	0.228249	0.037700	0.002846	0.001624	0.102828	0.000494	0.010027	0.005671	0.001587	0.015869
25-Nov-2024	0.099753	10.386300	16.274500	2.556910	36.463946	1.499380	0.022357	0.229374	0.037884	0.002860	0.001632	0.103303	0.000496	0.010077	0.005699	0.001595	0.015949
26-Nov-2024	0.099934	10.433500	16.351800	2.567450	36.625209	1.506610	0.022455	0.230365	0.038041	0.002872	0.001638	0.103629	0.000499	0.010120	0.005726	0.001602	0.016022
27-Nov-2024	0.099905	10.456700	16.388600	2.573070	36.706282	1.510010	0.022504	0.230873	0.038124	0.002878	0.001641	0.103845	0.000500	0.010142	0.005738	0.001606	0.016058
28-Nov-2024	0.099866	10.471800	16.411100	2.577110	36.760624	1.512060	0.022538	0.231221	0.038183	0.002883	0.001644	0.104043	0.000500	0.010157	0.005747	0.001608	0.016080
29-Nov-2024	0.099789	10.509000	16.469700	2.586170	36.890821	1.517470	0.022617	0.232037	0.038317	0.002893	0.001650	0.104401	0.000502	0.010193	0.005767	0.001614	0.016138
30-Nov-2024	0.099730	10.547200	16.529600	2.595530	37.024751	1.522990	0.022699	0.232877	0.038455	0.002903	0.001656	0.104776	0.000504	0.010230	0.005788	0.001620	0.016196
1-Dec-2024	0.099633	10.599100	16.610700	2.608430	37.207467	1.530450	0.022812	0.234030	0.038646	0.002918	0.001664	0.105307	0.000506	0.010281	0.005816	0.001628	0.016276
2-Dec-2024	0.099612	10.636900	16.669900	2.617730	37.340151	1.535900	0.022893	0.234864	0.038784	0.002928	0.001670	0.105684	0.000508	0.010317	0.005837	0.001633	0.016334
3-Dec-2024	0.099617	10.664000	16.712300	2.624360	37.435122	1.539820	0.022951	0.235460	0.038882	0.002936	0.001674	0.105950	0.000510	0.010344	0.005852	0.001638	0.016376
4-Dec-2024	0.099653	10.705200	16.776800	2.634580	37.580085	1.545750	0.023040	0.236374	0.039033	0.002947	0.001681	0.106367	0.000512	0.010384	0.005875	0.001644	0.016439
5-Dec-2024	0.099709	10.742900	16.836100	2.643800	37.712190	1.551220	0.023121	0.237204	0.039170	0.002957	0.001687	0.106734	0.000513	0.010420	0.005895	0.001650	0.016497
6-Dec-2024	0.099713	10.779700	16.894100	2.652710	37.840771	1.556570	0.023199	0.238008	0.039302	0.002967	0.001692	0.107083	0.000515	0.010456	0.005916	0.001655	0.016553
7-Dec-2024	0.099658	10.815100	16.949700	2.661440	37.965115	1.561700	0.023276	0.238792	0.039431	0.002977	0.001698	0.107435	0.000517	0.010490	0.005935	0.001661	0.016608
8-Dec-2024	0.099566	10.858300	17.016900	2.672210	38.117336	1.567870	0.023369	0.239752	0.039591	0.002989	0.001705	0.107883	0.000519	0.010532	0.005959	0.001667	0.016674
9-Dec-2024	0.099506	10.899900	17.081900	2.682500	38.263585	1.573850	0.023459	0.240673	0.039743	0.003001	0.001711	0.108304	0.000521	0.010573	0.005981	0.001674	0.016738
10-Dec-2024	0.099493	10.938600	17.142600	2.691990	38.399299	1.579460	0.023542	0.241525	0.039884	0.003011	0.001717	0.108684	0.000523	0.010610	0.006003	0.001680	0.016797
11-Dec-2024	0.099529	10.978100	17.204700	2.701640	38.537669	1.585180	0.023627	0.242393	0.040026	0.003022	0.001724	0.109069	0.000525	0.010648	0.006024	0.001686	0.016858
12-Dec-2024	0.099519	11.013500	17.260400	2.710310	38.661766	1.590320	0.023703	0.243174	0.040155	0.003032	0.001729	0.109414	0.000526	0.010682	0.006044	0.001691	0.016912
13-Dec-2024	0.099467	11.054300	17.324400	2.720340	38.804947	1.596210	0.023791	0.244074	0.040304	0.003043	0.001735	0.109817	0.000528	0.010722	0.006066	0.001697	0.016975
14-Dec-2024	0.099410	11.093100	17.385100	2.729920	38.941281	1.601810	0.023874	0.244933	0.040446	0.003054	0.001742	0.110208	0.000530	0.010760	0.006088	0.001703	0.017035
15-Dec-2024	0.099379	11.139100	17.456900	2.741280	39.102924	1.608420	0.023973	0.245949	0.040614	0.003066	0.001749	0.110671	0.000532	0.010804	0.006113	0.001711	0.017105
16-Dec-2024	0.099341	11.173600	17.511100	2.749770	39.224032	1.613410	0.024048	0.246711	0.040739	0.003076	0.001754	0.111013	0.000534	0.010838	0.006132	0.001716	0.017158
17-Dec-2024	0.099260	11.194300	17.543900	2.754770	39.296310	1.616440	0.024092	0.247164	0.040814	0.003082	0.001757	0.111206	0.000535	0.010858	0.006143	0.001719	0.017190
18-Dec-2024	0.099196	11.237600	17.611600	2.765440	39.448369	1.622680	0.024185	0.248120	0.040972	0.003094	0.001764	0.111640	0.000537	0.010900	0.006167	0.001726	0.017256
19-Dec-2024	0.099150	11.279900	17.677900	2.775890	39.597025	1.628780	0.024276	0.249056	0.041126	0.003105	0.001771	0.112064	0.000539	0.010941	0.006190	0.001732	0.017321
20-Dec-2024	0.099106	11.319300	17.739600	2.785590	39.735352	1.634470	0.024361	0.249926	0.041270	0.003116	0.001777	0.112457	0.000541	0.010979	0.006212	0.001738	0.017382
21-Dec-2024	0.099060	11.362900	17.807800	2.796320	39.888407	1.640750	0.024455	0.250888	0.041429	0.003128	0.001784	0.112892	0.000543	0.011021	0.006236	0.001745	0.017449
22-Dec-2024	0.099054	11.407100	17.877100	2.807210	40.043619	1.647130	0.024550	0.251865	0.041590	0.003140	0.001791	0.113332	0.000545	0.011064	0.006260	0.001752	0.017517
23-Dec-2024	0.099056	11.447900	17.941000	2.817250	40.186842	1.653020	0.024638	0.252765	0.041739	0.003152	0.001797	0.113738	0.000547	0.011104	0.006282	0.001758	0.017579

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24-Dec-2024	0.099021	11.490800	18.008200	2.827820	40.337490	1.659220	0.024730	0.253713	0.041895	0.003163	0.001804	0.114166	0.000549	0.011146	0.006306	0.001765	0.017645
25-Dec-2024	0.098982	11.535500	18.078200	2.838820	40.494404	1.665670	0.024826	0.254700	0.042058	0.003176	0.001811	0.114610	0.000551	0.011189	0.006330	0.001771	0.017714
26-Dec-2024	0.098936	11.579400	18.147000	2.849610	40.648456	1.672000	0.024921	0.255668	0.042218	0.003188	0.001818	0.115046	0.000553	0.011231	0.006354	0.001778	0.017781
27-Dec-2024	0.098892	11.622800	18.215100	2.860310	40.800888	1.678280	0.025014	0.256627	0.042376	0.003200	0.001825	0.115478	0.000555	0.011274	0.006378	0.001785	0.017848
28-Dec-2024	0.098872	11.666300	18.283200	2.871020	40.953611	1.684550	0.025108	0.257588	0.042535	0.003212	0.001832	0.115912	0.000557	0.011316	0.006402	0.001791	0.017915
29-Dec-2024	0.098840	11.714900	18.358800	2.883120	41.124793	1.691500	0.025213	0.258667	0.042714	0.003225	0.001839	0.116416	0.000560	0.011363	0.006429	0.001799	0.017989
30-Dec-2024	0.098820	11.756800	18.424700	2.893410	41.271792	1.697580	0.025303	0.259591	0.042866	0.003237	0.001846	0.116828	0.000562	0.011404	0.006452	0.001805	0.018053
31-Dec-2024	0.098799	11.807200	18.503800	2.905790	41.448622	1.704860	0.025411	0.260703	0.043049	0.003251	0.001854	0.117326	0.000564	0.011453	0.006479	0.001813	0.018131
1-Jan-2025	0.098742	11.871600	18.604500	2.921700	41.674946	1.714140	0.025550	0.262127	0.043285	0.003268	0.001864	0.117974	0.000567	0.011515	0.006515	0.001823	0.018230
2-Jan-2025	0.098725	11.917000	18.675700	2.932830	41.834143	1.720700	0.025648	0.263127	0.043450	0.003281	0.001871	0.118420	0.000569	0.011559	0.006540	0.001830	0.018299
3-Jan-2025	0.098700	11.965900	18.752400	2.944840	42.005703	1.727770	0.025753	0.264206	0.043628	0.003294	0.001879	0.118903	0.000572	0.011607	0.006566	0.001837	0.018374
4-Jan-2025	0.098635	12.040800	18.869600	2.963330	42.268871	1.738560	0.025914	0.265862	0.043902	0.003315	0.001891	0.119656	0.000575	0.011679	0.006608	0.001849	0.018489
5-Jan-2025	0.098548	12.091200	18.948500	2.975730	42.445783	1.745830	0.026023	0.266974	0.044085	0.003329	0.001899	0.120158	0.000578	0.011728	0.006635	0.001857	0.018567
6-Jan-2025	0.098471	12.134000	19.015700	2.986230	42.595893	1.752030	0.026115	0.267917	0.044240	0.003341	0.001905	0.120579	0.000580	0.011770	0.006659	0.001863	0.018633
7-Jan-2025	0.098396	12.204900	19.126700	3.003740	42.845037	1.762250	0.026267	0.269486	0.044500	0.003360	0.001916	0.121292	0.000583	0.011839	0.006698	0.001874	0.018741
8-Jan-2025	0.098323	12.249900	19.197100	3.014850	43.003153	1.768730	0.026364	0.270481	0.044664	0.003373	0.001924	0.121744	0.000585	0.011882	0.006722	0.001881	0.018810
9-Jan-2025	0.098243	12.283900	19.250500	3.023170	43.122312	1.773660	0.026437	0.271229	0.044787	0.003382	0.001929	0.122076	0.000587	0.011915	0.006741	0.001886	0.018863
10-Jan-2025	0.098200	12.344200	19.345000	3.038040	43.334116	1.782370	0.026567	0.272562	0.045007	0.003399	0.001938	0.122679	0.000590	0.011974	0.006774	0.001896	0.018955
11-Jan-2025	0.098182	12.397700	19.428600	3.051260	43.522146	1.790060	0.026682	0.273745	0.045203	0.003414	0.001947	0.123219	0.000592	0.012026	0.006803	0.001904	0.019037
12-Jan-2025	0.098175	12.427500	19.475500	3.058540	43.626535	1.794390	0.026746	0.274400	0.045311	0.003422	0.001951	0.123508	0.000594	0.012055	0.006820	0.001908	0.019083
13-Jan-2025	0.098167	12.480700	19.559000	3.071640	43.813321	1.802080	0.026861	0.275575	0.045505	0.003436	0.001960	0.124036	0.000596	0.012106	0.006849	0.001916	0.019165
14-Jan-2025	0.098154	12.544800	19.659100	3.087490	44.038649	1.811290	0.026999	0.276994	0.045739	0.003454	0.001970	0.124685	0.000599	0.012169	0.006884	0.001926	0.019263
15-Jan-2025	0.098146	12.561100	19.684600	3.091470	44.095740	1.813650	0.027034	0.277352	0.045798	0.003459	0.001972	0.124844	0.000600	0.012184	0.006893	0.001929	0.019288
16-Jan-2025	0.098152	12.594900	19.737700	3.099750	44.214236	1.818550	0.027107	0.278097	0.045921	0.003468	0.001978	0.125175	0.000602	0.012217	0.006912	0.001934	0.019340
17-Jan-2025	0.098147	12.644300	19.814900	3.112020	44.388115	1.825650	0.027213	0.279193	0.046103	0.003482	0.001986	0.125679	0.000604	0.012265	0.006939	0.001942	0.019416
18-Jan-2025	0.098135	12.687200	19.882100	3.122610	44.538846	1.831830	0.027306	0.280142	0.046260	0.003493	0.001992	0.126109	0.000606	0.012307	0.006962	0.001948	0.019482
19-Jan-2025	0.098099	12.734700	19.957100	3.134070	44.704646	1.838760	0.027407	0.281179	0.046430	0.003506	0.002000	0.126552	0.000609	0.012352	0.006988	0.001955	0.019555
20-Jan-2025	0.098064	12.824200	20.097300	3.156100	45.018847	1.851690	0.027600	0.283156	0.046756	0.003531	0.002014	0.127442	0.000613	0.012439	0.007037	0.001969	0.019692
21-Jan-2025	0.098058	12.919400	20.246500	3.179560	45.353170	1.865430	0.027805	0.285259	0.047103	0.003557	0.002029	0.128392	0.000617	0.012532	0.007090	0.001984	0.019839
22-Jan-2025	0.098032	13.017900	20.400700	3.203850	45.699151	1.879630	0.028017	0.287436	0.047463	0.003584	0.002044	0.129377	0.000622	0.012627	0.007144	0.001999	0.019990
23-Jan-2025	0.098020	13.104900	20.537000	3.225260	46.004556	1.892190	0.028204	0.289357	0.047780	0.003608	0.002058	0.130243	0.000626	0.012712	0.007191	0.002012	0.020123
24-Jan-2025	0.098010	13.214000	20.708000	3.252100	46.387506	1.907940	0.028439	0.291765	0.048178	0.003638	0.002075	0.131326	0.000631	0.012817	0.007251	0.002029	0.020291
25-Jan-2025	0.097981	13.290400	20.827600	3.270920	46.655777	1.918960	0.028603	0.293452	0.048457	0.003659	0.002087	0.132087	0.000635	0.012892	0.007293	0.002041	0.020408
26-Jan-2025	0.097920	13.358300	20.934000	3.287640	46.894177	1.928770	0.028750	0.294952	0.048704	0.003678	0.002098	0.132764	0.000638	0.012957	0.007330	0.002051	0.020512
27-Jan-2025	0.097848	13.420100	21.030900	3.302860	47.111167	1.937690	0.028883	0.296317	0.048930	0.003695	0.002107	0.133380	0.000641	0.013017	0.007364	0.002061	0.020607
28-Jan-2025	0.097768	13.480800	21.126100	3.317820	47.324340	1.946460	0.029013	0.297659	0.049151	0.003712	0.002117	0.133984	0.000644	0.013076	0.007398	0.002070	0.020701
29-Jan-2025	0.097706	13.532100	21.206400	3.330430	47.504364	1.953860	0.029124	0.298790	0.049338	0.003726	0.002125	0.134494	0.000647	0.013126	0.007426	0.002078	0.020779
30-Jan-2025	0.097685	13.586400	21.291400	3.343810	47.695050	1.961690	0.029241	0.299990	0.049536	0.003741	0.002133	0.135036	0.000649	0.013179	0.007456	0.002086	0.020863
31-Jan-2025	0.097682	13.647500	21.387100	3.358850	47.909552	1.970510	0.029372	0.301339	0.049759	0.003758	0.002143	0.135645	0.000652	0.013238	0.007489	0.002096	0.020956
1-Feb-2025	0.097673	13.710200	21.485400	3.374290	48.129696	1.979560	0.029507	0.302723	0.049987	0.003775	0.002153	0.136268	0.000655	0.013299	0.007524	0.002105	0.021053
2-Feb-2025	0.097655	13.767000	21.574500	3.388280	48.329136	1.987770	0.029629	0.303978	0.050194	0.003791	0.002162	0.136833	0.000658	0.013354	0.007555	0.002114	0.021140
3-Feb-2025	0.097640	13.815500	21.650400	3.400190	48.499286	1.994770	0.029733	0.305047	0.050371	0.003804	0.002169	0.137314	0.000660	0.013401	0.007581	0.002121	0.021214
4-Feb-2025	0.097629	13.864800	21.727800	3.412330	48.672381	2.001900	0.029840	0.306137	0.050551	0.003818	0.002177	0.137803	0.000663	0.013449	0.007608	0.002129	0.021290
5-Feb-2025	0.097615	13.916900	21.809400	3.425130	48.855185	2.009420	0.029952	0.307285	0.050740	0.003832	0.002185	0.138320	0.000665	0.013499	0.007637	0.002137	0.021370
6-Feb-2025	0.097599	13.773500	21.584700	3.389830	48.351749	1.988710	0.029643	0.304118	0.050217	0.003793	0.002163	0.136894	0.000658	0.013360	0.007558	0.002115	0.021150
7-Feb-2025	0.097599	13.815400	21.650400	3.400140	48.498830	1.994770	0.029733	0.305043	0.050370	0.003804	0.002169	0.137310	0.000660	0.013401	0.007581	0.002121	0.021214
8-Feb-2025	0.097603	13.861300	21.722400	3.411440	48.659976	2.001400	0.029832	0.306057	0.050537	0.003817	0.002177	0.137766	0.000662	0.013445	0.007607	0.002128	0.021285
9-Feb-2025	0.097616	13.908700	21.796600	3.423100	48.826350	2.008250	0.029934	0.307103	0.050710	0.003830	0.002184	0.138237	0.000665	0.013491	0.007633	0.002136	0.021357
10-Feb-2025	0.097615	13.954600	21.868500	3.434380	48.987413	2.014870	0.030033	0.308115	0.050877	0.003842	0.002191	0.138692	0.000667	0.013536	0.007658	0.002143	0.021428
11-Feb-2025	0.097612	14.011800	21.958200	3.448460	49.188223	2.023130	0.030156	0.309379	0.051085	0.003858	0.002200	0.139261	0.000670	0.013591	0.007689	0.002152	0.021516
12-Feb-2025	0.097609	14.028100	21.983900	3.452400	49.245149	2.025510	0.030190	0.309734	0.051143	0.003863	0.002203	0.139415	0.000670	0.013607	0.007698	0.002154	0.021541
13-Feb-2025	0.097606	14.092100	22.084300	3.468150	49.469815	2.034760	0.030328	0.311147	0.051376	0.003880	0.002213	0.140051	0.000673	0.013669	0.007733	0.002164	0.021639

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Feb-2025	0.097599	14.153700	22.180900	3.483310	49.686059	2.043660	0.030461	0.312507	0.051601	0.003897	0.002222	0.140663	0.000676	0.013729	0.007767	0.002173	0.021734
15-Feb-2025	0.097595	14.237800	22.312600	3.503990	49.981217	2.055800	0.030642	0.314363	0.051907	0.003920	0.002235	0.141498	0.000680	0.013810	0.007813	0.002186	0.021863
16-Feb-2025	0.097596	14.317300	22.437200	3.523560	50.260318	2.067280	0.030813	0.316119	0.052197	0.003942	0.002248	0.142288	0.000684	0.013887	0.007857	0.002198	0.021985
17-Feb-2025	0.097594	14.392200	22.554600	3.541990	50.523238	2.078090	0.030974	0.317772	0.052470	0.003963	0.002260	0.143032	0.000688	0.013960	0.007898	0.002210	0.022100
18-Feb-2025	0.097582	14.491400	22.710100	3.566380	50.871379	2.092420	0.031187	0.319961	0.052831	0.003990	0.002275	0.144016	0.000692	0.014056	0.007952	0.002225	0.022252
19-Feb-2025	0.097570	14.598600	22.878200	3.592760	51.247690	2.107910	0.031418	0.322328	0.053222	0.004020	0.002292	0.145080	0.000698	0.014160	0.008011	0.002242	0.022417
20-Feb-2025	0.097563	14.705800	23.046200	3.619140	51.624001	2.123390	0.031649	0.324695	0.053613	0.004049	0.002309	0.146145	0.000703	0.014264	0.008070	0.002258	0.022581
21-Feb-2025	0.097558	14.812300	23.213200	3.645360	51.997906	2.138770	0.031878	0.327047	0.054001	0.004078	0.002326	0.147203	0.000708	0.014368	0.008129	0.002275	0.022745
22-Feb-2025	0.097552	14.914500	23.373400	3.670510	52.356667	2.153530	0.032098	0.329303	0.054374	0.004107	0.002342	0.148218	0.000713	0.014467	0.008185	0.002290	0.022902
23-Feb-2025	0.097547	15.017800	23.535100	3.695900	52.719163	2.168440	0.032320	0.331582	0.054750	0.004135	0.002358	0.149244	0.000718	0.014567	0.008241	0.002306	0.023061
24-Feb-2025	0.097542	15.130100	23.711200	3.723550	53.113439	2.184660	0.032562	0.334063	0.055160	0.004166	0.002376	0.150360	0.000723	0.014676	0.008303	0.002323	0.023233
25-Feb-2025	0.097538	14.926700	23.392400	3.673490	52.399402	2.155290	0.032124	0.329571	0.054418	0.004110	0.002344	0.148338	0.000713	0.014478	0.008191	0.002292	0.022921
26-Feb-2025	0.097534	15.008700	23.521000	3.693680	52.687298	2.167140	0.032301	0.331383	0.054717	0.004133	0.002356	0.149154	0.000717	0.014558	0.008236	0.002305	0.023047
27-Feb-2025	0.097530	15.090100	23.648400	3.713690	52.972955	2.178880	0.032476	0.333178	0.055013	0.004155	0.002369	0.149961	0.000721	0.014637	0.008281	0.002317	0.023172
28-Feb-2025	0.097526	15.170000	23.773800	3.733370	53.253508	2.190430	0.032648	0.334944	0.055305	0.004177	0.002382	0.150756	0.000725	0.014714	0.008325	0.002329	0.023294
1-Mar-2025	0.097523	15.255900	23.908300	3.754490	53.554972	2.202820	0.032833	0.336839	0.055618	0.004201	0.002395	0.151609	0.000729	0.014798	0.008372	0.002343	0.023426
2-Mar-2025	0.097520	15.348500	24.053500	3.777290	53.880085	2.216200	0.033032	0.338885	0.055956	0.004226	0.002410	0.152529	0.000733	0.014888	0.008423	0.002357	0.023568
3-Mar-2025	0.097518	15.444100	24.203300	3.800830	54.215736	2.230000	0.033238	0.340996	0.056304	0.004252	0.002425	0.153480	0.000738	0.014980	0.008475	0.002372	0.023715
4-Mar-2025	0.097516	15.540200	24.353900	3.824480	54.553088	2.243880	0.033444	0.343118	0.056655	0.004279	0.002440	0.154435	0.000743	0.015073	0.008528	0.002386	0.023863
5-Mar-2025	0.097516	15.632600	24.498700	3.847210	54.877413	2.257220	0.033643	0.345157	0.056991	0.004304	0.002454	0.155353	0.000747	0.015163	0.008579	0.002400	0.024005
6-Mar-2025	0.097515	15.755500	24.691300	3.877450	55.308823	2.274970	0.033908	0.347870	0.057439	0.004338	0.002474	0.156574	0.000753	0.015282	0.008646	0.002419	0.024193
7-Mar-2025	0.097514	15.895600	24.910900	3.911920	55.800600	2.295190	0.034209	0.350963	0.057950	0.004377	0.002496	0.157966	0.000760	0.015418	0.008723	0.002441	0.024408
8-Mar-2025	0.097514	16.033400	25.126900	3.945850	56.284410	2.315100	0.034506	0.354007	0.058453	0.004415	0.002517	0.159335	0.000766	0.015552	0.008799	0.002462	0.024620
9-Mar-2025	0.097514	16.169600	25.340300	3.979400	56.762660	2.334750	0.034799	0.357016	0.058950	0.004452	0.002539	0.160692	0.000773	0.015684	0.008873	0.002483	0.024829
10-Mar-2025	0.097514	16.332700	25.595800	4.019530	57.335176	2.358300	0.035150	0.360617	0.059544	0.004497	0.002564	0.162313	0.000780	0.015842	0.008963	0.002508	0.025080
11-Mar-2025	0.097514	16.502600	25.862000	4.061340	57.931590	2.382830	0.035516	0.364367	0.060164	0.004544	0.002591	0.164001	0.000789	0.016007	0.009056	0.002534	0.025341
12-Mar-2025	0.097515	16.678400	26.137600	4.104610	58.548749	2.408220	0.035894	0.368249	0.060805	0.004592	0.002619	0.165748	0.000797	0.016178	0.009153	0.002561	0.025611
13-Mar-2025	0.097515	16.860400	26.422800	4.149390	59.187607	2.434490	0.036286	0.372267	0.061468	0.004642	0.002647	0.167557	0.000806	0.016354	0.009252	0.002589	0.025890
14-Mar-2025	0.097515	17.046500	26.714500	4.195200	59.840944	2.461370	0.036686	0.376377	0.062147	0.004694	0.002676	0.169406	0.000815	0.016535	0.009355	0.002618	0.026176
15-Mar-2025	0.097515	17.234000	27.008300	4.241340	60.499136	2.488440	0.037090	0.380517	0.062830	0.004745	0.002706	0.171270	0.000824	0.016716	0.009457	0.002646	0.026464
16-Mar-2025	0.097516	17.423200	27.304800	4.287900	61.163303	2.515760	0.037497	0.384694	0.063520	0.004797	0.002736	0.173150	0.000833	0.016900	0.009561	0.002675	0.026754
17-Mar-2025	0.097516	17.614100	27.603900	4.334880	61.833444	2.543320	0.037908	0.388909	0.064216	0.004850	0.002766	0.175047	0.000842	0.017085	0.009666	0.002705	0.027047
18-Mar-2025	0.097516	17.807300	27.906700	4.382420	62.511634	2.571210	0.038324	0.393174	0.064920	0.004903	0.002796	0.176967	0.000851	0.017272	0.009772	0.002734	0.027344
19-Mar-2025	0.097516	18.003100	28.213600	4.430630	63.199075	2.599490	0.038745	0.397498	0.065634	0.004957	0.002827	0.178913	0.000860	0.017462	0.009880	0.002764	0.027645
20-Mar-2025	0.097516	18.201500	28.524400	4.479440	63.895479	2.628130	0.039172	0.401878	0.066357	0.005012	0.002858	0.180884	0.000870	0.017655	0.009988	0.002795	0.027949
21-Mar-2025	0.097516	18.401800	28.838300	4.528730	64.598605	2.657050	0.039603	0.406300	0.067087	0.005067	0.002889	0.182875	0.000879	0.017849	0.010098	0.002826	0.028257
22-Mar-2025	0.097516	18.603500	29.154400	4.578370	65.306667	2.686180	0.040037	0.410754	0.067823	0.005122	0.002921	0.184879	0.000889	0.018045	0.010209	0.002857	0.028567
23-Mar-2025	0.097517	18.806800	29.473100	4.628410	66.020372	2.715530	0.040475	0.415243	0.068564	0.005178	0.002953	0.186900	0.000899	0.018242	0.010321	0.002888	0.028879
24-Mar-2025	0.097517	19.011500	29.793900	4.678790	66.738973	2.745090	0.040915	0.419763	0.069310	0.005235	0.002985	0.188934	0.000908	0.018441	0.010433	0.002919	0.029193
25-Mar-2025	0.097517	19.217700	30.117100	4.729540	67.462843	2.774870	0.041359	0.424316	0.070062	0.005291	0.003017	0.190984	0.000918	0.018641	0.010546	0.002951	0.029510
26-Mar-2025	0.097517	19.425400	30.442500	4.780650	68.191941	2.804850	0.041806	0.428901	0.070819	0.005349	0.003050	0.193048	0.000928	0.018842	0.010660	0.002983	0.029829
27-Mar-2025	0.097517	19.634600	30.770400	4.832140	68.926349	2.835060	0.042256	0.433520	0.071582	0.005406	0.003083	0.195127	0.000938	0.019045	0.010775	0.003015	0.030150
28-Mar-2025	0.097517	19.845200	31.100500	4.883980	69.665694	2.865480	0.042710	0.438171	0.072350	0.005464	0.003116	0.197220	0.000948	0.019249	0.010890	0.003047	0.030473
29-Mar-2025	0.097518	20.057200	31.432700	4.936150	70.409894	2.896090	0.043166	0.442852	0.073123	0.005523	0.003149	0.199327	0.000958	0.019455	0.011007	0.003080	0.030799
30-Mar-2025	0.097518	20.270500	31.766900	4.988640	71.158658	2.926880	0.043625	0.447561	0.073900	0.005581	0.003183	0.201447	0.000969	0.019662	0.011124	0.003113	0.031126
31-Mar-2025	0.097517	20.482900	32.099800	5.040920	71.904310	2.957550	0.044082	0.452251	0.074675	0.005640	0.003216	0.203558	0.000979	0.019868	0.011240	0.003145	0.031453
1-Apr-2025	0.097517	20.643100	32.350900	5.080340	72.466661	2.980680	0.044427	0.455788	0.075259	0.005684	0.003241	0.205150	0.000986	0.020023	0.011328	0.003170	0.031699
2-Apr-2025	0.097518	20.498000	32.123400	5.044630	71.957292	2.959730	0.044114	0.452584	0.074730	0.005644	0.003218	0.203708	0.000980	0.019882	0.011249	0.003148	0.031476
3-Apr-2025	0.097518	20.327300	31.856000	5.002620	71.358057	2.935090	0.043747	0.448816	0.074108	0.005597	0.003192	0.202012	0.000971	0.019717	0.011155	0.003121	0.031214
4-Apr-2025	0.097518	20.175600	31.618200	4.965290	70.825537	2.913180	0.043421	0.445466	0.073554	0.005555	0.003168	0.200504	0.000964	0.019570	0.011072	0.003098	0.030981
5-Apr-2025	0.097518	20.039100	31.404300	4.931700	70.346373	2.893470	0.043127	0.442453	0.073057	0.005518	0.003146	0.199148	0.000958	0.019437	0.010997	0.003077	0.030771
6-Apr-2025	0.097518	19.916000	31.211400	4.901410	69.914258	2.875700	0.042862	0.439735	0.072608	0.005484	0.003127	0.197924	0.000952	0.019318	0.010929	0.003058	0.030582

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Apr-2025	0.097518	19.804600	31.036800	4.873980	69.523136	2.859610	0.042622	0.437275	0.072202	0.005453	0.003109	0.196817	0.000946	0.019210	0.010868	0.003041	0.030411
8-Apr-2025	0.097518	19.703000	30.877500	4.848970	69.166449	2.844930	0.042403	0.435030	0.071831	0.005425	0.003094	0.195807	0.000942	0.019111	0.010812	0.003025	0.030255
9-Apr-2025	0.097518	19.608900	30.730100	4.825820	68.836150	2.831350	0.042201	0.432953	0.071488	0.005399	0.003079	0.194872	0.000937	0.019020	0.010761	0.003011	0.030110
10-Apr-2025	0.097518	19.522600	30.594800	4.804580	68.533193	2.818890	0.042015	0.431047	0.071174	0.005375	0.003065	0.194014	0.000933	0.018936	0.010713	0.002998	0.029978
11-Apr-2025	0.097518	19.454100	30.487500	4.787670	68.292513	2.809010	0.041868	0.429532	0.070923	0.005357	0.003054	0.193329	0.000930	0.018870	0.010676	0.002987	0.029873
12-Apr-2025	0.097518	19.410500	30.419300	4.776960	68.139540	2.802720	0.041774	0.428571	0.070764	0.005345	0.003048	0.192897	0.000928	0.018828	0.010652	0.002981	0.029806
13-Apr-2025	0.097518	19.367600	30.352000	4.766400	67.988932	2.796520	0.041681	0.427623	0.070608	0.005333	0.003041	0.192470	0.000925	0.018786	0.010628	0.002974	0.029740
14-Apr-2025	0.097518	19.327000	30.288500	4.756410	67.846415	2.790670	0.041594	0.426728	0.070460	0.005322	0.003034	0.192067	0.000924	0.018747	0.010606	0.002968	0.029678
15-Apr-2025	0.097518	19.289300	30.229300	4.747130	67.714063	2.785220	0.041513	0.425895	0.070323	0.005311	0.003029	0.191692	0.000922	0.018710	0.010585	0.002962	0.029620
16-Apr-2025	0.097518	19.254100	30.174200	4.738470	67.590507	2.780140	0.041437	0.425118	0.070194	0.005301	0.003023	0.191342	0.000920	0.018676	0.010566	0.002957	0.029566
17-Apr-2025	0.097518	19.221600	30.123200	4.730470	67.476411	2.775440	0.041367	0.424400	0.070076	0.005293	0.003018	0.191019	0.000919	0.018644	0.010548	0.002952	0.029516
18-Apr-2025	0.097518	19.191100	30.075400	4.722960	67.369326	2.771040	0.041302	0.423726	0.069964	0.005284	0.003013	0.190716	0.000917	0.018615	0.010531	0.002947	0.029469
19-Apr-2025	0.097518	19.162500	30.030600	4.715920	67.268921	2.766910	0.041240	0.423095	0.069860	0.005276	0.003009	0.190432	0.000916	0.018587	0.010516	0.002942	0.029425
20-Apr-2025	0.097518	19.136200	29.989400	4.709450	67.176607	2.763110	0.041183	0.422514	0.069764	0.005269	0.003004	0.190171	0.000914	0.018561	0.010501	0.002938	0.029385
21-Apr-2025	0.097518	19.112000	29.951400	4.703490	67.091636	2.759610	0.041131	0.421979	0.069676	0.005262	0.003001	0.189930	0.000913	0.018538	0.010488	0.002935	0.029347
22-Apr-2025	0.097518	19.089200	29.915800	4.697890	67.011643	2.756330	0.041082	0.421477	0.069593	0.005256	0.002997	0.189704	0.000912	0.018516	0.010476	0.002931	0.029312
23-Apr-2025	0.097518	19.067900	29.882400	4.692650	66.936879	2.753250	0.041037	0.421007	0.069515	0.005250	0.002994	0.189492	0.000911	0.018495	0.010464	0.002928	0.029280
24-Apr-2025	0.097518	19.048100	29.851400	4.687780	66.867384	2.750390	0.040994	0.420570	0.069443	0.005245	0.002991	0.189295	0.000910	0.018476	0.010453	0.002925	0.029249
25-Apr-2025	0.097518	18.809900	29.478000	4.629200	66.031366	2.715990	0.040481	0.415313	0.068576	0.005179	0.002953	0.186932	0.000899	0.018245	0.010322	0.002888	0.028884
26-Apr-2025	0.097518	18.783400	29.436300	4.622650	65.938223	2.712150	0.040424	0.414726	0.068479	0.005172	0.002949	0.186668	0.000898	0.018219	0.010308	0.002884	0.028843
27-Apr-2025	0.097518	18.758500	29.397300	4.616530	65.850845	2.708560	0.040371	0.414176	0.068388	0.005165	0.002945	0.186421	0.000896	0.018195	0.010294	0.002880	0.028805
28-Apr-2025	0.097518	18.735200	29.360800	4.610800	65.769069	2.705190	0.040321	0.413662	0.068303	0.005159	0.002942	0.186189	0.000895	0.018173	0.010281	0.002877	0.028769
29-Apr-2025	0.097518	18.713400	29.326600	4.605420	65.692479	2.702040	0.040274	0.413180	0.068224	0.005153	0.002938	0.185972	0.000894	0.018151	0.010269	0.002874	0.028735
30-Apr-2025	0.097538	18.688400	29.287600	4.599300	65.604852	2.698450	0.040220	0.412630	0.068133	0.005146	0.002934	0.185725	0.000893	0.018127	0.010256	0.002870	0.028697
1-May-2025	0.098250	18.512600	29.012000	4.556010	64.987611	2.673050	0.039841	0.408747	0.067492	0.005097	0.002907	0.183977	0.000885	0.017957	0.010159	0.002843	0.028427
2-May-2025	0.103265	18.411100	28.853100	4.531010	64.631216	2.658420	0.039623	0.406505	0.067121	0.005069	0.002891	0.182965	0.000880	0.017858	0.010103	0.002827	0.028271
3-May-2025	0.108786	18.521000	29.025300	4.558070	65.017069	2.674280	0.039860	0.408933	0.067522	0.005100	0.002908	0.184058	0.000885	0.017965	0.010164	0.002844	0.028440
4-May-2025	0.113539	18.261600	28.618700	4.494210	64.106372	2.636820	0.039301	0.403204	0.066576	0.005028	0.002867	0.181480	0.000873	0.017713	0.010021	0.002804	0.028042
5-May-2025	0.118300	17.998700	28.206700	4.429510	63.183476	2.598860	0.038735	0.397399	0.065617	0.004956	0.002826	0.178867	0.000860	0.017458	0.009877	0.002764	0.027638
6-May-2025	0.122533	17.708900	27.752500	4.358190	62.166150	2.557010	0.038112	0.391000	0.064561	0.004876	0.002780	0.175987	0.000846	0.017177	0.009718	0.002719	0.027193
7-May-2025	0.126431	17.419600	27.299200	4.286990	61.150566	2.515240	0.037489	0.384613	0.063506	0.004796	0.002735	0.173112	0.000832	0.016896	0.009559	0.002675	0.026749
8-May-2025	0.129893	17.172700	26.912300	4.226240	60.283888	2.479600	0.036958	0.379162	0.062606	0.004728	0.002696	0.170659	0.000821	0.016657	0.009424	0.002637	0.026370
9-May-2025	0.133127	16.989100	26.624600	4.181070	59.639429	2.453090	0.036563	0.375110	0.061937	0.004678	0.002667	0.168835	0.000812	0.016479	0.009323	0.002609	0.026088
10-May-2025	0.136213	16.926400	26.526200	4.165620	59.419244	2.444020	0.036428	0.373724	0.061708	0.004661	0.002658	0.168211	0.000809	0.016418	0.009289	0.002599	0.025991
11-May-2025	0.139773	16.803300	26.333300	4.135330	58.987129	2.426250	0.036163	0.371005	0.061260	0.004627	0.002638	0.166988	0.000803	0.016299	0.009221	0.002580	0.025802
12-May-2025	0.144882	16.606800	26.025400	4.086970	58.297322	2.397880	0.035740	0.366668	0.060543	0.004573	0.002607	0.165035	0.000794	0.016108	0.009113	0.002550	0.025501
13-May-2025	0.149142	16.446500	25.774100	4.047510	57.734557	2.374730	0.035395	0.363127	0.059959	0.004528	0.002582	0.163442	0.000786	0.015953	0.009025	0.002525	0.025254
14-May-2025	0.159427	16.043800	25.143200	3.948430	56.321003	2.316600	0.034528	0.354238	0.058491	0.004418	0.002519	0.159440	0.000767	0.015562	0.008804	0.002464	0.024636
15-May-2025	0.169284	15.703800	24.610300	3.864740	55.127388	2.267500	0.033797	0.346730	0.057251	0.004324	0.002466	0.156061	0.000750	0.015232	0.008618	0.002411	0.024114
16-May-2025	0.184216	15.515100	24.314600	3.818300	54.464964	2.240260	0.033391	0.342564	0.056563	0.004272	0.002436	0.154185	0.000741	0.015049	0.008514	0.002382	0.023824
17-May-2025	0.186135	15.344300	24.047000	3.776270	53.865397	2.215600	0.033023	0.338792	0.055941	0.004225	0.002409	0.152488	0.000733	0.014883	0.008420	0.002356	0.023562
18-May-2025	0.189145	15.183300	23.794600	3.736640	53.300184	2.192340	0.032676	0.335237	0.055354	0.004181	0.002384	0.150888	0.000726	0.014727	0.008332	0.002331	0.023315
19-May-2025	0.200224	14.831100	23.242600	3.649970	52.063833	2.141480	0.031918	0.327459	0.054070	0.004084	0.002329	0.147388	0.000709	0.014386	0.008139	0.002277	0.022774
20-May-2025	0.203142	14.417100	22.593700	3.548130	50.610698	2.081670	0.031027	0.318313	0.052563	0.003970	0.002264	0.143277	0.000689	0.013984	0.007912	0.002214	0.022138
21-May-2025	0.215904	14.060300	22.034300	3.460350	49.358290	2.030110	0.030258	0.310430	0.051264	0.003871	0.002208	0.139734	0.000672	0.013638	0.007716	0.002159	0.021590
22-May-2025	0.237124	13.830300	21.673900	3.403750	48.550902	1.996900	0.029763	0.305352	0.050426	0.003808	0.002172	0.137448	0.000661	0.013415	0.007590	0.002124	0.021237
23-May-2025	0.259804	13.538200	21.216100	3.331920	47.525732	1.954700	0.029135	0.298901	0.049363	0.003728	0.002126	0.134549	0.000647	0.013132	0.007429	0.002079	0.020788
24-May-2025	0.280548	13.158500	20.620800	3.238490	46.192876	1.899850	0.028317	0.290513	0.047980	0.003623	0.002066	0.130777	0.000629	0.012764	0.007221	0.002021	0.020205
25-May-2025	0.297075	12.905100	20.223600	3.176150	45.303420	1.863240	0.027772	0.284916	0.047057	0.003553	0.002027	0.128261	0.000617	0.012518	0.007082	0.001982	0.019816
26-May-2025	0.320564	12.486300	19.567200	3.073150	43.833523	1.802740	0.026870	0.275667	0.045533	0.003438	0.001961	0.124103	0.000597	0.012112	0.006852	0.001917	0.019173
27-May-2025	0.334670	12.416300	19.457500	3.055910	43.587738	1.792630	0.026719	0.274121	0.045277	0.003419	0.001950	0.123407	0.000593	0.012044	0.006814	0.001907	0.019065
28-May-2025	0.359666	12.266400	19.222500	3.019030	43.061566	1.770970	0.026397	0.270810	0.044731	0.003377	0.001926	0.121918	0.000586	0.011899	0.006731	0.001883	0.018835

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
29-May-2025	0.380856	12.234400	19.172300	3.011200	42.949418	1.766330	0.026328	0.270102	0.044616	0.003368	0.001921	0.121604	0.000585	0.011868	0.006714	0.001879	0.018786
30-May-2025	0.397531	12.134400	19.015300	2.986640	42.598580	1.751860	0.026112	0.267895	0.044252	0.003341	0.001906	0.120617	0.000580	0.011771	0.006659	0.001863	0.018632
31-May-2025	0.417685	12.046000	18.876500	2.964940	42.288485	1.739060	0.025922	0.265942	0.043932	0.003317	0.001892	0.119746	0.000576	0.011686	0.006610	0.001850	0.018496
1-Jun-2025	0.527457	11.903800	18.653500	2.930040	41.789693	1.718490	0.025616	0.262801	0.043416	0.003277	0.001870	0.118340	0.000569	0.011548	0.006532	0.001828	0.018278
2-Jun-2025	0.702683	11.657900	18.253200	2.873800	40.944085	1.680310	0.025085	0.257397	0.042749	0.003205	0.001839	0.116223	0.000556	0.011329	0.006395	0.001791	0.017907
3-Jun-2025	0.945995	11.578000	18.120000	2.856460	40.673168	1.667530	0.024913	0.255664	0.045465	0.003181	0.001875	0.115609	0.000552	0.011262	0.006350	0.001779	0.017788
4-Jun-2025	1.165456	11.429400	17.861900	2.832020	40.201470	1.642320	0.024594	0.252466	0.043440	0.003134	0.001852	0.115450	0.000544	0.011173	0.006265	0.001757	0.017572
5-Jun-2025	1.119369	11.148800	17.364500	2.774810	39.265221	1.592260	0.023990	0.246465	0.042763	0.003041	0.001821	0.113184	0.000527	0.010952	0.006103	0.001717	0.017171
6-Jun-2025	1.066955	11.016400	17.141400	2.746700	38.818861	1.570250	0.023704	0.243565	0.042281	0.003000	0.001799	0.112210	0.000520	0.010843	0.006028	0.001697	0.016975
7-Jun-2025	1.015459	10.822500	16.820100	2.704010	38.158896	1.538980	0.023284	0.239315	0.042116	0.002942	0.001787	0.110665	0.000510	0.010678	0.005919	0.001669	0.016686
8-Jun-2025	1.074779	10.584200	16.416900	2.654000	37.357919	1.499200	0.022769	0.234110	0.041888	0.002868	0.001772	0.108953	0.000497	0.010485	0.005784	0.001633	0.016335
9-Jun-2025	1.189061	10.362300	16.040200	2.607760	36.613419	1.461940	0.022286	0.229244	0.041616	0.002798	0.001757	0.107497	0.000485	0.010307	0.005658	0.001601	0.016008
10-Jun-2025	1.431862	10.217100	15.801500	2.575940	36.119820	1.438660	0.021959	0.225914	0.041257	0.002755	0.001743	0.106736	0.000477	0.010183	0.005577	0.001579	0.015786
11-Jun-2025	1.676995	10.056100	15.532200	2.541700	35.576802	1.412170	0.021598	0.222072	0.040638	0.002706	0.001716	0.105181	0.000469	0.010053	0.005486	0.001555	0.015545
12-Jun-2025	1.845936	9.903280	15.270600	2.509100	35.060964	1.386070	0.021261	0.218580	0.040203	0.002657	0.001697	0.104029	0.000460	0.009924	0.005399	0.001532	0.015320
13-Jun-2025	2.029053	9.744210	14.997900	2.476660	34.530178	1.358790	0.020911	0.214980	0.039758	0.002607	0.001682	0.102819	0.000452	0.009800	0.005308	0.001509	0.015085
14-Jun-2025	2.154995	9.583040	14.720900	2.443870	33.992708	1.331050	0.020555	0.211245	0.039494	0.002556	0.001668	0.101752	0.000443	0.009675	0.005216	0.001485	0.014847
15-Jun-2025	2.306037	9.349360	14.316500	2.396690	33.214921	1.290550	0.020043	0.205520	0.039295	0.002482	0.001651	0.100293	0.000429	0.009496	0.005082	0.001450	0.014503
16-Jun-2025	2.356621	9.241460	14.131000	2.374390	32.853664	1.272110	0.019807	0.202802	0.039115	0.002449	0.001641	0.099604	0.000423	0.009412	0.005021	0.001434	0.014342
17-Jun-2025	2.382825	9.082010	13.857600	2.341440	32.319829	1.244930	0.019457	0.198971	0.038871	0.002400	0.001628	0.098560	0.000415	0.009287	0.004930	0.001410	0.014105
18-Jun-2025	2.370227	8.944030	13.620600	2.312930	31.857889	1.221450	0.019159	0.195711	0.038687	0.002358	0.001617	0.097683	0.000407	0.009179	0.004852	0.001390	0.013899
19-Jun-2025	2.291012	8.823230	13.414800	2.287590	31.451901	1.201120	0.018895	0.192921	0.038423	0.002321	0.001607	0.096875	0.000400	0.009083	0.004783	0.001372	0.013717
20-Jun-2025	2.274855	8.693400	13.193400	2.260440	31.015912	1.179200	0.018611	0.189905	0.038220	0.002282	0.001596	0.096003	0.000393	0.008980	0.004709	0.001352	0.013522
21-Jun-2025	2.270958	8.553540	12.953000	2.231670	30.548206	1.155270	0.018305	0.186656	0.038078	0.002239	0.001586	0.095110	0.000385	0.008871	0.004630	0.001331	0.013312
22-Jun-2025	2.273787	8.384480	12.658400	2.198150	29.988028	1.125770	0.017943	0.182859	0.037901	0.002186	0.001575	0.094118	0.000376	0.008745	0.004533	0.001306	0.013064
23-Jun-2025	2.339382	8.256580	12.435800	2.172490	29.562994	1.103600	0.017670	0.179924	0.037732	0.002146	0.001565	0.093382	0.000369	0.008649	0.004460	0.001287	0.012873
24-Jun-2025	2.497238	8.131870	12.219800	2.147200	29.147449	1.082020	0.017397	0.177077	0.037569	0.002108	0.001555	0.092642	0.000362	0.008554	0.004389	0.001269	0.012686
25-Jun-2025	2.697822	8.025210	12.033300	2.126030	28.793941	1.063390	0.017170	0.174705	0.037415	0.002075	0.001548	0.092062	0.000355	0.008475	0.004328	0.001253	0.012527
26-Jun-2025	2.928962	7.887100	11.791400	2.098670	28.336412	1.039260	0.016877	0.171629	0.037253	0.002033	0.001540	0.091407	0.000348	0.008374	0.004249	0.001232	0.012321
27-Jun-2025	3.257804	7.764810	11.573800	2.076250	27.938728	1.016940	0.016614	0.169096	0.037075	0.001992	0.001534	0.090722	0.000340	0.008289	0.004178	0.001215	0.012148
28-Jun-2025	3.523630	7.612310	11.306700	2.045450	27.431101	0.990593	0.016296	0.165643	0.036924	0.001948	0.001525	0.090064	0.000332	0.008177	0.004091	0.001192	0.011917
29-Jun-2025	4.032745	7.393840	10.920000	2.003710	26.713696	0.951921	0.015849	0.160921	0.036766	0.001881	0.001513	0.089303	0.000319	0.008023	0.003966	0.001160	0.011596
30-Jun-2025	4.281580	7.280100	10.721900	1.981430	26.337938	0.931396	0.015583	0.158489	0.036540	0.001846	0.001504	0.088438	0.000312	0.007938	0.003901	0.001143	0.011431
1-Jul-2025	4.657260	6.709200	9.759170	1.849560	24.369360	0.837424	0.014243	0.145133	0.034979	0.001697	0.001443	0.084843	0.000282	0.007496	0.003589	0.001054	0.010536
2-Jul-2025	5.916502	6.794120	9.962310	1.839460	24.539814	0.858546	0.014216	0.144851	0.034644	0.001732	0.001414	0.083779	0.000290	0.007538	0.003657	0.001066	0.010656
3-Jul-2025	6.487370	6.744590	9.884700	1.823630	24.350950	0.851766	0.014092	0.143704	0.034474	0.001726	0.001403	0.083526	0.000288	0.007501	0.003634	0.001058	0.010582
4-Jul-2025	7.104545	6.312410	9.092880	1.750000	22.968588	0.776021	0.013382	0.136980	0.033773	0.001627	0.001385	0.083349	0.000262	0.007201	0.003381	0.000991	0.009915
5-Jul-2025	7.345182	6.320860	9.106560	1.750410	22.991376	0.778089	0.013417	0.137424	0.033769	0.001636	0.001384	0.083597	0.000262	0.007213	0.003387	0.000992	0.009924
6-Jul-2025	7.516278	6.345750	9.151630	1.753990	23.068269	0.783211	0.013480	0.138139	0.033742	0.001649	0.001384	0.083854	0.000264	0.007230	0.003403	0.000996	0.009958
7-Jul-2025	7.953872	6.368970	9.196940	1.757830	23.142062	0.787726	0.013516	0.138508	0.033684	0.001656	0.001383	0.083860	0.000265	0.007239	0.003416	0.000999	0.009991
8-Jul-2025	9.439514	6.796390	9.978930	1.823670	24.480459	0.866007	0.014285	0.146204	0.034217	0.001787	0.001391	0.085058	0.000291	0.007552	0.003675	0.001064	0.010636
9-Jul-2025	10.147031	6.517540	9.471590	1.782040	23.612738	0.814803	0.013767	0.141005	0.033767	0.001700	0.001386	0.084169	0.000274	0.007336	0.003504	0.001021	0.010214
10-Jul-2025	9.981696	6.471550	9.389500	1.776910	23.476776	0.806134	0.013668	0.139969	0.033587	0.001686	0.001385	0.083998	0.000272	0.007289	0.003474	0.001014	0.010141
11-Jul-2025	10.368217	6.768500	9.933380	1.821430	24.401593	0.860484	0.014197	0.145274	0.034009	0.001774	0.001391	0.084705	0.000290	0.007511	0.003654	0.001059	0.010592
12-Jul-2025	11.092458	7.054270	10.456200	1.866130	25.299236	0.912596	0.014706	0.150369	0.034362	0.001860	0.001397	0.085475	0.000307	0.007718	0.003827	0.001102	0.011024
13-Jul-2025	12.598421	6.636010	9.691420	1.803940	23.998742	0.835889	0.013951	0.142831	0.033711	0.001735	0.001389	0.084405	0.000282	0.007401	0.003571	0.001039	0.010389
14-Jul-2025	12.489037	7.100050	10.540000	1.875080	25.450404	0.920620	0.014779	0.151100	0.034334	0.001874	0.001398	0.085629	0.000310	0.007743	0.003852	0.001109	0.011091
15-Jul-2025	13.792862	7.157280	10.642500	1.884850	25.633540	0.931005	0.014892	0.152221	0.034395	0.001894	0.001400	0.085988	0.000314	0.007785	0.003886	0.001118	0.011176
16-Jul-2025	14.301050	7.156830	10.644000	1.886580	25.639541	0.930720	0.014879	0.152109	0.034313	0.001892	0.001400	0.085856	0.000314	0.007774	0.003884	0.001118	0.011176
17-Jul-2025	14.763702	7.246230	10.807100	1.901300	25.923390	0.946932	0.015038	0.153714	0.034397	0.001920	0.001403	0.086154	0.000319	0.007836	0.003937	0.001131	0.011310
18-Jul-2025	15.403335	7.555510	11.373300	1.949820	26.895467	1.003390	0.015591	0.159246	0.034774	0.002013	0.001409	0.086979	0.000338	0.008059	0.004123	0.001178	0.011778
19-Jul-2025	16.369379	7.068720	10.481800	1.876470	25.377897	0.914084	0.014714	0.150478	0.034059	0.001867	0.001400	0.085752	0.000308	0.007695	0.003827	0.001104	0.011038

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
20-Jul-2025	17.211525	7.625270	11.496600	1.963150	27.124551	1.015770	0.015728	0.160590	0.034791	0.002039	0.001412	0.087479	0.000342	0.008106	0.004163	0.001188	0.011878
21-Jul-2025	16.341438	7.155670	10.639800	1.892150	25.659582	0.929662	0.014868	0.152011	0.034083	0.001895	0.001403	0.086103	0.000314	0.007751	0.003877	0.001117	0.011167
22-Jul-2025	16.646298	7.485660	11.245600	1.944620	26.699638	0.989878	0.015451	0.157857	0.034499	0.001994	0.001410	0.086999	0.000334	0.007986	0.004074	0.001167	0.011666
23-Jul-2025	16.821419	7.963770	12.115700	2.015700	28.186186	1.077350	0.016325	0.166572	0.035214	0.002140	0.001419	0.088353	0.000363	0.008353	0.004367	0.001239	0.012390
24-Jul-2025	17.305069	7.817070	11.848600	1.994450	27.732369	1.050260	0.016049	0.163808	0.034943	0.002094	0.001417	0.087904	0.000354	0.008237	0.004277	0.001217	0.012166
25-Jul-2025	17.654212	7.792880	11.808200	1.993510	27.668096	1.045580	0.015986	0.163192	0.034778	0.002085	0.001416	0.087721	0.000353	0.008200	0.004258	0.001213	0.012129
26-Jul-2025	17.649567	7.500930	11.274700	1.949770	26.758975	0.992034	0.015456	0.157891	0.034321	0.001997	0.001411	0.086929	0.000335	0.007979	0.004080	0.001169	0.011686
27-Jul-2025	17.899331	7.664760	11.574700	1.976090	27.276444	1.021860	0.015747	0.160805	0.034503	0.002046	0.001414	0.087394	0.000345	0.008095	0.004178	0.001193	0.011934
28-Jul-2025	18.310358	7.605880	11.465500	1.968470	27.098042	1.010900	0.015644	0.159788	0.034369	0.002030	0.001414	0.087345	0.000341	0.008048	0.004141	0.001184	0.011842
29-Jul-2025	18.194094	8.491800	13.082100	2.102360	29.861543	1.173010	0.017251	0.175830	0.035680	0.002299	0.001432	0.089851	0.000395	0.008717	0.004680	0.001318	0.013184
30-Jul-2025	19.017092	7.463620	11.203600	1.948300	26.659759	0.984388	0.015379	0.157041	0.034096	0.001989	0.001412	0.087064	0.000332	0.007937	0.004053	0.001162	0.011621
31-Jul-2025	18.639981	7.504210	11.277900	1.954930	26.788414	0.991691	0.015449	0.157765	0.034133	0.002001	0.001413	0.087170	0.000335	0.007965	0.004078	0.001168	0.011683
1-Aug-2025	18.613871	7.694840	11.628400	1.986210	27.393228	1.026220	0.015775	0.161027	0.034301	0.002057	0.001417	0.087638	0.000347	0.008094	0.004191	0.001197	0.011971
2-Aug-2025	16.840071	7.528040	11.322200	1.961620	26.875467	0.995135	0.015455	0.157783	0.034014	0.002008	0.001414	0.087267	0.000336	0.007967	0.004089	0.001172	0.011715
3-Aug-2025	15.212842	7.535280	11.335700	1.964360	26.904829	0.995881	0.015445	0.157661	0.033947	0.002011	0.001415	0.087309	0.000337	0.007965	0.004091	0.001172	0.011724
4-Aug-2025	15.027437	7.593120	11.441500	1.974790	27.092206	1.005900	0.015528	0.158466	0.033961	0.002028	0.001417	0.087500	0.000340	0.008001	0.004125	0.001181	0.011810
5-Aug-2025	14.931427	7.686870	11.614000	1.991090	27.393423	1.022370	0.015666	0.159814	0.034009	0.002056	0.001419	0.087738	0.000346	0.008060	0.004179	0.001195	0.011951
6-Aug-2025	14.934758	8.294500	12.722200	2.083470	29.291096	1.133520	0.016772	0.170868	0.034893	0.002241	0.001432	0.089504	0.000383	0.008518	0.004548	0.001287	0.012870
7-Aug-2025	14.975769	8.186610	12.527000	2.068290	28.959183	1.113290	0.016550	0.168611	0.034662	0.002207	0.001430	0.089113	0.000377	0.008429	0.004481	0.001271	0.012707
8-Aug-2025	15.208094	8.239040	12.622900	2.077380	29.127534	1.122490	0.016630	0.169405	0.034693	0.002223	0.001431	0.089266	0.000380	0.008463	0.004512	0.001279	0.012785
9-Aug-2025	15.466142	8.563800	13.217000	2.127900	30.146501	1.181520	0.017198	0.175050	0.035104	0.002321	0.001438	0.090150	0.000400	0.008700	0.004708	0.001328	0.013277
10-Aug-2025	15.727579	8.478390	13.060000	2.116120	29.884722	1.165460	0.017032	0.173382	0.034946	0.002296	0.001437	0.089982	0.000394	0.008632	0.004655	0.001315	0.013146
11-Aug-2025	16.072640	8.814930	13.674700	2.168550	30.940969	1.226590	0.017625	0.179282	0.035390	0.002398	0.001444	0.090936	0.000415	0.008879	0.004858	0.001366	0.013655
12-Aug-2025	15.086392	8.093230	12.359400	2.062160	28.700770	1.093400	0.016262	0.165591	0.034183	0.002178	0.001430	0.088886	0.000371	0.008318	0.004415	0.001256	0.012560
13-Aug-2025	14.638648	8.039380	12.260600	2.055660	28.539540	1.082950	0.016144	0.164379	0.034024	0.002163	0.001430	0.088811	0.000368	0.008271	0.004381	0.001247	0.012475
14-Aug-2025	15.094710	8.223010	12.598000	2.085900	29.122592	1.115730	0.016436	0.167248	0.034184	0.002218	0.001434	0.089293	0.000379	0.008395	0.004490	0.001275	0.012753
15-Aug-2025	14.087050	8.067600	12.310900	2.062800	28.639408	1.087010	0.016157	0.164461	0.033942	0.002174	0.001431	0.089018	0.000369	0.008281	0.004395	0.001251	0.012513
16-Aug-2025	13.637913	8.035410	12.252600	2.059340	28.544781	1.080530	0.016074	0.163586	0.033814	0.002164	0.001431	0.088915	0.000367	0.008249	0.004374	0.001246	0.012461
17-Aug-2025	12.832433	8.131380	12.428300	2.075430	28.850677	1.097520	0.016223	0.165050	0.033880	0.002192	0.001433	0.089186	0.000373	0.008313	0.004430	0.001261	0.012605
18-Aug-2025	12.951371	8.176430	12.510900	2.083680	28.997140	1.105210	0.016282	0.165605	0.033881	0.002206	0.001435	0.089324	0.000376	0.008340	0.004456	0.001267	0.012672
19-Aug-2025	12.293863	8.168550	12.495900	2.084140	28.979358	1.103100	0.016243	0.165175	0.033795	0.002205	0.001435	0.089383	0.000376	0.008327	0.004450	0.001266	0.012657
20-Aug-2025	11.892794	8.219560	12.592100	2.093380	29.144780	1.111840	0.016299	0.165682	0.033758	0.002218	0.001436	0.089408	0.000379	0.008353	0.004478	0.001273	0.012733
21-Aug-2025	12.130890	8.274950	12.692100	2.103880	29.326328	1.121070	0.016366	0.166288	0.033750	0.002237	0.001438	0.089648	0.000382	0.008386	0.004510	0.001281	0.012811
22-Aug-2025	12.588088	8.336200	12.803700	2.116400	29.530827	1.131360	0.016439	0.166961	0.033736	0.002261	0.001440	0.090438	0.000386	0.008422	0.004545	0.001290	0.012898
23-Aug-2025	13.129871	8.765480	13.590900	2.186220	30.890258	1.207900	0.017148	0.173953	0.034191	0.002392	0.001449	0.091799	0.000412	0.008725	0.004799	0.001355	0.013546
24-Aug-2025	14.026587	8.504450	13.111800	2.143760	30.063615	1.161160	0.016706	0.169588	0.033892	0.002308	0.001444	0.090375	0.000396	0.008536	0.004644	0.001316	0.013158
25-Aug-2025	13.349137	8.479630	13.065900	2.140600	29.988627	1.156380	0.016654	0.169064	0.033834	0.002301	0.001444	0.090353	0.000395	0.008516	0.004628	0.001312	0.013119
26-Aug-2025	12.507400	8.436090	12.984800	2.134900	29.856435	1.147990	0.016565	0.168159	0.033736	0.002289	0.001444	0.090336	0.000392	0.008482	0.004601	0.001305	0.013051
27-Aug-2025	12.063621	8.576750	13.243500	2.157690	30.301512	1.173220	0.016792	0.170389	0.033870	0.002331	0.001447	0.090658	0.000401	0.008578	0.004685	0.001326	0.013264
28-Aug-2025	11.503073	8.518560	13.137800	2.149970	30.124421	1.162080	0.016664	0.169076	0.033716	0.002313	0.001446	0.090483	0.000397	0.008528	0.004648	0.001317	0.013174
29-Aug-2025	10.634542	8.647340	13.373900	2.170960	30.532421	1.185080	0.016870	0.171106	0.033833	0.002351	0.001449	0.090821	0.000405	0.008617	0.004725	0.001337	0.013368
30-Aug-2025	10.792683	9.229910	14.437300	2.260030	32.353889	1.291480	0.017920	0.181588	0.034662	0.002528	0.001461	0.092465	0.000440	0.009052	0.005078	0.001425	0.014250
31-Aug-2025	10.933033	8.548910	13.196400	2.158340	30.234672	1.166120	0.016647	0.168808	0.033582	0.002319	0.001448	0.090439	0.000399	0.008529	0.004662	0.001322	0.013218
1-Sep-2025	10.548112	8.851450	13.748500	2.204860	31.181684	1.221270	0.017187	0.174191	0.033996	0.002412	0.001454	0.091326	0.000417	0.008754	0.004845	0.001368	0.013675
2-Sep-2025	10.522502	9.295640	14.559700	2.272680	32.570109	1.302440	0.017979	0.182070	0.034572	0.002550	0.001462	0.092661	0.000445	0.009083	0.005115	0.001434	0.014344
3-Sep-2025	10.781817	9.347610	14.656600	2.279720	32.728869	1.312340	0.018079	0.183079	0.034640	0.002564	0.001463	0.092680	0.000448	0.009121	0.005147	0.001442	0.014423
4-Sep-2025	10.757440	9.040570	14.099000	2.232470	31.767615	1.256470	0.017515	0.177430	0.034125	0.002470	0.001455	0.091720	0.000429	0.008886	0.004960	0.001395	0.013955
5-Sep-2025	10.915738	8.957370	13.949000	2.219710	31.507319	1.241410	0.017358	0.175852	0.033960	0.002446	0.001452	0.091452	0.000424	0.008819	0.004910	0.001383	0.013827
6-Sep-2025	10.583381	8.819950	13.703400	2.198740	31.077826	1.216650	0.017086	0.173107	0.033637	0.002407	0.001447	0.091011	0.000416	0.008704	0.004826	0.001362	0.013616
7-Sep-2025	10.701512	8.811860	13.688800	2.197320	31.051778	1.215220	0.017073	0.172971	0.033629	0.002404	0.001447	0.090966	0.000416	0.008699	0.004821	0.001360	0.013604
8-Sep-2025	10.182055	9.506860	14.962800	2.302810	33.221601	1.342840	0.018322	0.185457	0.034565	0.002614	0.001459	0.092755	0.000458	0.009211	0.005243	0.001466	0.014657
9-Sep-2025	10.198094	9.455900	14.867900	2.295030	33.062316	1.333340	0.018229	0.184518	0.034492	0.002600	0.001459	0.092706	0.000455	0.009175	0.005212	0.001458	0.014578

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Sep-2025	10.559867	9.276190	14.542500	2.267720	32.501117	1.300620	0.017893	0.181144	0.034176	0.002546	0.001454	0.092160	0.000444	0.009034	0.005103	0.001430	0.014305
11-Sep-2025	10.022086	9.040220	14.112800	2.231740	31.763735	1.257550	0.017454	0.176737	0.033768	0.002478	0.001448	0.091557	0.000430	0.008853	0.004959	0.001394	0.013944
12-Sep-2025	9.526308	9.004900	14.050400	2.226380	31.653468	1.251220	0.017379	0.175960	0.033655	0.002469	0.001446	0.091452	0.000428	0.008822	0.004938	0.001389	0.013888
13-Sep-2025	9.644294	9.101530	14.230600	2.241130	31.955494	1.269050	0.017531	0.177422	0.033685	0.002501	0.001446	0.091698	0.000434	0.008885	0.004996	0.001403	0.014029
14-Sep-2025	9.461884	9.429110	14.828000	2.290730	32.977714	1.329050	0.018128	0.183399	0.034165	0.002601	0.001453	0.092670	0.000454	0.009132	0.005195	0.001453	0.014525
15-Sep-2025	7.901089	9.042450	14.124700	2.231880	31.769879	1.258470	0.017421	0.176339	0.033565	0.002482	0.001444	0.091468	0.000431	0.008837	0.004960	0.001394	0.013940
16-Sep-2025	7.552378	9.565540	15.080200	2.311190	33.402634	1.354300	0.018368	0.185795	0.034308	0.002642	0.001454	0.092957	0.000462	0.009229	0.005278	0.001473	0.014732
17-Sep-2025	7.392955	9.247470	14.505400	2.262370	32.407372	1.296630	0.017772	0.179813	0.033741	0.002548	0.001445	0.091955	0.000443	0.008979	0.005085	0.001425	0.014248
18-Sep-2025	7.056303	9.295900	14.594100	2.269670	32.558363	1.305520	0.017859	0.180684	0.033800	0.002562	0.001446	0.092082	0.000446	0.009015	0.005114	0.001432	0.014321
19-Sep-2025	6.615034	9.362960	14.719300	2.279650	32.766910	1.318030	0.017971	0.181789	0.033841	0.002583	0.001446	0.092215	0.000451	0.009059	0.005155	0.001442	0.014421
20-Sep-2025	6.274407	10.061400	15.994000	2.385800	34.948040	1.445810	0.019233	0.194376	0.034823	0.002798	0.001460	0.094261	0.000493	0.009583	0.005579	0.001548	0.015476
21-Sep-2025	6.160227	10.418500	16.647000	2.439850	36.062297	1.511290	0.019885	0.200913	0.035362	0.002904	0.001467	0.095167	0.000515	0.009851	0.005796	0.001602	0.016019
22-Sep-2025	5.944934	10.472000	16.747100	2.447820	36.228707	1.521270	0.019977	0.201829	0.035407	0.002919	0.001468	0.095207	0.000518	0.009887	0.005828	0.001610	0.016101
23-Sep-2025	6.026928	9.555120	15.082200	2.308050	33.363685	1.354110	0.018287	0.184923	0.033937	0.002639	0.001446	0.092334	0.000463	0.009182	0.005271	0.001471	0.014711
24-Sep-2025	5.747238	10.098200	16.076500	2.390540	35.059449	1.453730	0.019266	0.194706	0.034684	0.002803	0.001456	0.093778	0.000496	0.009584	0.005600	0.001553	0.015534
25-Sep-2025	4.917824	9.589660	15.147300	2.313180	33.471056	1.360570	0.018338	0.185397	0.033918	0.002651	0.001445	0.092428	0.000465	0.009203	0.005291	0.001476	0.014760
26-Sep-2025	4.103130	9.609120	15.183400	2.315900	33.530849	1.364310	0.018369	0.185674	0.033900	0.002661	0.001445	0.092580	0.000466	0.009215	0.005304	0.001479	0.014787
27-Sep-2025	3.907850	9.888460	15.693800	2.358220	34.402635	1.415460	0.018875	0.190731	0.034302	0.002745	0.001450	0.093336	0.000483	0.009425	0.005473	0.001521	0.015210
28-Sep-2025	3.785238	9.714440	15.381000	2.331440	33.857827	1.384020	0.018547	0.187449	0.033981	0.002691	0.001445	0.092683	0.000473	0.009285	0.005367	0.001495	0.014946
29-Sep-2025	3.254898	9.628420	15.226300	2.318250	33.588718	1.368420	0.018381	0.185760	0.033802	0.002665	0.001442	0.092382	0.000468	0.009216	0.005315	0.001481	0.014814
30-Sep-2025	3.379991	10.410300	16.653800	2.436930	36.029797	1.511570	0.019800	0.199946	0.034937	0.002903	0.001458	0.094590	0.000516	0.009803	0.005790	0.001600	0.015998
1-Oct-2025	3.370200	10.060300	16.017900	2.383470	34.935699	1.447820	0.019156	0.193485	0.034376	0.002798	0.001449	0.093551	0.000494	0.009534	0.005577	0.001547	0.015467
2-Oct-2025	3.418207	9.753240	15.457500	2.336730	33.976494	1.391670	0.018599	0.187911	0.033926	0.002705	0.001443	0.092688	0.000476	0.009304	0.005391	0.001500	0.015002
3-Oct-2025	2.985769	9.358220	14.738100	2.275870	32.739508	1.319770	0.017881	0.180742	0.033366	0.002587	0.001436	0.091605	0.000452	0.009005	0.005151	0.001440	0.014402
4-Oct-2025	2.838545	9.338490	14.701200	2.272980	32.678341	1.316090	0.017849	0.180418	0.033311	0.002581	0.001434	0.091548	0.000450	0.008992	0.005139	0.001437	0.014372
5-Oct-2025	2.808847	9.336360	14.697400	2.272440	32.670799	1.315760	0.017846	0.180386	0.033402	0.002580	0.001437	0.091528	0.000450	0.008991	0.005138	0.001437	0.014369
6-Oct-2025	2.763220	9.302780	14.636900	2.266740	32.563477	1.309890	0.017788	0.179804	0.033254	0.002571	0.001433	0.091495	0.000448	0.008966	0.005118	0.001432	0.014317
7-Oct-2025	2.564302	9.287750	14.609400	2.264450	32.516517	1.307200	0.017762	0.179555	0.033244	0.002567	0.001432	0.091449	0.000447	0.008955	0.005109	0.001429	0.014294
8-Oct-2025	2.412696	9.281910	14.598600	2.263440	32.497775	1.306130	0.017754	0.179477	0.033311	0.002564	0.001435	0.091375	0.000447	0.008951	0.005106	0.001429	0.014286
9-Oct-2025	2.169388	9.251780	14.543300	2.258640	32.402774	1.300730	0.017704	0.178972	0.033313	0.002556	0.001434	0.091326	0.000445	0.008930	0.005088	0.001424	0.014240
10-Oct-2025	1.900722	9.220810	14.486800	2.253610	32.304729	1.295220	0.017653	0.178469	0.033295	0.002547	0.001433	0.091243	0.000443	0.008908	0.005069	0.001419	0.014193
11-Oct-2025	1.932529	9.201410	14.451500	2.250420	32.243150	1.291790	0.017622	0.178166	0.033159	0.002541	0.001430	0.091174	0.000442	0.008894	0.005058	0.001416	0.014164
12-Oct-2025	1.610150	9.159810	14.375100	2.243780	32.111932	1.284340	0.017553	0.177477	0.033090	0.002530	0.001428	0.091133	0.000440	0.008865	0.005033	0.001410	0.014101
13-Oct-2025	1.020011	9.123250	14.308200	2.237980	31.996757	1.277790	0.017493	0.176887	0.033051	0.002519	0.001428	0.091042	0.000437	0.008839	0.005011	0.001405	0.014046
14-Oct-2025	0.576447	9.105990	14.277500	2.234920	31.941058	1.274840	0.017464	0.176604	0.033030	0.002514	0.001427	0.090969	0.000436	0.008826	0.005001	0.001402	0.014020
15-Oct-2025	0.101291	9.094930	14.258200	2.232810	31.904752	1.273010	0.017445	0.176413	0.033047	0.002511	0.001427	0.090899	0.000436	0.008817	0.004995	0.001400	0.014003
16-Oct-2025	0.135106	9.097790	14.262400	2.233650	31.915352	1.273360	0.017450	0.176466	0.033017	0.002512	0.001426	0.090940	0.000436	0.008820	0.004996	0.001401	0.014007
17-Oct-2025	0.167580	9.167010	14.364400	2.252720	32.166725	1.282090	0.017592	0.177907	0.033352	0.002529	0.001441	0.091779	0.000439	0.008894	0.005033	0.001412	0.014115
18-Oct-2025	0.189601	9.225770	14.459900	2.266280	32.369289	1.290830	0.017702	0.179019	0.033532	0.002546	0.001449	0.092284	0.000442	0.008948	0.005066	0.001421	0.014206
19-Oct-2025	0.205825	9.302410	14.578600	2.285330	32.639107	1.301330	0.017850	0.180516	0.033818	0.002567	0.001461	0.093067	0.000445	0.009023	0.005108	0.001432	0.014324
20-Oct-2025	0.215630	9.366180	14.677500	2.301350	32.864311	1.310090	0.017974	0.181768	0.034061	0.002584	0.001472	0.093735	0.000448	0.009086	0.005142	0.001442	0.014422
21-Oct-2025	0.217385	9.407170	14.740900	2.311670	33.009161	1.315710	0.018053	0.182575	0.034219	0.002595	0.001478	0.094164	0.000450	0.009127	0.005165	0.001449	0.014485
22-Oct-2025	0.216356	9.427510	14.772200	2.316830	33.081198	1.318480	0.018093	0.182979	0.034299	0.002601	0.001482	0.094383	0.000451	0.009147	0.005176	0.001452	0.014517
23-Oct-2025	0.214827	9.437490	14.788500	2.319070	33.115343	1.319970	0.018112	0.183165	0.034330	0.002604	0.001483	0.094465	0.000452	0.009156	0.005181	0.001453	0.014532
24-Oct-2025	0.217095	9.460060	14.824600	2.324370	33.193525	1.323240	0.018154	0.183591	0.034403	0.002610	0.001486	0.094671	0.000453	0.009177	0.005194	0.001457	0.014567
25-Oct-2025	0.221325	9.475770	14.849500	2.328150	33.248319	1.325470	0.018183	0.183890	0.034456	0.002614	0.001489	0.094823	0.000454	0.009192	0.005203	0.001459	0.014591
26-Oct-2025	0.224070	9.498890	14.886000	2.333750	33.329111	1.328750	0.018227	0.184333	0.034536	0.002621	0.001492	0.095049	0.000455	0.009214	0.005215	0.001463	0.014626
27-Oct-2025	0.226355	9.532520	14.939000	2.341950	33.446853	1.333480	0.018291	0.184981	0.034655	0.002630	0.001497	0.095382	0.000456	0.009247	0.005234	0.001468	0.014678
28-Oct-2025	0.228538	9.560210	14.982500	2.348710	33.543832	1.337380	0.018344	0.185516	0.034754	0.002638	0.001502	0.095656	0.000458	0.009273	0.005249	0.001472	0.014721
29-Oct-2025	0.231019	9.588330	15.026500	2.355620	33.642503	1.341310	0.018398	0.186059	0.034855	0.002646	0.001506	0.095940	0.000459	0.009301	0.005265	0.001476	0.014764
30-Oct-2025	0.233224	9.609920	15.059800	2.361100	33.718980	1.344240	0.018439	0.186476	0.034934	0.002652	0.001510	0.096184	0.000460	0.009322	0.005276	0.001480	0.014797
31-Oct-2025	0.234485	9.626210	15.084900	2.365240	33.776705	1.346460	0.018471	0.186792	0.034994	0.002657	0.001512	0.096368	0.000461	0.009338	0.005285	0.001482	0.014822

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Nov-2025	0.235065	9.651320	15.123900	2.371490	33.865142	1.349940	0.018519	0.187276	0.035085	0.002664	0.001516	0.096636	0.000462	0.009363	0.005299	0.001486	0.014860
2-Nov-2025	0.234914	9.683850	15.174700	2.379560	33.979602	1.354450	0.018581	0.187907	0.035203	0.002673	0.001522	0.096973	0.000464	0.009394	0.005317	0.001491	0.014910
3-Nov-2025	0.234697	9.717520	15.227300	2.387860	34.097855	1.359150	0.018645	0.188559	0.035325	0.002683	0.001527	0.097317	0.000465	0.009427	0.005335	0.001496	0.014962
4-Nov-2025	0.234721	9.756430	15.288500	2.397360	34.234134	1.364620	0.018720	0.189313	0.035466	0.002693	0.001533	0.097700	0.000467	0.009465	0.005357	0.001502	0.015022
5-Nov-2025	0.234792	9.798120	15.353200	2.407780	34.381144	1.370370	0.018800	0.190123	0.035619	0.002705	0.001540	0.098142	0.000469	0.009506	0.005379	0.001509	0.015086
6-Nov-2025	0.234844	9.834520	15.409400	2.416990	34.509961	1.375340	0.018870	0.190829	0.035754	0.002715	0.001546	0.098544	0.000471	0.009542	0.005399	0.001514	0.015142
7-Nov-2025	0.234494	9.869430	15.463600	2.425730	34.633123	1.380150	0.018937	0.191502	0.035879	0.002726	0.001551	0.098922	0.000472	0.009576	0.005418	0.001519	0.015195
8-Nov-2025	0.234540	9.906550	15.522400	2.434640	34.762503	1.385440	0.019007	0.192216	0.036009	0.002736	0.001557	0.099271	0.000474	0.009611	0.005439	0.001525	0.015252
9-Nov-2025	0.235178	9.955510	15.599800	2.446480	34.933513	1.392370	0.019101	0.193161	0.036182	0.002749	0.001564	0.099740	0.000477	0.009658	0.005466	0.001533	0.015328
10-Nov-2025	0.236434	9.992550	15.658400	2.455390	35.062693	1.397640	0.019171	0.193874	0.036312	0.002759	0.001570	0.100092	0.000478	0.009693	0.005486	0.001538	0.015385
11-Nov-2025	0.237671	10.015400	15.694600	2.460870	35.142316	1.400890	0.019215	0.194313	0.036392	0.002766	0.001573	0.100306	0.000480	0.009715	0.005499	0.001542	0.015420
12-Nov-2025	0.238227	10.041800	15.736200	2.467290	35.234675	1.404620	0.019265	0.194822	0.036485	0.002773	0.001577	0.100566	0.000481	0.009740	0.005513	0.001546	0.015460
13-Nov-2025	0.238294	10.082000	15.799400	2.477130	35.375575	1.410270	0.019342	0.195600	0.036629	0.002784	0.001583	0.100967	0.000483	0.009779	0.005536	0.001552	0.015522
14-Nov-2025	0.238172	10.110000	15.843200	2.483990	35.473741	1.414190	0.019395	0.196139	0.036729	0.002792	0.001588	0.101249	0.000484	0.009806	0.005551	0.001557	0.015565
15-Nov-2025	0.238125	10.151100	15.907600	2.494090	35.617959	1.419930	0.019475	0.196939	0.036880	0.002803	0.001594	0.101657	0.000486	0.009846	0.005574	0.001563	0.015629
16-Nov-2025	0.237706	10.187400	15.964600	2.502990	35.745251	1.425020	0.019544	0.197645	0.037012	0.002813	0.001600	0.102017	0.000488	0.009882	0.005593	0.001568	0.015685
17-Nov-2025	0.237556	10.219300	16.014400	2.510850	35.857272	1.429460	0.019605	0.198263	0.037129	0.002822	0.001605	0.102340	0.000489	0.009912	0.005611	0.001573	0.015734
18-Nov-2025	0.237524	10.249400	16.061500	2.518300	35.963111	1.433660	0.019663	0.198847	0.037238	0.002830	0.001610	0.102650	0.000491	0.009942	0.005627	0.001578	0.015780
19-Nov-2025	0.237500	10.290400	16.125700	2.528400	36.107080	1.439390	0.019742	0.199642	0.037386	0.002842	0.001616	0.103066	0.000493	0.009982	0.005650	0.001584	0.015843
20-Nov-2025	0.237635	10.334000	16.194100	2.539100	36.260012	1.445500	0.019826	0.200489	0.037545	0.002854	0.001623	0.103497	0.000495	0.010024	0.005674	0.001591	0.015910
21-Nov-2025	0.237685	10.370800	16.251900	2.548120	36.389046	1.450660	0.019896	0.201205	0.037680	0.002864	0.001629	0.103860	0.000497	0.010060	0.005694	0.001597	0.015967
22-Nov-2025	0.237658	10.402000	16.300900	2.555680	36.498084	1.455050	0.019956	0.201806	0.037791	0.002872	0.001634	0.104164	0.000498	0.010090	0.005711	0.001601	0.016015
23-Nov-2025	0.237606	10.431100	16.346200	2.562920	36.600561	1.459070	0.020011	0.202369	0.037896	0.002881	0.001638	0.104471	0.000499	0.010118	0.005727	0.001606	0.016059
24-Nov-2025	0.237612	10.387700	16.278200	2.552300	36.448458	1.453000	0.019928	0.201527	0.037738	0.002869	0.001632	0.104042	0.000497	0.010076	0.005703	0.001599	0.015993
25-Nov-2025	0.237635	10.412700	16.317400	2.558400	36.536003	1.456510	0.019976	0.202012	0.037829	0.002876	0.001635	0.104286	0.000499	0.010100	0.005717	0.001603	0.016031
26-Nov-2025	0.237617	10.446300	16.370200	2.566600	36.653670	1.461230	0.020041	0.202663	0.037950	0.002885	0.001641	0.104616	0.000500	0.010133	0.005736	0.001608	0.016083
27-Nov-2025	0.237614	10.480900	16.424600	2.575090	36.775028	1.466090	0.020107	0.203336	0.038076	0.002894	0.001646	0.104959	0.000502	0.010166	0.005755	0.001614	0.016136
28-Nov-2025	0.237582	10.510900	16.471500	2.582490	36.880411	1.470260	0.020165	0.203917	0.038185	0.002903	0.001651	0.105265	0.000503	0.010195	0.005771	0.001618	0.016182
29-Nov-2025	0.237523	10.559900	16.548200	2.594580	37.052551	1.477110	0.020259	0.204868	0.038364	0.002916	0.001659	0.105762	0.000506	0.010243	0.005798	0.001626	0.016258
30-Nov-2025	0.237444	10.592800	16.599700	2.602650	37.167934	1.481700	0.020322	0.205505	0.038483	0.002925	0.001664	0.106093	0.000507	0.010275	0.005816	0.001631	0.016308
1-Dec-2025	0.236858	10.652800	16.692600	2.617730	37.379854	1.489930	0.020437	0.206671	0.038705	0.002942	0.001674	0.106737	0.000510	0.010334	0.005849	0.001640	0.016400
2-Dec-2025	0.236532	10.708200	16.778500	2.631640	37.575469	1.497560	0.020543	0.207748	0.038910	0.002958	0.001683	0.107331	0.000513	0.010388	0.005879	0.001649	0.016486
3-Dec-2025	0.236485	10.731800	16.815500	2.637430	37.658241	1.500860	0.020588	0.208201	0.038992	0.002965	0.001686	0.107574	0.000514	0.010411	0.005892	0.001652	0.016522
4-Dec-2025	0.236598	10.765000	16.867900	2.645460	37.774209	1.505560	0.020652	0.208847	0.039113	0.002974	0.001691	0.107886	0.000515	0.010443	0.005910	0.001657	0.016573
5-Dec-2025	0.236605	10.788800	16.905500	2.651240	37.857440	1.508930	0.020698	0.209307	0.039198	0.002980	0.001695	0.108116	0.000516	0.010466	0.005923	0.001661	0.016610
6-Dec-2025	0.236632	10.827800	16.966800	2.660760	37.994026	1.514410	0.020773	0.210066	0.039340	0.002991	0.001701	0.108496	0.000518	0.010504	0.005945	0.001667	0.016670
7-Dec-2025	0.236688	10.866100	17.027000	2.670140	38.128288	1.519790	0.020846	0.210807	0.039478	0.003001	0.001707	0.108877	0.000520	0.010541	0.005966	0.001673	0.016729
8-Dec-2025	0.236668	10.904200	17.086500	2.679490	38.261927	1.525100	0.020919	0.211545	0.039616	0.003012	0.001713	0.109259	0.000522	0.010578	0.005987	0.001679	0.016787
9-Dec-2025	0.236330	10.948900	17.156700	2.690440	38.418635	1.531370	0.021005	0.212414	0.039779	0.003024	0.001720	0.109700	0.000524	0.010621	0.006011	0.001686	0.016856
10-Dec-2025	0.236355	11.002900	17.241500	2.703680	38.607996	1.538950	0.021108	0.213462	0.039975	0.003039	0.001728	0.110236	0.000527	0.010673	0.006041	0.001694	0.016940
11-Dec-2025	0.236273	11.039800	17.298600	2.712930	38.738226	1.544010	0.021179	0.214177	0.040111	0.003050	0.001734	0.110634	0.000529	0.010709	0.006061	0.001700	0.016996
12-Dec-2025	0.235622	11.070400	17.344900	2.721010	38.847908	1.548050	0.021238	0.214771	0.040226	0.003059	0.001740	0.111019	0.000530	0.010741	0.006078	0.001704	0.017043
13-Dec-2025	0.235111	11.122500	17.425000	2.734280	39.032648	1.555120	0.021338	0.215784	0.040421	0.003074	0.001749	0.111603	0.000532	0.010792	0.006106	0.001712	0.017122
14-Dec-2025	0.235107	11.158000	17.481000	2.742890	39.156747	1.560140	0.021406	0.216471	0.040548	0.003083	0.001754	0.111945	0.000534	0.010826	0.006126	0.001718	0.017177
15-Dec-2025	0.235147	11.190600	17.533000	2.750640	39.270064	1.564830	0.021469	0.217104	0.040664	0.003092	0.001759	0.112235	0.000536	0.010857	0.006144	0.001723	0.017228
16-Dec-2025	0.235203	11.219900	17.579000	2.757750	39.372505	1.568950	0.021525	0.217669	0.040769	0.003100	0.001763	0.112520	0.000537	0.010886	0.006160	0.001727	0.017273
17-Dec-2025	0.235298	11.246200	17.621600	2.763830	39.463213	1.572810	0.021575	0.218180	0.040861	0.003107	0.001767	0.112727	0.000538	0.010910	0.006174	0.001731	0.017314
18-Dec-2025	0.235194	11.288200	17.687400	2.774140	39.610544	1.578690	0.021656	0.218995	0.041013	0.003118	0.001774	0.113147	0.000540	0.010951	0.006198	0.001738	0.017378
19-Dec-2025	0.234949	11.327300	17.748600	2.783770	39.747833	1.584150	0.021731	0.219754	0.041156	0.003129	0.001780	0.113564	0.000542	0.010989	0.006219	0.001744	0.017438
20-Dec-2025	0.234945	11.368600	17.813100	2.794000	39.893086	1.589900	0.021810	0.220556	0.041307	0.003141	0.001786	0.113966	0.000544	0.011029	0.006242	0.001750	0.017502
21-Dec-2025	0.234972	11.416400	17.887900	2.805770	40.060912	1.596560	0.021902	0.221482	0.041480	0.003154	0.001794	0.114450	0.000547	0.011075	0.006268	0.001758	0.017576
22-Dec-2025	0.234922	11.466200	17.965900	2.818010	40.235667	1.603530	0.021997	0.222448	0.041661	0.003168	0.001802	0.114950	0.000549	0.011124	0.006295	0.001765	0.017652

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Dec-2025	0.234887	11.504000	18.025200	2.827310	40.368351	1.608820	0.022070	0.223182	0.041798	0.003178	0.001808	0.115330	0.000551	0.011160	0.006316	0.001771	0.017710
24-Dec-2025	0.234816	11.542900	18.086000	2.836880	40.504893	1.614240	0.022144	0.223935	0.041940	0.003189	0.001814	0.115723	0.000553	0.011198	0.006337	0.001777	0.017770
25-Dec-2025	0.234765	11.584000	18.150200	2.847010	40.649235	1.619970	0.022223	0.224732	0.042089	0.003200	0.001820	0.116139	0.000555	0.011238	0.006360	0.001783	0.017833
26-Dec-2025	0.234758	11.629000	18.220700	2.858110	40.807310	1.626250	0.022309	0.225606	0.042253	0.003213	0.001827	0.116596	0.000557	0.011282	0.006385	0.001790	0.017903
27-Dec-2025	0.234586	11.677800	18.297000	2.870120	40.978621	1.633060	0.022403	0.226552	0.042430	0.003226	0.001835	0.117117	0.000559	0.011329	0.006411	0.001798	0.017978
28-Dec-2025	0.234537	11.720000	18.362200	2.880810	41.128016	1.638840	0.022484	0.227372	0.042587	0.003239	0.001842	0.117554	0.000561	0.011371	0.006434	0.001804	0.018042
29-Dec-2025	0.234539	11.769900	18.440600	2.893030	41.302938	1.645830	0.022580	0.228341	0.042768	0.003252	0.001850	0.118047	0.000563	0.011419	0.006462	0.001812	0.018119
30-Dec-2025	0.234407	11.839500	18.549200	2.910260	41.547682	1.655510	0.022713	0.229691	0.043022	0.003272	0.001861	0.118763	0.000567	0.011487	0.006500	0.001823	0.018226
31-Dec-2025	0.234326	11.884600	18.620000	2.921340	41.705924	1.661820	0.022800	0.230566	0.043186	0.003284	0.001868	0.119214	0.000569	0.011531	0.006525	0.001830	0.018296
1-Jan-2026	0.234306	11.933700	18.697000	2.933350	41.877984	1.668710	0.022894	0.231517	0.043363	0.003298	0.001876	0.119700	0.000571	0.011578	0.006552	0.001837	0.018371
2-Jan-2026	0.234144	12.003200	18.805500	2.950550	42.122355	1.678380	0.023027	0.232866	0.043617	0.003317	0.001887	0.120412	0.000575	0.011646	0.006590	0.001848	0.018478
3-Jan-2026	0.234038	12.049100	18.877300	2.961830	42.283419	1.684780	0.023115	0.233756	0.043784	0.003330	0.001894	0.120874	0.000577	0.011691	0.006615	0.001855	0.018549
4-Jan-2026	0.233991	12.087500	18.937700	2.971190	42.417848	1.690180	0.023189	0.234500	0.043922	0.003340	0.001900	0.121250	0.000579	0.011728	0.006636	0.001861	0.018608
5-Jan-2026	0.233917	12.158000	19.048100	2.988600	42.665581	1.700030	0.023324	0.235869	0.044179	0.003360	0.001911	0.121965	0.000582	0.011796	0.006675	0.001872	0.018717
6-Jan-2026	0.233791	12.222300	19.148600	3.004480	42.891532	1.708980	0.023448	0.237117	0.044414	0.003378	0.001921	0.122620	0.000585	0.011859	0.006710	0.001882	0.018816
7-Jan-2026	0.233713	12.244700	19.183800	3.009930	42.969908	1.712130	0.023491	0.237550	0.044494	0.003384	0.001925	0.122840	0.000586	0.011880	0.006722	0.001885	0.018850
8-Jan-2026	0.233706	12.295700	19.263700	3.022460	43.148853	1.719270	0.023588	0.238539	0.044679	0.003398	0.001933	0.123350	0.000589	0.011930	0.006750	0.001893	0.018928
9-Jan-2026	0.233565	12.364100	19.370600	3.039400	43.389407	1.728780	0.023720	0.239868	0.044929	0.003417	0.001944	0.124053	0.000592	0.011997	0.006788	0.001903	0.019034
10-Jan-2026	0.233473	12.384700	19.403000	3.044420	43.461517	1.731680	0.023759	0.240266	0.045003	0.003423	0.001947	0.124255	0.000593	0.012016	0.006799	0.001907	0.019065
11-Jan-2026	0.233513	12.432500	19.477900	3.056120	43.629055	1.738380	0.023851	0.241192	0.045176	0.003436	0.001954	0.124728	0.000595	0.012063	0.006825	0.001914	0.019139
12-Jan-2026	0.233426	12.501500	19.585800	3.073160	43.871518	1.747990	0.023983	0.242532	0.045428	0.003455	0.001965	0.125432	0.000598	0.012130	0.006863	0.001925	0.019245
13-Jan-2026	0.233324	12.546000	19.655400	3.084160	44.027933	1.754190	0.024069	0.243396	0.045590	0.003467	0.001972	0.125885	0.000600	0.012173	0.006888	0.001931	0.019314
14-Jan-2026	0.233317	12.575800	19.702200	3.091410	44.132199	1.758380	0.024126	0.243972	0.045697	0.003475	0.001977	0.126176	0.000602	0.012202	0.006904	0.001936	0.019359
15-Jan-2026	0.233253	12.631900	19.789900	3.105270	44.329356	1.766190	0.024233	0.245061	0.045902	0.003491	0.001986	0.126748	0.000605	0.012257	0.006935	0.001945	0.019446
16-Jan-2026	0.233077	12.677800	19.861300	3.116670	44.490914	1.772550	0.024321	0.245952	0.046070	0.003504	0.001993	0.127225	0.000607	0.012301	0.006960	0.001952	0.019516
17-Jan-2026	0.233000	12.697200	19.892100	3.121400	44.558834	1.775300	0.024359	0.246329	0.046140	0.003509	0.001996	0.127413	0.000608	0.012320	0.006971	0.001955	0.019546
18-Jan-2026	0.233029	12.749600	19.974100	3.134230	44.742510	1.782640	0.024459	0.247343	0.046329	0.003524	0.002004	0.127934	0.000610	0.012371	0.006999	0.001963	0.019627
19-Jan-2026	0.232932	12.819200	20.082800	3.151480	44.987337	1.792310	0.024593	0.248695	0.046584	0.003543	0.002016	0.128650	0.000614	0.012439	0.007038	0.001973	0.019734
20-Jan-2026	0.232884	12.875200	20.171400	3.164980	45.182762	1.800260	0.024700	0.249781	0.046785	0.003558	0.002024	0.129175	0.000616	0.012492	0.007068	0.001982	0.019820
21-Jan-2026	0.232918	12.962400	20.308000	3.186420	45.488790	1.812450	0.024867	0.251473	0.047102	0.003582	0.002038	0.130051	0.000620	0.012577	0.007116	0.001995	0.019955
22-Jan-2026	0.232863	13.062800	20.465300	3.211110	45.841163	1.826490	0.025060	0.253421	0.047467	0.003610	0.002053	0.131058	0.000625	0.012674	0.007171	0.002011	0.020109
23-Jan-2026	0.232748	13.165600	20.626200	3.236440	46.202163	1.840840	0.025257	0.255416	0.047841	0.003639	0.002070	0.132098	0.000630	0.012774	0.007228	0.002027	0.020267
24-Jan-2026	0.232741	13.258200	20.770900	3.259310	46.527564	1.853740	0.025435	0.257212	0.048179	0.003664	0.002084	0.133041	0.000635	0.012864	0.007279	0.002041	0.020410
25-Jan-2026	0.232604	13.329600	20.882700	3.276860	46.778121	1.863710	0.025572	0.258596	0.048438	0.003684	0.002096	0.133759	0.000638	0.012934	0.007318	0.002052	0.020520
26-Jan-2026	0.232526	13.383400	20.967100	3.290090	46.966940	1.871240	0.025675	0.259641	0.048634	0.003699	0.002104	0.134299	0.000641	0.012986	0.007347	0.002060	0.020603
27-Jan-2026	0.232526	13.435500	21.048600	3.302900	47.149786	1.878520	0.025775	0.260651	0.048823	0.003713	0.002112	0.134823	0.000643	0.013036	0.007376	0.002068	0.020683
28-Jan-2026	0.232562	13.480700	21.119400	3.313990	47.308319	1.884840	0.025862	0.261527	0.048987	0.003726	0.002119	0.135274	0.000645	0.013080	0.007401	0.002075	0.020752
29-Jan-2026	0.232597	13.524700	21.188500	3.324760	47.462538	1.891010	0.025946	0.262380	0.049146	0.003738	0.002126	0.135710	0.000647	0.013123	0.007425	0.002082	0.020820
30-Jan-2026	0.232629	13.563100	21.248800	3.334160	47.597132	1.896410	0.026020	0.263125	0.049285	0.003748	0.002132	0.136090	0.000649	0.013160	0.007446	0.002088	0.020879
31-Jan-2026	0.232647	13.606100	21.316300	3.344680	47.747824	1.902440	0.026102	0.263959	0.049440	0.003760	0.002139	0.136515	0.000651	0.013202	0.007470	0.002095	0.020945
1-Feb-2026	0.232649	13.665600	21.409500	3.359320	47.956683	1.910750	0.026216	0.265113	0.049657	0.003777	0.002148	0.137114	0.000654	0.013259	0.007502	0.002104	0.021037
2-Feb-2026	0.232643	13.720900	21.496200	3.372940	48.150854	1.918490	0.026322	0.266187	0.049858	0.003792	0.002157	0.137672	0.000657	0.013313	0.007533	0.002112	0.021122
3-Feb-2026	0.232634	13.787200	21.600100	3.389250	48.383570	1.927760	0.026450	0.267473	0.050099	0.003810	0.002167	0.138338	0.000660	0.013377	0.007569	0.002122	0.021224
4-Feb-2026	0.232628	13.859100	21.712600	3.406910	48.635828	1.937800	0.026587	0.268866	0.050360	0.003830	0.002179	0.139059	0.000663	0.013447	0.007609	0.002133	0.021335
5-Feb-2026	0.232623	13.927800	21.820300	3.423790	48.876884	1.947410	0.026719	0.270199	0.050609	0.003849	0.002190	0.139748	0.000667	0.013514	0.007646	0.002144	0.021441
6-Feb-2026	0.232619	13.827100	21.662400	3.399030	48.523474	1.933320	0.026526	0.268245	0.050243	0.003821	0.002174	0.138737	0.000662	0.013416	0.007591	0.002129	0.021286
7-Feb-2026	0.232618	13.868400	21.727200	3.409190	48.668439	1.939110	0.026605	0.269047	0.050393	0.003833	0.002180	0.139151	0.000664	0.013456	0.007614	0.002135	0.021349
8-Feb-2026	0.232618	13.920200	21.808400	3.421910	48.850165	1.946350	0.026705	0.270051	0.050581	0.003847	0.002188	0.139670	0.000666	0.013506	0.007642	0.002143	0.021429
9-Feb-2026	0.232619	13.973600	21.892100	3.435030	49.037533	1.953820	0.026807	0.271087	0.050775	0.003862	0.002197	0.140205	0.000669	0.013558	0.007671	0.002151	0.021511
10-Feb-2026	0.232617	14.017800	21.961400	3.445900	49.192663	1.960010	0.026892	0.271945	0.050936	0.003874	0.002204	0.140649	0.000671	0.013601	0.007696	0.002158	0.021579
11-Feb-2026	0.232613	14.067500	22.039300	3.458120	49.367086	1.966960	0.026987	0.272909	0.051116	0.003888	0.002211	0.141147	0.000673	0.013649	0.007723	0.002166	0.021656
12-Feb-2026	0.232611	14.132200	22.140600	3.473990	49.593994	1.976010	0.027111	0.274162	0.051351	0.003906	0.002222	0.141795	0.000676	0.013712	0.007758	0.002176	0.021755

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Feb-2026	0.232610	14.203500	22.252400	3.491520	49.844219	1.985980	0.027248	0.275546	0.051610	0.003925	0.002233	0.142510	0.000680	0.013781	0.007798	0.002187	0.021865
14-Feb-2026	0.232610	14.279900	22.372000	3.510290	50.112285	1.996660	0.027394	0.277027	0.051887	0.003947	0.002245	0.143276	0.000683	0.013855	0.007840	0.002198	0.021983
15-Feb-2026	0.232610	14.362300	22.501100	3.530540	50.401427	2.008180	0.027552	0.278626	0.052186	0.003969	0.002258	0.144102	0.000687	0.013935	0.007885	0.002211	0.022109
16-Feb-2026	0.232612	14.380900	22.530300	3.535130	50.466773	2.010790	0.027588	0.278988	0.052254	0.003974	0.002261	0.144289	0.000688	0.013953	0.007895	0.002214	0.022138
17-Feb-2026	0.232613	14.456800	22.649200	3.553770	50.733054	2.021400	0.027734	0.280460	0.052530	0.003995	0.002273	0.145050	0.000692	0.014027	0.007937	0.002226	0.022255
18-Feb-2026	0.232614	14.532600	22.768100	3.572410	50.999087	2.032010	0.027879	0.281931	0.052805	0.004016	0.002285	0.145810	0.000696	0.014100	0.007978	0.002237	0.022372
19-Feb-2026	0.232615	14.600800	22.874800	3.589140	51.238276	2.041540	0.028010	0.283252	0.053053	0.004035	0.002295	0.146492	0.000699	0.014166	0.008016	0.002248	0.022477
20-Feb-2026	0.232615	14.667600	22.979600	3.605570	51.472734	2.050890	0.028138	0.284549	0.053295	0.004054	0.002306	0.147161	0.000702	0.014231	0.008052	0.002258	0.022580
21-Feb-2026	0.232616	14.770000	23.140100	3.630730	51.832036	2.065220	0.028335	0.286536	0.053667	0.004082	0.002322	0.148188	0.000707	0.014331	0.008109	0.002274	0.022737
22-Feb-2026	0.232617	14.880500	23.313200	3.657880	52.219758	2.080670	0.028547	0.288679	0.054069	0.004112	0.002339	0.149295	0.000712	0.014438	0.008169	0.002291	0.022907
23-Feb-2026	0.232617	14.984100	23.475600	3.683340	52.583292	2.095160	0.028745	0.290689	0.054445	0.004141	0.002355	0.150333	0.000717	0.014538	0.008226	0.002307	0.023067
24-Feb-2026	0.232618	15.086200	23.635500	3.708430	52.941556	2.109440	0.028941	0.292670	0.054816	0.004169	0.002371	0.151357	0.000722	0.014637	0.008282	0.002322	0.023224
25-Feb-2026	0.232618	14.942700	23.410700	3.673160	52.437995	2.089370	0.028666	0.289886	0.054294	0.004130	0.002349	0.149917	0.000715	0.014498	0.008204	0.002300	0.023003
26-Feb-2026	0.232618	15.020000	23.531900	3.692160	52.709255	2.100190	0.028814	0.291386	0.054575	0.004151	0.002361	0.150693	0.000719	0.014573	0.008246	0.002312	0.023122
27-Feb-2026	0.232619	15.100600	23.658200	3.711970	52.992091	2.111460	0.028969	0.292949	0.054868	0.004173	0.002374	0.151501	0.000723	0.014651	0.008290	0.002325	0.023246
28-Feb-2026	0.232619	15.193700	23.803900	3.734840	53.318740	2.124470	0.029147	0.294754	0.055206	0.004199	0.002388	0.152434	0.000727	0.014742	0.008341	0.002339	0.023389
1-Mar-2026	0.232618	15.292900	23.959400	3.759230	53.666880	2.138350	0.029338	0.296679	0.055567	0.004226	0.002404	0.153429	0.000732	0.014838	0.008396	0.002354	0.023542
2-Mar-2026	0.232618	15.390300	24.111900	3.783170	54.008673	2.151960	0.029525	0.298568	0.055920	0.004253	0.002419	0.154406	0.000737	0.014932	0.008449	0.002369	0.023692
3-Mar-2026	0.232618	15.484000	24.258900	3.806210	54.337521	2.165070	0.029704	0.300387	0.056261	0.004279	0.002434	0.155347	0.000741	0.015023	0.008501	0.002384	0.023836
4-Mar-2026	0.232619	15.575700	24.402400	3.828740	54.659274	2.177890	0.029880	0.302165	0.056594	0.004305	0.002448	0.156266	0.000746	0.015112	0.008551	0.002398	0.023978
5-Mar-2026	0.232619	15.672500	24.554100	3.852530	54.998951	2.191420	0.030066	0.304043	0.056946	0.004331	0.002464	0.157236	0.000750	0.015206	0.008604	0.002413	0.024127
6-Mar-2026	0.232619	15.769000	24.705400	3.876260	55.337632	2.204930	0.030251	0.305916	0.057296	0.004358	0.002479	0.158205	0.000755	0.015300	0.008657	0.002428	0.024275
7-Mar-2026	0.232619	15.863100	24.852700	3.899370	55.667766	2.218070	0.030432	0.307740	0.057638	0.004384	0.002494	0.159148	0.000759	0.015391	0.008709	0.002442	0.024420
8-Mar-2026	0.232619	15.957400	25.000500	3.922560	55.998730	2.231260	0.030612	0.309570	0.057981	0.004410	0.002508	0.160094	0.000764	0.015483	0.008761	0.002457	0.024565
9-Mar-2026	0.232620	16.051000	25.147100	3.945560	56.327163	2.244350	0.030792	0.311385	0.058321	0.004436	0.002523	0.161033	0.000768	0.015573	0.008812	0.002471	0.024709
10-Mar-2026	0.232619	16.161300	25.320000	3.972690	56.714304	2.259780	0.031004	0.313527	0.058722	0.004466	0.002540	0.162140	0.000774	0.015680	0.008873	0.002488	0.024879
11-Mar-2026	0.232619	16.277500	25.502000	4.001230	57.121983	2.276030	0.031227	0.315779	0.059144	0.004499	0.002559	0.163304	0.000779	0.015793	0.008936	0.002506	0.025058
12-Mar-2026	0.232620	16.419200	25.724100	4.036070	57.619279	2.295850	0.031498	0.318529	0.059659	0.004538	0.002581	0.164726	0.000786	0.015931	0.009014	0.002528	0.025276
13-Mar-2026	0.232620	16.578600	25.973800	4.075280	58.178767	2.318130	0.031804	0.321622	0.060238	0.004582	0.002606	0.166328	0.000794	0.016085	0.009102	0.002552	0.025521
14-Mar-2026	0.232621	16.755800	26.251300	4.118820	58.800533	2.342900	0.032144	0.325058	0.060882	0.004631	0.002634	0.168105	0.000802	0.016257	0.009199	0.002579	0.025794
15-Mar-2026	0.232622	16.940900	26.541300	4.164330	59.450138	2.368780	0.032499	0.328650	0.061555	0.004682	0.002663	0.169962	0.000811	0.016437	0.009301	0.002608	0.026079
16-Mar-2026	0.232622	17.134500	26.844600	4.211910	60.129492	2.395850	0.032871	0.332405	0.062258	0.004735	0.002693	0.171904	0.000820	0.016625	0.009407	0.002638	0.026377
17-Mar-2026	0.232622	17.332700	27.155200	4.260650	60.825109	2.423570	0.033251	0.336252	0.062978	0.004790	0.002725	0.173893	0.000830	0.016817	0.009516	0.002668	0.026682
18-Mar-2026	0.232622	17.531700	27.466900	4.309550	61.523382	2.451390	0.033633	0.340111	0.063701	0.004845	0.002756	0.175889	0.000839	0.017010	0.009625	0.002699	0.026989
19-Mar-2026	0.232622	17.730300	27.778100	4.358370	62.220327	2.479160	0.034014	0.343964	0.064423	0.004900	0.002787	0.177882	0.000849	0.017203	0.009734	0.002729	0.027294
20-Mar-2026	0.232622	17.929600	28.090300	4.407360	62.919720	2.507030	0.034396	0.347830	0.065147	0.004955	0.002818	0.179881	0.000858	0.017396	0.009843	0.002760	0.027601
21-Mar-2026	0.232622	18.130500	28.405000	4.456740	63.624714	2.535120	0.034781	0.351727	0.065877	0.005011	0.002850	0.181896	0.000868	0.017591	0.009954	0.002791	0.027910
22-Mar-2026	0.232622	18.333500	28.723000	4.506630	64.337052	2.563500	0.035171	0.355665	0.066614	0.005067	0.002882	0.183933	0.000878	0.017788	0.010065	0.002822	0.028223
23-Mar-2026	0.232622	18.539100	29.045200	4.557190	65.058641	2.592250	0.035565	0.359655	0.067362	0.005124	0.002914	0.185996	0.000887	0.017987	0.010178	0.002854	0.028539
24-Mar-2026	0.232622	18.747100	29.371100	4.608310	65.788529	2.621330	0.035964	0.363689	0.068117	0.005181	0.002947	0.188083	0.000897	0.018189	0.010292	0.002886	0.028860
25-Mar-2026	0.232622	18.957000	29.699900	4.659910	66.525138	2.650690	0.036367	0.367762	0.068880	0.005239	0.002980	0.190189	0.000907	0.018393	0.010407	0.002918	0.029183
26-Mar-2026	0.232623	19.168600	30.031400	4.711920	67.267681	2.680270	0.036773	0.371866	0.069649	0.005298	0.003013	0.192311	0.000917	0.018598	0.010524	0.002951	0.029508
27-Mar-2026	0.232623	19.381400	30.364800	4.764230	68.014455	2.710020	0.037181	0.375995	0.070422	0.005356	0.003047	0.194447	0.000928	0.018805	0.010640	0.002984	0.029836
28-Mar-2026	0.232623	19.595500	30.700300	4.816880	68.765875	2.739970	0.037592	0.380149	0.071200	0.005416	0.003080	0.196595	0.000938	0.019012	0.010758	0.003017	0.030166
29-Mar-2026	0.232623	19.811000	31.038000	4.869850	69.522109	2.770100	0.038005	0.384330	0.071983	0.005475	0.003114	0.198757	0.000948	0.019222	0.010876	0.003050	0.030498
30-Mar-2026	0.232623	20.028100	31.378000	4.923200	70.283903	2.800450	0.038422	0.388540	0.072772	0.005535	0.003148	0.200935	0.000959	0.019432	0.010995	0.003083	0.030832
31-Mar-2026	0.232623	20.245700	31.719000	4.976700	71.047564	2.830880	0.038839	0.392762	0.073563	0.005595	0.003182	0.203118	0.000969	0.019643	0.011115	0.003117	0.031167
1-Apr-2026	0.232623	20.411700	31.979100	5.017510	71.630121	2.854100	0.039158	0.395983	0.074166	0.005641	0.003209	0.204784	0.000977	0.019804	0.011206	0.003142	0.031422
2-Apr-2026	0.232623	20.277700	31.769100	4.984560	71.159835	2.835360	0.038901	0.393383	0.073679	0.005604	0.003187	0.203439	0.000971	0.019674	0.011132	0.003122	0.031216
3-Apr-2026	0.232623	20.117800	31.518500	4.945240	70.598645	2.812990	0.038594	0.390280	0.073098	0.005560	0.003162	0.201834	0.000963	0.019519	0.011045	0.003097	0.030970
4-Apr-2026	0.232623	19.975600	31.295800	4.910310	70.099730	2.793120	0.038321	0.387523	0.072581	0.005521	0.003140	0.200409	0.000956	0.019381	0.010967	0.003075	0.030751
5-Apr-2026	0.232623	19.847800	31.095500	4.878880	69.651184	2.775240	0.038076	0.385043	0.072117	0.005485	0.003120	0.199126	0.000950	0.019257	0.010896	0.003055	0.030554

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Apr-2026	0.232623	19.732500	30.914900	4.850550	69.246617	2.759120	0.037855	0.382807	0.071698	0.005453	0.003102	0.197970	0.000944	0.019145	0.010833	0.003038	0.030377
7-Apr-2026	0.232623	19.628300	30.751600	4.824920	68.880886	2.744550	0.037655	0.380784	0.071319	0.005425	0.003085	0.196924	0.000939	0.019044	0.010776	0.003022	0.030216
8-Apr-2026	0.232623	19.533400	30.603000	4.801600	68.547889	2.731280	0.037473	0.378944	0.070974	0.005398	0.003070	0.195972	0.000935	0.018952	0.010724	0.003007	0.030070
9-Apr-2026	0.232623	19.446300	30.466500	4.780190	68.242234	2.719100	0.037306	0.377254	0.070658	0.005374	0.003057	0.195098	0.000931	0.018868	0.010676	0.002994	0.029936
10-Apr-2026	0.232623	19.365600	30.340100	4.760350	67.959025	2.707820	0.037151	0.375689	0.070365	0.005352	0.003044	0.194288	0.000927	0.018789	0.010632	0.002981	0.029812
11-Apr-2026	0.232623	19.290300	30.222200	4.741850	67.694817	2.697290	0.037006	0.374228	0.070091	0.005331	0.003032	0.193533	0.000923	0.018716	0.010590	0.002970	0.029696
12-Apr-2026	0.232623	19.219800	30.111700	4.724520	67.447414	2.687430	0.036871	0.372860	0.069835	0.005312	0.003021	0.192826	0.000920	0.018648	0.010552	0.002959	0.029587
13-Apr-2026	0.232623	19.153600	30.007900	4.708240	67.215072	2.678170	0.036744	0.371576	0.069594	0.005293	0.003011	0.192161	0.000917	0.018584	0.010515	0.002949	0.029485
14-Apr-2026	0.232623	19.091500	29.910600	4.692970	66.997126	2.669490	0.036625	0.370371	0.069369	0.005276	0.003001	0.191538	0.000914	0.018523	0.010481	0.002939	0.029390
15-Apr-2026	0.232623	19.043700	29.835800	4.681200	66.829301	2.662810	0.036533	0.369443	0.069195	0.005263	0.002993	0.191056	0.000912	0.018477	0.010455	0.002932	0.029316
16-Apr-2026	0.232623	19.021200	29.800600	4.675680	66.750387	2.659680	0.036490	0.369008	0.069113	0.005257	0.002990	0.190831	0.000910	0.018455	0.010443	0.002928	0.029282
17-Apr-2026	0.232623	19.000100	29.767500	4.670480	66.676286	2.656720	0.036450	0.368597	0.069036	0.005251	0.002987	0.190619	0.000909	0.018435	0.010431	0.002925	0.029249
18-Apr-2026	0.232623	18.979100	29.734600	4.665320	66.602600	2.653780	0.036409	0.368189	0.068960	0.005245	0.002983	0.190408	0.000908	0.018414	0.010420	0.002922	0.029217
19-Apr-2026	0.232623	18.957100	29.700100	4.659910	66.525388	2.650700	0.036367	0.367763	0.068880	0.005239	0.002980	0.190187	0.000907	0.018393	0.010407	0.002918	0.029183
20-Apr-2026	0.232623	18.935400	29.666100	4.654580	66.449254	2.647670	0.036325	0.367342	0.068801	0.005233	0.002976	0.189970	0.000906	0.018372	0.010396	0.002915	0.029149
21-Apr-2026	0.232623	18.925300	29.650300	4.652090	66.413781	2.646260	0.036306	0.367146	0.068764	0.005230	0.002975	0.189868	0.000906	0.018362	0.010390	0.002913	0.029134
22-Apr-2026	0.232623	18.924900	29.649700	4.652000	66.412411	2.646210	0.036305	0.367139	0.068763	0.005230	0.002975	0.189864	0.000906	0.018362	0.010390	0.002913	0.029133
23-Apr-2026	0.232623	18.924200	29.648600	4.651820	66.409922	2.646110	0.036304	0.367125	0.068760	0.005230	0.002975	0.189857	0.000906	0.018361	0.010389	0.002913	0.029132
24-Apr-2026	0.232623	18.923300	29.647300	4.651620	66.406851	2.645990	0.036302	0.367108	0.068757	0.005230	0.002975	0.189848	0.000906	0.018360	0.010389	0.002913	0.029131
25-Apr-2026	0.232623	18.922400	29.645800	4.651370	66.403574	2.645850	0.036300	0.367089	0.068754	0.005229	0.002974	0.189839	0.000906	0.018359	0.010388	0.002913	0.029129
26-Apr-2026	0.232623	18.920900	29.643500	4.651010	66.398346	2.645650	0.036298	0.367061	0.068748	0.005229	0.002974	0.189824	0.000906	0.018358	0.010388	0.002913	0.029127
27-Apr-2026	0.232623	18.919000	29.640600	4.650560	66.391749	2.645390	0.036294	0.367025	0.068742	0.005229	0.002974	0.189805	0.000906	0.018356	0.010387	0.002912	0.029124
28-Apr-2026	0.232623	18.916900	29.637300	4.650040	66.384364	2.645100	0.036290	0.366984	0.068734	0.005228	0.002974	0.189784	0.000905	0.018354	0.010385	0.002912	0.029121
29-Apr-2026	0.232623	18.914700	29.633700	4.649490	66.376606	2.644780	0.036286	0.366940	0.068726	0.005227	0.002973	0.189761	0.000905	0.018352	0.010384	0.002912	0.029118
30-Apr-2026	0.232639	18.909800	29.626100	4.648300	66.359470	2.644100	0.036276	0.366847	0.068708	0.005226	0.002972	0.189713	0.000905	0.018347	0.010382	0.002911	0.029110
1-May-2026	0.232801	18.881200	29.581200	4.641250	66.259024	2.640100	0.036221	0.366291	0.068604	0.005218	0.002968	0.189425	0.000904	0.018319	0.010366	0.002907	0.029066
2-May-2026	0.233697	18.735500	29.353000	4.605440	65.747745	2.619730	0.035942	0.363465	0.068075	0.005178	0.002945	0.187964	0.000897	0.018178	0.010286	0.002884	0.028842
3-May-2026	0.236921	18.337000	28.728700	4.507490	64.349333	2.564000	0.035177	0.355734	0.066627	0.005068	0.002882	0.183966	0.000878	0.017791	0.010067	0.002823	0.028228
4-May-2026	0.240543	18.484300	28.959400	4.543710	64.866295	2.584600	0.035460	0.358592	0.067162	0.005108	0.002906	0.185446	0.000885	0.017934	0.010148	0.002846	0.028455
5-May-2026	0.243711	18.258400	28.605600	4.488190	64.073591	2.553010	0.035027	0.354210	0.066342	0.005046	0.002870	0.183179	0.000874	0.017715	0.010024	0.002811	0.028107
6-May-2026	0.246778	17.989800	28.184800	4.422160	63.130985	2.515460	0.034512	0.348999	0.065366	0.004972	0.002828	0.180485	0.000861	0.017455	0.009876	0.002769	0.027694
7-May-2026	0.249603	17.717200	27.757600	4.355140	62.174315	2.477340	0.033989	0.343710	0.064375	0.004896	0.002785	0.177749	0.000848	0.017190	0.009727	0.002727	0.027274
8-May-2026	0.252037	17.433700	27.313400	4.285440	61.179391	2.437690	0.033445	0.338209	0.063345	0.004818	0.002740	0.174904	0.000834	0.016915	0.009571	0.002684	0.026838
9-May-2026	0.254286	17.182600	26.920100	4.223730	60.298272	2.402590	0.032963	0.333339	0.062433	0.004749	0.002701	0.172385	0.000822	0.016671	0.009433	0.002645	0.026451
10-May-2026	0.256569	17.006200	26.643600	4.180350	59.679163	2.377910	0.032624	0.329916	0.061791	0.004700	0.002673	0.170615	0.000814	0.016500	0.009336	0.002618	0.026180
11-May-2026	0.258881	16.929300	26.523200	4.161460	59.409354	2.367170	0.032477	0.328425	0.061512	0.004679	0.002661	0.169844	0.000810	0.016426	0.009294	0.002606	0.026061
12-May-2026	0.261370	16.793300	26.310200	4.128030	58.932098	2.348150	0.032216	0.325787	0.061018	0.004641	0.002640	0.168479	0.000804	0.016294	0.009220	0.002585	0.025852
13-May-2026	0.264313	16.623500	26.044200	4.086300	58.336263	2.324420	0.031890	0.322493	0.060401	0.004594	0.002613	0.166776	0.000796	0.016129	0.009126	0.002559	0.025591
14-May-2026	0.266651	16.466200	25.797600	4.047610	57.784159	2.302410	0.031589	0.319440	0.059829	0.004551	0.002588	0.165197	0.000788	0.015976	0.009040	0.002535	0.025348
15-May-2026	0.273001	16.125900	25.264600	3.963970	56.590001	2.254840	0.030936	0.312839	0.058593	0.004457	0.002535	0.161783	0.000772	0.015646	0.008853	0.002482	0.024825
16-May-2026	0.281228	15.811900	24.772700	3.886790	55.488116	2.210940	0.030333	0.306748	0.057452	0.004370	0.002485	0.158633	0.000757	0.015341	0.008681	0.002434	0.024341
17-May-2026	0.289747	15.673100	24.555100	3.852660	55.000985	2.191520	0.030067	0.304055	0.056948	0.004331	0.002464	0.157240	0.000750	0.015207	0.008605	0.002413	0.024127
18-May-2026	0.291095	15.527800	24.327500	3.816940	54.491076	2.171210	0.029788	0.301236	0.056420	0.004291	0.002441	0.155782	0.000743	0.015066	0.008525	0.002390	0.023904
19-May-2026	0.292843	15.330900	24.019100	3.768540	53.800105	2.143680	0.029411	0.297416	0.055704	0.004237	0.002410	0.153807	0.000734	0.014875	0.008417	0.002360	0.023601
20-May-2026	0.297791	14.937800	23.403200	3.671930	52.420694	2.088700	0.028656	0.289788	0.054277	0.004128	0.002348	0.149863	0.000715	0.014493	0.008201	0.002300	0.022996
21-May-2026	0.297414	14.581400	22.844700	3.584330	51.170027	2.038850	0.027973	0.282873	0.052983	0.004030	0.002292	0.146289	0.000698	0.014148	0.008005	0.002245	0.022447
22-May-2026	0.297456	14.179200	22.214300	3.485510	49.758793	1.982560	0.027200	0.275063	0.051524	0.003919	0.002229	0.142257	0.000679	0.013758	0.007784	0.002183	0.021827
23-May-2026	0.300216	13.923600	21.813800	3.422690	48.861867	1.946810	0.026710	0.270104	0.050596	0.003848	0.002189	0.139693	0.000666	0.013510	0.007644	0.002143	0.021434
24-May-2026	0.303216	13.585700	21.284300	3.339700	47.676378	1.899530	0.026061	0.263545	0.049371	0.003754	0.002136	0.136308	0.000650	0.013182	0.007458	0.002091	0.020914
25-May-2026	0.307511	13.073600	20.481900	3.213860	45.879455	1.827900	0.025079	0.253607	0.047513	0.003613	0.002055	0.131174	0.000626	0.012685	0.007177	0.002013	0.020125
26-May-2026	0.309736	12.855100	20.139400	3.160150	45.112682	1.797320	0.024659	0.249365	0.046719	0.003552	0.002021	0.128983	0.000615	0.012473	0.007057	0.001979	0.019789
27-May-2026	0.313127	12.605600	19.748500	3.098860	44.237289	1.762430	0.024181	0.244525	0.045813	0.003484	0.001982	0.126482	0.000603	0.012232	0.006920	0.001940	0.019405

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-May-2026	0.317263	12.468100	19.533000	3.065050	43.754722	1.743180	0.023917	0.241855	0.045314	0.003445	0.001960	0.125102	0.000597	0.012098	0.006845	0.001919	0.019193
29-May-2026	0.326806	12.374500	19.386300	3.042060	43.426330	1.730100	0.023737	0.240040	0.044974	0.003420	0.001946	0.124164	0.000592	0.012007	0.006793	0.001905	0.019049
30-May-2026	0.338142	12.331600	19.318900	3.031550	43.275928	1.724070	0.023654	0.239204	0.044819	0.003408	0.001939	0.123737	0.000590	0.011966	0.006770	0.001898	0.018983
31-May-2026	0.349579	12.211000	19.129800	3.002000	42.853103	1.707160	0.023423	0.236865	0.044383	0.003374	0.001920	0.122538	0.000584	0.011849	0.006704	0.001880	0.018797
1-Jun-2026	0.397667	12.079500	18.923200	2.969830	42.392271	1.688660	0.023170	0.234303	0.043914	0.003338	0.001900	0.121229	0.000578	0.011722	0.006631	0.001859	0.018594
2-Jun-2026	0.459531	11.847900	18.543600	2.917760	41.599542	1.653080	0.022714	0.229727	0.043330	0.003269	0.001872	0.119276	0.000566	0.011519	0.006502	0.001825	0.018245
3-Jun-2026	0.501724	11.711700	18.324300	2.886000	41.128663	1.632960	0.022450	0.227057	0.046391	0.003230	0.001897	0.118042	0.000559	0.011395	0.006426	0.001804	0.018039
4-Jun-2026	0.580478	11.572300	18.079600	2.859340	40.670795	1.609330	0.022166	0.224231	0.043675	0.003185	0.001869	0.117713	0.000551	0.011293	0.006346	0.001784	0.017837
5-Jun-2026	0.612503	11.228500	17.475300	2.793840	39.542598	1.550090	0.021465	0.217255	0.042884	0.003072	0.001837	0.115262	0.000532	0.011044	0.006148	0.001734	0.017340
6-Jun-2026	0.678348	11.064300	17.200200	2.758610	38.987513	1.523310	0.021138	0.213976	0.042454	0.003022	0.001813	0.113965	0.000523	0.010907	0.006055	0.001710	0.017096
7-Jun-2026	0.728692	10.861900	16.860900	2.715310	38.303811	1.490600	0.020735	0.209934	0.042287	0.002959	0.001796	0.112422	0.000512	0.010740	0.005941	0.001680	0.016795
8-Jun-2026	0.764018	10.641300	16.489300	2.668610	37.560662	1.454630	0.020292	0.205486	0.042117	0.002891	0.001787	0.110775	0.000500	0.010559	0.005816	0.001647	0.016468
9-Jun-2026	0.825980	10.427400	16.128800	2.623420	36.840461	1.419750	0.019861	0.201156	0.041858	0.002824	0.001773	0.109277	0.000488	0.010384	0.005695	0.001615	0.016150
10-Jun-2026	0.928523	10.286500	15.901000	2.591430	36.356899	1.398440	0.019575	0.198203	0.041450	0.002783	0.001758	0.108411	0.000481	0.010260	0.005616	0.001593	0.015933
11-Jun-2026	1.055919	10.102800	15.587500	2.553890	35.743611	1.367790	0.019200	0.194416	0.040963	0.002725	0.001735	0.106844	0.000471	0.010116	0.005512	0.001566	0.015660
12-Jun-2026	1.126150	9.936590	15.300200	2.519860	35.188449	1.339390	0.018862	0.190990	0.040531	0.002671	0.001714	0.105678	0.000462	0.009983	0.005416	0.001542	0.015417
13-Jun-2026	1.306924	9.797880	15.062700	2.491360	34.724727	1.316100	0.018578	0.187994	0.040131	0.002627	0.001702	0.104582	0.000454	0.009874	0.005337	0.001521	0.015210
14-Jun-2026	1.657569	9.632890	14.779600	2.457530	34.173435	1.288270	0.018238	0.184348	0.039816	0.002576	0.001686	0.103469	0.000445	0.009744	0.005243	0.001496	0.014964
15-Jun-2026	1.812235	9.496400	14.545200	2.429470	33.717068	1.265310	0.017959	0.181344	0.039614	0.002533	0.001672	0.102563	0.000437	0.009638	0.005165	0.001476	0.014760
16-Jun-2026	1.991815	9.384140	14.354400	2.405670	33.338747	1.246860	0.017732	0.178855	0.039408	0.002499	0.001662	0.101790	0.000431	0.009547	0.005102	0.001459	0.014589
17-Jun-2026	2.093678	9.183350	14.007100	2.364950	32.669689	1.212860	0.017329	0.174503	0.039145	0.002437	0.001647	0.100544	0.000420	0.009394	0.004987	0.001429	0.014291
18-Jun-2026	2.223997	9.041790	13.763100	2.335990	32.196956	1.189050	0.017045	0.171494	0.039022	0.002394	0.001636	0.099655	0.000412	0.009285	0.004907	0.001408	0.014079
19-Jun-2026	2.299883	8.860070	13.448100	2.298970	31.590753	1.158410	0.016687	0.167604	0.038846	0.002340	0.001622	0.098584	0.000402	0.009147	0.004803	0.001381	0.013808
20-Jun-2026	2.270626	8.747730	13.254700	2.275630	31.214126	1.139800	0.016469	0.165296	0.038649	0.002307	0.001613	0.097913	0.000395	0.009060	0.004739	0.001364	0.013638
21-Jun-2026	2.321914	8.631440	13.054000	2.251510	30.824424	1.120480	0.016243	0.162858	0.038510	0.002273	0.001603	0.097239	0.000389	0.008971	0.004673	0.001346	0.013462
22-Jun-2026	2.380163	8.496270	12.819400	2.223960	30.373453	1.097720	0.015978	0.160059	0.038388	0.002233	0.001593	0.096470	0.000381	0.008869	0.004597	0.001326	0.013259
23-Jun-2026	2.432355	8.366920	12.594300	2.197710	29.942369	1.075820	0.015723	0.157376	0.038201	0.002195	0.001583	0.095844	0.000374	0.008772	0.004523	0.001306	0.013064
24-Jun-2026	2.509883	8.224820	12.344700	2.169390	29.470924	1.051420	0.015444	0.154422	0.037992	0.002154	0.001574	0.095178	0.000366	0.008669	0.004442	0.001285	0.012850
25-Jun-2026	2.615374	8.094600	12.116700	2.143390	29.038696	1.029100	0.015186	0.151731	0.037801	0.002115	0.001566	0.094553	0.000358	0.008573	0.004368	0.001266	0.012655
26-Jun-2026	2.735181	7.977600	11.910600	2.120380	28.651792	1.008810	0.014954	0.149318	0.037647	0.002080	0.001558	0.093832	0.000352	0.008489	0.004301	0.001248	0.012480
27-Jun-2026	2.784194	7.841210	11.670300	2.093630	28.201070	0.985162	0.014686	0.146496	0.037533	0.002039	0.001549	0.093173	0.000344	0.008391	0.004223	0.001228	0.012278
28-Jun-2026	2.844890	7.704210	11.430100	2.066450	27.747053	0.961595	0.014414	0.143666	0.037406	0.001998	0.001540	0.092540	0.000336	0.008290	0.004145	0.001207	0.012074
29-Jun-2026	2.898396	7.589310	11.228800	2.043630	27.366175	0.941819	0.014186	0.141302	0.037301	0.001963	0.001533	0.091976	0.000329	0.008206	0.004079	0.001190	0.011902
30-Jun-2026	2.982427	7.469970	11.017800	2.020500	26.972934	0.921015	0.013953	0.138876	0.037232	0.001927	0.001526	0.091528	0.000322	0.008122	0.004011	0.001173	0.011726
1-Jul-2026	3.677765	5.731530	8.031270	1.651630	21.113043	0.632920	0.010450	0.103914	0.033532	0.001438	0.001373	0.083112	0.000226	0.006795	0.003036	0.000909	0.009086
2-Jul-2026	3.900255	6.213930	8.918440	1.724510	22.617715	0.722503	0.011331	0.112716	0.033983	0.001589	0.001379	0.082494	0.000256	0.007141	0.003329	0.000980	0.009805
3-Jul-2026	4.570813	6.585250	9.600170	1.783510	23.787863	0.790384	0.011995	0.119414	0.034311	0.001698	0.001387	0.083159	0.000279	0.007401	0.003551	0.001036	0.010359
4-Jul-2026	6.303164	6.329030	9.131730	1.746980	22.997652	0.743934	0.011544	0.114904	0.033609	0.001629	0.001381	0.082723	0.000263	0.007193	0.003392	0.000995	0.009951
5-Jul-2026	7.743202	6.605800	9.638890	1.791350	23.871462	0.794746	0.012047	0.119969	0.033875	0.001715	0.001386	0.083566	0.000280	0.007387	0.003558	0.001037	0.010369
6-Jul-2026	9.445347	6.548880	9.533170	1.781800	23.690006	0.784451	0.011951	0.119009	0.033819	0.001701	0.001385	0.083508	0.000277	0.007350	0.003524	0.001028	0.010281
7-Jul-2026	11.030856	6.300660	9.073550	1.744320	22.915858	0.739059	0.011527	0.114763	0.033474	0.001634	0.001380	0.083402	0.000262	0.007172	0.003375	0.000990	0.009901
8-Jul-2026	11.013167	7.307630	10.912400	1.897830	26.062416	0.923414	0.013356	0.133058	0.034908	0.001940	0.001401	0.086117	0.000323	0.007925	0.003986	0.001143	0.011425
9-Jul-2026	12.855127	6.691220	9.788900	1.805720	24.143931	0.810646	0.012233	0.121832	0.033917	0.001754	0.001388	0.084337	0.000286	0.007451	0.003609	0.001049	0.010490
10-Jul-2026	14.497738	7.099150	10.531800	1.870280	25.428391	0.885197	0.012981	0.129232	0.034416	0.001882	0.001397	0.085704	0.000310	0.007748	0.003855	0.001110	0.011103
11-Jul-2026	15.044273	7.286180	10.857100	1.898870	26.013138	0.919332	0.013381	0.133202	0.034777	0.001958	0.001402	0.087197	0.000321	0.007913	0.003971	0.001138	0.011376
12-Jul-2026	15.205252	6.642790	9.695010	1.800600	24.001917	0.801599	0.012161	0.121063	0.033739	0.001748	0.001388	0.084624	0.000282	0.007411	0.003578	0.001041	0.010407
13-Jul-2026	15.477963	6.753840	9.903470	1.819120	24.355475	0.821987	0.012346	0.122940	0.033781	0.001778	0.001389	0.084692	0.000289	0.007478	0.003643	0.001058	0.010577
14-Jul-2026	15.931873	6.815130	10.018000	1.829800	24.552496	0.833219	0.012449	0.123995	0.033786	0.001795	0.001390	0.084782	0.000293	0.007513	0.003678	0.001067	0.010670
15-Jul-2026	15.562867	7.056060	10.462000	1.868490	25.313424	0.877314	0.012874	0.128265	0.034024	0.001866	0.001395	0.085324	0.000308	0.007678	0.003822	0.001103	0.011034
16-Jul-2026	15.892658	6.697890	9.800030	1.812230	24.187394	0.811640	0.012246	0.121937	0.033594	0.001764	0.001388	0.084683	0.000286	0.007429	0.003607	0.001049	0.010487
17-Jul-2026	16.987110	6.890130	10.152300	1.841900	24.789599	0.846836	0.012591	0.125370	0.033827	0.001822	0.001392	0.085178	0.000298	0.007568	0.003723	0.001078	0.010777
18-Jul-2026	16.343406	7.367350	11.025100	1.914520	26.280266	0.934205	0.013452	0.134001	0.034508	0.001965	0.001402	0.086431	0.000327	0.007924	0.004013	0.001150	0.011501

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19-Jul-2026	16.798971	7.106790	10.552100	1.876200	25.471846	0.886404	0.012965	0.129119	0.034022	0.001884	0.001396	0.085586	0.000311	0.007717	0.003853	0.001110	0.011104
20-Jul-2026	16.986869	7.202430	10.726400	1.891320	25.772923	0.903890	0.013139	0.130861	0.034122	0.001915	0.001398	0.085908	0.000317	0.007786	0.003910	0.001125	0.011247
21-Jul-2026	17.584200	7.492600	11.258500	1.936660	26.684188	0.957046	0.013661	0.136086	0.034465	0.002002	0.001404	0.086657	0.000335	0.007994	0.004085	0.001169	0.011686
22-Jul-2026	18.003385	7.729500	11.698000	1.976550	27.439994	1.000420	0.014072	0.140246	0.034591	0.002071	0.001409	0.087115	0.000349	0.008143	0.004224	0.001204	0.012045
23-Jul-2026	18.532221	7.340120	10.987500	1.918590	26.229033	0.929162	0.013366	0.133172	0.034069	0.001954	0.001401	0.086610	0.000326	0.007845	0.003986	0.001145	0.011454
24-Jul-2026	18.728937	7.271820	10.853500	1.908050	26.015084	0.916594	0.013274	0.132167	0.033939	0.001945	0.001400	0.086433	0.000321	0.007807	0.003946	0.001134	0.011343
25-Jul-2026	19.313552	7.955590	12.100000	2.012830	28.153942	1.041760	0.014525	0.144630	0.034879	0.002156	0.001414	0.088520	0.000363	0.008318	0.004361	0.001238	0.012375
26-Jul-2026	18.695321	7.329050	10.959600	1.916210	26.191591	0.927132	0.013372	0.133155	0.033998	0.001960	0.001401	0.086482	0.000325	0.007849	0.003981	0.001143	0.011430
27-Jul-2026	17.570506	7.259670	10.833800	1.906410	25.977992	0.914354	0.013239	0.131820	0.033830	0.001939	0.001400	0.086270	0.000321	0.007791	0.003938	0.001132	0.011323
28-Jul-2026	18.362442	7.810330	11.840500	1.990790	27.700467	1.015180	0.014235	0.141786	0.034575	0.002106	0.001411	0.087783	0.000354	0.008199	0.004271	0.001216	0.012156
29-Jul-2026	18.404977	7.389900	11.074400	1.927510	26.390066	0.938181	0.013465	0.134075	0.033918	0.001977	0.001402	0.086542	0.000329	0.007877	0.004015	0.001152	0.011518
30-Jul-2026	18.291517	7.663330	11.576800	1.970530	27.249978	0.988308	0.013954	0.138990	0.034224	0.002059	0.001407	0.087216	0.000346	0.008071	0.004179	0.001193	0.011932
31-Jul-2026	18.316631	7.999430	12.192800	2.023200	28.306114	1.049820	0.014558	0.145035	0.034619	0.002160	0.001414	0.088101	0.000366	0.008312	0.004381	0.001244	0.012441
1-Aug-2026	17.710708	7.829570	11.887700	2.000400	27.788083	1.018460	0.014222	0.141676	0.034205	0.002107	0.001410	0.087522	0.000356	0.008161	0.004274	0.001218	0.012181
2-Aug-2026	17.144704	7.603490	11.470200	1.964910	27.077414	0.976740	0.013811	0.137500	0.033890	0.002042	0.001406	0.087060	0.000342	0.008003	0.004139	0.001183	0.011835
3-Aug-2026	15.677298	7.533220	11.339900	1.955230	26.862087	0.963660	0.013681	0.136179	0.033733	0.002025	0.001405	0.087049	0.000338	0.007948	0.004095	0.001172	0.011724
4-Aug-2026	16.923796	7.681800	11.611600	1.977950	27.326653	0.990823	0.013947	0.138824	0.033923	0.002070	0.001408	0.087456	0.000347	0.008057	0.004185	0.001195	0.011948
5-Aug-2026	17.045717	9.016260	14.048100	2.181240	31.495948	1.235080	0.016369	0.163036	0.035825	0.002476	0.001435	0.091233	0.000428	0.009056	0.004995	0.001397	0.013968
6-Aug-2026	17.307554	7.825570	11.884200	2.006220	27.802062	1.015880	0.014132	0.140574	0.033831	0.002112	0.001410	0.087684	0.000356	0.008126	0.004265	0.001216	0.012164
7-Aug-2026	17.030669	8.362340	12.858800	2.084410	29.464363	1.114830	0.015141	0.150716	0.034717	0.002276	0.001421	0.089247	0.000388	0.008546	0.004595	0.001298	0.012976
8-Aug-2026	17.122806	8.036470	12.268800	2.039330	28.465027	1.054760	0.014514	0.144411	0.034099	0.002173	0.001414	0.088135	0.000369	0.008283	0.004394	0.001248	0.012482
9-Aug-2026	17.781969	8.139910	12.463700	2.055630	28.790440	1.073170	0.014657	0.145802	0.034068	0.002202	0.001416	0.088239	0.000375	0.008337	0.004452	0.001264	0.012638
10-Aug-2026	17.711410	8.045950	12.290100	2.041390	28.497181	1.055940	0.014491	0.144139	0.033922	0.002176	0.001414	0.088101	0.000370	0.008268	0.004395	0.001249	0.012493
11-Aug-2026	17.555675	8.118110	12.422700	2.053820	28.728551	1.068860	0.014607	0.145269	0.033940	0.002200	0.001416	0.088336	0.000374	0.008314	0.004438	0.001260	0.012600
12-Aug-2026	16.372879	7.871120	11.963600	2.014620	27.950392	1.023290	0.014172	0.140864	0.033665	0.002130	0.001411	0.087972	0.000359	0.008147	0.004290	0.001222	0.012218
13-Aug-2026	16.721727	7.856660	11.940900	2.013680	27.910414	1.020650	0.014131	0.140458	0.033540	0.002125	0.001411	0.087811	0.000358	0.008123	0.004280	0.001220	0.012196
14-Aug-2026	16.885248	8.681080	13.448100	2.141140	30.493871	1.171160	0.015604	0.155157	0.034613	0.002376	0.001427	0.090134	0.000408	0.008728	0.004778	0.001344	0.013442
15-Aug-2026	16.760548	8.592330	13.288800	2.127680	30.216834	1.154990	0.015436	0.153483	0.034465	0.002346	0.001425	0.089725	0.000403	0.008658	0.004723	0.001331	0.013310
16-Aug-2026	16.086688	8.084820	12.368700	2.053440	28.643861	1.061610	0.014469	0.143781	0.033513	0.002188	0.001415	0.088071	0.000372	0.008251	0.004411	0.001254	0.012538
17-Aug-2026	15.505787	8.121310	12.428200	2.058560	28.756061	1.068060	0.014551	0.144578	0.033586	0.002207	0.001416	0.088562	0.000374	0.008290	0.004435	0.001259	0.012586
18-Aug-2026	15.048937	8.272970	12.705800	2.082000	29.231282	1.095770	0.014820	0.147267	0.033770	0.002253	0.001419	0.088981	0.000384	0.008401	0.004526	0.001282	0.012815
19-Aug-2026	15.014985	8.083670	12.361300	2.056700	28.654415	1.060220	0.014433	0.143326	0.033316	0.002200	0.001415	0.088587	0.000372	0.008239	0.004407	0.001252	0.012522
20-Aug-2026	15.164748	8.110650	12.413300	2.060630	28.737967	1.065320	0.014478	0.143786	0.033332	0.002205	0.001415	0.088543	0.000374	0.008256	0.004423	0.001256	0.012565
21-Aug-2026	15.149446	8.291410	12.744700	2.088240	29.303023	1.098410	0.014801	0.147020	0.033558	0.002258	0.001419	0.088910	0.000385	0.008388	0.004533	0.001284	0.012838
22-Aug-2026	14.804075	8.398220	12.940600	2.105500	29.640804	1.117720	0.014981	0.148792	0.033632	0.002291	0.001421	0.089222	0.000391	0.008461	0.004596	0.001300	0.012998
23-Aug-2026	15.487106	8.604280	13.316700	2.139510	30.295389	1.154690	0.015323	0.152148	0.033820	0.002358	0.001425	0.089988	0.000404	0.008602	0.004719	0.001331	0.013306
24-Aug-2026	15.604550	9.206770	14.425900	2.235270	32.194147	1.264270	0.016354	0.162426	0.034449	0.002536	0.001437	0.091354	0.000441	0.009021	0.005079	0.001422	0.014219
25-Aug-2026	15.989817	8.114000	12.425800	2.065660	28.767046	1.064940	0.014414	0.143058	0.033011	0.002206	0.001415	0.088404	0.000374	0.008224	0.004419	0.001256	0.012563
26-Aug-2026	15.083610	8.184330	12.557400	2.077990	28.993435	1.077470	0.014515	0.144038	0.032996	0.002226	0.001416	0.088480	0.000379	0.008263	0.004460	0.001267	0.012667
27-Aug-2026	15.977104	8.289140	12.751400	2.094940	29.324946	1.096480	0.014687	0.145749	0.033070	0.002256	0.001418	0.088684	0.000385	0.008332	0.004522	0.001283	0.012825
28-Aug-2026	15.287287	8.268690	12.715000	2.092880	29.265399	1.092470	0.014635	0.145201	0.032973	0.002251	0.001417	0.088626	0.000384	0.008309	0.004508	0.001279	0.012792
29-Aug-2026	15.062917	8.613900	13.344500	2.146200	30.346960	1.155310	0.015249	0.151303	0.033398	0.002357	0.001424	0.089656	0.000405	0.008564	0.004717	0.001331	0.013310
30-Aug-2026	15.117290	8.683520	13.480100	2.159670	30.576271	1.167700	0.015330	0.152109	0.033354	0.002373	0.001425	0.089534	0.000410	0.008591	0.004755	0.001342	0.013421
31-Aug-2026	14.045500	8.694720	13.504000	2.162500	30.615891	1.169610	0.015332	0.152114	0.033304	0.002374	0.001425	0.089442	0.000410	0.008589	0.004760	0.001344	0.013439
1-Sep-2026	13.097660	8.784420	13.667200	2.175780	30.894559	1.186130	0.015497	0.153762	0.033410	0.002403	0.001427	0.089738	0.000416	0.008657	0.004815	0.001357	0.013572
2-Sep-2026	13.121056	8.810850	13.713400	2.179340	30.975215	1.191020	0.015549	0.154274	0.033432	0.002415	0.001427	0.089968	0.000417	0.008680	0.004832	0.001361	0.013608
3-Sep-2026	12.908933	9.387190	14.767300	2.266820	32.774578	1.296750	0.016595	0.164740	0.034241	0.002590	0.001438	0.091545	0.000453	0.009110	0.005182	0.001448	0.014480
4-Sep-2026	13.049588	9.027650	14.121300	2.211510	31.649040	1.232100	0.015925	0.158028	0.033543	0.002482	0.001426	0.090297	0.000431	0.008820	0.004963	0.001393	0.013934
5-Sep-2026	11.786998	8.624620	13.378400	2.150070	30.389664	1.157700	0.015204	0.150809	0.033029	0.002361	0.001420	0.089382	0.000406	0.008531	0.004719	0.001332	0.013320
6-Sep-2026	11.524073	9.319120	14.646500	2.255900	32.559639	1.284920	0.016459	0.163352	0.033974	0.002577	0.001433	0.091481	0.000449	0.009049	0.005141	0.001437	0.014368
7-Sep-2026	11.536131	8.669320	13.460100	2.157410	30.531506	1.165940	0.015268	0.151412	0.032963	0.002385	0.001419	0.089801	0.000409	0.008558	0.004746	0.001338	0.013379
8-Sep-2026	10.984754	8.759500	13.627200	2.170650	30.811208	1.182710	0.015434	0.153094	0.033091	0.002408	0.001421	0.089870	0.000415	0.008624	0.004801	0.001352	0.013517

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
9-Sep-2026	11.071798	9.508510	14.994700	2.284430	33.150032	1.319880	0.016798	0.166740	0.034185	0.002635	0.001436	0.091967	0.000460	0.009187	0.005256	0.001465	0.014652
10-Sep-2026	10.855262	8.786600	13.681600	2.174530	30.894855	1.188180	0.015475	0.153493	0.033043	0.002417	0.001419	0.089831	0.000417	0.008635	0.004817	0.001356	0.013557
11-Sep-2026	9.833979	8.758260	13.633300	2.170140	30.806012	1.183280	0.015415	0.152895	0.032935	0.002408	0.001418	0.089637	0.000415	0.008606	0.004800	0.001351	0.013512
12-Sep-2026	8.531101	8.772240	13.659200	2.172310	30.849856	1.185910	0.015437	0.153106	0.032924	0.002414	0.001417	0.089729	0.000416	0.008615	0.004808	0.001353	0.013532
13-Sep-2026	8.626424	8.852350	13.809300	2.184410	31.099718	1.200940	0.015574	0.154471	0.032966	0.002439	0.001418	0.089862	0.000421	0.008667	0.004856	0.001365	0.013651
14-Sep-2026	8.594024	9.406280	14.820900	2.268540	32.829329	1.302420	0.016582	0.164549	0.033765	0.002607	0.001429	0.091422	0.000455	0.009083	0.005193	0.001449	0.014490
15-Sep-2026	8.303141	9.040510	14.161600	2.212590	31.685599	1.236380	0.015901	0.157730	0.033081	0.002498	0.001419	0.090271	0.000433	0.008791	0.004970	0.001393	0.013934
16-Sep-2026	8.074407	9.284270	14.600500	2.249970	32.448199	1.280280	0.016352	0.162246	0.033520	0.002571	0.001425	0.091036	0.000448	0.008985	0.005119	0.001430	0.014303
17-Sep-2026	7.671020	9.386080	14.789400	2.265270	32.765424	1.299260	0.016533	0.164057	0.033619	0.002602	0.001426	0.091241	0.000454	0.009056	0.005180	0.001446	0.014457
18-Sep-2026	7.147988	9.453190	14.918000	2.275050	32.973271	1.312210	0.016647	0.165206	0.033632	0.002621	0.001425	0.091248	0.000458	0.009096	0.005221	0.001456	0.014559
19-Sep-2026	7.054525	9.739180	15.437000	2.318780	33.867469	1.364250	0.017168	0.170409	0.034063	0.002710	0.001432	0.092197	0.000476	0.009315	0.005395	0.001499	0.014990
20-Sep-2026	7.069408	10.177800	16.238400	2.385470	35.237332	1.444630	0.017964	0.178366	0.034680	0.002844	0.001440	0.093430	0.000502	0.009643	0.005661	0.001565	0.015654
21-Sep-2026	7.175753	9.635110	15.251000	2.302810	33.541841	1.345600	0.016971	0.168423	0.033833	0.002679	0.001428	0.091812	0.000469	0.009229	0.005331	0.001483	0.014831
22-Sep-2026	7.389124	9.987750	15.896200	2.356380	34.642985	1.410340	0.017608	0.174793	0.034309	0.002787	0.001434	0.092803	0.000491	0.009490	0.005545	0.001536	0.015364
23-Sep-2026	7.333430	9.307170	14.656700	2.253040	32.518022	1.286050	0.016358	0.162259	0.033204	0.002585	0.001419	0.090968	0.000450	0.008970	0.005131	0.001433	0.014327
24-Sep-2026	6.917260	9.294830	14.638500	2.251000	32.478809	1.284220	0.016326	0.161936	0.033110	0.002581	0.001417	0.090798	0.000449	0.008953	0.005124	0.001431	0.014306
25-Sep-2026	7.139797	9.334250	14.710300	2.256990	32.601907	1.291410	0.016397	0.162648	0.033161	0.002593	0.001418	0.090908	0.000452	0.008982	0.005148	0.001437	0.014366
26-Sep-2026	6.317694	9.368990	14.776500	2.262020	32.709366	1.298050	0.016458	0.163262	0.033177	0.002603	0.001417	0.090897	0.000454	0.009004	0.005168	0.001442	0.014419
27-Sep-2026	5.388118	9.367230	14.775200	2.261550	32.703036	1.298010	0.016451	0.163189	0.033127	0.002604	0.001416	0.090878	0.000454	0.008999	0.005167	0.001441	0.014415
28-Sep-2026	4.726944	9.401310	14.841100	2.266560	32.808765	1.304610	0.016507	0.163747	0.033116	0.002613	0.001416	0.090866	0.000456	0.009017	0.005188	0.001447	0.014466
29-Sep-2026	4.592009	9.836360	15.636300	2.332800	34.167861	1.384320	0.017292	0.171577	0.033707	0.002747	0.001424	0.092103	0.000483	0.009341	0.005452	0.001512	0.015122
30-Sep-2026	4.388137	9.535850	15.091600	2.286770	33.227936	1.329740	0.016744	0.166127	0.033235	0.002653	0.001417	0.091084	0.000464	0.009109	0.005269	0.001467	0.014669
1-Oct-2026	2.760931	9.268780	14.603600	2.245810	32.392389	1.280960	0.016258	0.161247	0.032823	0.002576	0.001411	0.090441	0.000448	0.008909	0.005107	0.001426	0.014262
2-Oct-2026	2.764710	9.238970	14.549900	2.241170	32.298846	1.275590	0.016203	0.160705	0.032775	0.002566	0.001410	0.090326	0.000446	0.008886	0.005089	0.001422	0.014217
3-Oct-2026	2.586370	9.209390	14.495900	2.236470	32.205630	1.270250	0.016150	0.160174	0.032727	0.002558	0.001409	0.090333	0.000445	0.008864	0.005072	0.001417	0.014171
4-Oct-2026	2.625004	9.168810	14.422100	2.229890	32.077206	1.262940	0.016078	0.159447	0.032670	0.002546	0.001408	0.090150	0.000442	0.008834	0.005047	0.001411	0.014110
5-Oct-2026	2.671175	9.155640	14.398500	2.227570	32.034766	1.260660	0.016055	0.159220	0.032651	0.002542	0.001407	0.090104	0.000441	0.008825	0.005040	0.001409	0.014090
6-Oct-2026	2.810326	9.134290	14.359900	2.223940	31.966507	1.256920	0.016017	0.158844	0.032613	0.002537	0.001406	0.090082	0.000440	0.008809	0.005027	0.001406	0.014057
7-Oct-2026	2.836529	9.126470	14.346900	2.222300	31.940227	1.255680	0.016004	0.158718	0.032603	0.002534	0.001405	0.089985	0.000440	0.008802	0.005023	0.001405	0.014046
8-Oct-2026	2.557448	9.095490	14.291400	2.216860	31.840468	1.250340	0.015949	0.158175	0.032553	0.002526	0.001404	0.089903	0.000438	0.008779	0.005004	0.001400	0.013998
9-Oct-2026	1.947021	9.049710	14.210800	2.208370	31.691194	1.242550	0.015872	0.157413	0.032501	0.002511	0.001402	0.089660	0.000435	0.008745	0.004978	0.001393	0.013931
10-Oct-2026	1.603825	9.050950	14.212900	2.208670	31.695525	1.242770	0.015873	0.157422	0.032488	0.002512	0.001401	0.089675	0.000435	0.008745	0.004978	0.001393	0.013932
11-Oct-2026	1.018715	9.019700	14.157300	2.203170	31.594845	1.237390	0.015818	0.156883	0.032436	0.002503	0.001400	0.089558	0.000433	0.008722	0.004960	0.001388	0.013884
12-Oct-2026	0.882470	9.006070	14.133600	2.200550	31.550022	1.235120	0.015795	0.156653	0.032417	0.002499	0.001399	0.089478	0.000433	0.008711	0.004952	0.001386	0.013864
13-Oct-2026	0.899969	8.995540	14.115500	2.198460	31.515122	1.233420	0.015777	0.156473	0.032398	0.002496	0.001398	0.089416	0.000432	0.008703	0.004946	0.001385	0.013848
14-Oct-2026	0.917150	8.985500	14.097000	2.196840	31.483381	1.231610	0.015759	0.156298	0.032384	0.002493	0.001398	0.089424	0.000432	0.008696	0.004940	0.001383	0.013833
15-Oct-2026	0.922246	8.962180	14.055600	2.192590	31.407649	1.227620	0.015719	0.155900	0.032350	0.002487	0.001397	0.089311	0.000430	0.008678	0.004926	0.001380	0.013797
16-Oct-2026	0.895588	8.958260	14.047600	2.192230	31.396378	1.226800	0.015711	0.155823	0.032340	0.002486	0.001397	0.089347	0.000430	0.008676	0.004924	0.001379	0.013791
17-Oct-2026	0.890353	9.057850	14.204100	2.216530	31.745122	1.240480	0.015886	0.157554	0.032696	0.002514	0.001412	0.090334	0.000435	0.008772	0.004979	0.001394	0.013944
18-Oct-2026	0.882059	9.110690	14.286400	2.229920	31.932203	1.247630	0.015979	0.158477	0.032935	0.002528	0.001422	0.090889	0.000437	0.008825	0.005008	0.001403	0.014026
19-Oct-2026	0.874948	9.170880	14.379100	2.244870	32.144062	1.255570	0.016085	0.159534	0.033140	0.002544	0.001431	0.091495	0.000440	0.008884	0.005040	0.001412	0.014119
20-Oct-2026	0.869251	9.224450	14.463800	2.257780	32.330990	1.263020	0.016179	0.160465	0.033326	0.002559	0.001439	0.092012	0.000443	0.008935	0.005070	0.001420	0.014202
21-Oct-2026	0.872046	9.277530	14.546700	2.270860	32.517394	1.270230	0.016272	0.161389	0.033522	0.002574	0.001447	0.092548	0.000445	0.008987	0.005099	0.001428	0.014283
22-Oct-2026	0.870571	9.302020	14.584800	2.276970	32.603706	1.273530	0.016315	0.161816	0.033615	0.002580	0.001451	0.092801	0.000446	0.009011	0.005113	0.001432	0.014321
23-Oct-2026	0.866993	9.330580	14.629100	2.284090	32.704341	1.277370	0.016366	0.162315	0.033724	0.002588	0.001456	0.093094	0.000448	0.009039	0.005128	0.001437	0.014365
24-Oct-2026	0.866919	9.362690	14.679500	2.291930	32.816805	1.281770	0.016422	0.162873	0.033840	0.002597	0.001461	0.093413	0.000449	0.009070	0.005146	0.001441	0.014415
25-Oct-2026	0.868976	9.381830	14.709500	2.296620	32.883911	1.284390	0.016455	0.163206	0.033910	0.002602	0.001464	0.093605	0.000450	0.009089	0.005156	0.001444	0.014444
26-Oct-2026	0.866652	9.413110	14.757900	2.304490	32.994425	1.288560	0.016510	0.163750	0.034027	0.002611	0.001469	0.093938	0.000452	0.009120	0.005173	0.001449	0.014492
27-Oct-2026	0.864406	9.444310	14.807100	2.312040	33.103423	1.292880	0.016565	0.164292	0.034137	0.002620	0.001474	0.094242	0.000453	0.009150	0.005191	0.001454	0.014540
28-Oct-2026	0.862182	9.481250	14.865200	2.321030	33.232683	1.297970	0.016630	0.164935	0.034268	0.002630	0.001480	0.094605	0.000455	0.009185	0.005211	0.001460	0.014597
29-Oct-2026	0.859818	9.518330	14.923300	2.330140	33.362787	1.303030	0.016695	0.165579	0.034404	0.002640	0.001486	0.094978	0.000457	0.009221	0.005231	0.001465	0.014654
30-Oct-2026	0.858861	9.559320	14.987200	2.340280	33.506895	1.308590	0.016767	0.166293	0.034554	0.002652	0.001492	0.095396	0.000459	0.009261	0.005254	0.001472	0.014718

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Oct-2026	0.854267	9.595510	15.043600	2.349250	33.634200	1.313490	0.016830	0.166921	0.034686	0.002662	0.001498	0.095772	0.000460	0.009297	0.005274	0.001477	0.014773
1-Nov-2026	0.849936	9.625400	15.091100	2.356370	33.738155	1.317700	0.016882	0.167438	0.034788	0.002671	0.001502	0.096064	0.000462	0.009325	0.005290	0.001482	0.014819
2-Nov-2026	0.846154	9.654430	15.136800	2.363390	33.839552	1.321700	0.016933	0.167944	0.034890	0.002678	0.001507	0.096339	0.000463	0.009353	0.005306	0.001486	0.014864
3-Nov-2026	0.844194	9.691380	15.194800	2.372400	33.968919	1.326780	0.016998	0.168586	0.035022	0.002689	0.001512	0.096707	0.000465	0.009389	0.005326	0.001492	0.014920
4-Nov-2026	0.836228	9.727030	15.249900	2.381340	34.094752	1.331530	0.017061	0.169209	0.035160	0.002699	0.001518	0.097085	0.000467	0.009424	0.005346	0.001498	0.014975
5-Nov-2026	0.830232	9.762740	15.306400	2.389960	34.219417	1.336510	0.017123	0.169823	0.035276	0.002709	0.001524	0.097444	0.000468	0.009458	0.005366	0.001503	0.015030
6-Nov-2026	0.829125	9.802630	15.369400	2.399580	34.358638	1.342050	0.017193	0.170514	0.035414	0.002720	0.001529	0.097832	0.000470	0.009496	0.005388	0.001509	0.015091
7-Nov-2026	0.827644	9.832330	15.415800	2.406890	34.462901	1.346100	0.017244	0.171029	0.035520	0.002729	0.001534	0.098138	0.000472	0.009525	0.005404	0.001514	0.015137
8-Nov-2026	0.828230	9.879620	15.490500	2.418300	34.627971	1.352660	0.017327	0.171852	0.035686	0.002742	0.001541	0.098591	0.000474	0.009570	0.005430	0.001521	0.015209
9-Nov-2026	0.827158	9.767930	15.315800	2.390820	34.235918	1.337450	0.017131	0.169907	0.035276	0.002711	0.001524	0.097468	0.000469	0.009461	0.005369	0.001504	0.015037
10-Nov-2026	0.825250	9.797420	15.362600	2.397870	34.338586	1.341570	0.017183	0.170422	0.035381	0.002719	0.001528	0.097739	0.000470	0.009489	0.005385	0.001508	0.015083
11-Nov-2026	0.819742	9.826170	15.407500	2.405150	34.440354	1.345490	0.017233	0.170919	0.035482	0.002728	0.001534	0.098206	0.000471	0.009517	0.005401	0.001513	0.015127
12-Nov-2026	0.811387	9.867610	15.471400	2.415630	34.586987	1.351000	0.017306	0.171635	0.035635	0.002740	0.001541	0.098741	0.000473	0.009558	0.005423	0.001519	0.015190
13-Nov-2026	0.809232	9.906400	15.530000	2.425660	34.725149	1.355970	0.017373	0.172300	0.035781	0.002751	0.001546	0.098983	0.000475	0.009597	0.005444	0.001525	0.015249
14-Nov-2026	0.811273	9.940220	15.582800	2.433990	34.843900	1.360570	0.017432	0.172887	0.035903	0.002760	0.001552	0.099340	0.000477	0.009630	0.005463	0.001530	0.015301
15-Nov-2026	0.812218	9.962170	15.617300	2.439330	34.920699	1.363590	0.017471	0.173268	0.035980	0.002766	0.001555	0.099547	0.000478	0.009651	0.005475	0.001533	0.015335
16-Nov-2026	0.812113	9.985340	15.654400	2.444790	35.001039	1.366870	0.017511	0.173673	0.036061	0.002773	0.001558	0.099752	0.000479	0.009673	0.005488	0.001537	0.015371
17-Nov-2026	0.812160	10.015600	15.702000	2.452100	35.106701	1.371050	0.017564	0.174199	0.036169	0.002781	0.001563	0.100042	0.000480	0.009702	0.005505	0.001542	0.015417
18-Nov-2026	0.811239	10.050800	15.757400	2.460700	35.230010	1.375890	0.017626	0.174812	0.036295	0.002791	0.001568	0.100391	0.000482	0.009736	0.005524	0.001547	0.015472
19-Nov-2026	0.808059	10.098200	15.827800	2.473500	35.401078	1.381800	0.017708	0.175622	0.036480	0.002805	0.001577	0.101023	0.000484	0.009785	0.005549	0.001554	0.015543
20-Nov-2026	0.806681	10.125900	15.870000	2.480650	35.499689	1.385410	0.017757	0.176100	0.036585	0.002813	0.001582	0.101349	0.000486	0.009813	0.005564	0.001559	0.015586
21-Nov-2026	0.808317	10.168700	15.938800	2.490600	35.647535	1.391520	0.017832	0.176850	0.036733	0.002825	0.001588	0.101707	0.000488	0.009853	0.005588	0.001565	0.015652
22-Nov-2026	0.809087	10.199300	15.988200	2.497690	35.753140	1.395920	0.017886	0.177388	0.036839	0.002833	0.001592	0.101958	0.000489	0.009882	0.005605	0.001570	0.015700
23-Nov-2026	0.806164	10.240300	16.050100	2.508440	35.899785	1.401180	0.017957	0.178092	0.036995	0.002845	0.001600	0.102463	0.000491	0.009923	0.005627	0.001576	0.015762
24-Nov-2026	0.805828	10.278600	16.110800	2.517620	36.033223	1.406520	0.018025	0.178761	0.037131	0.002855	0.001605	0.102819	0.000493	0.009960	0.005649	0.001582	0.015821
25-Nov-2026	0.807918	10.316400	16.171200	2.526510	36.164219	1.411870	0.018091	0.179423	0.037264	0.002865	0.001611	0.103148	0.000495	0.009996	0.005669	0.001588	0.015880
26-Nov-2026	0.809189	10.340000	16.209200	2.532020	36.245838	1.415240	0.018133	0.179837	0.037345	0.002872	0.001614	0.103349	0.000496	0.010018	0.005683	0.001592	0.015916
27-Nov-2026	0.808403	10.371600	16.258800	2.539720	36.356452	1.419580	0.018189	0.180387	0.037459	0.002880	0.001619	0.103660	0.000498	0.010048	0.005700	0.001596	0.015965
28-Nov-2026	0.808845	10.410500	16.319700	2.549240	36.492789	1.424900	0.018257	0.181062	0.037599	0.002891	0.001625	0.104049	0.000499	0.010086	0.005721	0.001602	0.016025
29-Nov-2026	0.808942	10.447400	16.378100	2.558110	36.621455	1.430040	0.018322	0.181706	0.037730	0.002901	0.001631	0.104397	0.000501	0.010121	0.005742	0.001608	0.016082
30-Nov-2026	0.807341	10.475800	16.423600	2.564860	36.720166	1.434060	0.018372	0.182205	0.037831	0.002909	0.001635	0.104675	0.000503	0.010148	0.005757	0.001613	0.016126
1-Dec-2026	0.807026	10.516400	16.485000	2.575430	36.865072	1.439390	0.018442	0.182901	0.037983	0.002921	0.001642	0.105144	0.000504	0.010189	0.005779	0.001619	0.016188
2-Dec-2026	0.807756	10.565900	16.563400	2.587290	37.037513	1.446180	0.018529	0.183765	0.038159	0.002934	0.001649	0.105603	0.000507	0.010237	0.005807	0.001626	0.016264
3-Dec-2026	0.807979	10.598500	16.615200	2.595040	37.150829	1.450750	0.018586	0.184334	0.038274	0.002943	0.001654	0.105900	0.000508	0.010268	0.005825	0.001631	0.016314
4-Dec-2026	0.807762	10.628500	16.662300	2.602400	37.256048	1.454860	0.018639	0.184857	0.038383	0.002952	0.001659	0.106199	0.000510	0.010297	0.005841	0.001636	0.016361
5-Dec-2026	0.807978	10.662800	16.716100	2.610770	37.376162	1.459560	0.018699	0.185453	0.038507	0.002961	0.001664	0.106539	0.000512	0.010330	0.005860	0.001641	0.016413
6-Dec-2026	0.808071	10.708300	16.787400	2.621920	37.535692	1.465780	0.018779	0.186244	0.038671	0.002974	0.001671	0.106994	0.000514	0.010374	0.005885	0.001648	0.016483
7-Dec-2026	0.808088	10.742700	16.841400	2.630290	37.656056	1.470510	0.018839	0.186843	0.038795	0.002983	0.001677	0.107332	0.000515	0.010407	0.005904	0.001654	0.016536
8-Dec-2026	0.807787	10.770800	16.885600	2.637150	37.754471	1.474380	0.018889	0.187332	0.038896	0.002991	0.001681	0.107609	0.000517	0.010434	0.005920	0.001658	0.016580
9-Dec-2026	0.807725	10.812300	16.950500	2.647320	37.899977	1.480040	0.018961	0.188053	0.039046	0.003003	0.001687	0.108027	0.000519	0.010474	0.005942	0.001664	0.016643
10-Dec-2026	0.807780	10.853400	17.015100	2.657390	38.044072	1.485680	0.019034	0.188769	0.039194	0.003014	0.001694	0.108437	0.000521	0.010514	0.005965	0.001671	0.016707
11-Dec-2026	0.807856	10.896600	17.082800	2.667920	38.195305	1.491600	0.019109	0.189520	0.039350	0.003026	0.001701	0.108863	0.000523	0.010556	0.005989	0.001677	0.016773
12-Dec-2026	0.807931	10.946400	17.161000	2.680090	38.369771	1.498440	0.019197	0.190387	0.039529	0.003040	0.001708	0.109357	0.000525	0.010604	0.006016	0.001685	0.016850
13-Dec-2026	0.807812	10.979000	17.212200	2.688090	38.484118	1.502900	0.019254	0.190955	0.039647	0.003049	0.001713	0.109683	0.000527	0.010636	0.006034	0.001690	0.016900
14-Dec-2026	0.807546	11.016400	17.270800	2.697240	38.615185	1.508020	0.019320	0.191605	0.039782	0.003059	0.001719	0.110057	0.000528	0.010672	0.006055	0.001696	0.016958
15-Dec-2026	0.806660	11.051000	17.325000	2.705740	38.736584	1.512750	0.019380	0.192206	0.039907	0.003069	0.001725	0.110407	0.000530	0.010706	0.006074	0.001701	0.017011
16-Dec-2026	0.806413	11.092000	17.388900	2.715820	38.880471	1.518320	0.019452	0.192917	0.040056	0.003080	0.001731	0.110824	0.000532	0.010745	0.006096	0.001707	0.017074
17-Dec-2026	0.806084	11.113400	17.422900	2.720990	38.955197	1.521300	0.019490	0.193292	0.040133	0.003086	0.001734	0.111026	0.000533	0.010766	0.006108	0.001711	0.017107
18-Dec-2026	0.805656	11.152000	17.483300	2.730450	39.090537	1.526570	0.019557	0.193963	0.040272	0.003097	0.001740	0.111414	0.000535	0.010803	0.006129	0.001717	0.017166
19-Dec-2026	0.805617	11.193400	17.548100	2.740580	39.235628	1.532230	0.019630	0.194681	0.040421	0.003108	0.001747	0.111829	0.000537	0.010844	0.006152	0.001723	0.017230
20-Dec-2026	0.805328	11.236300	17.615400	2.751100	39.386071	1.538110	0.019705	0.195428	0.040576	0.003120	0.001754	0.112258	0.000539	0.010885	0.006175	0.001730	0.017296
21-Dec-2026	0.804949	11.280600	17.684900	2.761960	39.541409	1.544170	0.019783	0.196199	0.040736	0.003133	0.001760	0.112702	0.000541	0.010928	0.006200	0.001736	0.017364

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
22-Dec-2026	0.804792	11.323300	17.751700	2.772400	39.691023	1.550010	0.019858	0.196940	0.040890	0.003144	0.001767	0.113129	0.000543	0.010969	0.006223	0.001743	0.017430
23-Dec-2026	0.804569	11.365500	17.817900	2.782740	39.838977	1.555790	0.019932	0.197674	0.041042	0.003156	0.001774	0.113552	0.000545	0.011010	0.006246	0.001749	0.017495
24-Dec-2026	0.804429	11.406200	17.881800	2.792710	39.981661	1.561360	0.020003	0.198383	0.041189	0.003168	0.001780	0.113958	0.000547	0.011050	0.006269	0.001756	0.017558
25-Dec-2026	0.804457	11.449300	17.949400	2.803270	40.132768	1.567260	0.020079	0.199133	0.041345	0.003179	0.001787	0.114390	0.000549	0.011092	0.006292	0.001762	0.017624
26-Dec-2026	0.804250	11.495300	18.021100	2.814650	40.294493	1.573500	0.020159	0.199930	0.041511	0.003192	0.001794	0.114866	0.000551	0.011136	0.006318	0.001769	0.017695
27-Dec-2026	0.803939	11.535600	18.084600	2.824390	40.435231	1.579070	0.020230	0.200633	0.041656	0.003203	0.001800	0.115252	0.000553	0.011175	0.006340	0.001776	0.017757
28-Dec-2026	0.803824	11.577200	18.149800	2.834590	40.581110	1.584760	0.020303	0.201356	0.041806	0.003215	0.001807	0.115669	0.000555	0.011215	0.006363	0.001782	0.017821
29-Dec-2026	0.803609	11.638400	18.245500	2.849670	40.796026	1.593110	0.020410	0.202420	0.042027	0.003232	0.001816	0.116294	0.000558	0.011275	0.006396	0.001791	0.017915
30-Dec-2026	0.803417	11.691000	18.327800	2.862540	40.980367	1.600290	0.020502	0.203333	0.042217	0.003247	0.001825	0.116820	0.000561	0.011326	0.006425	0.001800	0.017996
31-Dec-2026	0.803299	11.731700	18.391800	2.872490	41.122969	1.605880	0.020574	0.204042	0.042364	0.003258	0.001831	0.117224	0.000563	0.011365	0.006448	0.001806	0.018059
1-Jan-2027	0.803139	11.791600	18.485800	2.887160	41.332950	1.614090	0.020679	0.205084	0.042580	0.003275	0.001840	0.117822	0.000566	0.011423	0.006481	0.001815	0.018151
2-Jan-2027	0.802866	11.853600	18.582700	2.902350	41.550317	1.622550	0.020787	0.206161	0.042804	0.003292	0.001850	0.118445	0.000569	0.011483	0.006515	0.001825	0.018246
3-Jan-2027	0.802689	11.890000	18.639900	2.911240	41.677816	1.627550	0.020851	0.206794	0.042935	0.003302	0.001856	0.118806	0.000570	0.011519	0.006535	0.001830	0.018302
4-Jan-2027	0.802576	11.944700	18.725700	2.924610	41.869460	1.635040	0.020947	0.207746	0.043132	0.003317	0.001864	0.119350	0.000573	0.011571	0.006565	0.001839	0.018386
5-Jan-2027	0.802235	12.019200	18.842400	2.942890	42.130763	1.645220	0.021078	0.209041	0.043402	0.003338	0.001876	0.120100	0.000577	0.011644	0.006606	0.001850	0.018501
6-Jan-2027	0.802179	12.057400	18.902400	2.952250	42.264693	1.650460	0.021145	0.209706	0.043540	0.003349	0.001882	0.120481	0.000578	0.011681	0.006627	0.001856	0.018560
7-Jan-2027	0.802290	12.102900	18.973800	2.963370	42.424099	1.656710	0.021225	0.210498	0.043704	0.003361	0.001889	0.120932	0.000581	0.011725	0.006652	0.001863	0.018630
8-Jan-2027	0.802024	12.172500	19.082600	2.980450	42.668226	1.666200	0.021347	0.211707	0.043955	0.003381	0.001900	0.121634	0.000584	0.011792	0.006690	0.001874	0.018737
9-Jan-2027	0.801644	12.199800	19.125500	2.987140	42.763943	1.669940	0.021394	0.212182	0.044054	0.003388	0.001904	0.121907	0.000585	0.011819	0.006705	0.001878	0.018779
10-Jan-2027	0.801590	12.240700	19.189700	2.997110	42.907127	1.675560	0.021466	0.212894	0.044201	0.003399	0.001910	0.122311	0.000587	0.011858	0.006727	0.001884	0.018842
11-Jan-2027	0.801393	12.306600	19.292900	3.013280	43.138267	1.684560	0.021582	0.214039	0.044439	0.003418	0.001921	0.122974	0.000590	0.011922	0.006764	0.001894	0.018943
12-Jan-2027	0.801171	12.354700	19.368300	3.025090	43.307007	1.691130	0.021666	0.214876	0.044613	0.003431	0.001928	0.123459	0.000593	0.011969	0.006790	0.001902	0.019017
13-Jan-2027	0.801075	12.387000	19.419000	3.032970	43.420109	1.695570	0.021723	0.215438	0.044729	0.003440	0.001933	0.123778	0.000594	0.012000	0.006808	0.001907	0.019067
14-Jan-2027	0.801036	12.444000	19.508300	3.046910	43.619843	1.703370	0.021823	0.216428	0.044935	0.003456	0.001942	0.124347	0.000597	0.012055	0.006839	0.001915	0.019155
15-Jan-2027	0.800690	12.501100	19.597600	3.060980	43.820362	1.711140	0.021923	0.217421	0.045142	0.003472	0.001951	0.124929	0.000600	0.012111	0.006870	0.001924	0.019243
16-Jan-2027	0.800223	12.525200	19.635200	3.066910	43.904960	1.714430	0.021965	0.217839	0.045229	0.003479	0.001955	0.125174	0.000601	0.012134	0.006884	0.001928	0.019280
17-Jan-2027	0.799950	12.557900	19.686700	3.074920	44.019597	1.718920	0.022022	0.218409	0.045347	0.003488	0.001960	0.125500	0.000602	0.012166	0.006902	0.001933	0.019330
18-Jan-2027	0.799854	12.610700	19.769400	3.087850	44.204684	1.726140	0.022115	0.219327	0.045538	0.003502	0.001968	0.126029	0.000605	0.012217	0.006931	0.001941	0.019411
19-Jan-2027	0.799682	12.674100	19.868600	3.103420	44.427111	1.734790	0.022226	0.220428	0.045767	0.003520	0.001978	0.126668	0.000608	0.012279	0.006965	0.001951	0.019509
20-Jan-2027	0.799713	12.735300	19.965200	3.118210	44.640833	1.743270	0.022334	0.221496	0.045986	0.003537	0.001988	0.127254	0.000611	0.012337	0.006999	0.001960	0.019603
21-Jan-2027	0.799556	12.821700	20.100600	3.139340	44.943587	1.755100	0.022485	0.222998	0.046298	0.003561	0.002001	0.128115	0.000615	0.012421	0.007047	0.001974	0.019736
22-Jan-2027	0.799254	12.915500	20.247700	3.162320	45.272437	1.767940	0.022650	0.224630	0.046637	0.003587	0.002016	0.129053	0.000620	0.012512	0.007098	0.001988	0.019881
23-Jan-2027	0.799038	13.013200	20.400700	3.186270	45.615020	1.781290	0.022821	0.226328	0.046990	0.003614	0.002031	0.130034	0.000624	0.012607	0.007152	0.002003	0.020031
24-Jan-2027	0.798881	13.079500	20.504700	3.202540	45.847571	1.790360	0.022937	0.227482	0.047230	0.003633	0.002041	0.130700	0.000627	0.012671	0.007188	0.002013	0.020133
25-Jan-2027	0.798622	13.153400	20.620400	3.220620	46.106553	1.800470	0.023067	0.228766	0.047496	0.003653	0.002053	0.131438	0.000631	0.012742	0.007229	0.002025	0.020247
26-Jan-2027	0.798530	13.225600	20.733700	3.238320	46.359725	1.810360	0.023193	0.230022	0.047757	0.003673	0.002064	0.132161	0.000634	0.012812	0.007269	0.002036	0.020358
27-Jan-2027	0.798488	13.286600	20.829300	3.253240	46.573483	1.818710	0.023300	0.231083	0.047977	0.003690	0.002074	0.132770	0.000637	0.012872	0.007302	0.002045	0.020452
28-Jan-2027	0.798432	13.350500	20.929500	3.268890	46.797488	1.827460	0.023412	0.232195	0.048208	0.003708	0.002084	0.133409	0.000640	0.012933	0.007337	0.002055	0.020550
29-Jan-2027	0.798380	13.410800	21.023900	3.283650	47.008838	1.835700	0.023518	0.233242	0.048425	0.003725	0.002093	0.134012	0.000643	0.012992	0.007370	0.002064	0.020643
30-Jan-2027	0.798340	13.461600	21.103700	3.296100	47.186955	1.842670	0.023607	0.234127	0.048609	0.003739	0.002101	0.134520	0.000646	0.013041	0.007398	0.002072	0.020721
31-Jan-2027	0.798314	13.508200	21.176700	3.307500	47.350260	1.849040	0.023689	0.234937	0.048777	0.003752	0.002108	0.134985	0.000648	0.013086	0.007424	0.002079	0.020793
1-Feb-2027	0.798300	13.558600	21.255700	3.319850	47.526967	1.855950	0.023777	0.235814	0.048959	0.003766	0.002116	0.135489	0.000650	0.013135	0.007452	0.002087	0.020870
2-Feb-2027	0.798289	13.612600	21.340300	3.333060	47.716203	1.863330	0.023872	0.236752	0.049153	0.003781	0.002124	0.136028	0.000653	0.013187	0.007481	0.002095	0.020954
3-Feb-2027	0.798275	13.664000	21.421000	3.345650	47.896395	1.870370	0.023962	0.237647	0.049339	0.003795	0.002133	0.136542	0.000655	0.013237	0.007510	0.002103	0.021033
4-Feb-2027	0.798264	13.718400	21.506200	3.358950	48.087001	1.877810	0.024057	0.238592	0.049535	0.003810	0.002141	0.137085	0.000658	0.013290	0.007539	0.002112	0.021116
5-Feb-2027	0.798256	13.771100	21.588900	3.371860	48.271756	1.885040	0.024150	0.239509	0.049725	0.003825	0.002149	0.137611	0.000661	0.013341	0.007568	0.002120	0.021198
6-Feb-2027	0.798244	13.666200	21.424500	3.346180	47.904071	1.870680	0.023966	0.237685	0.049347	0.003796	0.002133	0.136563	0.000656	0.013239	0.007511	0.002104	0.021036
7-Feb-2027	0.798242	13.703000	21.482100	3.355160	48.032940	1.875710	0.024030	0.238324	0.049479	0.003806	0.002139	0.136929	0.000657	0.013275	0.007531	0.002109	0.021093
8-Feb-2027	0.798256	13.746500	21.550400	3.365820	48.185457	1.881680	0.024107	0.239081	0.049636	0.003818	0.002145	0.137364	0.000659	0.013317	0.007555	0.002116	0.021160
9-Feb-2027	0.798281	13.794100	21.625000	3.377460	48.352248	1.888200	0.024190	0.239909	0.049808	0.003831	0.002153	0.137838	0.000662	0.013363	0.007581	0.002123	0.021233
10-Feb-2027	0.798273	13.841300	21.699000	3.389000	48.517628	1.894660	0.024273	0.240729	0.049978	0.003844	0.002160	0.138308	0.000664	0.013409	0.007607	0.002131	0.021306
11-Feb-2027	0.798260	13.897200	21.786700	3.402680	48.713545	1.902320	0.024371	0.241702	0.050180	0.003860	0.002169	0.138866	0.000667	0.013463	0.007638	0.002139	0.021392

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
12-Feb-2027	0.798247	13.942300	21.857400	3.413720	48.871622	1.908500	0.024450	0.242486	0.050342	0.003872	0.002176	0.139316	0.000669	0.013506	0.007663	0.002146	0.021461
13-Feb-2027	0.798231	14.006200	21.957700	3.429370	49.095627	1.917250	0.024562	0.243598	0.050573	0.003890	0.002186	0.139955	0.000672	0.013568	0.007698	0.002156	0.021559
14-Feb-2027	0.798213	14.067300	22.053500	3.444330	49.309799	1.925620	0.024669	0.244661	0.050793	0.003907	0.002195	0.140565	0.000675	0.013628	0.007731	0.002165	0.021653
15-Feb-2027	0.798194	14.129200	22.150500	3.459490	49.526792	1.934090	0.024778	0.245738	0.051017	0.003924	0.002205	0.141183	0.000678	0.013688	0.007765	0.002175	0.021749
16-Feb-2027	0.798187	14.188700	22.243700	3.474030	49.735239	1.942230	0.024882	0.246772	0.051231	0.003941	0.002214	0.141777	0.000681	0.013745	0.007798	0.002184	0.021840
17-Feb-2027	0.798182	14.247300	22.335600	3.488380	49.940657	1.950260	0.024985	0.247791	0.051443	0.003957	0.002223	0.142362	0.000683	0.013802	0.007830	0.002193	0.021931
18-Feb-2027	0.798174	14.321100	22.451400	3.506450	50.199348	1.960370	0.025115	0.249075	0.051709	0.003977	0.002235	0.143098	0.000687	0.013873	0.007871	0.002204	0.022044
19-Feb-2027	0.798168	14.394500	22.566500	3.524420	50.456628	1.970420	0.025243	0.250352	0.051974	0.003998	0.002246	0.143831	0.000691	0.013945	0.007911	0.002216	0.022157
20-Feb-2027	0.798165	14.462300	22.672800	3.541010	50.694242	1.979700	0.025362	0.251531	0.052219	0.004017	0.002257	0.144508	0.000694	0.014010	0.007948	0.002226	0.022262
21-Feb-2027	0.798160	14.529700	22.778500	3.557510	50.930487	1.988930	0.025480	0.252703	0.052462	0.004035	0.002267	0.145180	0.000697	0.014075	0.007985	0.002237	0.022365
22-Feb-2027	0.798147	14.594800	22.880600	3.573440	51.158642	1.997850	0.025595	0.253836	0.052697	0.004053	0.002278	0.145830	0.000700	0.014139	0.008021	0.002247	0.022466
23-Feb-2027	0.798135	14.663600	22.988400	3.590270	51.399741	2.007270	0.025715	0.255032	0.052945	0.004073	0.002288	0.146516	0.000703	0.014205	0.008059	0.002257	0.022571
24-Feb-2027	0.798129	14.783100	23.175700	3.619510	51.818543	2.023620	0.025925	0.257110	0.053377	0.004106	0.002307	0.147709	0.000709	0.014321	0.008125	0.002276	0.022755
25-Feb-2027	0.798126	14.720400	23.077500	3.604170	51.598811	2.015040	0.025815	0.256020	0.053150	0.004088	0.002297	0.147083	0.000706	0.014260	0.008090	0.002266	0.022659
26-Feb-2027	0.798120	14.800900	23.203700	3.623870	51.880944	2.026060	0.025956	0.257420	0.053441	0.004111	0.002310	0.147887	0.000710	0.014338	0.008134	0.002278	0.022783
27-Feb-2027	0.798113	14.884700	23.335100	3.644390	52.174694	2.037540	0.026103	0.258877	0.053744	0.004134	0.002323	0.148724	0.000714	0.014419	0.008180	0.002291	0.022912
28-Feb-2027	0.798106	14.972800	23.473200	3.665950	52.483464	2.049600	0.026257	0.260409	0.054062	0.004158	0.002337	0.149604	0.000718	0.014505	0.008229	0.002305	0.023047
1-Mar-2027	0.798097	15.064800	23.617500	3.688480	52.805966	2.062190	0.026419	0.262010	0.054394	0.004184	0.002351	0.150523	0.000723	0.014594	0.008279	0.002319	0.023189
2-Mar-2027	0.798090	15.157000	23.762000	3.711060	53.129174	2.074820	0.026580	0.263614	0.054727	0.004210	0.002365	0.151444	0.000727	0.014683	0.008330	0.002333	0.023331
3-Mar-2027	0.798083	15.250800	23.909000	3.734010	53.457901	2.087650	0.026745	0.265244	0.055065	0.004236	0.002380	0.152381	0.000732	0.014774	0.008382	0.002348	0.023475
4-Mar-2027	0.798073	15.349300	24.063500	3.758140	53.803223	2.101140	0.026918	0.266958	0.055421	0.004263	0.002395	0.153365	0.000736	0.014869	0.008436	0.002363	0.023627
5-Mar-2027	0.798063	15.448600	24.219200	3.782450	54.151283	2.114730	0.027092	0.268685	0.055780	0.004291	0.002411	0.154358	0.000741	0.014966	0.008490	0.002378	0.023780
6-Mar-2027	0.798055	15.542400	24.366200	3.805410	54.480051	2.127570	0.027256	0.270316	0.056118	0.004317	0.002425	0.155294	0.000746	0.015056	0.008542	0.002392	0.023924
7-Mar-2027	0.798048	15.628300	24.500900	3.826440	54.781145	2.139330	0.027407	0.271810	0.056428	0.004340	0.002439	0.156152	0.000750	0.015140	0.008589	0.002406	0.024056
8-Mar-2027	0.798042	15.725400	24.653000	3.850200	55.121447	2.152620	0.027577	0.273498	0.056779	0.004367	0.002454	0.157122	0.000754	0.015234	0.008643	0.002421	0.024206
9-Mar-2027	0.798038	15.831900	24.820000	3.876280	55.494775	2.167200	0.027764	0.275351	0.057163	0.004397	0.002471	0.158186	0.000759	0.015337	0.008701	0.002437	0.024370
10-Mar-2027	0.798035	15.938200	24.986800	3.902330	55.867480	2.181760	0.027950	0.277201	0.057547	0.004426	0.002487	0.159249	0.000765	0.015440	0.008760	0.002453	0.024533
11-Mar-2027	0.798032	16.047300	25.157800	3.929040	56.249895	2.196690	0.028142	0.279098	0.057941	0.004457	0.002504	0.160339	0.000770	0.015545	0.008819	0.002470	0.024701
12-Mar-2027	0.798031	16.150800	25.320000	3.954370	56.612643	2.210860	0.028323	0.280898	0.058315	0.004486	0.002520	0.161373	0.000775	0.015646	0.008876	0.002486	0.024861
13-Mar-2027	0.798031	16.249000	25.473900	3.978410	56.956845	2.224300	0.028495	0.282605	0.058669	0.004513	0.002536	0.162354	0.000780	0.015741	0.008930	0.002501	0.025012
14-Mar-2027	0.798032	16.385100	25.687300	4.011750	57.433981	2.242930	0.028734	0.284973	0.059161	0.004551	0.002557	0.163715	0.000786	0.015873	0.009005	0.002522	0.025221
15-Mar-2027	0.798032	16.551200	25.947700	4.052420	58.016212	2.265660	0.029025	0.287862	0.059761	0.004597	0.002583	0.165375	0.000794	0.016034	0.009096	0.002548	0.025477
16-Mar-2027	0.798033	16.726100	26.221900	4.095240	58.629270	2.289600	0.029332	0.290904	0.060392	0.004645	0.002610	0.167122	0.000802	0.016203	0.009193	0.002575	0.025746
17-Mar-2027	0.798035	16.905900	26.503700	4.139250	59.259464	2.314210	0.029647	0.294030	0.061041	0.004695	0.002638	0.168918	0.000811	0.016377	0.009291	0.002602	0.026023
18-Mar-2027	0.798036	17.094400	26.799300	4.185410	59.920235	2.340020	0.029978	0.297309	0.061722	0.004748	0.002668	0.170802	0.000820	0.016560	0.009395	0.002631	0.026313
19-Mar-2027	0.798037	17.288800	27.104000	4.233010	60.601669	2.366630	0.030319	0.300690	0.062424	0.004802	0.002698	0.172744	0.000829	0.016748	0.009502	0.002661	0.026612
20-Mar-2027	0.798038	17.488100	27.416600	4.281820	61.300320	2.393920	0.030668	0.304157	0.063144	0.004857	0.002729	0.174736	0.000839	0.016941	0.009611	0.002692	0.026919
21-Mar-2027	0.798039	17.691500	27.735300	4.331600	62.013204	2.421750	0.031025	0.307693	0.063878	0.004913	0.002761	0.176768	0.000849	0.017138	0.009723	0.002723	0.027232
22-Mar-2027	0.798040	17.896400	28.056600	4.381780	62.731481	2.449810	0.031384	0.311258	0.064618	0.004970	0.002793	0.178815	0.000859	0.017337	0.009836	0.002755	0.027548
23-Mar-2027	0.798040	18.103300	28.381000	4.432430	63.456687	2.478130	0.031747	0.314856	0.065365	0.005028	0.002825	0.180883	0.000868	0.017537	0.009949	0.002787	0.027866
24-Mar-2027	0.798041	18.312100	28.708300	4.483550	64.188573	2.506700	0.032113	0.318487	0.066119	0.005086	0.002858	0.182969	0.000878	0.017739	0.010064	0.002819	0.028187
25-Mar-2027	0.798041	18.523400	29.039500	4.535280	64.929213	2.535630	0.032484	0.322162	0.066882	0.005144	0.002891	0.185080	0.000889	0.017944	0.010180	0.002851	0.028513
26-Mar-2027	0.798042	18.737500	29.375200	4.587710	65.679727	2.564940	0.032859	0.325886	0.067655	0.005204	0.002924	0.187219	0.000899	0.018152	0.010298	0.002884	0.028842
27-Mar-2027	0.798042	18.953900	29.714400	4.640680	66.438209	2.594560	0.033239	0.329649	0.068436	0.005264	0.002958	0.189381	0.000909	0.018361	0.010417	0.002918	0.029175
28-Mar-2027	0.798042	19.172200	30.056700	4.694150	67.203493	2.624450	0.033622	0.333447	0.069224	0.005325	0.002992	0.191563	0.000920	0.018573	0.010537	0.002951	0.029511
29-Mar-2027	0.798043	19.392200	30.401700	4.748020	67.974670	2.654570	0.034008	0.337274	0.070019	0.005386	0.003026	0.193762	0.000930	0.018786	0.010658	0.002985	0.029850
30-Mar-2027	0.798043	19.613600	30.748700	4.802220	68.750701	2.684870	0.034396	0.341123	0.070818	0.005447	0.003061	0.195973	0.000941	0.019000	0.010779	0.003019	0.030191
31-Mar-2027	0.798043	19.835000	31.095800	4.856430	69.526774	2.715180	0.034784	0.344974	0.071617	0.005509	0.003095	0.198186	0.000952	0.019215	0.010901	0.003053	0.030532
1-Apr-2027	0.798044	20.057000	31.443800	4.910780	70.304921	2.745560	0.035173	0.348835	0.072419	0.005570	0.003130	0.200404	0.000962	0.019430	0.011023	0.003087	0.030873
2-Apr-2027	0.798044	20.226300	31.709200	4.952220	70.898313	2.768730	0.035470	0.351779	0.073030	0.005617	0.003156	0.202095	0.000970	0.019594	0.011116	0.003113	0.031134
3-Apr-2027	0.798044	20.091000	31.497200	4.919110	70.424122	2.750220	0.035233	0.349427	0.072542	0.005580	0.003135	0.200744	0.000964	0.019463	0.011042	0.003093	0.030926
4-Apr-2027	0.798044	19.932400	31.248500	4.880270	69.868155	2.728510	0.034955	0.346668	0.071969	0.005536	0.003111	0.199159	0.000956	0.019309	0.010955	0.003068	0.030681

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Apr-2027	0.798044	19.795600	31.034000	4.846780	69.388653	2.709780	0.034715	0.344289	0.071475	0.005498	0.003089	0.197792	0.000950	0.019177	0.010880	0.003047	0.030471
6-Apr-2027	0.798044	19.675900	30.846400	4.817480	68.969105	2.693400	0.034505	0.342207	0.071043	0.005465	0.003070	0.196596	0.000944	0.019061	0.010814	0.003029	0.030287
7-Apr-2027	0.798044	19.569100	30.678900	4.791320	68.594698	2.678770	0.034318	0.340349	0.070657	0.005435	0.003054	0.195529	0.000939	0.018957	0.010755	0.003012	0.030122
8-Apr-2027	0.798044	19.472200	30.527000	4.767600	68.255060	2.665510	0.034148	0.338664	0.070307	0.005408	0.003039	0.194561	0.000934	0.018863	0.010702	0.002997	0.029973
9-Apr-2027	0.798044	19.383800	30.388400	4.745950	67.945171	2.653410	0.033993	0.337126	0.069988	0.005383	0.003025	0.193677	0.000930	0.018778	0.010653	0.002984	0.029837
10-Apr-2027	0.798044	19.302800	30.261400	4.726120	67.661254	2.642320	0.033851	0.335717	0.069696	0.005361	0.003012	0.192868	0.000926	0.018699	0.010609	0.002971	0.029712
11-Apr-2027	0.798044	19.228300	30.144700	4.707880	67.400115	2.632120	0.033720	0.334422	0.069427	0.005340	0.003001	0.192124	0.000922	0.018627	0.010568	0.002960	0.029598
12-Apr-2027	0.798044	19.159500	30.036800	4.691040	67.158974	2.622710	0.033599	0.333226	0.069178	0.005321	0.002990	0.191436	0.000919	0.018560	0.010530	0.002949	0.029492
13-Apr-2027	0.798044	19.095700	29.936800	4.675420	66.935342	2.613970	0.033488	0.332116	0.068948	0.005303	0.002980	0.190799	0.000916	0.018499	0.010495	0.002939	0.029394
14-Apr-2027	0.798044	19.036600	29.844100	4.660940	66.728141	2.605880	0.033384	0.331088	0.068735	0.005287	0.002971	0.190208	0.000913	0.018441	0.010462	0.002930	0.029303
15-Apr-2027	0.798044	18.981900	29.758400	4.647570	66.536498	2.598400	0.033288	0.330138	0.068537	0.005272	0.002962	0.189662	0.000911	0.018388	0.010432	0.002922	0.029219
16-Apr-2027	0.798045	18.931400	29.679200	4.635190	66.359418	2.591480	0.033199	0.329259	0.068355	0.005258	0.002954	0.189157	0.000908	0.018339	0.010405	0.002914	0.029141
17-Apr-2027	0.798045	18.884500	29.605600	4.623700	66.194993	2.585060	0.033117	0.328443	0.068185	0.005245	0.002947	0.188689	0.000906	0.018294	0.010379	0.002907	0.029068
18-Apr-2027	0.798045	18.840800	29.537200	4.613020	66.041894	2.579080	0.033041	0.327683	0.068028	0.005233	0.002940	0.188252	0.000904	0.018252	0.010355	0.002900	0.029001
19-Apr-2027	0.798045	18.800200	29.473500	4.603070	65.899542	2.573520	0.032969	0.326977	0.067881	0.005221	0.002934	0.187847	0.000902	0.018212	0.010332	0.002894	0.028939
20-Apr-2027	0.798045	18.762400	29.414300	4.593820	65.767064	2.568350	0.032903	0.326320	0.067745	0.005211	0.002928	0.187469	0.000900	0.018176	0.010312	0.002888	0.028881
21-Apr-2027	0.798045	18.727300	29.359200	4.585210	65.643963	2.563540	0.032841	0.325708	0.067618	0.005201	0.002922	0.187118	0.000898	0.018142	0.010292	0.002883	0.028826
22-Apr-2027	0.798045	18.694600	29.307900	4.577200	65.529326	2.559060	0.032784	0.325139	0.067500	0.005192	0.002917	0.186791	0.000897	0.018110	0.010274	0.002878	0.028776
23-Apr-2027	0.798045	18.664200	29.260300	4.569770	65.422820	2.554910	0.032731	0.324612	0.067390	0.005184	0.002913	0.186488	0.000895	0.018081	0.010258	0.002873	0.028729
24-Apr-2027	0.798045	18.636200	29.216300	4.562900	65.324614	2.551070	0.032682	0.324124	0.067289	0.005176	0.002908	0.186207	0.000894	0.018053	0.010242	0.002869	0.028686
25-Apr-2027	0.798046	18.610200	29.175700	4.556560	65.233583	2.547520	0.032636	0.323673	0.067195	0.005169	0.002904	0.185948	0.000893	0.018028	0.010228	0.002865	0.028646
26-Apr-2027	0.798046	18.586200	29.138000	4.550680	65.149442	2.544230	0.032594	0.323255	0.067109	0.005162	0.002900	0.185708	0.000892	0.018005	0.010215	0.002861	0.028609
27-Apr-2027	0.798045	18.310900	28.706400	4.483270	64.184423	2.506540	0.032111	0.318467	0.066114	0.005085	0.002857	0.182957	0.000878	0.017738	0.010064	0.002819	0.028186
28-Apr-2027	0.798045	18.288700	28.671500	4.477820	64.106547	2.503500	0.032072	0.318080	0.066034	0.005079	0.002854	0.182735	0.000877	0.017717	0.010051	0.002815	0.028151
29-Apr-2027	0.798045	18.267800	28.638800	4.472710	64.033316	2.500640	0.032036	0.317717	0.065959	0.005073	0.002851	0.182527	0.000876	0.017697	0.010040	0.002812	0.028119
30-Apr-2027	0.798031	18.244300	28.602100	4.466970	63.951000	2.497430	0.031995	0.317309	0.065874	0.005067	0.002847	0.182292	0.000875	0.017674	0.010027	0.002808	0.028083
1-May-2027	0.797881	18.186300	28.511000	4.452750	63.747616	2.489480	0.031893	0.316299	0.065664	0.005051	0.002838	0.181712	0.000872	0.017618	0.009995	0.002799	0.027994
2-May-2027	0.797040	18.197300	28.528400	4.455460	63.786242	2.491000	0.031912	0.316492	0.065704	0.005054	0.002840	0.181823	0.000873	0.017628	0.010001	0.002801	0.028011
3-May-2027	0.793197	18.126700	28.417800	4.438160	63.538713	2.481340	0.031788	0.315264	0.065449	0.005034	0.002829	0.181115	0.000870	0.017560	0.009962	0.002790	0.027902
4-May-2027	0.788972	18.183400	28.506600	4.452050	63.737492	2.489100	0.031888	0.316250	0.065654	0.005050	0.002838	0.181683	0.000872	0.017615	0.009993	0.002799	0.027989
5-May-2027	0.785415	18.007000	28.230000	4.408850	63.119123	2.464940	0.031578	0.313181	0.065017	0.005001	0.002810	0.179920	0.000864	0.017444	0.009896	0.002772	0.027718
6-May-2027	0.781909	17.772000	27.861700	4.351320	62.295420	2.432780	0.031166	0.309095	0.064169	0.004936	0.002773	0.177572	0.000853	0.017216	0.009767	0.002736	0.027356
7-May-2027	0.778872	17.499400	27.434300	4.284580	61.339902	2.395470	0.030688	0.304354	0.063184	0.004860	0.002731	0.174849	0.000839	0.016952	0.009618	0.002694	0.026937
8-May-2027	0.777034	17.223400	27.001600	4.217000	60.372436	2.357690	0.030204	0.299553	0.062188	0.004783	0.002688	0.172091	0.000826	0.016685	0.009466	0.002651	0.026512
9-May-2027	0.777192	16.984000	26.626300	4.158380	59.533257	2.324910	0.029784	0.295389	0.061323	0.004717	0.002650	0.169698	0.000815	0.016453	0.009334	0.002614	0.026143
10-May-2027	0.777709	16.841100	26.402200	4.123390	59.032347	2.305350	0.029534	0.292904	0.060807	0.004677	0.002628	0.168271	0.000808	0.016314	0.009256	0.002592	0.025923
11-May-2027	0.778039	16.776100	26.300300	4.107480	58.804524	2.296450	0.029420	0.291774	0.060573	0.004659	0.002618	0.167621	0.000805	0.016251	0.009220	0.002582	0.025823
12-May-2027	0.779190	16.653600	26.108300	4.077490	58.375143	2.279690	0.029205	0.289643	0.060131	0.004625	0.002599	0.166398	0.000799	0.016133	0.009153	0.002563	0.025635
13-May-2027	0.781551	16.467300	25.816100	4.031850	57.722006	2.254170	0.028878	0.286402	0.059457	0.004573	0.002570	0.164535	0.000790	0.015952	0.009050	0.002535	0.025348
14-May-2027	0.786421	16.280900	25.523900	3.986220	57.068661	2.228660	0.028551	0.283160	0.058785	0.004522	0.002541	0.162673	0.000781	0.015772	0.008948	0.002506	0.025061
15-May-2027	0.796922	15.759100	24.706000	3.858470	55.239652	2.157240	0.027636	0.274086	0.056901	0.004377	0.002459	0.157459	0.000756	0.015266	0.008661	0.002426	0.024258
16-May-2027	0.810337	15.612800	24.476700	3.822650	54.726834	2.137220	0.027380	0.271542	0.056372	0.004336	0.002436	0.155997	0.000749	0.015125	0.008581	0.002403	0.024033
17-May-2027	0.819590	15.440200	24.206000	3.780380	54.121784	2.113580	0.027077	0.268539	0.055749	0.004288	0.002409	0.154272	0.000741	0.014957	0.008486	0.002377	0.023767
18-May-2027	0.827590	15.279200	23.953500	3.740950	53.557395	2.091540	0.026795	0.265738	0.055168	0.004243	0.002384	0.152663	0.000733	0.014801	0.008397	0.002352	0.023519
19-May-2027	0.825905	15.092100	23.660200	3.695150	52.901601	2.065930	0.026466	0.262484	0.054492	0.004191	0.002355	0.150794	0.000724	0.014620	0.008294	0.002323	0.023231
20-May-2027	0.824442	14.730800	23.093800	3.606720	51.635281	2.016450	0.025833	0.256198	0.053189	0.004091	0.002299	0.147186	0.000707	0.014270	0.008096	0.002267	0.022675
21-May-2027	0.828184	14.340800	22.482400	3.511260	50.268346	1.963070	0.025149	0.249415	0.051782	0.003983	0.002238	0.143291	0.000688	0.013893	0.007882	0.002207	0.022074
22-May-2027	0.836563	13.961100	21.886700	3.418340	48.937591	1.911020	0.024482	0.242804	0.050414	0.003877	0.002179	0.139501	0.000670	0.013525	0.007673	0.002149	0.021490
23-May-2027	0.850240	13.737900	21.536800	3.363690	48.155212	1.880470	0.024091	0.238922	0.049608	0.003815	0.002144	0.137271	0.000659	0.013309	0.007550	0.002115	0.021146
24-May-2027	0.863683	13.456700	21.095900	3.294890	47.169737	1.841950	0.023597	0.234028	0.048595	0.003737	0.002100	0.134465	0.000646	0.013037	0.007396	0.002071	0.020713
25-May-2027	0.874161	13.064000	20.480200	3.198780	45.793384	1.788170	0.022909	0.227197	0.047179	0.003628	0.002039	0.130544	0.000627	0.012656	0.007180	0.002011	0.020109
26-May-2027	0.882485	12.795300	20.058800	3.133010	44.851599	1.751370	0.022437	0.222521	0.046209	0.003553	0.001997	0.127861	0.000614	0.012396	0.007032	0.001969	0.019695

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
27-May-2027	0.894979	12.480500	19.565200	3.055970	43.748293	1.708250	0.021885	0.217043	0.045074	0.003466	0.001948	0.124717	0.000599	0.012091	0.006859	0.001921	0.019210
28-May-2027	0.906048	12.341100	19.346600	3.021830	43.259623	1.689170	0.021640	0.214618	0.044571	0.003427	0.001926	0.123325	0.000592	0.011956	0.006782	0.001900	0.018996
29-May-2027	0.923518	12.216000	19.150400	2.991230	42.821237	1.672030	0.021421	0.212442	0.044120	0.003392	0.001907	0.122076	0.000586	0.011835	0.006714	0.001880	0.018803
30-May-2027	0.934588	12.161000	19.064100	2.977790	42.628556	1.664480	0.021324	0.211483	0.043922	0.003377	0.001898	0.121529	0.000583	0.011782	0.006683	0.001872	0.018718
31-May-2027	0.942599	12.075000	18.929200	2.956780	42.327295	1.652690	0.021173	0.209986	0.043613	0.003353	0.001885	0.120674	0.000579	0.011699	0.006636	0.001859	0.018586
1-Jun-2027	1.006057	11.910400	18.670500	2.916640	41.750992	1.630040	0.020884	0.207112	0.043028	0.003307	0.001860	0.119042	0.000571	0.011540	0.006546	0.001833	0.018332
2-Jun-2027	1.119967	11.681700	18.291900	2.866480	40.973370	1.594750	0.020461	0.202936	0.042510	0.003238	0.001835	0.117201	0.000559	0.011344	0.006417	0.001799	0.017990
3-Jun-2027	1.270484	11.570400	18.113900	2.840260	40.587479	1.578850	0.020262	0.200964	0.045928	0.003206	0.001876	0.116168	0.000554	0.011241	0.006355	0.001782	0.017820
4-Jun-2027	1.536116	11.453800	17.910000	2.822800	40.224429	1.559580	0.020036	0.198728	0.043090	0.003169	0.001841	0.116184	0.000547	0.011177	0.006288	0.001766	0.017656
5-Jun-2027	1.540996	11.163400	17.394300	2.765970	39.265274	1.508930	0.019464	0.193092	0.042320	0.003072	0.001809	0.114035	0.000530	0.010959	0.006120	0.001724	0.017236
6-Jun-2027	1.564456	10.983600	17.086000	2.727990	38.659912	1.479280	0.019120	0.189698	0.041885	0.003014	0.001788	0.112688	0.000520	0.010812	0.006017	0.001697	0.016970
7-Jun-2027	1.502562	10.788300	16.762300	2.685270	37.996327	1.448760	0.018758	0.186113	0.041781	0.002955	0.001775	0.111118	0.000510	0.010645	0.005907	0.001668	0.016678
8-Jun-2027	1.475248	10.560600	16.374000	2.638590	37.235532	1.411290	0.018324	0.181818	0.041557	0.002882	0.001761	0.109524	0.000497	0.010464	0.005778	0.001634	0.016342
9-Jun-2027	1.510847	10.367200	16.049600	2.597410	36.583033	1.380490	0.017960	0.178202	0.041325	0.002822	0.001750	0.108209	0.000487	0.010304	0.005668	0.001605	0.016054
10-Jun-2027	1.656608	10.205100	15.771500	2.564660	36.043405	1.353460	0.017648	0.175110	0.041082	0.002770	0.001740	0.107506	0.000478	0.010177	0.005576	0.001581	0.015815
11-Jun-2027	1.882763	10.056200	15.515500	2.536840	35.557039	1.328530	0.017360	0.172265	0.040841	0.002722	0.001729	0.106669	0.000469	0.010079	0.005491	0.001560	0.015596
12-Jun-2027	2.108988	9.855830	15.166700	2.495790	34.887671	1.294920	0.016970	0.168396	0.040464	0.002657	0.001710	0.105101	0.000458	0.009912	0.005375	0.001530	0.015303
13-Jun-2027	2.282220	9.694590	14.900600	2.460080	34.338001	1.269260	0.016665	0.165308	0.040114	0.002608	0.001693	0.103699	0.000450	0.009773	0.005285	0.001506	0.015057
14-Jun-2027	2.587430	9.456410	14.473900	2.423100	33.590982	1.227370	0.016187	0.160589	0.039785	0.002528	0.001678	0.102617	0.000436	0.009637	0.005144	0.001473	0.014731
15-Jun-2027	2.819619	9.280900	14.180800	2.378880	32.970635	1.198510	0.015860	0.157108	0.039179	0.002474	0.001651	0.100793	0.000426	0.009462	0.005047	0.001445	0.014450
16-Jun-2027	3.103381	9.157010	13.972900	2.352070	32.550878	1.178840	0.015624	0.154634	0.039052	0.002436	0.001641	0.099859	0.000419	0.009359	0.004977	0.001426	0.014261
17-Jun-2027	3.296981	8.958650	13.632400	2.311410	31.888135	1.145970	0.015244	0.150710	0.038626	0.002375	0.001622	0.098554	0.000408	0.009204	0.004864	0.001396	0.013963
18-Jun-2027	3.596254	8.744570	13.261100	2.269560	31.181239	1.110010	0.014839	0.146526	0.038461	0.002309	0.001611	0.097378	0.000396	0.009046	0.004742	0.001364	0.013644
19-Jun-2027	3.696111	8.692750	13.174700	2.256970	30.999999	1.101930	0.014742	0.145569	0.038357	0.002293	0.001600	0.096878	0.000393	0.008998	0.004712	0.001356	0.013564
20-Jun-2027	3.914149	8.457110	12.763100	2.211520	30.224443	1.062200	0.014302	0.141066	0.038168	0.002222	0.001586	0.095680	0.000380	0.008824	0.004577	0.001322	0.013221
21-Jun-2027	3.997284	8.337180	12.556500	2.185390	29.817374	1.042310	0.014079	0.138731	0.037969	0.002186	0.001575	0.094874	0.000373	0.008731	0.004510	0.001303	0.013031
22-Jun-2027	4.137723	8.212630	12.339300	2.161620	29.408488	1.021220	0.013846	0.136355	0.037824	0.002148	0.001567	0.094160	0.000366	0.008639	0.004438	0.001285	0.012851
23-Jun-2027	4.180922	8.054500	12.063300	2.129560	28.881615	0.994206	0.013540	0.133323	0.037628	0.002098	0.001557	0.093375	0.000357	0.008521	0.004348	0.001261	0.012611
24-Jun-2027	4.302874	7.933690	11.852100	2.105770	28.481985	0.973566	0.013309	0.130995	0.037485	0.002061	0.001548	0.092649	0.000350	0.008432	0.004279	0.001243	0.012432
25-Jun-2027	4.424897	7.802530	11.625500	2.080290	28.049552	0.950954	0.013042	0.128467	0.037287	0.002016	0.001543	0.091926	0.000343	0.008332	0.004203	0.001224	0.012240
26-Jun-2027	4.712988	7.657020	11.368400	2.052520	27.571856	0.926175	0.012769	0.125654	0.037129	0.001974	0.001533	0.091273	0.000334	0.008228	0.004120	0.001203	0.012026
27-Jun-2027	4.858793	7.523350	11.137000	2.025780	27.127967	0.903671	0.012515	0.123069	0.036914	0.001934	0.001522	0.090543	0.000327	0.008128	0.004044	0.001182	0.011825
28-Jun-2027	5.137324	7.400690	10.923500	1.999780	26.714617	0.882968	0.012278	0.120668	0.036798	0.001897	0.001518	0.089752	0.000320	0.008035	0.003974	0.001163	0.011632
29-Jun-2027	5.408671	7.254710	10.665800	1.972570	26.238054	0.857661	0.011998	0.117821	0.036606	0.001853	0.001505	0.089080	0.000311	0.007930	0.003891	0.001142	0.011420
30-Jun-2027	5.571363	7.121480	10.431700	1.945610	25.794358	0.834749	0.011742	0.115239	0.036445	0.001812	0.001496	0.088407	0.000304	0.007834	0.003814	0.001122	0.011217
1-Jul-2027	5.977357	7.121720	10.451800	1.936240	25.756371	0.837684	0.011718	0.115105	0.036356	0.001810	0.001484	0.087648	0.000305	0.007829	0.003821	0.001122	0.011221
2-Jul-2027	6.151275	7.125380	10.512100	1.906970	25.644976	0.849303	0.011708	0.114894	0.035631	0.001836	0.001448	0.086284	0.000308	0.007815	0.003846	0.001119	0.011195
3-Jul-2027	7.770693	6.671090	9.741310	1.807100	24.099350	0.777860	0.010869	0.106479	0.034384	0.001722	0.001399	0.083715	0.000284	0.007450	0.003593	0.001048	0.010483
4-Jul-2027	8.891812	6.668910	9.756560	1.799890	24.064215	0.780968	0.010862	0.106448	0.034216	0.001729	0.001387	0.083478	0.000284	0.007431	0.003596	0.001048	0.010477
5-Jul-2027	11.483854	6.261140	9.011260	1.732930	22.770272	0.707634	0.010139	0.099196	0.033543	0.001617	0.001375	0.082816	0.000260	0.007138	0.003354	0.000985	0.009852
6-Jul-2027	13.047940	6.702570	9.808740	1.803900	24.164777	0.787848	0.010957	0.107383	0.034105	0.001765	0.001386	0.084924	0.000286	0.007469	0.003619	0.001051	0.010514
7-Jul-2027	14.013881	7.056170	10.447400	1.858280	25.271654	0.852464	0.011616	0.113939	0.034615	0.001883	0.001393	0.086375	0.000308	0.007737	0.003835	0.001104	0.011041
8-Jul-2027	15.068760	6.577960	9.568280	1.785300	23.777032	0.764722	0.010757	0.105327	0.033895	0.001746	0.001383	0.084930	0.000279	0.007388	0.003545	0.001031	0.010312
9-Jul-2027	13.778094	6.878950	10.135200	1.829850	24.712060	0.820895	0.011279	0.110595	0.034214	0.001818	0.001387	0.084759	0.000297	0.007590	0.003727	0.001078	0.010776
10-Jul-2027	16.226367	6.522790	9.489240	1.776750	23.604063	0.755898	0.010622	0.104031	0.033567	0.001708	0.001379	0.083594	0.000276	0.007309	0.003508	0.001023	0.010235
11-Jul-2027	15.979583	6.896820	10.177000	1.836310	24.783284	0.824491	0.011295	0.110790	0.033958	0.001819	0.001386	0.084489	0.000299	0.007570	0.003732	0.001080	0.010801
12-Jul-2027	15.773148	6.998610	10.366900	1.855550	25.116684	0.843136	0.011473	0.112590	0.034010	0.001849	0.001389	0.084732	0.000305	0.007630	0.003791	0.001095	0.010954
13-Jul-2027	15.840571	6.802020	10.001200	1.822940	24.491511	0.806878	0.011124	0.109067	0.033761	0.001795	0.001385	0.084418	0.000293	0.007497	0.003674	0.001065	0.010653
14-Jul-2027	16.662069	6.698010	9.804680	1.807640	24.168792	0.787442	0.010944	0.107261	0.033631	0.001771	0.001384	0.084524	0.000286	0.007428	0.003611	0.001049	0.010491
15-Jul-2027	16.733267	7.704240	11.641000	1.961150	27.313503	0.971676	0.012778	0.125609	0.035069	0.002077	0.001405	0.087423	0.000348	0.008182	0.004222	0.001201	0.012014
16-Jul-2027	16.908763	7.257470	10.829900	1.893980	25.921312	0.890009	0.011956	0.117394	0.034350	0.001937	0.001395	0.085935	0.000321	0.007836	0.003949	0.001134	0.011339
17-Jul-2027	16.530027	6.986890	10.334500	1.853660	25.079636	0.840235	0.011460	0.112417	0.033904	0.001857	0.001390	0.085261	0.000304	0.007630	0.003784	0.001093	0.010925

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Jul-2027	16.787023	7.006780	10.362200	1.858270	25.148286	0.843322	0.011509	0.112875	0.033920	0.001874	0.001392	0.085879	0.000305	0.007651	0.003796	0.001095	0.010948
19-Jul-2027	16.256537	6.999670	10.356700	1.858350	25.130861	0.842345	0.011483	0.112648	0.033795	0.001865	0.001391	0.085491	0.000305	0.007628	0.003789	0.001094	0.010940
20-Jul-2027	15.878585	6.949060	10.262600	1.851510	24.976321	0.832931	0.011393	0.111742	0.033686	0.001853	0.001390	0.085490	0.000302	0.007589	0.003757	0.001086	0.010861
21-Jul-2027	16.328687	7.358150	11.012100	1.915380	26.260835	0.907881	0.012133	0.119164	0.034189	0.001976	0.001398	0.086565	0.000327	0.007884	0.004004	0.001148	0.011480
22-Jul-2027	17.079358	7.438900	11.161200	1.931240	26.527780	0.922484	0.012274	0.120565	0.034168	0.002002	0.001400	0.087096	0.000332	0.007926	0.004049	0.001160	0.011599
23-Jul-2027	16.012744	7.001580	10.358400	1.862720	25.153626	0.842208	0.011482	0.112622	0.033590	0.001872	0.001392	0.085758	0.000305	0.007613	0.003786	0.001093	0.010934
24-Jul-2027	16.246535	8.019070	12.216400	2.017770	28.332795	1.028570	0.013335	0.131162	0.035045	0.002180	0.001413	0.088620	0.000367	0.008374	0.004404	0.001247	0.012475
25-Jul-2027	15.677575	7.176060	10.676800	1.891140	25.706336	0.874020	0.011798	0.115780	0.033749	0.001927	0.001396	0.086345	0.000316	0.007735	0.003890	0.001120	0.011195
26-Jul-2027	15.756338	7.138190	10.608500	1.886670	25.593367	0.866953	0.011723	0.115018	0.033609	0.001915	0.001395	0.086219	0.000313	0.007699	0.003865	0.001113	0.011135
27-Jul-2027	14.952387	7.168430	10.664400	1.892180	25.691567	0.872473	0.011776	0.115567	0.033602	0.001925	0.001396	0.086316	0.000315	0.007716	0.003883	0.001118	0.011180
28-Jul-2027	14.630398	7.194510	10.713000	1.896930	25.776249	0.877214	0.011820	0.116001	0.033588	0.001932	0.001396	0.086354	0.000317	0.007730	0.003897	0.001122	0.011219
29-Jul-2027	14.764058	7.325880	10.954200	1.917640	26.189564	0.901253	0.012055	0.118350	0.033728	0.001971	0.001399	0.086670	0.000325	0.007823	0.003976	0.001142	0.011416
30-Jul-2027	14.043408	7.470850	11.223100	1.941860	26.651292	0.927901	0.012313	0.120953	0.033821	0.002013	0.001402	0.086937	0.000334	0.007915	0.004061	0.001164	0.011637
31-Jul-2027	14.197963	7.675650	11.601300	1.975470	27.301084	0.965467	0.012678	0.124632	0.034087	0.002073	0.001406	0.087479	0.000347	0.008052	0.004183	0.001195	0.011947
1-Aug-2027	14.782019	7.964210	12.125300	2.018420	28.198486	1.018220	0.013207	0.129910	0.034463	0.002162	0.001412	0.088355	0.000364	0.008276	0.004359	0.001238	0.012383
2-Aug-2027	14.981946	8.840130	13.730100	2.154740	30.947024	1.178510	0.014780	0.145646	0.035543	0.002426	0.001430	0.090609	0.000418	0.008911	0.004887	0.001371	0.013709
3-Aug-2027	15.000325	8.873110	13.787800	2.159120	31.047412	1.184390	0.014841	0.146230	0.035625	0.002438	0.001431	0.090823	0.000420	0.008942	0.004908	0.001376	0.013758
4-Aug-2027	15.136740	8.252610	12.653500	2.064630	29.108914	1.070570	0.013707	0.134863	0.034715	0.002251	0.001418	0.089132	0.000382	0.008478	0.004532	0.001282	0.012815
5-Aug-2027	15.817781	7.736110	11.712700	1.988000	27.503651	0.975682	0.012748	0.125239	0.033836	0.002093	0.001407	0.087627	0.000350	0.008077	0.004215	0.001203	0.012030
6-Aug-2027	15.671173	7.807850	11.842600	2.000790	27.735455	0.988502	0.012877	0.126517	0.033900	0.002119	0.001409	0.088039	0.000355	0.008130	0.004258	0.001213	0.012134
7-Aug-2027	16.373679	7.762540	11.761300	1.995180	27.599214	0.979882	0.012772	0.125425	0.033698	0.002103	0.001408	0.087779	0.000352	0.008079	0.004228	0.001206	0.012059
8-Aug-2027	16.188508	8.123850	12.414400	2.052400	28.737037	1.045400	0.013427	0.131977	0.034153	0.002224	0.001417	0.089404	0.000374	0.008350	0.004446	0.001260	0.012600
9-Aug-2027	16.640212	7.724010	11.693100	1.992370	27.491433	0.972395	0.012679	0.124493	0.033476	0.002093	0.001408	0.087712	0.000350	0.008033	0.004201	0.001200	0.012000
10-Aug-2027	16.127677	8.046800	12.287000	2.043760	28.509063	1.031350	0.013246	0.130168	0.033808	0.002189	0.001414	0.088459	0.000370	0.008258	0.004394	0.001249	0.012489
11-Aug-2027	15.866840	7.843160	11.913100	2.012390	27.871393	0.993961	0.012878	0.126469	0.033510	0.002129	0.001410	0.087980	0.000357	0.008109	0.004271	0.001218	0.012178
12-Aug-2027	15.397506	7.913800	12.042600	2.024280	28.096744	1.006710	0.012997	0.127658	0.033552	0.002151	0.001412	0.088196	0.000361	0.008155	0.004312	0.001228	0.012283
13-Aug-2027	15.283737	8.430390	12.986900	2.104340	29.716356	1.101080	0.013925	0.136931	0.034231	0.002308	0.001423	0.089660	0.000393	0.008534	0.004624	0.001306	0.013064
14-Aug-2027	14.426642	7.877640	11.979100	2.021410	27.994633	0.999649	0.012907	0.126724	0.033335	0.002139	0.001411	0.088045	0.000359	0.008111	0.004287	0.001222	0.012224
15-Aug-2027	13.514860	8.080810	12.353400	2.054540	28.638378	1.036610	0.013256	0.130210	0.033504	0.002199	0.001415	0.088524	0.000372	0.008248	0.004408	0.001253	0.012531
16-Aug-2027	13.404556	8.032850	12.265700	2.047340	28.488973	1.027790	0.013168	0.129325	0.033430	0.002185	0.001415	0.088398	0.000369	0.008211	0.004378	0.001246	0.012458
17-Aug-2027	13.351994	8.317800	12.785100	2.091510	29.382385	1.079750	0.013681	0.134443	0.033803	0.002274	0.001421	0.089289	0.000386	0.008422	0.004551	0.001289	0.012887
18-Aug-2027	13.504625	8.472700	13.070300	2.116250	29.871049	1.108010	0.013951	0.137137	0.033949	0.002319	0.001424	0.089628	0.000396	0.008529	0.004643	0.001312	0.013121
19-Aug-2027	13.934842	8.249090	12.645000	2.074680	29.141510	1.066380	0.013557	0.133072	0.034024	0.002262	0.001419	0.089645	0.000382	0.008420	0.004518	0.001278	0.012776
20-Aug-2027	13.316885	8.039930	12.274700	2.049510	28.515587	1.028090	0.013149	0.129044	0.033322	0.002192	0.001415	0.088652	0.000369	0.008214	0.004382	0.001246	0.012457
21-Aug-2027	13.384294	8.111150	12.406800	2.061840	28.744199	1.040980	0.013267	0.130219	0.033334	0.002213	0.001417	0.088795	0.000374	0.008257	0.004423	0.001256	0.012563
22-Aug-2027	13.288054	8.144570	12.469600	2.068080	28.853345	1.046960	0.013317	0.130705	0.033310	0.002222	0.001417	0.088823	0.000376	0.008273	0.004442	0.001261	0.012613
23-Aug-2027	13.577938	8.323550	12.798300	2.096290	29.416427	1.079670	0.013634	0.133880	0.033517	0.002275	0.001421	0.089268	0.000387	0.008400	0.004549	0.001288	0.012885
24-Aug-2027	13.374767	8.928500	13.909900	2.191790	31.320256	1.190260	0.014706	0.144602	0.034271	0.002455	0.001433	0.090793	0.000424	0.008828	0.004912	0.001380	0.013803
25-Aug-2027	13.519423	9.172780	14.351400	2.227110	32.075671	1.235030	0.015166	0.149195	0.034640	0.002532	0.001438	0.091573	0.000439	0.009025	0.005063	0.001417	0.014170
26-Aug-2027	13.380712	9.711860	15.337800	2.310430	33.764865	1.333650	0.016136	0.158900	0.035345	0.002694	0.001449	0.093020	0.000472	0.009421	0.005389	0.001499	0.014986
27-Aug-2027	13.256179	8.464200	13.060000	2.122130	29.874039	1.104770	0.013849	0.135994	0.033449	0.002317	0.001424	0.089556	0.000396	0.008476	0.004629	0.001309	0.013093
28-Aug-2027	13.211825	8.907860	13.872000	2.191870	31.269047	1.185640	0.014635	0.143841	0.033957	0.002452	0.001433	0.090781	0.000423	0.008794	0.004896	0.001376	0.013760
29-Aug-2027	12.886104	8.766590	13.620800	2.172620	30.837024	1.159880	0.014363	0.141138	0.033627	0.002404	0.001430	0.090109	0.000414	0.008669	0.004807	0.001355	0.013550
30-Aug-2027	12.132429	8.409740	12.966100	2.118050	29.721251	1.094220	0.013709	0.134569	0.033100	0.002298	0.001423	0.089254	0.000392	0.008405	0.004590	0.001300	0.013005
31-Aug-2027	11.975927	8.806650	13.692200	2.181450	30.973416	1.166330	0.014405	0.141499	0.033526	0.002421	0.001431	0.090436	0.000417	0.008686	0.004828	0.001360	0.013601
1-Sep-2027	11.443794	8.434580	13.010600	2.124020	29.807861	1.098220	0.013734	0.134787	0.033004	0.002310	0.001424	0.089498	0.000394	0.008414	0.004603	0.001304	0.013036
2-Sep-2027	11.148763	8.788700	13.658200	2.177440	30.912082	1.163270	0.014382	0.141274	0.033517	0.002417	0.001430	0.090428	0.000416	0.008679	0.004819	0.001357	0.013572
3-Sep-2027	10.994225	9.223000	14.451600	2.243240	32.267493	1.242950	0.015174	0.149202	0.034136	0.002549	0.001439	0.091634	0.000442	0.009005	0.005083	0.001423	0.014230
4-Sep-2027	11.024163	9.108320	14.246700	2.225740	31.909072	1.222470	0.014962	0.147076	0.033896	0.002514	0.001435	0.091205	0.000435	0.008910	0.005013	0.001406	0.014055
5-Sep-2027	11.215373	9.732400	15.387700	2.320540	33.857787	1.337010	0.016098	0.158444	0.034767	0.002704	0.001447	0.092933	0.000473	0.009375	0.005392	0.001500	0.015000
6-Sep-2027	11.249981	9.017050	14.083600	2.211920	31.624260	1.206230	0.014788	0.145331	0.033652	0.002490	0.001431	0.090974	0.000430	0.008832	0.004957	0.001391	0.013913
7-Sep-2027	11.012338	8.686490	13.483100	2.161820	30.592540	1.145980	0.014181	0.139251	0.033087	0.002390	0.001423	0.089974	0.000410	0.008576	0.004755	0.001341	0.013409

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Sep-2027	10.494100	9.223230	14.462900	2.243570	32.269427	1.244330	0.015156	0.149002	0.033831	0.002556	0.001434	0.091575	0.000443	0.008978	0.005081	0.001422	0.014220
9-Sep-2027	10.256423	9.658890	15.260200	2.309690	33.629552	1.324390	0.015948	0.156928	0.034424	0.002689	0.001442	0.092776	0.000469	0.009301	0.005346	0.001488	0.014879
10-Sep-2027	10.114371	9.428280	14.840600	2.274480	32.908724	1.282330	0.015527	0.152708	0.034066	0.002619	0.001436	0.092081	0.000455	0.009125	0.005206	0.001453	0.014529
11-Sep-2027	9.570586	9.045360	14.149100	2.216170	31.712452	1.213020	0.014825	0.145705	0.033398	0.002500	0.001426	0.090736	0.000432	0.008823	0.004972	0.001395	0.013949
12-Sep-2027	9.100392	9.746270	15.429200	2.322700	33.901315	1.341510	0.016102	0.158474	0.034391	0.002714	0.001440	0.092732	0.000475	0.009348	0.005398	0.001501	0.015010
13-Sep-2027	8.333770	8.834650	13.764800	2.184370	31.055357	1.174560	0.014433	0.141769	0.032991	0.002442	0.001421	0.090309	0.000420	0.008660	0.004844	0.001362	0.013623
14-Sep-2027	7.933755	8.916450	13.918000	2.196470	31.309439	1.190020	0.014581	0.143248	0.033058	0.002466	0.001421	0.090411	0.000425	0.008715	0.004894	0.001375	0.013747
15-Sep-2027	7.587090	8.950950	13.982000	2.201720	31.417205	1.196500	0.014642	0.143861	0.033075	0.002478	0.001421	0.090514	0.000427	0.008739	0.004915	0.001380	0.013798
16-Sep-2027	7.125610	9.044200	14.155900	2.215830	31.708155	1.213980	0.014808	0.145509	0.033139	0.002506	0.001422	0.090681	0.000433	0.008801	0.004971	0.001394	0.013938
17-Sep-2027	7.015862	9.798680	15.533900	2.330310	34.063521	1.352300	0.016185	0.159291	0.034238	0.002734	0.001437	0.092765	0.000479	0.009367	0.005429	0.001508	0.015081
18-Sep-2027	6.394805	9.067790	14.202600	2.219200	31.780937	1.218750	0.014850	0.145932	0.033116	0.002512	0.001421	0.090629	0.000434	0.008812	0.004985	0.001397	0.013973
19-Sep-2027	6.313985	9.088060	14.242900	2.222220	31.843988	1.222830	0.014884	0.146279	0.033089	0.002518	0.001420	0.090583	0.000436	0.008821	0.004997	0.001400	0.014003
20-Sep-2027	5.895762	9.196380	14.445700	2.238370	32.180969	1.243320	0.015080	0.148245	0.033221	0.002550	0.001422	0.090846	0.000443	0.008897	0.005062	0.001417	0.014167
21-Sep-2027	5.933766	9.677670	15.322000	2.311590	33.684270	1.331220	0.015958	0.157022	0.033902	0.002697	0.001431	0.092187	0.000472	0.009259	0.005355	0.001490	0.014896
22-Sep-2027	5.992608	9.234870	14.516400	2.244340	32.301663	1.250540	0.015146	0.148884	0.033158	0.002566	0.001420	0.090972	0.000445	0.008919	0.005086	0.001422	0.014220
23-Sep-2027	5.496553	9.325040	14.684300	2.257690	32.581792	1.267460	0.015310	0.150532	0.033252	0.002593	0.001421	0.091098	0.000451	0.008981	0.005140	0.001436	0.014358
24-Sep-2027	5.260172	9.597230	15.182300	2.299020	33.431648	1.317440	0.015805	0.155490	0.033631	0.002675	0.001426	0.091824	0.000467	0.009184	0.005306	0.001477	0.014770
25-Sep-2027	5.176753	9.568520	15.133400	2.294560	33.341593	1.312630	0.015749	0.154922	0.033512	0.002667	0.001424	0.091688	0.000466	0.009155	0.005288	0.001472	0.014724
26-Sep-2027	5.082272	9.534810	15.075000	2.289300	33.235758	1.306830	0.015684	0.154267	0.033393	0.002657	0.001422	0.091509	0.000464	0.009123	0.005267	0.001467	0.014671
27-Sep-2027	5.429100	9.668960	15.321000	2.309510	33.653955	1.331590	0.015929	0.156723	0.033579	0.002698	0.001424	0.091874	0.000472	0.009222	0.005349	0.001487	0.014874
28-Sep-2027	5.506566	9.607520	15.209900	2.300230	33.462325	1.320670	0.015814	0.155566	0.033408	0.002685	0.001422	0.091829	0.000468	0.009171	0.005312	0.001478	0.014777
29-Sep-2027	5.265726	9.612710	15.223100	2.300850	33.477837	1.322030	0.015821	0.155634	0.033356	0.002685	0.001421	0.091717	0.000469	0.009168	0.005314	0.001478	0.014783
30-Sep-2027	5.245254	9.955330	15.853000	2.352630	34.546589	1.385290	0.016444	0.161876	0.033804	0.002788	0.001426	0.092511	0.000490	0.009418	0.005522	0.001530	0.015303
1-Oct-2027	5.152816	9.996470	15.929700	2.358730	34.674436	1.393000	0.016519	0.162626	0.033850	0.002799	0.001427	0.092560	0.000493	0.009447	0.005547	0.001537	0.015366
2-Oct-2027	4.388966	9.443000	14.919700	2.274190	32.944285	1.291720	0.015511	0.152547	0.033050	0.002631	0.001415	0.090969	0.000459	0.009032	0.005211	0.001453	0.014528
3-Oct-2027	4.175522	9.344680	14.739500	2.259250	32.637257	1.273660	0.015333	0.150769	0.032921	0.002601	0.001413	0.090720	0.000453	0.008959	0.005152	0.001438	0.014379
4-Oct-2027	4.160135	9.237200	14.542400	2.242690	32.300686	1.253980	0.015138	0.148815	0.032763	0.002570	0.001411	0.090522	0.000446	0.008880	0.005087	0.001422	0.014215
5-Oct-2027	3.700431	9.202510	14.479500	2.237090	32.191004	1.247740	0.015076	0.148193	0.032711	0.002560	0.001410	0.090375	0.000444	0.008854	0.005066	0.001416	0.014163
6-Oct-2027	3.715083	9.178280	14.435600	2.233170	32.114359	1.243400	0.015033	0.147767	0.032685	0.002553	0.001409	0.090301	0.000443	0.008837	0.005051	0.001413	0.014126
7-Oct-2027	3.425220	9.177650	14.434500	2.233010	32.112127	1.243260	0.015032	0.147759	0.032738	0.002551	0.001409	0.090266	0.000443	0.008837	0.005051	0.001413	0.014126
8-Oct-2027	3.216487	9.154960	14.393600	2.229450	32.040810	1.239200	0.014993	0.147368	0.032661	0.002544	0.001409	0.090172	0.000441	0.008819	0.005037	0.001409	0.014092
9-Oct-2027	2.908035	9.132290	14.352500	2.225550	31.968143	1.235230	0.014952	0.146969	0.032619	0.002539	0.001408	0.090171	0.000440	0.008803	0.005024	0.001406	0.014057
10-Oct-2027	1.747344	9.110950	14.314200	2.221910	31.899868	1.231490	0.014915	0.146602	0.032590	0.002533	0.001407	0.090112	0.000439	0.008787	0.005011	0.001402	0.014025
11-Oct-2027	1.473656	9.085460	14.268800	2.217610	31.818512	1.227020	0.014871	0.146171	0.032562	0.002524	0.001406	0.089986	0.000437	0.008768	0.004996	0.001399	0.013987
12-Oct-2027	0.626968	9.064370	14.230800	2.214150	31.751602	1.223290	0.014834	0.145807	0.032535	0.002518	0.001405	0.089886	0.000436	0.008752	0.004983	0.001396	0.013956
13-Oct-2027	0.382236	9.045370	14.196800	2.210950	31.690981	1.219970	0.014801	0.145479	0.032503	0.002512	0.001404	0.089844	0.000435	0.008737	0.004972	0.001393	0.013927
14-Oct-2027	0.305828	9.058560	14.221200	2.212970	31.732235	1.222390	0.014825	0.145713	0.032530	0.002515	0.001405	0.089809	0.000436	0.008746	0.004980	0.001395	0.013947
15-Oct-2027	0.061047	9.025210	14.161300	2.207500	31.626434	1.216510	0.014766	0.145136	0.032475	0.002505	0.001404	0.089701	0.000434	0.008721	0.004960	0.001390	0.013897
16-Oct-2027	0.031571	9.013440	14.140100	2.205470	31.588685	1.214440	0.014746	0.144935	0.032455	0.002502	0.001403	0.089659	0.000433	0.008712	0.004953	0.001388	0.013879
17-Oct-2027	0.017039	9.034480	14.173100	2.210610	31.662389	1.217290	0.014780	0.145273	0.032530	0.002508	0.001406	0.089869	0.000434	0.008733	0.004965	0.001391	0.013912
18-Oct-2027	0.015356	9.107160	14.286600	2.228600	31.917953	1.226980	0.014899	0.146438	0.032796	0.002528	0.001418	0.090603	0.000437	0.008803	0.005005	0.001402	0.014024
19-Oct-2027	0.015385	9.172390	14.389000	2.244540	32.146474	1.235780	0.015006	0.147488	0.033031	0.002546	0.001428	0.091251	0.000441	0.008866	0.005040	0.001412	0.014124
20-Oct-2027	0.015854	9.211920	14.450900	2.254270	32.285248	1.241070	0.015070	0.148123	0.033175	0.002557	0.001434	0.091649	0.000442	0.008905	0.005062	0.001419	0.014185
21-Oct-2027	0.017694	9.199890	14.430800	2.251800	32.245038	1.239220	0.015050	0.147923	0.033143	0.002554	0.001433	0.091560	0.000442	0.008894	0.005055	0.001417	0.014167
22-Oct-2027	0.018830	9.227770	14.474000	2.258790	32.343439	1.242880	0.015095	0.148369	0.033249	0.002561	0.001438	0.091850	0.000443	0.008921	0.005070	0.001421	0.014210
23-Oct-2027	0.019587	9.255990	14.517700	2.265910	32.443224	1.246580	0.015141	0.148820	0.033357	0.002569	0.001442	0.092146	0.000444	0.008949	0.005086	0.001425	0.014254
24-Oct-2027	0.019657	9.286300	14.564700	2.273530	32.550288	1.250560	0.015191	0.149304	0.033471	0.002577	0.001447	0.092465	0.000446	0.008979	0.005102	0.001430	0.014300
25-Oct-2027	0.019525	9.318000	14.613600	2.281570	32.662551	1.254680	0.015242	0.149808	0.033591	0.002586	0.001453	0.092806	0.000447	0.009010	0.005120	0.001435	0.014349
26-Oct-2027	0.019557	9.355110	14.671100	2.290910	32.793677	1.259550	0.015302	0.150400	0.033730	0.002596	0.001459	0.093199	0.000449	0.009047	0.005140	0.001441	0.014406
27-Oct-2027	0.019868	9.389280	14.724200	2.299450	32.914167	1.264060	0.015358	0.150946	0.033857	0.002606	0.001464	0.093555	0.000451	0.009080	0.005158	0.001446	0.014459
28-Oct-2027	0.019884	9.427480	14.784100	2.308800	33.048056	1.269210	0.015420	0.151561	0.033994	0.002617	0.001470	0.093936	0.000453	0.009117	0.005179	0.001452	0.014518
29-Oct-2027	0.019642	9.455070	14.827600	2.315480	33.144456	1.272970	0.015466	0.152005	0.034091	0.002624	0.001475	0.094205	0.000454	0.009144	0.005195	0.001456	0.014560

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30-Oct-2027	0.019752	9.482700	14.870900	2.322260	33.241369	1.276680	0.015511	0.152449	0.034191	0.002632	0.001479	0.094480	0.000455	0.009170	0.005210	0.001460	0.014603
31-Oct-2027	0.020048	9.513550	14.919400	2.329750	33.349245	1.280860	0.015561	0.152946	0.034301	0.002641	0.001484	0.094784	0.000457	0.009200	0.005227	0.001465	0.014650
1-Nov-2027	0.019263	9.551160	14.978000	2.338990	33.481207	1.285890	0.015623	0.153549	0.034438	0.002651	0.001490	0.095175	0.000458	0.009237	0.005248	0.001471	0.014708
2-Nov-2027	0.018683	9.586830	15.033000	2.348030	33.607502	1.290530	0.015680	0.154116	0.034573	0.002661	0.001496	0.095570	0.000460	0.009272	0.005267	0.001476	0.014763
3-Nov-2027	0.018650	9.612910	15.073200	2.354620	33.699761	1.293930	0.015723	0.154530	0.034671	0.002669	0.001500	0.095857	0.000461	0.009298	0.005281	0.001480	0.014803
4-Nov-2027	0.019164	9.635450	15.108800	2.360040	33.778363	1.297010	0.015760	0.154895	0.034750	0.002675	0.001503	0.096072	0.000462	0.009320	0.005294	0.001484	0.014837
5-Nov-2027	0.019783	9.663650	15.153800	2.366720	33.876287	1.300930	0.015806	0.155353	0.034848	0.002683	0.001507	0.096325	0.000464	0.009347	0.005309	0.001488	0.014881
6-Nov-2027	0.019491	9.696580	15.206200	2.374540	33.990716	1.305500	0.015861	0.155887	0.034961	0.002692	0.001512	0.096625	0.000465	0.009378	0.005327	0.001493	0.014932
7-Nov-2027	0.018685	9.731030	15.260800	2.382790	34.110711	1.310240	0.015917	0.156444	0.035079	0.002701	0.001517	0.096950	0.000467	0.009410	0.005347	0.001498	0.014985
8-Nov-2027	0.017910	9.762650	15.310600	2.390490	34.221375	1.314530	0.015969	0.156952	0.035190	0.002710	0.001522	0.097261	0.000469	0.009441	0.005364	0.001503	0.015033
9-Nov-2027	0.017899	9.794870	15.360800	2.398480	34.334731	1.318810	0.016021	0.157467	0.035308	0.002719	0.001527	0.097597	0.000470	0.009472	0.005382	0.001508	0.015083
10-Nov-2027	0.018096	9.830750	15.416600	2.407390	34.461015	1.323580	0.016080	0.158041	0.035439	0.002729	0.001533	0.097971	0.000472	0.009507	0.005401	0.001514	0.015138
11-Nov-2027	0.018342	9.864300	15.469200	2.415610	34.578639	1.328090	0.016135	0.158580	0.035560	0.002739	0.001538	0.098306	0.000474	0.009540	0.005420	0.001519	0.015190
12-Nov-2027	0.018607	9.900220	15.525400	2.424440	34.704693	1.332910	0.016193	0.159157	0.035690	0.002749	0.001544	0.098669	0.000475	0.009574	0.005439	0.001524	0.015245
13-Nov-2027	0.018968	9.934070	15.578400	2.432760	34.823478	1.337450	0.016249	0.159701	0.035813	0.002758	0.001549	0.099009	0.000477	0.009607	0.005458	0.001530	0.015297
14-Nov-2027	0.019232	9.969910	15.634400	2.441600	34.949374	1.342240	0.016307	0.160276	0.035943	0.002768	0.001555	0.099373	0.000479	0.009642	0.005478	0.001535	0.015352
15-Nov-2027	0.019373	10.005500	15.690000	2.450410	35.074522	1.346990	0.016365	0.160847	0.036073	0.002778	0.001560	0.099740	0.000480	0.009677	0.005497	0.001541	0.015407
16-Nov-2027	0.019360	10.036700	15.738600	2.458130	35.184219	1.351150	0.016416	0.161346	0.036187	0.002787	0.001565	0.100065	0.000482	0.009707	0.005514	0.001545	0.015455
17-Nov-2027	0.019097	10.085100	15.814200	2.470030	35.354078	1.357620	0.016495	0.162121	0.036362	0.002800	0.001573	0.100556	0.000484	0.009754	0.005541	0.001553	0.015529
18-Nov-2027	0.018963	10.127500	15.880800	2.480430	35.502778	1.363340	0.016565	0.162804	0.036515	0.002812	0.001580	0.100980	0.000486	0.009795	0.005564	0.001559	0.015595
19-Nov-2027	0.018776	10.153800	15.922000	2.486840	35.594846	1.366880	0.016607	0.163225	0.036608	0.002820	0.001584	0.101242	0.000487	0.009821	0.005579	0.001564	0.015635
20-Nov-2027	0.018640	10.187700	15.975200	2.495160	35.713756	1.371450	0.016663	0.163771	0.036730	0.002829	0.001589	0.101583	0.000489	0.009853	0.005597	0.001569	0.015687
21-Nov-2027	0.018542	10.227100	16.037000	2.504780	35.851753	1.376760	0.016727	0.164404	0.036872	0.002840	0.001595	0.101973	0.000491	0.009891	0.005619	0.001575	0.015748
22-Nov-2027	0.018463	10.277800	16.116500	2.517220	36.029579	1.383580	0.016810	0.165219	0.037055	0.002854	0.001603	0.102481	0.000493	0.009941	0.005647	0.001583	0.015826
23-Nov-2027	0.018347	10.307700	16.163200	2.524570	36.134506	1.387590	0.016859	0.165699	0.037163	0.002862	0.001608	0.102785	0.000495	0.009970	0.005663	0.001587	0.015872
24-Nov-2027	0.018253	10.344400	16.220600	2.533580	36.263249	1.392510	0.016919	0.166287	0.037295	0.002873	0.001614	0.103156	0.000497	0.010005	0.005683	0.001593	0.015928
25-Nov-2027	0.018041	10.342300	16.216100	2.533410	36.257305	1.392050	0.016915	0.166244	0.037290	0.002873	0.001614	0.103190	0.000496	0.010004	0.005682	0.001592	0.015925
26-Nov-2027	0.017936	10.382400	16.279000	2.543230	36.397874	1.397450	0.016980	0.166889	0.037434	0.002884	0.001620	0.103591	0.000498	0.010043	0.005704	0.001599	0.015986
27-Nov-2027	0.017909	10.405800	16.316200	2.548770	36.479117	1.400690	0.017019	0.167268	0.037516	0.002890	0.001623	0.103801	0.000499	0.010065	0.005717	0.001602	0.016022
28-Nov-2027	0.017894	10.439800	16.369800	2.557100	36.598318	1.405290	0.017075	0.167817	0.037638	0.002900	0.001629	0.104137	0.000501	0.010098	0.005736	0.001607	0.016075
29-Nov-2027	0.017884	10.480100	16.432900	2.566950	36.739510	1.410710	0.017141	0.168464	0.037783	0.002911	0.001635	0.104538	0.000503	0.010137	0.005758	0.001614	0.016137
30-Nov-2027	0.017846	10.512100	16.483300	2.574720	36.851411	1.415050	0.017193	0.168979	0.037898	0.002920	0.001640	0.104848	0.000505	0.010168	0.005775	0.001619	0.016186
1-Dec-2027	0.017786	10.537200	16.522600	2.580870	36.939411	1.418430	0.017234	0.169383	0.037988	0.002927	0.001644	0.105100	0.000506	0.010192	0.005789	0.001622	0.016225
2-Dec-2027	0.017766	10.583800	16.595600	2.592340	37.103005	1.424680	0.017310	0.170131	0.038157	0.002940	0.001651	0.105571	0.000508	0.010237	0.005815	0.001630	0.016297
3-Dec-2027	0.017728	10.636500	16.678300	2.605220	37.287636	1.431790	0.017396	0.170978	0.038346	0.002954	0.001659	0.106095	0.000511	0.010288	0.005844	0.001638	0.016378
4-Dec-2027	0.017731	10.668500	16.728700	2.613000	37.399579	1.436130	0.017449	0.171494	0.038460	0.002963	0.001664	0.106406	0.000512	0.010319	0.005861	0.001643	0.016427
5-Dec-2027	0.017758	10.701900	16.781000	2.621190	37.516705	1.440620	0.017504	0.172031	0.038581	0.002972	0.001669	0.106739	0.000514	0.010351	0.005880	0.001648	0.016479
6-Dec-2027	0.017788	10.742100	16.844000	2.631020	37.657564	1.446020	0.017569	0.172677	0.038726	0.002984	0.001676	0.107139	0.000516	0.010390	0.005902	0.001654	0.016540
7-Dec-2027	0.017793	10.778900	16.901800	2.640040	37.786598	1.450980	0.017629	0.173269	0.038859	0.002994	0.001681	0.107506	0.000517	0.010426	0.005922	0.001660	0.016597
8-Dec-2027	0.017780	10.812000	16.953700	2.648120	37.902522	1.455450	0.017684	0.173801	0.038978	0.003003	0.001686	0.107833	0.000519	0.010457	0.005940	0.001665	0.016648
9-Dec-2027	0.017775	10.851900	17.016300	2.657920	38.042509	1.460820	0.017749	0.174443	0.039122	0.003014	0.001693	0.108233	0.000521	0.010496	0.005962	0.001671	0.016710
10-Dec-2027	0.017747	10.899600	17.091000	2.669620	38.209796	1.467230	0.017827	0.175209	0.039294	0.003027	0.001700	0.108712	0.000523	0.010542	0.005988	0.001678	0.016783
11-Dec-2027	0.017725	10.930900	17.140100	2.677270	38.319455	1.471450	0.017878	0.175712	0.039407	0.003036	0.001705	0.109024	0.000525	0.010573	0.006005	0.001683	0.016831
12-Dec-2027	0.017714	10.971100	17.203100	2.687120	38.460397	1.476850	0.017944	0.176358	0.039552	0.003047	0.001711	0.109425	0.000527	0.010611	0.006028	0.001689	0.016893
13-Dec-2027	0.017685	11.017400	17.275700	2.698470	38.622747	1.483080	0.018020	0.177102	0.039719	0.003060	0.001719	0.109888	0.000529	0.010656	0.006053	0.001696	0.016964
14-Dec-2027	0.017660	11.051600	17.329300	2.706840	38.742612	1.487690	0.018075	0.177652	0.039842	0.003070	0.001724	0.110229	0.000530	0.010689	0.006072	0.001702	0.017017
15-Dec-2027	0.017656	11.095700	17.398400	2.717640	38.897204	1.493610	0.018147	0.178360	0.040001	0.003082	0.001731	0.110670	0.000533	0.010732	0.006096	0.001708	0.017085
16-Dec-2027	0.017650	11.138900	17.466200	2.728230	39.048684	1.499430	0.018218	0.179055	0.040156	0.003094	0.001738	0.111101	0.000535	0.010774	0.006120	0.001715	0.017151
17-Dec-2027	0.017625	11.164900	17.507000	2.734580	39.139756	1.502940	0.018261	0.179473	0.040250	0.003101	0.001742	0.111359	0.000536	0.010799	0.006134	0.001719	0.017191
18-Dec-2027	0.017591	11.172700	17.519300	2.736470	39.167015	1.504000	0.018274	0.179599	0.040278	0.003103	0.001743	0.111432	0.000536	0.010806	0.006138	0.001720	0.017203
19-Dec-2027	0.017574	11.218600	17.591300	2.747720	39.327955	1.510180	0.018349	0.180337	0.040443	0.003116	0.001750	0.111891	0.000538	0.010851	0.006164	0.001727	0.017274
20-Dec-2027	0.017584	11.262500	17.660200	2.758480	39.481883	1.516100	0.018420	0.181043	0.040602	0.003128	0.001757	0.112329	0.000541	0.010893	0.006188	0.001734	0.017342

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21-Dec-2027	0.017595	11.293500	17.708700	2.766050	39.590463	1.520260	0.018471	0.181541	0.040713	0.003137	0.001762	0.112637	0.000542	0.010923	0.006205	0.001739	0.017389
22-Dec-2027	0.017600	11.339100	17.780200	2.777220	39.750325	1.526400	0.018546	0.182274	0.040877	0.003149	0.001769	0.113092	0.000544	0.010967	0.006230	0.001746	0.017460
23-Dec-2027	0.017586	11.386000	17.853800	2.788730	39.914832	1.532720	0.018622	0.183028	0.041047	0.003162	0.001776	0.113562	0.000546	0.011013	0.006256	0.001753	0.017532
24-Dec-2027	0.017574	11.437000	17.933700	2.801240	40.093695	1.539570	0.018706	0.183847	0.041231	0.003177	0.001784	0.114073	0.000549	0.011062	0.006284	0.001761	0.017610
25-Dec-2027	0.017570	11.470700	17.986500	2.809500	40.211859	1.544110	0.018761	0.184389	0.041352	0.003186	0.001789	0.114411	0.000551	0.011095	0.006302	0.001766	0.017662
26-Dec-2027	0.017527	11.512400	18.051800	2.819710	40.358029	1.549710	0.018829	0.185058	0.041502	0.003198	0.001796	0.114828	0.000553	0.011135	0.006325	0.001773	0.017726
27-Dec-2027	0.017493	11.560400	18.127100	2.831480	40.526353	1.556180	0.018908	0.185830	0.041676	0.003211	0.001803	0.115309	0.000555	0.011181	0.006351	0.001780	0.017800
28-Dec-2027	0.017471	11.603600	18.194800	2.842060	40.677792	1.561990	0.018978	0.186524	0.041831	0.003223	0.001810	0.115740	0.000557	0.011223	0.006375	0.001787	0.017867
29-Dec-2027	0.017435	11.647100	18.263000	2.852710	40.830268	1.567840	0.019049	0.187223	0.041988	0.003235	0.001817	0.116174	0.000559	0.011265	0.006399	0.001793	0.017934
30-Dec-2027	0.017407	11.688700	18.328300	2.862920	40.976188	1.573440	0.019117	0.187893	0.042138	0.003247	0.001823	0.116591	0.000561	0.011306	0.006422	0.001800	0.017998
31-Dec-2027	0.017396	11.748700	18.421800	2.877760	41.187120	1.581440	0.019215	0.188853	0.042356	0.003263	0.001833	0.117210	0.000564	0.011364	0.006455	0.001809	0.018090
1-Jan-2028	0.017366	11.789300	18.485500	2.887700	41.329431	1.586910	0.019282	0.189506	0.042502	0.003275	0.001839	0.117615	0.000566	0.011403	0.006477	0.001815	0.018153
2-Jan-2028	0.017343	11.838800	18.563200	2.899790	41.502819	1.593590	0.019363	0.190302	0.042680	0.003288	0.001847	0.118105	0.000568	0.011451	0.006504	0.001823	0.018229
3-Jan-2028	0.017337	11.908900	18.672900	2.917040	41.748894	1.602980	0.019477	0.191427	0.042934	0.003308	0.001858	0.118815	0.000572	0.011519	0.006543	0.001834	0.018337
4-Jan-2028	0.017311	11.947300	18.733100	2.926430	41.883447	1.608160	0.019540	0.192044	0.043072	0.003319	0.001864	0.119196	0.000573	0.011556	0.006564	0.001840	0.018396
5-Jan-2028	0.017284	11.996800	18.810800	2.938500	42.056753	1.614840	0.019621	0.192840	0.043250	0.003332	0.001872	0.119684	0.000576	0.011604	0.006591	0.001847	0.018472
6-Jan-2028	0.017272	12.071800	18.928200	2.956940	42.319964	1.624900	0.019743	0.194045	0.043521	0.003353	0.001883	0.120441	0.000579	0.011677	0.006632	0.001859	0.018587
7-Jan-2028	0.017274	12.119300	19.002700	2.968590	42.486546	1.631290	0.019821	0.194808	0.043692	0.003367	0.001891	0.120917	0.000582	0.011723	0.006658	0.001866	0.018661
8-Jan-2028	0.017266	12.157500	19.062600	2.977910	42.620311	1.636450	0.019884	0.195422	0.043829	0.003377	0.001897	0.121294	0.000583	0.011759	0.006679	0.001872	0.018719
9-Jan-2028	0.017268	12.218300	19.157800	2.992830	42.833569	1.644610	0.019983	0.196398	0.044049	0.003394	0.001906	0.121905	0.000586	0.011818	0.006713	0.001881	0.018813
10-Jan-2028	0.017277	12.262800	19.227600	3.003780	42.989778	1.650590	0.020056	0.197114	0.044210	0.003406	0.001913	0.122354	0.000589	0.011862	0.006737	0.001888	0.018881
11-Jan-2028	0.017256	12.297200	19.281600	3.012150	43.110142	1.655230	0.020112	0.197667	0.044333	0.003416	0.001918	0.122692	0.000590	0.011895	0.006756	0.001893	0.018934
12-Jan-2028	0.017245	12.353900	19.370400	3.026050	43.308962	1.662860	0.020205	0.198578	0.044538	0.003432	0.001927	0.123259	0.000593	0.011950	0.006787	0.001902	0.019022
13-Jan-2028	0.017246	12.415100	19.466200	3.041150	43.523960	1.671060	0.020305	0.199561	0.044760	0.003449	0.001937	0.123883	0.000596	0.012009	0.006821	0.001912	0.019116
14-Jan-2028	0.017217	12.443700	19.511000	3.048110	43.624036	1.674910	0.020351	0.200020	0.044862	0.003457	0.001941	0.124164	0.000597	0.012037	0.006836	0.001916	0.019160
15-Jan-2028	0.017201	12.496300	19.593700	3.060990	43.808418	1.682010	0.020438	0.200867	0.045052	0.003471	0.001950	0.124688	0.000600	0.012087	0.006865	0.001924	0.019241
16-Jan-2028	0.017217	12.556600	19.687800	3.075850	44.020181	1.690070	0.020536	0.201832	0.045270	0.003488	0.001959	0.125303	0.000603	0.012146	0.006898	0.001933	0.019334
17-Jan-2028	0.017203	12.576200	19.718500	3.080650	44.088888	1.692710	0.020568	0.202147	0.045341	0.003494	0.001962	0.125499	0.000604	0.012165	0.006909	0.001936	0.019364
18-Jan-2028	0.017175	12.607300	19.767500	3.088250	44.197842	1.696920	0.020619	0.202649	0.045453	0.003502	0.001967	0.125805	0.000605	0.012195	0.006926	0.001941	0.019412
19-Jan-2028	0.017170	12.675500	19.874100	3.105020	44.437196	1.706050	0.020730	0.203743	0.045699	0.003521	0.001978	0.126496	0.000608	0.012261	0.006964	0.001952	0.019517
20-Jan-2028	0.017172	12.724800	19.951300	3.117120	44.610126	1.712670	0.020811	0.204534	0.045877	0.003535	0.001985	0.126991	0.000611	0.012309	0.006991	0.001959	0.019593
21-Jan-2028	0.017151	12.798900	20.068500	3.135000	44.868783	1.722800	0.020933	0.205733	0.046141	0.003555	0.001997	0.127693	0.000614	0.012380	0.007032	0.001971	0.019707
22-Jan-2028	0.017135	12.897100	20.222400	3.159050	45.213027	1.736010	0.021093	0.207311	0.046495	0.003583	0.002012	0.128673	0.000619	0.012475	0.007086	0.001986	0.019858
23-Jan-2028	0.017146	12.994100	20.374300	3.182850	45.553244	1.749040	0.021252	0.208869	0.046845	0.003610	0.002027	0.129647	0.000624	0.012569	0.007139	0.002001	0.020007
24-Jan-2028	0.017138	13.080900	20.510300	3.204180	45.857821	1.760700	0.021394	0.210263	0.047159	0.003634	0.002041	0.130521	0.000628	0.012653	0.007187	0.002014	0.020141
25-Jan-2028	0.017109	13.169200	20.648900	3.225750	46.167131	1.772620	0.021538	0.211684	0.047476	0.003658	0.002054	0.131395	0.000632	0.012738	0.007235	0.002028	0.020277
26-Jan-2028	0.017083	13.242200	20.763400	3.243600	46.422918	1.782460	0.021658	0.212857	0.047739	0.003679	0.002066	0.132120	0.000636	0.012809	0.007275	0.002039	0.020389
27-Jan-2028	0.017044	13.305000	20.861900	3.259000	46.643147	1.790910	0.021760	0.213867	0.047965	0.003696	0.002076	0.132748	0.000639	0.012869	0.007310	0.002049	0.020486
28-Jan-2028	0.017012	13.355500	20.941000	3.271390	46.820268	1.797700	0.021843	0.214678	0.048148	0.003710	0.002084	0.133255	0.000641	0.012918	0.007337	0.002056	0.020564
29-Jan-2028	0.016998	13.403000	21.015500	3.283010	46.986726	1.804090	0.021921	0.215442	0.048319	0.003723	0.002091	0.133728	0.000643	0.012964	0.007364	0.002064	0.020637
30-Jan-2028	0.016995	13.467300	21.116200	3.298780	47.212224	1.812730	0.022026	0.216474	0.048550	0.003741	0.002101	0.134372	0.000646	0.013027	0.007399	0.002074	0.020736
31-Jan-2028	0.016989	13.530000	21.214500	3.314140	47.432039	1.821160	0.022128	0.217482	0.048777	0.003759	0.002111	0.134999	0.000649	0.013087	0.007433	0.002083	0.020832
1-Feb-2028	0.016979	13.585200	21.301100	3.327650	47.625507	1.828600	0.022218	0.218369	0.048975	0.003774	0.002119	0.135549	0.000652	0.013141	0.007464	0.002092	0.020917
2-Feb-2028	0.016967	13.639000	21.385400	3.340830	47.814121	1.835850	0.022306	0.219234	0.049169	0.003789	0.002128	0.136085	0.000655	0.013193	0.007493	0.002100	0.021000
3-Feb-2028	0.016958	13.694400	21.472400	3.354400	48.008336	1.843310	0.022397	0.220125	0.049369	0.003804	0.002136	0.136638	0.000657	0.013246	0.007524	0.002109	0.021086
4-Feb-2028	0.016953	13.749000	21.558000	3.367780	48.199771	1.850660	0.022486	0.221003	0.049566	0.003819	0.002145	0.137183	0.000660	0.013299	0.007554	0.002117	0.021170
5-Feb-2028	0.016949	13.801500	21.640300	3.380630	48.383780	1.857720	0.022572	0.221847	0.049755	0.003834	0.002153	0.137707	0.000662	0.013350	0.007582	0.002125	0.021251
6-Feb-2028	0.016945	13.850200	21.716700	3.392570	48.554553	1.864280	0.022652	0.222630	0.049931	0.003848	0.002161	0.138193	0.000665	0.013397	0.007609	0.002133	0.021326
7-Feb-2028	0.016941	13.735300	21.536400	3.364410	48.151684	1.848810	0.022464	0.220782	0.049516	0.003816	0.002143	0.137047	0.000659	0.013286	0.007546	0.002115	0.021149
8-Feb-2028	0.016940	13.774400	21.597800	3.374010	48.288850	1.854080	0.022528	0.221411	0.049657	0.003827	0.002149	0.137437	0.000661	0.013324	0.007568	0.002121	0.021209
9-Feb-2028	0.016939	13.820400	21.670000	3.385270	48.450081	1.860270	0.022603	0.222151	0.049823	0.003839	0.002156	0.137896	0.000663	0.013368	0.007593	0.002128	0.021280
10-Feb-2028	0.016942	13.868800	21.745800	3.397120	48.619734	1.866780	0.022682	0.222928	0.049997	0.003853	0.002164	0.138379	0.000666	0.013415	0.007619	0.002135	0.021354

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Feb-2028	0.016941	13.915100	21.818300	3.408440	48.781961	1.873010	0.022758	0.223672	0.050164	0.003866	0.002171	0.138840	0.000668	0.013460	0.007645	0.002143	0.021425
12-Feb-2028	0.016938	13.968000	21.901300	3.421400	48.967421	1.880130	0.022845	0.224522	0.050355	0.003880	0.002179	0.139367	0.000670	0.013511	0.007674	0.002151	0.021507
13-Feb-2028	0.016933	14.000200	21.951900	3.429310	49.080398	1.884480	0.022897	0.225041	0.050471	0.003889	0.002184	0.139691	0.000672	0.013542	0.007692	0.002156	0.021556
14-Feb-2028	0.016929	14.062300	22.049100	3.444500	49.298014	1.892830	0.022999	0.226038	0.050694	0.003907	0.002194	0.140310	0.000675	0.013602	0.007726	0.002165	0.021652
15-Feb-2028	0.016925	14.124800	22.147200	3.459820	49.517164	1.901250	0.023101	0.227043	0.050920	0.003924	0.002204	0.140934	0.000678	0.013662	0.007760	0.002175	0.021748
16-Feb-2028	0.016923	14.187000	22.244700	3.475040	49.735154	1.909620	0.023203	0.228043	0.051144	0.003941	0.002213	0.141554	0.000681	0.013723	0.007794	0.002184	0.021844
17-Feb-2028	0.016921	14.249600	22.342800	3.490370	49.954595	1.918040	0.023305	0.229049	0.051369	0.003959	0.002223	0.142178	0.000684	0.013783	0.007829	0.002194	0.021940
18-Feb-2028	0.016919	14.312600	22.441700	3.505820	50.175529	1.926530	0.023408	0.230062	0.051597	0.003976	0.002233	0.142807	0.000687	0.013844	0.007863	0.002204	0.022037
19-Feb-2028	0.016917	14.393900	22.569100	3.525710	50.460442	1.937470	0.023541	0.231368	0.051890	0.003999	0.002246	0.143617	0.000691	0.013923	0.007908	0.002216	0.022163
20-Feb-2028	0.016914	14.467200	22.684100	3.543660	50.717390	1.947340	0.023661	0.232547	0.052154	0.004019	0.002257	0.144348	0.000694	0.013994	0.007948	0.002228	0.022275
21-Feb-2028	0.016909	14.531500	22.785100	3.559420	50.942847	1.956010	0.023766	0.233582	0.052386	0.004037	0.002267	0.144989	0.000697	0.014056	0.007984	0.002237	0.022375
22-Feb-2028	0.016905	14.607700	22.904500	3.578080	51.209960	1.966270	0.023891	0.234806	0.052660	0.004058	0.002279	0.145748	0.000701	0.014129	0.008025	0.002249	0.022492
23-Feb-2028	0.016902	14.731900	23.099300	3.608490	51.645316	1.982980	0.024094	0.236803	0.053108	0.004093	0.002298	0.146987	0.000707	0.014250	0.008094	0.002268	0.022683
24-Feb-2028	0.016900	14.835800	23.262100	3.633920	52.009475	1.996960	0.024264	0.238472	0.053482	0.004121	0.002314	0.148022	0.000712	0.014350	0.008151	0.002284	0.022843
25-Feb-2028	0.016897	14.935200	23.418100	3.658280	52.357991	2.010360	0.024427	0.240071	0.053841	0.004149	0.002330	0.149014	0.000717	0.014446	0.008205	0.002300	0.022996
26-Feb-2028	0.016895	14.827200	23.248700	3.631820	51.979353	1.995810	0.024250	0.238335	0.053451	0.004119	0.002313	0.147936	0.000712	0.014342	0.008146	0.002283	0.022830
27-Feb-2028	0.016894	14.908600	23.376400	3.651760	52.264722	2.006770	0.024383	0.239643	0.053745	0.004142	0.002326	0.148748	0.000716	0.014420	0.008191	0.002296	0.022955
28-Feb-2028	0.016891	14.991500	23.506400	3.672070	52.555360	2.017930	0.024519	0.240976	0.054043	0.004165	0.002339	0.149575	0.000720	0.014501	0.008236	0.002308	0.023083
29-Feb-2028	0.016889	15.081800	23.647900	3.694170	52.871847	2.030080	0.024666	0.242427	0.054369	0.004190	0.002353	0.150476	0.000724	0.014588	0.008286	0.002322	0.023222
1-Mar-2028	0.016887	15.177500	23.798000	3.717620	53.207377	2.042970	0.024823	0.243966	0.054714	0.004216	0.002368	0.151431	0.000728	0.014681	0.008338	0.002337	0.023369
2-Mar-2028	0.016886	15.273700	23.948900	3.741190	53.544649	2.055920	0.024980	0.245512	0.055061	0.004243	0.002383	0.152391	0.000733	0.014774	0.008391	0.002352	0.023517
3-Mar-2028	0.016884	15.369600	24.099200	3.764660	53.880761	2.068820	0.025137	0.247053	0.055406	0.004270	0.002398	0.153347	0.000738	0.014866	0.008444	0.002366	0.023665
4-Mar-2028	0.016882	15.464600	24.248200	3.787940	54.213843	2.081620	0.025292	0.248581	0.055749	0.004296	0.002412	0.154295	0.000742	0.014958	0.008496	0.002381	0.023811
5-Mar-2028	0.016881	15.557000	24.393000	3.810560	54.537715	2.094050	0.025443	0.250065	0.056082	0.004322	0.002427	0.155216	0.000747	0.015048	0.008547	0.002395	0.023953
6-Mar-2028	0.016879	15.649900	24.538600	3.833310	54.863371	2.106550	0.025595	0.251558	0.056416	0.004347	0.002441	0.156143	0.000751	0.015137	0.008598	0.002410	0.024096
7-Mar-2028	0.016878	15.743400	24.685300	3.856220	55.191184	2.119150	0.025748	0.253062	0.056754	0.004373	0.002456	0.157076	0.000756	0.015228	0.008649	0.002424	0.024240
8-Mar-2028	0.016876	15.839400	24.835900	3.879740	55.527751	2.132070	0.025905	0.254605	0.057100	0.004400	0.002471	0.158034	0.000760	0.015321	0.008702	0.002439	0.024388
9-Mar-2028	0.016875	15.937100	24.989000	3.903660	55.870211	2.145220	0.026065	0.256175	0.057452	0.004427	0.002486	0.159008	0.000765	0.015415	0.008756	0.002454	0.024539
10-Mar-2028	0.016874	16.035600	25.143400	3.927780	56.215491	2.158470	0.026226	0.257758	0.057807	0.004455	0.002502	0.159991	0.000770	0.015510	0.008810	0.002469	0.024690
11-Mar-2028	0.016872	16.136100	25.301000	3.952400	56.567825	2.172000	0.026391	0.259374	0.058169	0.004483	0.002517	0.160993	0.000774	0.015608	0.008865	0.002485	0.024845
12-Mar-2028	0.016871	16.275200	25.519200	3.986470	57.055458	2.190730	0.026618	0.261610	0.058671	0.004521	0.002539	0.162381	0.000781	0.015742	0.008942	0.002506	0.025059
13-Mar-2028	0.016870	16.423700	25.752000	4.022850	57.576075	2.210710	0.026861	0.263997	0.059206	0.004562	0.002562	0.163863	0.000788	0.015886	0.009023	0.002529	0.025288
14-Mar-2028	0.016870	16.597100	26.023800	4.065320	58.183946	2.234050	0.027144	0.266784	0.059831	0.004611	0.002589	0.165593	0.000797	0.016054	0.009118	0.002555	0.025555
15-Mar-2028	0.016869	16.776600	26.305300	4.109290	58.813226	2.258220	0.027438	0.269669	0.060478	0.004660	0.002617	0.167384	0.000805	0.016227	0.009217	0.002583	0.025831
16-Mar-2028	0.016869	16.964900	26.600600	4.155420	59.473375	2.283570	0.027746	0.272697	0.061157	0.004713	0.002647	0.169263	0.000814	0.016409	0.009320	0.002612	0.026121
17-Mar-2028	0.016869	17.161100	26.908300	4.203480	60.161197	2.309980	0.028067	0.275851	0.061865	0.004767	0.002677	0.171221	0.000824	0.016599	0.009428	0.002642	0.026423
18-Mar-2028	0.016869	17.362500	27.224100	4.252810	60.867234	2.337090	0.028396	0.279088	0.062591	0.004823	0.002709	0.173230	0.000833	0.016794	0.009539	0.002673	0.026733
19-Mar-2028	0.016869	17.565000	27.541500	4.302400	61.577088	2.364340	0.028727	0.282342	0.063320	0.004879	0.002740	0.175250	0.000843	0.016990	0.009650	0.002705	0.027045
20-Mar-2028	0.016869	17.767200	27.858500	4.351930	62.285946	2.391560	0.029058	0.285592	0.064049	0.004936	0.002772	0.177267	0.000853	0.017185	0.009761	0.002736	0.027357
21-Mar-2028	0.016868	17.969600	28.176000	4.401520	62.995551	2.418810	0.029389	0.288847	0.064779	0.004992	0.002803	0.179287	0.000862	0.017381	0.009872	0.002767	0.027668
22-Mar-2028	0.016868	18.173400	28.495500	4.451430	63.709969	2.446230	0.029723	0.292122	0.065514	0.005049	0.002835	0.181320	0.000872	0.017578	0.009984	0.002798	0.027982
23-Mar-2028	0.016868	18.379300	28.818400	4.501860	64.431772	2.473950	0.030059	0.295432	0.066256	0.005106	0.002867	0.183375	0.000882	0.017777	0.010098	0.002830	0.028299
24-Mar-2028	0.016868	18.587400	29.144700	4.552840	65.161333	2.501970	0.030400	0.298777	0.067006	0.005164	0.002900	0.185451	0.000892	0.017979	0.010212	0.002862	0.028619
25-Mar-2028	0.016868	18.797500	29.474100	4.604300	65.897865	2.530250	0.030743	0.302154	0.067764	0.005222	0.002932	0.187547	0.000902	0.018182	0.010327	0.002894	0.028943
26-Mar-2028	0.016868	19.009300	29.806200	4.656180	66.640371	2.558760	0.031090	0.305559	0.068527	0.005281	0.002965	0.189661	0.000912	0.018387	0.010444	0.002927	0.029269
27-Mar-2028	0.016868	19.222600	30.140600	4.708430	67.388147	2.587470	0.031439	0.308987	0.069296	0.005340	0.002999	0.191789	0.000923	0.018593	0.010561	0.002960	0.029597
28-Mar-2028	0.016868	19.437200	30.477200	4.761000	68.140486	2.616360	0.031790	0.312437	0.070070	0.005400	0.003032	0.193930	0.000933	0.018801	0.010679	0.002993	0.029928
29-Mar-2028	0.016868	19.653200	30.815800	4.813900	68.897681	2.645430	0.032143	0.315909	0.070848	0.005460	0.003066	0.196085	0.000943	0.019010	0.010797	0.003026	0.030260
30-Mar-2028	0.016868	19.870600	31.156700	4.867150	69.659812	2.674690	0.032498	0.319403	0.071632	0.005520	0.003100	0.198254	0.000954	0.019220	0.010917	0.003060	0.030595
31-Mar-2028	0.016868	20.088100	31.497700	4.920430	70.422316	2.703970	0.032854	0.322900	0.072416	0.005580	0.003134	0.200424	0.000964	0.019430	0.011036	0.003093	0.030930
1-Apr-2028	0.016868	20.254600	31.758800	4.961220	71.006040	2.726380	0.033126	0.325576	0.073016	0.005627	0.003160	0.202086	0.000972	0.019591	0.011128	0.003119	0.031187
2-Apr-2028	0.016868	20.122000	31.550800	4.928720	70.541103	2.708530	0.032909	0.323444	0.072538	0.005590	0.003139	0.200762	0.000966	0.019463	0.011055	0.003098	0.030982

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
3-Apr-2028	0.016868	19.964000	31.303100	4.890020	69.987210	2.687260	0.032651	0.320904	0.071969	0.005546	0.003114	0.199186	0.000958	0.019310	0.010968	0.003074	0.030739
4-Apr-2028	0.016868	19.823900	31.083400	4.855700	69.496051	2.668400	0.032422	0.318652	0.071464	0.005507	0.003093	0.197788	0.000951	0.019175	0.010891	0.003052	0.030523
5-Apr-2028	0.016868	19.697800	30.885700	4.824820	69.054015	2.651430	0.032216	0.316625	0.071009	0.005472	0.003073	0.196530	0.000945	0.019053	0.010822	0.003033	0.030329
6-Apr-2028	0.016868	19.584000	30.707300	4.796940	68.655047	2.636110	0.032030	0.314796	0.070599	0.005440	0.003055	0.195394	0.000940	0.018943	0.010759	0.003015	0.030154
7-Apr-2028	0.016868	19.480900	30.545700	4.771710	68.293709	2.622240	0.031861	0.313140	0.070227	0.005412	0.003039	0.194366	0.000935	0.018843	0.010703	0.003000	0.029995
8-Apr-2028	0.016868	19.387200	30.398800	4.748750	67.965191	2.609620	0.031708	0.311633	0.069889	0.005386	0.003024	0.193431	0.000930	0.018752	0.010651	0.002985	0.029851
9-Apr-2028	0.016868	19.301300	30.264100	4.727710	67.664056	2.598060	0.031567	0.310253	0.069580	0.005362	0.003011	0.192574	0.000926	0.018669	0.010604	0.002972	0.029719
10-Apr-2028	0.016868	19.222000	30.139700	4.708290	67.386072	2.587390	0.031438	0.308978	0.069294	0.005340	0.002999	0.191783	0.000923	0.018593	0.010561	0.002960	0.029597
11-Apr-2028	0.016868	19.148400	30.024300	4.690250	67.128004	2.577470	0.031317	0.307794	0.069028	0.005319	0.002987	0.191048	0.000919	0.018521	0.010520	0.002948	0.029483
12-Apr-2028	0.016868	19.080900	29.918500	4.673730	66.891427	2.568400	0.031207	0.306710	0.068785	0.005301	0.002977	0.190375	0.000916	0.018456	0.010483	0.002938	0.029379
13-Apr-2028	0.016868	19.034500	29.845700	4.662330	66.728621	2.562150	0.031131	0.305963	0.068618	0.005288	0.002969	0.189911	0.000914	0.018411	0.010458	0.002931	0.029308
14-Apr-2028	0.016868	19.002800	29.796000	4.654580	66.617552	2.557890	0.031079	0.305454	0.068503	0.005279	0.002964	0.189595	0.000912	0.018381	0.010440	0.002926	0.029259
15-Apr-2028	0.016868	18.971200	29.746500	4.646830	66.506732	2.553630	0.031027	0.304946	0.068389	0.005270	0.002959	0.189279	0.000911	0.018350	0.010423	0.002921	0.029210
16-Apr-2028	0.016868	18.940400	29.698200	4.639290	66.398775	2.549480	0.030977	0.304451	0.068278	0.005262	0.002955	0.188972	0.000909	0.018320	0.010406	0.002916	0.029163
17-Apr-2028	0.016868	18.911100	29.652200	4.632110	66.296046	2.545530	0.030929	0.303980	0.068173	0.005253	0.002950	0.188679	0.000908	0.018292	0.010390	0.002912	0.029118
18-Apr-2028	0.016868	18.883300	29.608700	4.625320	66.198668	2.541800	0.030884	0.303534	0.068073	0.005246	0.002946	0.188403	0.000906	0.018265	0.010374	0.002908	0.029075
19-Apr-2028	0.016868	18.862000	29.575200	4.620090	66.123945	2.538930	0.030849	0.303191	0.067996	0.005240	0.002942	0.188190	0.000905	0.018244	0.010363	0.002904	0.029042
20-Apr-2028	0.016868	18.858500	29.569800	4.619230	66.111664	2.538460	0.030843	0.303135	0.067983	0.005239	0.002942	0.188155	0.000905	0.018241	0.010361	0.002904	0.029037
21-Apr-2028	0.016868	18.855500	29.565000	4.618490	66.101125	2.538050	0.030838	0.303086	0.067972	0.005238	0.002941	0.188124	0.000905	0.018238	0.010359	0.002903	0.029032
22-Apr-2028	0.016868	18.852800	29.560800	4.617840	66.091707	2.537690	0.030834	0.303043	0.067963	0.005237	0.002941	0.188098	0.000905	0.018235	0.010358	0.002903	0.029028
23-Apr-2028	0.016868	18.850500	29.557200	4.617260	66.083575	2.537380	0.030830	0.303006	0.067954	0.005237	0.002941	0.188075	0.000905	0.018233	0.010356	0.002902	0.029025
24-Apr-2028	0.016868	18.848400	29.554000	4.616770	66.076314	2.537110	0.030827	0.302973	0.067947	0.005236	0.002940	0.188054	0.000905	0.018231	0.010355	0.002902	0.029021
25-Apr-2028	0.016868	18.846700	29.551300	4.616340	66.070298	2.536880	0.030824	0.302945	0.067941	0.005236	0.002940	0.188037	0.000905	0.018230	0.010354	0.002902	0.029019
26-Apr-2028	0.016868	18.845200	29.549000	4.615980	66.065070	2.536680	0.030821	0.302922	0.067935	0.005235	0.002940	0.188022	0.000904	0.018228	0.010354	0.002902	0.029016
27-Apr-2028	0.016866	18.523000	29.043700	4.537080	64.935626	2.493300	0.030294	0.297742	0.066774	0.005146	0.002890	0.184809	0.000889	0.017917	0.010177	0.002852	0.028520
28-Apr-2028	0.016866	18.502400	29.011300	4.532010	64.863310	2.490520	0.030261	0.297410	0.066700	0.005140	0.002886	0.184603	0.000888	0.017897	0.010165	0.002849	0.028489
29-Apr-2028	0.016889	18.479000	28.974700	4.526290	64.781325	2.487370	0.030222	0.297034	0.066615	0.005133	0.002883	0.184370	0.000887	0.017874	0.010152	0.002845	0.028453
30-Apr-2028	0.017129	18.419400	28.881200	4.511680	64.572340	2.479350	0.030125	0.296076	0.066400	0.005117	0.002873	0.183775	0.000884	0.017816	0.010120	0.002836	0.028361
1-May-2028	0.018795	18.691500	29.307900	4.578320	65.526197	2.515980	0.030570	0.300450	0.067381	0.005192	0.002916	0.186488	0.000897	0.018079	0.010269	0.002878	0.028780
2-May-2028	0.024649	18.214800	28.560500	4.461570	63.855101	2.451820	0.029790	0.292788	0.065663	0.005060	0.002841	0.181733	0.000874	0.017618	0.010007	0.002805	0.028046
3-May-2028	0.031206	18.328800	28.739200	4.489500	64.254775	2.467160	0.029977	0.294620	0.066074	0.005092	0.002859	0.182871	0.000880	0.017729	0.010070	0.002822	0.028221
4-May-2028	0.036872	18.132300	28.431100	4.441370	63.565915	2.440710	0.029655	0.291462	0.065366	0.005037	0.002829	0.180911	0.000870	0.017539	0.009962	0.002792	0.027919
5-May-2028	0.042430	17.873400	28.025100	4.377950	62.658278	2.405860	0.029232	0.287300	0.064432	0.004965	0.002788	0.178327	0.000858	0.017288	0.009820	0.002752	0.027520
6-May-2028	0.047328	17.599700	27.596000	4.310910	61.698778	2.369020	0.028784	0.282901	0.063445	0.004889	0.002746	0.175596	0.000845	0.017023	0.009669	0.002710	0.027099
7-May-2028	0.051924	17.308900	27.139900	4.239660	60.679243	2.329870	0.028309	0.278225	0.062397	0.004808	0.002700	0.172694	0.000831	0.016742	0.009509	0.002665	0.026651
8-May-2028	0.056000	17.024100	26.693500	4.169920	59.680908	2.291540	0.027843	0.273648	0.061370	0.004729	0.002656	0.169853	0.000817	0.016467	0.009353	0.002621	0.026212
9-May-2028	0.060274	16.901600	26.501300	4.139900	59.251403	2.275050	0.027643	0.271679	0.060929	0.004695	0.002637	0.168630	0.000811	0.016348	0.009286	0.002602	0.026024
10-May-2028	0.064162	16.826700	26.383900	4.121560	58.988854	2.264970	0.027520	0.270475	0.060659	0.004674	0.002625	0.167883	0.000808	0.016276	0.009245	0.002591	0.025908
11-May-2028	0.068758	16.702900	26.189900	4.091240	58.554868	2.248310	0.027318	0.268486	0.060213	0.004640	0.002606	0.166648	0.000802	0.016156	0.009177	0.002572	0.025718
12-May-2028	0.074516	16.523600	25.908600	4.047310	57.926252	2.224160	0.027024	0.265603	0.059566	0.004590	0.002578	0.164858	0.000793	0.015982	0.009078	0.002544	0.025442
13-May-2028	0.079333	16.338200	25.617900	4.001890	57.276268	2.199210	0.026721	0.262622	0.058898	0.004539	0.002549	0.163009	0.000784	0.015803	0.008976	0.002516	0.025156
14-May-2028	0.091490	15.972000	25.043800	3.912200	55.992524	2.149920	0.026122	0.256737	0.057578	0.004437	0.002492	0.159355	0.000767	0.015449	0.008775	0.002459	0.024592
15-May-2028	0.103732	15.638500	24.520900	3.830520	54.823416	2.105030	0.025577	0.251376	0.056375	0.004344	0.002440	0.156028	0.000751	0.015126	0.008592	0.002408	0.024079
16-May-2028	0.121546	15.470800	24.258000	3.789450	54.235543	2.082470	0.025303	0.248681	0.055771	0.004298	0.002413	0.154355	0.000743	0.014964	0.008500	0.002382	0.023821
17-May-2028	0.124295	15.331100	24.038900	3.755220	53.745753	2.063650	0.025074	0.246435	0.055267	0.004259	0.002392	0.152960	0.000736	0.014829	0.008423	0.002361	0.023606
18-May-2028	0.127320	15.181700	23.804600	3.718620	53.221982	2.043540	0.024830	0.244033	0.054729	0.004217	0.002368	0.151470	0.000729	0.014685	0.008341	0.002338	0.023376
19-May-2028	0.138139	14.759500	23.142600	3.615240	51.742030	1.986700	0.024139	0.237245	0.053208	0.004100	0.002303	0.147259	0.000708	0.014276	0.008109	0.002273	0.022726
20-May-2028	0.142112	14.406100	22.588400	3.528680	50.503136	1.939120	0.023561	0.231563	0.051934	0.004002	0.002247	0.143734	0.000691	0.013934	0.007915	0.002218	0.022181
21-May-2028	0.155315	14.028600	21.996200	3.436270	49.179974	1.888250	0.022943	0.225490	0.050577	0.003897	0.002189	0.139972	0.000673	0.013570	0.007707	0.002160	0.021600
22-May-2028	0.177329	13.795300	21.630400	3.379140	48.362163	1.856850	0.022561	0.221740	0.049736	0.003832	0.002152	0.137644	0.000662	0.013344	0.007579	0.002124	0.021241
23-May-2028	0.200738	13.490500	21.152300	3.304510	47.293751	1.815790	0.022063	0.216837	0.048639	0.003747	0.002105	0.134606	0.000647	0.013049	0.007412	0.002077	0.020771
24-May-2028	0.219674	13.103400	20.545300	3.209720	45.936817	1.763660	0.021429	0.210613	0.047245	0.003640	0.002044	0.130746	0.000629	0.012675	0.007199	0.002018	0.020175

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-May-2028	0.241311	12.732100	19.963000	3.118820	44.635354	1.713660	0.020822	0.204643	0.045908	0.003537	0.001987	0.127045	0.000611	0.012316	0.006995	0.001960	0.019603
26-May-2028	0.259122	12.440000	19.504800	3.047290	43.611420	1.674320	0.020344	0.199944	0.044856	0.003456	0.001941	0.124132	0.000597	0.012034	0.006834	0.001915	0.019153
27-May-2028	0.280156	12.370600	19.396100	3.030300	43.368164	1.664980	0.020230	0.198829	0.044606	0.003436	0.001930	0.123440	0.000594	0.011967	0.006796	0.001905	0.019047
28-May-2028	0.308354	12.232500	19.179600	2.996490	42.884098	1.646390	0.020005	0.196609	0.044108	0.003398	0.001909	0.122063	0.000587	0.011833	0.006720	0.001883	0.018834
29-May-2028	0.330088	12.206600	19.138800	2.990170	42.793400	1.642880	0.019962	0.196191	0.044016	0.003391	0.001905	0.121807	0.000586	0.011808	0.006706	0.001879	0.018794
30-May-2028	0.347107	12.102000	18.974700	2.964600	42.426917	1.628780	0.019791	0.194508	0.043640	0.003362	0.001888	0.120769	0.000581	0.011707	0.006649	0.001863	0.018633
31-May-2028	0.369310	12.008900	18.828500	2.941850	42.100762	1.616200	0.019638	0.193008	0.043306	0.003336	0.001874	0.119846	0.000576	0.011617	0.006597	0.001849	0.018489
1-Jun-2028	0.483839	11.870300	18.610900	2.907950	41.615077	1.597500	0.019411	0.190776	0.042809	0.003297	0.001853	0.118467	0.000570	0.011483	0.006521	0.001828	0.018276
2-Jun-2028	0.649817	11.628500	18.218100	2.852710	40.783824	1.562160	0.018998	0.186708	0.042149	0.003226	0.001822	0.116356	0.000557	0.011267	0.006386	0.001791	0.017910
3-Jun-2028	1.080730	11.541500	18.070100	2.834780	40.492750	1.548530	0.018841	0.185163	0.044351	0.003199	0.001857	0.115762	0.000553	0.011198	0.006337	0.001778	0.017781
4-Jun-2028	1.129705	11.389600	17.804100	2.810170	40.012111	1.523610	0.018558	0.182371	0.042824	0.003150	0.001835	0.115446	0.000544	0.011108	0.006250	0.001756	0.017561
5-Jun-2028	1.080272	11.146300	17.372800	2.760500	39.200050	1.481520	0.018096	0.177823	0.042275	0.003069	0.001810	0.113743	0.000530	0.010916	0.006109	0.001721	0.017211
6-Jun-2028	1.041177	10.994100	17.117500	2.728070	38.686460	1.457480	0.017826	0.175155	0.041760	0.003021	0.001783	0.112363	0.000522	0.010790	0.006023	0.001698	0.016985
7-Jun-2028	0.979314	10.799100	16.791400	2.686190	38.027083	1.426930	0.017480	0.171752	0.041583	0.002961	0.001773	0.110861	0.000511	0.010627	0.005913	0.001669	0.016694
8-Jun-2028	1.036061	10.581200	16.423100	2.640590	37.295206	1.392020	0.017089	0.167893	0.041436	0.002893	0.001759	0.109273	0.000499	0.010451	0.005789	0.001637	0.016372
9-Jun-2028	1.172027	10.347300	16.024700	2.592470	36.513000	1.354170	0.016665	0.163708	0.041144	0.002819	0.001744	0.107697	0.000486	0.010265	0.005656	0.001603	0.016027
10-Jun-2028	1.390421	10.230000	15.833100	2.565900	36.110686	1.336680	0.016460	0.161661	0.040813	0.002784	0.001731	0.106963	0.000480	0.010161	0.005590	0.001585	0.015847
11-Jun-2028	1.682687	10.014500	15.467300	2.524530	35.402221	1.301900	0.016069	0.157786	0.040414	0.002716	0.001714	0.105829	0.000468	0.010011	0.005468	0.001553	0.015527
12-Jun-2028	1.844230	9.818340	15.128000	2.482290	34.738465	1.268980	0.015705	0.154170	0.039826	0.002652	0.001685	0.103801	0.000457	0.009839	0.005355	0.001524	0.015239
13-Jun-2028	2.064764	9.605030	14.756900	2.440430	34.033451	1.232810	0.015307	0.150171	0.039493	0.002583	0.001670	0.102474	0.000445	0.009680	0.005233	0.001493	0.014926
14-Jun-2028	2.198791	9.470260	14.526500	2.412550	33.582120	1.210830	0.015060	0.147629	0.039136	0.002541	0.001653	0.101552	0.000438	0.009573	0.005156	0.001472	0.014724
15-Jun-2028	2.311150	9.311370	14.255400	2.379480	33.049190	1.185060	0.014770	0.144663	0.038957	0.002491	0.001639	0.100464	0.000429	0.009447	0.005066	0.001449	0.014485
16-Jun-2028	2.358847	9.226620	14.115900	2.359970	32.757227	1.172470	0.014623	0.143114	0.038746	0.002468	0.001628	0.099795	0.000425	0.009373	0.005018	0.001435	0.014352
17-Jun-2028	2.338967	9.062670	13.833600	2.325990	32.207914	1.145730	0.014329	0.140091	0.038444	0.002420	0.001615	0.098807	0.000415	0.009246	0.004925	0.001410	0.014104
18-Jun-2028	2.325668	8.921820	13.592300	2.296570	31.735060	1.122930	0.014077	0.137512	0.038241	0.002378	0.001603	0.097921	0.000408	0.009136	0.004846	0.001389	0.013891
19-Jun-2028	2.331041	8.724570	13.249400	2.257120	31.080071	1.089910	0.013716	0.133867	0.038014	0.002317	0.001589	0.096766	0.000396	0.008988	0.004733	0.001360	0.013599
20-Jun-2028	2.273589	8.617300	13.065800	2.234880	30.720634	1.072460	0.013522	0.131931	0.037843	0.002285	0.001580	0.096071	0.000391	0.008904	0.004672	0.001344	0.013437
21-Jun-2028	2.258881	8.460040	12.792500	2.203180	30.197415	1.046210	0.013235	0.129027	0.037656	0.002237	0.001569	0.095166	0.000382	0.008786	0.004582	0.001320	0.013201
22-Jun-2028	2.271978	8.299400	12.512500	2.171700	29.666662	1.019120	0.012939	0.126058	0.037489	0.002187	0.001560	0.094383	0.000372	0.008666	0.004491	0.001296	0.012962
23-Jun-2028	2.333941	8.176040	12.297800	2.146840	29.256259	0.998285	0.012710	0.123773	0.037287	0.002149	0.001551	0.093507	0.000365	0.008574	0.004420	0.001278	0.012778
24-Jun-2028	2.469374	8.041620	12.063500	2.120040	28.810250	0.975636	0.012461	0.121275	0.037158	0.002107	0.001541	0.092786	0.000358	0.008474	0.004343	0.001258	0.012576
25-Jun-2028	2.714595	7.922250	11.855000	2.096250	28.414216	0.955475	0.012240	0.119049	0.037052	0.002071	0.001533	0.092265	0.000351	0.008386	0.004275	0.001240	0.012396
26-Jun-2028	2.914984	7.789970	11.621800	2.070550	27.978080	0.932730	0.011995	0.116573	0.036907	0.002030	0.001524	0.091495	0.000343	0.008291	0.004199	0.001220	0.012199
27-Jun-2028	3.259569	7.668590	11.407000	2.048180	27.582874	0.911274	0.011764	0.114321	0.036759	0.001991	0.001519	0.090746	0.000336	0.008205	0.004129	0.001203	0.012026
28-Jun-2028	3.552528	7.526670	11.156900	2.020060	27.112702	0.887120	0.011503	0.111657	0.036641	0.001947	0.001512	0.090361	0.000328	0.008103	0.004048	0.001181	0.011811
29-Jun-2028	4.004989	7.296450	10.749200	1.977400	26.362169	0.846484	0.011066	0.107368	0.036375	0.001873	0.001500	0.089053	0.000314	0.007941	0.003915	0.001148	0.011480
30-Jun-2028	4.283661	7.207540	10.593200	1.959850	26.067890	0.831418	0.010905	0.105731	0.036315	0.001848	0.001494	0.088732	0.000309	0.007876	0.003864	0.001135	0.011346
1-Jul-2028	5.266692	6.290820	9.054790	1.748300	22.907677	0.689287	0.009229	0.089301	0.034002	0.001586	0.001393	0.081783	0.000261	0.007162	0.003362	0.000993	0.009932
2-Jul-2028	6.147702	6.347280	9.158120	1.753590	23.070442	0.701319	0.009353	0.090508	0.033859	0.001622	0.001388	0.082416	0.000264	0.007204	0.003399	0.001000	0.009998
3-Jul-2028	7.182962	6.300110	9.066160	1.744690	22.916008	0.693102	0.009281	0.089779	0.033716	0.001624	0.001384	0.082884	0.000261	0.007179	0.003373	0.000991	0.009914
4-Jul-2028	8.839160	6.355340	9.165260	1.751130	23.080437	0.703832	0.009391	0.090879	0.033730	0.001652	0.001383	0.083496	0.000265	0.007226	0.003409	0.000999	0.009991
5-Jul-2028	9.906663	6.633370	9.657720	1.793210	23.947964	0.754038	0.009912	0.096078	0.034147	0.001759	0.001389	0.085708	0.000281	0.007456	0.003581	0.001040	0.010399
6-Jul-2028	10.733275	6.240480	8.942260	1.732570	22.717202	0.682563	0.009196	0.088935	0.033493	0.001643	0.001379	0.084195	0.000258	0.007159	0.003343	0.000980	0.009800
7-Jul-2028	11.529638	6.686070	9.765320	1.802320	24.117071	0.764782	0.010002	0.097009	0.033974	0.001770	0.001387	0.084927	0.000285	0.007468	0.003610	0.001048	0.010478
8-Jul-2028	11.815123	6.977700	10.298400	1.848060	25.033628	0.818098	0.010532	0.102316	0.034367	0.001858	0.001394	0.085742	0.000303	0.007680	0.003785	0.001092	0.010919
9-Jul-2028	11.913796	6.901380	10.159600	1.835880	24.792900	0.804185	0.010392	0.100909	0.034243	0.001834	0.001392	0.085469	0.000298	0.007624	0.003740	0.001080	0.010803
10-Jul-2028	12.324031	7.344830	10.970300	1.905130	26.185366	0.885316	0.011199	0.108983	0.034833	0.001969	0.001402	0.086728	0.000325	0.007950	0.004007	0.001147	0.011474
11-Jul-2028	12.427015	6.659310	9.716820	1.802120	24.049427	0.759370	0.009945	0.096432	0.033753	0.001762	0.001388	0.084888	0.000283	0.007430	0.003589	0.001043	0.010432
12-Jul-2028	12.209383	6.447990	9.326910	1.770790	23.392744	0.720191	0.009560	0.092565	0.033441	0.001702	0.001385	0.084511	0.000270	0.007275	0.003461	0.001011	0.010109
13-Jul-2028	11.987048	6.555200	9.522800	1.788420	23.733048	0.739671	0.009753	0.094494	0.033542	0.001734	0.001388	0.084825	0.000277	0.007349	0.003524	0.001027	0.010270
14-Jul-2028	11.877290	6.621450	9.643300	1.799610	23.944555	0.751642	0.009873	0.095690	0.033599	0.001755	0.001389	0.085060	0.000281	0.007395	0.003563	0.001037	0.010369
15-Jul-2028	11.506792	6.653240	9.701350	1.805710	24.049054	0.757302	0.009928	0.096244	0.033591	0.001765	0.001390	0.085170	0.000283	0.007413	0.003581	0.001042	0.010416

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16-Jul-2028	10.770225	6.684610	9.758940	1.811720	24.152134	0.762912	0.009983	0.096791	0.033581	0.001774	0.001392	0.085260	0.000285	0.007431	0.003599	0.001046	0.010462
17-Jul-2028	10.902327	6.804350	9.977820	1.831120	24.531014	0.784785	0.010201	0.098971	0.033700	0.001811	0.001394	0.085636	0.000292	0.007515	0.003670	0.001064	0.010642
18-Jul-2028	12.373673	7.006170	10.347900	1.864420	25.172088	0.821635	0.010566	0.102631	0.033878	0.001873	0.001399	0.086202	0.000304	0.007653	0.003790	0.001095	0.010946
19-Jul-2028	12.696575	7.250900	10.792500	1.902820	25.941310	0.866099	0.011011	0.107063	0.034205	0.001948	0.001405	0.087005	0.000319	0.007835	0.003938	0.001131	0.011314
20-Jul-2028	12.797642	7.029420	10.388800	1.869210	25.249869	0.825519	0.010605	0.103015	0.033878	0.001880	0.001400	0.086332	0.000306	0.007668	0.003803	0.001098	0.010980
21-Jul-2028	12.526752	7.118600	10.551900	1.884170	25.534156	0.841723	0.010766	0.104622	0.033950	0.001907	0.001403	0.086597	0.000311	0.007728	0.003856	0.001111	0.011114
22-Jul-2028	13.304100	7.681900	11.582400	1.972110	27.302853	0.944840	0.011790	0.114878	0.034669	0.002077	0.001415	0.088131	0.000346	0.008138	0.004195	0.001197	0.011967
23-Jul-2028	13.463394	7.709470	11.627700	1.977920	27.395621	0.949356	0.011842	0.115331	0.034699	0.002091	0.001416	0.088649	0.000347	0.008159	0.004211	0.001200	0.012001
24-Jul-2028	14.369423	7.594990	11.411500	1.961660	27.042806	0.927742	0.011635	0.113276	0.034475	0.002065	0.001415	0.088663	0.000340	0.008079	0.004141	0.001182	0.011821
25-Jul-2028	13.758042	7.278620	10.839900	1.913940	26.056319	0.870115	0.011052	0.107458	0.033958	0.001963	0.001408	0.087421	0.000321	0.007831	0.003948	0.001135	0.011345
26-Jul-2028	13.280440	7.479270	11.208200	1.945550	26.687512	0.906906	0.011416	0.111102	0.034192	0.002022	0.001412	0.087904	0.000333	0.007973	0.004068	0.001165	0.011649
27-Jul-2028	12.889179	7.417170	11.095300	1.936830	26.496539	0.895458	0.011300	0.109949	0.034064	0.002002	0.001411	0.087707	0.000329	0.007923	0.004030	0.001155	0.011555
28-Jul-2028	12.862829	7.789890	11.776100	1.994690	27.665489	0.963634	0.011979	0.116735	0.034560	0.002116	0.001419	0.088779	0.000352	0.008197	0.004255	0.001212	0.012118
29-Jul-2028	12.631331	7.461590	11.175700	1.945760	26.644230	0.903243	0.011377	0.110702	0.034040	0.002017	0.001413	0.087903	0.000332	0.007947	0.004054	0.001162	0.011619
30-Jul-2028	12.229565	7.428580	11.116800	1.941430	26.543973	0.897167	0.011314	0.110070	0.033946	0.002005	0.001412	0.087731	0.000330	0.007917	0.004033	0.001157	0.011569
31-Jul-2028	13.077517	7.436280	11.131800	1.944400	26.575430	0.898395	0.011323	0.110156	0.033869	0.002007	0.001413	0.087726	0.000331	0.007913	0.004036	0.001158	0.011578
1-Aug-2028	13.237590	7.944540	12.062600	2.022910	28.167860	0.991655	0.012249	0.119423	0.034533	0.002159	0.001423	0.089053	0.000362	0.008285	0.004343	0.001235	0.012349
2-Aug-2028	13.920965	8.389440	12.875200	2.091470	29.561105	1.073020	0.013057	0.127504	0.035148	0.002293	0.001433	0.090292	0.000389	0.008615	0.004612	0.001302	0.013022
3-Aug-2028	13.972015	8.815270	13.655000	2.157210	30.895120	1.151020	0.013825	0.135175	0.035701	0.002422	0.001441	0.091421	0.000415	0.008926	0.004869	0.001367	0.013667
4-Aug-2028	14.136871	8.667070	13.388400	2.136870	30.441304	1.123770	0.013541	0.132323	0.035369	0.002374	0.001438	0.090866	0.000406	0.008799	0.004777	0.001344	0.013443
5-Aug-2028	14.289994	8.621390	13.304400	2.130270	30.300063	1.115250	0.013456	0.131466	0.035296	0.002360	0.001438	0.090749	0.000403	0.008764	0.004748	0.001337	0.013374
6-Aug-2028	14.884227	8.519190	13.114700	2.116660	29.988823	1.095950	0.013262	0.129480	0.035107	0.002333	0.001436	0.090673	0.000397	0.008682	0.004684	0.001321	0.013213
7-Aug-2028	15.764881	7.784810	11.776600	2.008010	27.707656	0.961093	0.011908	0.115923	0.033863	0.002109	0.001422	0.088526	0.000352	0.008113	0.004235	0.001210	0.012095
8-Aug-2028	15.827756	8.059100	12.274900	2.050690	28.568314	1.011060	0.012406	0.120895	0.034212	0.002196	0.001428	0.089489	0.000369	0.008317	0.004401	0.001251	0.012507
9-Aug-2028	15.935442	8.832680	13.689100	2.167440	30.980720	1.152980	0.013819	0.135036	0.035350	0.002427	0.001444	0.091496	0.000416	0.008899	0.004871	0.001368	0.013681
10-Aug-2028	16.444412	8.017690	12.205400	2.046590	28.448030	1.003440	0.012315	0.119969	0.034053	0.002177	0.001427	0.089088	0.000366	0.008268	0.004372	0.001245	0.012447
11-Aug-2028	16.817037	7.918600	12.023600	2.031890	28.140067	0.985099	0.012132	0.118133	0.033873	0.002147	0.001426	0.088803	0.000360	0.008192	0.004312	0.001230	0.012295
12-Aug-2028	16.783271	8.200460	12.542800	2.077450	29.031488	1.036640	0.012632	0.123121	0.034154	0.002230	0.001431	0.089439	0.000378	0.008385	0.004479	0.001272	0.012723
13-Aug-2028	16.917908	8.542220	13.168500	2.130490	30.103281	1.099220	0.013250	0.129288	0.034564	0.002332	0.001438	0.090338	0.000399	0.008633	0.004685	0.001324	0.013239
14-Aug-2028	16.269037	8.199400	12.544800	2.080170	29.040042	1.036240	0.012614	0.122915	0.033959	0.002227	0.001432	0.089291	0.000378	0.008364	0.004475	0.001272	0.012718
15-Aug-2028	16.044587	8.596610	13.269900	2.140810	30.281591	1.108950	0.013338	0.130162	0.034535	0.002348	0.001440	0.090430	0.000402	0.008663	0.004716	0.001332	0.013319
16-Aug-2028	15.841565	8.780640	13.605300	2.168720	30.856047	1.142620	0.013673	0.133502	0.034760	0.002403	0.001444	0.090949	0.000413	0.008800	0.004828	0.001360	0.013596
17-Aug-2028	15.740254	8.597620	13.272200	2.142240	30.290001	1.108910	0.013331	0.130073	0.034422	0.002347	0.001440	0.090409	0.000402	0.008654	0.004715	0.001332	0.013317
18-Aug-2028	15.446604	8.194680	12.536700	2.082480	29.037769	1.034810	0.012588	0.122623	0.033757	0.002226	0.001432	0.089302	0.000378	0.008344	0.004468	0.001270	0.012704
19-Aug-2028	14.897425	8.409790	12.932200	2.117290	29.718246	1.074100	0.012969	0.126424	0.033958	0.002290	0.001437	0.089850	0.000391	0.008492	0.004596	0.001303	0.013029
20-Aug-2028	14.500537	8.498090	13.090800	2.133480	30.005401	1.089610	0.013116	0.127869	0.033975	0.002322	0.001439	0.090356	0.000396	0.008549	0.004648	0.001316	0.013156
21-Aug-2028	13.459758	8.202770	12.551200	2.088670	29.083460	1.035410	0.012575	0.122460	0.033515	0.002233	0.001433	0.089532	0.000378	0.008327	0.004468	0.001271	0.012707
22-Aug-2028	12.402638	8.069850	12.309300	2.069770	28.673728	1.010840	0.012325	0.119950	0.033238	0.002191	0.001431	0.089117	0.000370	0.008220	0.004386	0.001250	0.012503
23-Aug-2028	11.070573	8.143930	12.444800	2.082250	28.910099	1.024200	0.012454	0.121226	0.033290	0.002214	0.001433	0.089348	0.000375	0.008269	0.004429	0.001261	0.012613
24-Aug-2028	10.811887	8.343610	12.809400	2.113870	29.538911	1.060580	0.012812	0.124800	0.033528	0.002276	0.001437	0.089958	0.000387	0.008414	0.004549	0.001291	0.012915
25-Aug-2028	10.624590	9.250630	14.465700	2.252190	32.373342	1.226730	0.014465	0.141336	0.034820	0.002551	0.001456	0.092507	0.000442	0.009092	0.005100	0.001429	0.014288
26-Aug-2028	10.323163	8.300320	12.731500	2.109910	29.414508	1.052240	0.012717	0.123834	0.033333	0.002263	0.001437	0.089851	0.000384	0.008367	0.004520	0.001285	0.012845
27-Aug-2028	10.040396	8.649690	13.372200	2.164540	30.511852	1.116220	0.013347	0.130125	0.033766	0.002367	0.001444	0.090733	0.000406	0.008619	0.004730	0.001338	0.013375
28-Aug-2028	9.750509	8.372770	12.866000	2.124070	29.653727	1.065100	0.012831	0.124949	0.033263	0.002284	0.001439	0.090017	0.000389	0.008403	0.004560	0.001295	0.012950
29-Aug-2028	10.037836	8.599620	13.277600	2.160800	30.371426	1.106080	0.013232	0.128930	0.033500	0.002359	0.001444	0.090925	0.000402	0.008566	0.004696	0.001329	0.013286
30-Aug-2028	10.319069	8.436090	12.977700	2.137150	29.865700	1.075760	0.012927	0.125871	0.033206	0.002311	0.001441	0.090572	0.000392	0.008440	0.004596	0.001304	0.013036
31-Aug-2028	9.842689	8.397800	12.911900	2.131810	29.748100	1.068960	0.012855	0.125154	0.033112	0.002294	0.001440	0.090197	0.000390	0.008403	0.004571	0.001298	0.012982
1-Sep-2028	8.792010	8.409280	12.934800	2.134390	29.787390	1.071080	0.012871	0.125314	0.033059	0.002296	0.001441	0.090134	0.000391	0.008405	0.004577	0.001300	0.012999
2-Sep-2028	7.949398	8.505660	13.112500	2.148550	30.086362	1.089070	0.013049	0.127099	0.033180	0.002325	0.001442	0.090366	0.000397	0.008475	0.004636	0.001314	0.013145
3-Sep-2028	7.571556	8.695840	13.461600	2.177250	30.679428	1.124170	0.013397	0.130586	0.033434	0.002382	0.001445	0.090823	0.000409	0.008615	0.004751	0.001343	0.013433
4-Sep-2028	7.714219	8.572740	13.238300	2.158930	30.296606	1.101870	0.013169	0.128295	0.033168	0.002349	0.001441	0.090555	0.000401	0.008516	0.004676	0.001324	0.013242
5-Sep-2028	7.582839	8.604880	13.299500	2.163720	30.396584	1.108060	0.013229	0.128901	0.033187	0.002357	0.001441	0.090539	0.000403	0.008536	0.004695	0.001329	0.013292

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Sep-2028	7.564880	8.852850	13.763400	2.201200	31.170108	1.154990	0.013681	0.133444	0.033432	0.002433	0.001444	0.091183	0.000419	0.008702	0.004845	0.001367	0.013666
7-Sep-2028	6.899079	9.139760	14.280600	2.245140	32.067467	1.206670	0.014204	0.138665	0.033868	0.002520	0.001451	0.091954	0.000436	0.008928	0.005020	0.001410	0.014100
8-Sep-2028	6.009032	8.902760	13.847400	2.209230	31.327801	1.163210	0.013770	0.134316	0.033495	0.002450	0.001446	0.091351	0.000422	0.008749	0.004876	0.001374	0.013739
9-Sep-2028	5.774749	8.981310	13.994400	2.221450	31.574262	1.178060	0.013912	0.135747	0.033531	0.002474	0.001446	0.091499	0.000427	0.008800	0.004923	0.001386	0.013857
10-Sep-2028	5.879831	9.320270	14.614800	2.272770	32.631981	1.240420	0.014531	0.141943	0.033994	0.002578	0.001452	0.092428	0.000447	0.009051	0.005129	0.001437	0.014369
11-Sep-2028	5.686254	9.018940	14.065300	2.226750	31.690050	1.185340	0.013980	0.136427	0.033532	0.002487	0.001445	0.091578	0.000429	0.008824	0.004946	0.001391	0.013911
12-Sep-2028	4.712745	8.916180	13.881800	2.210910	31.368229	1.167110	0.013793	0.134557	0.033309	0.002457	0.001442	0.091212	0.000423	0.008739	0.004883	0.001375	0.013754
13-Sep-2028	4.846267	9.229170	14.453000	2.258880	32.347305	1.224590	0.014360	0.140221	0.033690	0.002558	0.001447	0.092281	0.000442	0.008970	0.005073	0.001422	0.014222
14-Sep-2028	5.500222	8.921130	13.893200	2.211850	31.384460	1.168470	0.013798	0.134606	0.033204	0.002463	0.001440	0.091305	0.000423	0.008735	0.004886	0.001376	0.013756
15-Sep-2028	5.291268	9.043210	14.119400	2.230160	31.764694	1.191290	0.014022	0.136853	0.033339	0.002499	0.001441	0.091544	0.000431	0.008821	0.004960	0.001394	0.013941
16-Sep-2028	4.759945	9.277930	14.552000	2.265640	32.496897	1.234840	0.014451	0.141154	0.033624	0.002570	0.001445	0.092075	0.000445	0.008990	0.005102	0.001430	0.014297
17-Sep-2028	4.276064	10.121300	16.094400	2.393850	35.130760	1.389710	0.015991	0.156567	0.034805	0.002825	0.001461	0.094365	0.000497	0.009618	0.005614	0.001557	0.015574
18-Sep-2028	3.689239	9.329270	14.647400	2.273400	32.657048	1.244450	0.014544	0.142076	0.033647	0.002585	0.001445	0.092164	0.000449	0.009024	0.005133	0.001437	0.014373
19-Sep-2028	3.694173	10.150100	16.146800	2.398110	35.220217	1.394980	0.016043	0.157072	0.034824	0.002834	0.001461	0.094461	0.000499	0.009639	0.005632	0.001562	0.015616
20-Sep-2028	3.892439	9.586170	15.120800	2.312360	33.458965	1.292110	0.015013	0.146773	0.033952	0.002663	0.001449	0.092797	0.000465	0.009209	0.005289	0.001476	0.014761
21-Sep-2028	4.627907	9.405050	14.794800	2.284400	32.891569	1.259610	0.014683	0.143474	0.033611	0.002609	0.001443	0.092152	0.000454	0.009064	0.005179	0.001449	0.014486
22-Sep-2028	4.421637	9.481080	14.935000	2.295840	33.128526	1.273770	0.014822	0.144865	0.033693	0.002632	0.001444	0.092339	0.000458	0.009119	0.005225	0.001460	0.014600
23-Sep-2028	4.438129	9.579240	15.121300	2.310220	33.432848	1.292740	0.015002	0.146682	0.033738	0.002661	0.001443	0.092405	0.000465	0.009180	0.005284	0.001475	0.014749
24-Sep-2028	4.255547	9.446610	14.877700	2.290240	33.019393	1.268270	0.014759	0.144236	0.033539	0.002622	0.001441	0.092114	0.000457	0.009082	0.005204	0.001455	0.014545
25-Sep-2028	4.233153	10.075700	16.026800	2.385800	34.983747	1.383640	0.015907	0.155721	0.034434	0.002813	0.001453	0.093879	0.000495	0.009553	0.005586	0.001550	0.015497
26-Sep-2028	4.337645	10.129400	16.125600	2.394040	35.151769	1.393540	0.016005	0.156706	0.034502	0.002829	0.001455	0.093992	0.000498	0.009592	0.005618	0.001558	0.015579
27-Sep-2028	4.212939	10.118300	16.108000	2.392300	35.116887	1.391810	0.015984	0.156495	0.034433	0.002825	0.001453	0.093855	0.000498	0.009578	0.005611	0.001556	0.015561
28-Sep-2028	4.041671	9.819200	15.569700	2.346280	34.180523	1.338060	0.015439	0.151055	0.033911	0.002733	0.001445	0.092828	0.000480	0.009341	0.005429	0.001511	0.015108
29-Sep-2028	3.832539	10.020400	15.939900	2.376770	34.808478	1.375310	0.015807	0.154739	0.034142	0.002794	0.001448	0.093261	0.000492	0.009486	0.005551	0.001541	0.015412
30-Sep-2028	3.167680	9.898600	15.719400	2.357940	34.426801	1.353310	0.015584	0.152513	0.033926	0.002758	0.001444	0.092893	0.000485	0.009391	0.005477	0.001523	0.015226
1-Oct-2028	3.399538	9.836780	15.607400	2.348450	34.233357	1.342130	0.015472	0.151387	0.033822	0.002739	0.001443	0.092694	0.000481	0.009343	0.005440	0.001513	0.015132
2-Oct-2028	3.049800	9.423900	14.851700	2.285580	32.943497	1.266310	0.014718	0.143834	0.033250	0.002615	0.001435	0.091630	0.000456	0.009037	0.005189	0.001451	0.014505
3-Oct-2028	2.693341	9.315650	14.653100	2.268980	32.604838	1.246360	0.014521	0.141863	0.033121	0.002582	0.001433	0.091348	0.000449	0.008958	0.005124	0.001434	0.014341
4-Oct-2028	2.597023	9.256450	14.544800	2.259680	32.418718	1.235560	0.014414	0.140792	0.033130	0.002565	0.001434	0.091205	0.000446	0.008915	0.005088	0.001425	0.014252
5-Oct-2028	2.376072	9.224420	14.486400	2.254520	32.317490	1.229800	0.014356	0.140219	0.033020	0.002556	0.001431	0.091127	0.000444	0.008892	0.005069	0.001420	0.014203
6-Oct-2028	2.214458	9.211840	14.464000	2.252340	32.277101	1.227620	0.014334	0.140002	0.032979	0.002552	0.001431	0.091084	0.000443	0.008882	0.005061	0.001418	0.014184
7-Oct-2028	2.225243	9.205840	14.452400	2.251550	32.258865	1.226420	0.014323	0.139892	0.032975	0.002550	0.001430	0.091067	0.000443	0.008879	0.005058	0.001418	0.014175
8-Oct-2028	2.194696	9.192020	14.427600	2.249210	32.214721	1.223960	0.014299	0.139653	0.032963	0.002545	0.001430	0.091002	0.000442	0.008869	0.005049	0.001415	0.014155
9-Oct-2028	2.098095	9.163620	14.375600	2.244610	32.124863	1.218800	0.014249	0.139151	0.032935	0.002537	0.001429	0.090934	0.000440	0.008849	0.005033	0.001411	0.014112
10-Oct-2028	2.010927	9.131920	14.318100	2.239340	32.024006	1.213210	0.014192	0.138593	0.032877	0.002529	0.001428	0.090879	0.000438	0.008826	0.005014	0.001406	0.014064
11-Oct-2028	1.644676	9.111130	14.280600	2.235890	31.957887	1.209480	0.014156	0.138230	0.032857	0.002522	0.001427	0.090800	0.000437	0.008810	0.005001	0.001403	0.014033
12-Oct-2028	1.191958	9.092160	14.246300	2.232720	31.897464	1.206100	0.014122	0.137899	0.032833	0.002516	0.001426	0.090733	0.000436	0.008797	0.004990	0.001400	0.014004
13-Oct-2028	1.164243	9.083730	14.231200	2.231270	31.870444	1.204610	0.014108	0.137755	0.032834	0.002513	0.001426	0.090673	0.000435	0.008791	0.004985	0.001399	0.013992
14-Oct-2028	1.046695	9.075950	14.217000	2.229970	31.845664	1.203220	0.014094	0.137619	0.032833	0.002511	0.001426	0.090645	0.000435	0.008785	0.004980	0.001398	0.013981
15-Oct-2028	0.874719	9.052030	14.174000	2.225870	31.769052	1.199060	0.014052	0.137199	0.032773	0.002505	0.001425	0.090636	0.000433	0.008767	0.004966	0.001394	0.013944
16-Oct-2028	0.862995	9.062100	14.188900	2.228680	31.805768	1.200220	0.014067	0.137343	0.032818	0.002508	0.001427	0.090756	0.000434	0.008778	0.004972	0.001396	0.013959
17-Oct-2028	0.866768	9.138000	14.305800	2.247920	32.074521	1.209950	0.014183	0.138472	0.033100	0.002529	0.001439	0.091559	0.000437	0.008853	0.005013	0.001408	0.014076
18-Oct-2028	0.863521	9.228770	14.445200	2.271860	32.399758	1.221530	0.014321	0.139819	0.033446	0.002556	0.001456	0.092696	0.000442	0.008944	0.005062	0.001421	0.014215
19-Oct-2028	0.864547	9.305490	14.563500	2.290550	32.668293	1.231390	0.014438	0.140961	0.033722	0.002577	0.001468	0.093423	0.000445	0.009018	0.005104	0.001433	0.014332
20-Oct-2028	0.864650	9.317260	14.578900	2.294410	32.713579	1.232420	0.014453	0.141107	0.033782	0.002581	0.001471	0.093652	0.000446	0.009032	0.005110	0.001435	0.014350
21-Oct-2028	0.865669	9.327780	14.597200	2.296460	32.748289	1.234070	0.014472	0.141288	0.033824	0.002583	0.001472	0.093662	0.000446	0.009041	0.005116	0.001437	0.014367
22-Oct-2028	0.873757	9.327980	14.598600	2.296190	32.747676	1.234250	0.014473	0.141306	0.033832	0.002581	0.001472	0.093590	0.000446	0.009041	0.005116	0.001437	0.014369
23-Oct-2028	0.870136	9.351670	14.635700	2.302050	32.830962	1.237360	0.014510	0.141666	0.033923	0.002587	0.001476	0.093893	0.000447	0.009064	0.005129	0.001441	0.014406
24-Oct-2028	0.865119	9.394450	14.700900	2.313130	32.983411	1.242730	0.014575	0.142295	0.034085	0.002600	0.001483	0.094314	0.000449	0.009107	0.005153	0.001447	0.014471
25-Oct-2028	0.866422	9.431250	14.757600	2.322480	33.113804	1.247450	0.014631	0.142842	0.034222	0.002610	0.001489	0.094722	0.000451	0.009143	0.005173	0.001453	0.014528
26-Oct-2028	0.867625	9.463650	14.808700	2.330360	33.227157	1.251790	0.014682	0.143337	0.034338	0.002619	0.001494	0.095033	0.000453	0.009174	0.005190	0.001458	0.014578
27-Oct-2028	0.868556	9.503420	14.871100	2.340090	33.366530	1.257080	0.014743	0.143941	0.034481	0.002630	0.001500	0.095423	0.000455	0.009213	0.005212	0.001464	0.014639

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Oct-2028	0.870285	9.538210	14.925700	2.348600	33.488445	1.261720	0.014798	0.144470	0.034607	0.002640	0.001506	0.095767	0.000456	0.009246	0.005231	0.001469	0.014693
29-Oct-2028	0.872822	9.563370	14.965900	2.354540	33.575731	1.265180	0.014837	0.144860	0.034694	0.002647	0.001509	0.095988	0.000457	0.009270	0.005245	0.001473	0.014732
30-Oct-2028	0.874099	9.594870	15.015400	2.362190	33.685889	1.269380	0.014887	0.145341	0.034812	0.002655	0.001514	0.096289	0.000459	0.009301	0.005263	0.001478	0.014780
31-Oct-2028	0.874153	9.633390	15.075900	2.371570	33.820700	1.274510	0.014947	0.145928	0.034953	0.002666	0.001520	0.096665	0.000461	0.009338	0.005284	0.001484	0.014840
1-Nov-2028	0.874372	9.668220	15.130500	2.380090	33.942756	1.279150	0.015001	0.146456	0.035076	0.002675	0.001526	0.097014	0.000462	0.009372	0.005303	0.001489	0.014893
2-Nov-2028	0.874346	9.697620	15.176800	2.387230	34.045570	1.283100	0.015047	0.146905	0.035182	0.002683	0.001530	0.097300	0.000464	0.009400	0.005319	0.001494	0.014939
3-Nov-2028	0.874501	9.722730	15.216400	2.393290	34.133225	1.286480	0.015086	0.147289	0.035271	0.002690	0.001534	0.097541	0.000465	0.009424	0.005333	0.001498	0.014977
4-Nov-2028	0.874676	9.748060	15.256300	2.399440	34.221800	1.289870	0.015126	0.147675	0.035362	0.002697	0.001538	0.097787	0.000466	0.009449	0.005347	0.001502	0.015016
5-Nov-2028	0.873713	9.776860	15.301500	2.406490	34.322745	1.293710	0.015170	0.148113	0.035465	0.002705	0.001542	0.098073	0.000468	0.009476	0.005363	0.001506	0.015061
6-Nov-2028	0.868417	9.810690	15.353800	2.415030	34.442386	1.298080	0.015222	0.148617	0.035587	0.002715	0.001548	0.098449	0.000469	0.009509	0.005381	0.001511	0.015112
7-Nov-2028	0.863968	9.845080	15.406300	2.423920	34.564867	1.302410	0.015274	0.149123	0.035714	0.002725	0.001554	0.098851	0.000471	0.009544	0.005400	0.001516	0.015165
8-Nov-2028	0.863056	9.882960	15.464900	2.433460	34.698739	1.307330	0.015332	0.149689	0.035850	0.002736	0.001560	0.099263	0.000473	0.009581	0.005420	0.001522	0.015223
9-Nov-2028	0.863876	9.915990	15.516700	2.441560	34.814571	1.311720	0.015384	0.150190	0.035968	0.002745	0.001565	0.099595	0.000474	0.009613	0.005439	0.001527	0.015274
10-Nov-2028	0.864746	9.944980	15.562400	2.448590	34.915909	1.315620	0.015429	0.150632	0.036071	0.002753	0.001570	0.099873	0.000476	0.009640	0.005455	0.001532	0.015318
11-Nov-2028	0.865748	9.980290	15.618100	2.457160	35.039369	1.320350	0.015484	0.151171	0.036197	0.002763	0.001575	0.100212	0.000477	0.009674	0.005474	0.001537	0.015373
12-Nov-2028	0.866744	10.014200	15.671600	2.465410	35.158016	1.324910	0.015537	0.151690	0.036319	0.002772	0.001580	0.100537	0.000479	0.009707	0.005493	0.001543	0.015425
13-Nov-2028	0.867622	10.044700	15.719600	2.472780	35.264524	1.329000	0.015585	0.152155	0.036428	0.002781	0.001585	0.100826	0.000480	0.009736	0.005509	0.001547	0.015472
14-Nov-2028	0.867156	10.079100	15.773800	2.481140	35.384847	1.333600	0.015638	0.152680	0.036552	0.002790	0.001590	0.101156	0.000482	0.009769	0.005528	0.001553	0.015525
15-Nov-2028	0.865739	10.114000	15.828600	2.489670	35.507119	1.338250	0.015693	0.153211	0.036678	0.002799	0.001596	0.101497	0.000484	0.009803	0.005548	0.001558	0.015579
16-Nov-2028	0.861411	10.159100	15.898200	2.501070	35.666679	1.344060	0.015762	0.153884	0.036845	0.002812	0.001604	0.102135	0.000486	0.009847	0.005572	0.001565	0.015648
17-Nov-2028	0.852122	10.212800	15.968700	2.519530	35.876786	1.349920	0.015832	0.154565	0.037104	0.002833	0.001618	0.103222	0.000488	0.009913	0.005599	0.001573	0.015726
18-Nov-2028	0.848623	10.190100	15.934200	2.512610	35.791608	1.346090	0.015798	0.154218	0.037005	0.002826	0.001614	0.102907	0.000487	0.009887	0.005587	0.001569	0.015693
19-Nov-2028	0.851066	10.188800	15.939500	2.511150	35.782349	1.347140	0.015803	0.154277	0.036983	0.002824	0.001611	0.102676	0.000487	0.009883	0.005588	0.001569	0.015693
20-Nov-2028	0.850195	10.219000	15.987800	2.517150	35.882467	1.351300	0.015851	0.154745	0.037076	0.002831	0.001614	0.102868	0.000489	0.009909	0.005604	0.001574	0.015739
21-Nov-2028	0.850779	10.255700	16.045900	2.525960	36.010386	1.356270	0.015908	0.155308	0.037206	0.002841	0.001620	0.103126	0.000490	0.009944	0.005625	0.001580	0.015796
22-Nov-2028	0.851866	10.301200	16.117700	2.536920	36.169133	1.362400	0.015979	0.156005	0.037368	0.002853	0.001627	0.103540	0.000493	0.009987	0.005650	0.001587	0.015866
23-Nov-2028	0.853687	10.340600	16.179500	2.546620	36.307459	1.367630	0.016041	0.156602	0.037510	0.002864	0.001633	0.103935	0.000495	0.010025	0.005671	0.001593	0.015927
24-Nov-2028	0.854375	10.372100	16.229300	2.554220	36.417412	1.371890	0.016090	0.157085	0.037622	0.002872	0.001638	0.104231	0.000496	0.010056	0.005689	0.001598	0.015976
25-Nov-2028	0.854220	10.400400	16.274000	2.561050	36.516203	1.375690	0.016134	0.157518	0.037724	0.002880	0.001642	0.104519	0.000497	0.010083	0.005704	0.001602	0.016019
26-Nov-2028	0.853746	10.443700	16.337400	2.573050	36.673739	1.380700	0.016197	0.158126	0.037896	0.002894	0.001650	0.105111	0.000499	0.010128	0.005727	0.001608	0.016085
27-Nov-2028	0.853743	10.475700	16.388800	2.580500	36.784322	1.385170	0.016248	0.158626	0.038007	0.002902	0.001655	0.105375	0.000501	0.010158	0.005745	0.001613	0.016134
28-Nov-2028	0.853021	10.504800	16.433800	2.587880	36.887375	1.388920	0.016293	0.159061	0.038114	0.002910	0.001660	0.105697	0.000502	0.010187	0.005761	0.001618	0.016179
29-Nov-2028	0.852571	10.547800	16.500900	2.598530	37.038603	1.394570	0.016359	0.159709	0.038271	0.002922	0.001667	0.106139	0.000504	0.010229	0.005784	0.001625	0.016245
30-Nov-2028	0.853332	10.577100	16.547900	2.605370	37.139932	1.398640	0.016406	0.160166	0.038373	0.002930	0.001671	0.106383	0.000506	0.010256	0.005801	0.001629	0.016291
1-Dec-2028	0.853681	10.614900	16.608600	2.614180	37.270599	1.403900	0.016466	0.160755	0.038505	0.002940	0.001676	0.106695	0.000508	0.010291	0.005822	0.001635	0.016349
2-Dec-2028	0.853327	10.651400	16.665900	2.623130	37.398595	1.408750	0.016523	0.161310	0.038637	0.002950	0.001682	0.107056	0.000509	0.010327	0.005842	0.001641	0.016406
3-Dec-2028	0.853009	10.697900	16.737300	2.635000	37.563586	1.414690	0.016594	0.161999	0.038808	0.002964	0.001690	0.107585	0.000512	0.010373	0.005867	0.001648	0.016477
4-Dec-2028	0.853134	10.722500	16.776400	2.640900	37.649309	1.418030	0.016632	0.162378	0.038896	0.002970	0.001693	0.107808	0.000513	0.010396	0.005881	0.001651	0.016515
5-Dec-2028	0.852770	10.755800	16.829200	2.648860	37.765238	1.422550	0.016685	0.162890	0.039015	0.002979	0.001698	0.108114	0.000514	0.010428	0.005899	0.001657	0.016566
6-Dec-2028	0.852294	10.794700	16.888900	2.658810	37.903345	1.427520	0.016744	0.163467	0.039158	0.002990	0.001705	0.108554	0.000516	0.010467	0.005920	0.001663	0.016626
7-Dec-2028	0.852283	10.830800	16.945300	2.667680	38.030014	1.432280	0.016800	0.164013	0.039289	0.003000	0.001711	0.108915	0.000518	0.010501	0.005940	0.001668	0.016681
8-Dec-2028	0.852339	10.869900	17.006800	2.677220	38.166932	1.437510	0.016861	0.164609	0.039430	0.003011	0.001717	0.109296	0.000520	0.010539	0.005961	0.001674	0.016742
9-Dec-2028	0.851800	10.910200	17.069900	2.687150	38.308453	1.442840	0.016923	0.165219	0.039576	0.003022	0.001723	0.109702	0.000522	0.010578	0.005984	0.001680	0.016804
10-Dec-2028	0.851177	10.957600	17.143400	2.699040	38.475774	1.449000	0.016996	0.165930	0.039751	0.003036	0.001731	0.110206	0.000524	0.010625	0.006009	0.001688	0.016877
11-Dec-2028	0.850989	10.991100	17.195800	2.707230	38.593150	1.453440	0.017048	0.166437	0.039871	0.003045	0.001736	0.110538	0.000526	0.010657	0.006028	0.001693	0.016928
12-Dec-2028	0.850847	11.024400	17.248500	2.715300	38.709532	1.457930	0.017100	0.166947	0.039990	0.003054	0.001741	0.110856	0.000527	0.010689	0.006046	0.001698	0.016980
13-Dec-2028	0.850348	11.072900	17.323900	2.727370	38.880341	1.464270	0.017175	0.167677	0.040167	0.003067	0.001749	0.111359	0.000529	0.010736	0.006073	0.001705	0.017054
14-Dec-2028	0.850280	11.111600	17.384400	2.736940	39.016384	1.469380	0.017235	0.168263	0.040308	0.003078	0.001755	0.111753	0.000531	0.010774	0.006094	0.001711	0.017114
15-Dec-2028	0.850392	11.147400	17.440700	2.745640	39.141603	1.474170	0.017291	0.168808	0.040436	0.003088	0.001760	0.112099	0.000533	0.010808	0.006114	0.001717	0.017169
16-Dec-2028	0.850400	11.181700	17.494500	2.754020	39.261759	1.478730	0.017344	0.169329	0.040560	0.003097	0.001766	0.112435	0.000535	0.010841	0.006132	0.001722	0.017222
17-Dec-2028	0.850500	11.212400	17.543300	2.761410	39.368849	1.482900	0.017393	0.169802	0.040670	0.003106	0.001770	0.112717	0.000536	0.010871	0.006149	0.001727	0.017269
18-Dec-2028	0.850230	11.252300	17.605700	2.771250	39.509001	1.488170	0.017455	0.170406	0.040815	0.003117	0.001777	0.113119	0.000538	0.010910	0.006171	0.001733	0.017331

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19-Dec-2028	0.849769	11.292300	17.668100	2.781100	39.649443	1.493440	0.017516	0.171010	0.040960	0.003128	0.001783	0.113524	0.000540	0.010948	0.006193	0.001739	0.017392
20-Dec-2028	0.849716	11.330400	17.727700	2.790540	39.783453	1.498470	0.017575	0.171586	0.041099	0.003138	0.001789	0.113913	0.000542	0.010985	0.006214	0.001745	0.017451
21-Dec-2028	0.849582	11.372100	17.792700	2.800820	39.929910	1.503960	0.017640	0.172216	0.041250	0.003150	0.001796	0.114335	0.000544	0.011026	0.006237	0.001752	0.017515
22-Dec-2028	0.849297	11.412100	17.855300	2.810680	40.070394	1.509250	0.017702	0.172822	0.041395	0.003161	0.001802	0.114738	0.000546	0.011065	0.006259	0.001758	0.017577
23-Dec-2028	0.849333	11.456600	17.925000	2.821670	40.226767	1.515130	0.017771	0.173495	0.041557	0.003173	0.001809	0.115189	0.000548	0.011108	0.006283	0.001765	0.017645
24-Dec-2028	0.849336	11.505300	18.001000	2.833650	40.397705	1.521560	0.017846	0.174232	0.041734	0.003187	0.001817	0.115679	0.000550	0.011155	0.006310	0.001772	0.017720
25-Dec-2028	0.848994	11.550800	18.072300	2.844860	40.557481	1.527590	0.017917	0.174922	0.041899	0.003200	0.001824	0.116136	0.000552	0.011199	0.006335	0.001779	0.017790
26-Dec-2028	0.849002	11.592600	18.137800	2.855170	40.704312	1.533120	0.017982	0.175555	0.042050	0.003211	0.001831	0.116557	0.000554	0.011240	0.006358	0.001785	0.017855
27-Dec-2028	0.849034	11.637000	18.206600	2.866300	40.861012	1.538890	0.018050	0.176221	0.042213	0.003224	0.001838	0.117030	0.000556	0.011283	0.006382	0.001792	0.017923
28-Dec-2028	0.848656	11.699000	18.303300	2.881670	41.079120	1.547040	0.018146	0.177156	0.042439	0.003241	0.001848	0.117668	0.000559	0.011344	0.006416	0.001802	0.018018
29-Dec-2028	0.848454	11.736700	18.362400	2.890870	41.211143	1.552050	0.018205	0.177728	0.042575	0.003251	0.001854	0.118038	0.000561	0.011380	0.006437	0.001808	0.018076
30-Dec-2028	0.848518	11.792200	18.449500	2.904510	41.405896	1.559430	0.018291	0.178572	0.042776	0.003267	0.001862	0.118590	0.000564	0.011434	0.006467	0.001816	0.018162
31-Dec-2028	0.848188	11.861000	18.556800	2.921540	41.647819	1.568470	0.018397	0.179610	0.043026	0.003286	0.001873	0.119294	0.000567	0.011501	0.006505	0.001827	0.018268
1-Jan-2029	0.847999	11.899700	18.617500	2.931040	41.783574	1.573620	0.018458	0.180198	0.043166	0.003297	0.001879	0.119678	0.000569	0.011538	0.006526	0.001833	0.018328
2-Jan-2029	0.848028	11.953000	18.701000	2.944100	41.970445	1.580690	0.018540	0.181006	0.043358	0.003311	0.001888	0.120206	0.000572	0.011590	0.006555	0.001841	0.018410
3-Jan-2029	0.847681	12.022700	18.809800	2.961350	42.215521	1.589860	0.018648	0.182058	0.043612	0.003331	0.001899	0.120919	0.000575	0.011657	0.006594	0.001852	0.018517
4-Jan-2029	0.847425	12.065500	18.876800	2.971880	42.365755	1.595530	0.018715	0.182707	0.043767	0.003343	0.001906	0.121347	0.000577	0.011699	0.006617	0.001858	0.018583
5-Jan-2029	0.847437	12.109400	18.945700	2.982640	42.519683	1.601360	0.018783	0.183374	0.043926	0.003355	0.001912	0.121782	0.000579	0.011741	0.006641	0.001865	0.018650
6-Jan-2029	0.847199	12.182700	19.060300	3.000730	42.777208	1.611050	0.018897	0.184483	0.044192	0.003375	0.001924	0.122524	0.000583	0.011812	0.006681	0.001876	0.018763
7-Jan-2029	0.847035	12.227000	19.129500	3.011630	42.932711	1.616900	0.018965	0.185153	0.044352	0.003387	0.001931	0.122969	0.000585	0.011855	0.006706	0.001883	0.018831
8-Jan-2029	0.847048	12.257600	19.177700	3.019140	43.040046	1.620980	0.019013	0.185619	0.044463	0.003396	0.001936	0.123272	0.000586	0.011885	0.006722	0.001888	0.018879
9-Jan-2029	0.846958	12.316900	19.270300	3.033740	43.248241	1.628810	0.019105	0.186516	0.044678	0.003412	0.001945	0.123869	0.000589	0.011942	0.006755	0.001897	0.018970
10-Jan-2029	0.846729	12.373800	19.359200	3.047810	43.448260	1.636310	0.019193	0.187376	0.044885	0.003428	0.001954	0.124448	0.000592	0.011998	0.006786	0.001906	0.019058
11-Jan-2029	0.846646	12.398100	19.397400	3.053750	43.533398	1.639550	0.019231	0.187746	0.044972	0.003435	0.001958	0.124687	0.000593	0.012021	0.006800	0.001910	0.019095
12-Jan-2029	0.846648	12.449600	19.477900	3.066410	43.714128	1.646360	0.019311	0.188526	0.045159	0.003449	0.001966	0.125203	0.000595	0.012071	0.006828	0.001917	0.019174
13-Jan-2029	0.846303	12.523400	19.593200	3.084680	43.973642	1.656070	0.019425	0.189640	0.045427	0.003469	0.001978	0.125957	0.000599	0.012143	0.006868	0.001929	0.019288
14-Jan-2029	0.846090	12.543600	19.624900	3.089630	44.044466	1.658770	0.019456	0.189948	0.045500	0.003475	0.001981	0.126156	0.000600	0.012162	0.006879	0.001932	0.019319
15-Jan-2029	0.846127	12.575100	19.674300	3.097360	44.154953	1.662960	0.019505	0.190426	0.045614	0.003484	0.001986	0.126469	0.000601	0.012193	0.006897	0.001937	0.019368
16-Jan-2029	0.845826	12.644700	19.782900	3.114580	44.399656	1.672110	0.019613	0.191476	0.045867	0.003503	0.001997	0.127180	0.000605	0.012260	0.006935	0.001947	0.019475
17-Jan-2029	0.845554	12.672100	19.825700	3.121350	44.495953	1.675720	0.019655	0.191891	0.045967	0.003511	0.002001	0.127458	0.000606	0.012287	0.006950	0.001952	0.019517
18-Jan-2029	0.845582	12.718800	19.898900	3.132790	44.659673	1.681920	0.019728	0.192599	0.046135	0.003524	0.002009	0.127922	0.000608	0.012332	0.006975	0.001959	0.019589
19-Jan-2029	0.845539	12.778200	19.991900	3.147430	44.868282	1.689780	0.019820	0.193499	0.046351	0.003540	0.002018	0.128519	0.000611	0.012390	0.007008	0.001968	0.019680
20-Jan-2029	0.845311	12.842000	20.091300	3.163240	45.092696	1.698160	0.019919	0.194461	0.046584	0.003558	0.002028	0.129174	0.000614	0.012452	0.007043	0.001978	0.019779
21-Jan-2029	0.845218	12.932300	20.233200	3.185260	45.408854	1.710210	0.020059	0.195836	0.046909	0.003583	0.002042	0.130053	0.000618	0.012539	0.007092	0.001992	0.019918
22-Jan-2029	0.845212	13.018700	20.368500	3.206520	45.712143	1.721650	0.020194	0.197145	0.047222	0.003607	0.002056	0.130919	0.000623	0.012623	0.007140	0.002005	0.020051
23-Jan-2029	0.844921	13.115900	20.520500	3.230510	46.053642	1.734490	0.020344	0.198616	0.047575	0.003634	0.002071	0.131902	0.000627	0.012717	0.007193	0.002020	0.020201
24-Jan-2029	0.844726	13.208400	20.665200	3.253320	46.378547	1.746710	0.020488	0.200016	0.047911	0.003659	0.002086	0.132836	0.000632	0.012807	0.007244	0.002034	0.020343
25-Jan-2029	0.844647	13.269000	20.759700	3.268290	46.591511	1.754690	0.020581	0.200932	0.048131	0.003676	0.002096	0.133452	0.000634	0.012866	0.007277	0.002044	0.020436
26-Jan-2029	0.844605	13.323600	20.845300	3.281730	46.783193	1.761930	0.020666	0.201760	0.048329	0.003691	0.002104	0.133999	0.000637	0.012919	0.007307	0.002052	0.020520
27-Jan-2029	0.844624	13.364900	20.910200	3.291840	46.927952	1.767430	0.020731	0.202388	0.048478	0.003703	0.002111	0.134407	0.000639	0.012958	0.007330	0.002058	0.020584
28-Jan-2029	0.844639	13.414900	20.988400	3.304120	47.103371	1.774040	0.020808	0.203145	0.048659	0.003716	0.002119	0.134906	0.000641	0.013007	0.007357	0.002066	0.020661
29-Jan-2029	0.844660	13.466000	21.068300	3.316710	47.282814	1.780800	0.020887	0.203919	0.048844	0.003731	0.002127	0.135421	0.000644	0.013056	0.007385	0.002074	0.020740
30-Jan-2029	0.844658	13.523700	21.158500	3.330910	47.485366	1.788430	0.020977	0.204792	0.049053	0.003747	0.002136	0.136000	0.000647	0.013112	0.007417	0.002083	0.020829
31-Jan-2029	0.844642	13.582500	21.250500	3.345420	47.691942	1.796200	0.021068	0.205682	0.049266	0.003763	0.002145	0.136594	0.000650	0.013169	0.007449	0.002092	0.020919
1-Feb-2029	0.844623	13.640600	21.341500	3.359750	47.896029	1.803890	0.021158	0.206563	0.049477	0.003779	0.002154	0.137180	0.000652	0.013226	0.007481	0.002101	0.021009
2-Feb-2029	0.844613	13.697000	21.429700	3.373630	48.094017	1.811340	0.021246	0.207416	0.049682	0.003795	0.002163	0.137747	0.000655	0.013280	0.007512	0.002110	0.021096
3-Feb-2029	0.844611	13.750800	21.513900	3.386880	48.282919	1.818460	0.021329	0.208231	0.049877	0.003809	0.002172	0.138288	0.000658	0.013333	0.007541	0.002118	0.021178
4-Feb-2029	0.844611	13.805900	21.600100	3.400440	48.476344	1.825750	0.021415	0.209065	0.050076	0.003825	0.002180	0.138841	0.000660	0.013386	0.007572	0.002126	0.021263
5-Feb-2029	0.844608	13.864200	21.691300	3.414780	48.680971	1.833460	0.021505	0.209948	0.050288	0.003841	0.002189	0.139426	0.000663	0.013442	0.007604	0.002135	0.021353
6-Feb-2029	0.844599	13.763300	21.533500	3.389940	48.326733	1.820120	0.021349	0.208421	0.049922	0.003813	0.002174	0.138411	0.000658	0.013345	0.007548	0.002120	0.021198
7-Feb-2029	0.844596	13.804900	21.598600	3.400180	48.472777	1.825630	0.021413	0.209051	0.050073	0.003824	0.002180	0.138829	0.000660	0.013385	0.007571	0.002126	0.021262
8-Feb-2029	0.844607	13.853700	21.675000	3.412190	48.644087	1.832090	0.021489	0.209790	0.050249	0.003838	0.002188	0.139319	0.000662	0.013432	0.007598	0.002134	0.021337

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
9-Feb-2029	0.844623	13.904100	21.753900	3.424590	48.820999	1.838760	0.021567	0.210554	0.050432	0.003852	0.002196	0.139824	0.000665	0.013481	0.007625	0.002141	0.021415
10-Feb-2029	0.844621	13.962800	21.845700	3.439030	49.027037	1.846520	0.021658	0.211442	0.050644	0.003868	0.002205	0.140413	0.000668	0.013538	0.007658	0.002150	0.021505
11-Feb-2029	0.844616	14.035800	21.960000	3.457010	49.283360	1.856180	0.021771	0.212549	0.050909	0.003888	0.002217	0.141147	0.000671	0.013609	0.007698	0.002162	0.021617
12-Feb-2029	0.844610	14.118900	22.089900	3.477460	49.575074	1.867170	0.021900	0.213807	0.051210	0.003911	0.002230	0.141982	0.000675	0.013689	0.007743	0.002175	0.021745
13-Feb-2029	0.844606	14.210300	22.232900	3.499970	49.895996	1.879260	0.022042	0.215191	0.051542	0.003937	0.002244	0.142900	0.000680	0.013778	0.007793	0.002189	0.021886
14-Feb-2029	0.844596	14.198600	22.214800	3.497110	49.855003	1.877720	0.022024	0.215015	0.051500	0.003934	0.002242	0.142784	0.000679	0.013767	0.007787	0.002187	0.021868
15-Feb-2029	0.844593	14.254900	22.302800	3.510960	50.052619	1.885170	0.022111	0.215867	0.051704	0.003949	0.002251	0.143349	0.000682	0.013821	0.007818	0.002195	0.021955
16-Feb-2029	0.844588	14.313900	22.395200	3.525490	50.259776	1.892980	0.022203	0.216761	0.051918	0.003965	0.002260	0.143942	0.000684	0.013878	0.007850	0.002205	0.022046
17-Feb-2029	0.844581	14.389700	22.513800	3.544160	50.525932	1.903010	0.022320	0.217910	0.052192	0.003986	0.002272	0.144703	0.000688	0.013952	0.007892	0.002216	0.022162
18-Feb-2029	0.844577	14.464000	22.630000	3.562440	50.786736	1.912830	0.022436	0.219034	0.052462	0.004007	0.002284	0.145449	0.000692	0.014024	0.007933	0.002228	0.022277
19-Feb-2029	0.844572	14.533300	22.738600	3.579510	51.030072	1.922010	0.022543	0.220085	0.052713	0.004026	0.002295	0.146145	0.000695	0.014091	0.007971	0.002238	0.022384
20-Feb-2029	0.844569	14.602100	22.846100	3.596420	51.271501	1.931100	0.022650	0.221126	0.052962	0.004045	0.002306	0.146835	0.000698	0.014158	0.008008	0.002249	0.022489
21-Feb-2029	0.844566	14.710200	23.015400	3.623060	51.651130	1.945410	0.022818	0.222764	0.053354	0.004075	0.002323	0.147921	0.000703	0.014262	0.008068	0.002266	0.022656
22-Feb-2029	0.844560	14.818900	23.185500	3.649820	52.032752	1.959790	0.022986	0.224411	0.053748	0.004105	0.002340	0.149013	0.000709	0.014368	0.008127	0.002282	0.022824
23-Feb-2029	0.844556	14.921500	23.346000	3.675080	52.392965	1.973360	0.023145	0.225964	0.054120	0.004134	0.002356	0.150044	0.000714	0.014467	0.008184	0.002298	0.022982
24-Feb-2029	0.844554	15.020800	23.501300	3.699520	52.741561	1.986490	0.023299	0.227468	0.054480	0.004161	0.002372	0.151042	0.000718	0.014563	0.008238	0.002313	0.023134
25-Feb-2029	0.844552	14.888000	23.293500	3.666820	52.275301	1.968930	0.023093	0.225456	0.053999	0.004124	0.002351	0.149707	0.000712	0.014435	0.008165	0.002293	0.022930
26-Feb-2029	0.844549	14.963300	23.411400	3.685360	52.539673	1.978890	0.023210	0.226597	0.054272	0.004145	0.002363	0.150463	0.000716	0.014508	0.008206	0.002305	0.023046
27-Feb-2029	0.844546	15.048000	23.543900	3.706210	52.837029	1.990090	0.023342	0.227880	0.054579	0.004169	0.002376	0.151314	0.000720	0.014590	0.008253	0.002318	0.023176
28-Feb-2029	0.844544	15.142800	23.692200	3.729560	53.169900	2.002630	0.023489	0.229315	0.054923	0.004195	0.002391	0.152268	0.000724	0.014682	0.008305	0.002332	0.023322
1-Mar-2029	0.844541	15.240500	23.845100	3.753640	53.513018	2.015550	0.023640	0.230795	0.055277	0.004222	0.002407	0.153250	0.000729	0.014777	0.008358	0.002347	0.023473
2-Mar-2029	0.844538	15.335000	23.993000	3.776910	53.844810	2.028050	0.023787	0.232227	0.055620	0.004248	0.002422	0.154201	0.000733	0.014868	0.008410	0.002362	0.023618
3-Mar-2029	0.844535	15.428000	24.138500	3.799810	54.171334	2.040350	0.023931	0.233635	0.055957	0.004274	0.002436	0.155135	0.000738	0.014958	0.008461	0.002376	0.023762
4-Mar-2029	0.844534	15.521200	24.284400	3.822770	54.498603	2.052680	0.024076	0.235047	0.056295	0.004300	0.002451	0.156072	0.000742	0.015049	0.008512	0.002391	0.023905
5-Mar-2029	0.844532	15.617900	24.435500	3.846560	54.838030	2.065460	0.024226	0.236510	0.056646	0.004327	0.002466	0.157044	0.000747	0.015142	0.008565	0.002405	0.024054
6-Mar-2029	0.844530	15.712600	24.583700	3.869890	55.170569	2.077990	0.024373	0.237944	0.056989	0.004353	0.002481	0.157996	0.000751	0.015234	0.008617	0.002420	0.024200
7-Mar-2029	0.844529	15.804300	24.727300	3.892480	55.492570	2.090120	0.024515	0.239334	0.057322	0.004378	0.002496	0.158918	0.000756	0.015323	0.008668	0.002434	0.024341
8-Mar-2029	0.844527	15.901600	24.879500	3.916440	55.834195	2.102990	0.024666	0.240807	0.057675	0.004405	0.002511	0.159896	0.000760	0.015417	0.008721	0.002449	0.024491
9-Mar-2029	0.844525	16.002200	25.036900	3.941220	56.187437	2.116290	0.024822	0.242330	0.058040	0.004433	0.002527	0.160908	0.000765	0.015515	0.008776	0.002465	0.024646
10-Mar-2029	0.844524	16.108000	25.202400	3.967270	56.558894	2.130290	0.024986	0.243933	0.058423	0.004462	0.002544	0.161971	0.000770	0.015618	0.008834	0.002481	0.024809
11-Mar-2029	0.844523	16.223300	25.382800	3.995660	56.963708	2.145530	0.025165	0.245678	0.058841	0.004494	0.002562	0.163131	0.000776	0.015729	0.008897	0.002499	0.024986
12-Mar-2029	0.844522	16.355800	25.590100	4.028290	57.428931	2.163060	0.025370	0.247685	0.059322	0.004531	0.002583	0.164462	0.000782	0.015858	0.008970	0.002519	0.025190
13-Mar-2029	0.844522	16.519500	25.846300	4.068630	58.003810	2.184700	0.025624	0.250164	0.059916	0.004576	0.002609	0.166110	0.000790	0.016017	0.009060	0.002544	0.025443
14-Mar-2029	0.844523	16.695300	26.121300	4.111930	58.621092	2.207960	0.025897	0.252826	0.060554	0.004625	0.002636	0.167878	0.000798	0.016187	0.009156	0.002571	0.025713
15-Mar-2029	0.844524	16.878100	26.407300	4.156950	59.262936	2.232130	0.026180	0.255595	0.061217	0.004676	0.002665	0.169716	0.000807	0.016364	0.009257	0.002600	0.025995
16-Mar-2029	0.844524	17.067000	26.702900	4.203480	59.926230	2.257120	0.026474	0.258456	0.061902	0.004728	0.002695	0.171615	0.000816	0.016547	0.009360	0.002629	0.026286
17-Mar-2029	0.844524	17.261400	27.007000	4.251340	60.608734	2.282820	0.026775	0.261398	0.062607	0.004782	0.002726	0.173569	0.000825	0.016736	0.009467	0.002659	0.026585
18-Mar-2029	0.844524	17.459800	27.317500	4.300220	61.305427	2.309060	0.027083	0.264404	0.063326	0.004837	0.002757	0.175565	0.000835	0.016928	0.009576	0.002689	0.026891
19-Mar-2029	0.844524	17.658900	27.629000	4.349260	62.004526	2.335390	0.027392	0.267419	0.064049	0.004892	0.002789	0.177567	0.000844	0.017121	0.009685	0.002720	0.027198
20-Mar-2029	0.844524	17.859200	27.942300	4.398590	62.707816	2.361880	0.027702	0.270452	0.064775	0.004948	0.002820	0.179581	0.000854	0.017315	0.009795	0.002751	0.027506
21-Mar-2029	0.844525	18.060900	28.257900	4.448250	63.415961	2.388550	0.028015	0.273506	0.065506	0.005003	0.002852	0.181608	0.000864	0.017511	0.009905	0.002782	0.027817
22-Mar-2029	0.844525	18.264100	28.575900	4.498320	64.129539	2.415430	0.028330	0.276584	0.066244	0.005060	0.002884	0.183652	0.000873	0.017708	0.010017	0.002813	0.028130
23-Mar-2029	0.844525	18.469900	28.897800	4.548990	64.852081	2.442640	0.028650	0.279700	0.066990	0.005117	0.002917	0.185721	0.000883	0.017907	0.010130	0.002845	0.028447
24-Mar-2029	0.844525	18.677800	29.223100	4.600210	65.582131	2.470140	0.028972	0.282849	0.067744	0.005174	0.002949	0.187812	0.000893	0.018109	0.010244	0.002877	0.028767
25-Mar-2029	0.844525	18.887700	29.551500	4.651900	66.319111	2.497900	0.029298	0.286027	0.068505	0.005232	0.002983	0.189923	0.000903	0.018313	0.010359	0.002909	0.029090
26-Mar-2029	0.844525	19.099100	29.882300	4.703970	67.061401	2.525860	0.029626	0.289229	0.069272	0.005291	0.003016	0.192049	0.000913	0.018518	0.010475	0.002942	0.029416
27-Mar-2029	0.844526	19.311800	30.215000	4.756340	67.808173	2.553980	0.029955	0.292449	0.070043	0.005350	0.003050	0.194187	0.000924	0.018724	0.010591	0.002974	0.029743
28-Mar-2029	0.844526	19.525600	30.549500	4.809000	68.558885	2.582250	0.030287	0.295686	0.070819	0.005409	0.003083	0.196337	0.000934	0.018931	0.010709	0.003007	0.030072
29-Mar-2029	0.844526	19.740500	30.885800	4.861940	69.313497	2.610680	0.030620	0.298942	0.071599	0.005469	0.003117	0.198498	0.000944	0.019139	0.010826	0.003040	0.030404
30-Mar-2029	0.844526	19.956800	31.224300	4.915220	70.073006	2.639290	0.030956	0.302218	0.072383	0.005529	0.003151	0.200673	0.000954	0.019349	0.010945	0.003074	0.030737
31-Mar-2029	0.844527	20.173400	31.563200	4.968570	70.833551	2.667940	0.031292	0.305498	0.073169	0.005589	0.003186	0.202851	0.000965	0.019559	0.011064	0.003107	0.031070
1-Apr-2029	0.844527	20.338900	31.822000	5.009320	71.414613	2.689820	0.031549	0.308003	0.073769	0.005634	0.003212	0.204515	0.000973	0.019720	0.011155	0.003133	0.031325

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Apr-2029	0.844527	20.204000	31.611000	4.976100	70.940968	2.671980	0.031339	0.305961	0.073280	0.005597	0.003190	0.203159	0.000966	0.019589	0.011081	0.003112	0.031117
3-Apr-2029	0.844527	20.043800	31.360400	4.936650	70.378493	2.650800	0.031091	0.303535	0.072699	0.005553	0.003165	0.201548	0.000959	0.019434	0.010993	0.003087	0.030871
4-Apr-2029	0.844527	19.902000	31.138400	4.901710	69.880536	2.632040	0.030871	0.301387	0.072184	0.005513	0.003143	0.200122	0.000952	0.019296	0.010915	0.003065	0.030652
5-Apr-2029	0.844527	19.774700	30.939300	4.870360	69.433568	2.615210	0.030674	0.299459	0.071723	0.005478	0.003123	0.198842	0.000946	0.019173	0.010845	0.003046	0.030456
6-Apr-2029	0.844527	19.660200	30.760100	4.842150	69.031493	2.600060	0.030496	0.297725	0.071307	0.005446	0.003105	0.197690	0.000940	0.019062	0.010782	0.003028	0.030280
7-Apr-2029	0.844527	19.556700	30.598200	4.816660	68.668086	2.586370	0.030335	0.296158	0.070932	0.005418	0.003088	0.196650	0.000935	0.018961	0.010726	0.003012	0.030120
8-Apr-2029	0.844527	19.462500	30.450900	4.793480	68.337413	2.573920	0.030189	0.294732	0.070590	0.005392	0.003073	0.195703	0.000931	0.018870	0.010674	0.002998	0.029975
9-Apr-2029	0.844527	19.376100	30.315700	4.772200	68.034041	2.562490	0.030055	0.293424	0.070277	0.005368	0.003060	0.194834	0.000927	0.018786	0.010627	0.002984	0.029842
10-Apr-2029	0.844527	19.296000	30.190400	4.752470	67.752783	2.551900	0.029931	0.292211	0.069986	0.005346	0.003047	0.194029	0.000923	0.018709	0.010583	0.002972	0.029719
11-Apr-2029	0.844527	19.221200	30.073300	4.734040	67.490113	2.542010	0.029815	0.291078	0.069715	0.005325	0.003035	0.193277	0.000919	0.018636	0.010542	0.002960	0.029604
12-Apr-2029	0.844527	19.152100	29.965200	4.717030	67.247523	2.532870	0.029708	0.290031	0.069464	0.005306	0.003024	0.192582	0.000916	0.018569	0.010504	0.002950	0.029497
13-Apr-2029	0.844527	19.090100	29.868200	4.701750	67.029786	2.524670	0.029612	0.289092	0.069240	0.005289	0.003015	0.191958	0.000913	0.018509	0.010470	0.002940	0.029402
14-Apr-2029	0.844527	19.051300	29.807600	4.692180	66.893493	2.519550	0.029552	0.288505	0.069099	0.005278	0.003008	0.191566	0.000911	0.018471	0.010449	0.002934	0.029342
15-Apr-2029	0.844527	19.017600	29.754800	4.683880	66.775165	2.515090	0.029499	0.287995	0.068976	0.005268	0.003003	0.191227	0.000909	0.018439	0.010430	0.002929	0.029290
16-Apr-2029	0.844527	18.985400	29.704500	4.675950	66.662106	2.510830	0.029449	0.287507	0.068860	0.005260	0.002998	0.190904	0.000908	0.018407	0.010412	0.002924	0.029241
17-Apr-2029	0.844527	18.955100	29.657100	4.668500	66.555768	2.506830	0.029402	0.287049	0.068750	0.005251	0.002993	0.190599	0.000906	0.018378	0.010396	0.002919	0.029194
18-Apr-2029	0.844527	18.926700	29.612600	4.661500	66.456027	2.503070	0.029358	0.286619	0.068647	0.005243	0.002989	0.190314	0.000905	0.018350	0.010380	0.002915	0.029150
19-Apr-2029	0.844527	18.900400	29.571500	4.655020	66.363671	2.499590	0.029317	0.286220	0.068551	0.005236	0.002985	0.190049	0.000904	0.018325	0.010366	0.002911	0.029110
20-Apr-2029	0.844527	18.878600	29.537300	4.649630	66.287041	2.496700	0.029284	0.285889	0.068472	0.005230	0.002981	0.189829	0.000903	0.018304	0.010354	0.002908	0.029076
21-Apr-2029	0.844527	18.877200	29.535200	4.649310	66.282227	2.496530	0.029282	0.285869	0.068467	0.005230	0.002981	0.189815	0.000903	0.018302	0.010353	0.002907	0.029074
22-Apr-2029	0.844527	18.876500	29.534100	4.649120	66.279697	2.496430	0.029280	0.285858	0.068464	0.005229	0.002981	0.189808	0.000903	0.018302	0.010353	0.002907	0.029073
23-Apr-2029	0.844527	18.876100	29.533400	4.649020	66.278286	2.496370	0.029280	0.285852	0.068463	0.005229	0.002981	0.189804	0.000903	0.018301	0.010352	0.002907	0.029072
24-Apr-2029	0.844527	18.875900	29.533100	4.648970	66.277581	2.496350	0.029279	0.285849	0.068462	0.005229	0.002981	0.189802	0.000903	0.018301	0.010352	0.002907	0.029072
25-Apr-2029	0.844527	18.876000	29.533200	4.648990	66.277913	2.496360	0.029280	0.285850	0.068463	0.005229	0.002981	0.189803	0.000903	0.018301	0.010352	0.002907	0.029072
26-Apr-2029	0.844527	18.876100	29.533400	4.649020	66.278286	2.496370	0.029280	0.285852	0.068463	0.005229	0.002981	0.189804	0.000903	0.018301	0.010352	0.002907	0.029072
27-Apr-2029	0.844529	18.590600	29.086700	4.578730	65.275938	2.458610	0.028837	0.281528	0.067428	0.005150	0.002936	0.186936	0.000889	0.018025	0.010196	0.002863	0.028633
28-Apr-2029	0.844529	18.570800	29.055700	4.573860	65.206443	2.455990	0.028806	0.281228	0.067356	0.005145	0.002933	0.186737	0.000888	0.018005	0.010185	0.002860	0.028602
29-Apr-2029	0.844529	18.552400	29.026900	4.569320	65.141803	2.453560	0.028778	0.280950	0.067289	0.005140	0.002930	0.186552	0.000887	0.017988	0.010175	0.002857	0.028574
30-Apr-2029	0.844513	18.531000	28.993400	4.564050	65.066665	2.450720	0.028744	0.280625	0.067212	0.005134	0.002926	0.186336	0.000886	0.017967	0.010163	0.002854	0.028541
1-May-2029	0.843781	18.807400	29.425900	4.632090	66.037024	2.487280	0.029173	0.284811	0.068214	0.005210	0.002970	0.189113	0.000899	0.018235	0.010315	0.002897	0.028966
2-May-2029	0.839607	18.300900	28.633400	4.507350	64.258615	2.420300	0.028387	0.277141	0.066377	0.005070	0.002890	0.184020	0.000875	0.017744	0.010037	0.002819	0.028186
3-May-2029	0.834905	18.434300	28.842200	4.540230	64.727114	2.437940	0.028594	0.279161	0.066861	0.005107	0.002911	0.185363	0.000882	0.017873	0.010110	0.002839	0.028392
4-May-2029	0.830892	18.227700	28.519000	4.489350	64.001710	2.410620	0.028274	0.276033	0.066112	0.005050	0.002878	0.183286	0.000872	0.017673	0.009997	0.002807	0.028074
5-May-2029	0.826858	17.968400	28.113300	4.425490	63.091263	2.376330	0.027872	0.272106	0.065171	0.004978	0.002837	0.180679	0.000859	0.017421	0.009855	0.002767	0.027674
6-May-2029	0.823174	17.684900	27.669700	4.355650	62.095762	2.338830	0.027432	0.267813	0.064143	0.004899	0.002793	0.177827	0.000846	0.017146	0.009699	0.002724	0.027238
7-May-2029	0.819892	17.393800	27.214200	4.283950	61.073625	2.300330	0.026980	0.263404	0.063087	0.004819	0.002747	0.174900	0.000832	0.016864	0.009539	0.002679	0.026789
8-May-2029	0.816911	17.129900	26.801300	4.218950	60.146996	2.265430	0.026571	0.259407	0.062130	0.004745	0.002705	0.172246	0.000819	0.016608	0.009395	0.002638	0.026383
9-May-2029	0.813996	16.970600	26.552000	4.179710	59.587634	2.244370	0.026324	0.256995	0.061552	0.004701	0.002680	0.170644	0.000812	0.016454	0.009307	0.002614	0.026137
10-May-2029	0.811127	16.906100	26.451100	4.163820	59.361142	2.235830	0.026224	0.256018	0.061318	0.004683	0.002670	0.169995	0.000808	0.016391	0.009272	0.002604	0.026038
11-May-2029	0.807989	16.796300	26.279400	4.136790	58.975662	2.221320	0.026054	0.254356	0.060920	0.004653	0.002652	0.168891	0.000803	0.016285	0.009212	0.002587	0.025869
12-May-2029	0.803862	16.614900	25.995600	4.092120	58.338755	2.197330	0.025772	0.251610	0.060262	0.004603	0.002624	0.167068	0.000795	0.016109	0.009112	0.002559	0.025590
13-May-2029	0.800990	16.446900	25.732800	4.050740	57.748857	2.175120	0.025512	0.249066	0.059653	0.004556	0.002597	0.165378	0.000787	0.015946	0.009020	0.002533	0.025331
14-May-2029	0.792662	16.042200	25.099500	3.951060	56.327838	2.121590	0.024884	0.242937	0.058185	0.004444	0.002533	0.161308	0.000767	0.015554	0.008798	0.002471	0.024708
15-May-2029	0.784494	15.713900	24.585900	3.870190	55.175051	2.078170	0.024375	0.237965	0.056994	0.004353	0.002481	0.158007	0.000751	0.015235	0.008618	0.002420	0.024202
16-May-2029	0.771716	15.538200	24.311100	3.826930	54.558183	2.054940	0.024102	0.235305	0.056357	0.004305	0.002454	0.156240	0.000743	0.015065	0.008522	0.002393	0.023931
17-May-2029	0.770221	15.409700	24.110000	3.795270	54.106943	2.037950	0.023903	0.233359	0.055890	0.004269	0.002433	0.154948	0.000737	0.014940	0.008451	0.002373	0.023733
18-May-2029	0.766700	15.319300	23.968500	3.773010	53.789547	2.025990	0.023763	0.231990	0.055563	0.004244	0.002419	0.154039	0.000733	0.014853	0.008402	0.002359	0.023594
19-May-2029	0.760675	14.964900	23.414000	3.685720	52.545150	1.979120	0.023213	0.226622	0.054278	0.004146	0.002363	0.150475	0.000716	0.014509	0.008207	0.002305	0.023048
20-May-2029	0.762503	14.498700	22.684400	3.570910	50.908261	1.917440	0.022489	0.219560	0.052587	0.004016	0.002289	0.145788	0.000693	0.014057	0.007952	0.002233	0.022330
21-May-2029	0.767580	14.158900	22.152600	3.487290	49.715434	1.872450	0.021962	0.214409	0.051359	0.003922	0.002236	0.142376	0.000677	0.013728	0.007765	0.002181	0.021807
22-May-2029	0.770690	13.917700	21.775200	3.427880	48.868507	1.840560	0.021588	0.210757	0.050484	0.003855	0.002198	0.139950	0.000666	0.013494	0.007633	0.002144	0.021435
23-May-2029	0.773262	13.617000	21.304600	3.353870	47.812886	1.800750	0.021121	0.206199	0.049395	0.003772	0.002150	0.136930	0.000651	0.013203	0.007468	0.002097	0.020972

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24-May-2029	0.775193	13.217900	20.680000	3.255610	46.411698	1.747950	0.020502	0.200154	0.047949	0.003662	0.002088	0.132920	0.000632	0.012816	0.007249	0.002036	0.020357
25-May-2029	0.776689	12.904900	20.190200	3.178540	45.312763	1.706540	0.020016	0.195412	0.046815	0.003575	0.002038	0.129774	0.000617	0.012513	0.007077	0.001987	0.019875
26-May-2029	0.780723	12.545000	19.627000	3.089950	44.049279	1.658910	0.019458	0.189959	0.045512	0.003475	0.001981	0.126159	0.000600	0.012164	0.006880	0.001932	0.019321
27-May-2029	0.790715	12.439100	19.461400	3.063900	43.677573	1.644900	0.019293	0.188355	0.045128	0.003446	0.001965	0.125096	0.000595	0.012061	0.006822	0.001916	0.019157
28-May-2029	0.803354	12.309200	19.258000	3.031930	43.221560	1.627700	0.019092	0.186386	0.044658	0.003410	0.001944	0.123791	0.000589	0.011936	0.006751	0.001896	0.018957
29-May-2029	0.814673	12.273600	19.202300	3.023160	43.096552	1.623000	0.019037	0.185847	0.044528	0.003400	0.001939	0.123434	0.000587	0.011901	0.006731	0.001890	0.018903
30-May-2029	0.821136	12.178300	19.053100	2.999720	42.762062	1.610370	0.018888	0.184402	0.044184	0.003373	0.001924	0.122480	0.000582	0.011809	0.006679	0.001876	0.018756
31-May-2029	0.822108	12.097700	18.926800	2.979930	42.479309	1.599680	0.018763	0.183179	0.043893	0.003351	0.001911	0.121676	0.000578	0.011731	0.006635	0.001863	0.018632
1-Jun-2029	0.820104	11.959100	18.709700	2.945870	41.992965	1.581300	0.018548	0.181076	0.043393	0.003313	0.001889	0.120290	0.000572	0.011597	0.006559	0.001842	0.018418
2-Jun-2029	0.809877	11.699700	18.290400	2.885870	41.098164	1.544210	0.018126	0.176941	0.042660	0.003237	0.001856	0.117976	0.000559	0.011363	0.006414	0.001802	0.018024
3-Jun-2029	0.814249	11.566600	18.073400	2.855580	40.641079	1.525010	0.017907	0.174798	0.044547	0.003198	0.001854	0.116893	0.000552	0.011245	0.006340	0.001782	0.017823
4-Jun-2029	0.827420	11.368100	17.724700	2.819820	39.998164	1.492390	0.017546	0.171260	0.042948	0.003133	0.001852	0.116386	0.000541	0.011119	0.006226	0.001754	0.017537
5-Jun-2029	0.831380	11.105500	17.268700	2.774040	39.153930	1.449300	0.017076	0.166631	0.042409	0.003048	0.001827	0.114631	0.000526	0.010940	0.006075	0.001717	0.017168
6-Jun-2029	0.828401	10.939100	16.992900	2.729660	38.555673	1.423650	0.016793	0.163854	0.041986	0.002997	0.001805	0.112910	0.000517	0.010764	0.005982	0.001691	0.016906
7-Jun-2029	0.816196	10.730400	16.647100	2.683880	37.846027	1.391870	0.016440	0.160391	0.041789	0.002934	0.001787	0.111333	0.000506	0.010586	0.005865	0.001659	0.016594
8-Jun-2029	0.829285	10.542600	16.333300	2.643360	37.210229	1.362820	0.016119	0.157233	0.041572	0.002876	0.001779	0.110182	0.000496	0.010430	0.005759	0.001631	0.016314
9-Jun-2029	0.871155	10.343300	15.995400	2.601840	36.541597	1.331100	0.015771	0.153796	0.041193	0.002813	0.001759	0.108619	0.000485	0.010270	0.005646	0.001602	0.016019
10-Jun-2029	0.961160	10.140500	15.652700	2.560530	35.865091	1.299070	0.015418	0.150316	0.040565	0.002750	0.001731	0.106789	0.000474	0.010113	0.005531	0.001572	0.015717
11-Jun-2029	1.074074	9.941450	15.316400	2.521280	35.206432	1.267530	0.015071	0.146887	0.040449	0.002687	0.001723	0.105927	0.000463	0.009963	0.005418	0.001543	0.015430
12-Jun-2029	1.169060	9.790970	15.058300	2.488020	34.693718	1.242870	0.014803	0.144228	0.040068	0.002639	0.001703	0.104397	0.000455	0.009836	0.005332	0.001520	0.015198
13-Jun-2029	1.325093	9.585530	14.701800	2.447890	34.015479	1.208470	0.014432	0.140527	0.039726	0.002572	0.001686	0.103080	0.000443	0.009682	0.005214	0.001490	0.014897
14-Jun-2029	1.444306	9.441280	14.452500	2.417080	33.528412	1.184490	0.014173	0.137938	0.039436	0.002526	0.001672	0.101966	0.000435	0.009563	0.005132	0.001468	0.014684
15-Jun-2029	1.537305	9.305580	14.219100	2.389380	33.075500	1.162260	0.013932	0.135517	0.039060	0.002484	0.001658	0.101049	0.000427	0.009459	0.005055	0.001448	0.014482
16-Jun-2029	1.594728	9.134030	13.922500	2.354670	32.504204	1.133940	0.013626	0.132447	0.038820	0.002430	0.001643	0.099982	0.000418	0.009328	0.004957	0.001423	0.014227
17-Jun-2029	1.619102	8.944050	13.593500	2.316490	31.872599	1.102430	0.013286	0.129060	0.038547	0.002371	0.001629	0.098816	0.000407	0.009185	0.004848	0.001394	0.013944
18-Jun-2029	1.610872	8.863010	13.458300	2.298300	31.595335	1.090160	0.013150	0.127668	0.038354	0.002348	0.001618	0.098231	0.000403	0.009116	0.004803	0.001382	0.013817
19-Jun-2029	1.676645	8.694780	13.165800	2.264490	31.036035	1.062180	0.012850	0.124653	0.038179	0.002297	0.001607	0.097258	0.000393	0.008991	0.004707	0.001357	0.013567
20-Jun-2029	1.791486	8.588090	12.981800	2.242430	30.678787	1.044810	0.012662	0.122754	0.038065	0.002265	0.001598	0.096615	0.000387	0.008909	0.004647	0.001341	0.013406
21-Jun-2029	1.930866	8.447800	12.736700	2.214560	30.213715	1.021230	0.012410	0.120219	0.037897	0.002222	0.001589	0.095833	0.000379	0.008806	0.004566	0.001320	0.013198
22-Jun-2029	2.067582	8.341150	12.551000	2.193370	29.860149	1.003350	0.012218	0.118302	0.037782	0.002188	0.001581	0.095202	0.000373	0.008727	0.004506	0.001304	0.013039
23-Jun-2029	2.149111	8.244990	12.385900	2.173260	29.537225	0.987817	0.012049	0.116595	0.037699	0.002160	0.001573	0.094629	0.000368	0.008652	0.004451	0.001289	0.012892
24-Jun-2029	2.306490	8.115650	12.160700	2.147190	29.106906	0.966273	0.011818	0.114263	0.037591	0.002121	0.001564	0.093982	0.000360	0.008555	0.004377	0.001270	0.012698
25-Jun-2029	2.473564	8.020830	11.994800	2.128250	28.792146	0.950349	0.011647	0.112546	0.037505	0.002092	0.001558	0.093497	0.000355	0.008486	0.004323	0.001256	0.012556
26-Jun-2029	2.609222	7.872560	11.734300	2.099020	28.301547	0.925212	0.011380	0.109855	0.037394	0.002047	0.001548	0.092739	0.000346	0.008379	0.004239	0.001234	0.012335
27-Jun-2029	2.770217	7.792560	11.593800	2.083150	28.036434	0.911689	0.011236	0.108405	0.037353	0.002023	0.001543	0.092315	0.000342	0.008321	0.004193	0.001222	0.012215
28-Jun-2029	2.909662	7.643010	11.329100	2.054250	27.543997	0.885936	0.010964	0.105668	0.037287	0.001977	0.001534	0.091720	0.000333	0.008215	0.004107	0.001199	0.011994
29-Jun-2029	3.102135	7.544110	11.154700	2.034560	27.215961	0.869209	0.010788	0.103876	0.037250	0.001948	0.001528	0.091294	0.000327	0.008145	0.004051	0.001184	0.011844
30-Jun-2029	3.322740	7.432600	10.958200	2.012160	26.845277	0.850442	0.010589	0.101866	0.037091	0.001917	0.001520	0.090746	0.000321	0.008065	0.003987	0.001167	0.011675
1-Jul-2029	5.645063	5.750540	8.064370	1.670440	21.237970	0.574545	0.007586	0.072463	0.033972	0.001392	0.001397	0.080843	0.000227	0.006774	0.003031	0.000918	0.009177
2-Jul-2029	7.110733	6.044050	8.590700	1.705730	22.116189	0.630822	0.008159	0.078087	0.034133	0.001538	0.001387	0.083825	0.000245	0.007024	0.003220	0.000958	0.009578
3-Jul-2029	7.471433	6.351570	9.164570	1.755770	23.090131	0.688078	0.008717	0.083681	0.034312	0.001612	0.001392	0.082386	0.000264	0.007215	0.003401	0.001004	0.010042
4-Jul-2029	8.362164	6.809050	9.991400	1.824890	24.517095	0.771720	0.009559	0.092077	0.034759	0.001765	0.001400	0.084086	0.000292	0.007567	0.003680	0.001071	0.010710
5-Jul-2029	9.930957	6.554740	9.517800	1.786710	23.724858	0.724755	0.009101	0.087487	0.034249	0.001705	0.001395	0.084277	0.000276	0.007384	0.003526	0.001031	0.010307
6-Jul-2029	10.124243	6.440640	9.307060	1.769550	23.369285	0.704066	0.008899	0.085467	0.033940	0.001680	0.001391	0.084092	0.000269	0.007297	0.003457	0.001012	0.010123
7-Jul-2029	9.876581	6.456350	9.335430	1.772480	23.420579	0.707129	0.008930	0.085779	0.033841	0.001689	0.001391	0.084278	0.000270	0.007304	0.003466	0.001014	0.010140
8-Jul-2029	10.192084	6.729450	9.838850	1.816790	24.284978	0.757389	0.009428	0.090764	0.034122	0.001770	0.001397	0.084923	0.000287	0.007492	0.003629	0.001055	0.010554
9-Jul-2029	10.698892	6.810160	9.985510	1.828500	24.534733	0.772223	0.009576	0.092243	0.034200	0.001795	0.001398	0.085162	0.000292	0.007552	0.003678	0.001067	0.010674
10-Jul-2029	11.871317	6.855880	10.074700	1.837520	24.686040	0.781013	0.009658	0.093072	0.034092	0.001806	0.001398	0.085079	0.000295	0.007567	0.003703	0.001074	0.010741
11-Jul-2029	10.830269	6.725810	9.833180	1.817740	24.279801	0.756869	0.009421	0.090683	0.033893	0.001772	0.001396	0.084952	0.000287	0.007474	0.003624	0.001054	0.010539
12-Jul-2029	11.875404	6.837280	10.038100	1.835310	24.630495	0.777388	0.009624	0.092716	0.034004	0.001805	0.001398	0.085216	0.000294	0.007552	0.003691	0.001071	0.010707
13-Jul-2029	12.320121	7.157930	10.623700	1.885790	25.639034	0.836053	0.010209	0.098568	0.034390	0.001904	0.001405	0.086182	0.000313	0.007785	0.003884	0.001119	0.011191
14-Jul-2029	13.061927	7.021120	10.363900	1.867150	25.220660	0.809997	0.009959	0.096069	0.034258	0.001887	0.001405	0.087168	0.000305	0.007710	0.003800	0.001097	0.010975

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Jul-2029	13.980725	6.918840	10.181000	1.852340	24.904280	0.791504	0.009770	0.094185	0.033917	0.001840	0.001401	0.085982	0.000299	0.007602	0.003737	0.001082	0.010819
16-Jul-2029	12.913371	6.754730	9.879660	1.827050	24.390353	0.761291	0.009470	0.091176	0.033684	0.001792	0.001398	0.085587	0.000289	0.007482	0.003638	0.001057	0.010569
17-Jul-2029	12.518487	6.752020	9.876390	1.827480	24.385357	0.760850	0.009464	0.091107	0.033617	0.001790	0.001398	0.085503	0.000289	0.007473	0.003635	0.001056	0.010564
18-Jul-2029	11.032469	6.792810	9.951840	1.834980	24.518094	0.768298	0.009537	0.091839	0.033604	0.001802	0.001399	0.085608	0.000291	0.007496	0.003658	0.001062	0.010624
19-Jul-2029	11.156446	6.876780	10.104800	1.848730	24.784390	0.783587	0.009690	0.093368	0.033684	0.001829	0.001401	0.085899	0.000296	0.007555	0.003708	0.001075	0.010750
20-Jul-2029	11.900627	7.106170	10.523000	1.884120	25.502913	0.825534	0.010109	0.097560	0.034006	0.001900	0.001406	0.086647	0.000310	0.007727	0.003847	0.001110	0.011096
21-Jul-2029	12.428510	8.162340	12.455900	2.047540	28.813133	1.019320	0.012037	0.116865	0.035374	0.002218	0.001427	0.089452	0.000375	0.008499	0.004485	0.001270	0.012696
22-Jul-2029	13.483054	7.157530	10.619900	1.895700	25.678845	0.834935	0.010200	0.098474	0.033875	0.001915	0.001407	0.086716	0.000313	0.007742	0.003874	0.001117	0.011170
23-Jul-2029	13.480135	8.028780	12.209800	2.027810	28.398385	0.994581	0.011792	0.114405	0.035160	0.002180	0.001425	0.089203	0.000367	0.008399	0.004404	0.001249	0.012490
24-Jul-2029	14.132625	7.819700	11.828000	1.997000	27.749437	0.956169	0.011409	0.110569	0.034813	0.002117	0.001421	0.088647	0.000354	0.008238	0.004275	0.001217	0.012172
25-Jul-2029	14.612265	8.041220	12.233600	2.031570	28.444932	0.996797	0.011813	0.114612	0.035087	0.002184	0.001426	0.089244	0.000367	0.008398	0.004409	0.001251	0.012507
26-Jul-2029	14.959706	8.199780	12.522100	2.056040	28.941623	1.025740	0.012103	0.117503	0.035309	0.002233	0.001429	0.089749	0.000377	0.008517	0.004505	0.001275	0.012746
27-Jul-2029	15.593956	8.071600	12.292100	2.040360	28.556988	1.002360	0.011868	0.115150	0.034983	0.002194	0.001427	0.089413	0.000369	0.008402	0.004422	0.001255	0.012550
28-Jul-2029	16.060925	7.571950	11.377300	1.963680	26.993593	0.910565	0.010954	0.106007	0.034246	0.002044	0.001417	0.088020	0.000339	0.008029	0.004120	0.001179	0.011792
29-Jul-2029	15.668396	8.309970	12.726800	2.076850	29.302463	1.045940	0.012302	0.119496	0.035257	0.002266	0.001432	0.090026	0.000384	0.008575	0.004567	0.001291	0.012909
30-Jul-2029	16.085429	7.833970	11.858900	2.004570	27.816242	0.958724	0.011429	0.110759	0.034511	0.002120	0.001422	0.088583	0.000355	0.008214	0.004277	0.001219	0.012186
31-Jul-2029	15.110823	7.462980	11.181300	1.949390	26.662649	0.890619	0.010751	0.103964	0.033916	0.002009	0.001415	0.087597	0.000332	0.007930	0.004051	0.001162	0.011622
1-Aug-2029	14.921752	7.586500	11.408700	1.971630	27.062663	0.913119	0.010972	0.106156	0.033915	0.002047	0.001418	0.087970	0.000340	0.008003	0.004122	0.001180	0.011803
2-Aug-2029	14.694629	7.636250	11.496400	1.979250	27.218268	0.921898	0.011060	0.107038	0.034001	0.002066	0.001419	0.088297	0.000343	0.008045	0.004152	0.001188	0.011876
3-Aug-2029	14.329608	7.528770	11.303600	1.963960	26.886926	0.902297	0.010858	0.105016	0.033771	0.002030	0.001417	0.087817	0.000336	0.007954	0.004085	0.001171	0.011714
4-Aug-2029	15.001515	7.588250	11.413500	1.974720	27.079757	0.913067	0.010961	0.106038	0.033770	0.002047	0.001418	0.087964	0.000340	0.007989	0.004119	0.001180	0.011802
5-Aug-2029	13.986738	7.795900	11.796100	2.007410	27.732877	0.951253	0.011336	0.109791	0.033995	0.002107	0.001423	0.088390	0.000353	0.008135	0.004244	0.001212	0.012119
6-Aug-2029	13.869858	7.773730	11.757900	2.005450	27.669447	0.947183	0.011290	0.109330	0.033881	0.002099	0.001422	0.088247	0.000351	0.008108	0.004229	0.001208	0.012085
7-Aug-2029	13.036540	7.991170	12.156900	2.040080	28.355001	0.987008	0.011682	0.113248	0.034114	0.002164	0.001427	0.088806	0.000365	0.008261	0.004359	0.001241	0.012414
8-Aug-2029	13.649206	7.929040	12.039000	2.030790	28.161606	0.975193	0.011569	0.112107	0.034032	0.002149	0.001426	0.088854	0.000361	0.008220	0.004321	0.001232	0.012315
9-Aug-2029	13.605321	8.480650	13.048700	2.116440	29.891683	1.076320	0.012571	0.122131	0.034744	0.002316	0.001437	0.090505	0.000395	0.008622	0.004654	0.001315	0.013150
10-Aug-2029	12.699356	7.829640	11.858800	2.019560	27.867159	0.956598	0.011375	0.110146	0.033700	0.002121	0.001425	0.088654	0.000355	0.008125	0.004257	0.001216	0.012158
11-Aug-2029	12.333908	7.860820	11.917400	2.025180	27.968159	0.962315	0.011429	0.110681	0.033674	0.002129	0.001425	0.088650	0.000357	0.008141	0.004274	0.001220	0.012205
12-Aug-2029	13.284252	7.874460	11.941100	2.030520	28.024208	0.964296	0.011441	0.110784	0.033532	0.002137	0.001426	0.088880	0.000358	0.008136	0.004279	0.001221	0.012215
13-Aug-2029	12.178054	8.019370	12.211500	2.052590	28.476933	0.991310	0.011707	0.113451	0.033711	0.002174	0.001429	0.088942	0.000367	0.008237	0.004366	0.001244	0.012443
14-Aug-2029	11.717798	7.953080	12.087500	2.042920	28.271585	0.978850	0.011584	0.112218	0.033603	0.002158	0.001428	0.088937	0.000363	0.008190	0.004326	0.001234	0.012339
15-Aug-2029	11.718875	8.610960	13.288000	2.143090	30.326812	1.099330	0.012785	0.124239	0.034558	0.002358	0.001442	0.090819	0.000403	0.008684	0.004726	0.001333	0.013335
16-Aug-2029	11.593179	8.937670	13.888800	2.194860	31.355795	1.159310	0.013375	0.130135	0.034913	0.002454	0.001448	0.091589	0.000423	0.008913	0.004921	0.001383	0.013830
17-Aug-2029	10.253446	8.138960	12.420200	2.069470	28.845061	1.012290	0.011913	0.115480	0.033917	0.002220	0.001432	0.089762	0.000374	0.008345	0.004441	0.001261	0.012613
18-Aug-2029	9.725570	8.255690	12.637300	2.089850	29.220460	1.033710	0.012119	0.117538	0.033955	0.002254	0.001434	0.089974	0.000381	0.008415	0.004509	0.001279	0.012790
19-Aug-2029	9.639734	8.704050	13.457300	2.158940	30.624528	1.115870	0.012935	0.125704	0.034564	0.002389	0.001444	0.091191	0.000408	0.008745	0.004780	0.001347	0.013469
20-Aug-2029	10.077146	8.621750	13.309700	2.148500	30.376033	1.100750	0.012779	0.124144	0.034343	0.002362	0.001442	0.090869	0.000403	0.008670	0.004728	0.001334	0.013344
21-Aug-2029	9.121881	8.418670	12.941100	2.119500	29.749520	1.063490	0.012403	0.120377	0.033954	0.002300	0.001438	0.090251	0.000391	0.008506	0.004602	0.001304	0.013036
22-Aug-2029	9.223283	8.916810	13.850700	2.197750	31.315609	1.154470	0.013304	0.129381	0.034553	0.002453	0.001449	0.091766	0.000421	0.008868	0.004902	0.001378	0.013784
23-Aug-2029	9.792040	8.724470	13.500300	2.169520	30.719085	1.119130	0.012950	0.125825	0.034205	0.002394	0.001445	0.091168	0.000410	0.008716	0.004784	0.001349	0.013492
24-Aug-2029	9.744247	8.834610	13.695400	2.187950	31.069999	1.138600	0.013142	0.127745	0.034296	0.002436	0.001448	0.091960	0.000416	0.008800	0.004850	0.001365	0.013649
25-Aug-2029	10.045933	9.022850	14.041800	2.216950	31.659457	1.173250	0.013485	0.131176	0.034534	0.002490	0.001452	0.092271	0.000428	0.008935	0.004963	0.001394	0.013936
26-Aug-2029	10.459040	8.311620	12.745000	2.111090	29.447584	1.042720	0.012177	0.118081	0.033387	0.002274	0.001438	0.090249	0.000385	0.008388	0.004528	0.001286	0.012857
27-Aug-2029	9.494857	8.332590	12.785600	2.114870	29.515512	1.046650	0.012214	0.118448	0.033365	0.002277	0.001438	0.090164	0.000386	0.008397	0.004540	0.001289	0.012889
28-Aug-2029	8.486024	8.353860	12.824700	2.119460	29.587525	1.050380	0.012248	0.118777	0.033324	0.002284	0.001439	0.090259	0.000387	0.008406	0.004552	0.001292	0.012919
29-Aug-2029	8.415096	8.394880	12.901600	2.126720	29.719848	1.057910	0.012320	0.119488	0.033319	0.002295	0.001440	0.090270	0.000390	0.008429	0.004575	0.001298	0.012981
30-Aug-2029	8.490654	9.278160	14.514000	2.261030	32.478487	1.219770	0.013933	0.135634	0.034598	0.002563	0.001458	0.092768	0.000444	0.009092	0.005112	0.001432	0.014318
31-Aug-2029	8.216394	9.168170	14.314800	2.245240	32.138819	1.199610	0.013729	0.133591	0.034383	0.002528	0.001456	0.092385	0.000437	0.009003	0.005043	0.001415	0.014151
1-Sep-2029	8.155304	9.497140	14.916800	2.296250	33.170316	1.259870	0.014327	0.139562	0.034794	0.002627	0.001463	0.093263	0.000457	0.009243	0.005242	0.001465	0.014648
2-Sep-2029	8.248020	9.347270	14.646000	2.273940	32.704218	1.232680	0.014052	0.136816	0.034518	0.002581	0.001459	0.092750	0.000448	0.009123	0.005150	0.001442	0.014421
3-Sep-2029	8.569507	9.271930	14.511200	2.263140	32.471620	1.219340	0.013913	0.135420	0.034298	0.002563	0.001456	0.092615	0.000444	0.009056	0.005104	0.001430	0.014303
4-Sep-2029	7.684998	8.584340	13.255800	2.158960	30.325694	1.093270	0.012654	0.122828	0.033259	0.002354	0.001442	0.090698	0.000402	0.008538	0.004685	0.001326	0.013259

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Sep-2029	7.616815	8.635860	13.348800	2.167630	30.490043	1.102680	0.012744	0.123725	0.033253	0.002376	0.001442	0.091077	0.000405	0.008573	0.004716	0.001333	0.013330
6-Sep-2029	7.180833	8.654310	13.384400	2.170450	30.547725	1.106290	0.012779	0.124074	0.033247	0.002381	0.001442	0.091053	0.000406	0.008583	0.004727	0.001336	0.013358
7-Sep-2029	6.345935	8.700700	13.471400	2.177210	30.691399	1.115110	0.012865	0.124944	0.033295	0.002394	0.001442	0.091080	0.000409	0.008615	0.004755	0.001343	0.013430
8-Sep-2029	5.881384	8.756850	13.576200	2.185830	30.867102	1.125700	0.012968	0.125978	0.033332	0.002411	0.001443	0.091173	0.000413	0.008652	0.004789	0.001351	0.013514
9-Sep-2029	5.698862	8.814940	13.684400	2.194840	31.049256	1.136620	0.013075	0.127044	0.033367	0.002428	0.001443	0.091283	0.000416	0.008690	0.004824	0.001360	0.013601
10-Sep-2029	5.679096	8.862020	13.771300	2.202450	31.198153	1.145430	0.013159	0.127890	0.033367	0.002446	0.001443	0.091488	0.000419	0.008720	0.004852	0.001367	0.013669
11-Sep-2029	5.207813	9.189090	14.375200	2.252480	32.220870	1.206130	0.013761	0.133917	0.033761	0.002541	0.001448	0.092133	0.000439	0.008953	0.005050	0.001417	0.014167
12-Sep-2029	4.379110	8.905570	13.856300	2.209020	31.333953	1.154120	0.013241	0.128717	0.033344	0.002457	0.001442	0.091416	0.000422	0.008742	0.004878	0.001373	0.013735
13-Sep-2029	4.124147	8.931570	13.904000	2.213280	31.416417	1.158960	0.013288	0.129178	0.033340	0.002467	0.001443	0.091556	0.000424	0.008759	0.004893	0.001377	0.013771
14-Sep-2029	3.183663	9.020410	14.068100	2.226630	31.693226	1.175510	0.013451	0.130818	0.033447	0.002493	0.001444	0.091732	0.000429	0.008823	0.004947	0.001391	0.013907
15-Sep-2029	2.257006	9.038780	14.103600	2.229560	31.751162	1.179110	0.013485	0.131158	0.033433	0.002499	0.001444	0.091725	0.000430	0.008832	0.004958	0.001393	0.013934
16-Sep-2029	2.085736	9.087520	14.195500	2.237010	31.903545	1.188410	0.013574	0.132053	0.033453	0.002513	0.001444	0.091771	0.000433	0.008862	0.004987	0.001401	0.014006
17-Sep-2029	1.890645	9.402920	14.771600	2.284950	32.888515	1.246260	0.014151	0.137829	0.033908	0.002608	0.001450	0.092647	0.000453	0.009099	0.005179	0.001448	0.014485
18-Sep-2029	1.858181	9.305920	14.599300	2.270060	32.584989	1.229140	0.013976	0.136084	0.033694	0.002578	0.001446	0.092230	0.000447	0.009017	0.005120	0.001434	0.014338
19-Sep-2029	1.902721	10.100900	16.051500	2.390790	35.067221	1.374990	0.015430	0.150626	0.034832	0.002820	0.001462	0.094455	0.000496	0.009613	0.005603	0.001554	0.015541
20-Sep-2029	1.813090	9.276130	14.546800	2.265760	32.492896	1.223980	0.013921	0.135529	0.033577	0.002571	0.001445	0.092148	0.000445	0.008989	0.005101	0.001429	0.014289
21-Sep-2029	1.734192	9.656170	15.244700	2.324810	33.685024	1.293920	0.014616	0.142494	0.034067	0.002683	0.001452	0.093083	0.000469	0.009263	0.005330	0.001487	0.014866
22-Sep-2029	1.515038	9.370520	14.721800	2.280340	32.788629	1.241590	0.014094	0.137261	0.033654	0.002599	0.001446	0.092331	0.000451	0.009053	0.005158	0.001443	0.014431
23-Sep-2029	1.283794	9.248990	14.502300	2.262390	32.411250	1.219720	0.013872	0.135041	0.033389	0.002565	0.001442	0.092020	0.000444	0.008954	0.005083	0.001424	0.014243
24-Sep-2029	1.158117	9.627750	15.195500	2.319870	33.593716	1.289330	0.014565	0.141975	0.033918	0.002678	0.001450	0.093001	0.000467	0.009236	0.005313	0.001482	0.014817
25-Sep-2029	0.544162	9.430740	14.838100	2.289910	32.978407	1.253570	0.014206	0.138387	0.033593	0.002619	0.001445	0.092404	0.000455	0.009083	0.005193	0.001452	0.014519
26-Sep-2029	0.922858	9.514670	14.994800	2.302810	33.241103	1.269500	0.014360	0.139930	0.033625	0.002646	0.001445	0.092605	0.000460	0.009138	0.005244	0.001464	0.014642
27-Sep-2029	0.778699	9.459820	14.895200	2.294440	33.069674	1.259470	0.014260	0.138929	0.033540	0.002629	0.001444	0.092402	0.000457	0.009096	0.005210	0.001456	0.014560
28-Sep-2029	0.469986	9.695690	15.329900	2.330750	33.808166	1.303110	0.014692	0.143261	0.033820	0.002698	0.001448	0.092899	0.000472	0.009264	0.005353	0.001492	0.014918
29-Sep-2029	0.018804	9.474330	14.921100	2.297090	33.116819	1.261890	0.014286	0.139191	0.033607	0.002631	0.001445	0.092402	0.000458	0.009108	0.005219	0.001459	0.014585
30-Sep-2029	0.005396	9.573500	15.107600	2.312410	33.427534	1.280940	0.014469	0.141024	0.033576	0.002664	0.001444	0.092629	0.000464	0.009168	0.005278	0.001473	0.014729
1-Oct-2029	0.008844	9.297950	14.606800	2.270750	32.567930	1.230750	0.013966	0.136001	0.033133	0.002580	0.001438	0.091823	0.000448	0.008956	0.005110	0.001431	0.014312
2-Oct-2029	0.011736	9.270420	14.557300	2.265710	32.478433	1.226010	0.013918	0.135519	0.033083	0.002573	0.001437	0.091748	0.000446	0.008936	0.005094	0.001427	0.014269
3-Oct-2029	0.178391	9.244450	14.509800	2.261400	32.395837	1.221320	0.013872	0.135053	0.033049	0.002566	0.001436	0.091703	0.000444	0.008917	0.005079	0.001423	0.014229
4-Oct-2029	0.309431	9.241760	14.504900	2.260970	32.387349	1.220840	0.013867	0.135005	0.033047	0.002565	0.001436	0.091679	0.000444	0.008915	0.005077	0.001423	0.014225
5-Oct-2029	0.172380	9.232770	14.489000	2.259460	32.358683	1.219260	0.013851	0.134849	0.033038	0.002562	0.001436	0.091625	0.000444	0.008908	0.005072	0.001421	0.014212
6-Oct-2029	0.032859	9.184810	14.402200	2.251400	32.205736	1.210650	0.013766	0.134003	0.033022	0.002547	0.001435	0.091436	0.000441	0.008875	0.005044	0.001414	0.014142
7-Oct-2029	0.091623	9.205620	14.440700	2.254540	32.270629	1.214630	0.013804	0.134382	0.033028	0.002555	0.001435	0.091525	0.000442	0.008888	0.005056	0.001417	0.014171
8-Oct-2029	0.176376	9.192420	14.416800	2.252420	32.228938	1.212230	0.013780	0.134147	0.032992	0.002550	0.001434	0.091472	0.000441	0.008878	0.005048	0.001415	0.014152
9-Oct-2029	0.230442	9.185170	14.404000	2.251090	32.205358	1.211010	0.013768	0.134023	0.032989	0.002548	0.001433	0.091438	0.000441	0.008873	0.005044	0.001414	0.014141
10-Oct-2029	0.160004	9.163680	14.365600	2.247400	32.136502	1.207230	0.013730	0.133648	0.032976	0.002541	0.001433	0.091346	0.000440	0.008857	0.005031	0.001411	0.014109
11-Oct-2029	0.039929	9.136240	14.315800	2.242920	32.049536	1.202280	0.013681	0.133161	0.033026	0.002533	0.001433	0.091248	0.000438	0.008837	0.005015	0.001407	0.014068
12-Oct-2029	0.024718	9.116320	14.279500	2.239690	31.986494	1.198670	0.013645	0.132806	0.032908	0.002526	0.001431	0.091180	0.000437	0.008823	0.005003	0.001404	0.014039
13-Oct-2029	0.099477	9.090210	14.233200	2.235200	31.902808	1.194160	0.013600	0.132354	0.032869	0.002519	0.001430	0.091072	0.000435	0.008803	0.004987	0.001400	0.014000
14-Oct-2029	0.114057	9.080970	14.217000	2.233500	31.872735	1.192620	0.013584	0.132197	0.032856	0.002516	0.001430	0.091039	0.000435	0.008795	0.004982	0.001399	0.013985
15-Oct-2029	0.153339	9.059210	14.179000	2.229530	31.802052	1.188950	0.013547	0.131828	0.032844	0.002509	0.001429	0.090905	0.000433	0.008778	0.004969	0.001395	0.013953
16-Oct-2029	0.142831	9.065250	14.190200	2.231020	31.823270	1.190080	0.013558	0.131938	0.032841	0.002511	0.001429	0.090960	0.000434	0.008784	0.004973	0.001396	0.013963
17-Oct-2029	0.146325	9.170310	14.352700	2.256930	32.192302	1.203480	0.013713	0.133442	0.033223	0.002539	0.001446	0.092018	0.000439	0.008886	0.005030	0.001412	0.014125
18-Oct-2029	0.148339	9.232680	14.450700	2.272130	32.410633	1.211750	0.013806	0.134355	0.033450	0.002557	0.001456	0.092637	0.000442	0.008946	0.005064	0.001422	0.014221
19-Oct-2029	0.149037	9.307970	14.568500	2.290660	32.674939	1.221630	0.013919	0.135451	0.033717	0.002578	0.001467	0.093390	0.000445	0.009019	0.005106	0.001434	0.014336
20-Oct-2029	0.144809	9.363880	14.655400	2.304630	32.872075	1.228850	0.014002	0.136256	0.033926	0.002593	0.001476	0.093969	0.000448	0.009074	0.005136	0.001442	0.014423
21-Oct-2029	0.139572	9.352270	14.636500	2.302000	32.832254	1.227200	0.013984	0.136078	0.033890	0.002590	0.001475	0.093874	0.000447	0.009064	0.005130	0.001440	0.014405
22-Oct-2029	0.140541	9.375850	14.673200	2.307870	32.915306	1.230250	0.014019	0.136419	0.033977	0.002596	0.001479	0.094117	0.000449	0.009087	0.005143	0.001444	0.014441
23-Oct-2029	0.142197	9.350090	14.632200	2.301780	32.825905	1.226720	0.013979	0.136035	0.033895	0.002589	0.001475	0.093868	0.000447	0.009063	0.005128	0.001440	0.014402
24-Oct-2029	0.140917	9.357540	14.643700	2.303660	32.852249	1.227660	0.013990	0.136141	0.033924	0.002591	0.001476	0.093946	0.000448	0.009070	0.005132	0.001441	0.014413
25-Oct-2029	0.140454	9.397230	14.706000	2.313370	32.991341	1.232910	0.014050	0.136721	0.034065	0.002602	0.001483	0.094341	0.000450	0.009108	0.005154	0.001447	0.014475
26-Oct-2029	0.139664	9.432840	14.762100	2.321990	33.115756	1.237680	0.014104	0.137244	0.034186	0.002612	0.001488	0.094698	0.000451	0.009142	0.005174	0.001453	0.014529

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
27-Oct-2029	0.134866	9.474110	14.827500	2.331850	33.259411	1.243280	0.014166	0.137855	0.034327	0.002624	0.001494	0.095109	0.000453	0.009181	0.005197	0.001459	0.014592
28-Oct-2029	0.131224	9.504870	14.875400	2.339560	33.367968	1.247230	0.014212	0.138299	0.034440	0.002632	0.001499	0.095410	0.000455	0.009211	0.005214	0.001464	0.014640
29-Oct-2029	0.131381	9.549800	14.945800	2.350570	33.525498	1.253150	0.014279	0.138954	0.034603	0.002645	0.001506	0.095854	0.000457	0.009255	0.005238	0.001471	0.014709
30-Oct-2029	0.131734	9.582070	14.996500	2.358470	33.638608	1.257410	0.014328	0.139426	0.034718	0.002654	0.001511	0.096172	0.000458	0.009286	0.005256	0.001476	0.014759
31-Oct-2029	0.131032	9.602410	15.028300	2.363480	33.710028	1.260080	0.014358	0.139722	0.034793	0.002659	0.001514	0.096376	0.000459	0.009306	0.005267	0.001479	0.014790
1-Nov-2029	0.130518	9.627320	15.067600	2.369480	33.796937	1.263420	0.014396	0.140089	0.034879	0.002666	0.001518	0.096620	0.000461	0.009330	0.005281	0.001483	0.014828
2-Nov-2029	0.130000	9.663590	15.124500	2.378320	33.923906	1.268230	0.014450	0.140619	0.035003	0.002677	0.001523	0.096994	0.000462	0.009364	0.005301	0.001488	0.014884
3-Nov-2029	0.128033	9.692770	15.168900	2.385870	34.027859	1.271890	0.014492	0.141028	0.035107	0.002686	0.001528	0.097365	0.000464	0.009394	0.005317	0.001493	0.014927
4-Nov-2029	0.127276	9.732620	15.231600	2.395560	34.167268	1.277170	0.014552	0.141612	0.035252	0.002697	0.001535	0.097743	0.000466	0.009432	0.005339	0.001499	0.014989
5-Nov-2029	0.126961	9.769340	15.290000	2.404330	34.295073	1.282130	0.014608	0.142157	0.035380	0.002707	0.001540	0.098072	0.000467	0.009467	0.005359	0.001505	0.015046
6-Nov-2029	0.126634	9.797030	15.333600	2.411050	34.391888	1.285820	0.014650	0.142564	0.035481	0.002714	0.001544	0.098338	0.000469	0.009493	0.005374	0.001509	0.015089
7-Nov-2029	0.125853	9.829500	15.383900	2.419200	34.506527	1.289980	0.014698	0.143030	0.035603	0.002723	0.001550	0.098674	0.000470	0.009525	0.005392	0.001514	0.015139
8-Nov-2029	0.125014	9.859680	15.429800	2.427200	34.614831	1.293720	0.014742	0.143452	0.035713	0.002733	0.001555	0.099101	0.000472	0.009556	0.005408	0.001518	0.015185
9-Nov-2029	0.124914	9.903360	15.496900	2.438160	34.769033	1.299270	0.014806	0.144072	0.035871	0.002745	0.001562	0.099547	0.000474	0.009599	0.005432	0.001525	0.015251
10-Nov-2029	0.124861	9.936820	15.550500	2.446030	34.884991	1.303860	0.014857	0.144575	0.035989	0.002754	0.001567	0.099830	0.000475	0.009630	0.005450	0.001530	0.015303
11-Nov-2029	0.124968	9.959670	15.586500	2.451560	34.964820	1.306900	0.014891	0.144911	0.036071	0.002760	0.001570	0.100047	0.000476	0.009652	0.005463	0.001534	0.015338
12-Nov-2029	0.125160	10.000700	15.650100	2.461810	35.109481	1.312190	0.014952	0.145500	0.036221	0.002772	0.001577	0.100483	0.000478	0.009692	0.005485	0.001540	0.015401
13-Nov-2029	0.125441	10.043600	15.717700	2.472290	35.259759	1.317890	0.015017	0.146130	0.036377	0.002783	0.001584	0.100897	0.000480	0.009734	0.005509	0.001547	0.015468
14-Nov-2029	0.125782	10.095300	15.799200	2.484820	35.440453	1.324760	0.015095	0.146889	0.036563	0.002797	0.001592	0.101385	0.000483	0.009783	0.005538	0.001555	0.015548
15-Nov-2029	0.125882	10.130300	15.853400	2.493620	35.564086	1.329260	0.015147	0.147392	0.036691	0.002807	0.001597	0.101766	0.000485	0.009818	0.005557	0.001560	0.015601
16-Nov-2029	0.125806	10.142900	15.872700	2.496810	35.608685	1.330860	0.015165	0.147570	0.036737	0.002811	0.001600	0.101909	0.000485	0.009830	0.005564	0.001562	0.015621
17-Nov-2029	0.125691	10.171600	15.918500	2.503590	35.708269	1.334780	0.015209	0.147999	0.036837	0.002819	0.001604	0.102159	0.000487	0.009857	0.005579	0.001566	0.015665
18-Nov-2029	0.125637	10.229700	16.009900	2.517810	35.911902	1.342460	0.015296	0.148849	0.037046	0.002835	0.001613	0.102732	0.000489	0.009913	0.005611	0.001575	0.015755
19-Nov-2029	0.125526	10.249100	16.039600	2.522740	35.980646	1.344910	0.015324	0.149124	0.037117	0.002840	0.001616	0.102951	0.000490	0.009933	0.005622	0.001578	0.015784
20-Nov-2029	0.125290	10.266600	16.066700	2.527100	36.042298	1.347180	0.015350	0.149376	0.037180	0.002845	0.001619	0.103138	0.000491	0.009950	0.005631	0.001581	0.015811
21-Nov-2029	0.125243	10.317700	16.147200	2.539520	36.221040	1.353970	0.015427	0.150126	0.037364	0.002859	0.001627	0.103628	0.000494	0.009999	0.005660	0.001589	0.015890
22-Nov-2029	0.125297	10.361300	16.215800	2.550220	36.373972	1.359730	0.015493	0.150763	0.037521	0.002871	0.001634	0.104059	0.000496	0.010041	0.005684	0.001596	0.015957
23-Nov-2029	0.125358	10.391700	16.262800	2.557800	36.481095	1.363640	0.015538	0.151200	0.037633	0.002880	0.001638	0.104379	0.000497	0.010071	0.005700	0.001600	0.016004
24-Nov-2029	0.125237	10.389700	16.260200	2.557170	36.473507	1.363460	0.015535	0.151177	0.037626	0.002879	0.001638	0.104332	0.000497	0.010068	0.005699	0.001600	0.016001
25-Nov-2029	0.125200	10.427100	16.318700	2.566390	36.604863	1.368350	0.015591	0.151720	0.037762	0.002889	0.001644	0.104711	0.000499	0.010105	0.005720	0.001606	0.016059
26-Nov-2029	0.125233	10.479800	16.401100	2.579370	36.789906	1.375260	0.015670	0.152487	0.037953	0.002904	0.001652	0.105242	0.000501	0.010156	0.005748	0.001614	0.016140
27-Nov-2029	0.125284	10.526600	16.474500	2.590890	36.954205	1.381410	0.015740	0.153168	0.038122	0.002917	0.001660	0.105711	0.000504	0.010201	0.005774	0.001621	0.016212
28-Nov-2029	0.125298	10.538800	16.493600	2.593850	36.996858	1.383020	0.015758	0.153347	0.038166	0.002920	0.001661	0.105829	0.000504	0.010213	0.005781	0.001623	0.016231
29-Nov-2029	0.125317	10.561200	16.528500	2.599400	37.075646	1.385940	0.015792	0.153671	0.038246	0.002927	0.001665	0.106064	0.000505	0.010235	0.005793	0.001626	0.016265
30-Nov-2029	0.125276	10.601900	16.592200	2.609410	37.218495	1.391300	0.015852	0.154264	0.038393	0.002938	0.001671	0.106471	0.000507	0.010274	0.005815	0.001633	0.016328
1-Dec-2029	0.125264	10.634900	16.644100	2.617470	37.334087	1.395660	0.015902	0.154747	0.038513	0.002947	0.001677	0.106790	0.000509	0.010306	0.005834	0.001638	0.016379
2-Dec-2029	0.125280	10.671900	16.702100	2.626600	37.464073	1.400520	0.015958	0.155286	0.038647	0.002957	0.001682	0.107175	0.000511	0.010342	0.005854	0.001644	0.016436
3-Dec-2029	0.125269	10.720500	16.777900	2.638570	37.634720	1.406870	0.016030	0.155990	0.038822	0.002971	0.001690	0.107660	0.000513	0.010389	0.005881	0.001651	0.016510
4-Dec-2029	0.125264	10.753800	16.830200	2.646780	37.751679	1.411260	0.016080	0.156476	0.038942	0.002980	0.001695	0.107995	0.000515	0.010421	0.005899	0.001656	0.016562
5-Dec-2029	0.125254	10.792400	16.890700	2.656220	37.886937	1.416340	0.016138	0.157039	0.039083	0.002991	0.001701	0.108372	0.000516	0.010459	0.005920	0.001662	0.016621
6-Dec-2029	0.125236	10.829400	16.948400	2.665410	38.017170	1.421170	0.016193	0.157575	0.039216	0.003001	0.001707	0.108758	0.000518	0.010495	0.005940	0.001668	0.016678
7-Dec-2029	0.125229	10.870200	17.011900	2.675540	38.160763	1.426470	0.016253	0.158165	0.039364	0.003013	0.001714	0.109183	0.000520	0.010534	0.005963	0.001674	0.016741
8-Dec-2029	0.125222	10.910600	17.075300	2.685450	38.302451	1.431800	0.016314	0.158755	0.039510	0.003024	0.001720	0.109582	0.000522	0.010573	0.005985	0.001680	0.016803
9-Dec-2029	0.125206	10.940900	17.122800	2.692890	38.408748	1.435780	0.016359	0.159196	0.039620	0.003032	0.001725	0.109884	0.000523	0.010603	0.006001	0.001685	0.016850
10-Dec-2029	0.125204	10.974700	17.175600	2.701170	38.527244	1.440210	0.016410	0.159687	0.039741	0.003041	0.001730	0.110222	0.000525	0.010635	0.006020	0.001690	0.016902
11-Dec-2029	0.125211	11.020000	17.246500	2.712300	38.686191	1.446170	0.016478	0.160347	0.039905	0.003054	0.001737	0.110674	0.000527	0.010679	0.006045	0.001697	0.016971
12-Dec-2029	0.125208	11.058100	17.306200	2.721670	38.819913	1.451180	0.016535	0.160902	0.040043	0.003064	0.001743	0.111054	0.000529	0.010716	0.006066	0.001703	0.017030
13-Dec-2029	0.125205	11.094500	17.363300	2.730640	38.947742	1.455970	0.016589	0.161433	0.040175	0.003075	0.001749	0.111421	0.000531	0.010751	0.006086	0.001709	0.017086
14-Dec-2029	0.125215	11.146300	17.444300	2.743370	39.129509	1.462750	0.016667	0.162186	0.040362	0.003089	0.001757	0.111940	0.000533	0.010802	0.006114	0.001717	0.017166
15-Dec-2029	0.125222	11.184300	17.503900	2.752730	39.262939	1.467750	0.016724	0.162740	0.040500	0.003099	0.001763	0.112320	0.000535	0.010838	0.006135	0.001722	0.017225
16-Dec-2029	0.125212	11.216300	17.553800	2.760630	39.375375	1.471930	0.016771	0.163204	0.040616	0.003108	0.001768	0.112645	0.000537	0.010869	0.006152	0.001727	0.017274
17-Dec-2029	0.125220	11.249300	17.605600	2.768710	39.491050	1.476280	0.016821	0.163686	0.040736	0.003117	0.001773	0.112969	0.000538	0.010901	0.006171	0.001732	0.017325

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Dec-2029	0.125225	11.281300	17.655700	2.776580	39.603363	1.480480	0.016869	0.164151	0.040852	0.003126	0.001778	0.113290	0.000540	0.010932	0.006188	0.001737	0.017374
19-Dec-2029	0.125224	11.319800	17.716000	2.786050	39.738495	1.485540	0.016926	0.164712	0.040991	0.003137	0.001785	0.113676	0.000542	0.010970	0.006209	0.001743	0.017433
20-Dec-2029	0.125223	11.362100	17.782100	2.796500	39.887151	1.491080	0.016989	0.165327	0.041144	0.003149	0.001791	0.114107	0.000544	0.011011	0.006233	0.001750	0.017498
21-Dec-2029	0.125220	11.402300	17.845000	2.806420	40.028381	1.496350	0.017049	0.165911	0.041290	0.003160	0.001798	0.114513	0.000546	0.011050	0.006255	0.001756	0.017560
22-Dec-2029	0.125218	11.449100	17.918400	2.817880	40.192433	1.502510	0.017120	0.166594	0.041459	0.003173	0.001805	0.114976	0.000548	0.011095	0.006280	0.001763	0.017632
23-Dec-2029	0.125216	11.489900	17.982200	2.827920	40.335655	1.507860	0.017181	0.167187	0.041607	0.003184	0.001811	0.115386	0.000550	0.011135	0.006303	0.001770	0.017695
24-Dec-2029	0.125214	11.529500	18.044100	2.837670	40.474687	1.513060	0.017240	0.167763	0.041750	0.003195	0.001818	0.115785	0.000552	0.011173	0.006324	0.001776	0.017756
25-Dec-2029	0.125209	11.581600	18.125500	2.850520	40.657697	1.519870	0.017317	0.168519	0.041939	0.003210	0.001826	0.116313	0.000554	0.011223	0.006353	0.001784	0.017836
26-Dec-2029	0.125207	11.613800	18.176000	2.858440	40.770715	1.524110	0.017366	0.168989	0.042055	0.003218	0.001831	0.116634	0.000556	0.011255	0.006371	0.001789	0.017886
27-Dec-2029	0.125201	11.660500	18.249100	2.869920	40.934599	1.530250	0.017436	0.169669	0.042224	0.003231	0.001838	0.117102	0.000558	0.011300	0.006396	0.001796	0.017958
28-Dec-2029	0.125196	11.699900	18.310800	2.879600	41.072843	1.535420	0.017495	0.170242	0.042367	0.003242	0.001844	0.117496	0.000560	0.011338	0.006418	0.001802	0.018019
29-Dec-2029	0.125191	11.743400	18.378800	2.890340	41.225690	1.541120	0.017559	0.170874	0.042524	0.003254	0.001851	0.117937	0.000562	0.011380	0.006442	0.001809	0.018086
30-Dec-2029	0.125185	11.793500	18.457300	2.902670	41.401565	1.547700	0.017634	0.171604	0.042706	0.003268	0.001859	0.118440	0.000564	0.011429	0.006469	0.001816	0.018163
31-Dec-2029	0.125179	11.842000	18.533200	2.914620	41.571879	1.554060	0.017707	0.172310	0.042881	0.003282	0.001867	0.118928	0.000567	0.011476	0.006496	0.001824	0.018237
1-Jan-2030	0.125175	11.898200	18.621000	2.928450	41.769163	1.561420	0.017791	0.173126	0.043085	0.003297	0.001876	0.119495	0.000569	0.011530	0.006527	0.001832	0.018324
2-Jan-2030	0.125168	11.956300	18.712000	2.942760	41.973167	1.569050	0.017878	0.173972	0.043295	0.003313	0.001885	0.120079	0.000572	0.011587	0.006558	0.001841	0.018413
3-Jan-2030	0.125162	12.011200	18.797800	2.956250	42.165804	1.576250	0.017960	0.174770	0.043494	0.003329	0.001894	0.120628	0.000575	0.011640	0.006589	0.001850	0.018498
4-Jan-2030	0.125163	12.072600	18.893900	2.971410	42.381549	1.584300	0.018052	0.175663	0.043716	0.003346	0.001903	0.121251	0.000578	0.011699	0.006622	0.001859	0.018592
5-Jan-2030	0.125158	12.127900	18.980400	2.985000	42.575596	1.591560	0.018134	0.176467	0.043916	0.003361	0.001912	0.121805	0.000580	0.011753	0.006653	0.001868	0.018678
6-Jan-2030	0.125154	12.183200	19.067000	2.998610	42.769726	1.598820	0.018217	0.177272	0.044117	0.003376	0.001921	0.122360	0.000583	0.011806	0.006683	0.001876	0.018763
7-Jan-2030	0.125163	12.229500	19.139300	3.010070	42.932530	1.604870	0.018286	0.177944	0.044285	0.003389	0.001928	0.122833	0.000585	0.011852	0.006708	0.001883	0.018834
8-Jan-2030	0.125162	12.274100	19.209100	3.021030	43.089029	1.610730	0.018353	0.178593	0.044446	0.003402	0.001935	0.123280	0.000587	0.011895	0.006733	0.001890	0.018903
9-Jan-2030	0.125161	12.309900	19.265100	3.029840	43.214701	1.615420	0.018406	0.179114	0.044576	0.003412	0.001941	0.123640	0.000589	0.011929	0.006752	0.001896	0.018958
10-Jan-2030	0.125170	12.367700	19.355300	3.044130	43.417874	1.622970	0.018492	0.179952	0.044785	0.003428	0.001950	0.124229	0.000592	0.011986	0.006784	0.001905	0.019047
11-Jan-2030	0.125168	12.406400	19.416100	3.053650	43.553712	1.628070	0.018550	0.180517	0.044926	0.003438	0.001956	0.124616	0.000594	0.012023	0.006805	0.001911	0.019106
12-Jan-2030	0.125161	12.444900	19.476400	3.063110	43.688802	1.633130	0.018608	0.181078	0.045065	0.003449	0.001962	0.125001	0.000595	0.012060	0.006826	0.001917	0.019166
13-Jan-2030	0.125168	12.512500	19.581900	3.079820	43.926411	1.641950	0.018709	0.182058	0.045310	0.003468	0.001973	0.125691	0.000599	0.012126	0.006863	0.001927	0.019270
14-Jan-2030	0.125168	12.551500	19.643100	3.089410	44.063286	1.647090	0.018767	0.182627	0.045451	0.003479	0.001979	0.126080	0.000601	0.012164	0.006885	0.001933	0.019330
15-Jan-2030	0.125164	12.590800	19.704500	3.099050	44.201116	1.652240	0.018826	0.183198	0.045593	0.003490	0.001985	0.126473	0.000602	0.012202	0.006906	0.001939	0.019390
16-Jan-2030	0.125171	12.647700	19.793300	3.113110	44.401094	1.659680	0.018911	0.184023	0.045799	0.003505	0.001994	0.127053	0.000605	0.012257	0.006938	0.001948	0.019478
17-Jan-2030	0.125171	12.673500	19.833700	3.119460	44.491666	1.663070	0.018949	0.184399	0.045893	0.003513	0.001998	0.127311	0.000606	0.012282	0.006952	0.001952	0.019517
18-Jan-2030	0.125167	12.710500	19.891700	3.128580	44.621611	1.667930	0.019005	0.184939	0.046027	0.003523	0.002004	0.127684	0.000608	0.012318	0.006972	0.001957	0.019575
19-Jan-2030	0.125174	12.780200	20.000600	3.145770	44.866440	1.677050	0.019109	0.185950	0.046280	0.003542	0.002015	0.128391	0.000611	0.012386	0.007010	0.001968	0.019682
20-Jan-2030	0.125174	12.831400	20.081000	3.158270	45.045762	1.683820	0.019186	0.186699	0.046464	0.003556	0.002023	0.128890	0.000614	0.012435	0.007038	0.001976	0.019761
21-Jan-2030	0.125172	12.923800	20.225600	3.181020	45.370169	1.695940	0.019324	0.188043	0.046799	0.003582	0.002038	0.129819	0.000618	0.012524	0.007089	0.001990	0.019903
22-Jan-2030	0.125179	13.018600	20.374100	3.204360	45.702999	1.708390	0.019466	0.189424	0.047142	0.003608	0.002053	0.130771	0.000623	0.012616	0.007141	0.002005	0.020049
23-Jan-2030	0.125180	13.130200	20.548600	3.231830	46.094785	1.723020	0.019632	0.191046	0.047546	0.003639	0.002070	0.131894	0.000628	0.012725	0.007202	0.002022	0.020221
24-Jan-2030	0.125176	13.223800	20.695100	3.254890	46.423466	1.735310	0.019772	0.192408	0.047885	0.003665	0.002085	0.132836	0.000633	0.012815	0.007254	0.002037	0.020365
25-Jan-2030	0.125178	13.297000	20.809600	3.272910	46.680452	1.744900	0.019882	0.193472	0.048150	0.003685	0.002096	0.133573	0.000636	0.012886	0.007294	0.002048	0.020478
26-Jan-2030	0.125177	13.367600	20.920100	3.290310	46.928394	1.754160	0.019987	0.194499	0.048406	0.003705	0.002108	0.134284	0.000640	0.012955	0.007332	0.002059	0.020586
27-Jan-2030	0.125171	13.427200	21.013300	3.304980	47.137626	1.761980	0.020076	0.195366	0.048622	0.003722	0.002117	0.134884	0.000642	0.013012	0.007365	0.002068	0.020678
28-Jan-2030	0.125168	13.505700	21.136100	3.324300	47.413200	1.772280	0.020194	0.196508	0.048906	0.003743	0.002129	0.135673	0.000646	0.013089	0.007408	0.002080	0.020799
29-Jan-2030	0.125164	13.590200	21.268400	3.345100	47.709851	1.783370	0.020320	0.197737	0.049212	0.003767	0.002143	0.136522	0.000650	0.013170	0.007455	0.002093	0.020929
30-Jan-2030	0.125158	13.660200	21.378000	3.362340	47.955636	1.792560	0.020425	0.198756	0.049465	0.003786	0.002154	0.137226	0.000654	0.013238	0.007493	0.002104	0.021037
31-Jan-2030	0.125154	13.720100	21.471600	3.377070	48.165864	1.800410	0.020514	0.199627	0.049682	0.003803	0.002163	0.137828	0.000656	0.013296	0.007526	0.002113	0.021129
1-Feb-2030	0.125152	13.776400	21.559800	3.390950	48.363603	1.807800	0.020599	0.200447	0.049886	0.003818	0.002172	0.138395	0.000659	0.013351	0.007557	0.002122	0.021216
2-Feb-2030	0.125149	13.828400	21.641200	3.403750	48.546157	1.814620	0.020676	0.201203	0.050074	0.003833	0.002180	0.138918	0.000662	0.013401	0.007585	0.002130	0.021296
3-Feb-2030	0.125147	13.877600	21.718200	3.415870	48.718920	1.821080	0.020750	0.201919	0.050252	0.003846	0.002188	0.139413	0.000664	0.013449	0.007612	0.002137	0.021372
4-Feb-2030	0.125144	13.927100	21.795500	3.428040	48.892637	1.827570	0.020824	0.202639	0.050431	0.003860	0.002196	0.139910	0.000666	0.013497	0.007639	0.002145	0.021448
5-Feb-2030	0.125141	13.974700	21.870000	3.439750	49.059716	1.833810	0.020895	0.203331	0.050604	0.003873	0.002203	0.140388	0.000669	0.013543	0.007665	0.002152	0.021521
6-Feb-2030	0.125138	13.825800	21.637100	3.403120	48.537071	1.814280	0.020672	0.201165	0.050065	0.003832	0.002180	0.138893	0.000661	0.013399	0.007584	0.002129	0.021292
7-Feb-2030	0.125136	13.865600	21.699400	3.412910	48.676767	1.819500	0.020732	0.201744	0.050209	0.003843	0.002186	0.139293	0.000663	0.013437	0.007606	0.002135	0.021353

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Feb-2030	0.125136	13.912600	21.772800	3.424460	48.841688	1.825660	0.020802	0.202427	0.050379	0.003856	0.002194	0.139765	0.000666	0.013483	0.007631	0.002143	0.021426
9-Feb-2030	0.125137	13.965900	21.856300	3.437600	49.028889	1.832670	0.020882	0.203204	0.050572	0.003871	0.002202	0.140301	0.000668	0.013535	0.007661	0.002151	0.021508
10-Feb-2030	0.125137	14.011400	21.927400	3.448780	49.188542	1.838630	0.020950	0.203865	0.050736	0.003884	0.002209	0.140757	0.000670	0.013579	0.007686	0.002158	0.021578
11-Feb-2030	0.125137	14.064100	22.009900	3.461750	49.373544	1.845550	0.021029	0.204632	0.050927	0.003898	0.002217	0.141286	0.000673	0.013630	0.007714	0.002166	0.021659
12-Feb-2030	0.125135	14.084100	22.041400	3.466670	49.443745	1.848190	0.021059	0.204925	0.050999	0.003904	0.002221	0.141487	0.000674	0.013649	0.007726	0.002169	0.021690
13-Feb-2030	0.125134	14.149900	22.144400	3.482860	49.674718	1.856830	0.021157	0.205882	0.051237	0.003922	0.002231	0.142147	0.000677	0.013713	0.007762	0.002179	0.021791
14-Feb-2030	0.125133	14.214700	22.245800	3.498810	49.902205	1.865330	0.021254	0.206825	0.051472	0.003940	0.002241	0.142798	0.000680	0.013776	0.007797	0.002189	0.021891
15-Feb-2030	0.125132	14.278700	22.346000	3.514560	50.126872	1.873730	0.021350	0.207756	0.051703	0.003958	0.002251	0.143441	0.000683	0.013838	0.007832	0.002199	0.021989
16-Feb-2030	0.125131	14.341000	22.443400	3.529890	50.345564	1.881900	0.021443	0.208662	0.051929	0.003975	0.002261	0.144066	0.000686	0.013898	0.007866	0.002209	0.022085
17-Feb-2030	0.125130	14.416500	22.561600	3.548470	50.610600	1.891820	0.021556	0.209761	0.052202	0.003996	0.002273	0.144824	0.000690	0.013971	0.007908	0.002220	0.022202
18-Feb-2030	0.125128	14.494500	22.683600	3.567650	50.884349	1.902050	0.021672	0.210895	0.052484	0.004017	0.002285	0.145607	0.000693	0.014047	0.007951	0.002232	0.022322
19-Feb-2030	0.125127	14.570700	22.803000	3.586420	51.151915	1.912060	0.021786	0.212005	0.052761	0.004039	0.002297	0.146373	0.000697	0.014121	0.007992	0.002244	0.022439
20-Feb-2030	0.125126	14.647200	22.922600	3.605230	51.420396	1.922090	0.021901	0.213117	0.053037	0.004060	0.002309	0.147140	0.000701	0.014195	0.008034	0.002256	0.022557
21-Feb-2030	0.125125	14.754900	23.091200	3.631740	51.798491	1.936220	0.022062	0.214685	0.053427	0.004090	0.002326	0.148222	0.000706	0.014299	0.008093	0.002272	0.022723
22-Feb-2030	0.125124	14.867900	23.268100	3.659570	52.195256	1.951060	0.022231	0.216330	0.053837	0.004121	0.002344	0.149357	0.000711	0.014409	0.008155	0.002290	0.022897
23-Feb-2030	0.125122	14.973400	23.433200	3.685530	52.565592	1.964910	0.022388	0.217865	0.054218	0.004150	0.002361	0.150416	0.000716	0.014511	0.008213	0.002306	0.023059
24-Feb-2030	0.125122	15.077900	23.596800	3.711250	52.932444	1.978620	0.022545	0.219386	0.054597	0.004179	0.002377	0.151466	0.000721	0.014612	0.008271	0.002322	0.023220
25-Feb-2030	0.125122	14.950300	23.397000	3.679840	52.484480	1.961870	0.022354	0.217529	0.054135	0.004144	0.002357	0.150184	0.000715	0.014488	0.008201	0.002302	0.023024
26-Feb-2030	0.125122	15.026800	23.516700	3.698660	52.753001	1.971910	0.022468	0.218641	0.054412	0.004165	0.002369	0.150952	0.000719	0.014562	0.008243	0.002314	0.023141
27-Feb-2030	0.125121	15.105000	23.639200	3.717920	53.027580	1.982180	0.022585	0.219780	0.054695	0.004187	0.002381	0.151738	0.000723	0.014638	0.008286	0.002326	0.023262
28-Feb-2030	0.125120	15.195400	23.780600	3.740150	53.344852	1.994030	0.022720	0.221094	0.055022	0.004212	0.002396	0.152646	0.000727	0.014726	0.008335	0.002340	0.023401
1-Mar-2030	0.125119	15.291900	23.931600	3.763910	53.683656	2.006700	0.022865	0.222499	0.055372	0.004238	0.002411	0.153615	0.000732	0.014819	0.008388	0.002355	0.023550
2-Mar-2030	0.125119	15.389900	24.085000	3.788030	54.027688	2.019560	0.023011	0.223925	0.055726	0.004266	0.002426	0.154600	0.000736	0.014914	0.008442	0.002370	0.023701
3-Mar-2030	0.125118	15.486100	24.235600	3.811710	54.365413	2.032190	0.023155	0.225325	0.056075	0.004292	0.002442	0.155566	0.000741	0.015008	0.008495	0.002385	0.023849
4-Mar-2030	0.125117	15.581700	24.385200	3.835250	54.701064	2.044730	0.023298	0.226716	0.056421	0.004319	0.002457	0.156527	0.000745	0.015100	0.008547	0.002400	0.023996
5-Mar-2030	0.125117	15.680000	24.539000	3.859440	55.046134	2.057630	0.023445	0.228146	0.056777	0.004346	0.002472	0.157514	0.000750	0.015196	0.008601	0.002415	0.024147
6-Mar-2030	0.125117	15.780800	24.696800	3.884250	55.399999	2.070860	0.023596	0.229613	0.057142	0.004374	0.002488	0.158527	0.000755	0.015293	0.008656	0.002430	0.024303
7-Mar-2030	0.125116	15.878700	24.849900	3.908340	55.743658	2.083700	0.023742	0.231037	0.057496	0.004401	0.002503	0.159510	0.000760	0.015388	0.008710	0.002445	0.024453
8-Mar-2030	0.125116	15.978100	25.005600	3.932820	56.092668	2.096760	0.023891	0.232484	0.057856	0.004429	0.002519	0.160509	0.000764	0.015484	0.008764	0.002461	0.024607
9-Mar-2030	0.125116	16.090900	25.182000	3.960570	56.488605	2.111550	0.024059	0.234124	0.058265	0.004460	0.002537	0.161641	0.000770	0.015594	0.008826	0.002478	0.024780
10-Mar-2030	0.125116	16.203800	25.358800	3.988380	56.885037	2.126370	0.024228	0.235768	0.058674	0.004491	0.002555	0.162776	0.000775	0.015703	0.008888	0.002495	0.024954
11-Mar-2030	0.125115	16.323000	25.545300	4.017700	57.303420	2.142010	0.024406	0.237501	0.059105	0.004524	0.002573	0.163973	0.000781	0.015819	0.008954	0.002514	0.025138
12-Mar-2030	0.125115	16.458500	25.757300	4.051070	57.779181	2.159790	0.024609	0.239473	0.059596	0.004562	0.002595	0.165335	0.000787	0.015950	0.009028	0.002535	0.025346
13-Mar-2030	0.125115	16.629600	26.025100	4.093180	58.379826	2.182240	0.024865	0.241962	0.060216	0.004609	0.002622	0.167054	0.000796	0.016116	0.009122	0.002561	0.025610
14-Mar-2030	0.125115	16.809300	26.306300	4.137410	59.010676	2.205820	0.025133	0.244577	0.060866	0.004659	0.002650	0.168859	0.000804	0.016290	0.009220	0.002589	0.025887
15-Mar-2030	0.125115	16.993600	26.594800	4.182780	59.657707	2.230010	0.025409	0.247259	0.061534	0.004710	0.002679	0.170711	0.000813	0.016469	0.009321	0.002617	0.026170
16-Mar-2030	0.125115	17.184400	26.893400	4.229740	60.327516	2.255040	0.025694	0.250035	0.062225	0.004763	0.002709	0.172627	0.000822	0.016653	0.009426	0.002646	0.026464
17-Mar-2030	0.125115	17.379800	27.199100	4.277830	61.013465	2.280680	0.025986	0.252878	0.062932	0.004817	0.002740	0.174590	0.000832	0.016843	0.009533	0.002677	0.026765
18-Mar-2030	0.125115	17.577600	27.508800	4.326530	61.707918	2.306650	0.026282	0.255756	0.063649	0.004872	0.002771	0.176578	0.000841	0.017035	0.009642	0.002707	0.027070
19-Mar-2030	0.125115	17.777300	27.821300	4.375680	62.408968	2.332850	0.026581	0.258662	0.064372	0.004927	0.002803	0.178584	0.000851	0.017228	0.009751	0.002738	0.027377
20-Mar-2030	0.125115	17.979000	28.136800	4.425310	63.116990	2.359310	0.026882	0.261596	0.065102	0.004983	0.002835	0.180609	0.000860	0.017423	0.009862	0.002769	0.027688
21-Mar-2030	0.125115	18.182600	28.455500	4.475440	63.831814	2.386030	0.027187	0.264559	0.065839	0.005040	0.002867	0.182655	0.000870	0.017621	0.009974	0.002800	0.028002
22-Mar-2030	0.125115	18.388300	28.777400	4.526060	64.553900	2.413020	0.027494	0.267551	0.066584	0.005097	0.002899	0.184721	0.000880	0.017820	0.010087	0.002832	0.028318
23-Mar-2030	0.125115	18.596200	29.102800	4.577240	65.283786	2.440310	0.027805	0.270577	0.067337	0.005154	0.002932	0.186810	0.000890	0.018022	0.010201	0.002864	0.028638
24-Mar-2030	0.125115	18.806200	29.431400	4.628920	66.020974	2.467860	0.028119	0.273632	0.068097	0.005212	0.002965	0.188919	0.000900	0.018225	0.010316	0.002896	0.028962
25-Mar-2030	0.125115	19.017600	29.762300	4.680960	66.763140	2.495610	0.028435	0.276708	0.068863	0.005271	0.002998	0.191043	0.000910	0.018430	0.010432	0.002929	0.029287
26-Mar-2030	0.125115	19.230100	30.094800	4.733250	67.509083	2.523480	0.028753	0.279799	0.069632	0.005330	0.003032	0.193177	0.000920	0.018636	0.010548	0.002961	0.029615
27-Mar-2030	0.125115	19.443200	30.428300	4.785710	68.257224	2.551450	0.029072	0.282900	0.070404	0.005389	0.003065	0.195318	0.000930	0.018842	0.010665	0.002994	0.029943
28-Mar-2030	0.125115	19.657300	30.763300	4.838410	69.008850	2.579550	0.029392	0.286015	0.071179	0.005448	0.003099	0.197469	0.000940	0.019050	0.010783	0.003027	0.030273
29-Mar-2030	0.125115	19.872500	31.100300	4.891400	69.764418	2.607800	0.029714	0.289147	0.071958	0.005508	0.003133	0.199631	0.000951	0.019259	0.010901	0.003060	0.030604
30-Mar-2030	0.125115	20.089200	31.439400	4.944730	70.525131	2.636230	0.030038	0.292300	0.072743	0.005568	0.003167	0.201808	0.000961	0.019469	0.011020	0.003094	0.030938
31-Mar-2030	0.125115	20.306400	31.779100	4.998170	71.287545	2.664720	0.030362	0.295459	0.073529	0.005628	0.003202	0.203989	0.000972	0.019679	0.011139	0.003127	0.031272

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Apr-2030	0.125115	20.471600	32.037800	5.038860	71.867611	2.686410	0.030609	0.297864	0.074128	0.005674	0.003228	0.205650	0.000979	0.019839	0.011229	0.003153	0.031527
2-Apr-2030	0.125115	20.336200	31.825900	5.005520	71.392223	2.668640	0.030407	0.295894	0.073637	0.005637	0.003206	0.204289	0.000973	0.019708	0.011155	0.003132	0.031318
3-Apr-2030	0.125115	20.175000	31.573600	4.965840	70.826304	2.647480	0.030166	0.293548	0.073053	0.005592	0.003181	0.202670	0.000965	0.019552	0.011067	0.003107	0.031070
4-Apr-2030	0.125115	20.031800	31.349400	4.930580	70.323533	2.628690	0.029952	0.291464	0.072535	0.005552	0.003158	0.201231	0.000958	0.019413	0.010988	0.003085	0.030849
5-Apr-2030	0.125115	19.902900	31.147700	4.898870	69.871088	2.611780	0.029759	0.289589	0.072068	0.005516	0.003138	0.199936	0.000952	0.019288	0.010917	0.003065	0.030651
6-Apr-2030	0.125115	19.786600	30.965800	4.870250	69.462830	2.596520	0.029585	0.287897	0.071647	0.005484	0.003120	0.198768	0.000947	0.019175	0.010854	0.003047	0.030472
7-Apr-2030	0.125115	19.681400	30.801000	4.844340	69.093448	2.582710	0.029428	0.286366	0.071266	0.005455	0.003103	0.197711	0.000942	0.019073	0.010796	0.003031	0.030310
8-Apr-2030	0.125115	19.585300	30.650800	4.820700	68.756137	2.570110	0.029284	0.284969	0.070918	0.005428	0.003088	0.196746	0.000937	0.018980	0.010743	0.003016	0.030162
9-Apr-2030	0.125115	19.496900	30.512300	4.798930	68.445753	2.558500	0.029152	0.283682	0.070598	0.005404	0.003074	0.195858	0.000933	0.018895	0.010695	0.003003	0.030026
10-Apr-2030	0.125115	19.414600	30.383600	4.778680	68.156860	2.547700	0.029029	0.282484	0.070300	0.005381	0.003061	0.195031	0.000929	0.018815	0.010649	0.002990	0.029899
11-Apr-2030	0.125115	19.337500	30.262900	4.759710	67.886223	2.537590	0.028914	0.281363	0.070021	0.005360	0.003049	0.194257	0.000925	0.018740	0.010607	0.002978	0.029780
12-Apr-2030	0.125115	19.265000	30.149500	4.741870	67.631726	2.528080	0.028805	0.280308	0.069759	0.005340	0.003037	0.193529	0.000922	0.018670	0.010567	0.002967	0.029668
13-Apr-2030	0.125115	19.196800	30.042700	4.725070	67.392248	2.519120	0.028703	0.279315	0.069512	0.005321	0.003027	0.192843	0.000918	0.018604	0.010530	0.002956	0.029563
14-Apr-2030	0.125115	19.132800	29.942600	4.709320	67.167581	2.510720	0.028608	0.278384	0.069280	0.005303	0.003017	0.192201	0.000915	0.018542	0.010495	0.002946	0.029465
15-Apr-2030	0.125115	19.080500	29.860800	4.696430	66.983907	2.503870	0.028529	0.277624	0.069090	0.005289	0.003008	0.191674	0.000913	0.018491	0.010466	0.002938	0.029384
16-Apr-2030	0.125115	19.057700	29.825100	4.690830	66.903915	2.500880	0.028495	0.277293	0.069008	0.005282	0.003005	0.191445	0.000912	0.018469	0.010454	0.002935	0.029349
17-Apr-2030	0.125115	19.036100	29.791200	4.685490	66.827990	2.498040	0.028463	0.276977	0.068929	0.005276	0.003001	0.191227	0.000911	0.018448	0.010442	0.002932	0.029316
18-Apr-2030	0.125115	19.013400	29.755800	4.679920	66.748370	2.495060	0.028429	0.276648	0.068847	0.005270	0.002998	0.191000	0.000910	0.018426	0.010429	0.002928	0.029281
19-Apr-2030	0.125115	18.989800	29.718800	4.674110	66.665516	2.491970	0.028394	0.276304	0.068762	0.005263	0.002994	0.190763	0.000909	0.018403	0.010416	0.002924	0.029245
20-Apr-2030	0.125115	18.966700	29.682700	4.668430	66.584445	2.488940	0.028359	0.275968	0.068678	0.005257	0.002990	0.190531	0.000907	0.018381	0.010404	0.002921	0.029209
21-Apr-2030	0.125115	18.946600	29.651100	4.663460	66.513788	2.486290	0.028329	0.275675	0.068605	0.005251	0.002987	0.190328	0.000906	0.018361	0.010393	0.002918	0.029178
22-Apr-2030	0.125115	18.942900	29.645500	4.662570	66.500885	2.485820	0.028324	0.275622	0.068592	0.005250	0.002987	0.190292	0.000906	0.018358	0.010391	0.002917	0.029172
23-Apr-2030	0.125115	18.939400	29.639900	4.661700	66.488562	2.485350	0.028318	0.275571	0.068579	0.005249	0.002986	0.190256	0.000906	0.018354	0.010389	0.002917	0.029167
24-Apr-2030	0.125115	18.936100	29.634800	4.660900	66.477028	2.484920	0.028314	0.275523	0.068567	0.005249	0.002985	0.190223	0.000906	0.018351	0.010387	0.002916	0.029162
25-Apr-2030	0.125115	18.933100	29.630100	4.660160	66.466490	2.484530	0.028309	0.275480	0.068556	0.005248	0.002985	0.190193	0.000906	0.018348	0.010385	0.002916	0.029157
26-Apr-2030	0.125115	18.930400	29.625900	4.659480	66.456947	2.484170	0.028305	0.275440	0.068547	0.005247	0.002985	0.190166	0.000906	0.018345	0.010384	0.002915	0.029153
27-Apr-2030	0.125115	18.927800	29.621800	4.658850	66.447861	2.483830	0.028301	0.275402	0.068537	0.005246	0.002984	0.190140	0.000906	0.018343	0.010382	0.002915	0.029149
28-Apr-2030	0.125115	18.925500	29.618100	4.658270	66.439729	2.483520	0.028298	0.275368	0.068529	0.005246	0.002984	0.190116	0.000905	0.018341	0.010381	0.002915	0.029146
29-Apr-2030	0.125115	18.923300	29.614800	4.657740	66.432053	2.483240	0.028294	0.275337	0.068521	0.005245	0.002983	0.190095	0.000905	0.018339	0.010380	0.002914	0.029142
30-Apr-2030	0.125137	18.918800	29.607700	4.656630	66.416246	2.482650	0.028288	0.275271	0.068505	0.005244	0.002983	0.190049	0.000905	0.018334	0.010378	0.002914	0.029135
1-May-2030	0.125364	18.890700	29.563800	4.649720	66.317625	2.478970	0.028246	0.274863	0.068403	0.005236	0.002978	0.189767	0.000904	0.018307	0.010362	0.002909	0.029092
2-May-2030	0.126621	18.746200	29.337600	4.614150	65.810331	2.460000	0.028030	0.272760	0.067880	0.005196	0.002956	0.188315	0.000897	0.018167	0.010283	0.002887	0.028869
3-May-2030	0.131143	18.356500	28.727700	4.518230	64.442252	2.408860	0.027447	0.267089	0.066468	0.005088	0.002894	0.184401	0.000878	0.017789	0.010069	0.002827	0.028269
4-May-2030	0.136218	18.497000	28.947500	4.552810	64.935481	2.427290	0.027657	0.269133	0.066977	0.005127	0.002916	0.185812	0.000885	0.017925	0.010146	0.002849	0.028486
5-May-2030	0.140687	18.281800	28.610800	4.499850	64.180037	2.399060	0.027335	0.266003	0.066198	0.005067	0.002882	0.183651	0.000875	0.017717	0.010028	0.002815	0.028154
6-May-2030	0.144995	18.013800	28.191300	4.433870	63.239135	2.363880	0.026934	0.262102	0.065227	0.004993	0.002840	0.180958	0.000862	0.017457	0.009881	0.002774	0.027742
7-May-2030	0.148838	17.732100	27.750600	4.364550	62.250271	2.326920	0.026513	0.258005	0.064208	0.004915	0.002796	0.178129	0.000848	0.017184	0.009727	0.002731	0.027308
8-May-2030	0.152466	17.437400	27.289300	4.292010	61.215685	2.288250	0.026073	0.253716	0.063141	0.004833	0.002749	0.175168	0.000834	0.016899	0.009565	0.002685	0.026854
9-May-2030	0.155587	17.182800	26.890800	4.229330	60.321833	2.254830	0.025692	0.250011	0.062218	0.004763	0.002709	0.172610	0.000822	0.016652	0.009425	0.002646	0.026462
10-May-2030	0.158702	17.036100	26.661200	4.193230	59.806863	2.235580	0.025473	0.247877	0.061687	0.004722	0.002686	0.171137	0.000815	0.016510	0.009345	0.002624	0.026236
11-May-2030	0.161999	16.951500	26.528800	4.172410	59.509880	2.224480	0.025346	0.246646	0.061381	0.004698	0.002673	0.170287	0.000811	0.016428	0.009298	0.002611	0.026106
12-May-2030	0.165424	16.823900	26.329100	4.140990	59.061875	2.207730	0.025155	0.244789	0.060919	0.004663	0.002652	0.169005	0.000805	0.016304	0.009228	0.002591	0.025909
13-May-2030	0.169452	16.652800	26.061400	4.098880	58.461229	2.185280	0.024899	0.242300	0.060300	0.004616	0.002626	0.167286	0.000797	0.016138	0.009135	0.002565	0.025646
14-May-2030	0.172759	16.488500	25.804200	4.058430	57.884399	2.163720	0.024654	0.239909	0.059704	0.004570	0.002600	0.165636	0.000789	0.015979	0.009044	0.002539	0.025393
15-May-2030	0.181132	16.140900	25.260200	3.972880	56.664147	2.118110	0.024134	0.234851	0.058446	0.004474	0.002545	0.162144	0.000772	0.015642	0.008854	0.002486	0.024857
16-May-2030	0.190348	15.807300	24.738200	3.890760	55.492978	2.074330	0.023635	0.229997	0.057238	0.004381	0.002492	0.158792	0.000756	0.015319	0.008671	0.002434	0.024343
17-May-2030	0.204094	15.665900	24.516900	3.855970	54.996637	2.055780	0.023424	0.227941	0.056726	0.004342	0.002470	0.157372	0.000750	0.015182	0.008593	0.002413	0.024126
18-May-2030	0.206014	15.524800	24.296100	3.821240	54.501292	2.037270	0.023213	0.225888	0.056215	0.004303	0.002448	0.155955	0.000743	0.015045	0.008516	0.002391	0.023908
19-May-2030	0.208637	15.365300	24.046500	3.781980	53.941348	2.016330	0.022974	0.223567	0.055637	0.004259	0.002423	0.154352	0.000735	0.014891	0.008428	0.002366	0.023663
20-May-2030	0.216800	14.959300	23.411100	3.682060	52.516095	1.963060	0.022367	0.217660	0.054168	0.004146	0.002359	0.150274	0.000716	0.014497	0.008206	0.002304	0.023038
21-May-2030	0.213793	14.596700	22.843700	3.592810	51.243151	1.915470	0.021825	0.212383	0.052855	0.004046	0.002301	0.146632	0.000698	0.014146	0.008007	0.002248	0.022479
22-May-2030	0.216600	14.172800	22.180200	3.488470	49.755001	1.859830	0.021191	0.206215	0.051320	0.003928	0.002235	0.142374	0.000678	0.013735	0.007774	0.002183	0.021826

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-May-2030	0.219252	13.955000	21.839200	3.434860	48.990388	1.831240	0.020865	0.203044	0.050532	0.003868	0.002200	0.140186	0.000668	0.013524	0.007655	0.002149	0.021491
24-May-2030	0.223777	13.663900	21.383700	3.363230	47.968539	1.793040	0.020430	0.198809	0.049478	0.003787	0.002154	0.137263	0.000654	0.013242	0.007495	0.002104	0.021043
25-May-2030	0.229038	13.267300	20.763100	3.265640	46.576354	1.740990	0.019837	0.193038	0.048043	0.003677	0.002092	0.133280	0.000635	0.012858	0.007277	0.002043	0.020432
26-May-2030	0.232307	12.994100	20.335400	3.198380	45.617197	1.705130	0.019429	0.189062	0.047053	0.003602	0.002049	0.130536	0.000622	0.012593	0.007128	0.002001	0.020011
27-May-2030	0.237091	12.681100	19.845500	3.121380	44.518550	1.664030	0.018960	0.184505	0.045921	0.003515	0.001999	0.127394	0.000607	0.012290	0.006956	0.001953	0.019529
28-May-2030	0.239866	12.514900	19.585400	3.080460	43.935040	1.642230	0.018712	0.182088	0.045319	0.003469	0.001973	0.125723	0.000599	0.012129	0.006865	0.001927	0.019273
29-May-2030	0.245649	12.407000	19.416400	3.053920	43.556322	1.628050	0.018550	0.180516	0.044929	0.003439	0.001956	0.124641	0.000594	0.012024	0.006806	0.001911	0.019107
30-May-2030	0.252544	12.372300	19.362000	3.045410	43.434631	1.623470	0.018498	0.180009	0.044805	0.003429	0.001951	0.124295	0.000592	0.011991	0.006786	0.001905	0.019053
31-May-2030	0.258782	12.261400	19.188400	3.018170	43.045540	1.608910	0.018332	0.178394	0.044404	0.003398	0.001933	0.123186	0.000587	0.011883	0.006726	0.001888	0.018882
1-Jun-2030	0.270975	12.156600	19.024200	2.992400	42.677733	1.595120	0.018176	0.176867	0.044025	0.003369	0.001917	0.122138	0.000582	0.011782	0.006668	0.001872	0.018721
2-Jun-2030	0.288383	12.048100	18.854300	2.965760	42.297105	1.580860	0.018013	0.175286	0.043634	0.003339	0.001900	0.121054	0.000576	0.011677	0.006609	0.001855	0.018554
3-Jun-2030	0.299641	11.898000	18.618800	2.928940	41.770681	1.561050	0.017788	0.173093	0.043099	0.003298	0.001877	0.119556	0.000569	0.011532	0.006526	0.001832	0.018323
4-Jun-2030	0.316567	11.772900	18.421700	2.898510	41.332995	1.544370	0.017599	0.171249	0.042665	0.003263	0.001858	0.118330	0.000563	0.011412	0.006457	0.001813	0.018130
5-Jun-2030	0.353863	11.552200	18.071400	2.845540	40.563777	1.514480	0.017262	0.167953	0.041941	0.003200	0.001825	0.116231	0.000552	0.011205	0.006336	0.001779	0.017792
6-Jun-2030	0.368147	11.413400	17.847100	2.813330	40.084553	1.494890	0.017044	0.165811	0.041542	0.003160	0.001807	0.115001	0.000545	0.011079	0.006258	0.001758	0.017581
7-Jun-2030	0.375140	11.241200	17.563800	2.774780	39.495820	1.469630	0.016766	0.163083	0.041118	0.003109	0.001787	0.113580	0.000536	0.010930	0.006162	0.001732	0.017321
8-Jun-2030	0.394695	11.070900	17.285900	2.735990	38.910844	1.445050	0.016495	0.160413	0.040663	0.003060	0.001766	0.112141	0.000528	0.010779	0.006067	0.001706	0.017062
9-Jun-2030	0.436507	10.875400	16.966700	2.691440	38.239224	1.416840	0.016183	0.157350	0.040143	0.003003	0.001742	0.110502	0.000518	0.010607	0.005958	0.001677	0.016765
10-Jun-2030	0.484216	10.736300	16.738200	2.660280	37.763574	1.396480	0.015959	0.155154	0.039805	0.002962	0.001726	0.109365	0.000510	0.010486	0.005880	0.001656	0.016555
11-Jun-2030	0.542940	10.552900	16.434800	2.619710	37.138557	1.369150	0.015660	0.152217	0.039375	0.002907	0.001706	0.107882	0.000501	0.010329	0.005777	0.001628	0.016278
12-Jun-2030	0.611059	10.396000	16.169800	2.586450	36.609813	1.344650	0.015395	0.149583	0.039103	0.002859	0.001692	0.106757	0.000492	0.010202	0.005689	0.001604	0.016042
13-Jun-2030	0.690144	10.221200	15.871200	2.550040	36.023401	1.316730	0.015096	0.146584	0.038850	0.002805	0.001677	0.105582	0.000483	0.010065	0.005589	0.001578	0.015781
14-Jun-2030	0.740080	10.058600	15.594500	2.515970	35.477089	1.290950	0.014819	0.143822	0.038675	0.002756	0.001663	0.104465	0.000474	0.009935	0.005497	0.001554	0.015537
15-Jun-2030	0.779970	9.885680	15.297100	2.480310	34.898460	1.263010	0.014521	0.140832	0.038424	0.002703	0.001649	0.103385	0.000464	0.009802	0.005399	0.001528	0.015278
16-Jun-2030	0.807194	9.768680	15.099200	2.455460	34.503978	1.244690	0.014323	0.138877	0.038249	0.002668	0.001638	0.102560	0.000458	0.009708	0.005333	0.001510	0.015102
17-Jun-2030	0.839368	9.631010	14.864300	2.426680	34.041700	1.222760	0.014088	0.136533	0.037936	0.002626	0.001626	0.101636	0.000450	0.009599	0.005255	0.001489	0.014894
18-Jun-2030	0.872093	9.501900	14.641900	2.400110	33.609897	1.201810	0.013864	0.134298	0.037676	0.002587	0.001616	0.100839	0.000443	0.009500	0.005181	0.001470	0.014700
19-Jun-2030	0.903260	9.389900	14.451500	2.376410	33.232637	1.184140	0.013674	0.132416	0.037454	0.002554	0.001606	0.100092	0.000437	0.009410	0.005118	0.001453	0.014530
20-Jun-2030	0.947173	9.238930	14.192900	2.344920	32.725989	1.159970	0.013415	0.129844	0.037195	0.002509	0.001593	0.099131	0.000428	0.009293	0.005033	0.001430	0.014303
21-Jun-2030	1.000971	9.101080	13.960000	2.315450	32.260420	1.138480	0.013183	0.127557	0.036902	0.002468	0.001580	0.098169	0.000421	0.009181	0.004955	0.001409	0.014094
22-Jun-2030	1.072631	8.976850	13.744400	2.290220	31.846320	1.118040	0.012967	0.125392	0.036735	0.002431	0.001570	0.097450	0.000414	0.009088	0.004884	0.001391	0.013907
23-Jun-2030	1.145190	8.849320	13.524900	2.263780	31.418998	1.097480	0.012748	0.123218	0.036526	0.002393	0.001560	0.096684	0.000407	0.008990	0.004812	0.001371	0.013715
24-Jun-2030	1.198438	8.770360	13.388600	2.247550	31.155000	1.084650	0.012611	0.121869	0.036390	0.002370	0.001553	0.096218	0.000402	0.008929	0.004767	0.001359	0.013595
25-Jun-2030	1.289334	8.653280	13.185700	2.223610	30.764066	1.065500	0.012409	0.119849	0.036218	0.002335	0.001544	0.095552	0.000396	0.008841	0.004701	0.001342	0.013419
26-Jun-2030	1.379935	8.517660	12.950800	2.195690	30.310448	1.043440	0.012175	0.117523	0.036022	0.002296	0.001534	0.094796	0.000388	0.008739	0.004624	0.001321	0.013214
27-Jun-2030	1.484701	8.404840	12.754000	2.172740	29.934229	1.025850	0.011980	0.115659	0.035876	0.002264	0.001525	0.094215	0.000382	0.008656	0.004560	0.001304	0.013044
28-Jun-2030	1.579682	8.338960	12.638600	2.159480	29.715122	1.013860	0.011865	0.114414	0.035796	0.002245	0.001521	0.093883	0.000378	0.008608	0.004523	0.001294	0.012945
29-Jun-2030	1.679138	8.235940	12.459000	2.138510	29.371526	0.997159	0.011686	0.112634	0.035651	0.002215	0.001513	0.093346	0.000372	0.008532	0.004464	0.001279	0.012789
30-Jun-2030	1.822859	8.101440	12.224100	2.111160	28.923053	0.974784	0.011453	0.110297	0.035486	0.002177	0.001503	0.092668	0.000365	0.008433	0.004388	0.001259	0.012587
1-Jul-2030	3.894588	6.897000	10.179700	1.846670	24.826396	0.785421	0.009384	0.090028	0.033054	0.001817	0.001389	0.084307	0.000299	0.007508	0.003718	0.001075	0.010751
2-Jul-2030	5.244375	6.900730	10.186400	1.840770	24.811414	0.786972	0.009387	0.090075	0.033128	0.001826	0.001384	0.084432	0.000299	0.007532	0.003727	0.001075	0.010754
3-Jul-2030	6.281273	6.813540	10.022000	1.825640	24.531395	0.770855	0.009227	0.088479	0.033049	0.001808	0.001382	0.084551	0.000294	0.007480	0.003677	0.001062	0.010618
4-Jul-2030	7.701004	6.708230	9.823660	1.809180	24.200654	0.751264	0.009037	0.086583	0.032926	0.001786	0.001379	0.084694	0.000287	0.007411	0.003614	0.001045	0.010454
5-Jul-2030	10.258614	6.968760	10.295200	1.848810	25.014393	0.798642	0.009513	0.091341	0.033334	0.001870	0.001385	0.085671	0.000303	0.007614	0.003773	0.001085	0.010847
6-Jul-2030	11.057256	6.738400	9.872860	1.814370	24.297360	0.756269	0.009091	0.087119	0.032958	0.001803	0.001381	0.085177	0.000289	0.007440	0.003633	0.001050	0.010495
7-Jul-2030	11.115779	6.846410	10.068000	1.831130	24.636079	0.775818	0.009288	0.089081	0.033122	0.001838	0.001383	0.085597	0.000296	0.007523	0.003699	0.001066	0.010658
8-Jul-2030	12.719862	7.208070	10.727600	1.886400	25.766746	0.841992	0.009948	0.095689	0.033645	0.001948	0.001391	0.086644	0.000318	0.007795	0.003918	0.001121	0.011206
9-Jul-2030	14.289019	7.035050	10.411300	1.861090	25.230488	0.810119	0.009630	0.092504	0.033347	0.001896	0.001388	0.086194	0.000307	0.007661	0.003812	0.001094	0.010942
10-Jul-2030	16.106823	7.565320	11.376300	1.942260	26.888831	0.906956	0.010598	0.102184	0.034127	0.002060	0.001399	0.087866	0.000339	0.008062	0.004134	0.001174	0.011743
11-Jul-2030	15.630815	8.037640	12.239700	2.014350	28.365080	0.993581	0.011462	0.110827	0.034795	0.002202	0.001409	0.089137	0.000368	0.008414	0.004421	0.001246	0.012459
12-Jul-2030	14.723044	7.912670	12.009700	1.995780	27.976559	0.970423	0.011232	0.108524	0.034620	0.002166	0.001407	0.088882	0.000360	0.008322	0.004345	0.001227	0.012269
13-Jul-2030	15.286590	7.254300	10.809700	1.896490	25.923733	0.849837	0.010027	0.096465	0.033595	0.001964	0.001393	0.086924	0.000320	0.007820	0.003943	0.001127	0.011270

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Jul-2030	15.663069	7.200050	10.711100	1.889860	25.760968	0.839752	0.009926	0.095444	0.033425	0.001948	0.001393	0.086767	0.000317	0.007770	0.003908	0.001119	0.011185
15-Jul-2030	15.919744	7.254690	10.799600	1.899000	25.935043	0.848629	0.010022	0.096397	0.033574	0.001977	0.001396	0.087639	0.000320	0.007828	0.003943	0.001126	0.011262
16-Jul-2030	14.921588	7.295960	10.879500	1.905380	26.064367	0.856593	0.010098	0.097164	0.033582	0.001984	0.001396	0.087430	0.000323	0.007850	0.003967	0.001133	0.011327
17-Jul-2030	13.942250	7.335010	10.950500	1.911920	26.188807	0.863657	0.010169	0.097867	0.033612	0.001996	0.001397	0.087570	0.000325	0.007877	0.003990	0.001138	0.011385
18-Jul-2030	13.361663	7.379240	11.031200	1.919370	26.329928	0.871664	0.010249	0.098662	0.033642	0.002009	0.001398	0.087701	0.000328	0.007907	0.004016	0.001145	0.011451
19-Jul-2030	12.485465	7.452510	11.163500	1.931090	26.561146	0.884905	0.010382	0.099991	0.033730	0.002034	0.001400	0.088014	0.000332	0.007962	0.004060	0.001156	0.011560
20-Jul-2030	13.908256	7.551160	11.343900	1.946710	26.871798	0.902911	0.010561	0.101782	0.033845	0.002063	0.001402	0.088267	0.000338	0.008032	0.004119	0.001171	0.011709
21-Jul-2030	14.292567	7.706340	11.617200	1.972420	27.365157	0.930269	0.010841	0.104563	0.034061	0.002122	0.001408	0.089676	0.000347	0.008156	0.004213	0.001194	0.011935
22-Jul-2030	14.644631	7.636810	11.493900	1.961630	27.147107	0.917851	0.010714	0.103304	0.033932	0.002097	0.001405	0.088920	0.000343	0.008099	0.004170	0.001183	0.011832
23-Jul-2030	14.994967	7.689610	11.593100	1.970160	27.314075	0.927689	0.010810	0.104266	0.033959	0.002109	0.001406	0.088904	0.000347	0.008131	0.004201	0.001191	0.011913
24-Jul-2030	14.666538	7.865290	11.908600	1.997860	27.866817	0.959336	0.011129	0.107451	0.034213	0.002169	0.001411	0.089730	0.000357	0.008267	0.004308	0.001217	0.012175
25-Jul-2030	14.965750	7.741690	11.686700	1.979360	27.482004	0.936966	0.010904	0.105193	0.033985	0.002127	0.001408	0.089160	0.000350	0.008167	0.004232	0.001199	0.011989
26-Jul-2030	14.181033	7.807680	11.807300	1.990050	27.690803	0.948994	0.011023	0.106389	0.034048	0.002147	0.001410	0.089342	0.000354	0.008213	0.004271	0.001209	0.012088
27-Jul-2030	13.891696	8.032800	12.218100	2.024620	28.395287	0.990184	0.011434	0.110499	0.034363	0.002215	0.001414	0.089986	0.000367	0.008381	0.004408	0.001243	0.012429
28-Jul-2030	13.154346	8.205360	12.533200	2.051020	28.934884	1.021810	0.011750	0.113657	0.034607	0.002267	0.001418	0.090473	0.000378	0.008510	0.004512	0.001269	0.012690
29-Jul-2030	13.664360	8.037480	12.224800	2.027470	28.418709	0.990649	0.011440	0.110543	0.034280	0.002219	0.001415	0.090153	0.000368	0.008377	0.004408	0.001243	0.012430
30-Jul-2030	13.579065	8.041820	12.232800	2.028330	28.433087	0.991407	0.011447	0.110617	0.034280	0.002220	0.001416	0.090156	0.000368	0.008380	0.004411	0.001244	0.012437
31-Jul-2030	13.538704	8.239010	12.592600	2.058490	29.049670	1.027520	0.011807	0.114224	0.034558	0.002280	0.001420	0.090724	0.000380	0.008527	0.004531	0.001274	0.012736
1-Aug-2030	14.758342	8.383000	12.855200	2.080730	29.500797	1.053830	0.012070	0.116852	0.034760	0.002324	0.001423	0.091145	0.000389	0.008635	0.004618	0.001295	0.012954
2-Aug-2030	14.867212	8.323020	12.745200	2.073930	29.323025	1.042540	0.011957	0.115698	0.034577	0.002307	0.001422	0.091060	0.000385	0.008579	0.004579	0.001286	0.012857
3-Aug-2030	15.163342	8.236380	12.586000	2.061500	29.055498	1.026490	0.011796	0.114091	0.034409	0.002283	0.001421	0.090917	0.000380	0.008512	0.004525	0.001272	0.012724
4-Aug-2030	15.803963	8.433270	12.947000	2.091620	29.671166	1.062660	0.012156	0.117688	0.034676	0.002341	0.001425	0.091354	0.000392	0.008656	0.004645	0.001302	0.013023
5-Aug-2030	14.594433	8.358840	12.813100	2.080960	29.441417	1.049110	0.012018	0.116309	0.034513	0.002316	0.001423	0.091038	0.000387	0.008594	0.004598	0.001291	0.012910
6-Aug-2030	13.902210	8.366160	12.826800	2.083020	29.468178	1.050390	0.012029	0.116418	0.034465	0.002319	0.001424	0.091075	0.000388	0.008594	0.004602	0.001292	0.012920
7-Aug-2030	14.837302	8.434760	12.953700	2.094250	29.685717	1.062980	0.012153	0.117651	0.034509	0.002338	0.001425	0.091181	0.000392	0.008639	0.004642	0.001302	0.013023
8-Aug-2030	15.422646	8.903890	13.805400	2.168370	31.162361	1.148270	0.013003	0.126139	0.035108	0.002488	0.001436	0.092889	0.000420	0.008984	0.004925	0.001372	0.013725
9-Aug-2030	16.266869	8.690900	13.418100	2.135470	30.495043	1.109400	0.012615	0.122266	0.034796	0.002421	0.001431	0.092171	0.000407	0.008825	0.004796	0.001340	0.013404
10-Aug-2030	16.846415	9.191490	14.332200	2.211930	32.059878	1.201130	0.013529	0.131416	0.035504	0.002573	0.001441	0.093582	0.000438	0.009199	0.005099	0.001416	0.014162
11-Aug-2030	16.484254	9.199850	14.346200	2.214060	32.089525	1.202440	0.013542	0.131538	0.035491	0.002577	0.001442	0.093703	0.000438	0.009204	0.005104	0.001417	0.014173
12-Aug-2030	17.399888	9.358570	14.633500	2.239930	32.592381	1.231120	0.013827	0.134382	0.035657	0.002629	0.001446	0.094377	0.000448	0.009318	0.005199	0.001441	0.014409
13-Aug-2030	17.508592	9.221650	14.385600	2.219400	32.165949	1.206190	0.013576	0.131875	0.035398	0.002586	0.001443	0.093865	0.000440	0.009210	0.005115	0.001420	0.014201
14-Aug-2030	17.002063	9.033610	14.042300	2.191420	31.581192	1.171640	0.013231	0.128417	0.035105	0.002529	0.001439	0.093346	0.000428	0.009066	0.005000	0.001392	0.013915
15-Aug-2030	16.447177	9.211930	14.371700	2.219550	32.142296	1.204540	0.013555	0.131657	0.035255	0.002579	0.001443	0.093638	0.000439	0.009188	0.005106	0.001419	0.014185
16-Aug-2030	16.136777	9.143720	14.248600	2.209940	31.932402	1.192050	0.013429	0.130389	0.035097	0.002557	0.001441	0.093374	0.000435	0.009131	0.005064	0.001408	0.014081
17-Aug-2030	16.005492	9.019900	14.022600	2.191490	31.547246	1.169290	0.013201	0.128113	0.034911	0.002519	0.001439	0.093021	0.000428	0.009037	0.004988	0.001389	0.013894
18-Aug-2030	15.803727	9.841470	15.522300	2.316580	34.113827	1.319840	0.014703	0.143136	0.036097	0.002769	0.001456	0.095353	0.000478	0.009653	0.005487	0.001514	0.015138
19-Aug-2030	15.290271	9.016840	14.019300	2.193210	31.546688	1.168670	0.013190	0.127992	0.034753	0.002517	0.001439	0.092939	0.000428	0.009020	0.004984	0.001388	0.013885
20-Aug-2030	14.776019	9.078580	14.131900	2.203460	31.743063	1.179860	0.013301	0.129092	0.034801	0.002536	0.001441	0.093141	0.000431	0.009062	0.005020	0.001398	0.013976
21-Aug-2030	14.664350	9.470830	14.847600	2.263510	32.969797	1.251660	0.014016	0.136253	0.035354	0.002656	0.001449	0.094281	0.000455	0.009355	0.005258	0.001457	0.014570
22-Aug-2030	14.690775	10.035300	15.878300	2.349870	34.734909	1.355080	0.015047	0.146564	0.036145	0.002827	0.001460	0.095878	0.000490	0.009776	0.005600	0.001542	0.015424
23-Aug-2030	14.822808	10.055900	15.913500	2.354250	34.804384	1.358490	0.015080	0.146884	0.036145	0.002838	0.001461	0.096145	0.000491	0.009789	0.005612	0.001545	0.015452
24-Aug-2030	15.218148	9.559740	15.008200	2.279650	33.258269	1.267480	0.014171	0.137782	0.035370	0.002687	0.001451	0.094724	0.000461	0.009412	0.005310	0.001470	0.014698
25-Aug-2030	15.141590	9.939650	15.701300	2.337970	34.447067	1.337010	0.014863	0.144710	0.035898	0.002803	0.001459	0.095845	0.000484	0.009695	0.005540	0.001527	0.015273
26-Aug-2030	14.228669	9.161900	14.283400	2.221540	32.025566	1.194400	0.013437	0.130430	0.034649	0.002566	0.001444	0.093577	0.000436	0.009099	0.005065	0.001409	0.014092
27-Aug-2030	13.951748	9.273580	14.487200	2.238990	32.376290	1.214790	0.013640	0.132456	0.034793	0.002600	0.001446	0.093900	0.000443	0.009181	0.005132	0.001426	0.014260
28-Aug-2030	13.657346	9.613260	15.107500	2.290780	33.437742	1.277040	0.014260	0.138668	0.035283	0.002702	0.001453	0.094847	0.000464	0.009435	0.005338	0.001478	0.014775
29-Aug-2030	13.460750	9.545140	14.983000	2.281890	33.231038	1.264350	0.014131	0.137367	0.035117	0.002683	0.001452	0.094712	0.000460	0.009377	0.005295	0.001467	0.014669
30-Aug-2030	13.626421	9.758620	15.371900	2.315740	33.903491	1.303250	0.014517	0.141214	0.035351	0.002750	0.001457	0.095419	0.000473	0.009531	0.005424	0.001499	0.014987
31-Aug-2030	13.881052	9.929380	15.682700	2.342290	34.439212	1.334390	0.014826	0.144311	0.035567	0.002804	0.001460	0.095978	0.000483	0.009658	0.005527	0.001524	0.015244
1-Sep-2030	12.795617	9.771840	15.396700	2.318700	33.948691	1.305590	0.014538	0.141428	0.035313	0.002754	0.001457	0.095433	0.000474	0.009536	0.005431	0.001501	0.015007
2-Sep-2030	12.111113	9.949820	15.721300	2.346210	34.506393	1.338090	0.014862	0.144667	0.035559	0.002808	0.001461	0.095949	0.000484	0.009668	0.005538	0.001528	0.015276
3-Sep-2030	11.924758	10.345500	16.443700	2.406740	35.743669	1.410630	0.015584	0.151892	0.036089	0.002929	0.001469	0.097118	0.000509	0.009963	0.005778	0.001587	0.015873

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4-Sep-2030	11.708233	9.531680	14.957700	2.283910	33.205746	1.261390	0.014093	0.136971	0.034838	0.002685	0.001452	0.094907	0.000459	0.009347	0.005283	0.001464	0.014637
5-Sep-2030	11.384417	10.311300	16.381200	2.402510	35.640852	1.404300	0.015519	0.151234	0.035965	0.002921	0.001468	0.097101	0.000507	0.009932	0.005757	0.001582	0.015818
6-Sep-2030	11.250827	10.168700	16.122100	2.381230	35.197149	1.378330	0.015258	0.148619	0.035718	0.002879	0.001465	0.096716	0.000498	0.009821	0.005670	0.001560	0.015600
7-Sep-2030	11.386906	10.244900	16.262700	2.392900	35.435478	1.392470	0.015398	0.150019	0.035790	0.002901	0.001466	0.096864	0.000503	0.009874	0.005716	0.001571	0.015715
8-Sep-2030	10.911125	9.678040	15.227600	2.307340	33.667692	1.288570	0.014359	0.139627	0.034913	0.002732	0.001454	0.095370	0.000468	0.009445	0.005371	0.001485	0.014853
9-Sep-2030	10.258869	10.074100	15.951800	2.367360	34.903816	1.361310	0.015085	0.146892	0.035491	0.002851	0.001462	0.096421	0.000492	0.009742	0.005611	0.001545	0.015454
10-Sep-2030	10.050366	10.159000	16.106700	2.380350	35.169304	1.376830	0.015240	0.148441	0.035612	0.002877	0.001464	0.096643	0.000497	0.009805	0.005663	0.001558	0.015583
11-Sep-2030	10.163423	10.485700	16.703100	2.430160	36.190192	1.436680	0.015837	0.154418	0.036090	0.002975	0.001471	0.097561	0.000517	0.010051	0.005861	0.001608	0.016078
12-Sep-2030	10.210475	10.515800	16.758800	2.434730	36.284171	1.442310	0.015893	0.154976	0.036123	0.002984	0.001471	0.097621	0.000519	0.010072	0.005879	0.001612	0.016124
13-Sep-2030	9.686754	10.051300	15.913500	2.364480	34.835025	1.357520	0.015045	0.146486	0.035381	0.002844	0.001461	0.096262	0.000491	0.009716	0.005597	0.001542	0.015418
14-Sep-2030	9.404522	10.379400	16.513900	2.414690	35.861055	1.417880	0.015645	0.152484	0.035811	0.002945	0.001467	0.097198	0.000511	0.009957	0.005796	0.001591	0.015913
15-Sep-2030	9.664419	10.017600	15.854100	2.359780	34.731521	1.351600	0.014983	0.145868	0.035262	0.002834	0.001459	0.096116	0.000489	0.009684	0.005575	0.001536	0.015364
16-Sep-2030	9.608061	10.453700	16.650200	2.426140	36.093733	1.431520	0.015781	0.153849	0.035900	0.002966	0.001468	0.097350	0.000516	0.010012	0.005840	0.001603	0.016025
17-Sep-2030	9.564616	10.620700	16.955100	2.451710	36.616030	1.462160	0.016086	0.156903	0.036133	0.003018	0.001472	0.097859	0.000526	0.010136	0.005942	0.001628	0.016278
18-Sep-2030	9.214265	10.284300	16.341300	2.400820	35.566474	1.400540	0.015471	0.150746	0.035621	0.002916	0.001464	0.096921	0.000505	0.009881	0.005737	0.001577	0.015767
19-Sep-2030	8.890732	10.613000	16.941900	2.450830	36.593179	1.460840	0.016073	0.156769	0.036102	0.003016	0.001471	0.097825	0.000525	0.010128	0.005937	0.001627	0.016266
20-Sep-2030	8.444412	10.687900	17.079700	2.462250	36.827232	1.474720	0.016210	0.158147	0.036188	0.003038	0.001472	0.098000	0.000530	0.010182	0.005982	0.001638	0.016379
21-Sep-2030	8.262461	10.912500	17.490300	2.496360	37.528523	1.516000	0.016621	0.162259	0.036491	0.003107	0.001477	0.098627	0.000544	0.010348	0.006118	0.001672	0.016718
22-Sep-2030	7.961573	11.490700	18.546400	2.584480	39.335167	1.622050	0.017678	0.172834	0.037303	0.003283	0.001488	0.100266	0.000579	0.010781	0.006470	0.001759	0.017593
23-Sep-2030	7.800344	11.313500	18.223300	2.557770	38.782706	1.589610	0.017353	0.169586	0.037018	0.003229	0.001484	0.099773	0.000568	0.010646	0.006362	0.001732	0.017323
24-Sep-2030	7.572491	11.257200	18.121000	2.549410	38.607699	1.579340	0.017251	0.168556	0.036922	0.003212	0.001483	0.099601	0.000565	0.010601	0.006327	0.001724	0.017237
25-Sep-2030	7.433826	11.006400	17.665000	2.511410	37.824967	1.533580	0.016793	0.163979	0.036524	0.003135	0.001478	0.098819	0.000550	0.010409	0.006174	0.001686	0.016857
26-Sep-2030	7.197451	10.656000	17.026600	2.458280	36.731229	1.469530	0.016153	0.157577	0.035993	0.003029	0.001470	0.097799	0.000528	0.010143	0.005961	0.001633	0.016326
27-Sep-2030	6.375979	10.570100	16.871400	2.445420	36.463779	1.454010	0.015997	0.156014	0.035829	0.003003	0.001468	0.097522	0.000523	0.010074	0.005909	0.001619	0.016195
28-Sep-2030	5.848590	10.772000	17.240300	2.476240	37.094840	1.491020	0.016366	0.159707	0.036116	0.003063	0.001472	0.098073	0.000535	0.010225	0.006031	0.001650	0.016501
29-Sep-2030	5.431549	10.622800	16.970000	2.453930	36.630415	1.463930	0.016094	0.156980	0.035844	0.003018	0.001468	0.097607	0.000526	0.010107	0.005940	0.001627	0.016273
30-Sep-2030	4.974681	10.757300	17.215500	2.474340	37.050310	1.488540	0.016344	0.159478	0.036093	0.003057	0.001472	0.097916	0.000535	0.010210	0.006022	0.001648	0.016480
1-Oct-2030	4.154643	10.434800	16.627600	2.425460	36.043740	1.429580	0.015751	0.153551	0.035553	0.002961	0.001464	0.097040	0.000515	0.009964	0.005825	0.001599	0.015988
2-Oct-2030	3.306770	10.351100	16.475100	2.412490	35.781331	1.414390	0.015599	0.152032	0.035426	0.002937	0.001462	0.096853	0.000510	0.009901	0.005775	0.001586	0.015861
3-Oct-2030	2.508938	10.322400	16.423000	2.407840	35.690518	1.409210	0.015548	0.151523	0.035396	0.002928	0.001461	0.096780	0.000508	0.009880	0.005758	0.001582	0.015818
4-Oct-2030	1.521495	10.292700	16.368300	2.403360	35.597908	1.403740	0.015494	0.150983	0.035358	0.002919	0.001461	0.096692	0.000506	0.009859	0.005740	0.001577	0.015773
5-Oct-2030	0.812743	10.260600	16.310000	2.398240	35.496671	1.397930	0.015437	0.150412	0.035328	0.002909	0.001460	0.096584	0.000504	0.009835	0.005720	0.001573	0.015725
6-Oct-2030	0.622822	10.257600	16.304500	2.397780	35.487285	1.397370	0.015432	0.150359	0.035330	0.002908	0.001460	0.096561	0.000504	0.009834	0.005719	0.001572	0.015721
7-Oct-2030	0.132998	10.229100	16.253000	2.393100	35.396849	1.392310	0.015381	0.149855	0.035287	0.002900	0.001459	0.096476	0.000503	0.009812	0.005702	0.001568	0.015678
8-Oct-2030	0.081295	10.187700	16.179400	2.386020	35.264317	1.385190	0.015309	0.149139	0.035206	0.002889	0.001457	0.096394	0.000500	0.009780	0.005677	0.001561	0.015615
9-Oct-2030	0.104918	10.173200	16.152300	2.383880	35.219298	1.382540	0.015282	0.148867	0.035177	0.002886	0.001456	0.096425	0.000499	0.009769	0.005668	0.001559	0.015591
10-Oct-2030	0.090931	10.159400	16.127000	2.381730	35.175986	1.380030	0.015257	0.148617	0.035142	0.002883	0.001456	0.096404	0.000498	0.009758	0.005660	0.001557	0.015570
11-Oct-2030	0.072623	10.129900	16.073600	2.376990	35.082805	1.374790	0.015204	0.148092	0.035092	0.002875	0.001455	0.096327	0.000497	0.009736	0.005642	0.001552	0.015525
12-Oct-2030	0.068454	10.114800	16.047500	2.374100	35.033199	1.372310	0.015179	0.147843	0.035067	0.002870	0.001454	0.096200	0.000496	0.009724	0.005633	0.001550	0.015502
13-Oct-2030	0.045435	10.129100	16.074100	2.376210	35.077595	1.375000	0.015205	0.148107	0.035080	0.002874	0.001454	0.096215	0.000497	0.009734	0.005642	0.001552	0.015524
14-Oct-2030	0.029408	10.116900	16.052500	2.374030	35.038155	1.372880	0.015184	0.147899	0.035072	0.002869	0.001454	0.096134	0.000496	0.009725	0.005635	0.001551	0.015506
15-Oct-2030	0.024349	10.098100	16.019100	2.370850	34.978116	1.369670	0.015152	0.147572	0.035029	0.002865	0.001452	0.096114	0.000495	0.009710	0.005624	0.001548	0.015477
16-Oct-2030	0.029546	10.112300	16.042900	2.373730	35.025433	1.371840	0.015174	0.147798	0.035067	0.002869	0.001454	0.096192	0.000496	0.009722	0.005632	0.001550	0.015499
17-Oct-2030	0.034781	10.194300	16.171700	2.393370	35.311065	1.382720	0.015296	0.148980	0.035365	0.002892	0.001466	0.096994	0.000500	0.009802	0.005677	0.001562	0.015625
18-Oct-2030	0.038394	10.262800	16.277500	2.410400	35.552239	1.391490	0.015395	0.149942	0.035633	0.002911	0.001478	0.097725	0.000503	0.009871	0.005715	0.001573	0.015730
19-Oct-2030	0.039817	10.325700	16.377400	2.425160	35.770082	1.399990	0.015490	0.150863	0.035852	0.002929	0.001487	0.098319	0.000506	0.009931	0.005750	0.001583	0.015827
20-Oct-2030	0.041773	10.352400	16.418000	2.431990	35.864878	1.403260	0.015528	0.151229	0.035964	0.002936	0.001491	0.098616	0.000507	0.009959	0.005765	0.001587	0.015868
21-Oct-2030	0.042135	10.295500	16.327000	2.418850	35.668688	1.395400	0.015442	0.150388	0.035778	0.002919	0.001484	0.098086	0.000504	0.009905	0.005733	0.001578	0.015781
22-Oct-2030	0.039312	10.322700	16.370400	2.425190	35.762714	1.399120	0.015483	0.150788	0.035871	0.002927	0.001487	0.098341	0.000506	0.009931	0.005748	0.001582	0.015823
23-Oct-2030	0.036786	10.354000	16.420000	2.432550	35.871179	1.403360	0.015530	0.151244	0.035979	0.002936	0.001492	0.098645	0.000507	0.009961	0.005765	0.001587	0.015871
24-Oct-2030	0.034734	10.389700	16.476700	2.440880	35.994625	1.408220	0.015583	0.151768	0.036101	0.002946	0.001497	0.098992	0.000509	0.009995	0.005785	0.001593	0.015925
25-Oct-2030	0.033089	10.437700	16.549100	2.453360	36.165873	1.414100	0.015650	0.152415	0.036275	0.002962	0.001505	0.099599	0.000511	0.010044	0.005811	0.001600	0.015998

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
26-Oct-2030	0.032701	10.472800	16.606500	2.461060	36.285227	1.419150	0.015705	0.152952	0.036393	0.002971	0.001510	0.099861	0.000513	0.010077	0.005831	0.001605	0.016052
27-Oct-2030	0.033267	10.509600	16.666500	2.469150	36.410431	1.424430	0.015763	0.153514	0.036515	0.002981	0.001514	0.100170	0.000515	0.010111	0.005852	0.001611	0.016109
28-Oct-2030	0.034087	10.554400	16.737100	2.479810	36.566194	1.430420	0.015829	0.154163	0.036674	0.002993	0.001521	0.100581	0.000517	0.010154	0.005877	0.001618	0.016178
29-Oct-2030	0.034269	10.592400	16.797600	2.488720	36.697772	1.435600	0.015886	0.154720	0.036806	0.003004	0.001527	0.100940	0.000519	0.010191	0.005898	0.001624	0.016236
30-Oct-2030	0.033778	10.628800	16.855300	2.497280	36.823913	1.440520	0.015941	0.155251	0.036933	0.003014	0.001532	0.101287	0.000521	0.010226	0.005918	0.001629	0.016292
31-Oct-2030	0.032199	10.662800	16.909500	2.505200	36.941425	1.445180	0.015992	0.155752	0.037049	0.003024	0.001537	0.101603	0.000522	0.010258	0.005937	0.001634	0.016344
1-Nov-2030	0.029825	10.703600	16.973700	2.514900	37.083247	1.450650	0.016053	0.156341	0.037188	0.003036	0.001544	0.102260	0.000524	0.010298	0.005960	0.001641	0.016406
2-Nov-2030	0.028349	10.738800	17.028700	2.523430	37.206268	1.455300	0.016105	0.156842	0.037306	0.003047	0.001548	0.102461	0.000526	0.010332	0.005979	0.001646	0.016459
3-Nov-2030	0.027713	10.763300	17.068200	2.528940	37.290135	1.458760	0.016142	0.157210	0.037384	0.003054	0.001551	0.102694	0.000527	0.010355	0.005993	0.001650	0.016497
4-Nov-2030	0.027124	10.791800	17.113900	2.535470	37.388190	1.462720	0.016185	0.157633	0.037479	0.003062	0.001555	0.102872	0.000529	0.010382	0.006009	0.001654	0.016540
5-Nov-2030	0.026828	10.822500	17.163100	2.542600	37.494209	1.466950	0.016232	0.158088	0.037584	0.003070	0.001559	0.103145	0.000530	0.010411	0.006026	0.001659	0.016588
6-Nov-2030	0.026704	10.854700	17.214500	2.550070	37.605374	1.471370	0.016281	0.158562	0.037694	0.003079	0.001564	0.103437	0.000532	0.010442	0.006044	0.001664	0.016637
7-Nov-2030	0.026491	10.889900	17.270400	2.558340	37.727324	1.476140	0.016334	0.159077	0.037816	0.003089	0.001569	0.103937	0.000533	0.010475	0.006064	0.001669	0.016691
8-Nov-2030	0.026264	10.931300	17.332800	2.569080	37.874928	1.481210	0.016391	0.159635	0.037966	0.003103	0.001576	0.104306	0.000535	0.010517	0.006086	0.001675	0.016753
9-Nov-2030	0.026280	10.966600	17.390700	2.577160	37.996345	1.486300	0.016447	0.160178	0.038088	0.003112	0.001581	0.104636	0.000537	0.010550	0.006106	0.001681	0.016808
10-Nov-2030	0.026319	11.008900	17.457600	2.586790	38.141625	1.492010	0.016510	0.160793	0.038235	0.003124	0.001586	0.105005	0.000539	0.010591	0.006130	0.001687	0.016873
11-Nov-2030	0.026424	11.047300	17.518600	2.595760	38.274448	1.497240	0.016568	0.161356	0.038367	0.003135	0.001592	0.105384	0.000541	0.010628	0.006151	0.001693	0.016932
12-Nov-2030	0.026652	11.088500	17.584100	2.605710	38.418298	1.502860	0.016630	0.161961	0.038509	0.003147	0.001599	0.105853	0.000543	0.010667	0.006174	0.001699	0.016995
13-Nov-2030	0.026588	11.133300	17.654900	2.618280	38.581927	1.508910	0.016697	0.162613	0.038688	0.003162	0.001608	0.106490	0.000545	0.010715	0.006199	0.001706	0.017063
14-Nov-2030	0.026228	11.180100	17.722700	2.628970	38.742808	1.514140	0.016759	0.163204	0.038849	0.003175	0.001614	0.106984	0.000547	0.010760	0.006224	0.001713	0.017133
15-Nov-2030	0.026046	11.204300	17.760200	2.634930	38.827779	1.517270	0.016794	0.163544	0.038935	0.003182	0.001617	0.107129	0.000549	0.010784	0.006237	0.001717	0.017170
16-Nov-2030	0.026029	11.236100	17.811900	2.642830	38.939716	1.521790	0.016843	0.164026	0.039051	0.003191	0.001623	0.107485	0.000550	0.010816	0.006255	0.001722	0.017219
17-Nov-2030	0.026165	11.291100	17.893100	2.656920	39.135073	1.528170	0.016918	0.164743	0.039259	0.003208	0.001632	0.108151	0.000553	0.010872	0.006285	0.001730	0.017302
18-Nov-2030	0.026436	11.333800	17.958600	2.667620	39.285758	1.533580	0.016979	0.165337	0.039418	0.003221	0.001639	0.108636	0.000555	0.010915	0.006308	0.001737	0.017367
19-Nov-2030	0.026662	11.377500	18.026100	2.678430	39.439392	1.539190	0.017042	0.165950	0.039578	0.003234	0.001646	0.109118	0.000557	0.010958	0.006332	0.001743	0.017434
20-Nov-2030	0.026650	11.410200	18.090700	2.683220	39.540769	1.545850	0.017108	0.166608	0.039650	0.003240	0.001649	0.109255	0.000559	0.010979	0.006353	0.001749	0.017487
21-Nov-2030	0.026466	11.464100	18.175400	2.694980	39.723785	1.553030	0.017188	0.167385	0.039826	0.003255	0.001654	0.109486	0.000561	0.011032	0.006383	0.001757	0.017569
22-Nov-2030	0.026246	11.479500	18.200000	2.698530	39.776858	1.555150	0.017211	0.167613	0.039878	0.003259	0.001657	0.109720	0.000562	0.011046	0.006391	0.001759	0.017593
23-Nov-2030	0.026168	11.510700	18.249600	2.705820	39.884785	1.559400	0.017258	0.168069	0.039986	0.003268	0.001660	0.109946	0.000564	0.011076	0.006409	0.001764	0.017641
24-Nov-2030	0.026136	11.541700	18.296600	2.713800	39.995053	1.563220	0.017302	0.168492	0.040103	0.003277	0.001666	0.110291	0.000565	0.011108	0.006426	0.001769	0.017688
25-Nov-2030	0.026114	11.584400	18.366600	2.723160	40.140220	1.569390	0.017368	0.169147	0.040242	0.003289	0.001671	0.110648	0.000567	0.011147	0.006450	0.001775	0.017754
26-Nov-2030	0.026029	11.620400	18.422200	2.732140	40.267091	1.574130	0.017421	0.169658	0.040374	0.003299	0.001677	0.111025	0.000569	0.011183	0.006469	0.001781	0.017808
27-Nov-2030	0.025831	11.674500	18.503400	2.746260	40.460325	1.580550	0.017496	0.170376	0.040578	0.003316	0.001686	0.111720	0.000571	0.011239	0.006499	0.001789	0.017890
28-Nov-2030	0.025672	11.715700	18.571300	2.755130	40.599728	1.586580	0.017561	0.171014	0.040711	0.003327	0.001691	0.112010	0.000574	0.011276	0.006522	0.001795	0.017954
29-Nov-2030	0.025614	11.760600	18.645000	2.764850	40.751871	1.593110	0.017631	0.171706	0.040857	0.003339	0.001697	0.112333	0.000576	0.011318	0.006548	0.001802	0.018023
30-Nov-2030	0.025555	11.805700	18.716900	2.775310	40.907559	1.599290	0.017699	0.172370	0.041011	0.003352	0.001703	0.112748	0.000578	0.011361	0.006573	0.001809	0.018092
1-Dec-2030	0.025453	11.831300	18.756500	2.781610	40.997426	1.602600	0.017737	0.172731	0.041102	0.003359	0.001707	0.113043	0.000579	0.011386	0.006587	0.001813	0.018131
2-Dec-2030	0.025375	11.884100	18.840300	2.794020	41.180372	1.609770	0.017816	0.173503	0.041285	0.003374	0.001715	0.113537	0.000582	0.011437	0.006616	0.001821	0.018212
3-Dec-2030	0.025373	11.928700	18.911700	2.804270	41.333948	1.615930	0.017884	0.174164	0.041436	0.003387	0.001721	0.113935	0.000584	0.011479	0.006641	0.001828	0.018281
4-Dec-2030	0.025408	11.963400	18.967000	2.812460	41.454320	1.620690	0.017936	0.174675	0.041558	0.003397	0.001726	0.114269	0.000586	0.011513	0.006661	0.001833	0.018334
5-Dec-2030	0.025396	12.000600	19.025800	2.821200	41.583200	1.625680	0.017992	0.175214	0.041687	0.003407	0.001731	0.114622	0.000588	0.011548	0.006681	0.001839	0.018391
6-Dec-2030	0.025373	12.037400	19.084300	2.829790	41.710463	1.630690	0.018047	0.175754	0.041814	0.003418	0.001736	0.114967	0.000589	0.011584	0.006702	0.001845	0.018448
7-Dec-2030	0.025361	12.078100	19.148800	2.839300	41.851253	1.636220	0.018108	0.176349	0.041954	0.003429	0.001742	0.115350	0.000591	0.011623	0.006725	0.001851	0.018510
8-Dec-2030	0.025356	12.120400	19.216000	2.849270	41.997933	1.641950	0.018171	0.176967	0.042102	0.003441	0.001748	0.115756	0.000594	0.011663	0.006748	0.001857	0.018575
9-Dec-2030	0.025347	12.167800	19.290800	2.860480	42.162453	1.648330	0.018242	0.177656	0.042267	0.003455	0.001755	0.116217	0.000596	0.011709	0.006774	0.001865	0.018647
10-Dec-2030	0.025328	12.209100	19.356100	2.870240	42.305771	1.653890	0.018304	0.178255	0.042411	0.003467	0.001761	0.116619	0.000598	0.011749	0.006797	0.001871	0.018710
11-Dec-2030	0.025325	12.248200	19.418000	2.879450	42.441331	1.659170	0.018362	0.178825	0.042547	0.003478	0.001767	0.116996	0.000600	0.011787	0.006819	0.001877	0.018770
12-Dec-2030	0.025342	12.294100	19.490900	2.890240	42.600376	1.665410	0.018431	0.179497	0.042707	0.003491	0.001773	0.117433	0.000602	0.011831	0.006845	0.001884	0.018841
13-Dec-2030	0.025362	12.344000	19.570000	2.901920	42.773075	1.672170	0.018506	0.180226	0.042880	0.003505	0.001781	0.117904	0.000604	0.011879	0.006873	0.001892	0.018917
14-Dec-2030	0.025374	12.394200	19.649800	2.913710	42.946975	1.679000	0.018582	0.180961	0.043054	0.003519	0.001788	0.118380	0.000607	0.011927	0.006901	0.001899	0.018994
15-Dec-2030	0.025363	12.440500	19.723200	2.924570	43.107308	1.685280	0.018651	0.181637	0.043215	0.003532	0.001794	0.118820	0.000609	0.011971	0.006926	0.001907	0.019065
16-Dec-2030	0.025349	12.473300	19.775200	2.932280	43.220959	1.689720	0.018700	0.182116	0.043328	0.003541	0.001799	0.119133	0.000611	0.012003	0.006945	0.001912	0.019115

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
17-Dec-2030	0.025302	12.499700	19.817000	2.938500	43.312494	1.693300	0.018740	0.182502	0.043420	0.003549	0.001803	0.119387	0.000612	0.012028	0.006959	0.001916	0.019156
18-Dec-2030	0.025244	12.550900	19.898100	2.950590	43.490127	1.700210	0.018816	0.183248	0.043598	0.003564	0.001810	0.119883	0.000615	0.012078	0.006988	0.001923	0.019234
19-Dec-2030	0.025186	12.601000	19.977500	2.962360	43.663695	1.706990	0.018891	0.183978	0.043772	0.003578	0.001818	0.120363	0.000617	0.012126	0.007016	0.001931	0.019311
20-Dec-2030	0.025116	12.645400	20.047900	2.972800	43.817554	1.713020	0.018958	0.184627	0.043926	0.003591	0.001824	0.120788	0.000619	0.012169	0.007040	0.001938	0.019379
21-Dec-2030	0.025043	12.692100	20.121800	2.983780	43.979380	1.719330	0.019028	0.185308	0.044087	0.003604	0.001831	0.121235	0.000622	0.012214	0.007066	0.001945	0.019451
22-Dec-2030	0.024995	12.738400	20.195300	2.994660	44.139795	1.725610	0.019097	0.185984	0.044248	0.003617	0.001837	0.121678	0.000624	0.012258	0.007092	0.001952	0.019522
23-Dec-2030	0.024967	12.785900	20.270600	3.005830	44.304400	1.732050	0.019169	0.186678	0.044413	0.003630	0.001844	0.122132	0.000626	0.012304	0.007119	0.001959	0.019594
24-Dec-2030	0.024927	12.834800	20.348100	3.017330	44.473861	1.738660	0.019242	0.187391	0.044583	0.003644	0.001851	0.122600	0.000629	0.012351	0.007146	0.001967	0.019669
25-Dec-2030	0.024896	12.883700	20.425600	3.028820	44.643280	1.745280	0.019315	0.188105	0.044752	0.003658	0.001858	0.123067	0.000631	0.012398	0.007173	0.001974	0.019744
26-Dec-2030	0.024874	12.932000	20.502300	3.040190	44.810706	1.751840	0.019388	0.188811	0.044920	0.003672	0.001865	0.123529	0.000633	0.012445	0.007200	0.001982	0.019818
27-Dec-2030	0.024848	12.976800	20.573200	3.050730	44.965976	1.757890	0.019455	0.189464	0.045076	0.003685	0.001872	0.123971	0.000635	0.012488	0.007225	0.001989	0.019887
28-Dec-2030	0.024827	13.039600	20.671900	3.065760	45.184681	1.766250	0.019548	0.190369	0.045297	0.003703	0.001881	0.124592	0.000638	0.012549	0.007260	0.001998	0.019983
29-Dec-2030	0.024817	13.097500	20.763700	3.079380	45.385344	1.774090	0.019635	0.191214	0.045499	0.003719	0.001890	0.125146	0.000641	0.012605	0.007292	0.002007	0.020072
30-Dec-2030	0.024802	13.144900	20.839000	3.090480	45.549412	1.780540	0.019706	0.191908	0.045663	0.003733	0.001896	0.125594	0.000644	0.012650	0.007318	0.002014	0.020144
31-Dec-2030	0.024789	13.207900	20.938900	3.105280	45.767669	1.789080	0.019800	0.192828	0.045881	0.003751	0.001905	0.126195	0.000647	0.012711	0.007353	0.002024	0.020241
1-Jan-2031	0.024782	13.272400	21.041000	3.120450	45.991196	1.797800	0.019897	0.193769	0.046105	0.003769	0.001915	0.126812	0.000650	0.012773	0.007389	0.002034	0.020340
2-Jan-2031	0.024764	13.320100	21.116900	3.131660	46.156466	1.804290	0.019969	0.194467	0.046271	0.003782	0.001922	0.127266	0.000652	0.012819	0.007416	0.002041	0.020413
3-Jan-2031	0.024743	13.384300	21.218600	3.146710	46.378749	1.812990	0.020065	0.195404	0.046493	0.003801	0.001931	0.127876	0.000655	0.012880	0.007452	0.002051	0.020511
4-Jan-2031	0.024725	13.466200	21.348400	3.166010	46.662731	1.824070	0.020187	0.196599	0.046778	0.003824	0.001943	0.128663	0.000659	0.012959	0.007497	0.002064	0.020637
5-Jan-2031	0.024698	13.514800	21.425300	3.177440	46.831154	1.830640	0.020260	0.197307	0.046947	0.003838	0.001950	0.129129	0.000662	0.013006	0.007524	0.002071	0.020711
6-Jan-2031	0.024671	13.566700	21.507700	3.189600	47.010823	1.837690	0.020338	0.198066	0.047126	0.003852	0.001957	0.129621	0.000664	0.013056	0.007553	0.002079	0.020791
7-Jan-2031	0.024658	13.644800	21.631400	3.208010	47.281651	1.848240	0.020455	0.199205	0.047398	0.003875	0.001969	0.130372	0.000668	0.013131	0.007597	0.002091	0.020910
8-Jan-2031	0.024643	13.688800	21.700900	3.218420	47.434387	1.854170	0.020521	0.199845	0.047552	0.003887	0.001975	0.130801	0.000670	0.013174	0.007621	0.002098	0.020978
9-Jan-2031	0.024611	13.725600	21.759400	3.227040	47.561774	1.859180	0.020576	0.200384	0.047679	0.003898	0.001980	0.131149	0.000672	0.013209	0.007642	0.002103	0.021034
10-Jan-2031	0.024597	13.783800	21.851800	3.240710	47.763392	1.867080	0.020664	0.201235	0.047881	0.003914	0.001989	0.131703	0.000675	0.013265	0.007674	0.002112	0.021123
11-Jan-2031	0.024597	13.852900	21.961200	3.256980	48.002935	1.876420	0.020767	0.202242	0.048121	0.003934	0.001999	0.132367	0.000678	0.013331	0.007712	0.002123	0.021229
12-Jan-2031	0.024597	13.908600	22.049300	3.270120	48.196128	1.883930	0.020850	0.203052	0.048315	0.003950	0.002007	0.132905	0.000681	0.013385	0.007743	0.002131	0.021314
13-Jan-2031	0.024598	13.960700	22.131800	3.282390	48.376750	1.890970	0.020928	0.203812	0.048497	0.003965	0.002014	0.133406	0.000684	0.013435	0.007772	0.002139	0.021394
14-Jan-2031	0.024584	14.005800	22.203400	3.293020	48.533139	1.897090	0.020996	0.204471	0.048654	0.003977	0.002021	0.133838	0.000686	0.013479	0.007798	0.002146	0.021463
15-Jan-2031	0.024573	14.055200	22.281500	3.304710	48.704630	1.903740	0.021070	0.205189	0.048826	0.003991	0.002028	0.134320	0.000688	0.013527	0.007825	0.002154	0.021539
16-Jan-2031	0.024553	14.084100	22.327300	3.311480	48.804672	1.907660	0.021113	0.205611	0.048926	0.004000	0.002032	0.134594	0.000690	0.013554	0.007841	0.002158	0.021583
17-Jan-2031	0.024534	14.136500	22.410200	3.323900	48.986661	1.914710	0.021191	0.206373	0.049109	0.004015	0.002040	0.135106	0.000692	0.013605	0.007870	0.002166	0.021664
18-Jan-2031	0.024531	14.202700	22.514800	3.339510	49.216244	1.923630	0.021290	0.207335	0.049340	0.004034	0.002049	0.135746	0.000695	0.013669	0.007907	0.002176	0.021765
19-Jan-2031	0.024523	14.250000	22.589900	3.350620	49.380103	1.930060	0.021361	0.208027	0.049504	0.004047	0.002056	0.136197	0.000698	0.013714	0.007933	0.002184	0.021837
20-Jan-2031	0.024524	14.347600	22.745800	3.373180	49.716712	1.943490	0.021509	0.209469	0.049838	0.004074	0.002070	0.137082	0.000703	0.013807	0.007988	0.002199	0.021987
21-Jan-2031	0.024526	14.463400	22.929300	3.400450	50.118163	1.959160	0.021682	0.211158	0.050240	0.004107	0.002087	0.138194	0.000708	0.013919	0.008052	0.002216	0.022165
22-Jan-2031	0.024528	14.590500	23.130600	3.430400	50.558866	1.976330	0.021873	0.213011	0.050683	0.004143	0.002105	0.139416	0.000714	0.014041	0.008123	0.002236	0.022359
23-Jan-2031	0.024518	14.700800	23.305200	3.456400	50.941353	1.991230	0.022038	0.214617	0.051067	0.004175	0.002121	0.140479	0.000720	0.014148	0.008184	0.002253	0.022528
24-Jan-2031	0.024505	14.823100	23.499000	3.485170	51.365211	2.007780	0.022221	0.216401	0.051492	0.004210	0.002139	0.141649	0.000726	0.014265	0.008253	0.002272	0.022716
25-Jan-2031	0.024485	14.941900	23.687400	3.513120	51.776952	2.023880	0.022399	0.218136	0.051905	0.004243	0.002156	0.142787	0.000732	0.014380	0.008319	0.002290	0.022898
26-Jan-2031	0.024467	15.062000	23.877800	3.541360	52.193134	2.040140	0.022579	0.219890	0.052322	0.004277	0.002173	0.143935	0.000738	0.014495	0.008386	0.002308	0.023082
27-Jan-2031	0.024454	15.187300	24.076300	3.570800	52.627243	2.057110	0.022767	0.221718	0.052757	0.004313	0.002191	0.145131	0.000744	0.014616	0.008455	0.002327	0.023274
28-Jan-2031	0.024443	15.292400	24.243000	3.595520	52.991474	2.071350	0.022924	0.223253	0.053122	0.004343	0.002206	0.146136	0.000749	0.014717	0.008514	0.002343	0.023435
29-Jan-2031	0.024434	15.370900	24.367500	3.613990	53.263548	2.081990	0.023042	0.224400	0.053395	0.004365	0.002218	0.146886	0.000753	0.014793	0.008558	0.002356	0.023555
30-Jan-2031	0.024424	15.431600	24.463800	3.628230	53.473756	2.090230	0.023133	0.225287	0.053605	0.004382	0.002226	0.147463	0.000756	0.014851	0.008591	0.002365	0.023648
31-Jan-2031	0.024414	15.498300	24.569600	3.643890	53.704794	2.099280	0.023233	0.226262	0.053837	0.004401	0.002236	0.148098	0.000759	0.014915	0.008629	0.002375	0.023751
1-Feb-2031	0.024406	15.563700	24.673300	3.659220	53.931227	2.108140	0.023331	0.227217	0.054063	0.004420	0.002245	0.148719	0.000762	0.014978	0.008665	0.002385	0.023851
2-Feb-2031	0.024399	15.618400	24.760100	3.672070	54.120729	2.115570	0.023414	0.228017	0.054253	0.004435	0.002253	0.149239	0.000765	0.015030	0.008695	0.002393	0.023935
3-Feb-2031	0.024396	15.654600	24.817600	3.680570	54.246123	2.120480	0.023468	0.228546	0.054378	0.004446	0.002258	0.149584	0.000767	0.015065	0.008716	0.002399	0.023990
4-Feb-2031	0.024395	15.704000	24.895900	3.692170	54.417244	2.127170	0.023542	0.229267	0.054550	0.004460	0.002266	0.150055	0.000769	0.015113	0.008743	0.002407	0.024066
5-Feb-2031	0.024396	15.800500	25.048900	3.714850	54.751601	2.140250	0.023687	0.230676	0.054885	0.004487	0.002279	0.150976	0.000774	0.015206	0.008797	0.002421	0.024214
6-Feb-2031	0.024396	15.626300	24.772700	3.673940	54.148156	2.116630	0.023425	0.228132	0.054280	0.004438	0.002254	0.149317	0.000765	0.015038	0.008700	0.002395	0.023947

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Feb-2031	0.024397	15.764400	24.991600	3.706420	54.626744	2.135340	0.023632	0.230148	0.054760	0.004477	0.002274	0.150637	0.000772	0.015171	0.008777	0.002416	0.024158
8-Feb-2031	0.024397	15.901600	25.209000	3.738660	55.102097	2.153910	0.023838	0.232150	0.055236	0.004516	0.002294	0.151948	0.000779	0.015303	0.008853	0.002437	0.024368
9-Feb-2031	0.024398	16.032700	25.416800	3.769480	55.556371	2.171670	0.024035	0.234064	0.055692	0.004553	0.002313	0.153200	0.000785	0.015429	0.008926	0.002457	0.024569
10-Feb-2031	0.024397	16.163900	25.624900	3.800340	56.011058	2.189450	0.024231	0.235980	0.056148	0.004590	0.002332	0.154454	0.000791	0.015555	0.008999	0.002477	0.024771
11-Feb-2031	0.024397	16.347000	25.915200	3.843380	56.645498	2.214250	0.024506	0.238654	0.056784	0.004642	0.002358	0.156203	0.000800	0.015732	0.009101	0.002505	0.025051
12-Feb-2031	0.024396	16.550300	26.237500	3.891180	57.349978	2.241800	0.024811	0.241622	0.057490	0.004700	0.002388	0.158146	0.000810	0.015927	0.009214	0.002536	0.025363
13-Feb-2031	0.024396	16.772300	26.589400	3.943380	58.119272	2.271870	0.025143	0.244863	0.058261	0.004763	0.002420	0.160267	0.000821	0.016141	0.009338	0.002570	0.025703
14-Feb-2031	0.024396	17.001600	26.952900	3.997280	58.913794	2.302920	0.025487	0.248210	0.059057	0.004828	0.002453	0.162458	0.000832	0.016362	0.009465	0.002605	0.026054
15-Feb-2031	0.024396	17.221400	27.301300	4.048950	59.675412	2.332690	0.025817	0.251418	0.059821	0.004891	0.002485	0.164558	0.000843	0.016573	0.009588	0.002639	0.026391
16-Feb-2031	0.024396	17.448200	27.660900	4.102280	60.461344	2.363410	0.026157	0.254730	0.060609	0.004955	0.002517	0.166725	0.000854	0.016791	0.009714	0.002674	0.026739
17-Feb-2031	0.024396	17.690700	28.045400	4.159310	61.301716	2.396260	0.026520	0.258271	0.061451	0.005024	0.002552	0.169043	0.000866	0.017025	0.009849	0.002711	0.027110
18-Feb-2031	0.024396	17.935400	28.433300	4.216830	62.149600	2.429410	0.026887	0.261843	0.062301	0.005093	0.002588	0.171381	0.000878	0.017260	0.009985	0.002749	0.027485
19-Feb-2031	0.024396	18.167100	28.800700	4.271320	62.952544	2.460800	0.027234	0.265226	0.063106	0.005159	0.002621	0.173595	0.000890	0.017483	0.010114	0.002784	0.027840
20-Feb-2031	0.024396	18.402400	29.173600	4.326630	63.767855	2.492670	0.027587	0.268661	0.063923	0.005226	0.002655	0.175843	0.000901	0.017710	0.010245	0.002820	0.028201
21-Feb-2031	0.024396	18.638500	29.547800	4.382130	64.585946	2.524640	0.027941	0.272107	0.064743	0.005293	0.002689	0.178099	0.000913	0.017937	0.010377	0.002856	0.028563
22-Feb-2031	0.024396	18.850600	29.884100	4.432000	65.320924	2.553370	0.028259	0.275204	0.065480	0.005353	0.002720	0.180126	0.000923	0.018141	0.010495	0.002889	0.028888
23-Feb-2031	0.024396	19.054200	30.206900	4.479860	66.026401	2.580950	0.028564	0.278176	0.066187	0.005411	0.002749	0.182071	0.000933	0.018337	0.010608	0.002920	0.029200
24-Feb-2031	0.024396	19.261000	30.534700	4.528480	66.742998	2.608960	0.028874	0.281195	0.066906	0.005470	0.002779	0.184047	0.000943	0.018536	0.010723	0.002952	0.029517
25-Feb-2031	0.024396	17.703300	28.065500	4.162230	61.345203	2.397990	0.026539	0.258457	0.061494	0.005027	0.002554	0.169158	0.000867	0.017037	0.009856	0.002713	0.027130
26-Feb-2031	0.024396	17.876600	28.340200	4.202960	61.945659	2.421460	0.026799	0.260986	0.062096	0.005077	0.002579	0.170813	0.000875	0.017204	0.009953	0.002740	0.027395
27-Feb-2031	0.024396	18.051900	28.618000	4.244170	62.553086	2.445210	0.027062	0.263545	0.062705	0.005126	0.002604	0.172488	0.000884	0.017372	0.010050	0.002766	0.027664
28-Feb-2031	0.024396	18.228600	28.898200	4.285720	63.165409	2.469140	0.027327	0.266125	0.063319	0.005177	0.002630	0.174177	0.000893	0.017542	0.010149	0.002793	0.027935
1-Mar-2031	0.024395	18.405400	29.178500	4.327280	63.778023	2.493090	0.027592	0.268706	0.063933	0.005227	0.002655	0.175866	0.000901	0.017712	0.010247	0.002821	0.028206
2-Mar-2031	0.024395	18.583100	29.460200	4.369070	64.393831	2.517170	0.027858	0.271301	0.064550	0.005277	0.002681	0.177564	0.000910	0.017883	0.010346	0.002848	0.028478
3-Mar-2031	0.024395	18.761800	29.743600	4.411090	65.013083	2.541370	0.028126	0.273910	0.065171	0.005328	0.002707	0.179272	0.000919	0.018055	0.010446	0.002875	0.028752
4-Mar-2031	0.024395	18.941400	30.028300	4.453320	65.635448	2.565700	0.028395	0.276532	0.065795	0.005379	0.002733	0.180988	0.000927	0.018228	0.010546	0.002903	0.029027
5-Mar-2031	0.024395	19.122000	30.314600	4.495770	66.261215	2.590160	0.028666	0.279169	0.066422	0.005430	0.002759	0.182714	0.000936	0.018402	0.010646	0.002930	0.029304
6-Mar-2031	0.024395	19.303600	30.602400	4.538460	66.890467	2.614760	0.028938	0.281819	0.067053	0.005482	0.002785	0.184448	0.000945	0.018577	0.010747	0.002958	0.029582
7-Mar-2031	0.024395	19.486300	30.892100	4.581420	67.523579	2.639510	0.029212	0.284487	0.067688	0.005534	0.002811	0.186195	0.000954	0.018753	0.010849	0.002986	0.029862
8-Mar-2031	0.024395	19.670300	31.183700	4.624670	68.161130	2.664430	0.029488	0.287173	0.068327	0.005586	0.002838	0.187952	0.000963	0.018930	0.010951	0.003014	0.030144
9-Mar-2031	0.024395	19.855700	31.477700	4.668270	68.803619	2.689540	0.029766	0.289880	0.068971	0.005639	0.002865	0.189724	0.000972	0.019108	0.011055	0.003043	0.030428
10-Mar-2031	0.024394	20.043700	31.775800	4.712470	69.455070	2.715010	0.030048	0.292625	0.069624	0.005692	0.002892	0.191521	0.000981	0.019289	0.011159	0.003072	0.030716
11-Mar-2031	0.024394	20.234500	32.078300	4.757330	70.116231	2.740860	0.030334	0.295410	0.070287	0.005746	0.002919	0.193344	0.000991	0.019473	0.011265	0.003101	0.031009
12-Mar-2031	0.024394	20.427600	32.384300	4.802720	70.785318	2.767010	0.030623	0.298229	0.070957	0.005801	0.002947	0.195188	0.001000	0.019658	0.011373	0.003130	0.031304
13-Mar-2031	0.024394	20.622200	32.692900	4.848490	71.459715	2.793370	0.030915	0.301071	0.071634	0.005856	0.002975	0.197048	0.001010	0.019846	0.011481	0.003160	0.031603
14-Mar-2031	0.024394	20.818400	33.003800	4.894600	72.139508	2.819940	0.031209	0.303934	0.072315	0.005912	0.003003	0.198923	0.001019	0.020035	0.011590	0.003190	0.031903
15-Mar-2031	0.024394	21.015600	33.316400	4.940960	72.822826	2.846650	0.031505	0.306813	0.073000	0.005968	0.003032	0.200807	0.001029	0.020224	0.011700	0.003221	0.032206
16-Mar-2031	0.024394	21.214500	33.631800	4.987730	73.512079	2.873590	0.031803	0.309717	0.073691	0.006024	0.003061	0.202707	0.001039	0.020416	0.011811	0.003251	0.032510
17-Mar-2031	0.024394	21.414800	33.949300	5.034820	74.206144	2.900720	0.032103	0.312641	0.074387	0.006081	0.003089	0.204621	0.001049	0.020608	0.011923	0.003282	0.032817
18-Mar-2031	0.024394	21.616600	34.269300	5.082270	74.905438	2.928060	0.032406	0.315587	0.075088	0.006139	0.003119	0.206549	0.001058	0.020803	0.012035	0.003313	0.033127
19-Mar-2031	0.024394	21.820000	34.591800	5.130100	75.610292	2.955620	0.032711	0.318558	0.075794	0.006196	0.003148	0.208493	0.001068	0.020998	0.012148	0.003344	0.033438
20-Mar-2031	0.024394	22.025200	34.917100	5.178340	76.321329	2.983410	0.033018	0.321553	0.076507	0.006255	0.003178	0.210454	0.001078	0.021196	0.012262	0.003375	0.033753
21-Mar-2031	0.024394	22.232200	35.245200	5.227000	77.038589	3.011450	0.033328	0.324575	0.077226	0.006313	0.003207	0.212431	0.001089	0.021395	0.012378	0.003407	0.034070
22-Mar-2031	0.024394	22.440900	35.576100	5.276080	77.761825	3.039720	0.033641	0.327622	0.077951	0.006373	0.003237	0.214426	0.001099	0.021596	0.012494	0.003439	0.034390
23-Mar-2031	0.024394	22.651600	35.910100	5.325620	78.491948	3.068260	0.033957	0.330698	0.078683	0.006433	0.003268	0.216439	0.001109	0.021799	0.012611	0.003471	0.034713
24-Mar-2031	0.024394	22.864100	36.247000	5.375570	79.228255	3.097050	0.034276	0.333801	0.079421	0.006493	0.003299	0.218470	0.001120	0.022003	0.012729	0.003504	0.035038
25-Mar-2031	0.024394	23.078400	36.586700	5.425950	79.970827	3.126070	0.034597	0.336929	0.080165	0.006554	0.003329	0.220517	0.001130	0.022209	0.012849	0.003537	0.035367
26-Mar-2031	0.024394	23.294300	36.929000	5.476730	80.719041	3.155320	0.034921	0.340082	0.080915	0.006615	0.003361	0.222581	0.001141	0.022417	0.012969	0.003570	0.035698
27-Mar-2031	0.024394	23.512100	37.274200	5.527920	81.473688	3.184820	0.035247	0.343261	0.081672	0.006677	0.003392	0.224661	0.001151	0.022627	0.013090	0.003603	0.036031
28-Mar-2031	0.024394	23.731700	37.622500	5.579560	82.234683	3.214570	0.035576	0.346467	0.082435	0.006739	0.003424	0.226760	0.001162	0.022838	0.013212	0.003637	0.036368
29-Mar-2031	0.024394	23.953400	37.973800	5.631670	83.002857	3.244590	0.035909	0.349703	0.083205	0.006802	0.003456	0.228878	0.001173	0.023051	0.013336	0.003671	0.036708
30-Mar-2031	0.024393	24.176900	38.328200	5.684230	83.777378	3.274870	0.036244	0.352967	0.083981	0.006866	0.003488	0.231014	0.001184	0.023267	0.013460	0.003705	0.037050

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Mar-2031	0.024392	24.399900	38.681700	5.736660	84.550116	3.305080	0.036578	0.356222	0.084756	0.006929	0.003520	0.233145	0.001195	0.023481	0.013584	0.003739	0.037392
1-Apr-2031	0.024392	24.624000	39.037000	5.789340	85.326630	3.335430	0.036914	0.359494	0.085534	0.006993	0.003552	0.235286	0.001206	0.023697	0.013709	0.003774	0.037735
2-Apr-2031	0.024392	24.782200	39.287800	5.826540	85.874845	3.356860	0.037151	0.361803	0.086084	0.007038	0.003575	0.236797	0.001213	0.023849	0.013797	0.003798	0.037978
3-Apr-2031	0.024392	24.565100	38.943600	5.775490	85.122523	3.327450	0.036826	0.358634	0.085330	0.006976	0.003544	0.234723	0.001203	0.023640	0.013676	0.003765	0.037645
4-Apr-2031	0.024392	24.328200	38.568000	5.719790	84.301611	3.295360	0.036471	0.355175	0.084507	0.006909	0.003510	0.232459	0.001191	0.023412	0.013545	0.003728	0.037282
5-Apr-2031	0.024392	24.127700	38.250200	5.672660	83.606881	3.268210	0.036170	0.352249	0.083810	0.006852	0.003481	0.230544	0.001181	0.023219	0.013433	0.003697	0.036975
6-Apr-2031	0.024392	23.954700	37.975900	5.631980	83.007380	3.244770	0.035911	0.349722	0.083209	0.006803	0.003456	0.228890	0.001173	0.023053	0.013337	0.003671	0.036710
7-Apr-2031	0.024392	23.801000	37.732300	5.595850	82.474807	3.223950	0.035680	0.347479	0.082675	0.006759	0.003434	0.227422	0.001165	0.022905	0.013251	0.003647	0.036474
8-Apr-2031	0.024392	23.661700	37.511400	5.563100	81.992111	3.205080	0.035472	0.345445	0.082192	0.006719	0.003414	0.226091	0.001159	0.022771	0.013173	0.003626	0.036261
9-Apr-2031	0.024392	23.534700	37.310100	5.533230	81.551987	3.187880	0.035281	0.343591	0.081750	0.006683	0.003395	0.224877	0.001152	0.022649	0.013103	0.003607	0.036066
10-Apr-2031	0.024392	23.419800	37.128000	5.506230	81.153896	3.172320	0.035109	0.341914	0.081351	0.006651	0.003379	0.223780	0.001147	0.022538	0.013039	0.003589	0.035890
11-Apr-2031	0.024392	23.317000	36.964900	5.482040	80.797590	3.158390	0.034955	0.340412	0.080994	0.006622	0.003364	0.222797	0.001142	0.022439	0.012982	0.003573	0.035732
12-Apr-2031	0.024392	23.222700	36.815400	5.459870	80.470827	3.145610	0.034813	0.339035	0.080666	0.006595	0.003350	0.221896	0.001137	0.022348	0.012929	0.003559	0.035588
13-Apr-2031	0.024390	23.134900	36.676300	5.439250	80.166677	3.133730	0.034682	0.337754	0.080362	0.006570	0.003338	0.221057	0.001133	0.022264	0.012880	0.003545	0.035453
14-Apr-2031	0.024390	23.053000	36.546400	5.419980	79.882819	3.122630	0.034559	0.336558	0.080077	0.006547	0.003326	0.220274	0.001129	0.022185	0.012835	0.003533	0.035328
15-Apr-2031	0.024390	22.976200	36.424700	5.401930	79.616719	3.112230	0.034444	0.335437	0.079810	0.006525	0.003315	0.219541	0.001125	0.022111	0.012792	0.003521	0.035210
16-Apr-2031	0.024390	22.904200	36.310600	5.385010	79.367259	3.102480	0.034336	0.334387	0.079560	0.006504	0.003304	0.218853	0.001122	0.022042	0.012752	0.003510	0.035100
17-Apr-2031	0.024390	22.836600	36.203400	5.369110	79.132985	3.093320	0.034235	0.333399	0.079325	0.006485	0.003295	0.218207	0.001118	0.021977	0.012714	0.003500	0.034996
18-Apr-2031	0.024390	22.772900	36.102400	5.354130	78.912239	3.084690	0.034139	0.332469	0.079104	0.006467	0.003285	0.217598	0.001115	0.021915	0.012679	0.003490	0.034899
19-Apr-2031	0.024390	22.712700	36.006900	5.339970	78.703608	3.076530	0.034049	0.331590	0.078895	0.006450	0.003277	0.217023	0.001112	0.021857	0.012645	0.003481	0.034806
20-Apr-2031	0.024390	22.655300	35.916000	5.326490	78.504770	3.068760	0.033963	0.330752	0.078696	0.006434	0.003268	0.216475	0.001109	0.021802	0.012613	0.003472	0.034718
21-Apr-2031	0.024390	22.600300	35.828800	5.313550	78.314148	3.061310	0.033880	0.329949	0.078505	0.006418	0.003260	0.215949	0.001107	0.021749	0.012583	0.003463	0.034634
22-Apr-2031	0.024390	22.547100	35.744400	5.301040	78.129791	3.054100	0.033801	0.329172	0.078320	0.006403	0.003253	0.215441	0.001104	0.021698	0.012553	0.003455	0.034553
23-Apr-2031	0.024390	22.495400	35.662500	5.288890	77.950663	3.047110	0.033723	0.328418	0.078140	0.006388	0.003245	0.214947	0.001102	0.021648	0.012524	0.003447	0.034473
24-Apr-2031	0.024390	21.955300	34.806200	5.161890	76.079047	2.973940	0.032913	0.320532	0.076264	0.006235	0.003167	0.209785	0.001075	0.021129	0.012223	0.003365	0.033646
25-Apr-2031	0.024390	21.905000	34.726500	5.150080	75.904814	2.967130	0.032838	0.319799	0.076089	0.006221	0.003160	0.209305	0.001073	0.021080	0.012195	0.003357	0.033569
26-Apr-2031	0.024390	21.856600	34.649700	5.138690	75.737056	2.960570	0.032765	0.319091	0.075921	0.006207	0.003153	0.208842	0.001070	0.021034	0.012168	0.003349	0.033494
27-Apr-2031	0.024390	21.810200	34.576200	5.127780	75.576267	2.954290	0.032696	0.318414	0.075760	0.006194	0.003146	0.208399	0.001068	0.020989	0.012143	0.003342	0.033423
28-Apr-2031	0.024390	21.766000	34.506200	5.117400	75.423155	2.948310	0.032630	0.317769	0.075607	0.006181	0.003140	0.207977	0.001066	0.020946	0.012118	0.003336	0.033356
29-Apr-2031	0.024390	21.724300	34.440100	5.107600	75.278674	2.942660	0.032567	0.317161	0.075462	0.006169	0.003134	0.207579	0.001064	0.020906	0.012095	0.003329	0.033292
30-Apr-2031	0.024413	21.680400	34.370400	5.097260	75.126475	2.936700	0.032501	0.316519	0.075309	0.006157	0.003128	0.207159	0.001062	0.020864	0.012070	0.003322	0.033224
1-May-2031	0.024652	21.595500	34.235800	5.077300	74.832285	2.925200	0.032374	0.315279	0.075014	0.006133	0.003116	0.206347	0.001057	0.020782	0.012023	0.003309	0.033094
2-May-2031	0.025988	21.789700	34.543700	5.122970	75.505271	2.951510	0.032665	0.318115	0.075689	0.006188	0.003144	0.208203	0.001067	0.020969	0.012131	0.003339	0.033392
3-May-2031	0.032144	21.809300	34.574700	5.127600	75.573279	2.954150	0.032694	0.318400	0.075757	0.006193	0.003146	0.208394	0.001068	0.020988	0.012142	0.003342	0.033422
4-May-2031	0.038829	21.481500	34.054900	5.050540	74.437429	2.909740	0.032203	0.313613	0.074619	0.006100	0.003099	0.205264	0.001052	0.020673	0.011960	0.003292	0.032919
5-May-2031	0.044631	20.963200	33.233200	4.928700	72.641497	2.839520	0.031426	0.306045	0.072819	0.005953	0.003024	0.200313	0.001026	0.020174	0.011671	0.003213	0.032125
6-May-2031	0.050320	20.599600	32.656900	4.843240	71.381664	2.790280	0.030881	0.300738	0.071556	0.005850	0.002972	0.196841	0.001009	0.019824	0.011469	0.003157	0.031568
7-May-2031	0.055078	20.234400	32.077800	4.757360	70.116105	2.740800	0.030333	0.295406	0.070287	0.005746	0.002919	0.193350	0.000991	0.019473	0.011265	0.003101	0.031008
8-May-2031	0.059858	20.007400	31.718200	4.703940	69.329303	2.710090	0.029993	0.292095	0.069498	0.005682	0.002886	0.191174	0.000980	0.019254	0.011139	0.003066	0.030661
9-May-2031	0.064029	19.825900	31.430400	4.661260	68.700341	2.685510	0.029721	0.289445	0.068867	0.005630	0.002860	0.189439	0.000971	0.019079	0.011038	0.003038	0.030382
10-May-2031	0.067482	19.611000	31.089800	4.610740	67.955694	2.656400	0.029399	0.286308	0.068121	0.005569	0.002829	0.187386	0.000960	0.018873	0.010918	0.003005	0.030053
11-May-2031	0.071374	19.431300	30.804900	4.568490	67.332998	2.632060	0.029130	0.283684	0.067497	0.005518	0.002803	0.185669	0.000951	0.018700	0.010818	0.002978	0.029778
12-May-2031	0.075410	19.306200	30.606600	4.539080	66.899513	2.615110	0.028942	0.281858	0.067062	0.005483	0.002785	0.184473	0.000945	0.018579	0.010749	0.002959	0.029586
13-May-2031	0.080802	19.058300	30.213600	4.480790	66.040468	2.581530	0.028571	0.278239	0.066201	0.005412	0.002749	0.182104	0.000933	0.018341	0.010611	0.002921	0.029206
14-May-2031	0.085084	18.821800	29.838600	4.425170	65.220885	2.549490	0.028216	0.274785	0.065379	0.005345	0.002715	0.179844	0.000922	0.018113	0.010479	0.002884	0.028844
15-May-2031	0.093536	18.597400	29.482900	4.372420	64.443333	2.519100	0.027880	0.271509	0.064600	0.005281	0.002683	0.177700	0.000911	0.017897	0.010354	0.002850	0.028500
16-May-2031	0.106020	18.209000	28.867200	4.281110	63.097484	2.466500	0.027297	0.265840	0.063251	0.005171	0.002627	0.173989	0.000892	0.017523	0.010138	0.002790	0.027905
17-May-2031	0.117138	17.758600	28.153200	4.175200	61.536698	2.405490	0.026622	0.259264	0.061686	0.005043	0.002562	0.169684	0.000870	0.017090	0.009887	0.002721	0.027214
18-May-2031	0.128294	17.582900	27.874600	4.133890	60.927860	2.381690	0.026359	0.256699	0.061076	0.004993	0.002537	0.168005	0.000861	0.016921	0.009789	0.002695	0.026945
19-May-2031	0.131606	17.443900	27.654300	4.101210	60.446201	2.362870	0.026150	0.254670	0.060593	0.004954	0.002517	0.166677	0.000854	0.016787	0.009712	0.002673	0.026732
20-May-2031	0.137616	16.678200	26.440300	3.921200	57.792967	2.259130	0.025002	0.243490	0.057934	0.004736	0.002406	0.159362	0.000817	0.016050	0.009285	0.002556	0.025559
21-May-2031	0.139239	16.233100	25.734700	3.816560	56.250645	2.198840	0.024335	0.236992	0.056388	0.004610	0.002342	0.155109	0.000795	0.015622	0.009038	0.002488	0.024877

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
22-May-2031	0.140713	15.798900	25.046300	3.714450	54.745958	2.140030	0.023684	0.230653	0.054879	0.004487	0.002279	0.150958	0.000774	0.015204	0.008796	0.002421	0.024211
23-May-2031	0.144805	15.461800	24.511900	3.635200	53.577868	2.094360	0.023179	0.225731	0.053709	0.004391	0.002231	0.147737	0.000757	0.014880	0.008608	0.002369	0.023694
24-May-2031	0.152001	15.063400	23.880300	3.541560	52.197454	2.040390	0.022582	0.219914	0.052325	0.004278	0.002173	0.143932	0.000738	0.014496	0.008386	0.002308	0.023084
25-May-2031	0.158434	14.683000	23.277200	3.452140	50.879364	1.988860	0.022011	0.214360	0.051004	0.004170	0.002118	0.140299	0.000719	0.014130	0.008175	0.002250	0.022501
26-May-2031	0.162690	14.426600	22.870700	3.391870	49.990941	1.954120	0.021627	0.210616	0.050114	0.004097	0.002081	0.137850	0.000706	0.013884	0.008032	0.002211	0.022108
27-May-2031	0.169772	14.094200	22.343500	3.313750	48.839240	1.909060	0.021128	0.205760	0.048961	0.004002	0.002033	0.134676	0.000690	0.013564	0.007847	0.002160	0.021599
28-May-2031	0.172134	13.963300	22.136000	3.282970	48.385631	1.891330	0.020932	0.203849	0.048506	0.003965	0.002015	0.133425	0.000684	0.013438	0.007774	0.002140	0.021398
29-May-2031	0.179166	13.815400	21.901500	3.248220	47.873224	1.871290	0.020710	0.201689	0.047993	0.003923	0.001993	0.132014	0.000676	0.013296	0.007692	0.002117	0.021171
30-May-2031	0.189594	13.762700	21.817900	3.235880	47.690816	1.864130	0.020631	0.200918	0.047811	0.003908	0.001986	0.131514	0.000674	0.013245	0.007662	0.002109	0.021090
31-May-2031	0.201623	13.663300	21.660200	3.212560	47.346582	1.850640	0.020482	0.199464	0.047467	0.003880	0.001971	0.130570	0.000669	0.013150	0.007607	0.002094	0.020938
1-Jun-2031	0.227238	13.550600	21.481100	3.186150	46.956414	1.835310	0.020312	0.197814	0.047077	0.003848	0.001955	0.129504	0.000663	0.013041	0.007544	0.002077	0.020765
2-Jun-2031	0.259253	13.431900	21.292700	3.158310	46.545375	1.819190	0.020134	0.196076	0.046667	0.003814	0.001938	0.128376	0.000658	0.012927	0.007478	0.002058	0.020583
3-Jun-2031	0.285757	13.275900	21.044800	3.121820	46.005577	1.797930	0.019899	0.193789	0.046134	0.003770	0.001916	0.126900	0.000650	0.012778	0.007391	0.002034	0.020344
4-Jun-2031	0.324720	13.106100	20.773800	3.082410	45.419296	1.774570	0.019642	0.191280	0.045570	0.003721	0.001893	0.125320	0.000642	0.012617	0.007296	0.002008	0.020085
5-Jun-2031	0.418517	12.916100	20.467800	3.039080	44.766433	1.747920	0.019350	0.188426	0.044978	0.003666	0.001868	0.123620	0.000632	0.012439	0.007190	0.001979	0.019795
6-Jun-2031	0.477224	12.732000	20.168700	2.997880	44.137074	1.721580	0.019063	0.185615	0.044443	0.003613	0.001845	0.122035	0.000623	0.012271	0.007086	0.001952	0.019515
7-Jun-2031	0.491245	12.554500	19.876400	2.959320	43.535066	1.695420	0.018781	0.182847	0.043984	0.003560	0.001825	0.120595	0.000613	0.012114	0.006986	0.001925	0.019247
8-Jun-2031	0.522204	12.348800	19.537400	2.914550	42.837071	1.665040	0.018454	0.179628	0.043475	0.003499	0.001802	0.118944	0.000603	0.011932	0.006869	0.001894	0.018936
9-Jun-2031	0.552552	12.165800	19.236000	2.874740	42.216182	1.638060	0.018163	0.176777	0.043001	0.003445	0.001782	0.117464	0.000593	0.011770	0.006766	0.001866	0.018660
10-Jun-2031	0.580723	11.971900	18.915900	2.832860	41.559552	1.609310	0.017854	0.173744	0.042485	0.003387	0.001761	0.115924	0.000583	0.011600	0.006656	0.001837	0.018367
11-Jun-2031	0.590942	11.771600	18.582200	2.790470	40.884841	1.578970	0.017529	0.170556	0.042026	0.003326	0.001740	0.114384	0.000572	0.011427	0.006542	0.001807	0.018066
12-Jun-2031	0.619873	11.528700	18.173700	2.740120	40.070978	1.541300	0.017128	0.166596	0.041511	0.003251	0.001718	0.112586	0.000559	0.011223	0.006403	0.001770	0.017701
13-Jun-2031	0.671314	11.346400	17.864400	2.703070	39.463203	1.512430	0.016822	0.163564	0.041163	0.003194	0.001703	0.111287	0.000549	0.011072	0.006299	0.001743	0.017428
14-Jun-2031	0.753609	11.135800	17.502900	2.661540	38.766314	1.478930	0.016466	0.160041	0.040904	0.003127	0.001689	0.109950	0.000538	0.010904	0.006177	0.001712	0.017116
15-Jun-2031	0.856612	10.993400	17.270300	2.629880	38.280366	1.457480	0.016237	0.157780	0.040536	0.003085	0.001670	0.108675	0.000530	0.010775	0.006097	0.001690	0.016898
16-Jun-2031	0.985512	10.894400	17.100400	2.610240	37.952285	1.441390	0.016067	0.156091	0.040395	0.003053	0.001663	0.108022	0.000525	0.010696	0.006040	0.001675	0.016749
17-Jun-2031	1.098610	10.781500	16.905800	2.587970	37.578666	1.423140	0.015872	0.154186	0.040159	0.003018	0.001655	0.107305	0.000518	0.010606	0.005975	0.001658	0.016579
18-Jun-2031	1.187286	10.648500	16.677400	2.561490	37.137520	1.401870	0.015646	0.151957	0.039867	0.002977	0.001644	0.106440	0.000511	0.010500	0.005898	0.001638	0.016380
19-Jun-2031	1.313372	10.548400	16.508000	2.540930	36.802905	1.385580	0.015478	0.150231	0.039596	0.002946	0.001635	0.105737	0.000505	0.010417	0.005841	0.001623	0.016229
20-Jun-2031	1.465625	10.401100	16.258800	2.510800	36.311021	1.363420	0.015240	0.147930	0.039304	0.002902	0.001622	0.104755	0.000498	0.010297	0.005757	0.001601	0.016007
21-Jun-2031	1.620845	10.260700	16.018000	2.483020	35.846044	1.340800	0.015001	0.145564	0.039083	0.002859	0.001612	0.103918	0.000490	0.010186	0.005676	0.001580	0.015797
22-Jun-2031	1.778024	10.101400	15.754800	2.449990	35.312255	1.315990	0.014741	0.142973	0.038824	0.002810	0.001600	0.102944	0.000481	0.010056	0.005586	0.001556	0.015558
23-Jun-2031	1.913777	9.943130	15.481200	2.420430	34.795326	1.290120	0.014469	0.140274	0.038625	0.002763	0.001590	0.102141	0.000472	0.009940	0.005495	0.001532	0.015321
24-Jun-2031	2.017181	9.826360	15.274700	2.396190	34.403931	1.270170	0.014262	0.138200	0.038483	0.002727	0.001582	0.101544	0.000466	0.009847	0.005427	0.001514	0.015145
25-Jun-2031	2.116739	9.670470	15.003600	2.367460	33.896364	1.244370	0.013993	0.135518	0.038246	0.002681	0.001572	0.100722	0.000457	0.009734	0.005338	0.001491	0.014911
26-Jun-2031	2.221521	9.524720	14.748200	2.339230	33.416175	1.220230	0.013741	0.133009	0.038019	0.002639	0.001561	0.099912	0.000448	0.009623	0.005253	0.001469	0.014692
27-Jun-2031	2.338913	9.384050	14.500500	2.310560	32.946859	1.196850	0.013496	0.130578	0.037733	0.002597	0.001549	0.099008	0.000440	0.009509	0.005172	0.001448	0.014480
28-Jun-2031	2.461294	9.265590	14.287100	2.287270	32.555156	1.175280	0.013276	0.128337	0.037544	0.002561	0.001541	0.098342	0.000433	0.009418	0.005104	0.001430	0.014302
29-Jun-2031	2.588606	9.129110	14.051600	2.260130	32.102603	1.153220	0.013043	0.126057	0.037303	0.002520	0.001530	0.097537	0.000426	0.009310	0.005026	0.001410	0.014097
30-Jun-2031	2.775091	9.002730	13.831000	2.235550	31.685812	1.132000	0.012824	0.123846	0.037106	0.002483	0.001522	0.096867	0.000418	0.009214	0.004953	0.001391	0.013906
1-Jul-2031	4.224392	7.167370	10.687400	1.860400	25.558050	0.837058	0.009702	0.093004	0.033644	0.001926	0.001372	0.085041	0.000317	0.007766	0.003908	0.001115	0.011149
2-Jul-2031	6.831268	7.186630	10.669800	1.870910	25.649422	0.831944	0.009661	0.092492	0.034108	0.001949	0.001390	0.087029	0.000316	0.007858	0.003920	0.001116	0.011160
3-Jul-2031	7.518623	7.218580	10.705100	1.875260	25.747115	0.835625	0.009705	0.092933	0.034345	0.001985	0.001393	0.088641	0.000317	0.007922	0.003944	0.001120	0.011199
4-Jul-2031	8.429336	7.385050	11.016000	1.901150	26.269406	0.866839	0.010015	0.096042	0.034506	0.002028	0.001396	0.089006	0.000327	0.008033	0.004043	0.001145	0.011454
5-Jul-2031	8.767095	7.366980	10.967200	1.901000	26.223667	0.861461	0.009968	0.095545	0.034522	0.002037	0.001399	0.089503	0.000326	0.008036	0.004032	0.001142	0.011415
6-Jul-2031	8.549858	7.357920	10.955100	1.901000	26.201044	0.859941	0.009951	0.095378	0.034419	0.002027	0.001399	0.089032	0.000325	0.008017	0.004024	0.001140	0.011403
7-Jul-2031	8.595917	7.359320	10.959600	1.902410	26.210346	0.860196	0.009953	0.095396	0.034353	0.002024	0.001400	0.088911	0.000325	0.008010	0.004023	0.001140	0.011404
8-Jul-2031	9.101509	7.490290	11.200500	1.923230	26.623115	0.884281	0.010193	0.097793	0.034484	0.002062	0.001403	0.089180	0.000333	0.008101	0.004101	0.001160	0.011602
9-Jul-2031	10.204789	7.693800	11.554700	1.954750	27.261079	0.919955	0.010557	0.101429	0.034893	0.002145	0.001409	0.090844	0.000345	0.008280	0.004228	0.001190	0.011902
10-Jul-2031	11.109117	7.839460	11.820400	1.977090	27.716788	0.946634	0.010823	0.104099	0.035092	0.002189	0.001412	0.091276	0.000354	0.008389	0.004316	0.001212	0.012122
11-Jul-2031	12.181152	8.018390	12.148900	2.004710	28.277316	0.979580	0.011151	0.107383	0.035315	0.002242	0.001415	0.091690	0.000365	0.008518	0.004424	0.001239	0.012393
12-Jul-2031	12.353710	7.628730	11.443900	1.946170	27.063267	0.908690	0.010441	0.100273	0.034650	0.002117	0.001407	0.090223	0.000341	0.008211	0.004185	0.001180	0.011804

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Jul-2031	12.094113	7.845940	11.841000	1.979470	27.742770	0.948553	0.010839	0.104256	0.034947	0.002183	0.001411	0.090823	0.000355	0.008372	0.004317	0.001213	0.012133
14-Jul-2031	13.379058	8.283760	12.641000	2.046260	29.111047	1.028870	0.011640	0.112275	0.035565	0.002315	0.001420	0.092036	0.000381	0.008698	0.004582	0.001280	0.012796
15-Jul-2031	14.361996	9.465380	14.798200	2.226150	32.802340	1.245450	0.013801	0.133896	0.037263	0.002674	0.001444	0.095373	0.000454	0.009584	0.005300	0.001458	0.014585
16-Jul-2031	14.833260	8.411920	12.874700	2.066360	29.513835	1.052290	0.011874	0.114610	0.035718	0.002355	0.001423	0.092435	0.000389	0.008792	0.004660	0.001299	0.012988
17-Jul-2031	14.990740	8.439280	12.923500	2.071010	29.601301	1.057180	0.011923	0.115102	0.035746	0.002365	0.001424	0.092604	0.000391	0.008812	0.004676	0.001303	0.013029
18-Jul-2031	14.091294	8.030650	12.179600	2.009950	28.329507	0.982427	0.011177	0.107624	0.035060	0.002240	0.001415	0.091383	0.000366	0.008495	0.004426	0.001241	0.012407
19-Jul-2031	15.128823	8.384100	12.825000	2.064140	29.435226	1.047200	0.011823	0.114088	0.035545	0.002348	0.001422	0.092383	0.000388	0.008758	0.004640	0.001294	0.012942
20-Jul-2031	14.712704	7.998840	12.122900	2.006810	28.237147	0.976610	0.011118	0.107029	0.034903	0.002231	0.001414	0.091272	0.000364	0.008460	0.004405	0.001236	0.012356
21-Jul-2031	14.444933	8.263770	12.606400	2.047180	29.064921	1.025170	0.011603	0.111880	0.035284	0.002312	0.001420	0.092041	0.000380	0.008659	0.004565	0.001276	0.012757
22-Jul-2031	15.279944	8.225680	12.536700	2.041750	28.947449	1.018150	0.011533	0.111180	0.035210	0.002301	0.001419	0.091962	0.000378	0.008629	0.004542	0.001270	0.012698
23-Jul-2031	16.132965	8.273790	12.626500	2.050850	29.105054	1.027000	0.011620	0.112045	0.035166	0.002314	0.001420	0.092037	0.000381	0.008653	0.004569	0.001277	0.012768
24-Jul-2031	16.140904	8.234540	12.552800	2.045340	28.984357	1.019620	0.011547	0.111315	0.035100	0.002306	0.001420	0.092076	0.000379	0.008624	0.004545	0.001271	0.012706
25-Jul-2031	16.691196	8.237620	12.558600	2.046330	28.996124	1.020160	0.011553	0.111366	0.035073	0.002307	0.001420	0.092100	0.000379	0.008623	0.004546	0.001271	0.012709
26-Jul-2031	17.938979	8.376590	12.813500	2.067700	29.431134	1.045740	0.011807	0.113915	0.035252	0.002348	0.001423	0.092429	0.000387	0.008724	0.004630	0.001292	0.012920
27-Jul-2031	17.517121	8.364860	12.791900	2.066850	29.398344	1.043520	0.011785	0.113690	0.035182	0.002346	0.001422	0.092456	0.000387	0.008711	0.004622	0.001290	0.012900
28-Jul-2031	15.594987	8.456790	12.960800	2.080700	29.684927	1.060510	0.011954	0.115385	0.035305	0.002373	0.001424	0.092652	0.000392	0.008778	0.004678	0.001304	0.013041
29-Jul-2031	15.293002	8.623090	13.264800	2.106440	30.206176	1.091000	0.012259	0.118429	0.035518	0.002423	0.001427	0.093118	0.000402	0.008900	0.004778	0.001329	0.013292
30-Jul-2031	15.614627	8.660560	13.334300	2.112490	30.324652	1.097950	0.012328	0.119119	0.035544	0.002434	0.001428	0.093170	0.000405	0.008925	0.004801	0.001335	0.013348
31-Jul-2031	15.183340	8.556850	13.145600	2.098310	30.007295	1.078880	0.012137	0.117200	0.035308	0.002403	0.001426	0.092907	0.000398	0.008839	0.004736	0.001319	0.013187
1-Aug-2031	14.197988	8.526690	13.091800	2.093960	29.914072	1.073460	0.012082	0.116653	0.035223	0.002393	0.001425	0.092756	0.000397	0.008812	0.004717	0.001314	0.013142
2-Aug-2031	13.166302	8.843870	13.671500	2.142440	30.905711	1.131680	0.012663	0.122463	0.035657	0.002489	0.001432	0.093645	0.000416	0.009047	0.004909	0.001362	0.013622
3-Aug-2031	12.175148	8.685180	13.381800	2.119330	30.414295	1.102520	0.012371	0.119542	0.035369	0.002442	0.001429	0.093236	0.000406	0.008923	0.004812	0.001338	0.013380
4-Aug-2031	11.498487	8.657980	13.332200	2.116410	30.334352	1.097380	0.012319	0.119018	0.035273	0.002434	0.001429	0.093181	0.000405	0.008897	0.004794	0.001334	0.013336
5-Aug-2031	12.552073	8.781730	13.559100	2.137050	30.728352	1.119950	0.012543	0.121247	0.035361	0.002471	0.001431	0.093502	0.000412	0.008979	0.004867	0.001352	0.013520
6-Aug-2031	13.048831	8.915330	13.801700	2.157700	31.146988	1.144240	0.012786	0.123679	0.035552	0.002513	0.001435	0.093954	0.000420	0.009081	0.004948	0.001372	0.013722
7-Aug-2031	12.627017	8.947990	13.861200	2.163000	31.250365	1.150190	0.012845	0.124271	0.035592	0.002523	0.001435	0.094058	0.000422	0.009104	0.004967	0.001377	0.013772
8-Aug-2031	12.712508	9.568920	14.994400	2.258340	33.193437	1.263880	0.013979	0.135619	0.036460	0.002713	0.001448	0.095882	0.000460	0.009567	0.005344	0.001471	0.014711
9-Aug-2031	12.155006	8.963960	13.892900	2.167340	31.308114	1.153120	0.012872	0.124533	0.035493	0.002525	0.001436	0.093994	0.000423	0.009103	0.004974	0.001379	0.013794
10-Aug-2031	11.612681	9.084600	14.113500	2.186880	31.689818	1.175110	0.013090	0.126714	0.035608	0.002562	0.001439	0.094325	0.000431	0.009187	0.005046	0.001397	0.013975
11-Aug-2031	10.606183	8.939750	13.848900	2.166160	31.242803	1.148390	0.012823	0.124034	0.035341	0.002518	0.001436	0.093958	0.000422	0.009072	0.004957	0.001375	0.013754
12-Aug-2031	10.644035	9.017720	13.991600	2.179680	31.493169	1.162510	0.012963	0.125424	0.035380	0.002542	0.001438	0.094180	0.000427	0.009123	0.005002	0.001387	0.013869
13-Aug-2031	10.811608	9.369700	14.634300	2.233210	32.592500	1.227030	0.013606	0.131866	0.035886	0.002648	0.001446	0.095165	0.000448	0.009387	0.005216	0.001440	0.014403
14-Aug-2031	10.822169	9.036870	14.025900	2.184230	31.559724	1.165770	0.012994	0.125732	0.035329	0.002549	0.001439	0.094310	0.000428	0.009130	0.005012	0.001390	0.013895
15-Aug-2031	10.028425	9.116920	14.171500	2.197370	31.813719	1.180280	0.013138	0.127172	0.035405	0.002574	0.001441	0.094595	0.000433	0.009187	0.005060	0.001401	0.014015
16-Aug-2031	10.078928	9.365590	14.622500	2.237110	32.598297	1.225390	0.013587	0.131660	0.035701	0.002655	0.001447	0.095552	0.000448	0.009369	0.005210	0.001439	0.014386
17-Aug-2031	11.040221	9.352310	14.594800	2.237040	32.564849	1.222440	0.013557	0.131346	0.035603	0.002657	0.001447	0.095804	0.000447	0.009355	0.005200	0.001436	0.014359
18-Aug-2031	10.516108	9.211860	14.343900	2.215010	32.123426	1.197190	0.013304	0.128823	0.035395	0.002605	0.001444	0.094993	0.000438	0.009245	0.005114	0.001415	0.014152
19-Aug-2031	10.386140	9.230460	14.378900	2.218970	32.186177	1.200550	0.013337	0.129141	0.035360	0.002610	0.001445	0.094992	0.000440	0.009252	0.005124	0.001418	0.014179
20-Aug-2031	9.916711	9.276470	14.462500	2.227350	32.335573	1.208780	0.013417	0.129944	0.035369	0.002625	0.001446	0.095182	0.000442	0.009280	0.005151	0.001425	0.014246
21-Aug-2031	9.953915	9.370350	14.634300	2.241950	32.630114	1.225960	0.013589	0.131659	0.035489	0.002652	0.001448	0.095409	0.000448	0.009349	0.005207	0.001439	0.014389
22-Aug-2031	8.484691	9.388390	14.667100	2.245430	32.689491	1.229180	0.013620	0.131969	0.035481	0.002659	0.001449	0.095501	0.000449	0.009359	0.005218	0.001442	0.014415
23-Aug-2031	8.174083	9.417780	14.721800	2.250870	32.785279	1.234510	0.013672	0.132488	0.035473	0.002666	0.001450	0.095517	0.000451	0.009375	0.005234	0.001446	0.014459
24-Aug-2031	8.173253	9.619510	15.089700	2.282170	33.417893	1.271350	0.014040	0.136161	0.035747	0.002727	0.001454	0.096111	0.000463	0.009525	0.005356	0.001476	0.014764
25-Aug-2031	8.163524	10.556600	16.800400	2.424850	36.345363	1.443100	0.015753	0.153307	0.037098	0.003012	0.001474	0.098764	0.000521	0.010227	0.005925	0.001618	0.016183
26-Aug-2031	9.071447	10.112000	15.988800	2.358330	34.961267	1.361460	0.014938	0.145146	0.036425	0.002877	0.001465	0.097517	0.000493	0.009889	0.005654	0.001551	0.015509
27-Aug-2031	9.113784	10.504700	16.703800	2.420330	36.197155	1.433010	0.015649	0.152254	0.036899	0.003000	0.001473	0.098882	0.000517	0.010175	0.005890	0.001610	0.016097
28-Aug-2031	9.412517	9.611070	15.073100	2.285850	33.411972	1.269090	0.014012	0.135868	0.035506	0.002728	0.001456	0.096286	0.000463	0.009497	0.005346	0.001474	0.014741
29-Aug-2031	9.065327	9.645810	15.137800	2.291500	33.521985	1.275510	0.014076	0.136503	0.035532	0.002737	0.001456	0.096282	0.000465	0.009519	0.005366	0.001480	0.014795
30-Aug-2031	9.181251	10.245600	16.232500	2.383260	35.397528	1.385340	0.015172	0.147464	0.036381	0.002919	0.001469	0.098011	0.000502	0.009968	0.005730	0.001570	0.015703
31-Aug-2031	9.986206	10.206700	16.160900	2.378420	35.280463	1.378020	0.015098	0.146721	0.036300	0.002908	0.001469	0.097947	0.000499	0.009935	0.005705	0.001564	0.015643
1-Sep-2031	10.079482	10.459500	16.623200	2.417450	36.072431	1.424330	0.015559	0.151334	0.036627	0.002984	0.001474	0.098619	0.000515	0.010120	0.005858	0.001602	0.016024
2-Sep-2031	10.214292	10.005700	15.793000	2.350170	34.662233	1.340780	0.014724	0.142974	0.035908	0.002849	0.001465	0.097485	0.000487	0.009775	0.005581	0.001533	0.015334

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
3-Sep-2031	9.071120	9.914980	15.628900	2.336160	34.378012	1.324360	0.014560	0.141332	0.035764	0.002820	0.001463	0.097151	0.000481	0.009705	0.005526	0.001520	0.015197
4-Sep-2031	8.648365	10.191700	16.133500	2.378890	35.244944	1.375000	0.015064	0.146378	0.036119	0.002907	0.001469	0.098023	0.000498	0.009911	0.005693	0.001561	0.015614
5-Sep-2031	7.373858	9.921980	15.643600	2.337770	34.402121	1.325880	0.014573	0.141464	0.035688	0.002823	0.001463	0.097143	0.000482	0.009704	0.005529	0.001521	0.015205
6-Sep-2031	7.437309	10.087500	15.946000	2.363800	34.922616	1.356270	0.014875	0.144478	0.035861	0.002876	0.001466	0.097793	0.000492	0.009823	0.005629	0.001545	0.015452
7-Sep-2031	7.698024	10.039300	15.858100	2.356420	34.771870	1.347420	0.014787	0.143597	0.035794	0.002861	0.001465	0.097553	0.000489	0.009787	0.005600	0.001538	0.015379
8-Sep-2031	7.319070	10.061300	15.899300	2.359670	34.840187	1.351600	0.014828	0.144015	0.035816	0.002867	0.001465	0.097563	0.000490	0.009802	0.005613	0.001541	0.015413
9-Sep-2031	6.876941	10.101800	15.974300	2.366200	34.968206	1.359130	0.014902	0.144757	0.035841	0.002879	0.001466	0.097662	0.000493	0.009829	0.005637	0.001547	0.015473
10-Sep-2031	6.088369	10.145300	16.054000	2.373030	35.104952	1.367150	0.014982	0.145551	0.035881	0.002893	0.001466	0.097798	0.000496	0.009860	0.005663	0.001554	0.015539
11-Sep-2031	5.334298	10.188600	16.133900	2.379830	35.241074	1.375150	0.015061	0.146346	0.035924	0.002906	0.001467	0.097881	0.000498	0.009890	0.005689	0.001560	0.015604
12-Sep-2031	4.986323	10.212600	16.178900	2.383470	35.315992	1.379710	0.015106	0.146800	0.035946	0.002912	0.001467	0.097907	0.000500	0.009906	0.005704	0.001564	0.015640
13-Sep-2031	4.515466	10.275900	16.294800	2.393370	35.514820	1.391340	0.015222	0.147956	0.036018	0.002932	0.001468	0.098088	0.000504	0.009952	0.005742	0.001573	0.015735
14-Sep-2031	3.961421	10.312000	16.361700	2.398910	35.627775	1.398110	0.015289	0.148626	0.036048	0.002943	0.001469	0.098166	0.000506	0.009977	0.005764	0.001579	0.015790
15-Sep-2031	3.496614	10.373700	16.475000	2.408120	35.819767	1.409540	0.015403	0.149769	0.036136	0.002961	0.001470	0.098317	0.000510	0.010022	0.005801	0.001588	0.015883
16-Sep-2031	3.552761	10.874000	17.389300	2.484070	37.381778	1.501370	0.016319	0.158948	0.036871	0.003112	0.001480	0.099681	0.000540	0.010398	0.006105	0.001664	0.016643
17-Sep-2031	3.440212	10.624300	16.934700	2.446300	36.602741	1.455780	0.015863	0.154378	0.036459	0.003037	0.001474	0.098959	0.000525	0.010206	0.005953	0.001626	0.016262
18-Sep-2031	2.737821	10.634900	16.955900	2.447210	36.632956	1.458180	0.015886	0.154612	0.036452	0.003042	0.001473	0.098974	0.000526	0.010212	0.005960	0.001628	0.016278
19-Sep-2031	2.467045	10.624000	16.935800	2.445960	36.600591	1.456140	0.015865	0.154404	0.036417	0.003039	0.001473	0.098990	0.000525	0.010203	0.005953	0.001626	0.016260
20-Sep-2031	2.513266	10.886200	17.415400	2.485710	37.418995	1.504290	0.016346	0.159223	0.036831	0.003117	0.001478	0.099659	0.000541	0.010399	0.006113	0.001666	0.016659
21-Sep-2031	2.324838	10.710800	17.095900	2.459820	36.874406	1.472180	0.016024	0.155995	0.036490	0.003065	0.001475	0.099180	0.000531	0.010262	0.006005	0.001639	0.016391
22-Sep-2031	2.276348	10.673200	17.026400	2.455550	36.762935	1.465030	0.015951	0.155255	0.036360	0.003056	0.001474	0.099166	0.000528	0.010229	0.005981	0.001633	0.016329
23-Sep-2031	2.064645	10.717400	17.107900	2.462130	36.900399	1.473280	0.016033	0.156080	0.036422	0.003069	0.001475	0.099262	0.000531	0.010261	0.006008	0.001640	0.016397
24-Sep-2031	1.994834	10.879600	17.406100	2.487480	37.409804	1.503320	0.016330	0.159051	0.036596	0.003120	0.001478	0.099736	0.000541	0.010375	0.006106	0.001664	0.016638
25-Sep-2031	2.129367	11.610900	18.740800	2.597980	39.690899	1.637280	0.017669	0.172453	0.037701	0.003339	0.001493	0.101719	0.000586	0.010929	0.006551	0.001775	0.017750
26-Sep-2031	2.167349	10.928200	17.494400	2.494520	37.560149	1.512080	0.016420	0.159950	0.036700	0.003132	0.001479	0.099798	0.000544	0.010415	0.006136	0.001672	0.016716
27-Sep-2031	2.103488	10.923800	17.488400	2.493900	37.546609	1.511560	0.016414	0.159890	0.036663	0.003130	0.001478	0.099718	0.000544	0.010408	0.006133	0.001671	0.016709
28-Sep-2031	2.155122	11.459900	18.466400	2.575370	39.220744	1.609730	0.017394	0.169699	0.037456	0.003293	0.001490	0.101243	0.000576	0.010812	0.006458	0.001752	0.017521
29-Sep-2031	1.789605	10.996500	17.622600	2.504900	37.773439	1.525120	0.016548	0.161241	0.036747	0.003152	0.001479	0.099885	0.000548	0.010460	0.006177	0.001682	0.016819
30-Sep-2031	1.765016	11.326400	18.224400	2.555080	38.803840	1.585440	0.017152	0.167291	0.037279	0.003250	0.001487	0.100772	0.000568	0.010711	0.006377	0.001732	0.017322
1-Oct-2031	1.253690	10.869300	17.391700	2.486060	37.378237	1.501900	0.016316	0.158912	0.036516	0.003113	0.001477	0.099476	0.000541	0.010360	0.006099	0.001663	0.016625
2-Oct-2031	1.269984	10.818500	17.298900	2.478270	37.219310	1.492590	0.016223	0.157984	0.036449	0.003097	0.001476	0.099327	0.000537	0.010322	0.006068	0.001655	0.016548
3-Oct-2031	1.027583	10.754800	17.183800	2.468270	37.019071	1.481160	0.016108	0.156837	0.036357	0.003078	0.001474	0.099129	0.000534	0.010273	0.006029	0.001645	0.016451
4-Oct-2031	0.324899	10.706100	17.094900	2.460680	36.866212	1.472290	0.016020	0.155956	0.036280	0.003064	0.001472	0.099018	0.000531	0.010237	0.006000	0.001638	0.016378
5-Oct-2031	0.054472	10.683800	17.054600	2.456980	36.795292	1.468310	0.015980	0.155561	0.036252	0.003057	0.001472	0.098944	0.000529	0.010221	0.005987	0.001634	0.016345
6-Oct-2031	0.113247	10.669300	17.028800	2.454400	36.748461	1.465800	0.015955	0.155312	0.036235	0.003052	0.001471	0.098893	0.000528	0.010210	0.005978	0.001632	0.016323
7-Oct-2031	0.063052	10.663600	17.018000	2.453620	36.731016	1.464660	0.015944	0.155202	0.036235	0.003050	0.001471	0.098843	0.000528	0.010206	0.005975	0.001631	0.016315
8-Oct-2031	0.031375	10.619500	16.939200	2.446150	36.590137	1.457000	0.015867	0.154434	0.036160	0.003038	0.001469	0.098715	0.000525	0.010172	0.005949	0.001625	0.016248
9-Oct-2031	0.179867	10.603300	16.909800	2.443620	36.539267	1.454150	0.015838	0.154143	0.036120	0.003035	0.001468	0.098697	0.000525	0.010159	0.005939	0.001622	0.016222
10-Oct-2031	0.028370	10.609600	16.922100	2.444290	36.557757	1.455400	0.015850	0.154270	0.036132	0.003035	0.001468	0.098654	0.000525	0.010164	0.005943	0.001623	0.016232
11-Oct-2031	0.033410	10.563700	16.839400	2.436680	36.411807	1.447270	0.015769	0.153461	0.036069	0.003022	0.001467	0.098528	0.000522	0.010130	0.005915	0.001616	0.016163
12-Oct-2031	0.074210	10.540600	16.797500	2.432950	36.338766	1.443140	0.015728	0.153050	0.036036	0.003015	0.001466	0.098480	0.000521	0.010113	0.005902	0.001613	0.016129
13-Oct-2031	0.042197	10.528400	16.776400	2.430620	36.298708	1.441140	0.015707	0.152847	0.036011	0.003012	0.001465	0.098406	0.000520	0.010103	0.005895	0.001611	0.016110
14-Oct-2031	0.030255	10.505500	16.735600	2.426690	36.225343	1.437180	0.015667	0.152451	0.035975	0.003005	0.001464	0.098283	0.000519	0.010085	0.005881	0.001608	0.016075
15-Oct-2031	0.024758	10.491700	16.712100	2.424370	36.181331	1.435000	0.015645	0.152229	0.035951	0.003001	0.001463	0.098270	0.000518	0.010074	0.005873	0.001605	0.016055
16-Oct-2031	0.029639	10.489800	16.707300	2.424050	36.175269	1.434540	0.015640	0.152181	0.035948	0.003001	0.001463	0.098245	0.000518	0.010073	0.005872	0.001605	0.016051
17-Oct-2031	0.030907	10.503600	16.730100	2.427050	36.222081	1.436460	0.015661	0.152385	0.035982	0.003005	0.001465	0.098371	0.000519	0.010085	0.005880	0.001607	0.016072
18-Oct-2031	0.031863	10.591800	16.870800	2.447330	36.525830	1.448540	0.015793	0.153669	0.036293	0.003029	0.001477	0.099155	0.000523	0.010170	0.005929	0.001621	0.016208
19-Oct-2031	0.031231	10.668000	16.991900	2.466050	36.793190	1.458920	0.015906	0.154771	0.036558	0.003053	0.001489	0.100055	0.000527	0.010245	0.005972	0.001632	0.016324
20-Oct-2031	0.032084	10.699600	17.035900	2.474420	36.906563	1.462110	0.015945	0.155133	0.036687	0.003063	0.001495	0.100432	0.000528	0.010279	0.005988	0.001637	0.016371
21-Oct-2031	0.032984	10.728800	17.083700	2.480660	37.005171	1.466330	0.015990	0.155577	0.036788	0.003070	0.001499	0.100633	0.000529	0.010306	0.006005	0.001642	0.016416
22-Oct-2031	0.034557	10.725000	17.079600	2.479140	36.989424	1.466110	0.015987	0.155552	0.036781	0.003067	0.001497	0.100503	0.000529	0.010302	0.006003	0.001641	0.016412
23-Oct-2031	0.035176	10.758200	17.132100	2.486930	37.104403	1.470590	0.016036	0.156027	0.036893	0.003077	0.001502	0.100830	0.000531	0.010334	0.006021	0.001646	0.016462
24-Oct-2031	0.035793	10.794400	17.188200	2.495790	37.231280	1.475280	0.016088	0.156530	0.037022	0.003088	0.001508	0.101230	0.000533	0.010369	0.006041	0.001652	0.016517

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-Oct-2031	0.036096	10.866000	17.299900	2.513120	37.481430	1.484660	0.016191	0.157532	0.037274	0.003110	0.001519	0.102001	0.000536	0.010440	0.006081	0.001663	0.016626
26-Oct-2031	0.035454	10.909200	17.368800	2.523100	37.630398	1.490580	0.016256	0.158160	0.037420	0.003122	0.001525	0.102406	0.000538	0.010481	0.006105	0.001669	0.016692
27-Oct-2031	0.034368	10.939400	17.418300	2.529600	37.732575	1.494970	0.016303	0.158620	0.037518	0.003130	0.001528	0.102632	0.000540	0.010509	0.006122	0.001674	0.016739
28-Oct-2031	0.033577	10.986600	17.494800	2.540120	37.893754	1.501640	0.016375	0.159324	0.037675	0.003143	0.001534	0.103025	0.000542	0.010554	0.006149	0.001681	0.016811
29-Oct-2031	0.033813	10.998400	17.514500	2.542510	37.933061	1.503420	0.016394	0.159509	0.037712	0.003146	0.001536	0.103096	0.000543	0.010564	0.006156	0.001683	0.016830
30-Oct-2031	0.033983	11.042500	17.583900	2.552980	38.086294	1.509320	0.016458	0.160136	0.037861	0.003159	0.001542	0.103550	0.000545	0.010607	0.006180	0.001690	0.016897
31-Oct-2031	0.033253	11.084800	17.651000	2.562830	38.232480	1.515070	0.016521	0.160746	0.038006	0.003172	0.001548	0.103957	0.000547	0.010648	0.006204	0.001696	0.016961
1-Nov-2031	0.032237	11.132900	17.728000	2.573810	38.397801	1.521720	0.016593	0.161450	0.038169	0.003185	0.001555	0.104391	0.000549	0.010693	0.006231	0.001703	0.017035
2-Nov-2031	0.031627	11.177900	17.800200	2.584040	38.552293	1.527970	0.016661	0.162111	0.038320	0.003198	0.001561	0.104794	0.000552	0.010736	0.006256	0.001710	0.017104
3-Nov-2031	0.031139	11.198700	17.833300	2.588900	38.624244	1.530800	0.016692	0.162411	0.038389	0.003204	0.001564	0.105000	0.000553	0.010756	0.006268	0.001714	0.017136
4-Nov-2031	0.030033	11.216600	17.862200	2.592880	38.685330	1.533300	0.016719	0.162678	0.038457	0.003209	0.001566	0.105197	0.000554	0.010774	0.006278	0.001716	0.017164
5-Nov-2031	0.029181	11.247100	17.910500	2.599980	38.790726	1.537430	0.016764	0.163117	0.038562	0.003218	0.001570	0.105459	0.000555	0.010803	0.006295	0.001721	0.017210
6-Nov-2031	0.028895	11.279500	17.963300	2.607190	38.901320	1.542100	0.016814	0.163602	0.038664	0.003228	0.001575	0.105722	0.000557	0.010833	0.006313	0.001726	0.017259
7-Nov-2031	0.028276	11.318500	18.025800	2.616030	39.035106	1.547510	0.016873	0.164175	0.038785	0.003238	0.001580	0.106064	0.000559	0.010870	0.006335	0.001732	0.017319
8-Nov-2031	0.027834	11.359700	18.091700	2.625520	39.177062	1.553190	0.016935	0.164776	0.038927	0.003250	0.001585	0.106447	0.000561	0.010909	0.006358	0.001738	0.017382
9-Nov-2031	0.027710	11.398900	18.153300	2.634840	39.313324	1.558410	0.016992	0.165332	0.039066	0.003262	0.001591	0.106850	0.000563	0.010947	0.006380	0.001744	0.017441
10-Nov-2031	0.027080	11.438200	18.215800	2.644060	39.449424	1.563700	0.017050	0.165899	0.039205	0.003272	0.001597	0.107202	0.000565	0.010985	0.006402	0.001750	0.017502
11-Nov-2031	0.026689	11.484000	18.288400	2.654720	39.607685	1.569930	0.017118	0.166560	0.039361	0.003286	0.001603	0.107640	0.000567	0.011029	0.006428	0.001757	0.017572
12-Nov-2031	0.027044	11.511500	18.332300	2.661010	39.702255	1.573710	0.017159	0.166960	0.039454	0.003294	0.001607	0.107900	0.000568	0.011056	0.006443	0.001761	0.017614
13-Nov-2031	0.026887	11.556300	18.403700	2.671360	39.856742	1.579850	0.017226	0.167610	0.039607	0.003307	0.001613	0.108322	0.000570	0.011099	0.006468	0.001768	0.017683
14-Nov-2031	0.026850	11.595900	18.466800	2.680460	39.993097	1.585270	0.017285	0.168185	0.039742	0.003318	0.001619	0.108690	0.000572	0.011137	0.006490	0.001774	0.017743
15-Nov-2031	0.026197	11.634300	18.527900	2.689330	40.125508	1.590520	0.017343	0.168742	0.039872	0.003329	0.001624	0.109158	0.000574	0.011173	0.006512	0.001780	0.017802
16-Nov-2031	0.025899	11.664200	18.574500	2.696630	40.230230	1.594420	0.017386	0.169159	0.039978	0.003338	0.001630	0.109624	0.000576	0.011203	0.006528	0.001785	0.017847
17-Nov-2031	0.026061	11.716000	18.654200	2.709540	40.412738	1.601000	0.017459	0.169868	0.040167	0.003354	0.001637	0.109982	0.000578	0.011255	0.006557	0.001793	0.017926
18-Nov-2031	0.026236	11.773200	18.743400	2.723300	40.612230	1.608510	0.017542	0.170671	0.040369	0.003371	0.001646	0.110585	0.000581	0.011311	0.006589	0.001801	0.018013
19-Nov-2031	0.026349	11.817500	18.814000	2.733520	40.764933	1.614580	0.017608	0.171314	0.040521	0.003383	0.001652	0.110996	0.000583	0.011354	0.006613	0.001808	0.018081
20-Nov-2031	0.026607	11.860300	18.883500	2.743020	40.910925	1.620650	0.017674	0.171955	0.040664	0.003395	0.001657	0.111347	0.000585	0.011394	0.006638	0.001815	0.018147
21-Nov-2031	0.026788	11.894500	18.939300	2.750530	41.027249	1.625550	0.017726	0.172470	0.040777	0.003404	0.001662	0.111617	0.000587	0.011426	0.006657	0.001820	0.018199
22-Nov-2031	0.026849	11.927500	18.992100	2.758060	41.140659	1.630110	0.017776	0.172953	0.040890	0.003414	0.001667	0.112057	0.000589	0.011457	0.006675	0.001825	0.018250
23-Nov-2031	0.026874	11.970500	19.056200	2.770140	41.297775	1.635590	0.017836	0.173535	0.041064	0.003428	0.001675	0.112582	0.000591	0.011504	0.006698	0.001831	0.018314
24-Nov-2031	0.026843	12.023900	19.139000	2.782450	41.481807	1.642210	0.017911	0.174251	0.041247	0.003443	0.001682	0.113080	0.000593	0.011555	0.006728	0.001840	0.018396
25-Nov-2031	0.026750	12.023900	19.139600	2.782240	41.480943	1.642240	0.017911	0.174261	0.041244	0.003443	0.001682	0.113054	0.000593	0.011554	0.006728	0.001840	0.018396
26-Nov-2031	0.026717	12.075300	19.221500	2.794120	41.658210	1.649260	0.017988	0.175006	0.041420	0.003458	0.001689	0.113535	0.000596	0.011604	0.006757	0.001847	0.018475
27-Nov-2031	0.026638	12.134300	19.313600	2.808340	41.864091	1.657000	0.018073	0.175834	0.041630	0.003475	0.001698	0.114160	0.000598	0.011662	0.006790	0.001856	0.018564
28-Nov-2031	0.026622	12.176000	19.381000	2.817710	42.006802	1.662870	0.018137	0.176453	0.041769	0.003487	0.001704	0.114517	0.000601	0.011701	0.006813	0.001863	0.018629
29-Nov-2031	0.026520	12.208500	19.434100	2.824740	42.116904	1.667560	0.018187	0.176946	0.041873	0.003496	0.001708	0.114765	0.000602	0.011731	0.006832	0.001868	0.018679
30-Nov-2031	0.026427	12.239300	19.483700	2.831690	42.222432	1.671870	0.018234	0.177400	0.041976	0.003505	0.001712	0.115033	0.000604	0.011760	0.006849	0.001873	0.018726
1-Dec-2031	0.026282	12.287300	19.560400	2.842740	42.387791	1.678480	0.018306	0.178100	0.042140	0.003518	0.001718	0.115477	0.000606	0.011806	0.006876	0.001880	0.018799
2-Dec-2031	0.026154	12.331800	19.631400	2.852970	42.541035	1.684590	0.018372	0.178748	0.042291	0.003531	0.001724	0.115889	0.000608	0.011849	0.006901	0.001887	0.018867
3-Dec-2031	0.026030	12.367500	19.688000	2.861250	42.664275	1.689440	0.018425	0.179263	0.042413	0.003541	0.001729	0.116228	0.000610	0.011883	0.006921	0.001892	0.018922
4-Dec-2031	0.025918	12.430000	19.786600	2.876000	42.881078	1.697820	0.018517	0.180155	0.042631	0.003559	0.001738	0.116852	0.000613	0.011944	0.006956	0.001902	0.019017
5-Dec-2031	0.025894	12.473200	19.855900	2.885870	43.029593	1.703800	0.018582	0.180789	0.042778	0.003572	0.001744	0.117243	0.000615	0.011985	0.006980	0.001908	0.019083
6-Dec-2031	0.025873	12.508200	19.912500	2.893700	43.149232	1.708730	0.018635	0.181308	0.042894	0.003581	0.001749	0.117540	0.000617	0.012018	0.007000	0.001914	0.019137
7-Dec-2031	0.025865	12.552800	19.983900	2.903830	43.302314	1.714910	0.018703	0.181962	0.043044	0.003594	0.001755	0.117937	0.000619	0.012061	0.007025	0.001921	0.019205
8-Dec-2031	0.025890	12.596000	20.053100	2.913750	43.451035	1.720880	0.018767	0.182594	0.043191	0.003606	0.001761	0.118332	0.000621	0.012102	0.007049	0.001927	0.019272
9-Dec-2031	0.025885	12.639000	20.121600	2.923640	43.599133	1.726770	0.018832	0.183218	0.043338	0.003619	0.001767	0.118730	0.000624	0.012143	0.007073	0.001934	0.019337
10-Dec-2031	0.025815	12.682200	20.190300	2.933660	43.748265	1.732650	0.018896	0.183843	0.043487	0.003631	0.001773	0.119140	0.000626	0.012185	0.007097	0.001940	0.019404
11-Dec-2031	0.025774	12.743000	20.286500	2.947920	43.958806	1.740850	0.018986	0.184716	0.043698	0.003649	0.001782	0.119735	0.000629	0.012244	0.007131	0.001950	0.019496
12-Dec-2031	0.025728	12.795300	20.369400	2.960160	44.139803	1.747940	0.019063	0.185469	0.043879	0.003664	0.001789	0.120242	0.000631	0.012294	0.007160	0.001958	0.019576
13-Dec-2031	0.025681	12.831700	20.427400	2.968520	44.265120	1.752920	0.019117	0.185997	0.044002	0.003674	0.001794	0.120580	0.000633	0.012329	0.007181	0.001963	0.019632
14-Dec-2031	0.025661	12.883200	20.509400	2.980490	44.443008	1.759950	0.019194	0.186743	0.044180	0.003689	0.001801	0.121068	0.000636	0.012379	0.007210	0.001971	0.019711
15-Dec-2031	0.025631	12.938300	20.597000	2.993220	44.633015	1.767460	0.019276	0.187540	0.044368	0.003705	0.001809	0.121585	0.000638	0.012431	0.007240	0.001980	0.019795

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16-Dec-2031	0.025607	12.976900	20.658700	3.002110	44.766008	1.772770	0.019334	0.188103	0.044500	0.003716	0.001814	0.121943	0.000640	0.012468	0.007262	0.001985	0.019854
17-Dec-2031	0.025570	13.016800	20.722200	3.011310	44.903524	1.778230	0.019393	0.188682	0.044636	0.003727	0.001820	0.122315	0.000642	0.012507	0.007284	0.001992	0.019915
18-Dec-2031	0.025562	13.009600	20.711500	3.009390	44.877639	1.777390	0.019384	0.188590	0.044609	0.003725	0.001819	0.122215	0.000642	0.012499	0.007280	0.001990	0.019904
19-Dec-2031	0.025530	13.051000	20.777400	3.019000	45.020589	1.783040	0.019445	0.189189	0.044751	0.003737	0.001824	0.122607	0.000644	0.012539	0.007304	0.001997	0.019968
20-Dec-2031	0.025520	13.098100	20.852300	3.029920	45.183166	1.789450	0.019515	0.189871	0.044913	0.003750	0.001831	0.123072	0.000646	0.012584	0.007330	0.002004	0.020040
21-Dec-2031	0.025516	13.144700	20.926500	3.040720	45.344001	1.795820	0.019585	0.190546	0.045073	0.003764	0.001838	0.123515	0.000649	0.012629	0.007356	0.002011	0.020111
22-Dec-2031	0.025501	13.193500	21.004100	3.052000	45.512306	1.802470	0.019657	0.191252	0.045240	0.003778	0.001844	0.123964	0.000651	0.012676	0.007383	0.002019	0.020186
23-Dec-2031	0.025501	13.248600	21.090800	3.065090	45.703795	1.809820	0.019738	0.192036	0.045433	0.003794	0.001853	0.124511	0.000654	0.012730	0.007414	0.002027	0.020270
24-Dec-2031	0.025497	13.296300	21.167600	3.075830	45.867129	1.816490	0.019810	0.192740	0.045593	0.003807	0.001859	0.124941	0.000656	0.012775	0.007441	0.002034	0.020343
25-Dec-2031	0.025470	13.351400	21.255200	3.088580	46.057218	1.824010	0.019892	0.193538	0.045782	0.003823	0.001867	0.125442	0.000659	0.012828	0.007472	0.002043	0.020427
26-Dec-2031	0.025439	13.406400	21.341900	3.101650	46.248376	1.831350	0.019973	0.194321	0.045975	0.003839	0.001875	0.126001	0.000661	0.012882	0.007502	0.002051	0.020511
27-Dec-2031	0.025422	13.455800	21.421500	3.112770	46.417519	1.838280	0.020048	0.195052	0.046140	0.003853	0.001881	0.126427	0.000664	0.012928	0.007530	0.002059	0.020587
28-Dec-2031	0.025379	13.511700	21.509300	3.126070	46.611871	1.845700	0.020130	0.195844	0.046336	0.003869	0.001889	0.126999	0.000667	0.012983	0.007561	0.002067	0.020672
29-Dec-2031	0.025347	13.558400	21.583700	3.136820	46.772750	1.852100	0.020199	0.196522	0.046495	0.003882	0.001896	0.127432	0.000669	0.013028	0.007587	0.002074	0.020744
30-Dec-2031	0.025311	13.609700	21.665700	3.148650	46.949562	1.859180	0.020276	0.197270	0.046671	0.003897	0.001903	0.127909	0.000671	0.013077	0.007616	0.002082	0.020822
31-Dec-2031	0.025270	13.689400	21.792300	3.167160	47.224797	1.870000	0.020395	0.198422	0.046945	0.003920	0.001914	0.128666	0.000675	0.013154	0.007661	0.002094	0.020944
1-Jan-2032	0.025258	13.744700	21.880300	3.179900	47.415344	1.877560	0.020477	0.199224	0.047134	0.003936	0.001922	0.129181	0.000678	0.013206	0.007692	0.002103	0.021029
2-Jan-2032	0.025224	13.794900	21.960400	3.191480	47.588380	1.884440	0.020552	0.199953	0.047305	0.003950	0.001929	0.129650	0.000681	0.013255	0.007720	0.002111	0.021106
3-Jan-2032	0.025186	13.867700	22.076300	3.208370	47.839715	1.894380	0.020660	0.201008	0.047555	0.003971	0.001939	0.130337	0.000684	0.013325	0.007760	0.002122	0.021217
4-Jan-2032	0.025171	13.937900	22.187900	3.224600	48.081839	1.903950	0.020765	0.202024	0.047796	0.003991	0.001949	0.130997	0.000688	0.013392	0.007800	0.002132	0.021324
5-Jan-2032	0.025128	13.981500	22.257500	3.234670	48.232177	1.909930	0.020830	0.202658	0.047945	0.004004	0.001955	0.131405	0.000690	0.013434	0.007824	0.002139	0.021391
6-Jan-2032	0.025098	14.047100	22.362000	3.249830	48.458409	1.918910	0.020928	0.203610	0.048170	0.004022	0.001964	0.132019	0.000693	0.013497	0.007861	0.002149	0.021491
7-Jan-2032	0.025089	14.127400	22.489700	3.268410	48.735430	1.929860	0.021047	0.204772	0.048445	0.004045	0.001975	0.132776	0.000697	0.013574	0.007906	0.002161	0.021614
8-Jan-2032	0.025047	14.170000	22.557500	3.278320	48.882612	1.935670	0.021111	0.205389	0.048592	0.004058	0.001981	0.133182	0.000699	0.013615	0.007930	0.002168	0.021679
9-Jan-2032	0.024998	14.204400	22.612300	3.286230	49.001082	1.940380	0.021162	0.205889	0.048709	0.004067	0.001986	0.133500	0.000701	0.013648	0.007949	0.002173	0.021732
10-Jan-2032	0.024979	14.274000	22.723100	3.302340	49.241214	1.949890	0.021266	0.206898	0.048948	0.004087	0.001996	0.134155	0.000704	0.013715	0.007988	0.002184	0.021839
11-Jan-2032	0.024970	14.343900	22.834300	3.318550	49.482507	1.959420	0.021370	0.207909	0.049188	0.004107	0.002006	0.134816	0.000708	0.013782	0.008027	0.002195	0.021945
12-Jan-2032	0.024945	14.370500	22.876700	3.324680	49.574171	1.963070	0.021409	0.208296	0.049278	0.004115	0.002009	0.135063	0.000709	0.013808	0.008042	0.002199	0.021986
13-Jan-2032	0.024923	14.437100	22.982800	3.340070	49.803847	1.972170	0.021509	0.209262	0.049507	0.004134	0.002019	0.135688	0.000712	0.013872	0.008079	0.002209	0.022088
14-Jan-2032	0.024902	14.513500	23.104400	3.357770	50.067506	1.982610	0.021622	0.210369	0.049769	0.004156	0.002029	0.136408	0.000716	0.013945	0.008122	0.002220	0.022205
15-Jan-2032	0.024877	14.571300	23.196300	3.371110	50.266767	1.990500	0.021709	0.211206	0.049967	0.004173	0.002037	0.136949	0.000719	0.014001	0.008154	0.002229	0.022293
16-Jan-2032	0.024828	14.603600	23.247400	3.378700	50.378676	1.994850	0.021756	0.211669	0.050079	0.004182	0.002042	0.137267	0.000720	0.014032	0.008172	0.002234	0.022343
17-Jan-2032	0.024799	14.663100	23.341700	3.392610	50.584529	2.002900	0.021844	0.212525	0.050284	0.004199	0.002051	0.137844	0.000723	0.014089	0.008205	0.002243	0.022434
18-Jan-2032	0.024768	14.681800	23.371600	3.396920	50.648971	2.005470	0.021872	0.212798	0.050348	0.004204	0.002053	0.138017	0.000724	0.014107	0.008216	0.002246	0.022462
19-Jan-2032	0.024747	14.759400	23.494900	3.414920	50.916862	2.016040	0.021988	0.213920	0.050615	0.004227	0.002064	0.138753	0.000728	0.014182	0.008259	0.002258	0.022581
20-Jan-2032	0.024737	14.834500	23.615700	3.431890	51.174270	2.026520	0.022101	0.215027	0.050867	0.004248	0.002074	0.139411	0.000732	0.014253	0.008301	0.002270	0.022696
21-Jan-2032	0.024737	14.937100	23.779000	3.455690	51.528470	2.040520	0.022254	0.216512	0.051220	0.004277	0.002089	0.140381	0.000737	0.014352	0.008359	0.002285	0.022853
22-Jan-2032	0.024729	15.051000	23.960300	3.482040	51.921388	2.056080	0.022424	0.218164	0.051610	0.004310	0.002104	0.141451	0.000743	0.014461	0.008423	0.002303	0.023027
23-Jan-2032	0.024719	15.182800	24.170000	3.512590	52.376297	2.074060	0.022620	0.220072	0.052063	0.004348	0.002123	0.142697	0.000749	0.014588	0.008496	0.002323	0.023229
24-Jan-2032	0.024700	15.279200	24.323100	3.534960	52.709128	2.087180	0.022763	0.221465	0.052394	0.004375	0.002136	0.143612	0.000754	0.014681	0.008550	0.002338	0.023376
25-Jan-2032	0.024675	15.404000	24.521700	3.563830	53.139640	2.104220	0.022949	0.223273	0.052822	0.004411	0.002154	0.144786	0.000760	0.014801	0.008620	0.002357	0.023567
26-Jan-2032	0.024647	15.511800	24.693400	3.588770	53.511519	2.118950	0.023110	0.224836	0.053192	0.004442	0.002169	0.145798	0.000765	0.014904	0.008680	0.002373	0.023732
27-Jan-2032	0.024627	15.580600	24.803100	3.604660	53.748748	2.128370	0.023212	0.225835	0.053427	0.004462	0.002179	0.146442	0.000769	0.014970	0.008719	0.002384	0.023837
28-Jan-2032	0.024612	15.656500	24.923900	3.622190	54.010459	2.138740	0.023325	0.226936	0.053687	0.004483	0.002189	0.147152	0.000772	0.015043	0.008761	0.002395	0.023954
29-Jan-2032	0.024602	15.735300	25.049400	3.640400	54.282211	2.149520	0.023443	0.228079	0.053957	0.004506	0.002200	0.147891	0.000776	0.015119	0.008806	0.002407	0.024074
30-Jan-2032	0.024594	15.814000	25.174700	3.658600	54.553673	2.160270	0.023560	0.229220	0.054226	0.004528	0.002211	0.148629	0.000780	0.015195	0.008850	0.002419	0.024195
31-Jan-2032	0.024588	15.892300	25.299400	3.676730	54.823847	2.170980	0.023677	0.230356	0.054495	0.004551	0.002222	0.149366	0.000784	0.015270	0.008893	0.002431	0.024314
1-Feb-2032	0.024584	15.953100	25.396100	3.690780	55.033523	2.179270	0.023767	0.231236	0.054703	0.004568	0.002231	0.149937	0.000787	0.015328	0.008927	0.002441	0.024407
2-Feb-2032	0.024579	16.011900	25.489700	3.704380	55.236351	2.187310	0.023855	0.232088	0.054905	0.004585	0.002239	0.150489	0.000790	0.015385	0.008960	0.002450	0.024497
3-Feb-2032	0.024576	16.085700	25.607200	3.721460	55.490965	2.197390	0.023965	0.233158	0.055158	0.004606	0.002249	0.151183	0.000794	0.015456	0.009002	0.002461	0.024610
4-Feb-2032	0.024575	16.194400	25.780300	3.746620	55.865998	2.212250	0.024127	0.234735	0.055531	0.004637	0.002264	0.152205	0.000799	0.015560	0.009062	0.002478	0.024777
5-Feb-2032	0.024574	16.312500	25.968200	3.773920	56.273315	2.228370	0.024303	0.236445	0.055936	0.004671	0.002281	0.153314	0.000805	0.015673	0.009129	0.002496	0.024957

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Feb-2032	0.024573	16.434900	26.163100	3.802240	56.695570	2.245090	0.024485	0.238219	0.056355	0.004706	0.002298	0.154465	0.000811	0.015791	0.009197	0.002514	0.025144
7-Feb-2032	0.024572	16.417100	26.134500	3.798200	56.634486	2.242620	0.024458	0.237958	0.056295	0.004701	0.002296	0.154306	0.000810	0.015774	0.009187	0.002512	0.025117
8-Feb-2032	0.024572	16.540500	26.331000	3.826750	57.060185	2.259480	0.024642	0.239747	0.056718	0.004737	0.002313	0.155466	0.000816	0.015893	0.009256	0.002531	0.025306
9-Feb-2032	0.024571	16.665600	26.530400	3.855620	57.491446	2.276620	0.024829	0.241564	0.057146	0.004772	0.002330	0.156633	0.000822	0.016013	0.009326	0.002550	0.025497
10-Feb-2032	0.024571	16.893000	26.892500	3.908230	58.275912	2.307680	0.025168	0.244861	0.057926	0.004837	0.002362	0.158770	0.000833	0.016231	0.009453	0.002585	0.025845
11-Feb-2032	0.024571	17.133600	27.275400	3.963890	59.105898	2.340540	0.025526	0.248348	0.058751	0.004906	0.002396	0.161031	0.000845	0.016462	0.009588	0.002621	0.026213
12-Feb-2032	0.024570	17.378300	27.665000	4.020490	59.949993	2.373970	0.025891	0.251894	0.059590	0.004976	0.002430	0.163331	0.000857	0.016698	0.009725	0.002659	0.026588
13-Feb-2032	0.024570	17.559400	27.953100	4.062480	60.575114	2.398680	0.026160	0.254517	0.060212	0.005028	0.002455	0.165042	0.000866	0.016872	0.009826	0.002686	0.026865
14-Feb-2032	0.024570	17.784700	28.311800	4.114610	61.352360	2.429460	0.026496	0.257783	0.060985	0.005093	0.002487	0.167160	0.000877	0.017088	0.009952	0.002721	0.027210
15-Feb-2032	0.024571	18.023900	28.692500	4.169940	62.177491	2.462130	0.026852	0.261249	0.061805	0.005161	0.002520	0.169408	0.000889	0.017318	0.010086	0.002758	0.027575
16-Feb-2032	0.024570	18.272100	29.087600	4.227360	63.033702	2.496030	0.027222	0.264847	0.062656	0.005232	0.002555	0.171741	0.000901	0.017557	0.010225	0.002796	0.027955
17-Feb-2032	0.024570	18.508000	29.463100	4.281930	63.847464	2.528250	0.027573	0.268266	0.063465	0.005300	0.002588	0.173958	0.000913	0.017783	0.010357	0.002832	0.028316
18-Feb-2032	0.024570	18.736700	29.827200	4.334840	64.636411	2.559490	0.027914	0.271580	0.064249	0.005365	0.002620	0.176107	0.000924	0.018003	0.010485	0.002867	0.028666
19-Feb-2032	0.024570	18.967900	30.195400	4.388340	65.434030	2.591090	0.028259	0.274933	0.065042	0.005432	0.002652	0.178281	0.000936	0.018225	0.010615	0.002902	0.029020
20-Feb-2032	0.024570	19.196300	30.558800	4.441170	66.221899	2.622280	0.028599	0.278242	0.065825	0.005497	0.002684	0.180427	0.000947	0.018444	0.010742	0.002937	0.029369
21-Feb-2032	0.024569	19.424600	30.922400	4.494000	67.009518	2.653480	0.028939	0.281553	0.066608	0.005563	0.002716	0.182573	0.000958	0.018664	0.010870	0.002972	0.029719
22-Feb-2032	0.024569	19.647800	31.277600	4.545630	67.779461	2.683960	0.029271	0.284787	0.067373	0.005626	0.002747	0.184670	0.000969	0.018878	0.010995	0.003006	0.030060
23-Feb-2032	0.024570	19.856000	31.609000	4.593790	68.497659	2.712400	0.029582	0.287804	0.068087	0.005686	0.002776	0.186627	0.000980	0.019078	0.011111	0.003038	0.030378
24-Feb-2032	0.024570	20.066600	31.944400	4.642530	69.224239	2.741170	0.029895	0.290858	0.068809	0.005746	0.002806	0.188607	0.000990	0.019281	0.011229	0.003070	0.030701
25-Feb-2032	0.024570	20.282600	32.288200	4.692510	69.969408	2.770680	0.030217	0.293989	0.069550	0.005808	0.002836	0.190638	0.001001	0.019488	0.011350	0.003103	0.031031
26-Feb-2032	0.024569	18.485700	29.427900	4.276700	63.770244	2.525260	0.027540	0.267947	0.063387	0.005294	0.002585	0.173739	0.000912	0.017762	0.010345	0.002828	0.028282
27-Feb-2032	0.024569	18.663900	29.711500	4.317920	64.384953	2.549590	0.027806	0.270529	0.063998	0.005345	0.002610	0.175413	0.000921	0.017933	0.010444	0.002855	0.028555
28-Feb-2032	0.024569	18.843500	29.997500	4.359480	65.004558	2.574130	0.028074	0.273133	0.064614	0.005396	0.002635	0.177102	0.000930	0.018105	0.010545	0.002883	0.028829
29-Feb-2032	0.024569	19.024300	30.285300	4.401310	65.628272	2.598830	0.028343	0.275754	0.065234	0.005448	0.002660	0.178801	0.000939	0.018279	0.010646	0.002911	0.029106
1-Mar-2032	0.024569	19.205100	30.573100	4.443120	66.251903	2.623520	0.028612	0.278373	0.065854	0.005500	0.002685	0.180499	0.000947	0.018453	0.010747	0.002938	0.029383
2-Mar-2032	0.024569	19.386400	30.861800	4.485080	66.877400	2.648300	0.028882	0.281002	0.066476	0.005551	0.002711	0.182204	0.000956	0.018627	0.010849	0.002966	0.029660
3-Mar-2032	0.024569	19.569000	31.152400	4.527310	67.507256	2.673240	0.029154	0.283648	0.067102	0.005604	0.002736	0.183920	0.000965	0.018802	0.010951	0.002994	0.029939
4-Mar-2032	0.024568	19.752500	31.444600	4.569780	68.140347	2.698310	0.029428	0.286309	0.067731	0.005656	0.002762	0.185645	0.000974	0.018979	0.011054	0.003022	0.030220
5-Mar-2032	0.024568	19.937200	31.738600	4.612500	68.777463	2.723540	0.029703	0.288986	0.068364	0.005709	0.002788	0.187380	0.000984	0.019156	0.011157	0.003050	0.030503
6-Mar-2032	0.024568	20.123100	32.034500	4.655500	69.418730	2.748930	0.029980	0.291680	0.069002	0.005762	0.002814	0.189127	0.000993	0.019335	0.011261	0.003079	0.030787
7-Mar-2032	0.024568	20.310400	32.332700	4.698840	70.064892	2.774520	0.030259	0.294395	0.069644	0.005816	0.002840	0.190888	0.001002	0.019515	0.011366	0.003107	0.031074
8-Mar-2032	0.024568	20.499200	32.633200	4.742510	70.716159	2.800300	0.030540	0.297131	0.070291	0.005870	0.002866	0.192662	0.001011	0.019696	0.011471	0.003136	0.031363
9-Mar-2032	0.024568	20.689500	32.936200	4.786550	71.372694	2.826310	0.030824	0.299890	0.070944	0.005925	0.002893	0.194451	0.001021	0.019879	0.011578	0.003165	0.031654
10-Mar-2032	0.024568	20.882500	33.243400	4.831190	72.038443	2.852670	0.031111	0.302687	0.071606	0.005980	0.002920	0.196264	0.001030	0.020064	0.011686	0.003195	0.031949
11-Mar-2032	0.024568	21.078300	33.555100	4.876490	72.713901	2.879420	0.031403	0.305525	0.072277	0.006036	0.002947	0.198105	0.001040	0.020253	0.011796	0.003225	0.032249
12-Mar-2032	0.024568	21.276400	33.870600	4.922330	73.397326	2.906490	0.031698	0.308398	0.072957	0.006093	0.002975	0.199967	0.001050	0.020443	0.011906	0.003255	0.032552
13-Mar-2032	0.024568	21.476400	34.188900	4.968590	74.087224	2.933800	0.031996	0.311296	0.073642	0.006150	0.003003	0.201846	0.001060	0.020635	0.012018	0.003286	0.032858
14-Mar-2032	0.024568	21.678000	34.509800	5.015240	74.782724	2.961340	0.032296	0.314218	0.074334	0.006208	0.003031	0.203741	0.001069	0.020829	0.012131	0.003317	0.033166
15-Mar-2032	0.024568	21.880900	34.832800	5.062170	75.482623	2.989060	0.032599	0.317159	0.075029	0.006266	0.003059	0.205648	0.001079	0.021024	0.012245	0.003348	0.033476
16-Mar-2032	0.024568	22.085700	35.158900	5.109570	76.189202	3.017040	0.032904	0.320128	0.075732	0.006324	0.003088	0.207573	0.001090	0.021221	0.012359	0.003379	0.033790
17-Mar-2032	0.024568	22.292100	35.487400	5.157300	76.901135	3.045220	0.033211	0.323119	0.076439	0.006384	0.003117	0.209512	0.001100	0.021419	0.012475	0.003411	0.034106
18-Mar-2032	0.024568	22.499900	35.818300	5.205390	77.618046	3.073620	0.033521	0.326132	0.077152	0.006443	0.003146	0.211466	0.001110	0.021619	0.012591	0.003442	0.034424
19-Mar-2032	0.024568	22.709500	36.151900	5.253870	78.341058	3.102250	0.033833	0.329169	0.077871	0.006503	0.003175	0.213435	0.001120	0.021820	0.012708	0.003474	0.034744
20-Mar-2032	0.024567	22.920800	36.488300	5.302760	79.070003	3.131110	0.034148	0.332232	0.078595	0.006564	0.003205	0.215421	0.001131	0.022023	0.012827	0.003507	0.035067
21-Mar-2032	0.024567	23.133900	36.827600	5.352070	79.805173	3.160230	0.034466	0.335322	0.079326	0.006625	0.003235	0.217425	0.001141	0.022228	0.012946	0.003539	0.035394
22-Mar-2032	0.024567	23.349000	37.169900	5.401820	80.547148	3.189610	0.034786	0.338439	0.080063	0.006686	0.003265	0.219446	0.001152	0.022434	0.013066	0.003572	0.035723
23-Mar-2032	0.024567	23.566000	37.515400	5.452030	81.295762	3.219250	0.035109	0.341585	0.080808	0.006748	0.003295	0.221485	0.001163	0.022643	0.013188	0.003605	0.036055
24-Mar-2032	0.024567	23.784900	37.863900	5.502670	82.050890	3.249160	0.035435	0.344757	0.081558	0.006811	0.003326	0.223543	0.001173	0.022853	0.013310	0.003639	0.036390
25-Mar-2032	0.024567	24.005700	38.215400	5.553750	82.812575	3.279320	0.035764	0.347958	0.082315	0.006874	0.003357	0.225618	0.001184	0.023065	0.013434	0.003673	0.036727
26-Mar-2032	0.024567	24.228300	38.569800	5.605260	83.580526	3.309730	0.036096	0.351185	0.083079	0.006938	0.003388	0.227710	0.001195	0.023279	0.013558	0.003707	0.037068
27-Mar-2032	0.024567	24.453000	38.927400	5.657230	84.355614	3.340420	0.036431	0.354441	0.083849	0.007002	0.003419	0.229822	0.001206	0.023495	0.013684	0.003741	0.037412
28-Mar-2032	0.024567	24.679800	39.288500	5.709700	85.138005	3.371410	0.036769	0.357729	0.084627	0.007067	0.003451	0.231953	0.001218	0.023713	0.013811	0.003776	0.037759

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
29-Mar-2032	0.024567	24.908800	39.653000	5.762670	85.927949	3.402680	0.037110	0.361048	0.085412	0.007133	0.003483	0.234105	0.001229	0.023933	0.013939	0.003811	0.038109
30-Mar-2032	0.024567	25.139900	40.020900	5.816150	86.725236	3.434260	0.037454	0.364398	0.086204	0.007199	0.003515	0.236277	0.001240	0.024155	0.014068	0.003846	0.038463
31-Mar-2032	0.024566	25.370000	40.387200	5.869380	87.518997	3.465690	0.037797	0.367733	0.086993	0.007265	0.003547	0.238440	0.001252	0.024376	0.014197	0.003881	0.038815
1-Apr-2032	0.024566	25.534700	40.649500	5.907500	88.087231	3.488200	0.038042	0.370121	0.087558	0.007312	0.003570	0.239988	0.001260	0.024534	0.014289	0.003907	0.039067
2-Apr-2032	0.024566	25.317400	40.303500	5.857220	87.337580	3.458510	0.037719	0.366971	0.086813	0.007250	0.003540	0.237946	0.001249	0.024326	0.014168	0.003873	0.038734
3-Apr-2032	0.024566	25.072400	39.913400	5.800520	86.492324	3.425030	0.037353	0.363419	0.085973	0.007180	0.003506	0.235643	0.001237	0.024090	0.014031	0.003836	0.038359
4-Apr-2032	0.024565	24.855000	39.567400	5.750230	85.742382	3.395340	0.037030	0.360268	0.085228	0.007117	0.003475	0.233600	0.001226	0.023881	0.013909	0.003803	0.038027
5-Apr-2032	0.024565	24.658800	39.255000	5.704840	85.065555	3.368540	0.036737	0.357424	0.084555	0.007061	0.003448	0.231756	0.001217	0.023693	0.013799	0.003773	0.037727
6-Apr-2032	0.024565	24.480400	38.971000	5.663560	84.450099	3.344160	0.036471	0.354838	0.083943	0.007010	0.003423	0.230079	0.001208	0.023521	0.013699	0.003745	0.037454
7-Apr-2032	0.024565	24.317400	38.711600	5.625860	83.887839	3.321900	0.036229	0.352476	0.083384	0.006963	0.003400	0.228547	0.001200	0.023365	0.013608	0.003720	0.037204
8-Apr-2032	0.024565	24.168000	38.473700	5.591290	83.372428	3.301490	0.036006	0.350310	0.082872	0.006921	0.003379	0.227143	0.001192	0.023221	0.013525	0.003698	0.036976
9-Apr-2032	0.024565	24.030300	38.254600	5.559450	82.897474	3.282690	0.035801	0.348315	0.082400	0.006881	0.003360	0.225849	0.001186	0.023089	0.013448	0.003677	0.036765
10-Apr-2032	0.024565	23.904000	38.053500	5.530230	82.461775	3.265430	0.035613	0.346484	0.081967	0.006845	0.003342	0.224662	0.001179	0.022968	0.013377	0.003657	0.036572
11-Apr-2032	0.024565	23.819500	37.918900	5.510720	82.170436	3.253870	0.035487	0.345258	0.081677	0.006821	0.003331	0.223873	0.001175	0.022886	0.013330	0.003644	0.036442
12-Apr-2032	0.024565	23.769000	37.838500	5.499040	81.996240	3.246970	0.035412	0.344526	0.081504	0.006807	0.003323	0.223399	0.001173	0.022838	0.013301	0.003637	0.036365
13-Apr-2032	0.024565	23.724900	37.768300	5.488840	81.844118	3.240950	0.035346	0.343887	0.081353	0.006794	0.003317	0.222984	0.001170	0.022796	0.013277	0.003630	0.036298
14-Apr-2032	0.024565	23.682800	37.701200	5.479080	81.698803	3.235190	0.035283	0.343275	0.081208	0.006782	0.003311	0.222588	0.001168	0.022755	0.013253	0.003623	0.036233
15-Apr-2032	0.024565	23.638800	37.631200	5.468910	81.547055	3.229180	0.035218	0.342638	0.081058	0.006769	0.003305	0.222175	0.001166	0.022713	0.013228	0.003617	0.036166
16-Apr-2032	0.024565	23.595600	37.562400	5.458920	81.398046	3.223280	0.035153	0.342012	0.080909	0.006757	0.003299	0.221769	0.001164	0.022671	0.013204	0.003610	0.036100
17-Apr-2032	0.024565	23.554300	37.496600	5.449360	81.255552	3.217640	0.035092	0.341413	0.080768	0.006745	0.003293	0.221380	0.001162	0.022632	0.013181	0.003604	0.036037
18-Apr-2032	0.024565	23.515000	37.434100	5.440260	81.119946	3.212270	0.035033	0.340843	0.080633	0.006734	0.003288	0.221011	0.001160	0.022594	0.013159	0.003598	0.035977
19-Apr-2032	0.024565	23.477600	37.374500	5.431610	80.990937	3.207160	0.034977	0.340301	0.080505	0.006723	0.003283	0.220659	0.001158	0.022558	0.013138	0.003592	0.035919
20-Apr-2032	0.024565	23.442000	37.317900	5.423390	80.868194	3.202300	0.034924	0.339786	0.080383	0.006713	0.003278	0.220325	0.001156	0.022524	0.013118	0.003586	0.035865
21-Apr-2032	0.024565	23.408400	37.264400	5.415600	80.752216	3.197700	0.034874	0.339298	0.080267	0.006703	0.003273	0.220009	0.001155	0.022491	0.013099	0.003581	0.035813
22-Apr-2032	0.024565	23.376500	37.213600	5.408220	80.642170	3.193340	0.034827	0.338836	0.080158	0.006694	0.003269	0.219709	0.001153	0.022461	0.013082	0.003576	0.035765
23-Apr-2032	0.024565	23.349100	37.169900	5.401920	80.547809	3.189580	0.034786	0.338437	0.080065	0.006686	0.003265	0.219456	0.001152	0.022435	0.013066	0.003572	0.035723
24-Apr-2032	0.024565	23.344000	37.161800	5.400740	80.530215	3.188890	0.034778	0.338364	0.080047	0.006685	0.003264	0.219408	0.001152	0.022430	0.013063	0.003571	0.035715
25-Apr-2032	0.024565	23.338300	37.152700	5.399420	80.510547	3.188110	0.034770	0.338281	0.080028	0.006683	0.003263	0.219354	0.001151	0.022424	0.013060	0.003571	0.035706
26-Apr-2032	0.024562	22.923100	36.491900	5.303290	79.077929	3.131430	0.034151	0.332266	0.078603	0.006564	0.003205	0.215443	0.001131	0.022025	0.012828	0.003507	0.035071
27-Apr-2032	0.024562	22.887700	36.435600	5.295100	78.955809	3.126600	0.034099	0.331753	0.078482	0.006554	0.003200	0.215110	0.001129	0.021991	0.012808	0.003502	0.035017
28-Apr-2032	0.024562	22.853900	36.381800	5.287280	78.839207	3.121980	0.034048	0.331263	0.078366	0.006544	0.003195	0.214792	0.001127	0.021959	0.012789	0.003497	0.034965
29-Apr-2032	0.024585	22.816200	36.321800	5.278570	78.709203	3.116830	0.033992	0.330717	0.078237	0.006534	0.003190	0.214438	0.001126	0.021922	0.012768	0.003491	0.034908
30-Apr-2032	0.024821	22.731600	36.187100	5.258990	78.417326	3.105270	0.033866	0.329491	0.077946	0.006509	0.003178	0.213643	0.001121	0.021841	0.012721	0.003478	0.034778
1-May-2032	0.026454	23.118700	36.803100	5.348610	79.752970	3.158110	0.034443	0.335098	0.079275	0.006620	0.003233	0.217290	0.001141	0.022213	0.012937	0.003537	0.035370
2-May-2032	0.032231	22.381300	35.629300	5.178010	77.209151	3.057390	0.033344	0.324410	0.076746	0.006409	0.003129	0.210359	0.001104	0.021505	0.012525	0.003424	0.034242
3-May-2032	0.038679	22.221300	35.374400	5.141040	76.657389	3.035500	0.033105	0.322088	0.076198	0.006363	0.003107	0.208861	0.001096	0.021351	0.012435	0.003400	0.033997
4-May-2032	0.044428	21.716100	34.570200	5.024160	74.914593	2.966490	0.032353	0.314766	0.074466	0.006219	0.003037	0.204112	0.001071	0.020866	0.012152	0.003322	0.033224
5-May-2032	0.049812	21.357300	33.998900	4.941150	73.676834	2.917470	0.031818	0.309564	0.073235	0.006116	0.002986	0.200741	0.001054	0.020521	0.011952	0.003268	0.032675
6-May-2032	0.054983	20.995300	33.422700	4.857400	72.428037	2.868030	0.031279	0.304318	0.071994	0.006012	0.002936	0.197338	0.001036	0.020173	0.011749	0.003212	0.032122
7-May-2032	0.060215	20.658800	32.887300	4.779430	71.266716	2.822110	0.030778	0.299445	0.070839	0.005916	0.002889	0.194161	0.001019	0.019849	0.011561	0.003161	0.031607
8-May-2032	0.064578	20.478800	32.600800	4.737790	70.645783	2.797530	0.030510	0.296836	0.070222	0.005864	0.002863	0.192470	0.001010	0.019677	0.011460	0.003133	0.031331
9-May-2032	0.069597	20.262000	32.255700	4.687630	69.897874	2.767920	0.030187	0.293695	0.069478	0.005802	0.002833	0.190431	0.001000	0.019468	0.011339	0.003100	0.031000
10-May-2032	0.074132	20.093000	31.986700	4.648530	69.314868	2.744830	0.029935	0.291245	0.068899	0.005754	0.002809	0.188842	0.000991	0.019306	0.011244	0.003074	0.030741
11-May-2032	0.079535	19.944800	31.750700	4.614240	68.803606	2.724580	0.029714	0.289096	0.068390	0.005711	0.002789	0.187450	0.000984	0.019163	0.011161	0.003051	0.030514
12-May-2032	0.088169	19.708400	31.374500	4.559560	67.988143	2.692290	0.029362	0.285670	0.067580	0.005644	0.002756	0.185229	0.000972	0.018936	0.011029	0.003015	0.030153
13-May-2032	0.096201	19.504800	31.050300	4.512450	67.285755	2.664480	0.029059	0.282719	0.066882	0.005585	0.002727	0.183315	0.000962	0.018741	0.010915	0.002984	0.029841
14-May-2032	0.113000	19.056600	30.336800	4.408760	65.739604	2.603250	0.028391	0.276222	0.065345	0.005457	0.002665	0.179102	0.000940	0.018310	0.010664	0.002916	0.029156
15-May-2032	0.133417	18.347300	29.207600	4.244670	63.292759	2.506360	0.027334	0.265941	0.062913	0.005254	0.002565	0.172437	0.000905	0.017629	0.010267	0.002807	0.028070
16-May-2032	0.162719	18.176900	28.936400	4.205240	62.704898	2.483080	0.027080	0.263471	0.062328	0.005205	0.002542	0.170834	0.000897	0.017465	0.010172	0.002781	0.027810
17-May-2032	0.168532	18.041400	28.720700	4.173900	62.237496	2.464570	0.026879	0.261508	0.061864	0.005166	0.002523	0.169561	0.000890	0.017335	0.010096	0.002760	0.027602
18-May-2032	0.175939	17.831100	28.385800	4.125230	61.511954	2.435830	0.026565	0.258458	0.061142	0.005106	0.002493	0.167584	0.000880	0.017133	0.009978	0.002728	0.027280
19-May-2032	0.189765	17.154700	27.309000	3.968780	59.178722	2.343430	0.025557	0.248653	0.058824	0.004912	0.002399	0.161230	0.000846	0.016483	0.009600	0.002625	0.026246

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
20-May-2032	0.182255	16.742100	26.652200	3.873320	57.755355	2.287060	0.024943	0.242673	0.057409	0.004794	0.002341	0.157352	0.000826	0.016086	0.009369	0.002561	0.025614
21-May-2032	0.183436	16.307300	25.960100	3.772710	56.255348	2.227670	0.024295	0.236371	0.055918	0.004670	0.002280	0.153263	0.000804	0.015668	0.009126	0.002495	0.024949
22-May-2032	0.185506	16.077500	25.594300	3.719560	55.462666	2.196280	0.023953	0.233040	0.055130	0.004604	0.002248	0.151104	0.000793	0.015448	0.008997	0.002460	0.024598
23-May-2032	0.191171	15.744900	25.064700	3.642620	54.315324	2.150830	0.023457	0.228218	0.053990	0.004509	0.002202	0.147979	0.000777	0.015128	0.008811	0.002409	0.024089
24-May-2032	0.199504	15.305700	24.365400	3.541020	52.800253	2.090820	0.022803	0.221850	0.052484	0.004383	0.002140	0.143852	0.000755	0.014706	0.008565	0.002342	0.023417
25-May-2032	0.207210	15.012900	23.899400	3.473300	51.790261	2.050830	0.022366	0.217607	0.051481	0.004299	0.002099	0.141102	0.000741	0.014425	0.008401	0.002297	0.022969
26-May-2032	0.220955	14.649600	23.320900	3.389290	50.537147	2.001170	0.021825	0.212339	0.050236	0.004195	0.002048	0.137690	0.000723	0.014076	0.008198	0.002241	0.022413
27-May-2032	0.227872	14.463900	23.025300	3.346320	49.896504	1.975810	0.021548	0.209647	0.049599	0.004142	0.002022	0.135944	0.000714	0.013898	0.008094	0.002213	0.022129
28-May-2032	0.246639	14.329900	22.811900	3.315340	49.434330	1.957480	0.021348	0.207703	0.049141	0.004103	0.002004	0.134687	0.000707	0.013769	0.008019	0.002192	0.021924
29-May-2032	0.272801	14.274100	22.722800	3.302460	49.241958	1.949830	0.021265	0.206891	0.048950	0.004087	0.001996	0.134165	0.000704	0.013715	0.007988	0.002184	0.021838
30-May-2032	0.304259	14.186000	22.582600	3.282140	48.938295	1.937780	0.021134	0.205613	0.048649	0.004062	0.001984	0.133343	0.000700	0.013631	0.007938	0.002170	0.021703
31-May-2032	0.351658	14.098800	22.443600	3.262030	48.637743	1.925830	0.021004	0.204346	0.048351	0.004037	0.001972	0.132530	0.000696	0.013547	0.007890	0.002157	0.021570
1-Jun-2032	0.409886	13.975500	22.247000	3.233550	48.212582	1.908940	0.020819	0.202555	0.047929	0.004002	0.001955	0.131377	0.000689	0.013429	0.007821	0.002138	0.021381
2-Jun-2032	0.499486	13.795100	21.959700	3.191880	47.590527	1.884270	0.020550	0.199937	0.047313	0.003950	0.001929	0.129687	0.000681	0.013256	0.007720	0.002111	0.021105
3-Jun-2032	0.540149	13.636200	21.706300	3.155230	47.042829	1.862480	0.020313	0.197627	0.046774	0.003905	0.001907	0.128203	0.000673	0.013104	0.007631	0.002086	0.020862
4-Jun-2032	0.679818	13.490900	21.473400	3.122110	46.543626	1.842310	0.020094	0.195493	0.046298	0.003863	0.001888	0.126881	0.000665	0.012966	0.007549	0.002064	0.020640
5-Jun-2032	0.725750	13.298300	21.161800	3.078970	45.885054	1.815070	0.019800	0.192621	0.045706	0.003807	0.001864	0.125191	0.000656	0.012787	0.007440	0.002035	0.020347
6-Jun-2032	0.732422	13.116400	20.862800	3.039640	45.268888	1.788430	0.019515	0.189835	0.045216	0.003753	0.001843	0.123705	0.000646	0.012624	0.007337	0.002007	0.020072
7-Jun-2032	0.738051	12.854800	20.430700	2.983640	44.385065	1.749720	0.019103	0.185806	0.044540	0.003674	0.001815	0.121611	0.000633	0.012391	0.007189	0.001968	0.019678
8-Jun-2032	0.741872	12.691400	20.161000	2.948570	43.832637	1.725500	0.018845	0.183276	0.044109	0.003626	0.001797	0.120322	0.000624	0.012246	0.007096	0.001943	0.019431
9-Jun-2032	0.737474	12.474300	19.801600	2.902300	43.099999	1.693190	0.018502	0.179909	0.043568	0.003562	0.001774	0.118642	0.000613	0.012056	0.006972	0.001910	0.019103
10-Jun-2032	0.725435	12.242400	19.416800	2.853170	42.318627	1.658460	0.018133	0.176301	0.043004	0.003492	0.001750	0.116847	0.000600	0.011853	0.006840	0.001875	0.018753
11-Jun-2032	0.734178	11.997600	19.004100	2.803070	41.501049	1.620420	0.017733	0.172358	0.042495	0.003417	0.001728	0.115100	0.000587	0.011646	0.006700	0.001839	0.018386
12-Jun-2032	0.765650	11.786700	18.646300	2.760560	40.799376	1.587150	0.017384	0.168919	0.042089	0.003352	0.001710	0.113627	0.000576	0.011471	0.006579	0.001807	0.018070
13-Jun-2032	0.813751	11.615500	18.351300	2.727130	40.234225	1.559210	0.017093	0.166023	0.041865	0.003298	0.001698	0.112545	0.000566	0.011334	0.006480	0.001781	0.017814
14-Jun-2032	0.872028	11.423500	18.024400	2.688590	39.596093	1.528650	0.016772	0.162858	0.041501	0.003239	0.001682	0.111234	0.000555	0.011175	0.006369	0.001753	0.017526
15-Jun-2032	0.931015	11.287200	17.785500	2.662960	39.150208	1.505590	0.016533	0.160476	0.041404	0.003196	0.001674	0.110491	0.000548	0.011072	0.006290	0.001732	0.017322
16-Jun-2032	0.988373	11.083400	17.430200	2.623920	38.480552	1.471640	0.016181	0.156975	0.041131	0.003133	0.001661	0.109339	0.000536	0.010914	0.006172	0.001702	0.017017
17-Jun-2032	1.069043	10.925300	17.161500	2.591860	37.953754	1.446680	0.015920	0.154399	0.040769	0.003085	0.001647	0.108290	0.000527	0.010783	0.006081	0.001678	0.016779
18-Jun-2032	1.182810	10.769600	16.896900	2.560190	37.434554	1.422630	0.015665	0.151923	0.040387	0.003039	0.001633	0.107262	0.000519	0.010654	0.005992	0.001654	0.016544
19-Jun-2032	1.298862	10.641400	16.678200	2.534420	37.008317	1.401740	0.015451	0.149776	0.040034	0.003001	0.001623	0.106439	0.000512	0.010550	0.005918	0.001635	0.016350
20-Jun-2032	1.432899	10.478200	16.398200	2.502000	36.467301	1.375500	0.015178	0.147088	0.039724	0.002951	0.001610	0.105428	0.000503	0.010418	0.005824	0.001611	0.016105
21-Jun-2032	1.640695	10.389300	16.243800	2.484610	36.173706	1.360910	0.015027	0.145595	0.039575	0.002925	0.001603	0.104947	0.000498	0.010349	0.005773	0.001597	0.015971
22-Jun-2032	1.885847	10.233500	15.976300	2.453670	35.657263	1.335840	0.014767	0.143033	0.039283	0.002879	0.001591	0.103994	0.000489	0.010223	0.005684	0.001574	0.015737
23-Jun-2032	2.139240	10.083800	15.708900	2.426130	35.170052	1.310680	0.014506	0.140475	0.039154	0.002835	0.001584	0.103399	0.000480	0.010116	0.005597	0.001551	0.015514
24-Jun-2032	2.366151	9.944100	15.458900	2.400580	34.716006	1.286150	0.014256	0.137978	0.039022	0.002793	0.001577	0.102842	0.000472	0.010016	0.005515	0.001530	0.015304
25-Jun-2032	2.488987	9.719500	15.074700	2.357960	33.979671	1.250680	0.013891	0.134376	0.038732	0.002727	0.001563	0.101782	0.000460	0.009848	0.005386	0.001497	0.014968
26-Jun-2032	2.694565	9.544010	14.757800	2.323760	33.400637	1.219190	0.013571	0.131179	0.038466	0.002677	0.001551	0.100888	0.000449	0.009713	0.005285	0.001470	0.014704
27-Jun-2032	2.862574	9.391260	14.482400	2.296230	32.905851	1.191930	0.013299	0.128417	0.038340	0.002632	0.001544	0.100358	0.000440	0.009607	0.005196	0.001448	0.014475
28-Jun-2032	2.948503	9.239900	14.222900	2.265930	32.403130	1.167730	0.013048	0.125956	0.038020	0.002588	0.001532	0.099448	0.000431	0.009485	0.005109	0.001425	0.014246
29-Jun-2032	3.034919	9.030690	13.861200	2.225500	31.714242	1.134640	0.012705	0.122610	0.037709	0.002528	0.001518	0.098448	0.000420	0.009326	0.004989	0.001393	0.013932
30-Jun-2032	5.202623	6.922430	10.033600	1.843460	24.876676	0.761126	0.008939	0.085099	0.035360	0.001962	0.001425	0.093152	0.000294	0.007901	0.003770	0.001072	0.010723
1-Jul-2032	5.220035	7.065600	10.395100	1.848790	25.256120	0.802192	0.009287	0.088744	0.034779	0.001961	0.001418	0.091373	0.000306	0.007874	0.003859	0.001095	0.010951
2-Jul-2032	5.475050	7.263640	10.754800	1.882130	25.887920	0.837476	0.009638	0.092253	0.034696	0.002016	0.001402	0.090329	0.000318	0.008016	0.003976	0.001125	0.011251
3-Jul-2032	6.128033	8.008950	12.104600	1.996120	28.218370	0.972874	0.010997	0.105839	0.035871	0.002251	0.001419	0.092701	0.000363	0.008593	0.004430	0.001238	0.012377
4-Jul-2032	7.136412	7.888760	11.896300	1.978090	27.844008	0.951925	0.010780	0.103674	0.035550	0.002204	0.001415	0.091660	0.000356	0.008482	0.004355	0.001220	0.012197
5-Jul-2032	7.402080	7.626610	11.408500	1.938860	27.027871	0.902860	0.010297	0.098835	0.035242	0.002133	0.001412	0.091410	0.000340	0.008299	0.004196	0.001180	0.011797
6-Jul-2032	8.083955	7.962490	12.009600	1.990590	28.079587	0.963200	0.010908	0.104949	0.035842	0.002247	0.001422	0.093554	0.000360	0.008570	0.004402	0.001230	0.012301
7-Jul-2032	8.458634	7.936930	11.973800	1.987630	28.003575	0.959468	0.010864	0.104505	0.035618	0.002229	0.001419	0.092383	0.000359	0.008527	0.004383	0.001226	0.012264
8-Jul-2032	9.085443	7.575140	11.306500	1.933810	26.878554	0.892351	0.010199	0.097848	0.035101	0.002126	0.001413	0.091744	0.000337	0.008262	0.004163	0.001171	0.011713
9-Jul-2032	9.868666	7.670620	11.479500	1.949070	27.179808	0.909621	0.010373	0.099581	0.035221	0.002155	0.001415	0.092081	0.000343	0.008333	0.004221	0.001186	0.011856
10-Jul-2032	11.383238	7.929030	11.948400	1.989110	27.989943	0.956641	0.010845	0.104301	0.035598	0.002237	0.001421	0.092977	0.000358	0.008529	0.004377	0.001225	0.012246

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Jul-2032	12.185131	8.234060	12.485000	2.037830	28.952232	1.010410	0.011397	0.109811	0.036138	0.002350	0.001431	0.095251	0.000376	0.008783	0.004564	0.001270	0.012698
12-Jul-2032	12.825681	7.756820	11.618500	1.965730	27.463656	0.923303	0.010524	0.101079	0.035371	0.002200	0.001421	0.093395	0.000347	0.008414	0.004272	0.001198	0.011975
13-Jul-2032	12.857146	8.345420	12.701800	2.054660	29.299604	1.032060	0.011603	0.111881	0.036166	0.002370	0.001432	0.094557	0.000383	0.008844	0.004629	0.001287	0.012872
14-Jul-2032	13.673463	8.097630	12.247500	2.017850	28.529288	0.986362	0.011149	0.107335	0.035793	0.002296	0.001427	0.093964	0.000368	0.008657	0.004478	0.001250	0.012495
15-Jul-2032	13.097433	8.008340	12.081800	2.004970	28.253291	0.969691	0.010985	0.105689	0.035647	0.002272	0.001426	0.093889	0.000363	0.008592	0.004423	0.001236	0.012358
16-Jul-2032	13.099742	8.167810	12.372000	2.029910	28.754191	0.998754	0.011276	0.108603	0.035863	0.002322	0.001430	0.094397	0.000372	0.008710	0.004520	0.001260	0.012598
17-Jul-2032	13.357658	8.411340	12.816000	2.067360	29.516504	1.043290	0.011721	0.113053	0.036204	0.002396	0.001435	0.095116	0.000387	0.008892	0.004667	0.001297	0.012967
18-Jul-2032	13.907240	8.148710	12.336800	2.028860	28.702174	0.995013	0.011239	0.108231	0.035753	0.002316	0.001430	0.094378	0.000371	0.008688	0.004506	0.001257	0.012567
19-Jul-2032	12.683715	8.039620	12.139800	2.013640	28.367101	0.975079	0.011039	0.106224	0.035500	0.002281	0.001428	0.093978	0.000365	0.008596	0.004438	0.001240	0.012400
20-Jul-2032	12.017050	8.089870	12.229900	2.022280	28.528154	0.984046	0.011130	0.107130	0.035541	0.002298	0.001430	0.094227	0.000368	0.008632	0.004468	0.001247	0.012474
21-Jul-2032	11.461344	8.141050	12.319500	2.031240	28.692848	0.992980	0.011222	0.108050	0.035590	0.002319	0.001431	0.094624	0.000371	0.008671	0.004498	0.001255	0.012548
22-Jul-2032	11.465246	8.184810	12.395800	2.039200	28.834896	1.000570	0.011301	0.108833	0.035619	0.002336	0.001433	0.095012	0.000373	0.008704	0.004524	0.001261	0.012610
23-Jul-2032	11.590029	8.210580	12.443500	2.043770	28.918063	1.005260	0.011347	0.109298	0.035624	0.002343	0.001434	0.095051	0.000375	0.008720	0.004539	0.001265	0.012649
24-Jul-2032	11.463381	8.267310	12.548600	2.052970	29.097604	1.015730	0.011451	0.110334	0.035667	0.002359	0.001435	0.095101	0.000378	0.008757	0.004573	0.001274	0.012735
25-Jul-2032	11.186458	8.395990	12.782700	2.072840	29.500742	1.039200	0.011686	0.112684	0.035850	0.002399	0.001438	0.095518	0.000386	0.008854	0.004651	0.001293	0.012929
26-Jul-2032	11.213788	8.491440	12.955200	2.088120	29.802004	1.056480	0.011860	0.114423	0.035968	0.002430	0.001440	0.095907	0.000392	0.008925	0.004708	0.001307	0.013072
27-Jul-2032	11.817077	8.850970	13.610700	2.144680	30.932664	1.122110	0.012516	0.120980	0.036399	0.002540	0.001448	0.097006	0.000414	0.009188	0.004925	0.001361	0.013612
28-Jul-2032	12.216394	9.583860	14.948500	2.255650	33.219665	1.256520	0.013858	0.134412	0.037493	0.002763	0.001463	0.099087	0.000458	0.009741	0.005370	0.001472	0.014724
29-Jul-2032	12.508338	9.699030	15.158700	2.273780	33.581904	1.277530	0.014068	0.136517	0.037650	0.002798	0.001466	0.099404	0.000465	0.009825	0.005440	0.001490	0.014899
30-Jul-2032	12.765456	9.432830	14.674200	2.233120	32.749765	1.228830	0.013580	0.131637	0.037258	0.002715	0.001460	0.098545	0.000449	0.009624	0.005278	0.001450	0.014497
31-Jul-2032	13.287662	9.287370	14.410300	2.212090	32.299950	1.202220	0.013314	0.128966	0.036972	0.002669	0.001458	0.098060	0.000440	0.009506	0.005188	0.001427	0.014275
1-Aug-2032	14.038883	8.668690	13.279900	2.120390	30.377485	1.088560	0.012181	0.117620	0.035958	0.002484	0.001446	0.096596	0.000403	0.009032	0.004810	0.001333	0.013332
2-Aug-2032	13.915700	9.019900	13.920900	2.173540	31.473328	1.152890	0.012823	0.124051	0.036505	0.002589	0.001453	0.097404	0.000424	0.009298	0.005023	0.001387	0.013866
3-Aug-2032	14.147340	8.861180	13.628700	2.150970	30.984061	1.123470	0.012532	0.121126	0.036208	0.002545	0.001450	0.097159	0.000414	0.009175	0.004926	0.001362	0.013622
4-Aug-2032	14.313206	9.252840	14.342600	2.212340	32.214758	1.194960	0.013246	0.128269	0.036709	0.002666	0.001459	0.098369	0.000438	0.009463	0.005162	0.001421	0.014212
5-Aug-2032	13.860127	9.078160	14.024900	2.185690	31.668837	1.162970	0.012926	0.125061	0.036462	0.002610	0.001456	0.097755	0.000427	0.009331	0.005056	0.001395	0.013949
6-Aug-2032	13.940058	9.153470	14.160900	2.199140	31.912273	1.176420	0.013061	0.126409	0.036504	0.002635	0.001458	0.098102	0.000432	0.009381	0.005099	0.001406	0.014060
7-Aug-2032	13.704237	9.360700	14.541500	2.230950	32.560720	1.214550	0.013440	0.130200	0.036772	0.002695	0.001462	0.098541	0.000445	0.009532	0.005225	0.001437	0.014375
8-Aug-2032	13.445929	9.186960	14.224700	2.206190	32.024930	1.182600	0.013120	0.126995	0.036414	0.002643	0.001459	0.098073	0.000434	0.009392	0.005117	0.001411	0.014108
9-Aug-2032	12.912638	9.107530	14.076600	2.196320	31.785948	1.167560	0.012972	0.125500	0.036207	0.002623	0.001458	0.098097	0.000429	0.009327	0.005067	0.001398	0.013982
10-Aug-2032	12.916283	9.795020	15.331800	2.300920	33.933354	1.293560	0.014229	0.138081	0.037205	0.002832	0.001472	0.100020	0.000471	0.009843	0.005485	0.001502	0.015024
11-Aug-2032	12.426710	9.139100	14.132900	2.203180	31.893028	1.172970	0.013026	0.126035	0.036177	0.002635	0.001460	0.098298	0.000431	0.009344	0.005084	0.001403	0.014027
12-Aug-2032	12.344038	9.068430	14.006800	2.194140	31.679338	1.160060	0.012895	0.124717	0.035968	0.002610	0.001459	0.097940	0.000427	0.009278	0.005039	0.001392	0.013918
13-Aug-2032	11.817687	9.250200	14.338200	2.222060	32.248192	1.193270	0.013227	0.128035	0.036233	0.002665	0.001463	0.098464	0.000438	0.009415	0.005149	0.001419	0.014194
14-Aug-2032	11.068527	9.305050	14.436700	2.231600	32.424439	1.203090	0.013325	0.129015	0.036260	0.002685	0.001464	0.098768	0.000441	0.009453	0.005181	0.001427	0.014274
15-Aug-2032	10.477108	9.385660	14.582700	2.245590	32.683333	1.217570	0.013470	0.130455	0.036306	0.002711	0.001466	0.099115	0.000446	0.009507	0.005229	0.001439	0.014393
16-Aug-2032	10.918717	9.284260	14.399400	2.231460	32.371950	1.198980	0.013283	0.128577	0.036082	0.002678	0.001465	0.098722	0.000440	0.009422	0.005165	0.001424	0.014237
17-Aug-2032	11.129677	9.838070	15.409700	2.317170	34.107767	1.300260	0.014293	0.138683	0.036839	0.002848	0.001477	0.100366	0.000474	0.009832	0.005500	0.001507	0.015074
18-Aug-2032	11.521731	9.978060	15.660200	2.340930	34.555166	1.325270	0.014543	0.141177	0.036954	0.002899	0.001480	0.101186	0.000482	0.009934	0.005584	0.001528	0.015278
19-Aug-2032	11.665860	10.418900	16.463600	2.408140	35.932714	1.405950	0.015349	0.149236	0.037580	0.003035	0.001489	0.102531	0.000509	0.010266	0.005852	0.001594	0.015944
20-Aug-2032	11.919467	9.920950	15.557600	2.332340	34.377188	1.314840	0.014439	0.140131	0.036854	0.002877	0.001479	0.100863	0.000479	0.009889	0.005549	0.001519	0.015194
21-Aug-2032	12.226838	10.001600	15.704400	2.345520	34.632847	1.329480	0.014585	0.141586	0.036931	0.002903	0.001481	0.101136	0.000484	0.009946	0.005597	0.001532	0.015315
22-Aug-2032	12.265271	9.593320	14.957600	2.285690	33.366991	1.254220	0.013833	0.134057	0.036244	0.002781	0.001474	0.100108	0.000459	0.009631	0.005347	0.001469	0.014693
23-Aug-2032	11.344117	9.470850	14.732200	2.269770	32.995625	1.231340	0.013604	0.131748	0.035929	0.002748	0.001472	0.099966	0.000451	0.009530	0.005270	0.001450	0.014500
24-Aug-2032	11.169740	10.147400	15.967400	2.373110	35.110525	1.355290	0.014840	0.144121	0.036888	0.002953	0.001486	0.101869	0.000492	0.010035	0.005680	0.001552	0.015524
25-Aug-2032	11.585756	10.010200	15.717700	2.352680	34.683806	1.330110	0.014589	0.141602	0.036679	0.002909	0.001484	0.101414	0.000484	0.009930	0.005596	0.001532	0.015318
26-Aug-2032	11.656950	10.438900	16.497700	2.419140	36.027952	1.408350	0.015370	0.149409	0.037243	0.003045	0.001493	0.102857	0.000510	0.010250	0.005856	0.001596	0.015963
27-Aug-2032	12.037060	10.388900	16.408100	2.412140	35.874276	1.399170	0.015278	0.148486	0.037155	0.003025	0.001492	0.102564	0.000507	0.010208	0.005824	0.001589	0.015889
28-Aug-2032	11.538425	9.648210	15.049900	2.303430	33.577105	1.262500	0.013912	0.134810	0.035901	0.002812	0.001479	0.101003	0.000462	0.009642	0.005371	0.001475	0.014755
29-Aug-2032	10.744275	9.823470	15.374300	2.329470	34.121962	1.295040	0.014237	0.138056	0.036168	0.002858	0.001482	0.101160	0.000473	0.009770	0.005478	0.001503	0.015026
30-Aug-2032	9.854749	9.865220	15.449300	2.336650	34.255779	1.302470	0.014311	0.138794	0.036197	0.002872	0.001483	0.101369	0.000475	0.009800	0.005502	0.001509	0.015087
31-Aug-2032	9.541976	9.857530	15.435700	2.337290	34.239213	1.300870	0.014294	0.138613	0.036097	0.002869	0.001484	0.101345	0.000475	0.009785	0.005496	0.001507	0.015073

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Sep-2032	9.695369	10.326100	16.291600	2.409250	35.705563	1.386680	0.015150	0.147177	0.036755	0.003010	0.001494	0.102625	0.000503	0.010133	0.005779	0.001578	0.015783
2-Sep-2032	9.609037	11.359300	18.177300	2.566460	38.932854	1.575990	0.017039	0.166082	0.038253	0.003324	0.001515	0.105562	0.000566	0.010909	0.006407	0.001735	0.017347
3-Sep-2032	9.725638	10.645700	16.876100	2.458070	36.704645	1.445360	0.015735	0.153030	0.037188	0.003106	0.001500	0.103482	0.000523	0.010370	0.005973	0.001627	0.016267
4-Sep-2032	9.576364	10.612400	16.815200	2.453500	36.602676	1.439140	0.015673	0.152408	0.037131	0.003096	0.001500	0.103388	0.000521	0.010344	0.005952	0.001622	0.016216
5-Sep-2032	9.391123	10.260600	16.173800	2.400410	35.505607	1.374780	0.015029	0.145969	0.036568	0.002990	0.001492	0.102425	0.000499	0.010075	0.005738	0.001568	0.015681
6-Sep-2032	9.096173	10.877000	17.298400	2.494510	37.432261	1.487700	0.016156	0.157242	0.037443	0.003179	0.001505	0.104222	0.000537	0.010538	0.006112	0.001661	0.016613
7-Sep-2032	8.908894	10.350000	16.338100	2.414920	35.788591	1.391320	0.015193	0.147602	0.036610	0.003020	0.001493	0.102710	0.000505	0.010136	0.005791	0.001581	0.015813
8-Sep-2032	9.231653	10.378400	16.389200	2.419530	35.878489	1.396370	0.015244	0.148110	0.036659	0.003028	0.001494	0.102814	0.000506	0.010158	0.005809	0.001586	0.015856
9-Sep-2032	8.345568	10.343700	16.325800	2.414680	35.771871	1.390100	0.015180	0.147473	0.036558	0.003021	0.001493	0.102834	0.000504	0.010129	0.005787	0.001580	0.015801
10-Sep-2032	8.170035	10.270400	16.192400	2.404330	35.546220	1.376710	0.015045	0.146122	0.036387	0.003000	0.001491	0.102671	0.000500	0.010069	0.005742	0.001569	0.015687
11-Sep-2032	7.702117	10.604300	16.801400	2.455370	36.590151	1.437760	0.015655	0.152224	0.036886	0.003101	0.001499	0.103616	0.000520	0.010320	0.005945	0.001619	0.016193
12-Sep-2032	6.423726	10.344400	16.327000	2.416320	35.780373	1.390300	0.015180	0.147469	0.036427	0.003027	0.001492	0.103021	0.000505	0.010121	0.005786	0.001580	0.015795
13-Sep-2032	5.419437	10.307100	16.260500	2.411000	35.665327	1.383660	0.015112	0.146795	0.036327	0.003015	0.001491	0.102881	0.000502	0.010088	0.005763	0.001574	0.015737
14-Sep-2032	5.009363	10.355100	16.348600	2.418680	35.816809	1.392490	0.015200	0.147671	0.036370	0.003030	0.001492	0.103008	0.000505	0.010122	0.005792	0.001581	0.015809
15-Sep-2032	4.701093	10.508400	16.628100	2.442240	36.296619	1.420540	0.015480	0.150471	0.036581	0.003077	0.001495	0.103479	0.000515	0.010236	0.005885	0.001604	0.016040
16-Sep-2032	4.299664	11.054600	17.625300	2.525330	38.002645	1.520650	0.016479	0.160468	0.037376	0.003243	0.001507	0.105016	0.000548	0.010646	0.006217	0.001687	0.016868
17-Sep-2032	4.443419	11.275200	18.026800	2.559020	38.692219	1.560820	0.016881	0.164489	0.037738	0.003309	0.001512	0.105640	0.000561	0.010815	0.006351	0.001720	0.017204
18-Sep-2032	4.079171	10.752500	17.075300	2.479890	37.061180	1.465440	0.015927	0.154946	0.036887	0.003151	0.001500	0.104137	0.000530	0.010415	0.006033	0.001641	0.016409
19-Sep-2032	3.772246	11.467500	18.379900	2.588710	39.294655	1.596380	0.017234	0.168026	0.037945	0.003368	0.001515	0.106170	0.000573	0.010953	0.006467	0.001749	0.017493
20-Sep-2032	3.180075	11.101900	17.714100	2.533370	38.153862	1.529520	0.016566	0.161342	0.037376	0.003256	0.001507	0.105059	0.000551	0.010674	0.006244	0.001694	0.016939
21-Sep-2032	3.052831	12.077000	19.495500	2.681650	41.199304	1.708460	0.018351	0.179204	0.038760	0.003552	0.001527	0.107782	0.000610	0.011403	0.006836	0.001841	0.018415
22-Sep-2032	2.797036	10.952800	17.445100	2.511220	37.690346	1.502720	0.016296	0.158639	0.037040	0.003213	0.001503	0.104617	0.000542	0.010552	0.006153	0.001671	0.016709
23-Sep-2032	2.230708	11.061500	17.643900	2.527840	38.030211	1.522770	0.016495	0.160637	0.037171	0.003247	0.001505	0.104971	0.000549	0.010632	0.006219	0.001687	0.016872
24-Sep-2032	1.805696	10.874200	17.302200	2.500050	37.448083	1.488510	0.016152	0.157204	0.036842	0.003193	0.001500	0.104507	0.000537	0.010487	0.006104	0.001659	0.016585
25-Sep-2032	1.748747	11.282400	18.042000	2.562970	38.726463	1.562280	0.016892	0.164600	0.037555	0.003314	0.001512	0.105754	0.000562	0.010804	0.006352	0.001721	0.017207
26-Sep-2032	1.331224	10.945100	17.432400	2.511340	37.671613	1.501690	0.016282	0.158510	0.036881	0.003216	0.001501	0.104770	0.000542	0.010536	0.006147	0.001669	0.016690
27-Sep-2032	1.014582	11.133300	17.775900	2.540160	38.260229	1.536130	0.016626	0.161949	0.037153	0.003273	0.001505	0.105292	0.000553	0.010677	0.006261	0.001697	0.016975
28-Sep-2032	0.894174	11.585500	18.602100	2.609050	39.673061	1.619140	0.017454	0.170234	0.037803	0.003411	0.001515	0.106579	0.000581	0.011015	0.006536	0.001766	0.017659
29-Sep-2032	0.225812	11.188300	17.879000	2.549100	38.434379	1.546590	0.016729	0.162976	0.037145	0.003293	0.001506	0.105403	0.000557	0.010710	0.006294	0.001706	0.017056
30-Sep-2032	0.011115	11.137000	17.786300	2.541060	38.273174	1.537590	0.016637	0.162067	0.037010	0.003279	0.001503	0.105354	0.000554	0.010668	0.006263	0.001697	0.016975
1-Oct-2032	0.246731	11.054900	17.635700	2.528950	38.018301	1.522480	0.016486	0.160557	0.036871	0.003256	0.001502	0.105197	0.000549	0.010606	0.006213	0.001685	0.016849
2-Oct-2032	0.261374	10.946000	17.437100	2.512460	37.678472	1.502570	0.016287	0.158567	0.036704	0.003223	0.001499	0.104899	0.000542	0.010524	0.006146	0.001668	0.016683
3-Oct-2032	0.062437	10.770500	17.118000	2.485200	37.127992	1.470770	0.015969	0.155385	0.036430	0.003171	0.001495	0.104441	0.000531	0.010391	0.006040	0.001642	0.016416
4-Oct-2032	0.066933	10.727300	17.038500	2.478540	36.992696	1.462810	0.015890	0.154594	0.036390	0.003159	0.001494	0.104366	0.000529	0.010360	0.006014	0.001635	0.016351
5-Oct-2032	0.084695	10.720600	17.026300	2.477440	36.971436	1.461550	0.015877	0.154469	0.036410	0.003156	0.001494	0.104283	0.000528	0.010355	0.006010	0.001634	0.016342
6-Oct-2032	0.135424	10.709900	17.006700	2.475690	36.937512	1.459570	0.015858	0.154273	0.036396	0.003152	0.001494	0.104241	0.000528	0.010348	0.006004	0.001633	0.016326
7-Oct-2032	0.238832	10.685400	16.961800	2.471650	36.859699	1.455060	0.015813	0.153827	0.036398	0.003144	0.001494	0.104154	0.000526	0.010332	0.005989	0.001629	0.016290
8-Oct-2032	0.217607	10.671400	16.937400	2.469070	36.814116	1.452740	0.015789	0.153593	0.036365	0.003140	0.001493	0.104091	0.000525	0.010321	0.005981	0.001627	0.016269
9-Oct-2032	0.080193	10.636000	16.873500	2.463270	36.701838	1.446530	0.015727	0.152969	0.036301	0.003132	0.001491	0.104070	0.000523	0.010294	0.005960	0.001621	0.016214
10-Oct-2032	0.063231	10.639200	16.879100	2.463880	36.712340	1.447050	0.015732	0.153021	0.036305	0.003132	0.001492	0.104031	0.000523	0.010296	0.005962	0.001622	0.016219
11-Oct-2032	0.033290	10.595700	16.799500	2.456780	36.574483	1.439110	0.015653	0.152234	0.036260	0.003119	0.001490	0.103901	0.000521	0.010266	0.005936	0.001615	0.016154
12-Oct-2032	0.029947	10.576100	16.764900	2.453510	36.512076	1.435920	0.015620	0.151905	0.036213	0.003116	0.001489	0.103898	0.000520	0.010248	0.005924	0.001612	0.016122
13-Oct-2032	0.063002	10.549400	16.716200	2.449120	36.427328	1.431070	0.015571	0.151423	0.036143	0.003108	0.001488	0.103832	0.000518	0.010230	0.005909	0.001608	0.016082
14-Oct-2032	0.059777	10.544500	16.707900	2.448160	36.411139	1.430300	0.015563	0.151345	0.036130	0.003106	0.001488	0.103831	0.000518	0.010226	0.005906	0.001607	0.016074
15-Oct-2032	0.066984	10.545000	16.708300	2.448360	36.413211	1.430280	0.015564	0.151345	0.036137	0.003106	0.001488	0.103821	0.000518	0.010227	0.005906	0.001608	0.016075
16-Oct-2032	0.073335	10.546900	16.711800	2.448670	36.419232	1.430630	0.015567	0.151379	0.036139	0.003107	0.001488	0.103956	0.000518	0.010228	0.005907	0.001608	0.016079
17-Oct-2032	0.079470	10.625300	16.830900	2.468670	36.697357	1.440360	0.015676	0.152431	0.036446	0.003131	0.001502	0.105067	0.000521	0.010310	0.005950	0.001620	0.016197
18-Oct-2032	0.083509	10.721200	16.976700	2.492810	37.036228	1.452370	0.015810	0.153721	0.036746	0.003163	0.001516	0.106059	0.000526	0.010405	0.006003	0.001634	0.016340
19-Oct-2032	0.084638	10.763800	17.045000	2.502420	37.182174	1.458270	0.015874	0.154343	0.036898	0.003175	0.001522	0.106384	0.000528	0.010446	0.006027	0.001641	0.016406
20-Oct-2032	0.084254	10.802200	17.107800	2.510680	37.312074	1.463780	0.015933	0.154921	0.037033	0.003185	0.001527	0.106667	0.000530	0.010482	0.006049	0.001647	0.016465
21-Oct-2032	0.084497	10.837400	17.164200	2.518560	37.432418	1.468640	0.015985	0.155434	0.037162	0.003194	0.001532	0.106967	0.000532	0.010516	0.006068	0.001652	0.016520
22-Oct-2032	0.084907	10.856900	17.194500	2.523520	37.501535	1.471170	0.016013	0.155705	0.037239	0.003200	0.001535	0.107209	0.000533	0.010537	0.006079	0.001655	0.016549

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Oct-2032	0.085867	10.898200	17.257300	2.533720	37.646664	1.476310	0.016071	0.156259	0.037385	0.003213	0.001542	0.107694	0.000535	0.010578	0.006102	0.001661	0.016612
24-Oct-2032	0.087322	10.944500	17.334900	2.544010	37.804650	1.483310	0.016145	0.156984	0.037535	0.003226	0.001548	0.108161	0.000537	0.010620	0.006129	0.001668	0.016684
25-Oct-2032	0.088508	10.989100	17.405000	2.553710	37.955960	1.489280	0.016210	0.157617	0.037688	0.003239	0.001554	0.108574	0.000539	0.010663	0.006154	0.001675	0.016751
26-Oct-2032	0.089005	11.038300	17.482500	2.565210	38.126170	1.495870	0.016282	0.158316	0.037858	0.003253	0.001560	0.109006	0.000542	0.010712	0.006181	0.001683	0.016826
27-Oct-2032	0.088992	11.071200	17.534000	2.573300	38.241636	1.500220	0.016329	0.158779	0.037972	0.003264	0.001566	0.109421	0.000543	0.010744	0.006199	0.001688	0.016876
28-Oct-2032	0.088582	11.109500	17.590700	2.583240	38.378204	1.504740	0.016381	0.159272	0.038112	0.003276	0.001572	0.109835	0.000545	0.010784	0.006220	0.001693	0.016933
29-Oct-2032	0.088248	11.151200	17.657800	2.592570	38.520750	1.510570	0.016444	0.159885	0.038253	0.003288	0.001578	0.110198	0.000547	0.010824	0.006244	0.001700	0.016997
30-Oct-2032	0.087692	11.102400	17.582400	2.580630	38.349727	1.504280	0.016374	0.159212	0.038081	0.003273	0.001570	0.109639	0.000545	0.010775	0.006217	0.001692	0.016923
31-Oct-2032	0.087011	11.140300	17.643500	2.589120	38.479325	1.509590	0.016431	0.159771	0.038207	0.003284	0.001575	0.109972	0.000547	0.010811	0.006238	0.001698	0.016982
1-Nov-2032	0.086858	11.173300	17.696800	2.596460	38.591952	1.514250	0.016482	0.160259	0.038315	0.003293	0.001579	0.110257	0.000548	0.010842	0.006257	0.001703	0.017032
2-Nov-2032	0.086947	11.211800	17.757700	2.605410	38.724943	1.519460	0.016538	0.160811	0.038446	0.003305	0.001584	0.110653	0.000550	0.010879	0.006278	0.001709	0.017091
3-Nov-2032	0.087243	11.253400	17.822900	2.615260	38.869380	1.525000	0.016599	0.161399	0.038590	0.003317	0.001591	0.111075	0.000552	0.010920	0.006301	0.001715	0.017154
4-Nov-2032	0.087291	11.288800	17.879100	2.623500	38.991707	1.529810	0.016651	0.161908	0.038708	0.003328	0.001596	0.111429	0.000554	0.010954	0.006321	0.001721	0.017208
5-Nov-2032	0.086531	11.310300	17.913900	2.628290	39.065117	1.532870	0.016684	0.162228	0.038774	0.003334	0.001598	0.111620	0.000555	0.010974	0.006333	0.001724	0.017240
6-Nov-2032	0.086054	11.341100	17.963300	2.635280	39.170810	1.537150	0.016730	0.162678	0.038877	0.003343	0.001602	0.111902	0.000557	0.011004	0.006351	0.001729	0.017287
7-Nov-2032	0.086010	11.378400	18.022500	2.643850	39.299239	1.542230	0.016785	0.163216	0.039004	0.003354	0.001608	0.112259	0.000558	0.011040	0.006372	0.001734	0.017344
8-Nov-2032	0.085924	11.415800	18.081800	2.652520	39.428330	1.547320	0.016841	0.163753	0.039132	0.003365	0.001613	0.112625	0.000560	0.011076	0.006393	0.001740	0.017401
9-Nov-2032	0.085982	11.448700	18.133900	2.660170	39.541984	1.551770	0.016889	0.164225	0.039246	0.003374	0.001617	0.112949	0.000562	0.011108	0.006411	0.001745	0.017451
10-Nov-2032	0.086258	11.488400	18.196600	2.669450	39.679330	1.557120	0.016947	0.164792	0.039383	0.003386	0.001623	0.113348	0.000564	0.011147	0.006433	0.001751	0.017512
11-Nov-2032	0.086646	11.538700	18.276100	2.681230	39.853439	1.563900	0.017021	0.165510	0.039556	0.003401	0.001630	0.113856	0.000566	0.011196	0.006461	0.001759	0.017589
12-Nov-2032	0.087018	11.572700	18.329200	2.689320	39.971652	1.568390	0.017071	0.165988	0.039673	0.003411	0.001635	0.114218	0.000568	0.011229	0.006480	0.001764	0.017640
13-Nov-2032	0.087198	11.595300	18.364400	2.694850	40.050856	1.571340	0.017103	0.166303	0.039751	0.003419	0.001639	0.114477	0.000569	0.011251	0.006493	0.001767	0.017674
14-Nov-2032	0.087162	11.625500	18.412100	2.701870	40.155174	1.575420	0.017148	0.166734	0.039853	0.003427	0.001643	0.114778	0.000570	0.011281	0.006510	0.001772	0.017720
15-Nov-2032	0.087048	11.668100	18.480600	2.711440	40.300956	1.581360	0.017212	0.167360	0.039998	0.003440	0.001649	0.115164	0.000573	0.011321	0.006534	0.001779	0.017786
16-Nov-2032	0.086911	11.723900	18.568500	2.724530	40.494193	1.588860	0.017293	0.168155	0.040189	0.003456	0.001657	0.115723	0.000575	0.011376	0.006565	0.001787	0.017870
17-Nov-2032	0.086816	11.759700	18.625400	2.732840	40.617806	1.593730	0.017346	0.168670	0.040311	0.003467	0.001662	0.116075	0.000577	0.011410	0.006585	0.001793	0.017925
18-Nov-2032	0.086880	11.800900	18.690400	2.742470	40.760339	1.599280	0.017407	0.169258	0.040453	0.003479	0.001668	0.116489	0.000579	0.011450	0.006608	0.001799	0.017988
19-Nov-2032	0.087013	11.845000	18.759900	2.752830	40.913119	1.605190	0.017472	0.169885	0.040605	0.003492	0.001675	0.117076	0.000581	0.011493	0.006633	0.001805	0.018055
20-Nov-2032	0.087086	11.890000	18.829900	2.763680	41.070164	1.611090	0.017536	0.170513	0.040762	0.003506	0.001681	0.117435	0.000583	0.011538	0.006658	0.001812	0.018123
21-Nov-2032	0.087131	11.923000	18.881400	2.771620	41.185262	1.615420	0.017584	0.170975	0.040878	0.003516	0.001687	0.117972	0.000585	0.011571	0.006676	0.001817	0.018173
22-Nov-2032	0.087283	11.990600	18.988400	2.787550	41.419659	1.624570	0.017684	0.171944	0.041110	0.003536	0.001696	0.118555	0.000588	0.011636	0.006714	0.001828	0.018276
23-Nov-2032	0.087582	12.029400	19.048300	2.796870	41.554922	1.629570	0.017739	0.172478	0.041248	0.003548	0.001703	0.119185	0.000590	0.011675	0.006735	0.001833	0.018335
24-Nov-2032	0.087661	12.038600	19.060500	2.803730	41.606144	1.630480	0.017750	0.172581	0.041323	0.003556	0.001709	0.119618	0.000590	0.011695	0.006740	0.001835	0.018347
25-Nov-2032	0.087497	12.092700	19.138400	2.814860	41.787065	1.636400	0.017819	0.173241	0.041495	0.003571	0.001715	0.119964	0.000593	0.011744	0.006769	0.001843	0.018428
26-Nov-2032	0.087217	12.127100	19.201200	2.821110	41.898700	1.642480	0.017880	0.173852	0.041594	0.003579	0.001718	0.120113	0.000595	0.011773	0.006790	0.001848	0.018483
27-Nov-2032	0.087134	12.164700	19.261800	2.828590	42.023390	1.647750	0.017937	0.174406	0.041714	0.003588	0.001721	0.120307	0.000597	0.011807	0.006811	0.001854	0.018541
28-Nov-2032	0.087098	12.208900	19.332400	2.838660	42.175225	1.653850	0.018003	0.175049	0.041863	0.003601	0.001727	0.120696	0.000599	0.011850	0.006836	0.001861	0.018608
29-Nov-2032	0.087027	12.248300	19.395100	2.847740	42.310998	1.659240	0.018062	0.175618	0.041997	0.003613	0.001733	0.121123	0.000601	0.011888	0.006858	0.001867	0.018668
30-Nov-2032	0.087038	12.296000	19.470500	2.858940	42.476227	1.665680	0.018132	0.176301	0.042161	0.003627	0.001740	0.121617	0.000603	0.011934	0.006885	0.001874	0.018741
1-Dec-2032	0.087174	12.344200	19.539200	2.872520	42.652505	1.670940	0.018193	0.176883	0.042347	0.003644	0.001749	0.122346	0.000605	0.011986	0.006910	0.001881	0.018812
2-Dec-2032	0.087071	12.387900	19.610200	2.882110	42.801115	1.677140	0.018260	0.177536	0.042492	0.003656	0.001755	0.122704	0.000607	0.012027	0.006935	0.001888	0.018879
3-Dec-2032	0.086920	12.418400	19.663000	2.888330	42.902888	1.682030	0.018311	0.178037	0.042586	0.003664	0.001758	0.122916	0.000609	0.012054	0.006953	0.001893	0.018927
4-Dec-2032	0.086881	12.466300	19.737600	2.899290	43.067627	1.688320	0.018380	0.178706	0.042750	0.003678	0.001764	0.123344	0.000611	0.012101	0.006979	0.001900	0.019000
5-Dec-2032	0.086833	12.503700	19.798000	2.907730	43.195771	1.693630	0.018437	0.179262	0.042876	0.003689	0.001769	0.123681	0.000613	0.012137	0.007000	0.001906	0.019057
6-Dec-2032	0.086804	12.539300	19.854300	2.915880	43.318226	1.698400	0.018489	0.179769	0.042997	0.003699	0.001774	0.124017	0.000615	0.012171	0.007020	0.001911	0.019111
7-Dec-2032	0.086813	12.581600	19.921900	2.925690	43.464247	1.704250	0.018552	0.180385	0.043141	0.003712	0.001780	0.124432	0.000617	0.012212	0.007044	0.001918	0.019176
8-Dec-2032	0.086816	12.631000	19.999300	2.937280	43.635326	1.710790	0.018624	0.181081	0.043312	0.003726	0.001787	0.124934	0.000620	0.012260	0.007072	0.001925	0.019251
9-Dec-2032	0.086792	12.680700	20.077300	2.949050	43.807896	1.717400	0.018696	0.181783	0.043484	0.003741	0.001795	0.125453	0.000622	0.012309	0.007099	0.001933	0.019327
10-Dec-2032	0.086769	12.721700	20.142200	2.958620	43.949682	1.722950	0.018757	0.182371	0.043625	0.003753	0.001800	0.125863	0.000624	0.012349	0.007122	0.001939	0.019389
11-Dec-2032	0.086767	12.761000	20.204500	2.967730	44.085329	1.728280	0.018815	0.182935	0.043759	0.003765	0.001806	0.126248	0.000626	0.012387	0.007144	0.001945	0.019449
12-Dec-2032	0.086759	12.812500	20.286000	2.979710	44.263258	1.735250	0.018891	0.183673	0.043936	0.003780	0.001813	0.126758	0.000628	0.012437	0.007173	0.001953	0.019527
13-Dec-2032	0.086744	12.864700	20.368700	2.991800	44.443388	1.742340	0.018968	0.184423	0.044114	0.003795	0.001821	0.127269	0.000631	0.012487	0.007203	0.001961	0.019607

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Dec-2032	0.086739	12.910300	20.441100	3.002400	44.600902	1.748530	0.019035	0.185078	0.044271	0.003809	0.001827	0.127718	0.000633	0.012532	0.007228	0.001968	0.019677
15-Dec-2032	0.086720	12.960700	20.520400	3.014230	44.775467	1.755290	0.019109	0.185795	0.044444	0.003824	0.001834	0.128232	0.000636	0.012581	0.007256	0.001975	0.019753
16-Dec-2032	0.086696	13.002700	20.586900	3.024040	44.920739	1.760970	0.019171	0.186396	0.044588	0.003836	0.001840	0.128652	0.000638	0.012622	0.007280	0.001982	0.019817
17-Dec-2032	0.086684	13.030900	20.632300	3.030360	45.017180	1.764920	0.019213	0.186812	0.044683	0.003844	0.001844	0.128899	0.000639	0.012648	0.007296	0.001986	0.019861
18-Dec-2032	0.086673	13.074900	20.702000	3.040600	45.169216	1.770880	0.019278	0.187442	0.044834	0.003857	0.001850	0.129336	0.000641	0.012691	0.007320	0.001993	0.019928
19-Dec-2032	0.086666	13.122000	20.776400	3.051530	45.331835	1.777250	0.019347	0.188116	0.044995	0.003871	0.001857	0.129800	0.000644	0.012737	0.007347	0.002000	0.019999
20-Dec-2032	0.086659	13.170900	20.853900	3.062910	45.500801	1.783870	0.019420	0.188817	0.045163	0.003886	0.001864	0.130285	0.000646	0.012784	0.007374	0.002007	0.020074
21-Dec-2032	0.086632	13.220400	20.932200	3.074450	45.671924	1.790560	0.019492	0.189526	0.045333	0.003900	0.001871	0.130778	0.000648	0.012832	0.007402	0.002015	0.020149
22-Dec-2032	0.086621	13.263500	21.000300	3.084490	45.820889	1.796390	0.019556	0.190142	0.045481	0.003913	0.001877	0.131207	0.000651	0.012874	0.007426	0.002021	0.020215
23-Dec-2032	0.086620	13.309300	21.071800	3.095560	45.980838	1.802490	0.019622	0.190789	0.045641	0.003927	0.001884	0.131714	0.000653	0.012920	0.007451	0.002028	0.020284
24-Dec-2032	0.086611	13.363200	21.157900	3.107770	46.165707	1.809840	0.019703	0.191568	0.045823	0.003943	0.001891	0.132206	0.000655	0.012971	0.007482	0.002037	0.020367
25-Dec-2032	0.086605	13.420600	21.248700	3.121140	46.364093	1.817600	0.019787	0.192390	0.046020	0.003959	0.001899	0.132777	0.000658	0.013027	0.007514	0.002045	0.020454
26-Dec-2032	0.086603	13.471900	21.330100	3.133060	46.541275	1.824570	0.019863	0.193127	0.046196	0.003975	0.001907	0.133282	0.000661	0.013077	0.007542	0.002053	0.020532
27-Dec-2032	0.086597	13.514200	21.397000	3.142880	46.687337	1.830300	0.019925	0.193733	0.046341	0.003987	0.001913	0.133699	0.000663	0.013118	0.007566	0.002060	0.020597
28-Dec-2032	0.086587	13.584500	21.507300	3.159570	46.931606	1.839640	0.020027	0.194726	0.046584	0.004008	0.001923	0.134440	0.000666	0.013187	0.007605	0.002070	0.020704
29-Dec-2032	0.086554	13.631200	21.581200	3.170430	47.092937	1.845970	0.020096	0.195396	0.046744	0.004022	0.001930	0.134902	0.000668	0.013232	0.007631	0.002077	0.020775
30-Dec-2032	0.086536	13.684700	21.666200	3.182790	47.277425	1.853260	0.020176	0.196166	0.046927	0.004038	0.001937	0.135421	0.000671	0.013284	0.007661	0.002086	0.020856
31-Dec-2032	0.086524	13.761100	21.787000	3.200640	47.541702	1.863580	0.020288	0.197259	0.047189	0.004060	0.001948	0.136186	0.000675	0.013358	0.007704	0.002097	0.020973
1-Jan-2033	0.086518	13.819700	21.879800	3.214270	47.744155	1.871510	0.020374	0.198099	0.047390	0.004078	0.001956	0.136766	0.000678	0.013415	0.007737	0.002106	0.021062
2-Jan-2033	0.086501	13.870200	21.959800	3.225980	47.918475	1.878370	0.020449	0.198824	0.047563	0.004093	0.001963	0.137262	0.000680	0.013464	0.007765	0.002114	0.021139
3-Jan-2033	0.086477	13.938500	22.067800	3.241890	48.154538	1.887590	0.020549	0.199801	0.047797	0.004113	0.001973	0.137942	0.000684	0.013530	0.007804	0.002124	0.021243
4-Jan-2033	0.086465	14.023900	22.202800	3.261860	48.450018	1.899110	0.020675	0.201021	0.048091	0.004138	0.001985	0.138800	0.000688	0.013614	0.007851	0.002137	0.021373
5-Jan-2033	0.086444	14.061000	22.261700	3.270410	48.577865	1.904170	0.020730	0.201557	0.048217	0.004149	0.001990	0.139158	0.000690	0.013649	0.007872	0.002143	0.021430
6-Jan-2033	0.086425	14.124800	22.362900	3.285230	48.798203	1.912830	0.020824	0.202473	0.048436	0.004168	0.001999	0.139786	0.000693	0.013711	0.007908	0.002153	0.021527
7-Jan-2033	0.086413	14.203700	22.487400	3.303690	49.071234	1.923460	0.020940	0.203599	0.048707	0.004191	0.002011	0.140581	0.000697	0.013788	0.007952	0.002165	0.021647
8-Jan-2033	0.086399	14.233800	22.535100	3.310650	49.175055	1.927550	0.020985	0.204031	0.048810	0.004200	0.002015	0.140875	0.000698	0.013817	0.007969	0.002169	0.021693
9-Jan-2033	0.086387	14.284900	22.616200	3.322490	49.351409	1.934500	0.021060	0.204767	0.048985	0.004215	0.002022	0.141373	0.000701	0.013867	0.007997	0.002177	0.021771
10-Jan-2033	0.086379	14.359900	22.734800	3.340000	49.610790	1.944620	0.021170	0.205839	0.049242	0.004237	0.002033	0.142125	0.000704	0.013940	0.008039	0.002189	0.021885
11-Jan-2033	0.086377	14.409800	22.813700	3.351650	49.783365	1.951360	0.021244	0.206552	0.049414	0.004252	0.002040	0.142624	0.000707	0.013988	0.008067	0.002196	0.021961
12-Jan-2033	0.086362	14.448400	22.874900	3.360550	49.916400	1.956610	0.021301	0.207108	0.049545	0.004263	0.002045	0.142997	0.000709	0.014025	0.008089	0.002202	0.022020
13-Jan-2033	0.086349	14.519200	22.987000	3.377070	50.161217	1.966190	0.021405	0.208122	0.049788	0.004284	0.002055	0.143704	0.000712	0.014094	0.008129	0.002213	0.022128
14-Jan-2033	0.086345	14.582600	23.087000	3.391910	50.380638	1.974720	0.021498	0.209026	0.050007	0.004303	0.002064	0.144344	0.000715	0.014156	0.008164	0.002222	0.022225
15-Jan-2033	0.086326	14.601500	23.117100	3.396230	50.445621	1.977310	0.021526	0.209299	0.050071	0.004309	0.002067	0.144523	0.000716	0.014174	0.008175	0.002225	0.022253
16-Jan-2033	0.086310	14.658900	23.208000	3.409600	50.644006	1.985090	0.021611	0.210122	0.050267	0.004326	0.002075	0.145092	0.000719	0.014230	0.008207	0.002234	0.022341
17-Jan-2033	0.086309	14.723900	23.310300	3.424860	50.869152	1.993800	0.021706	0.211046	0.050492	0.004345	0.002084	0.145755	0.000722	0.014293	0.008243	0.002244	0.022440
18-Jan-2033	0.086296	14.753100	23.356800	3.431630	50.969943	1.997790	0.021750	0.211468	0.050591	0.004353	0.002089	0.146040	0.000723	0.014322	0.008259	0.002248	0.022484
19-Jan-2033	0.086287	14.813100	23.452500	3.445330	51.176180	2.006040	0.021839	0.212339	0.050796	0.004371	0.002097	0.146600	0.000726	0.014379	0.008293	0.002258	0.022576
20-Jan-2033	0.086281	14.917800	23.618300	3.469690	51.537930	2.020220	0.021993	0.213839	0.051155	0.004402	0.002112	0.147638	0.000732	0.014481	0.008352	0.002274	0.022736
21-Jan-2033	0.086271	15.038300	23.808800	3.497770	51.954452	2.036500	0.022171	0.215563	0.051568	0.004437	0.002129	0.148838	0.000737	0.014598	0.008419	0.002292	0.022919
22-Jan-2033	0.086266	15.158800	23.999500	3.525860	52.371015	2.052790	0.022348	0.217289	0.051982	0.004473	0.002146	0.150038	0.000743	0.014715	0.008487	0.002310	0.023103
23-Jan-2033	0.086257	15.280900	24.192900	3.554270	52.792891	2.069330	0.022528	0.219039	0.052400	0.004509	0.002163	0.151247	0.000749	0.014834	0.008555	0.002329	0.023289
24-Jan-2033	0.086238	15.429600	24.428100	3.588860	53.306637	2.089450	0.022747	0.221169	0.052910	0.004553	0.002184	0.152721	0.000757	0.014978	0.008638	0.002352	0.023515
25-Jan-2033	0.086204	15.547500	24.614800	3.616320	53.714113	2.105410	0.022921	0.222859	0.053315	0.004588	0.002201	0.153891	0.000762	0.015093	0.008704	0.002370	0.023695
26-Jan-2033	0.086175	15.647400	24.773000	3.639540	54.059184	2.118940	0.023068	0.224291	0.053657	0.004617	0.002215	0.154878	0.000767	0.015190	0.008760	0.002385	0.023847
27-Jan-2033	0.086164	15.773000	24.971900	3.668710	54.492929	2.135960	0.023254	0.226093	0.054087	0.004654	0.002233	0.156117	0.000774	0.015311	0.008830	0.002404	0.024039
28-Jan-2033	0.086158	15.922400	25.208400	3.703450	55.009040	2.156200	0.023474	0.228234	0.054600	0.004698	0.002254	0.157595	0.000781	0.015456	0.008914	0.002427	0.024267
29-Jan-2033	0.086155	16.069100	25.440700	3.737590	55.515938	2.176070	0.023690	0.230338	0.055103	0.004742	0.002275	0.159048	0.000788	0.015599	0.008996	0.002449	0.024490
30-Jan-2033	0.086154	15.941700	25.238900	3.707950	55.075763	2.158810	0.023502	0.228510	0.054666	0.004704	0.002257	0.157787	0.000782	0.015475	0.008925	0.002430	0.024296
31-Jan-2033	0.086146	16.169000	25.598800	3.760840	55.861132	2.189590	0.023837	0.231769	0.055445	0.004771	0.002289	0.160039	0.000793	0.015696	0.009052	0.002464	0.024642
1-Feb-2033	0.086134	16.372900	25.921600	3.808250	56.565505	2.217200	0.024138	0.234691	0.056144	0.004831	0.002318	0.162056	0.000803	0.015894	0.009166	0.002495	0.024953
2-Feb-2033	0.086123	16.544500	26.193300	3.848160	57.158339	2.240440	0.024391	0.237152	0.056733	0.004882	0.002342	0.163754	0.000811	0.016060	0.009262	0.002521	0.025215
3-Feb-2033	0.086114	16.639500	26.343700	3.870240	57.486480	2.253310	0.024531	0.238514	0.057058	0.004910	0.002355	0.164692	0.000816	0.016152	0.009316	0.002536	0.025359

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4-Feb-2033	0.086108	16.675100	26.400100	3.878510	57.609429	2.258140	0.024584	0.239024	0.057180	0.004920	0.002360	0.165044	0.000818	0.016187	0.009336	0.002541	0.025414
5-Feb-2033	0.086105	16.699700	26.439200	3.884240	57.694451	2.261480	0.024620	0.239378	0.057264	0.004928	0.002364	0.165287	0.000819	0.016211	0.009349	0.002545	0.025451
6-Feb-2033	0.086100	16.185900	25.625700	3.764700	55.919227	2.191900	0.023862	0.232013	0.055502	0.004776	0.002291	0.160199	0.000794	0.015712	0.009062	0.002467	0.024668
7-Feb-2033	0.086096	16.247600	25.723400	3.779050	56.132385	2.200270	0.023954	0.232898	0.055713	0.004794	0.002300	0.160809	0.000797	0.015772	0.009096	0.002476	0.024762
8-Feb-2033	0.086096	16.348200	25.882800	3.802440	56.479903	2.213910	0.024102	0.234342	0.056058	0.004824	0.002314	0.161803	0.000802	0.015869	0.009153	0.002492	0.024916
9-Feb-2033	0.086094	16.501300	26.125100	3.838020	57.008712	2.234630	0.024328	0.236536	0.056582	0.004869	0.002336	0.163317	0.000809	0.016018	0.009238	0.002515	0.025149
10-Feb-2033	0.086090	16.646900	26.355700	3.871890	57.511752	2.254360	0.024542	0.238624	0.057082	0.004912	0.002356	0.164757	0.000816	0.016159	0.009320	0.002537	0.025371
11-Feb-2033	0.086087	16.781400	26.568700	3.903180	57.976451	2.272580	0.024741	0.240552	0.057543	0.004952	0.002375	0.166089	0.000823	0.016290	0.009395	0.002558	0.025576
12-Feb-2033	0.086085	16.922400	26.791800	3.935960	58.463516	2.291670	0.024948	0.242572	0.058026	0.004993	0.002395	0.167484	0.000830	0.016427	0.009474	0.002579	0.025791
13-Feb-2033	0.086084	17.067100	27.020900	3.969620	58.963444	2.311260	0.025162	0.244646	0.058522	0.005036	0.002416	0.168916	0.000837	0.016567	0.009555	0.002601	0.026011
14-Feb-2033	0.086083	17.316500	27.415900	4.027630	59.825081	2.345050	0.025530	0.248223	0.059378	0.005110	0.002451	0.171384	0.000849	0.016809	0.009695	0.002639	0.026391
15-Feb-2033	0.086083	17.569700	27.816800	4.086530	60.699871	2.379340	0.025903	0.251852	0.060246	0.005184	0.002487	0.173890	0.000862	0.017055	0.009836	0.002678	0.026777
16-Feb-2033	0.086084	17.796200	28.175300	4.139200	61.482337	2.410000	0.026237	0.255098	0.061022	0.005251	0.002519	0.176132	0.000873	0.017275	0.009963	0.002712	0.027122
17-Feb-2033	0.086085	18.006000	28.507500	4.188020	62.207248	2.438420	0.026546	0.258106	0.061742	0.005313	0.002549	0.178209	0.000883	0.017479	0.010081	0.002744	0.027442
18-Feb-2033	0.086086	18.222900	28.850900	4.238470	62.956601	2.467790	0.026866	0.261215	0.062486	0.005377	0.002579	0.180356	0.000894	0.017689	0.010202	0.002777	0.027773
19-Feb-2033	0.086086	18.505100	29.297600	4.304100	63.931519	2.506000	0.027282	0.265260	0.063453	0.005460	0.002619	0.183149	0.000908	0.017963	0.010360	0.002820	0.028203
20-Feb-2033	0.086086	18.777100	29.728300	4.367360	64.871207	2.542830	0.027683	0.269158	0.064386	0.005541	0.002658	0.185841	0.000921	0.018227	0.010512	0.002862	0.028617
21-Feb-2033	0.086087	19.030000	30.128700	4.426180	65.744919	2.577090	0.028056	0.272784	0.065253	0.005615	0.002694	0.188344	0.000933	0.018473	0.010654	0.002900	0.029003
22-Feb-2033	0.086087	19.280000	30.524500	4.484320	66.608590	2.610940	0.028424	0.276367	0.066110	0.005689	0.002729	0.190818	0.000946	0.018715	0.010794	0.002938	0.029384
23-Feb-2033	0.086087	19.518800	30.902500	4.539870	67.433628	2.643280	0.028776	0.279790	0.066929	0.005760	0.002763	0.193181	0.000957	0.018947	0.010928	0.002975	0.029748
24-Feb-2033	0.086087	19.749500	31.267800	4.593530	68.230658	2.674520	0.029116	0.283097	0.067721	0.005828	0.002796	0.195465	0.000969	0.019171	0.011057	0.003010	0.030099
25-Feb-2033	0.086088	18.183100	28.787900	4.229190	62.819005	2.462410	0.026807	0.260645	0.062349	0.005365	0.002574	0.179960	0.000892	0.017651	0.010180	0.002771	0.027712
26-Feb-2033	0.086088	18.361300	29.070000	4.270620	63.434579	2.486530	0.027070	0.263199	0.062960	0.005418	0.002599	0.181723	0.000900	0.017824	0.010280	0.002798	0.027984
27-Feb-2033	0.086089	18.542200	29.356400	4.312700	64.059572	2.511030	0.027337	0.265792	0.063581	0.005471	0.002625	0.183513	0.000909	0.017999	0.010381	0.002826	0.028259
28-Feb-2033	0.086089	18.725500	29.646700	4.355350	64.692905	2.535860	0.027607	0.268420	0.064209	0.005525	0.002651	0.185328	0.000918	0.018177	0.010484	0.002854	0.028539
1-Mar-2033	0.086090	18.909800	29.938500	4.398220	65.329641	2.560820	0.027879	0.271062	0.064841	0.005580	0.002677	0.187152	0.000927	0.018356	0.010587	0.002882	0.028820
2-Mar-2033	0.086090	19.095700	30.232700	4.441450	65.971854	2.585990	0.028153	0.273726	0.065479	0.005635	0.002703	0.188992	0.000936	0.018536	0.010691	0.002910	0.029103
3-Mar-2033	0.086091	19.283000	30.529300	4.485010	66.618922	2.611350	0.028429	0.276411	0.066121	0.005690	0.002729	0.190845	0.000946	0.018718	0.010796	0.002939	0.029388
4-Mar-2033	0.086091	19.471300	30.827400	4.528810	67.269476	2.636850	0.028706	0.279110	0.066767	0.005746	0.002756	0.192709	0.000955	0.018901	0.010901	0.002968	0.029675
5-Mar-2033	0.086092	19.660500	31.126900	4.572810	67.923100	2.662480	0.028985	0.281822	0.067415	0.005801	0.002783	0.194582	0.000964	0.019085	0.011007	0.002996	0.029964
6-Mar-2033	0.086092	19.850600	31.427900	4.617020	68.579837	2.688210	0.029266	0.284547	0.068067	0.005857	0.002810	0.196463	0.000974	0.019269	0.011113	0.003025	0.030253
7-Mar-2033	0.086093	20.041700	31.730500	4.661470	69.240058	2.714100	0.029547	0.287286	0.068722	0.005914	0.002837	0.198354	0.000983	0.019455	0.011220	0.003054	0.030545
8-Mar-2033	0.086093	20.233800	32.034600	4.706160	69.903765	2.740110	0.029831	0.290040	0.069381	0.005971	0.002864	0.200256	0.000992	0.019641	0.011328	0.003084	0.030837
9-Mar-2033	0.086094	20.427200	32.340800	4.751140	70.571913	2.766300	0.030116	0.292812	0.070044	0.006028	0.002891	0.202170	0.001002	0.019829	0.011436	0.003113	0.031132
10-Mar-2033	0.086094	20.623100	32.651000	4.796710	71.248732	2.792830	0.030404	0.295621	0.070716	0.006085	0.002919	0.204109	0.001011	0.020019	0.011546	0.003143	0.031431
11-Mar-2033	0.086094	20.821900	32.965600	4.842940	71.935511	2.819750	0.030697	0.298470	0.071398	0.006144	0.002947	0.206076	0.001021	0.020212	0.011657	0.003173	0.031734
12-Mar-2033	0.086095	21.022900	33.283900	4.889690	72.629925	2.846970	0.030994	0.301351	0.072087	0.006203	0.002976	0.208065	0.001031	0.020407	0.011770	0.003204	0.032040
13-Mar-2033	0.086095	21.225500	33.604700	4.936810	73.329857	2.874410	0.031293	0.304255	0.072782	0.006263	0.003004	0.210071	0.001041	0.020604	0.011883	0.003235	0.032349
14-Mar-2033	0.086095	21.429500	33.927700	4.984280	74.034727	2.902040	0.031593	0.307180	0.073481	0.006323	0.003033	0.212090	0.001051	0.020802	0.011997	0.003266	0.032660
15-Mar-2033	0.086095	21.634600	34.252400	5.031970	74.743249	2.929810	0.031896	0.310120	0.074185	0.006384	0.003062	0.214120	0.001061	0.021001	0.012112	0.003297	0.032972
16-Mar-2033	0.086095	21.841500	34.579900	5.080090	75.458036	2.957830	0.032201	0.313085	0.074894	0.006445	0.003092	0.216168	0.001071	0.021202	0.012228	0.003329	0.033288
17-Mar-2033	0.086095	22.049800	34.909700	5.128530	76.177637	2.986030	0.032508	0.316071	0.075608	0.006506	0.003121	0.218229	0.001081	0.021404	0.012345	0.003360	0.033605
18-Mar-2033	0.086096	22.259600	35.241800	5.177330	76.902466	3.014440	0.032817	0.319078	0.076328	0.006568	0.003151	0.220305	0.001092	0.021608	0.012462	0.003392	0.033925
19-Mar-2033	0.086096	22.471000	35.576600	5.226520	77.632896	3.043080	0.033129	0.322110	0.077053	0.006631	0.003181	0.222398	0.001102	0.021813	0.012580	0.003425	0.034247
20-Mar-2033	0.086096	22.684300	35.914300	5.276120	78.369759	3.071970	0.033443	0.325167	0.077784	0.006694	0.003211	0.224509	0.001112	0.022020	0.012700	0.003457	0.034572
21-Mar-2033	0.086096	22.899400	36.254900	5.326160	79.112929	3.101100	0.033760	0.328251	0.078522	0.006757	0.003241	0.226638	0.001123	0.022229	0.012820	0.003490	0.034900
22-Mar-2033	0.086096	23.116400	36.598400	5.376630	79.862613	3.130480	0.034080	0.331361	0.079266	0.006821	0.003272	0.228786	0.001134	0.022439	0.012942	0.003523	0.035231
23-Mar-2033	0.086096	23.335400	36.945100	5.427560	80.619186	3.160140	0.034403	0.334500	0.080017	0.006886	0.003303	0.230953	0.001144	0.022652	0.013064	0.003556	0.035564
24-Mar-2033	0.086096	23.556200	37.294700	5.478920	81.382024	3.190040	0.034729	0.337665	0.080774	0.006951	0.003334	0.233138	0.001155	0.022866	0.013188	0.003590	0.035901
25-Mar-2033	0.086096	23.778800	37.647100	5.530680	82.151004	3.220180	0.035057	0.340855	0.081537	0.007017	0.003366	0.235341	0.001166	0.023082	0.013313	0.003624	0.036240
26-Mar-2033	0.086096	24.003000	38.002000	5.582830	82.925585	3.250540	0.035387	0.344069	0.082306	0.007083	0.003398	0.237560	0.001177	0.023300	0.013438	0.003658	0.036582
27-Mar-2033	0.086096	24.228900	38.359700	5.635380	83.706058	3.281140	0.035720	0.347308	0.083080	0.007149	0.003430	0.239796	0.001188	0.023519	0.013565	0.003693	0.036926

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Mar-2033	0.086096	24.456700	38.720400	5.688370	84.493088	3.311990	0.036056	0.350573	0.083862	0.007217	0.003462	0.242051	0.001199	0.023741	0.013692	0.003727	0.037273
29-Mar-2033	0.086096	24.686600	39.084300	5.741830	85.287296	3.343120	0.036395	0.353868	0.084650	0.007284	0.003494	0.244326	0.001211	0.023964	0.013821	0.003762	0.037624
30-Mar-2033	0.086096	24.918400	39.451400	5.795760	86.088184	3.374520	0.036737	0.357192	0.085445	0.007353	0.003527	0.246621	0.001222	0.024189	0.013951	0.003798	0.037977
31-Mar-2033	0.086095	25.149600	39.817300	5.849520	86.886875	3.405810	0.037078	0.360505	0.086237	0.007421	0.003560	0.248908	0.001233	0.024413	0.014080	0.003833	0.038329
1-Apr-2033	0.086095	25.316600	40.081800	5.888360	87.463817	3.428430	0.037324	0.362899	0.086810	0.007470	0.003584	0.250561	0.001242	0.024575	0.014174	0.003858	0.038584
2-Apr-2033	0.086095	25.106800	39.749700	5.839580	86.739070	3.400030	0.037015	0.359892	0.086091	0.007408	0.003554	0.248485	0.001231	0.024372	0.014056	0.003826	0.038264
3-Apr-2033	0.086095	24.868500	39.372400	5.784150	85.915774	3.367750	0.036663	0.356476	0.085274	0.007338	0.003520	0.246127	0.001220	0.024140	0.013923	0.003790	0.037901
4-Apr-2033	0.086095	24.656400	39.036500	5.734810	85.182978	3.339030	0.036351	0.353435	0.084546	0.007275	0.003490	0.244027	0.001209	0.023934	0.013804	0.003758	0.037578
5-Apr-2033	0.086095	24.464800	38.733200	5.690240	84.521014	3.313080	0.036068	0.350689	0.083889	0.007219	0.003463	0.242131	0.001200	0.023748	0.013697	0.003729	0.037286
6-Apr-2033	0.086095	24.290600	38.457400	5.649730	83.919216	3.289490	0.035811	0.348192	0.083292	0.007168	0.003438	0.240407	0.001191	0.023579	0.013599	0.003702	0.037020
7-Apr-2033	0.086095	24.131500	38.205500	5.612720	83.369536	3.267940	0.035577	0.345911	0.082746	0.007121	0.003416	0.238832	0.001183	0.023425	0.013510	0.003678	0.036778
8-Apr-2033	0.086095	23.985200	37.973900	5.578700	82.864131	3.248140	0.035361	0.343815	0.082245	0.007077	0.003395	0.237385	0.001176	0.023283	0.013428	0.003655	0.036555
9-Apr-2033	0.086095	23.850400	37.760400	5.547340	82.398395	3.229870	0.035162	0.341881	0.081782	0.007038	0.003376	0.236050	0.001170	0.023152	0.013353	0.003635	0.036349
10-Apr-2033	0.086095	23.793000	37.669600	5.533970	82.200009	3.222110	0.035078	0.341059	0.081585	0.007021	0.003368	0.235480	0.001167	0.023096	0.013321	0.003626	0.036262
11-Apr-2033	0.086095	23.737700	37.582100	5.521110	82.008968	3.214630	0.034996	0.340267	0.081396	0.007004	0.003360	0.234933	0.001164	0.023042	0.013290	0.003618	0.036177
12-Apr-2033	0.086095	23.688000	37.503400	5.509550	81.837263	3.207890	0.034923	0.339554	0.081225	0.006990	0.003353	0.234441	0.001162	0.022994	0.013262	0.003610	0.036102
13-Apr-2033	0.086095	23.641500	37.429900	5.498750	81.676678	3.201600	0.034855	0.338889	0.081066	0.006976	0.003346	0.233982	0.001159	0.022949	0.013236	0.003603	0.036031
14-Apr-2033	0.086095	23.594000	37.354600	5.487690	81.512525	3.195170	0.034784	0.338207	0.080903	0.006962	0.003340	0.233511	0.001157	0.022903	0.013209	0.003596	0.035958
15-Apr-2033	0.086095	23.547400	37.280800	5.476850	81.351526	3.188850	0.034716	0.337539	0.080743	0.006948	0.003333	0.233050	0.001155	0.022858	0.013183	0.003589	0.035887
16-Apr-2033	0.086095	23.503100	37.210700	5.466560	81.198535	3.182860	0.034651	0.336905	0.080591	0.006935	0.003327	0.232612	0.001153	0.022815	0.013158	0.003582	0.035820
17-Apr-2033	0.086095	23.461500	37.144900	5.456880	81.054797	3.177230	0.034589	0.336308	0.080449	0.006923	0.003321	0.232200	0.001151	0.022774	0.013135	0.003576	0.035757
18-Apr-2033	0.086096	23.422400	37.082900	5.447780	80.919691	3.171930	0.034531	0.335747	0.080314	0.006911	0.003315	0.231813	0.001149	0.022736	0.013113	0.003570	0.035697
19-Apr-2033	0.086096	23.385400	37.024300	5.439170	80.791846	3.166910	0.034477	0.335217	0.080187	0.006900	0.003310	0.231446	0.001147	0.022700	0.013092	0.003564	0.035640
20-Apr-2033	0.086096	23.350400	36.968900	5.431040	80.670972	3.162180	0.034425	0.334716	0.080068	0.006890	0.003305	0.231100	0.001145	0.022667	0.013073	0.003559	0.035587
21-Apr-2033	0.086096	23.317300	36.916600	5.423340	80.556612	3.157700	0.034377	0.334241	0.079954	0.006880	0.003301	0.230773	0.001144	0.022634	0.013054	0.003554	0.035537
22-Apr-2033	0.086096	22.930100	36.303500	5.333300	79.218989	3.105250	0.033806	0.328690	0.078627	0.006766	0.003246	0.226942	0.001125	0.022259	0.012838	0.003495	0.034947
23-Apr-2033	0.086096	22.888400	36.237400	5.323600	79.074920	3.099600	0.033744	0.328092	0.078484	0.006754	0.003240	0.226529	0.001122	0.022218	0.012814	0.003488	0.034883
24-Apr-2033	0.086096	22.848600	36.174500	5.314350	78.937448	3.094220	0.033686	0.327522	0.078348	0.006742	0.003234	0.226136	0.001121	0.022180	0.012792	0.003482	0.034823
25-Apr-2033	0.086096	22.810600	36.114300	5.305510	78.806158	3.089070	0.033629	0.326977	0.078217	0.006731	0.003229	0.225760	0.001119	0.022143	0.012771	0.003476	0.034765
26-Apr-2033	0.086096	22.774200	36.056600	5.297020	78.680306	3.084130	0.033576	0.326455	0.078092	0.006720	0.003224	0.225399	0.001117	0.022107	0.012750	0.003471	0.034709
27-Apr-2033	0.086096	22.739000	36.001000	5.288860	78.558808	3.079380	0.033524	0.325951	0.077972	0.006710	0.003219	0.225051	0.001115	0.022073	0.012731	0.003466	0.034655
28-Apr-2033	0.086096	22.705100	35.947300	5.280970	78.441669	3.074780	0.033474	0.325465	0.077856	0.006700	0.003214	0.224715	0.001114	0.022040	0.012712	0.003460	0.034604
29-Apr-2033	0.086096	22.672400	35.895400	5.273360	78.328679	3.070350	0.033426	0.324996	0.077743	0.006690	0.003209	0.224392	0.001112	0.022008	0.012693	0.003455	0.034554
30-Apr-2033	0.086123	22.635500	35.837000	5.264770	78.201166	3.065350	0.033371	0.324467	0.077617	0.006679	0.003204	0.224026	0.001110	0.021973	0.012673	0.003450	0.034498
1-May-2033	0.087129	22.409300	35.478900	5.212160	77.419697	3.034720	0.033038	0.321224	0.076841	0.006612	0.003172	0.221787	0.001099	0.021753	0.012546	0.003415	0.034153
2-May-2033	0.093182	22.373000	35.421400	5.203730	77.294341	3.029810	0.032984	0.320704	0.076716	0.006602	0.003167	0.221429	0.001097	0.021718	0.012526	0.003410	0.034098
3-May-2033	0.098966	22.109500	35.004100	5.142460	76.384072	2.994100	0.032596	0.316925	0.075813	0.006524	0.003130	0.218824	0.001084	0.021462	0.012378	0.003370	0.033696
4-May-2033	0.103906	21.636900	34.256000	5.032550	74.751380	2.930110	0.031899	0.310152	0.074193	0.006385	0.003063	0.214147	0.001061	0.021003	0.012114	0.003298	0.032976
5-May-2033	0.108906	21.274200	33.681800	4.948190	73.498324	2.880990	0.031364	0.304953	0.072949	0.006278	0.003011	0.210558	0.001043	0.020651	0.011910	0.003242	0.032423
6-May-2033	0.114428	20.927100	33.132200	4.867450	72.299128	2.833990	0.030853	0.299977	0.071759	0.006175	0.002962	0.207123	0.001026	0.020314	0.011716	0.003189	0.031894
7-May-2033	0.120874	20.634700	32.669300	4.799380	71.288693	2.794410	0.030422	0.295787	0.070755	0.006089	0.002921	0.204222	0.001012	0.020030	0.011552	0.003145	0.031448
8-May-2033	0.126643	20.431100	32.346900	4.752040	70.585357	2.766820	0.030121	0.292867	0.070058	0.006029	0.002892	0.202209	0.001002	0.019833	0.011438	0.003114	0.031138
9-May-2033	0.131993	20.214200	32.003600	4.701600	69.836046	2.737460	0.029802	0.289759	0.069314	0.005965	0.002861	0.200062	0.000991	0.019622	0.011317	0.003081	0.030807
10-May-2033	0.137799	20.080000	31.791100	4.670390	69.372426	2.719280	0.029604	0.287835	0.068854	0.005925	0.002842	0.198734	0.000985	0.019492	0.011242	0.003060	0.030603
11-May-2033	0.145108	19.947300	31.581100	4.639540	68.914034	2.701320	0.029408	0.285934	0.068399	0.005886	0.002824	0.197421	0.000978	0.019363	0.011168	0.003040	0.030401
12-May-2033	0.154688	19.700100	31.189600	4.582030	68.059949	2.667830	0.029044	0.282389	0.067551	0.005813	0.002789	0.194974	0.000966	0.019123	0.011029	0.003002	0.030024
13-May-2033	0.162811	19.465800	30.818700	4.527540	67.250512	2.636110	0.028698	0.279032	0.066748	0.005744	0.002755	0.192656	0.000955	0.018896	0.010898	0.002967	0.029667
14-May-2033	0.175797	19.281700	30.527100	4.484700	66.614400	2.611170	0.028427	0.276392	0.066116	0.005690	0.002729	0.190833	0.000946	0.018717	0.010795	0.002939	0.029386
15-May-2033	0.190112	18.852700	29.848100	4.384940	65.132375	2.553080	0.027794	0.270243	0.064646	0.005563	0.002669	0.186587	0.000925	0.018301	0.010555	0.002873	0.028733
16-May-2033	0.201211	18.300300	28.973400	4.256430	63.223828	2.478280	0.026980	0.262325	0.062751	0.005400	0.002590	0.181118	0.000897	0.017764	0.010245	0.002789	0.027891
17-May-2033	0.212004	18.117300	28.683800	4.213870	62.591615	2.453500	0.026710	0.259702	0.062124	0.005346	0.002564	0.179307	0.000889	0.017587	0.010143	0.002761	0.027612
18-May-2033	0.213901	17.929200	28.386000	4.170130	61.941808	2.428030	0.026433	0.257006	0.061479	0.005290	0.002538	0.177446	0.000879	0.017404	0.010038	0.002733	0.027325

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19-May-2033	0.225339	17.332600	27.441300	4.031370	59.880684	2.347220	0.025553	0.248452	0.059433	0.005114	0.002453	0.171542	0.000850	0.016825	0.009704	0.002642	0.026416
20-May-2033	0.219850	16.970600	26.868100	3.947170	58.630034	2.298190	0.025020	0.243263	0.058192	0.005008	0.002402	0.167959	0.000832	0.016474	0.009501	0.002586	0.025864
21-May-2033	0.227730	16.384900	25.940900	3.810930	56.606505	2.218880	0.024156	0.234868	0.056184	0.004835	0.002319	0.162161	0.000804	0.015905	0.009173	0.002497	0.024971
22-May-2033	0.240697	16.116100	25.515300	3.748420	55.677895	2.182470	0.023760	0.231014	0.055262	0.004755	0.002281	0.159502	0.000790	0.015644	0.009023	0.002456	0.024562
23-May-2033	0.260736	15.794500	25.006200	3.673670	54.567040	2.138910	0.023286	0.226404	0.054160	0.004661	0.002236	0.156323	0.000775	0.015332	0.008843	0.002407	0.024072
24-May-2033	0.280293	15.367300	24.329600	3.574320	53.091198	2.081030	0.022656	0.220277	0.052696	0.004534	0.002175	0.152097	0.000754	0.014917	0.008603	0.002342	0.023420
25-May-2033	0.297207	15.044700	23.818800	3.499310	51.976774	2.037340	0.022180	0.215653	0.051590	0.004439	0.002130	0.148907	0.000738	0.014604	0.008423	0.002293	0.022929
26-May-2033	0.319321	14.661500	23.212000	3.410230	50.653093	1.985420	0.021615	0.210157	0.050277	0.004326	0.002076	0.145118	0.000719	0.014233	0.008208	0.002234	0.022345
27-May-2033	0.333930	14.500600	22.957300	3.372800	50.097189	1.963630	0.021377	0.207851	0.049725	0.004279	0.002053	0.143526	0.000711	0.014076	0.008118	0.002210	0.022099
28-May-2033	0.368267	14.362000	22.737600	3.340600	49.618505	1.944830	0.021173	0.205861	0.049251	0.004238	0.002033	0.142158	0.000704	0.013942	0.008040	0.002189	0.021888
29-May-2033	0.408813	14.317900	22.667700	3.330390	49.466342	1.938830	0.021108	0.205226	0.049101	0.004225	0.002027	0.141726	0.000702	0.013899	0.008016	0.002182	0.021821
30-May-2033	0.444081	14.197600	22.476800	3.302560	49.051349	1.922460	0.020930	0.203495	0.048690	0.004190	0.002010	0.140555	0.000696	0.013783	0.007948	0.002164	0.021637
31-May-2033	0.483338	14.105800	22.331100	3.281360	48.734823	1.909950	0.020794	0.202174	0.048377	0.004163	0.001997	0.139664	0.000692	0.013694	0.007897	0.002150	0.021497
1-Jun-2033	0.517531	13.985800	22.140900	3.253500	48.320456	1.893670	0.020617	0.200451	0.047967	0.004127	0.001980	0.138482	0.000686	0.013578	0.007830	0.002131	0.021314
2-Jun-2033	0.577434	13.819400	21.877300	3.214870	47.745876	1.871100	0.020371	0.198063	0.047398	0.004078	0.001957	0.136841	0.000678	0.013417	0.007737	0.002106	0.021061
3-Jun-2033	0.604637	13.637600	21.588900	3.172720	47.118348	1.846370	0.020102	0.195447	0.046781	0.004024	0.001932	0.135053	0.000669	0.013241	0.007635	0.002078	0.020784
4-Jun-2033	0.728671	13.507900	21.381600	3.143120	46.672594	1.828430	0.019908	0.193556	0.046360	0.003986	0.001914	0.133823	0.000662	0.013117	0.007562	0.002059	0.020586
5-Jun-2033	0.821695	13.297700	21.042400	3.096090	45.954056	1.798780	0.019589	0.190442	0.045727	0.003923	0.001888	0.131899	0.000652	0.012920	0.007443	0.002027	0.020268
6-Jun-2033	0.902607	13.131300	20.770400	3.059900	45.389524	1.774600	0.019331	0.187922	0.045277	0.003872	0.001869	0.130450	0.000643	0.012769	0.007349	0.002002	0.020017
7-Jun-2033	1.001218	12.986200	20.531300	3.028910	44.899593	1.753090	0.019103	0.185689	0.044910	0.003827	0.001853	0.129237	0.000635	0.012640	0.007266	0.001980	0.019800
8-Jun-2033	1.106606	12.850600	20.309300	2.999390	44.439436	1.733300	0.018892	0.183622	0.044542	0.003786	0.001838	0.128077	0.000628	0.012517	0.007189	0.001959	0.019595
9-Jun-2033	1.218877	12.662400	19.999200	2.958980	43.803092	1.705470	0.018597	0.180728	0.044063	0.003728	0.001817	0.126530	0.000619	0.012350	0.007082	0.001931	0.019312
10-Jun-2033	1.358877	12.456200	19.659400	2.914760	43.106113	1.674980	0.018274	0.177568	0.043545	0.003665	0.001795	0.124827	0.000608	0.012166	0.006965	0.001900	0.019002
11-Jun-2033	1.562471	12.268400	19.347100	2.875290	42.474639	1.646570	0.017974	0.174623	0.043109	0.003607	0.001776	0.123338	0.000598	0.012003	0.006857	0.001872	0.018720
12-Jun-2033	1.734595	12.075200	19.020600	2.835990	41.830381	1.616290	0.017656	0.171484	0.042734	0.003546	0.001760	0.121930	0.000587	0.011841	0.006746	0.001843	0.018430
13-Jun-2033	1.852610	11.838300	18.618100	2.788470	41.043155	1.578680	0.017262	0.167590	0.042350	0.003471	0.001741	0.120255	0.000574	0.011645	0.006610	0.001808	0.018077
14-Jun-2033	1.911924	11.636000	18.270600	2.748760	40.374486	1.545800	0.016919	0.164187	0.042199	0.003406	0.001726	0.118903	0.000563	0.011483	0.006493	0.001778	0.017776
15-Jun-2033	1.967196	11.401300	17.869200	2.702130	39.596417	1.508070	0.016525	0.160273	0.041838	0.003332	0.001708	0.117330	0.000550	0.011292	0.006357	0.001743	0.017426
16-Jun-2033	2.001981	11.176200	17.483500	2.657440	38.850309	1.471790	0.016146	0.156513	0.041480	0.003262	0.001690	0.115852	0.000537	0.011110	0.006227	0.001709	0.017089
17-Jun-2033	2.058336	10.974200	17.136700	2.617490	38.181401	1.439100	0.015805	0.153127	0.041228	0.003199	0.001678	0.114543	0.000526	0.010948	0.006111	0.001679	0.016788
18-Jun-2033	2.147858	10.820900	16.872900	2.587410	37.674742	1.414110	0.015544	0.150547	0.040935	0.003150	0.001664	0.113552	0.000518	0.010825	0.006022	0.001656	0.016558
19-Jun-2033	2.257422	10.651400	16.582600	2.553700	37.112682	1.386830	0.015260	0.147735	0.040364	0.003098	0.001651	0.112434	0.000508	0.010688	0.005925	0.001630	0.016305
20-Jun-2033	2.376071	10.500400	16.330800	2.522000	36.605095	1.363880	0.015019	0.145366	0.039994	0.003052	0.001636	0.111274	0.000500	0.010558	0.005838	0.001608	0.016077
21-Jun-2033	2.526192	10.345100	16.069900	2.489930	36.085246	1.339870	0.014767	0.142890	0.039641	0.003004	0.001621	0.110133	0.000492	0.010426	0.005750	0.001584	0.015844
22-Jun-2033	2.687681	10.143600	15.729600	2.448680	35.412233	1.308400	0.014438	0.139652	0.039214	0.002942	0.001603	0.108687	0.000481	0.010257	0.005634	0.001554	0.015542
23-Jun-2033	2.803612	9.998570	15.480500	2.420130	34.932525	1.284910	0.014195	0.137251	0.038953	0.002896	0.001592	0.107754	0.000473	0.010141	0.005551	0.001533	0.015326
24-Jun-2033	2.930060	9.831340	15.198500	2.388180	34.383381	1.258750	0.013924	0.134593	0.038711	0.002844	0.001582	0.106826	0.000464	0.010013	0.005454	0.001508	0.015077
25-Jun-2033	3.088270	9.660120	14.903600	2.354620	33.817645	1.230850	0.013636	0.131747	0.038451	0.002790	0.001570	0.105802	0.000454	0.009878	0.005356	0.001482	0.014822
26-Jun-2033	3.278834	9.507210	14.625800	2.325650	33.316530	1.203510	0.013356	0.128964	0.038212	0.002744	0.001560	0.104921	0.000445	0.009761	0.005266	0.001459	0.014592
27-Jun-2033	3.419728	9.351640	14.358500	2.294950	32.801649	1.178220	0.013095	0.126364	0.037927	0.002696	0.001548	0.103934	0.000436	0.009636	0.005177	0.001436	0.014359
28-Jun-2033	3.620864	9.198880	14.090700	2.265780	32.300085	1.152590	0.012831	0.123747	0.037716	0.002650	0.001539	0.103153	0.000427	0.009521	0.005088	0.001413	0.014130
29-Jun-2033	3.753293	9.002130	13.758600	2.227910	31.652852	1.121830	0.012513	0.120633	0.037430	0.002591	0.001526	0.102114	0.000417	0.009371	0.004975	0.001384	0.013838
30-Jun-2033	6.248779	7.631280	11.349500	1.968570	27.161877	0.889343	0.010114	0.096796	0.035125	0.002159	0.001443	0.094396	0.000338	0.008325	0.004180	0.001177	0.011765
1-Jul-2033	7.625022	7.388010	10.915000	1.916320	26.339267	0.848618	0.009693	0.092615	0.034966	0.002104	0.001425	0.093800	0.000323	0.008174	0.004047	0.001140	0.011401
2-Jul-2033	8.535336	7.329960	10.800900	1.903850	26.142964	0.837777	0.009585	0.091541	0.035019	0.002101	0.001422	0.094209	0.000320	0.008157	0.004017	0.001131	0.011313
3-Jul-2033	9.726979	7.421500	10.959400	1.915540	26.419679	0.854217	0.009751	0.093205	0.035228	0.002143	0.001423	0.095094	0.000325	0.008247	0.004077	0.001145	0.011448
4-Jul-2033	10.270219	7.323230	10.790900	1.900110	26.110758	0.837492	0.009578	0.091477	0.034926	0.002106	0.001418	0.094291	0.000320	0.008154	0.004016	0.001130	0.011300
5-Jul-2033	11.192306	7.456150	11.031200	1.920530	26.526749	0.861582	0.009820	0.093894	0.035130	0.002148	0.001422	0.094797	0.000328	0.008257	0.004097	0.001150	0.011500
6-Jul-2033	11.662029	7.523660	11.149400	1.931900	26.742143	0.873364	0.009940	0.095096	0.035223	0.002174	0.001424	0.095320	0.000332	0.008312	0.004137	0.001160	0.011598
7-Jul-2033	10.552379	7.433350	10.992500	1.918530	26.461581	0.857556	0.009779	0.093480	0.034994	0.002139	0.001421	0.094595	0.000326	0.008228	0.004081	0.001146	0.011464
8-Jul-2033	10.447425	7.516010	11.143800	1.931570	26.721682	0.872678	0.009930	0.094989	0.035093	0.002163	0.001423	0.094805	0.000331	0.008288	0.004130	0.001159	0.011589
9-Jul-2033	10.262091	7.606680	11.309100	1.946190	27.008290	0.889189	0.010095	0.096640	0.035187	0.002191	0.001425	0.095080	0.000337	0.008352	0.004184	0.001172	0.011725

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Jul-2033	10.668933	7.667130	11.417000	1.955720	27.198479	0.899980	0.010204	0.097732	0.035288	0.002212	0.001427	0.095394	0.000340	0.008401	0.004221	0.001182	0.011816
11-Jul-2033	11.411379	7.766110	11.597700	1.971580	27.510943	0.918029	0.010384	0.099533	0.035394	0.002241	0.001429	0.095674	0.000346	0.008471	0.004280	0.001196	0.011964
12-Jul-2033	12.144856	8.355570	12.674100	2.061980	29.355092	1.026030	0.011464	0.110340	0.036243	0.002420	0.001442	0.097331	0.000382	0.008912	0.004638	0.001286	0.012858
13-Jul-2033	12.087156	8.454260	12.855400	2.076870	29.662838	1.044250	0.011644	0.112136	0.036350	0.002449	0.001443	0.097548	0.000388	0.008983	0.004698	0.001301	0.013007
14-Jul-2033	12.773656	7.912950	11.866400	1.995730	27.977052	0.944816	0.010652	0.102208	0.035515	0.002286	0.001433	0.096078	0.000355	0.008572	0.004368	0.001219	0.012185
15-Jul-2033	12.683223	7.872940	11.789100	1.990640	27.856187	0.936962	0.010576	0.101443	0.035455	0.002278	0.001433	0.096231	0.000353	0.008545	0.004343	0.001212	0.012122
16-Jul-2033	13.547215	7.986670	11.997100	2.008700	28.214542	0.957747	0.010783	0.103516	0.035586	0.002312	0.001436	0.096528	0.000360	0.008626	0.004411	0.001229	0.012293
17-Jul-2033	14.855500	8.121550	12.242600	2.029590	28.637362	0.982337	0.011029	0.105979	0.035782	0.002353	0.001439	0.096946	0.000368	0.008728	0.004493	0.001250	0.012497
18-Jul-2033	14.510298	8.038500	12.090900	2.017850	28.381641	0.967026	0.010877	0.104449	0.035619	0.002329	0.001437	0.096737	0.000363	0.008661	0.004441	0.001237	0.012370
19-Jul-2033	14.591517	8.166430	12.324200	2.037780	28.783154	0.990381	0.011110	0.106783	0.035791	0.002367	0.001440	0.097111	0.000371	0.008756	0.004519	0.001256	0.012563
20-Jul-2033	14.879679	8.212680	12.410500	2.045960	28.932325	0.998927	0.011195	0.107626	0.035784	0.002380	0.001441	0.097149	0.000374	0.008782	0.004545	0.001263	0.012632
21-Jul-2033	15.414327	8.723890	13.343200	2.124440	30.531997	1.092520	0.012130	0.116984	0.036511	0.002536	0.001452	0.098640	0.000405	0.009163	0.004855	0.001341	0.013406
22-Jul-2033	16.119598	8.817570	13.506300	2.140780	30.833204	1.108790	0.012297	0.118637	0.036625	0.002575	0.001455	0.099445	0.000410	0.009236	0.004911	0.001354	0.013540
23-Jul-2033	16.377458	8.416630	12.776200	2.079660	29.580365	1.035440	0.011563	0.111304	0.036024	0.002450	0.001447	0.098183	0.000386	0.008934	0.004667	0.001293	0.012934
24-Jul-2033	16.335038	8.350140	12.656300	2.070380	29.376124	1.023330	0.011442	0.110088	0.035864	0.002429	0.001446	0.097926	0.000382	0.008877	0.004626	0.001283	0.012833
25-Jul-2033	15.394302	8.454550	12.846700	2.086600	29.703630	1.042410	0.011633	0.111997	0.036002	0.002461	0.001448	0.098241	0.000388	0.008955	0.004689	0.001299	0.012991
26-Jul-2033	14.733731	8.472890	12.880400	2.089980	29.763344	1.045740	0.011666	0.112331	0.035995	0.002466	0.001448	0.098301	0.000389	0.008965	0.004699	0.001302	0.013018
27-Jul-2033	14.577569	8.570160	13.057800	2.105460	30.069974	1.063470	0.011843	0.114101	0.036111	0.002496	0.001451	0.098586	0.000395	0.009036	0.004758	0.001316	0.013164
28-Jul-2033	13.757473	8.431210	12.805600	2.085650	29.641438	1.038020	0.011589	0.111549	0.035825	0.002452	0.001448	0.098132	0.000387	0.008922	0.004671	0.001295	0.012952
29-Jul-2033	12.872462	8.513210	12.954300	2.098640	29.899685	1.052940	0.011738	0.113046	0.035922	0.002479	0.001450	0.098456	0.000392	0.008983	0.004721	0.001307	0.013075
30-Jul-2033	12.545827	8.574980	13.066700	2.108700	30.095352	1.064190	0.011851	0.114171	0.035980	0.002499	0.001451	0.098673	0.000396	0.009027	0.004758	0.001317	0.013167
31-Jul-2033	11.762256	8.824980	13.523400	2.147170	30.878021	1.110030	0.012309	0.118756	0.036317	0.002575	0.001456	0.099389	0.000411	0.009212	0.004909	0.001354	0.013545
1-Aug-2033	11.919848	8.946000	13.743900	2.166420	31.259480	1.132070	0.012529	0.120958	0.036461	0.002612	0.001459	0.099761	0.000418	0.009300	0.004982	0.001373	0.013727
2-Aug-2033	12.520188	8.794150	13.467600	2.144100	30.788396	1.104280	0.012252	0.118177	0.036181	0.002566	0.001456	0.099318	0.000409	0.009180	0.004889	0.001350	0.013496
3-Aug-2033	13.344027	9.009260	13.859500	2.177270	31.462120	1.143630	0.012645	0.122113	0.036473	0.002633	0.001461	0.100006	0.000422	0.009341	0.005019	0.001382	0.013820
4-Aug-2033	14.260635	9.090380	14.006200	2.190520	31.719240	1.158310	0.012792	0.123583	0.036556	0.002660	0.001463	0.100377	0.000427	0.009399	0.005068	0.001394	0.013941
5-Aug-2033	14.485127	9.567200	14.877100	2.264860	33.215992	1.245630	0.013664	0.132304	0.037174	0.002806	0.001473	0.101744	0.000456	0.009748	0.005355	0.001466	0.014660
6-Aug-2033	15.615756	8.965830	13.778900	2.176210	31.349310	1.135180	0.012560	0.121251	0.036161	0.002627	0.001461	0.100172	0.000419	0.009282	0.004987	0.001374	0.013740
7-Aug-2033	15.597181	9.429210	14.627000	2.246330	32.795124	1.220300	0.013409	0.129750	0.036831	0.002764	0.001470	0.101315	0.000448	0.009629	0.005268	0.001445	0.014445
8-Aug-2033	15.613310	9.769920	15.251100	2.298420	33.860384	1.282920	0.014033	0.135997	0.037295	0.002865	0.001477	0.102158	0.000469	0.009880	0.005475	0.001496	0.014963
9-Aug-2033	15.718844	9.789740	15.290500	2.301370	33.922022	1.286860	0.014071	0.136371	0.037270	0.002867	0.001477	0.102011	0.000470	0.009889	0.005486	0.001499	0.014994
10-Aug-2033	15.946771	9.625240	14.990900	2.277250	33.411940	1.256700	0.013769	0.133352	0.036981	0.002817	0.001474	0.101536	0.000460	0.009760	0.005385	0.001474	0.014744
11-Aug-2033	16.367573	9.727240	15.178600	2.293810	33.734828	1.275430	0.013956	0.135217	0.037076	0.002847	0.001476	0.101762	0.000466	0.009829	0.005446	0.001490	0.014898
12-Aug-2033	14.993083	9.035650	13.914500	2.191230	31.585503	1.148340	0.012687	0.122510	0.035935	0.002641	0.001462	0.100018	0.000424	0.009299	0.005023	0.001384	0.013843
13-Aug-2033	15.786998	9.181180	14.181600	2.213910	32.042288	1.175090	0.012953	0.125174	0.036109	0.002684	0.001465	0.100453	0.000433	0.009404	0.005110	0.001406	0.014062
14-Aug-2033	15.884563	10.296800	16.218600	2.384280	35.529575	1.379580	0.014994	0.145597	0.037697	0.003023	0.001488	0.103528	0.000501	0.010237	0.005788	0.001575	0.015751
15-Aug-2033	15.650787	9.767530	15.254300	2.303940	33.877147	1.282700	0.014026	0.135915	0.036908	0.002860	0.001477	0.101898	0.000469	0.009836	0.005465	0.001495	0.014952
16-Aug-2033	15.634896	9.617410	14.980700	2.282410	33.413637	1.255130	0.013750	0.133149	0.036605	0.002815	0.001474	0.101496	0.000460	0.009716	0.005373	0.001472	0.014722
17-Aug-2033	15.555888	9.767810	15.255100	2.306600	33.888800	1.282630	0.014023	0.135882	0.036730	0.002863	0.001477	0.102007	0.000469	0.009822	0.005463	0.001495	0.014946
18-Aug-2033	15.519935	9.417470	14.612300	2.255960	32.805466	1.217910	0.013377	0.129406	0.036124	0.002763	0.001471	0.101334	0.000447	0.009551	0.005248	0.001441	0.014408
19-Aug-2033	15.173127	9.316370	14.430600	2.240370	32.488820	1.199650	0.013194	0.127574	0.035948	0.002729	0.001469	0.100858	0.000441	0.009472	0.005186	0.001426	0.014257
20-Aug-2033	14.301292	9.407230	14.596500	2.254770	32.774996	1.216280	0.013359	0.129230	0.036044	0.002757	0.001471	0.101143	0.000447	0.009537	0.005241	0.001439	0.014393
21-Aug-2033	14.065071	9.538500	14.836200	2.275320	33.187402	1.240300	0.013599	0.131624	0.036204	0.002797	0.001473	0.101531	0.000455	0.009632	0.005320	0.001459	0.014591
22-Aug-2033	13.944700	10.301100	16.229000	2.391340	35.569385	1.380130	0.014994	0.145590	0.037310	0.003028	0.001489	0.103646	0.000501	0.010204	0.005783	0.001575	0.015747
23-Aug-2033	13.801444	10.278100	16.188300	2.388350	35.499641	1.376000	0.014952	0.145168	0.037229	0.003020	0.001488	0.103519	0.000500	0.010182	0.005768	0.001571	0.015711
24-Aug-2033	13.635881	9.917060	15.533200	2.335310	34.379705	1.310050	0.014291	0.138553	0.036560	0.002908	0.001481	0.102329	0.000478	0.009894	0.005546	0.001516	0.015162
25-Aug-2033	13.611890	9.511890	14.792900	2.275450	33.121492	1.235570	0.013547	0.131100	0.035892	0.002787	0.001473	0.101286	0.000453	0.009583	0.005298	0.001454	0.014543
26-Aug-2033	13.121977	9.520870	14.809500	2.277290	33.151493	1.237200	0.013563	0.131260	0.035883	0.002790	0.001473	0.101318	0.000454	0.009587	0.005303	0.001456	0.014557
27-Aug-2033	12.386075	9.553410	14.871600	2.283260	33.257329	1.243330	0.013623	0.131855	0.035848	0.002797	0.001474	0.101273	0.000456	0.009601	0.005321	0.001461	0.014605
28-Aug-2033	11.260419	9.543380	14.852800	2.282770	33.230267	1.241360	0.013603	0.131650	0.035783	0.002796	0.001474	0.101322	0.000455	0.009590	0.005314	0.001459	0.014588
29-Aug-2033	11.163033	9.734560	15.203000	2.312240	33.829001	1.276470	0.013952	0.135151	0.036031	0.002853	0.001478	0.101798	0.000467	0.009729	0.005429	0.001488	0.014877
30-Aug-2033	10.641288	9.803180	15.328500	2.323230	34.045602	1.289000	0.014077	0.136403	0.036114	0.002873	0.001479	0.101988	0.000471	0.009778	0.005470	0.001498	0.014982

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Aug-2033	9.916278	9.931090	15.560800	2.344150	34.451141	1.312230	0.014308	0.138711	0.036220	0.002915	0.001482	0.102491	0.000479	0.009869	0.005547	0.001517	0.015171
1-Sep-2033	8.614779	9.780230	15.283600	2.322580	33.985619	1.284410	0.014029	0.135913	0.035907	0.002875	0.001479	0.102308	0.000470	0.009751	0.005454	0.001494	0.014937
2-Sep-2033	7.914957	9.765850	15.258500	2.320800	33.942382	1.281880	0.014003	0.135653	0.035848	0.002871	0.001479	0.102240	0.000469	0.009736	0.005445	0.001491	0.014915
3-Sep-2033	8.393280	9.874280	15.457700	2.337450	34.281696	1.301900	0.014202	0.137647	0.035980	0.002903	0.001481	0.102492	0.000476	0.009814	0.005510	0.001508	0.015079
4-Sep-2033	7.704295	9.968530	15.629800	2.352070	34.577244	1.319150	0.014375	0.139370	0.036106	0.002932	0.001483	0.102771	0.000481	0.009884	0.005567	0.001522	0.015221
5-Sep-2033	7.720654	9.950150	15.598500	2.349640	34.521342	1.316120	0.014343	0.139052	0.036009	0.002927	0.001481	0.102682	0.000480	0.009863	0.005556	0.001519	0.015191
6-Sep-2033	7.795642	9.924160	15.549900	2.346700	34.444338	1.311280	0.014293	0.138555	0.035904	0.002924	0.001481	0.102818	0.000479	0.009840	0.005539	0.001515	0.015146
7-Sep-2033	7.821411	10.262300	16.168400	2.397660	35.498527	1.373390	0.014914	0.144762	0.036414	0.003024	0.001487	0.103643	0.000499	0.010094	0.005745	0.001566	0.015661
8-Sep-2033	8.012358	10.422500	16.461300	2.422530	36.000961	1.402830	0.015207	0.147698	0.036606	0.003074	0.001490	0.104150	0.000509	0.010211	0.005842	0.001590	0.015902
9-Sep-2033	8.125897	10.794500	17.140600	2.479700	37.165271	1.471120	0.015887	0.154503	0.037088	0.003190	0.001498	0.105300	0.000532	0.010486	0.006067	0.001646	0.016462
10-Sep-2033	8.371666	10.715600	16.997700	2.466910	36.915589	1.456670	0.015744	0.153076	0.037034	0.003161	0.001496	0.104865	0.000527	0.010430	0.006020	0.001635	0.016347
11-Sep-2033	9.542740	10.550900	16.698600	2.442210	36.402618	1.426760	0.015444	0.150076	0.036736	0.003112	0.001492	0.104411	0.000517	0.010301	0.005919	0.001610	0.016096
12-Sep-2033	10.364477	10.352800	16.337700	2.412420	35.785287	1.390500	0.015082	0.146451	0.036427	0.003052	0.001488	0.103829	0.000505	0.010150	0.005798	0.001580	0.015795
13-Sep-2033	9.008225	10.261700	16.174800	2.398570	35.500776	1.374250	0.014919	0.144814	0.036234	0.003023	0.001485	0.103440	0.000500	0.010074	0.005742	0.001566	0.015656
14-Sep-2033	7.628301	10.315800	16.273600	2.407010	35.670620	1.384200	0.015018	0.145805	0.036295	0.003040	0.001486	0.103621	0.000503	0.010114	0.005775	0.001574	0.015738
15-Sep-2033	6.517896	10.350100	16.337600	2.412350	35.778257	1.390640	0.015081	0.146444	0.036318	0.003050	0.001487	0.103653	0.000505	0.010136	0.005796	0.001579	0.015789
16-Sep-2033	6.643194	10.461800	16.543000	2.429860	36.129278	1.411390	0.015287	0.148502	0.036412	0.003086	0.001488	0.104011	0.000512	0.010214	0.005863	0.001595	0.015955
17-Sep-2033	5.983616	10.483900	16.581200	2.433800	36.200687	1.415300	0.015326	0.148890	0.036409	0.003097	0.001489	0.104290	0.000513	0.010231	0.005876	0.001598	0.015984
18-Sep-2033	5.962225	10.558500	16.718400	2.445160	36.433743	1.429060	0.015463	0.150262	0.036508	0.003119	0.001490	0.104427	0.000518	0.010285	0.005921	0.001610	0.016097
19-Sep-2033	5.668296	10.623500	16.838200	2.455190	36.637352	1.441110	0.015583	0.151461	0.036578	0.003138	0.001491	0.104576	0.000522	0.010331	0.005961	0.001619	0.016195
20-Sep-2033	5.508788	10.673100	16.929600	2.462950	36.793159	1.450380	0.015675	0.152379	0.036613	0.003154	0.001492	0.104736	0.000525	0.010365	0.005990	0.001627	0.016268
21-Sep-2033	5.449089	11.009000	17.543200	2.514130	37.842660	1.512020	0.016290	0.158537	0.037093	0.003257	0.001498	0.105698	0.000546	0.010617	0.006195	0.001678	0.016777
22-Sep-2033	4.973530	11.280700	18.039800	2.555150	38.690016	1.561800	0.016787	0.163513	0.037513	0.003337	0.001504	0.106355	0.000562	0.010822	0.006360	0.001719	0.017192
23-Sep-2033	4.982592	12.527000	20.315400	2.744660	42.582429	1.790300	0.019067	0.186335	0.039322	0.003714	0.001530	0.109841	0.000638	0.011757	0.007117	0.001908	0.019080
24-Sep-2033	4.994225	11.188900	17.872100	2.541320	38.403839	1.544780	0.016618	0.161817	0.037417	0.003305	0.001503	0.105997	0.000556	0.010754	0.006304	0.001706	0.017055
25-Sep-2033	5.233136	11.128500	17.765000	2.532270	38.215752	1.534220	0.016511	0.160747	0.037242	0.003287	0.001501	0.105761	0.000553	0.010701	0.006266	0.001696	0.016962
26-Sep-2033	4.749737	10.987200	17.510200	2.510980	37.775254	1.508850	0.016256	0.158199	0.036951	0.003246	0.001496	0.105330	0.000545	0.010587	0.006180	0.001675	0.016745
27-Sep-2033	3.958898	10.967100	17.474200	2.508090	37.713163	1.505300	0.016220	0.157839	0.036894	0.003241	0.001495	0.105283	0.000543	0.010569	0.006168	0.001671	0.016714
28-Sep-2033	3.535593	11.015300	17.563500	2.515560	37.864280	1.514240	0.016309	0.158728	0.036949	0.003254	0.001496	0.105336	0.000546	0.010603	0.006197	0.001679	0.016787
29-Sep-2033	3.054373	11.603100	18.635500	2.604970	39.700207	1.621790	0.017383	0.169477	0.037830	0.003432	0.001509	0.107010	0.000582	0.011046	0.006554	0.001768	0.017678
30-Sep-2033	2.993512	12.070800	19.489400	2.676100	41.160967	1.707530	0.018238	0.178041	0.038510	0.003573	0.001519	0.108324	0.000611	0.011397	0.006838	0.001839	0.018387
1-Oct-2033	3.002313	11.852800	19.092400	2.643030	40.480439	1.667680	0.017840	0.174057	0.038173	0.003507	0.001514	0.107676	0.000597	0.011232	0.006705	0.001806	0.018056
2-Oct-2033	2.793814	11.009600	17.549100	2.514980	37.847659	1.512380	0.016293	0.158566	0.037058	0.003249	0.001499	0.105347	0.000546	0.010608	0.006193	0.001678	0.016782
3-Oct-2033	2.573995	10.867300	17.294400	2.493170	37.402522	1.487190	0.016039	0.156027	0.036784	0.003207	0.001495	0.104853	0.000537	0.010490	0.006106	0.001656	0.016563
4-Oct-2033	2.581289	10.823900	17.216300	2.486380	37.266191	1.479490	0.015961	0.155250	0.036652	0.003194	0.001492	0.104699	0.000535	0.010456	0.006080	0.001650	0.016497
5-Oct-2033	2.681264	10.785000	17.145600	2.480370	37.144309	1.472450	0.015890	0.154546	0.036571	0.003184	0.001491	0.104627	0.000532	0.010425	0.006057	0.001644	0.016437
6-Oct-2033	2.194956	10.701300	16.994300	2.467160	36.880911	1.457550	0.015740	0.153048	0.036407	0.003161	0.001488	0.104452	0.000527	0.010360	0.006006	0.001631	0.016308
7-Oct-2033	1.624568	10.669600	16.936700	2.462200	36.781331	1.451910	0.015683	0.152480	0.036346	0.003154	0.001487	0.104397	0.000526	0.010335	0.005987	0.001626	0.016259
8-Oct-2033	1.443222	10.659300	16.917400	2.460560	36.748858	1.449900	0.015664	0.152285	0.036349	0.003149	0.001487	0.104360	0.000525	0.010330	0.005981	0.001624	0.016244
9-Oct-2033	1.000022	10.623100	16.851600	2.454750	36.634541	1.443430	0.015599	0.151637	0.036300	0.003140	0.001486	0.104299	0.000523	0.010302	0.005959	0.001619	0.016189
10-Oct-2033	0.091300	10.604000	16.816900	2.451710	36.574330	1.440040	0.015565	0.151297	0.036264	0.003135	0.001485	0.104259	0.000522	0.010288	0.005948	0.001616	0.016159
11-Oct-2033	0.046886	10.567500	16.750000	2.445750	36.458646	1.433370	0.015498	0.150634	0.036216	0.003124	0.001484	0.104153	0.000519	0.010262	0.005926	0.001610	0.016104
12-Oct-2033	0.107788	10.548600	16.715900	2.442550	36.398275	1.429980	0.015465	0.150297	0.036204	0.003118	0.001483	0.104078	0.000518	0.010249	0.005915	0.001608	0.016076
13-Oct-2033	0.099389	10.555000	16.727900	2.443410	36.417797	1.431210	0.015477	0.150418	0.036206	0.003120	0.001483	0.104068	0.000519	0.010253	0.005919	0.001609	0.016086
14-Oct-2033	0.095038	10.550300	16.719600	2.442700	36.403138	1.430410	0.015469	0.150338	0.036203	0.003118	0.001483	0.104060	0.000518	0.010250	0.005916	0.001608	0.016079
15-Oct-2033	0.090138	10.547700	16.714900	2.442210	36.394628	1.429950	0.015464	0.150291	0.036202	0.003118	0.001483	0.104053	0.000518	0.010248	0.005914	0.001607	0.016075
16-Oct-2033	0.093546	10.552700	16.722800	2.443310	36.411642	1.430630	0.015471	0.150363	0.036209	0.003119	0.001483	0.104109	0.000518	0.010253	0.005917	0.001608	0.016082
17-Oct-2033	0.094882	10.651200	16.877500	2.466530	36.753217	1.443740	0.015614	0.151745	0.036554	0.003149	0.001498	0.105215	0.000523	0.010350	0.005972	0.001623	0.016232
18-Oct-2033	0.095914	10.709200	16.968500	2.480310	36.954789	1.451430	0.015698	0.152557	0.036767	0.003166	0.001509	0.106253	0.000526	0.010407	0.006005	0.001632	0.016320
19-Oct-2033	0.095836	10.719200	16.979400	2.484110	36.995407	1.451840	0.015705	0.152621	0.036835	0.003169	0.001510	0.106324	0.000526	0.010422	0.006009	0.001634	0.016336
20-Oct-2033	0.098218	10.745600	17.018000	2.491230	37.090648	1.454850	0.015739	0.152948	0.036942	0.003178	0.001515	0.106362	0.000527	0.010450	0.006024	0.001638	0.016376
21-Oct-2033	0.097627	10.750400	17.025200	2.492450	37.107658	1.455420	0.015746	0.153010	0.036963	0.003179	0.001516	0.106423	0.000528	0.010455	0.006026	0.001638	0.016383

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
22-Oct-2033	0.095800	10.787600	17.081600	2.501910	37.239503	1.460000	0.015797	0.153500	0.037102	0.003191	0.001522	0.106893	0.000529	0.010493	0.006047	0.001644	0.016439
23-Oct-2033	0.094233	10.813300	17.121200	2.508180	37.329495	1.463510	0.015834	0.153864	0.037189	0.003199	0.001526	0.107193	0.000531	0.010519	0.006061	0.001648	0.016478
24-Oct-2033	0.091895	10.834400	17.153500	2.513510	37.404131	1.465990	0.015862	0.154133	0.037261	0.003206	0.001530	0.107462	0.000532	0.010540	0.006073	0.001651	0.016509
25-Oct-2033	0.090013	10.855700	17.184400	2.519410	37.481613	1.468370	0.015890	0.154394	0.037338	0.003214	0.001534	0.107799	0.000532	0.010563	0.006084	0.001654	0.016541
26-Oct-2033	0.091233	10.877700	17.218300	2.524770	37.558620	1.471210	0.015921	0.154695	0.037412	0.003221	0.001537	0.108054	0.000533	0.010584	0.006096	0.001657	0.016574
27-Oct-2033	0.091154	10.918800	17.285600	2.533930	37.698967	1.477150	0.015984	0.155312	0.037546	0.003232	0.001543	0.108481	0.000536	0.010623	0.006120	0.001664	0.016637
28-Oct-2033	0.091018	10.956200	17.340700	2.543610	37.832217	1.481490	0.016033	0.155782	0.037690	0.003245	0.001549	0.108968	0.000537	0.010662	0.006140	0.001669	0.016693
29-Oct-2033	0.090785	10.994900	17.401400	2.553160	37.968178	1.486640	0.016089	0.156325	0.037825	0.003257	0.001556	0.109622	0.000539	0.010700	0.006161	0.001675	0.016752
30-Oct-2033	0.090269	11.040100	17.471600	2.564050	38.125888	1.492490	0.016153	0.156945	0.037985	0.003270	0.001563	0.110174	0.000541	0.010745	0.006187	0.001682	0.016820
31-Oct-2033	0.089798	11.086500	17.542300	2.575470	38.288776	1.498300	0.016218	0.157565	0.038153	0.003285	0.001571	0.110582	0.000543	0.010792	0.006212	0.001689	0.016890
1-Nov-2033	0.089452	11.130600	17.609300	2.586520	38.444398	1.503770	0.016278	0.158149	0.038314	0.003299	0.001578	0.111070	0.000545	0.010838	0.006236	0.001696	0.016956
2-Nov-2033	0.089300	11.176500	17.680500	2.597680	38.604967	1.509710	0.016343	0.158779	0.038478	0.003313	0.001584	0.111563	0.000548	0.010883	0.006262	0.001703	0.017026
3-Nov-2033	0.089295	11.220100	17.748000	2.608230	38.757281	1.515360	0.016405	0.159376	0.038633	0.003326	0.001591	0.112018	0.000550	0.010927	0.006286	0.001709	0.017092
4-Nov-2033	0.089378	11.263400	17.814800	2.618820	38.909011	1.520910	0.016466	0.159966	0.038789	0.003340	0.001598	0.112464	0.000552	0.010970	0.006310	0.001716	0.017158
5-Nov-2033	0.089345	11.294800	17.862100	2.626970	39.020978	1.524720	0.016509	0.160375	0.038906	0.003350	0.001603	0.112938	0.000553	0.011003	0.006327	0.001720	0.017205
6-Nov-2033	0.088836	11.328500	17.913500	2.635490	39.140212	1.528920	0.016555	0.160824	0.039026	0.003360	0.001609	0.113331	0.000555	0.011037	0.006345	0.001726	0.017256
7-Nov-2033	0.087713	11.369500	17.976500	2.645700	39.284634	1.534130	0.016613	0.161378	0.039173	0.003373	0.001615	0.113765	0.000557	0.011078	0.006368	0.001732	0.017318
8-Nov-2033	0.086363	11.405800	18.033300	2.654320	39.410772	1.538920	0.016665	0.161884	0.039299	0.003384	0.001621	0.114157	0.000558	0.011114	0.006388	0.001737	0.017373
9-Nov-2033	0.084583	11.429700	18.071400	2.659720	39.492688	1.542220	0.016701	0.162229	0.039379	0.003391	0.001624	0.114385	0.000560	0.011137	0.006402	0.001741	0.017409
10-Nov-2033	0.082939	11.481900	18.154900	2.671900	39.673189	1.549450	0.016778	0.162986	0.039554	0.003407	0.001631	0.114938	0.000562	0.011187	0.006431	0.001749	0.017489
11-Nov-2033	0.081870	11.546800	18.258900	2.686170	39.894008	1.558460	0.016875	0.163928	0.039769	0.003426	0.001639	0.115469	0.000565	0.011249	0.006468	0.001759	0.017588
12-Nov-2033	0.080915	11.573700	18.303000	2.691990	39.985144	1.562370	0.016916	0.164334	0.039854	0.003433	0.001643	0.115687	0.000567	0.011274	0.006483	0.001763	0.017629
13-Nov-2033	0.079698	11.612300	18.367600	2.699800	40.113690	1.568220	0.016978	0.164937	0.039971	0.003444	0.001647	0.115947	0.000569	0.011309	0.006505	0.001769	0.017689
14-Nov-2033	0.078688	11.648400	18.426600	2.707820	40.236858	1.573430	0.017033	0.165479	0.040087	0.003454	0.001652	0.116301	0.000571	0.011342	0.006526	0.001774	0.017744
15-Nov-2033	0.078232	11.678800	18.475900	2.714260	40.339286	1.577750	0.017079	0.165929	0.040186	0.003463	0.001655	0.116475	0.000572	0.011371	0.006543	0.001779	0.017791
16-Nov-2033	0.077996	11.712200	18.529900	2.721650	40.453118	1.582460	0.017130	0.166421	0.040296	0.003472	0.001659	0.116762	0.000574	0.011402	0.006562	0.001784	0.017842
17-Nov-2033	0.077913	11.746700	18.586600	2.728960	40.569367	1.587510	0.017183	0.166944	0.040406	0.003482	0.001663	0.117019	0.000576	0.011434	0.006582	0.001789	0.017895
18-Nov-2033	0.077582	11.768400	18.622200	2.733600	40.642660	1.590670	0.017217	0.167272	0.040476	0.003488	0.001665	0.117202	0.000577	0.011454	0.006594	0.001793	0.017928
19-Nov-2033	0.077211	11.822500	18.695200	2.750250	40.846312	1.595780	0.017278	0.167849	0.040702	0.003508	0.001678	0.118245	0.000579	0.011517	0.006622	0.001801	0.018007
20-Nov-2033	0.076912	11.866800	18.777400	2.756660	40.983325	1.603880	0.017360	0.168663	0.040814	0.003517	0.001680	0.118193	0.000582	0.011551	0.006649	0.001808	0.018078
21-Nov-2033	0.076607	11.912400	18.848900	2.767460	41.141663	1.609930	0.017426	0.169301	0.040973	0.003531	0.001686	0.118674	0.000584	0.011596	0.006675	0.001815	0.018147
22-Nov-2033	0.076902	11.968700	18.938900	2.780200	41.334708	1.617700	0.017509	0.170115	0.041167	0.003547	0.001694	0.119188	0.000587	0.011650	0.006706	0.001823	0.018233
23-Nov-2033	0.077124	12.001800	18.992500	2.787480	41.447337	1.622390	0.017559	0.170605	0.041275	0.003557	0.001698	0.119469	0.000588	0.011681	0.006725	0.001828	0.018284
24-Nov-2033	0.077294	12.014500	19.013300	2.790210	41.490291	1.624220	0.017579	0.170795	0.041317	0.003560	0.001700	0.119567	0.000589	0.011693	0.006732	0.001830	0.018303
25-Nov-2033	0.077550	12.059200	19.084000	2.800610	41.644734	1.630260	0.017644	0.171430	0.041471	0.003573	0.001706	0.120013	0.000591	0.011736	0.006757	0.001837	0.018371
26-Nov-2033	0.077863	12.112100	19.167400	2.813040	41.828012	1.637340	0.017721	0.172176	0.041655	0.003589	0.001714	0.120557	0.000594	0.011788	0.006787	0.001845	0.018452
27-Nov-2033	0.078036	12.154400	19.234000	2.823200	41.975474	1.643020	0.017783	0.172774	0.041802	0.003602	0.001721	0.121096	0.000596	0.011829	0.006811	0.001852	0.018516
28-Nov-2033	0.078043	12.184200	19.280800	2.830840	42.081347	1.646980	0.017826	0.173192	0.041911	0.003612	0.001725	0.121420	0.000597	0.011861	0.006827	0.001856	0.018562
29-Nov-2033	0.078115	12.227600	19.347700	2.840690	42.230279	1.652520	0.017887	0.173780	0.042058	0.003624	0.001731	0.121814	0.000599	0.011902	0.006851	0.001863	0.018627
30-Nov-2033	0.078103	12.270400	19.416200	2.850300	42.376724	1.658480	0.017950	0.174402	0.042202	0.003637	0.001737	0.122200	0.000602	0.011943	0.006875	0.001869	0.018693
1-Dec-2033	0.077999	12.315900	19.489600	2.860460	42.532177	1.664840	0.018019	0.175069	0.042357	0.003650	0.001743	0.122616	0.000604	0.011987	0.006901	0.001876	0.018762
2-Dec-2033	0.077895	12.360000	19.559500	2.870630	42.684174	1.670830	0.018084	0.175698	0.042507	0.003663	0.001749	0.123043	0.000606	0.012029	0.006926	0.001883	0.018830
3-Dec-2033	0.077739	12.404500	19.627900	2.882910	42.845860	1.676640	0.018147	0.176310	0.042674	0.003678	0.001758	0.123818	0.000608	0.012076	0.006950	0.001890	0.018896
4-Dec-2033	0.077524	12.442200	19.688300	2.890980	42.973229	1.681730	0.018202	0.176848	0.042799	0.003688	0.001762	0.124040	0.000610	0.012112	0.006972	0.001895	0.018954
5-Dec-2033	0.077337	12.483400	19.749300	2.901110	43.117821	1.686880	0.018258	0.177391	0.042948	0.003701	0.001768	0.124489	0.000612	0.012154	0.006994	0.001902	0.019016
6-Dec-2033	0.077235	12.523600	19.813900	2.910090	43.255180	1.692350	0.018318	0.177967	0.043082	0.003713	0.001774	0.124845	0.000614	0.012192	0.007017	0.001908	0.019077
7-Dec-2033	0.077227	12.571700	19.892500	2.920960	43.420048	1.699110	0.018391	0.178678	0.043244	0.003727	0.001780	0.125291	0.000616	0.012238	0.007044	0.001915	0.019151
8-Dec-2033	0.077247	12.616900	19.962600	2.931470	43.576193	1.704960	0.018455	0.179298	0.043400	0.003740	0.001786	0.125735	0.000618	0.012282	0.007069	0.001922	0.019220
9-Dec-2033	0.077205	12.662800	20.035800	2.941940	43.733921	1.711260	0.018523	0.179958	0.043556	0.003754	0.001793	0.126169	0.000621	0.012326	0.007095	0.001929	0.019290
10-Dec-2033	0.077021	12.699200	20.093900	2.950230	43.858950	1.716270	0.018577	0.180484	0.043679	0.003764	0.001798	0.126512	0.000622	0.012361	0.007116	0.001935	0.019346
11-Dec-2033	0.076855	12.738400	20.155500	2.959440	43.994759	1.721510	0.018633	0.181035	0.043814	0.003776	0.001803	0.126916	0.000624	0.012400	0.007137	0.001941	0.019405
12-Dec-2033	0.076741	12.777800	20.217700	2.968700	44.131273	1.726790	0.018691	0.181592	0.043951	0.003788	0.001809	0.127321	0.000626	0.012438	0.007160	0.001947	0.019465

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Dec-2033	0.076585	12.822200	20.288200	2.978880	44.284061	1.732850	0.018756	0.182228	0.044102	0.003801	0.001815	0.127748	0.000629	0.012481	0.007184	0.001953	0.019533
14-Dec-2033	0.076533	12.869900	20.364200	2.989800	44.448137	1.739390	0.018827	0.182914	0.044264	0.003815	0.001822	0.128202	0.000631	0.012527	0.007211	0.001961	0.019606
15-Dec-2033	0.076550	12.920400	20.444100	3.001570	44.622704	1.746200	0.018900	0.183630	0.044438	0.003830	0.001829	0.128710	0.000633	0.012576	0.007240	0.001968	0.019682
16-Dec-2033	0.076510	12.967000	20.517800	3.012370	44.783539	1.752500	0.018969	0.184292	0.044598	0.003844	0.001836	0.129172	0.000636	0.012622	0.007266	0.001975	0.019753
17-Dec-2033	0.076477	13.010700	20.587800	3.022300	44.933549	1.758540	0.019034	0.184926	0.044747	0.003856	0.001841	0.129576	0.000638	0.012664	0.007290	0.001982	0.019820
18-Dec-2033	0.076407	13.056400	20.659900	3.032950	45.091519	1.764690	0.019100	0.185573	0.044904	0.003870	0.001848	0.130037	0.000640	0.012708	0.007316	0.001989	0.019890
19-Dec-2033	0.076340	13.096600	20.723300	3.042340	45.230566	1.770080	0.019159	0.186141	0.045043	0.003882	0.001854	0.130444	0.000642	0.012748	0.007338	0.001995	0.019951
20-Dec-2033	0.076320	13.138600	20.789700	3.052140	45.375797	1.775750	0.019220	0.186737	0.045188	0.003894	0.001860	0.130869	0.000644	0.012789	0.007362	0.002002	0.020015
21-Dec-2033	0.076325	13.188100	20.867900	3.063660	45.546838	1.782420	0.019292	0.187438	0.045358	0.003909	0.001867	0.131364	0.000646	0.012837	0.007390	0.002009	0.020090
22-Dec-2033	0.076301	13.237100	20.945300	3.075060	45.716136	1.789030	0.019364	0.188133	0.045527	0.003924	0.001874	0.131855	0.000649	0.012885	0.007417	0.002016	0.020165
23-Dec-2033	0.076306	13.285700	21.022300	3.086370	45.884065	1.795610	0.019435	0.188825	0.045694	0.003938	0.001881	0.132372	0.000651	0.012932	0.007444	0.002024	0.020239
24-Dec-2033	0.076333	13.335200	21.100600	3.097880	46.055064	1.802290	0.019507	0.189528	0.045864	0.003953	0.001888	0.132834	0.000654	0.012980	0.007472	0.002031	0.020314
25-Dec-2033	0.076332	13.385700	21.180400	3.109640	46.229590	1.809100	0.019581	0.190245	0.046038	0.003968	0.001895	0.133341	0.000656	0.013029	0.007500	0.002039	0.020391
26-Dec-2033	0.076270	13.449800	21.280200	3.125010	46.452942	1.817490	0.019673	0.191131	0.046263	0.003987	0.001904	0.134042	0.000659	0.013093	0.007536	0.002049	0.020488
27-Dec-2033	0.076199	13.495800	21.353400	3.135600	46.611413	1.823770	0.019741	0.191791	0.046420	0.004001	0.001911	0.134488	0.000662	0.013137	0.007562	0.002056	0.020559
28-Dec-2033	0.076168	13.553500	21.444900	3.148930	46.810383	1.831600	0.019825	0.192614	0.046618	0.004018	0.001919	0.135054	0.000664	0.013193	0.007594	0.002065	0.020647
29-Dec-2033	0.076117	13.626700	21.560300	3.166070	47.063746	1.841420	0.019932	0.193648	0.046871	0.004040	0.001929	0.135800	0.000668	0.013265	0.007635	0.002076	0.020758
30-Dec-2033	0.076028	13.675900	21.638500	3.177440	47.233420	1.848120	0.020004	0.194352	0.047039	0.004054	0.001936	0.136281	0.000670	0.013313	0.007663	0.002083	0.020833
31-Dec-2033	0.075945	13.727700	21.720600	3.189410	47.412057	1.855160	0.020080	0.195091	0.047217	0.004069	0.001944	0.136790	0.000673	0.013363	0.007692	0.002091	0.020912
1-Jan-2034	0.075865	13.809600	21.849700	3.208590	47.695545	1.866130	0.020199	0.196247	0.047500	0.004094	0.001955	0.137626	0.000677	0.013443	0.007738	0.002104	0.021037

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Sep-2021	12.000000	3.515000	3.600000	1.900000	16.601155	0.005000	0.001000	0.005000	0.014000	0.000240	0.001500	0.032000	0.000015	0.003500	0.001100	0.000250	0.002500
16-Sep-2021	11.141218	3.516440	3.601480	1.900780	16.607963	0.005002	0.001000	0.005002	0.014006	0.000240	0.001501	0.032013	0.000015	0.003501	0.001100	0.000250	0.002501
17-Sep-2021	10.811633	3.517650	3.602710	1.901430	16.613661	0.005004	0.001001	0.005004	0.014011	0.000240	0.001501	0.032024	0.000015	0.003503	0.001101	0.000250	0.002502
18-Sep-2021	10.328745	3.518260	3.603340	1.901760	16.616543	0.005005	0.001001	0.005005	0.014013	0.000240	0.001501	0.032030	0.000015	0.003503	0.001101	0.000250	0.002502
19-Sep-2021	10.061499	3.519630	3.604740	1.902500	16.623011	0.005007	0.001001	0.005007	0.014018	0.000240	0.001502	0.032042	0.000015	0.003505	0.001101	0.000250	0.002503
20-Sep-2021	9.706543	3.519960	3.605080	1.902680	16.624576	0.005007	0.001001	0.005007	0.014020	0.000240	0.001502	0.032045	0.000015	0.003505	0.001102	0.000250	0.002504
21-Sep-2021	9.137125	3.520400	3.605530	1.902920	16.626663	0.005008	0.001002	0.005008	0.014022	0.000240	0.001502	0.032049	0.000015	0.003505	0.001102	0.000250	0.002504
22-Sep-2021	8.879507	3.522490	3.607670	1.904050	16.636535	0.005011	0.001002	0.005011	0.014030	0.000241	0.001503	0.032068	0.000015	0.003507	0.001102	0.000251	0.002505
23-Sep-2021	8.563063	3.525400	3.610650	1.905620	16.650267	0.005015	0.001003	0.005015	0.014041	0.000241	0.001504	0.032095	0.000015	0.003510	0.001103	0.000251	0.002507
24-Sep-2021	8.525608	3.525100	3.610340	1.905460	16.648859	0.005014	0.001003	0.005014	0.014040	0.000241	0.001504	0.032092	0.000015	0.003510	0.001103	0.000251	0.002507
25-Sep-2021	7.813356	3.526680	3.611960	1.906310	16.656305	0.005017	0.001003	0.005017	0.014047	0.000241	0.001505	0.032106	0.000015	0.003512	0.001104	0.000251	0.002508
26-Sep-2021	6.702785	3.530240	3.615610	1.908240	16.673142	0.005022	0.001004	0.005022	0.014061	0.000241	0.001507	0.032139	0.000015	0.003515	0.001105	0.000251	0.002511
27-Sep-2021	5.998792	3.528820	3.614150	1.907470	16.666425	0.005020	0.001004	0.005020	0.014055	0.000241	0.001506	0.032126	0.000015	0.003514	0.001104	0.000251	0.002510
28-Sep-2021	5.218211	3.529630	3.614980	1.907910	16.670259	0.005021	0.001004	0.005021	0.014058	0.000241	0.001506	0.032133	0.000015	0.003515	0.001105	0.000251	0.002510
29-Sep-2021	5.076519	3.532610	3.618030	1.909520	16.684331	0.005025	0.001005	0.005025	0.014070	0.000241	0.001508	0.032160	0.000015	0.003518	0.001106	0.000251	0.002513
30-Sep-2021	5.044613	3.534700	3.620180	1.910650	16.694203	0.005028	0.001006	0.005028	0.014079	0.000241	0.001508	0.032179	0.000015	0.003520	0.001106	0.000251	0.002514
1-Oct-2021	4.801371	3.534780	3.620260	1.910690	16.694567	0.005028	0.001006	0.005028	0.014079	0.000241	0.001508	0.032180	0.000015	0.003520	0.001106	0.000251	0.002514
2-Oct-2021	4.588440	3.531460	3.616850	1.908900	16.678906	0.005023	0.001005	0.005023	0.014066	0.000241	0.001507	0.032150	0.000015	0.003516	0.001105	0.000251	0.002512
3-Oct-2021	4.482061	3.531250	3.616640	1.908780	16.677887	0.005023	0.001005	0.005023	0.014065	0.000241	0.001507	0.032148	0.000015	0.003516	0.001105	0.000251	0.002512
4-Oct-2021	4.512407	3.532020	3.617430	1.909200	16.681540	0.005024	0.001005	0.005024	0.014068	0.000241	0.001507	0.032155	0.000015	0.003517	0.001105	0.000251	0.002512
5-Oct-2021	3.814172	3.533430	3.618880	1.909960	16.688190	0.005026	0.001005	0.005026	0.014073	0.000241	0.001508	0.032168	0.000015	0.003518	0.001106	0.000251	0.002513
6-Oct-2021	3.052520	3.532680	3.618110	1.909560	16.684670	0.005025	0.001005	0.005025	0.014070	0.000241	0.001508	0.032161	0.000015	0.003518	0.001106	0.000251	0.002513
7-Oct-2021	2.789861	3.531390	3.616790	1.908860	16.678566	0.005023	0.001005	0.005023	0.014065	0.000241	0.001507	0.032149	0.000015	0.003516	0.001105	0.000251	0.002512
8-Oct-2021	2.280977	3.531240	3.616630	1.908780	16.677862	0.005023	0.001005	0.005023	0.014065	0.000241	0.001507	0.032148	0.000015	0.003516	0.001105	0.000251	0.002512
9-Oct-2021	1.195866	3.533200	3.618640	1.909840	16.687122	0.005026	0.001005	0.005026	0.014073	0.000241	0.001508	0.032166	0.000015	0.003518	0.001106	0.000251	0.002513
10-Oct-2021	0.124302	3.531370	3.616770	1.908850	16.678475	0.005023	0.001005	0.005023	0.014065	0.000241	0.001507	0.032149	0.000015	0.003516	0.001105	0.000251	0.002512
11-Oct-2021	0.168551	3.528820	3.614150	1.907470	16.666425	0.005020	0.001004	0.005020	0.014055	0.000241	0.001506	0.032126	0.000015	0.003514	0.001104	0.000251	0.002510
12-Oct-2021	0.205288	3.528080	3.613400	1.907070	16.662930	0.005019	0.001004	0.005019	0.014052	0.000241	0.001506	0.032119	0.000015	0.003513	0.001104	0.000251	0.002509
13-Oct-2021	0.354078	3.529000	3.614340	1.907570	16.667286	0.005020	0.001004	0.005020	0.014056	0.000241	0.001506	0.032128	0.000015	0.003514	0.001104	0.000251	0.002510
14-Oct-2021	0.065036	3.527770	3.613080	1.906900	16.661456	0.005018	0.001004	0.005018	0.014051	0.000241	0.001505	0.032116	0.000015	0.003513	0.001104	0.000251	0.002509
15-Oct-2021	0.076869	3.528360	3.613680	1.907220	16.664247	0.005019	0.001004	0.005019	0.014053	0.000241	0.001506	0.032122	0.000015	0.003513	0.001104	0.000251	0.002510
16-Oct-2021	0.070868	3.529720	3.615070	1.907950	16.670649	0.005021	0.001004	0.005021	0.014059	0.000241	0.001506	0.032134	0.000015	0.003515	0.001105	0.000251	0.002510
17-Oct-2021	0.069741	3.572050	3.658430	1.930840	16.870608	0.005081	0.001016	0.005081	0.014227	0.000244	0.001524	0.032519	0.000015	0.003557	0.001118	0.000254	0.002541
18-Oct-2021	0.072796	3.610650	3.697970	1.951700	17.052894	0.005136	0.001027	0.005136	0.014381	0.000247	0.001541	0.032871	0.000015	0.003595	0.001130	0.000257	0.002568
19-Oct-2021	0.074891	3.645940	3.734110	1.970780	17.219584	0.005186	0.001037	0.005186	0.014522	0.000249	0.001556	0.033192	0.000016	0.003630	0.001141	0.000259	0.002593
20-Oct-2021	0.074119	3.675800	3.764690	1.986920	17.360609	0.005229	0.001046	0.005229	0.014640	0.000251	0.001569	0.033464	0.000016	0.003660	0.001150	0.000261	0.002614
21-Oct-2021	0.070873	3.698400	3.787840	1.999140	17.467363	0.005261	0.001052	0.005261	0.014731	0.000253	0.001578	0.033670	0.000016	0.003683	0.001157	0.000263	0.002630
22-Oct-2021	0.068046	3.729840	3.820030	2.016130	17.615834	0.005306	0.001061	0.005306	0.014856	0.000255	0.001592	0.033956	0.000016	0.003714	0.001167	0.000265	0.002653
23-Oct-2021	0.066224	3.773920	3.865180	2.039960	17.824034	0.005368	0.001074	0.005368	0.015031	0.000258	0.001610	0.034357	0.000016	0.003758	0.001181	0.000268	0.002684
24-Oct-2021	0.065242	3.811170	3.903330	2.060090	17.999942	0.005421	0.001084	0.005421	0.015180	0.000260	0.001626	0.034696	0.000016	0.003795	0.001193	0.000271	0.002711
25-Oct-2021	0.062706	3.850230	3.943340	2.081210	18.184447	0.005477	0.001095	0.005477	0.015335	0.000263	0.001643	0.035052	0.000016	0.003834	0.001205	0.000274	0.002738
26-Oct-2021	0.061407	3.885470	3.979430	2.100250	18.350848	0.005527	0.001105	0.005527	0.015476	0.000265	0.001658	0.035373	0.000017	0.003869	0.001216	0.000276	0.002763
27-Oct-2021	0.060691	3.926210	4.021150	2.122270	18.543254	0.005585	0.001117	0.005585	0.015638	0.000268	0.001675	0.035744	0.000017	0.003909	0.001229	0.000279	0.002792
28-Oct-2021	0.059953	3.970620	4.066640	2.146280	18.753019	0.005648	0.001130	0.005648	0.015815	0.000271	0.001694	0.036148	0.000017	0.003954	0.001243	0.000282	0.002824
29-Oct-2021	0.059489	4.015870	4.112980	2.170740	18.966735	0.005712	0.001142	0.005712	0.015995	0.000274	0.001714	0.036560	0.000017	0.003999	0.001257	0.000286	0.002856
30-Oct-2021	0.059320	4.052730	4.150730	2.190670	19.140846	0.005765	0.001153	0.005765	0.016142	0.000277	0.001729	0.036895	0.000017	0.004035	0.001268	0.000288	0.002882
31-Oct-2021	0.059173	4.072890	4.171380	2.201560	19.236030	0.005794	0.001159	0.005794	0.016222	0.000278	0.001738	0.037079	0.000017	0.004056	0.001275	0.000290	0.002897
1-Nov-2021	0.059097	4.126270	4.226050	2.230410	19.488125	0.005870	0.001174	0.005870	0.016435	0.000282	0.001761	0.037565	0.000018	0.004109	0.001291	0.000293	0.002935
2-Nov-2021	0.059068	4.180900	4.282010	2.259950	19.746181	0.005947	0.001189	0.005947	0.016652	0.000285	0.001784	0.038062	0.000018	0.004163	0.001308	0.000297	0.002974
3-Nov-2021	0.059125	4.223640	4.325780	2.283050	19.948029	0.006008	0.001202	0.006008	0.016823	0.000288	0.001802	0.038451	0.000018	0.004206	0.001322	0.000300	0.003004
4-Nov-2021	0.059008	4.255930	4.358850	2.300500	20.100516	0.006054	0.001211	0.006054	0.016951	0.000291	0.001816	0.038745	0.000018	0.004238	0.001332	0.000303	0.003027
5-Nov-2021	0.058963	4.252510	4.355340	2.298650	20.084358	0.006049	0.001210	0.006049	0.016937	0.000290	0.001815	0.038714	0.000018	0.004234	0.001331	0.000302	0.003025

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Nov-2021	0.058889	4.280870	4.384390	2.313990	20.218343	0.006089	0.001218	0.006089	0.017050	0.000292	0.001827	0.038972	0.000018	0.004263	0.001340	0.000304	0.003045
7-Nov-2021	0.058905	4.317980	4.422390	2.334040	20.393573	0.006142	0.001228	0.006142	0.017198	0.000295	0.001843	0.039310	0.000018	0.004300	0.001351	0.000307	0.003071
8-Nov-2021	0.058901	4.361910	4.467390	2.357790	20.601068	0.006205	0.001241	0.006205	0.017373	0.000298	0.001861	0.039710	0.000019	0.004343	0.001365	0.000310	0.003102
9-Nov-2021	0.058861	4.402740	4.509210	2.379860	20.793905	0.006263	0.001253	0.006263	0.017536	0.000301	0.001879	0.040082	0.000019	0.004384	0.001378	0.000313	0.003131
10-Nov-2021	0.058809	4.444940	4.552420	2.402670	20.993210	0.006323	0.001265	0.006323	0.017704	0.000303	0.001897	0.040466	0.000019	0.004426	0.001391	0.000316	0.003161
11-Nov-2021	0.058850	4.488460	4.597000	2.426190	21.198735	0.006385	0.001277	0.006385	0.017877	0.000306	0.001915	0.040862	0.000019	0.004469	0.001405	0.000319	0.003192
12-Nov-2021	0.058826	4.530330	4.639890	2.448830	21.396516	0.006444	0.001289	0.006444	0.018044	0.000309	0.001933	0.041243	0.000019	0.004511	0.001418	0.000322	0.003222
13-Nov-2021	0.058748	4.571550	4.682100	2.471110	21.591191	0.006503	0.001301	0.006503	0.018208	0.000312	0.001951	0.041619	0.000020	0.004552	0.001431	0.000325	0.003251
14-Nov-2021	0.058725	4.584140	4.694990	2.477910	21.650631	0.006521	0.001304	0.006521	0.018258	0.000313	0.001956	0.041733	0.000020	0.004565	0.001435	0.000326	0.003260
15-Nov-2021	0.058755	4.621830	4.733590	2.498280	21.828627	0.006574	0.001315	0.006574	0.018408	0.000316	0.001972	0.042076	0.000020	0.004602	0.001446	0.000329	0.003287
16-Nov-2021	0.058738	4.662380	4.775130	2.520210	22.020188	0.006632	0.001326	0.006632	0.018570	0.000318	0.001990	0.042446	0.000020	0.004642	0.001459	0.000332	0.003316
17-Nov-2021	0.058651	4.695920	4.809470	2.538330	22.178555	0.006680	0.001336	0.006680	0.018704	0.000321	0.002004	0.042751	0.000020	0.004676	0.001470	0.000334	0.003340
18-Nov-2021	0.058404	4.733810	4.848290	2.558820	22.357544	0.006734	0.001347	0.006734	0.018855	0.000323	0.002020	0.043096	0.000020	0.004714	0.001481	0.000337	0.003367
19-Nov-2021	0.058301	4.778800	4.894360	2.583130	22.569993	0.006798	0.001360	0.006798	0.019034	0.000326	0.002039	0.043505	0.000020	0.004758	0.001496	0.000340	0.003399
20-Nov-2021	0.058398	4.832350	4.949210	2.612080	22.822923	0.006874	0.001375	0.006874	0.019247	0.000330	0.002062	0.043993	0.000021	0.004812	0.001512	0.000344	0.003437
21-Nov-2021	0.058270	4.870760	4.988540	2.632840	23.004323	0.006929	0.001386	0.006929	0.019400	0.000333	0.002079	0.044343	0.000021	0.004850	0.001524	0.000346	0.003464
22-Nov-2021	0.058406	4.889310	5.007540	2.642870	23.091946	0.006955	0.001391	0.006955	0.019474	0.000334	0.002086	0.044512	0.000021	0.004868	0.001530	0.000348	0.003477
23-Nov-2021	0.058539	4.905480	5.024110	2.651610	23.168314	0.006978	0.001396	0.006978	0.019538	0.000335	0.002093	0.044659	0.000021	0.004885	0.001535	0.000349	0.003489
24-Nov-2021	0.065777	4.454590	4.562310	2.407890	21.038802	0.006337	0.001267	0.006337	0.017742	0.000304	0.001901	0.040554	0.000019	0.004436	0.001394	0.000317	0.003168
25-Nov-2021	0.065337	4.487460	4.595980	2.425660	21.194056	0.006383	0.001277	0.006383	0.017873	0.000306	0.001915	0.040853	0.000019	0.004468	0.001404	0.000319	0.003192
26-Nov-2021	0.064973	4.519100	4.628380	2.442750	21.343437	0.006428	0.001286	0.006428	0.017999	0.000309	0.001928	0.041141	0.000019	0.004500	0.001414	0.000321	0.003214
27-Nov-2021	0.064668	4.547030	4.656990	2.457860	21.475401	0.006468	0.001294	0.006468	0.018111	0.000310	0.001940	0.041396	0.000019	0.004528	0.001423	0.000323	0.003234
28-Nov-2021	0.064427	4.572650	4.683220	2.471700	21.596368	0.006504	0.001301	0.006504	0.018213	0.000312	0.001951	0.041629	0.000020	0.004553	0.001431	0.000325	0.003252
29-Nov-2021	0.064326	4.595030	4.706140	2.483800	21.702078	0.006536	0.001307	0.006536	0.018302	0.000314	0.001961	0.041832	0.000020	0.004575	0.001438	0.000327	0.003268
30-Nov-2021	0.064231	4.616260	4.727890	2.495280	21.802364	0.006567	0.001313	0.006567	0.018386	0.000315	0.001970	0.042026	0.000020	0.004597	0.001445	0.000328	0.003283
1-Dec-2021	0.063966	4.639970	4.752170	2.508090	21.914320	0.006600	0.001320	0.006600	0.018481	0.000317	0.001980	0.042242	0.000020	0.004620	0.001452	0.000330	0.003300
2-Dec-2021	0.063649	4.666340	4.779180	2.522340	22.038847	0.006638	0.001328	0.006638	0.018586	0.000319	0.001991	0.042482	0.000020	0.004646	0.001460	0.000332	0.003319
3-Dec-2021	0.063380	4.690090	4.803510	2.535180	22.151026	0.006672	0.001334	0.006672	0.018680	0.000320	0.002001	0.042698	0.000020	0.004670	0.001468	0.000334	0.003336
4-Dec-2021	0.063378	4.708790	4.822660	2.545290	22.239353	0.006698	0.001340	0.006698	0.018755	0.000322	0.002009	0.042868	0.000020	0.004689	0.001474	0.000335	0.003349
5-Dec-2021	0.063423	4.728650	4.843000	2.556030	22.333171	0.006726	0.001345	0.006726	0.018834	0.000323	0.002018	0.043049	0.000020	0.004708	0.001480	0.000336	0.003363
6-Dec-2021	0.063498	4.752660	4.867590	2.569010	22.446575	0.006761	0.001352	0.006761	0.018930	0.000325	0.002028	0.043268	0.000020	0.004732	0.001487	0.000338	0.003380
7-Dec-2021	0.063603	4.761930	4.877080	2.574010	22.490312	0.006774	0.001355	0.006774	0.018966	0.000325	0.002032	0.043352	0.000020	0.004742	0.001490	0.000339	0.003387
8-Dec-2021	0.063544	4.788030	4.903820	2.588130	22.613630	0.006811	0.001362	0.006811	0.019070	0.000327	0.002043	0.043590	0.000020	0.004768	0.001498	0.000341	0.003405
9-Dec-2021	0.063559	4.813840	4.930250	2.602080	22.735524	0.006848	0.001370	0.006848	0.019173	0.000329	0.002054	0.043825	0.000021	0.004793	0.001506	0.000342	0.003424
10-Dec-2021	0.063587	4.792570	4.908460	2.590580	22.635056	0.006817	0.001363	0.006817	0.019089	0.000327	0.002045	0.043631	0.000020	0.004772	0.001500	0.000341	0.003409
11-Dec-2021	0.063600	4.812110	4.928480	2.601140	22.727333	0.006845	0.001369	0.006845	0.019166	0.000329	0.002054	0.043809	0.000021	0.004792	0.001506	0.000342	0.003423
12-Dec-2021	0.063651	4.823750	4.940390	2.607430	22.782300	0.006862	0.001372	0.006862	0.019213	0.000329	0.002059	0.043915	0.000021	0.004803	0.001510	0.000343	0.003431
13-Dec-2021	0.063819	4.827760	4.944510	2.609600	22.801250	0.006867	0.001373	0.006867	0.019229	0.000330	0.002060	0.043951	0.000021	0.004807	0.001511	0.000343	0.003434
14-Dec-2021	0.064094	4.825730	4.942430	2.608500	22.791651	0.006864	0.001373	0.006864	0.019221	0.000329	0.002059	0.043933	0.000021	0.004805	0.001510	0.000343	0.003432
15-Dec-2021	0.064380	4.823680	4.940330	2.607400	22.782002	0.006862	0.001372	0.006862	0.019212	0.000329	0.002058	0.043914	0.000021	0.004803	0.001510	0.000343	0.003431
16-Dec-2021	0.064812	4.823930	4.940590	2.607530	22.783162	0.006862	0.001372	0.006862	0.019213	0.000329	0.002059	0.043916	0.000021	0.004803	0.001510	0.000343	0.003431
17-Dec-2021	0.065047	4.829740	4.946540	2.610670	22.810600	0.006870	0.001374	0.006870	0.019237	0.000330	0.002061	0.043969	0.000021	0.004809	0.001511	0.000344	0.003435
18-Dec-2021	0.065159	4.836140	4.953090	2.614130	22.840829	0.006879	0.001376	0.006879	0.019262	0.000330	0.002064	0.044028	0.000021	0.004816	0.001513	0.000344	0.003440
19-Dec-2021	0.065223	4.841080	4.958150	2.616800	22.864159	0.006886	0.001377	0.006886	0.019282	0.000331	0.002066	0.044072	0.000021	0.004820	0.001515	0.000344	0.003443
20-Dec-2021	0.065329	4.845320	4.962490	2.619090	22.884177	0.006892	0.001378	0.006892	0.019299	0.000331	0.002068	0.044111	0.000021	0.004825	0.001516	0.000345	0.003446
21-Dec-2021	0.065376	4.853680	4.971060	2.623610	22.923665	0.006904	0.001381	0.006904	0.019332	0.000331	0.002071	0.044187	0.000021	0.004833	0.001519	0.000345	0.003452
22-Dec-2021	0.065464	4.865340	4.982990	2.629910	22.978723	0.006921	0.001384	0.006921	0.019378	0.000332	0.002076	0.044293	0.000021	0.004845	0.001523	0.000346	0.003460
23-Dec-2021	0.065581	4.856620	4.974060	2.625200	22.937554	0.006908	0.001382	0.006908	0.019344	0.000332	0.002073	0.044214	0.000021	0.004836	0.001520	0.000345	0.003454
24-Dec-2021	0.065683	4.856540	4.973980	2.625160	22.937189	0.006908	0.001382	0.006908	0.019343	0.000332	0.002072	0.044213	0.000021	0.004836	0.001520	0.000345	0.003454
25-Dec-2021	0.065711	4.880350	4.998370	2.638030	23.049641	0.006942	0.001388	0.006942	0.019438	0.000333	0.002083	0.044430	0.000021	0.004860	0.001527	0.000347	0.003471
26-Dec-2021	0.065677	4.909590	5.028320	2.653830	23.187718	0.006984	0.001397	0.006984	0.019555	0.000335	0.002095	0.044696	0.000021	0.004889	0.001536	0.000349	0.003492
27-Dec-2021	0.065575	4.929740	5.048950	2.664720	23.282878	0.007012	0.001402	0.007012	0.019635	0.000337	0.002104	0.044880	0.000021	0.004909	0.001543	0.000351	0.003506

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Dec-2021	0.065458	4.950200	5.069910	2.675780	23.379511	0.007042	0.001408	0.007042	0.019716	0.000338	0.002112	0.045066	0.000021	0.004929	0.001549	0.000352	0.003521
29-Dec-2021	0.065397	4.971410	5.091630	2.687250	23.479706	0.007072	0.001414	0.007072	0.019801	0.000339	0.002122	0.045259	0.000021	0.004950	0.001556	0.000354	0.003536
30-Dec-2021	0.065413	4.984590	5.105130	2.694380	23.541978	0.007090	0.001418	0.007090	0.019853	0.000340	0.002127	0.045379	0.000021	0.004963	0.001560	0.000355	0.003545
31-Dec-2021	0.065407	5.006860	5.127940	2.706410	23.647126	0.007122	0.001424	0.007122	0.019942	0.000342	0.002137	0.045582	0.000021	0.004986	0.001567	0.000356	0.003561
1-Jan-2022	0.065372	5.032860	5.154560	2.720460	23.769906	0.007159	0.001432	0.007159	0.020046	0.000344	0.002148	0.045818	0.000021	0.005011	0.001575	0.000358	0.003580
2-Jan-2022	0.065350	5.057790	5.180100	2.733940	23.887667	0.007195	0.001439	0.007195	0.020145	0.000345	0.002158	0.046045	0.000022	0.005036	0.001583	0.000360	0.003597
3-Jan-2022	0.065333	5.081840	5.204730	2.746940	24.001253	0.007229	0.001446	0.007229	0.020241	0.000347	0.002169	0.046264	0.000022	0.005060	0.001590	0.000361	0.003614
4-Jan-2022	0.065318	5.102970	5.226370	2.758360	24.101043	0.007259	0.001452	0.007259	0.020325	0.000348	0.002178	0.046457	0.000022	0.005081	0.001597	0.000363	0.003629
5-Jan-2022	0.065310	5.121870	5.245730	2.768580	24.190322	0.007286	0.001457	0.007286	0.020400	0.000350	0.002186	0.046629	0.000022	0.005100	0.001603	0.000364	0.003643
6-Jan-2022	0.065296	5.140030	5.264330	2.778390	24.276065	0.007312	0.001462	0.007312	0.020472	0.000351	0.002193	0.046794	0.000022	0.005118	0.001609	0.000366	0.003656
7-Jan-2022	0.065263	5.169270	5.294270	2.794200	24.414183	0.007353	0.001471	0.007353	0.020589	0.000353	0.002206	0.047060	0.000022	0.005147	0.001618	0.000368	0.003677
8-Jan-2022	0.065238	5.196990	5.322670	2.809190	24.545128	0.007393	0.001479	0.007393	0.020699	0.000355	0.002218	0.047313	0.000022	0.005175	0.001626	0.000370	0.003696
9-Jan-2022	0.065234	5.224100	5.350430	2.823840	24.673151	0.007431	0.001486	0.007431	0.020807	0.000357	0.002229	0.047559	0.000022	0.005202	0.001635	0.000372	0.003716
10-Jan-2022	0.065237	5.253970	5.381020	2.839980	24.814201	0.007474	0.001495	0.007474	0.020926	0.000359	0.002242	0.047831	0.000022	0.005232	0.001644	0.000374	0.003737
11-Jan-2022	0.065210	5.289340	5.417250	2.859100	24.981256	0.007524	0.001505	0.007524	0.021067	0.000361	0.002257	0.048153	0.000023	0.005267	0.001655	0.000376	0.003762
12-Jan-2022	0.065174	5.331510	5.460430	2.881890	25.180403	0.007584	0.001517	0.007584	0.021235	0.000364	0.002275	0.048537	0.000023	0.005309	0.001668	0.000379	0.003792
13-Jan-2022	0.065101	5.380080	5.510180	2.908150	25.409821	0.007653	0.001531	0.007653	0.021429	0.000367	0.002296	0.048979	0.000023	0.005357	0.001684	0.000383	0.003827
14-Jan-2022	0.065030	5.426380	5.557600	2.933180	25.628506	0.007719	0.001544	0.007719	0.021613	0.000371	0.002316	0.049401	0.000023	0.005403	0.001698	0.000386	0.003859
15-Jan-2022	0.064984	5.454120	5.586010	2.948170	25.759502	0.007758	0.001552	0.007758	0.021723	0.000372	0.002328	0.049653	0.000023	0.005431	0.001707	0.000388	0.003879
16-Jan-2022	0.064967	5.467230	5.599440	2.955260	25.821434	0.007777	0.001555	0.007777	0.021776	0.000373	0.002333	0.049773	0.000023	0.005444	0.001711	0.000389	0.003889
17-Jan-2022	0.064954	5.483060	5.615650	2.963810	25.896170	0.007800	0.001560	0.007800	0.021839	0.000374	0.002340	0.049917	0.000023	0.005460	0.001716	0.000390	0.003900
18-Jan-2022	0.064932	5.510090	5.643340	2.978430	26.023869	0.007838	0.001568	0.007838	0.021946	0.000376	0.002351	0.050163	0.000024	0.005487	0.001724	0.000392	0.003919
19-Jan-2022	0.064903	5.545430	5.679530	2.997530	26.190767	0.007888	0.001578	0.007888	0.022087	0.000379	0.002366	0.050485	0.000024	0.005522	0.001735	0.000394	0.003944
20-Jan-2022	0.064870	5.584600	5.719650	3.018700	26.375753	0.007944	0.001589	0.007944	0.022243	0.000381	0.002383	0.050841	0.000024	0.005561	0.001748	0.000397	0.003972
21-Jan-2022	0.064825	5.629350	5.765480	3.042890	26.587108	0.008008	0.001602	0.008008	0.022421	0.000384	0.002402	0.051249	0.000024	0.005605	0.001762	0.000400	0.004004
22-Jan-2022	0.064772	5.679640	5.816990	3.070080	26.824651	0.008079	0.001616	0.008079	0.022622	0.000388	0.002424	0.051707	0.000024	0.005655	0.001777	0.000404	0.004040
23-Jan-2022	0.064726	5.730450	5.869020	3.097540	27.064603	0.008151	0.001630	0.008151	0.022824	0.000391	0.002445	0.052169	0.000024	0.005706	0.001793	0.000408	0.004076
24-Jan-2022	0.064694	5.778830	5.918570	3.123690	27.293094	0.008220	0.001644	0.008220	0.023017	0.000395	0.002466	0.052610	0.000025	0.005754	0.001808	0.000411	0.004110
25-Jan-2022	0.064656	5.824590	5.965440	3.148430	27.509236	0.008285	0.001657	0.008285	0.023199	0.000398	0.002486	0.053026	0.000025	0.005800	0.001823	0.000414	0.004143
26-Jan-2022	0.064603	5.867640	6.009540	3.171700	27.712558	0.008347	0.001669	0.008347	0.023370	0.000401	0.002504	0.053418	0.000025	0.005843	0.001836	0.000417	0.004173
27-Jan-2022	0.064545	5.903670	6.046430	3.191170	27.882702	0.008398	0.001680	0.008398	0.023514	0.000403	0.002519	0.053746	0.000025	0.005878	0.001848	0.000420	0.004199
28-Jan-2022	0.064509	5.932910	6.076380	3.206980	28.020820	0.008439	0.001688	0.008439	0.023630	0.000405	0.002532	0.054012	0.000025	0.005908	0.001857	0.000422	0.004220
29-Jan-2022	0.064492	5.961290	6.105440	3.222320	28.154855	0.008480	0.001696	0.008480	0.023743	0.000407	0.002544	0.054271	0.000025	0.005936	0.001866	0.000424	0.004240
30-Jan-2022	0.064493	5.995580	6.140570	3.240850	28.316784	0.008529	0.001706	0.008529	0.023880	0.000409	0.002559	0.054583	0.000026	0.005970	0.001876	0.000426	0.004264
31-Jan-2022	0.064516	6.053890	6.200290	3.272380	28.592224	0.008612	0.001722	0.008612	0.024112	0.000413	0.002583	0.055114	0.000026	0.006028	0.001895	0.000431	0.004306
1-Feb-2022	0.064524	6.127170	6.275340	3.311980	28.938277	0.008716	0.001743	0.008716	0.024404	0.000418	0.002615	0.055781	0.000026	0.006101	0.001917	0.000436	0.004358
2-Feb-2022	0.064539	6.206060	6.356130	3.354620	29.310857	0.008828	0.001766	0.008828	0.024718	0.000424	0.002648	0.056499	0.000026	0.006180	0.001942	0.000441	0.004414
3-Feb-2022	0.064542	6.285850	6.437860	3.397760	29.687743	0.008941	0.001788	0.008941	0.025036	0.000429	0.002682	0.057225	0.000027	0.006259	0.001967	0.000447	0.004471
4-Feb-2022	0.064532	6.360000	6.513800	3.437840	30.037945	0.009047	0.001809	0.009047	0.025331	0.000434	0.002714	0.057900	0.000027	0.006333	0.001990	0.000452	0.004523
5-Feb-2022	0.064508	6.433030	6.588590	3.477310	30.382838	0.009151	0.001830	0.009151	0.025622	0.000439	0.002745	0.058565	0.000027	0.006406	0.002013	0.000458	0.004575
6-Feb-2022	0.064477	6.339410	6.492710	3.426710	29.940699	0.009018	0.001804	0.009018	0.025249	0.000433	0.002705	0.057713	0.000027	0.006312	0.001984	0.000451	0.004509
7-Feb-2022	0.064417	6.436850	6.592510	3.479380	30.400901	0.009156	0.001831	0.009156	0.025638	0.000440	0.002747	0.058600	0.000027	0.006409	0.002014	0.000458	0.004578
8-Feb-2022	0.064394	6.532310	6.690280	3.530980	30.851754	0.009292	0.001858	0.009292	0.026018	0.000446	0.002788	0.059469	0.000028	0.006504	0.002044	0.000465	0.004646
9-Feb-2022	0.064389	6.626170	6.786400	3.581710	31.295028	0.009426	0.001885	0.009426	0.026392	0.000452	0.002828	0.060324	0.000028	0.006598	0.002074	0.000471	0.004713
10-Feb-2022	0.064382	6.713020	6.875350	3.628660	31.705233	0.009549	0.001910	0.009549	0.026738	0.000458	0.002865	0.061114	0.000029	0.006684	0.002101	0.000477	0.004775
11-Feb-2022	0.064359	6.789590	6.953780	3.670050	32.066872	0.009658	0.001932	0.009658	0.027043	0.000464	0.002897	0.061811	0.000029	0.006761	0.002125	0.000483	0.004829
12-Feb-2022	0.064333	6.712510	6.874840	3.628390	31.702847	0.009548	0.001910	0.009548	0.026736	0.000458	0.002865	0.061110	0.000029	0.006684	0.002101	0.000477	0.004774
13-Feb-2022	0.064320	6.776340	6.940210	3.662890	32.004302	0.009639	0.001928	0.009639	0.026990	0.000463	0.002892	0.061691	0.000029	0.006747	0.002121	0.000482	0.004820
14-Feb-2022	0.064309	6.685950	6.847630	3.614030	31.577393	0.009511	0.001902	0.009511	0.026630	0.000457	0.002853	0.060868	0.000029	0.006657	0.002092	0.000476	0.004755
15-Feb-2022	0.064296	6.750350	6.913590	3.648840	31.881547	0.009602	0.001920	0.009602	0.026886	0.000461	0.002881	0.061454	0.000029	0.006722	0.002112	0.000480	0.004801
16-Feb-2022	0.064280	6.835800	7.001110	3.695030	32.285126	0.009724	0.001945	0.009724	0.027227	0.000467	0.002917	0.062232	0.000029	0.006807	0.002139	0.000486	0.004862
17-Feb-2022	0.064260	6.910320	7.077420	3.735310	32.637076	0.009830	0.001966	0.009830	0.027523	0.000472	0.002949	0.062910	0.000029	0.006881	0.002163	0.000491	0.004915

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Feb-2022	0.064237	6.976180	7.144880	3.770910	32.948129	0.009923	0.001985	0.009923	0.027786	0.000476	0.002977	0.063510	0.000030	0.006946	0.002183	0.000496	0.004962
19-Feb-2022	0.064208	7.034170	7.204270	3.802250	33.221988	0.010006	0.002001	0.010006	0.028017	0.000480	0.003002	0.064038	0.000030	0.007004	0.002201	0.000500	0.005003
20-Feb-2022	0.064175	7.086580	7.257950	3.830580	33.469519	0.010081	0.002016	0.010081	0.028225	0.000484	0.003024	0.064515	0.000030	0.007056	0.002218	0.000504	0.005040
21-Feb-2022	0.064129	7.109500	7.281420	3.842970	33.577772	0.010113	0.002023	0.010113	0.028317	0.000485	0.003034	0.064724	0.000030	0.007079	0.002225	0.000506	0.005057
22-Feb-2022	0.064080	7.134390	7.306920	3.856430	33.695351	0.010149	0.002030	0.010149	0.028416	0.000487	0.003045	0.064950	0.000030	0.007104	0.002233	0.000507	0.005074
23-Feb-2022	0.064094	7.173160	7.346620	3.877390	33.878473	0.010204	0.002041	0.010204	0.028570	0.000490	0.003061	0.065303	0.000031	0.007143	0.002245	0.000510	0.005102
24-Feb-2022	0.064098	7.213030	7.387460	3.898940	34.066771	0.010260	0.002052	0.010260	0.028729	0.000492	0.003078	0.065666	0.000031	0.007182	0.002257	0.000513	0.005130
25-Feb-2022	0.064089	7.253000	7.428400	3.920540	34.255525	0.010317	0.002063	0.010317	0.028888	0.000495	0.003095	0.066030	0.000031	0.007222	0.002270	0.000516	0.005159
26-Feb-2022	0.064094	7.298010	7.474490	3.944870	34.468106	0.010381	0.002076	0.010381	0.029067	0.000498	0.003114	0.066440	0.000031	0.007267	0.002284	0.000519	0.005191
27-Feb-2022	0.064050	6.352620	6.506240	3.433850	30.003086	0.009036	0.001807	0.009036	0.025302	0.000434	0.002711	0.057833	0.000027	0.006326	0.001988	0.000452	0.004518
28-Feb-2022	0.064023	6.399400	6.554150	3.459140	30.224040	0.009103	0.001821	0.009103	0.025488	0.000437	0.002731	0.058259	0.000027	0.006372	0.002003	0.000455	0.004551
1-Mar-2022	0.063998	6.446270	6.602150	3.484470	30.445384	0.009170	0.001834	0.009170	0.025675	0.000440	0.002751	0.058686	0.000028	0.006419	0.002017	0.000458	0.004585
2-Mar-2022	0.063977	6.487410	6.644290	3.506710	30.639695	0.009228	0.001846	0.009228	0.025839	0.000443	0.002768	0.059060	0.000028	0.006460	0.002030	0.000461	0.004614
3-Mar-2022	0.063955	6.532560	6.690530	3.531120	30.852954	0.009292	0.001858	0.009292	0.026019	0.000446	0.002788	0.059471	0.000028	0.006505	0.002044	0.000465	0.004646
4-Mar-2022	0.063937	6.580350	6.739470	3.556940	31.078613	0.009360	0.001872	0.009360	0.026209	0.000449	0.002808	0.059906	0.000028	0.006552	0.002059	0.000468	0.004680
5-Mar-2022	0.063936	6.630850	6.791190	3.584240	31.317133	0.009432	0.001886	0.009432	0.026410	0.000453	0.002830	0.060366	0.000028	0.006603	0.002075	0.000472	0.004716
6-Mar-2022	0.063938	6.686040	6.847720	3.614080	31.577823	0.009511	0.001902	0.009511	0.026630	0.000457	0.002853	0.060869	0.000029	0.006658	0.002092	0.000476	0.004755
7-Mar-2022	0.063933	6.740400	6.903400	3.643460	31.834547	0.009588	0.001918	0.009588	0.026847	0.000460	0.002876	0.061364	0.000029	0.006712	0.002109	0.000479	0.004794
8-Mar-2022	0.063925	6.793550	6.957830	3.672190	32.085573	0.009664	0.001933	0.009664	0.027058	0.000464	0.002899	0.061847	0.000029	0.006765	0.002126	0.000483	0.004832
9-Mar-2022	0.063915	6.847550	7.013140	3.701380	32.340615	0.009740	0.001948	0.009740	0.027273	0.000468	0.002922	0.062339	0.000029	0.006818	0.002143	0.000487	0.004870
10-Mar-2022	0.063904	6.902940	7.069870	3.731320	32.602217	0.009819	0.001964	0.009819	0.027494	0.000471	0.002946	0.062843	0.000029	0.006873	0.002160	0.000491	0.004910
11-Mar-2022	0.063893	6.961280	7.129620	3.762850	32.877732	0.009902	0.001980	0.009902	0.027726	0.000475	0.002971	0.063374	0.000030	0.006932	0.002178	0.000495	0.004951
12-Mar-2022	0.063883	7.021980	7.191790	3.795670	33.164453	0.009989	0.001998	0.009989	0.027968	0.000479	0.002997	0.063927	0.000030	0.006992	0.002197	0.000499	0.004994
13-Mar-2022	0.063873	7.084600	7.255920	3.829510	33.460168	0.010078	0.002016	0.010078	0.028218	0.000484	0.003023	0.064497	0.000030	0.007054	0.002217	0.000504	0.005039
14-Mar-2022	0.063863	7.148910	7.321780	3.864270	33.763892	0.010169	0.002034	0.010169	0.028474	0.000488	0.003051	0.065083	0.000031	0.007118	0.002237	0.000508	0.005085
15-Mar-2022	0.063855	7.215150	7.389630	3.900080	34.076759	0.010263	0.002053	0.010263	0.028737	0.000493	0.003079	0.065686	0.000031	0.007184	0.002258	0.000513	0.005132
16-Mar-2022	0.063847	7.283210	7.459330	3.936870	34.398206	0.010360	0.002072	0.010360	0.029009	0.000497	0.003108	0.066305	0.000031	0.007252	0.002279	0.000518	0.005180
17-Mar-2022	0.063841	7.353100	7.530920	3.974650	34.728299	0.010460	0.002092	0.010460	0.029287	0.000502	0.003138	0.066942	0.000031	0.007322	0.002301	0.000523	0.005230
18-Mar-2022	0.063836	7.424460	7.604000	4.013220	35.065317	0.010561	0.002112	0.010561	0.029571	0.000507	0.003168	0.067591	0.000032	0.007393	0.002323	0.000528	0.005281
19-Mar-2022	0.063832	7.497190	7.678490	4.052540	35.408843	0.010665	0.002133	0.010665	0.029861	0.000512	0.003199	0.068253	0.000032	0.007465	0.002346	0.000533	0.005332
20-Mar-2022	0.063827	7.570790	7.753860	4.092320	35.756436	0.010769	0.002154	0.010769	0.030154	0.000517	0.003231	0.068923	0.000032	0.007538	0.002369	0.000538	0.005385
21-Mar-2022	0.063821	7.645820	7.830720	4.132880	36.110812	0.010876	0.002175	0.010876	0.030453	0.000522	0.003263	0.069606	0.000033	0.007613	0.002393	0.000544	0.005438
22-Mar-2022	0.063813	7.724050	7.910830	4.175160	36.480262	0.010987	0.002197	0.010987	0.030764	0.000527	0.003296	0.070319	0.000033	0.007691	0.002417	0.000549	0.005494
23-Mar-2022	0.063805	7.793550	7.982010	4.212730	36.808516	0.011086	0.002217	0.011086	0.031041	0.000532	0.003326	0.070951	0.000033	0.007760	0.002439	0.000554	0.005543
24-Mar-2022	0.063794	7.865640	8.055840	4.251700	37.149004	0.011189	0.002238	0.011189	0.031328	0.000537	0.003357	0.071608	0.000034	0.007832	0.002462	0.000559	0.005594
25-Mar-2022	0.063783	7.942380	8.134450	4.293180	37.511438	0.011298	0.002260	0.011298	0.031634	0.000542	0.003389	0.072306	0.000034	0.007908	0.002486	0.000565	0.005649
26-Mar-2022	0.063775	8.056210	8.251020	4.354710	38.049052	0.011460	0.002292	0.011460	0.032087	0.000550	0.003438	0.073342	0.000034	0.008022	0.002521	0.000573	0.005730
27-Mar-2022	0.063765	8.121430	8.317820	4.389960	38.357066	0.011553	0.002311	0.011553	0.032347	0.000555	0.003466	0.073936	0.000035	0.008087	0.002542	0.000578	0.005776
28-Mar-2022	0.063755	8.205880	8.404320	4.435610	38.755924	0.011673	0.002335	0.011673	0.032684	0.000560	0.003502	0.074705	0.000035	0.008171	0.002568	0.000584	0.005836
29-Mar-2022	0.063746	8.295490	8.496100	4.484050	39.179156	0.011800	0.002360	0.011800	0.033040	0.000566	0.003540	0.075521	0.000035	0.008260	0.002596	0.000590	0.005900
30-Mar-2022	0.063737	8.388070	8.590910	4.534090	39.616393	0.011932	0.002386	0.011932	0.033409	0.000573	0.003580	0.076364	0.000036	0.008352	0.002625	0.000597	0.005966
31-Mar-2022	0.063724	8.497160	8.702640	4.593060	40.131630	0.012087	0.002417	0.012087	0.033844	0.000580	0.003626	0.077357	0.000036	0.008461	0.002659	0.000604	0.006044
1-Apr-2022	0.063711	8.587470	8.795130	4.641870	40.558133	0.012216	0.002443	0.012216	0.034203	0.000586	0.003665	0.078179	0.000037	0.008551	0.002687	0.000611	0.006108
2-Apr-2022	0.063681	8.661130	8.870570	4.681690	40.906041	0.012320	0.002464	0.012320	0.034497	0.000591	0.003696	0.078850	0.000037	0.008624	0.002710	0.000616	0.006160
3-Apr-2022	0.063667	8.706510	8.917050	4.706220	41.120369	0.012385	0.002477	0.012385	0.034677	0.000594	0.003715	0.079263	0.000037	0.008669	0.002725	0.000619	0.006192
4-Apr-2022	0.063656	8.734020	8.945230	4.721090	41.250297	0.012424	0.002485	0.012424	0.034787	0.000596	0.003727	0.079513	0.000037	0.008697	0.002733	0.000621	0.006212
5-Apr-2022	0.063644	8.749240	8.960820	4.729320	41.322192	0.012446	0.002489	0.012446	0.034848	0.000597	0.003734	0.079652	0.000037	0.008712	0.002738	0.000622	0.006223
6-Apr-2022	0.063630	8.753980	8.965670	4.731880	41.344570	0.012452	0.002490	0.012452	0.034867	0.000598	0.003736	0.079695	0.000037	0.008717	0.002740	0.000623	0.006226
7-Apr-2022	0.063616	8.750410	8.962010	4.729950	41.327708	0.012447	0.002489	0.012447	0.034852	0.000597	0.003734	0.079662	0.000037	0.008713	0.002738	0.000622	0.006224
8-Apr-2022	0.063603	8.740810	8.952180	4.724760	41.282364	0.012434	0.002487	0.012434	0.034814	0.000597	0.003730	0.079575	0.000037	0.008704	0.002735	0.000622	0.006217
9-Apr-2022	0.063590	8.726470	8.937500	4.717010	41.214643	0.012413	0.002483	0.012413	0.034757	0.000596	0.003724	0.079444	0.000037	0.008689	0.002731	0.000621	0.006207
10-Apr-2022	0.063578	8.707570	8.918130	4.706790	41.125364	0.012386	0.002477	0.012386	0.034682	0.000595	0.003716	0.079272	0.000037	0.008670	0.002725	0.000619	0.006193

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Apr-2022	0.063567	8.684350	8.894360	4.694240	41.015702	0.012353	0.002471	0.012353	0.034589	0.000593	0.003706	0.079061	0.000037	0.008647	0.002718	0.000618	0.006177
12-Apr-2022	0.063557	8.657200	8.866550	4.679570	40.887498	0.012315	0.002463	0.012315	0.034481	0.000591	0.003694	0.078814	0.000037	0.008620	0.002709	0.000616	0.006157
13-Apr-2022	0.063545	8.626790	8.835410	4.663130	40.743864	0.012271	0.002454	0.012271	0.034360	0.000589	0.003681	0.078537	0.000037	0.008590	0.002700	0.000614	0.006136
14-Apr-2022	0.063535	8.594300	8.802130	4.645570	40.590424	0.012225	0.002445	0.012225	0.034231	0.000587	0.003668	0.078241	0.000037	0.008558	0.002690	0.000611	0.006113
15-Apr-2022	0.063526	8.560300	8.767310	4.627190	40.429838	0.012177	0.002435	0.012177	0.034095	0.000584	0.003653	0.077932	0.000037	0.008524	0.002679	0.000609	0.006088
16-Apr-2022	0.063516	8.524690	8.730830	4.607940	40.261648	0.012126	0.002425	0.012126	0.033953	0.000582	0.003638	0.077607	0.000036	0.008488	0.002668	0.000606	0.006063
17-Apr-2022	0.063506	8.487940	8.693190	4.588070	40.088058	0.012074	0.002415	0.012074	0.033807	0.000580	0.003622	0.077273	0.000036	0.008452	0.002656	0.000604	0.006037
18-Apr-2022	0.063500	8.450570	8.654920	4.567880	39.911603	0.012021	0.002404	0.012021	0.033658	0.000577	0.003606	0.076933	0.000036	0.008415	0.002645	0.000601	0.006010
19-Apr-2022	0.063497	8.413190	8.616640	4.547670	39.735040	0.011968	0.002394	0.011968	0.033509	0.000574	0.003590	0.076592	0.000036	0.008377	0.002633	0.000598	0.005984
20-Apr-2022	0.063494	8.375630	8.578170	4.527370	39.557658	0.011914	0.002383	0.011914	0.033360	0.000572	0.003574	0.076250	0.000036	0.008340	0.002621	0.000596	0.005957
21-Apr-2022	0.063491	8.338220	8.539860	4.507150	39.380979	0.011861	0.002372	0.011861	0.033211	0.000569	0.003558	0.075910	0.000036	0.008303	0.002609	0.000593	0.005930
22-Apr-2022	0.063487	8.301130	8.501860	4.487090	39.205758	0.011808	0.002362	0.011808	0.033063	0.000567	0.003542	0.075572	0.000035	0.008266	0.002598	0.000590	0.005904
23-Apr-2022	0.063485	8.264460	8.464310	4.467280	39.032616	0.011756	0.002351	0.011756	0.032917	0.000564	0.003527	0.075238	0.000035	0.008229	0.002586	0.000588	0.005878
24-Apr-2022	0.063483	8.228280	8.427260	4.447720	38.861726	0.011705	0.002341	0.011705	0.032773	0.000562	0.003511	0.074909	0.000035	0.008193	0.002575	0.000585	0.005852
25-Apr-2022	0.063481	8.192520	8.390630	4.428390	38.692832	0.011654	0.002331	0.011654	0.032630	0.000559	0.003496	0.074583	0.000035	0.008158	0.002564	0.000583	0.005827
26-Apr-2022	0.063480	8.157240	8.354500	4.409320	38.526208	0.011604	0.002321	0.011604	0.032490	0.000557	0.003481	0.074262	0.000035	0.008122	0.002553	0.000580	0.005802
27-Apr-2022	0.063477	8.122470	8.318890	4.390530	38.362010	0.011554	0.002311	0.011554	0.032351	0.000555	0.003466	0.073946	0.000035	0.008088	0.002542	0.000578	0.005777
28-Apr-2022	0.063474	8.088280	8.283870	4.372040	38.200496	0.011505	0.002301	0.011505	0.032215	0.000552	0.003452	0.073634	0.000035	0.008054	0.002531	0.000575	0.005753
29-Apr-2022	0.063471	8.054590	8.249370	4.353830	38.041383	0.011458	0.002291	0.011458	0.032081	0.000550	0.003437	0.073328	0.000034	0.008020	0.002521	0.000573	0.005729
30-Apr-2022	0.063488	8.021420	8.215400	4.335900	37.884722	0.011410	0.002282	0.011410	0.031949	0.000548	0.003423	0.073026	0.000034	0.007987	0.002510	0.000571	0.005705
1-May-2022	0.063718	7.986650	8.179780	4.317110	37.720524	0.011361	0.002272	0.011361	0.031810	0.000545	0.003408	0.072709	0.000034	0.007953	0.002499	0.000568	0.005680
2-May-2022	0.065087	7.941250	8.133280	4.292570	37.506105	0.011296	0.002259	0.011296	0.031629	0.000542	0.003389	0.072296	0.000034	0.007907	0.002485	0.000565	0.005648
3-May-2022	0.071140	7.841070	8.030680	4.238410	37.032924	0.011154	0.002231	0.011154	0.031230	0.000535	0.003346	0.071384	0.000033	0.007808	0.002454	0.000558	0.005577
4-May-2022	0.077282	7.691540	7.877540	4.157590	36.326731	0.010941	0.002188	0.010941	0.030635	0.000525	0.003282	0.070023	0.000033	0.007659	0.002407	0.000547	0.005471
5-May-2022	0.082758	7.526870	7.708890	4.068580	35.549007	0.010707	0.002141	0.010707	0.029979	0.000514	0.003212	0.068524	0.000032	0.007495	0.002355	0.000535	0.005353
6-May-2022	0.089178	7.360520	7.538510	3.978660	34.763340	0.010470	0.002094	0.010470	0.029316	0.000503	0.003141	0.067009	0.000031	0.007329	0.002303	0.000524	0.005235
7-May-2022	0.094333	7.188240	7.362070	3.885540	33.949689	0.010225	0.002045	0.010225	0.028630	0.000491	0.003068	0.065441	0.000031	0.007158	0.002250	0.000511	0.005113
8-May-2022	0.099511	6.994860	7.164010	3.781000	33.036323	0.009950	0.001990	0.009950	0.027860	0.000478	0.002985	0.063680	0.000030	0.006965	0.002189	0.000498	0.004975
9-May-2022	0.104053	6.811360	6.976070	3.681810	32.169660	0.009689	0.001938	0.009689	0.027129	0.000465	0.002907	0.062010	0.000029	0.006782	0.002132	0.000484	0.004844
10-May-2022	0.108702	6.627440	6.787700	3.582400	31.301041	0.009427	0.001885	0.009427	0.026397	0.000453	0.002828	0.060335	0.000028	0.006599	0.002074	0.000471	0.004714
11-May-2022	0.118674	6.531230	6.689170	3.530400	30.846669	0.009291	0.001858	0.009291	0.026013	0.000446	0.002787	0.059459	0.000028	0.006503	0.002044	0.000465	0.004645
12-May-2022	0.125162	6.404910	6.559800	3.462110	30.250029	0.009111	0.001822	0.009111	0.025510	0.000437	0.002733	0.058309	0.000027	0.006378	0.002004	0.000456	0.004555
13-May-2022	0.133477	6.319340	6.472150	3.415860	29.845903	0.008989	0.001798	0.008989	0.025170	0.000431	0.002697	0.057530	0.000027	0.006292	0.001978	0.000449	0.004495
14-May-2022	0.136543	6.223980	6.374490	3.364320	29.395548	0.008853	0.001771	0.008853	0.024790	0.000425	0.002656	0.056662	0.000027	0.006197	0.001948	0.000443	0.004427
15-May-2022	0.150133	6.133440	6.281760	3.315370	28.967893	0.008725	0.001745	0.008725	0.024429	0.000419	0.002617	0.055838	0.000026	0.006107	0.001919	0.000436	0.004362
16-May-2022	0.161977	6.104050	6.251650	3.299480	28.829071	0.008683	0.001737	0.008683	0.024312	0.000417	0.002605	0.055570	0.000026	0.006078	0.001910	0.000434	0.004341
17-May-2022	0.178593	6.073300	6.220170	3.282870	28.683889	0.008639	0.001728	0.008639	0.024190	0.000415	0.002592	0.055290	0.000026	0.006047	0.001901	0.000432	0.004320
18-May-2022	0.183040	6.031810	6.177670	3.260440	28.487921	0.008580	0.001716	0.008580	0.024024	0.000412	0.002574	0.054913	0.000026	0.006006	0.001888	0.000429	0.004290
19-May-2022	0.187241	6.013300	6.158720	3.250430	28.400481	0.008554	0.001711	0.008554	0.023951	0.000411	0.002566	0.054744	0.000026	0.005988	0.001882	0.000428	0.004277
20-May-2022	0.191680	5.927970	6.071320	3.204310	27.997490	0.008433	0.001687	0.008433	0.023611	0.000405	0.002530	0.053968	0.000025	0.005903	0.001855	0.000422	0.004216
21-May-2022	0.192289	5.646130	5.782650	3.051920	26.666193	0.008040	0.001607	0.008037	0.022492	0.000386	0.002409	0.051407	0.000024	0.005622	0.001767	0.000402	0.004016
22-May-2022	0.186965	5.410580	5.541370	2.924540	25.553474	0.007715	0.001540	0.007708	0.021557	0.000369	0.002309	0.049268	0.000023	0.005388	0.001693	0.000385	0.003848
23-May-2022	0.188898	5.216950	5.343050	2.819860	24.638908	0.007444	0.001485	0.007435	0.020788	0.000356	0.002226	0.047508	0.000022	0.005195	0.001633	0.000371	0.003711
24-May-2022	0.193854	5.031230	5.152850	2.719480	23.761800	0.007178	0.001432	0.007170	0.020047	0.000344	0.002147	0.045817	0.000021	0.005010	0.001575	0.000358	0.003579
25-May-2022	0.195664	4.962020	5.081950	2.682050	23.434846	0.007091	0.001413	0.007078	0.019772	0.000339	0.002118	0.045187	0.000021	0.004942	0.001553	0.000353	0.003529
26-May-2022	0.199209	4.854970	4.972310	2.624170	22.929192	0.006930	0.001382	0.006921	0.019347	0.000332	0.002072	0.044214	0.000021	0.004835	0.001520	0.000345	0.003453
27-May-2022	0.202299	4.790750	4.906530	2.589460	22.625899	0.006836	0.001364	0.006828	0.019090	0.000327	0.002044	0.043629	0.000020	0.004771	0.001499	0.000341	0.003408
28-May-2022	0.205258	4.799010	4.915010	2.593940	22.664973	0.006843	0.001366	0.006837	0.019122	0.000328	0.002048	0.043703	0.000020	0.004779	0.001502	0.000341	0.003414
29-May-2022	0.210141	4.771190	4.886500	2.578900	22.533572	0.006804	0.001358	0.006798	0.019012	0.000326	0.002036	0.043450	0.000020	0.004752	0.001493	0.000339	0.003394
30-May-2022	0.214755	4.748660	4.863430	2.566710	22.427116	0.006774	0.001352	0.006767	0.018923	0.000324	0.002027	0.043246	0.000020	0.004729	0.001486	0.000338	0.003378
31-May-2022	0.223454	4.726170	4.840390	2.554530	22.320801	0.006747	0.001346	0.006738	0.018835	0.000323	0.002017	0.043044	0.000020	0.004707	0.001479	0.000336	0.003362
1-Jun-2022	0.250833	4.698890	4.812440	2.539770	22.191901	0.055676	0.003551	0.036393	0.018727	0.000321	0.002005	0.042798	0.000020	0.004680	0.001471	0.000334	0.003342

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Jun-2022	0.298605	4.526810	4.634710	2.443590	21.366148	0.071175	0.004139	0.045506	0.018275	0.000310	0.001933	0.041599	0.000020	0.004529	0.001421	0.000325	0.003248
3-Jun-2022	0.323155	4.443410	4.546780	2.393120	20.950063	0.233940	0.012596	0.147012	0.029192	0.000306	0.001900	0.055444	0.000035	0.004709	0.001401	0.000437	0.004371
4-Jun-2022	0.413111	4.083260	4.140520	2.133630	18.982189	0.225619	0.012174	0.141846	0.028609	0.000309	0.001784	0.054523	0.000035	0.004719	0.001389	0.000430	0.004298
5-Jun-2022	0.463751	4.098610	4.174530	2.165950	19.153611	0.182722	0.009998	0.115203	0.026282	0.000301	0.001772	0.051516	0.000031	0.004597	0.001355	0.000405	0.004055
6-Jun-2022	0.511898	4.127710	4.207950	2.189870	19.324777	0.172489	0.009499	0.108785	0.025405	0.000301	0.001787	0.049817	0.000030	0.004497	0.001363	0.000392	0.003921
7-Jun-2022	0.584018	4.131510	4.201760	2.170110	19.252893	0.147687	0.008254	0.093289	0.024262	0.000303	0.001793	0.048495	0.000029	0.004519	0.001372	0.000381	0.003813
8-Jun-2022	0.664911	4.115800	4.180660	2.151250	19.136000	0.136619	0.007710	0.086528	0.023738	0.000305	0.001791	0.047924	0.000028	0.004571	0.001380	0.000377	0.003766
9-Jun-2022	0.816348	4.064000	4.123840	2.115580	18.859766	0.138643	0.007826	0.087913	0.023954	0.000302	0.001773	0.048184	0.000028	0.004568	0.001373	0.000379	0.003787
10-Jun-2022	1.011786	3.699460	3.744190	1.908200	17.095519	0.140772	0.007918	0.089002	0.024027	0.000293	0.001630	0.048270	0.000028	0.004460	0.001303	0.000379	0.003793
11-Jun-2022	1.234334	3.649900	3.691340	1.875670	16.837809	0.147563	0.008263	0.093159	0.024380	0.000292	0.001615	0.048717	0.000029	0.004462	0.001298	0.000383	0.003829
12-Jun-2022	1.462073	3.598740	3.626200	1.836990	16.550779	0.154312	0.008576	0.096283	0.024601	0.000290	0.001596	0.048933	0.000029	0.004449	0.001289	0.000385	0.003846
13-Jun-2022	1.643903	3.558070	3.582210	1.798400	16.290312	0.162919	0.009007	0.102095	0.024936	0.000290	0.001581	0.049332	0.000030	0.004451	0.001284	0.000388	0.003879
14-Jun-2022	1.843125	3.520830	3.541930	1.766460	16.065795	0.168184	0.009265	0.105505	0.025209	0.000289	0.001567	0.049706	0.000030	0.004452	0.001281	0.000391	0.003909
15-Jun-2022	2.050381	3.482070	3.500520	1.745360	15.882121	0.174050	0.009552	0.109184	0.025509	0.000287	0.001553	0.050082	0.000031	0.004445	0.001275	0.000394	0.003939
16-Jun-2022	2.396414	3.450650	3.467140	1.724280	15.716858	0.218250	0.011786	0.136734	0.028223	0.000293	0.001539	0.054031	0.000034	0.004602	0.001288	0.000426	0.004257
17-Jun-2022	2.698097	3.413470	3.426280	1.700500	15.526094	0.181285	0.009902	0.113664	0.025709	0.000283	0.001524	0.050213	0.000031	0.004412	0.001258	0.000395	0.003950
18-Jun-2022	2.845430	3.373240	3.383510	1.676240	15.325737	0.180018	0.009834	0.112771	0.025628	0.000280	0.001508	0.050007	0.000031	0.004376	0.001243	0.000393	0.003932
19-Jun-2022	3.045882	3.344580	3.353170	1.659220	15.184084	0.179629	0.009816	0.112490	0.025619	0.000281	0.001496	0.050098	0.000031	0.004383	0.001246	0.000393	0.003932
20-Jun-2022	3.200372	3.322280	3.327140	1.640060	15.049500	0.184124	0.010031	0.115124	0.025754	0.000281	0.001490	0.050131	0.000031	0.004378	0.001244	0.000394	0.003939
21-Jun-2022	3.366572	3.310510	3.313060	1.629230	14.975513	0.205849	0.011132	0.128650	0.027132	0.000284	0.001487	0.052212	0.000033	0.004459	0.001250	0.000411	0.004106
22-Jun-2022	3.616829	3.296210	3.296740	1.617190	14.890225	0.236350	0.012667	0.147598	0.028921	0.000289	0.001483	0.054805	0.000036	0.004562	0.001261	0.000431	0.004315
23-Jun-2022	3.807379	3.283800	3.283100	1.608370	14.822916	0.223915	0.012017	0.139595	0.027880	0.000285	0.001480	0.053221	0.000034	0.004479	0.001255	0.000419	0.004185
24-Jun-2022	4.180999	3.267940	3.263870	1.594440	14.725950	0.247864	0.013247	0.154712	0.029593	0.000291	0.001476	0.055787	0.000036	0.004601	0.001265	0.000439	0.004393
25-Jun-2022	4.565448	3.249000	3.242800	1.579490	14.617093	0.260490	0.013697	0.155571	0.029726	0.000480	0.001470	0.058323	0.000037	0.004617	0.001268	0.000441	0.004410
26-Jun-2022	4.715190	3.243310	3.234610	1.577100	14.593043	0.277457	0.014673	0.164209	0.029563	0.000474	0.001465	0.059300	0.000036	0.004594	0.001261	0.000434	0.004338
27-Jun-2022	4.865701	3.233740	3.220630	1.572750	14.551233	0.292646	0.015417	0.169872	0.030249	0.000511	0.001461	0.061388	0.000037	0.004682	0.001278	0.000442	0.004419
28-Jun-2022	4.987389	3.221740	3.205020	1.564260	14.486307	0.299771	0.015761	0.172367	0.030839	0.000492	0.001459	0.061516	0.000038	0.004725	0.001285	0.000450	0.004496
29-Jun-2022	5.130059	3.214010	3.193800	1.556850	14.436491	0.298207	0.015739	0.177951	0.031481	0.000501	0.001455	0.061687	0.000039	0.004773	0.001292	0.000457	0.004572
30-Jun-2022	5.324236	3.205860	3.182990	1.549060	14.384062	0.305208	0.016015	0.175402	0.030866	0.000495	0.001451	0.062088	0.000038	0.004707	0.001276	0.000448	0.004483
1-Jul-2022	6.003694	3.192560	3.252650	1.489730	14.106530	0.217107	0.010817	0.116315	0.025525	0.000380	0.001396	0.053467	0.000038	0.004347	0.001271	0.000396	0.003955
2-Jul-2022	7.400323	3.318180	3.522410	1.470230	14.339903	0.253163	0.011256	0.118524	0.025138	0.000451	0.001369	0.055049	0.000051	0.004472	0.001379	0.000423	0.004233
3-Jul-2022	8.100797	3.366140	3.613030	1.468430	14.452246	0.271973	0.011471	0.121734	0.025119	0.000488	0.001360	0.055919	0.000055	0.004525	0.001418	0.000431	0.004313
4-Jul-2022	8.558812	3.380670	3.648480	1.468390	14.488363	0.272736	0.011312	0.119835	0.024859	0.000496	0.001355	0.055404	0.000056	0.004519	0.001427	0.000433	0.004327
5-Jul-2022	9.355030	3.532910	3.926410	1.490940	14.961367	0.301432	0.011627	0.123067	0.025061	0.000545	0.001358	0.055838	0.000066	0.004635	0.001520	0.000456	0.004560
6-Jul-2022	9.717244	3.853350	4.513110	1.538910	15.959046	0.362735	0.012313	0.130162	0.025503	0.000647	0.001364	0.056913	0.000086	0.004874	0.001716	0.000506	0.005056
7-Jul-2022	10.633558	4.134380	5.029970	1.582370	16.839747	0.414589	0.012825	0.135417	0.025858	0.000732	0.001369	0.057693	0.000103	0.005075	0.001885	0.000549	0.005490
8-Jul-2022	11.195612	4.294530	5.323520	1.607020	17.341150	0.443895	0.013158	0.139015	0.026073	0.000780	0.001373	0.058271	0.000113	0.005192	0.001982	0.000573	0.005735
9-Jul-2022	11.561141	3.956940	4.708240	1.555210	16.284834	0.385948	0.012706	0.134837	0.025550	0.000685	0.001365	0.057805	0.000093	0.004937	0.001777	0.000524	0.005236
10-Jul-2022	12.527041	4.237480	5.218840	1.597130	17.157969	0.438920	0.013302	0.140974	0.025983	0.000775	0.001371	0.058820	0.000110	0.005153	0.001949	0.000566	0.005665
11-Jul-2022	12.847151	4.909950	6.448540	1.698860	19.256051	0.564878	0.014602	0.154233	0.026916	0.000984	0.001385	0.060945	0.000151	0.005654	0.002358	0.000670	0.006697
12-Jul-2022	13.205088	4.973780	6.576930	1.710620	19.463862	0.577552	0.014708	0.155534	0.026836	0.001000	0.001385	0.060991	0.000156	0.005672	0.002393	0.000681	0.006814
13-Jul-2022	14.380684	4.104560	4.982030	1.578430	16.749061	0.413542	0.012946	0.137192	0.025625	0.000730	0.001368	0.058162	0.000102	0.005034	0.001865	0.000547	0.005469
14-Jul-2022	15.386494	4.293160	5.324340	1.606540	17.335752	0.449618	0.013371	0.141507	0.025920	0.000792	0.001372	0.058945	0.000114	0.005181	0.001981	0.000576	0.005758
15-Jul-2022	16.062486	4.723640	6.132230	1.674210	18.689326	0.535964	0.014394	0.152825	0.026241	0.000927	0.001379	0.060591	0.000142	0.005452	0.002238	0.000647	0.006465
16-Jul-2022	16.347888	4.618960	5.929050	1.657140	18.357646	0.512640	0.014071	0.148997	0.026275	0.000893	0.001378	0.060084	0.000134	0.005406	0.002177	0.000628	0.006277
17-Jul-2022	16.882396	4.586560	5.865540	1.651490	18.253476	0.507502	0.014071	0.148928	0.026251	0.000887	0.001378	0.060199	0.000132	0.005387	0.002158	0.000622	0.006225
18-Jul-2022	17.593316	4.812860	6.278960	1.684710	18.955347	0.556183	0.014818	0.156973	0.026574	0.000969	0.001382	0.061699	0.000147	0.005559	0.002298	0.000659	0.006591
19-Jul-2022	17.615806	5.109000	6.820420	1.730790	19.884566	0.603884	0.015048	0.158759	0.026985	0.001047	0.001389	0.061805	0.000164	0.005777	0.002476	0.000702	0.007022
20-Jul-2022	17.809927	4.628440	5.939150	1.657300	18.381976	0.516605	0.014230	0.150505	0.026282	0.000905	0.001379	0.060661	0.000135	0.005423	0.002185	0.000629	0.006289
21-Jul-2022	17.796329	4.718000	6.105540	1.671110	18.662477	0.535425	0.014492	0.153384	0.026374	0.000935	0.001381	0.061135	0.000141	0.005484	0.002239	0.000644	0.006437
22-Jul-2022	17.662786	4.627450	5.932390	1.655630	18.372627	0.526334	0.014717	0.156307	0.026304	0.000926	0.001379	0.061987	0.000135	0.005434	0.002187	0.000631	0.006310
23-Jul-2022	16.929924	4.570710	5.829680	1.647470	18.197344	0.515411	0.014585	0.155007	0.026186	0.000908	0.001378	0.061757	0.000132	0.005388	0.002152	0.000622	0.006225

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24-Jul-2022	16.469712	4.650690	5.977310	1.659960	18.448488	0.529733	0.014708	0.156203	0.026276	0.000931	0.001380	0.061930	0.000137	0.005444	0.002200	0.000635	0.006348
25-Jul-2022	16.214753	4.688480	6.048270	1.666060	18.567970	0.537223	0.014795	0.157161	0.026286	0.000943	0.001381	0.062089	0.000139	0.005467	0.002222	0.000641	0.006410
26-Jul-2022	16.090229	4.714850	6.097170	1.670260	18.651111	0.542544	0.014863	0.157868	0.026298	0.000951	0.001381	0.062230	0.000141	0.005484	0.002238	0.000645	0.006453
27-Jul-2022	16.867851	4.817380	6.285080	1.685970	18.971822	0.562113	0.015083	0.160107	0.026418	0.000984	0.001383	0.062645	0.000148	0.005558	0.002300	0.000661	0.006613
28-Jul-2022	16.844396	4.964270	6.553900	1.708410	19.431015	0.589735	0.015381	0.163186	0.026621	0.001030	0.001386	0.063145	0.000157	0.005666	0.002389	0.000684	0.006839
29-Jul-2022	16.933237	5.083550	6.774790	1.726930	19.805122	0.613615	0.015678	0.166442	0.026744	0.001069	0.001389	0.063670	0.000164	0.005748	0.002461	0.000703	0.007031
30-Jul-2022	17.214386	5.415090	7.379120	1.777110	20.839619	0.673564	0.016249	0.172054	0.027241	0.001169	0.001396	0.064573	0.000184	0.006000	0.002663	0.000753	0.007531
31-Jul-2022	16.095749	5.163780	6.922540	1.739240	20.056149	0.628924	0.015846	0.168160	0.026816	0.001095	0.001390	0.063990	0.000169	0.005804	0.002510	0.000716	0.007157
1-Aug-2022	15.760773	5.134430	6.868450	1.734920	19.965072	0.624711	0.015851	0.168257	0.026745	0.001089	0.001390	0.064136	0.000168	0.005781	0.002492	0.000712	0.007116
2-Aug-2022	15.529508	5.209800	7.007200	1.746710	20.201822	0.638491	0.015981	0.169491	0.026811	0.001115	0.001391	0.064539	0.000172	0.005833	0.002537	0.000724	0.007236
3-Aug-2022	15.631263	5.345410	7.260850	1.768100	20.628525	0.661996	0.016134	0.170958	0.026938	0.001155	0.001394	0.064910	0.000181	0.005922	0.002618	0.000745	0.007455
4-Aug-2022	15.472180	5.360550	7.285560	1.770280	20.675306	0.665652	0.016216	0.171874	0.026974	0.001162	0.001395	0.065091	0.000182	0.005938	0.002628	0.000747	0.007475
5-Aug-2022	15.056818	5.304750	7.185740	1.762260	20.502947	0.654901	0.016077	0.170452	0.026821	0.001145	0.001393	0.064988	0.000179	0.005889	0.002593	0.000739	0.007394
6-Aug-2022	15.271608	5.368810	7.302310	1.772200	20.703838	0.667913	0.016251	0.172316	0.026863	0.001171	0.001395	0.065621	0.000183	0.005934	0.002632	0.000750	0.007499
7-Aug-2022	14.011200	5.469290	7.488510	1.787840	21.019142	0.685784	0.016393	0.173754	0.026964	0.001202	0.001397	0.065913	0.000189	0.006003	0.002692	0.000766	0.007657
8-Aug-2022	13.540014	5.416750	7.391820	1.780180	20.856406	0.677010	0.016339	0.173360	0.026836	0.001190	0.001396	0.066058	0.000186	0.005962	0.002660	0.000758	0.007582
9-Aug-2022	12.511453	5.526850	7.588060	1.797030	21.200714	0.700831	0.016727	0.177780	0.026969	0.001241	0.001399	0.067380	0.000193	0.006050	0.002728	0.000776	0.007759
10-Aug-2022	12.094267	5.561200	7.655000	1.802760	21.310082	0.705364	0.016686	0.177167	0.026967	0.001247	0.001399	0.067238	0.000196	0.006066	0.002748	0.000781	0.007814
11-Aug-2022	11.775510	5.554760	7.646810	1.802270	21.291984	0.702466	0.016578	0.175879	0.026913	0.001239	0.001399	0.066908	0.000195	0.006053	0.002742	0.000781	0.007807
12-Aug-2022	11.307553	5.609110	7.747770	1.810930	21.463357	0.712092	0.016652	0.176600	0.026949	0.001256	0.001400	0.067117	0.000199	0.006088	0.002775	0.000789	0.007894
13-Aug-2022	11.034035	5.677760	7.874230	1.821720	21.679210	0.724576	0.016765	0.177743	0.027014	0.001278	0.001402	0.067423	0.000203	0.006135	0.002816	0.000800	0.008002
14-Aug-2022	10.630851	5.734190	7.978380	1.830680	21.857013	0.735016	0.016865	0.178784	0.027056	0.001298	0.001403	0.067754	0.000207	0.006173	0.002850	0.000809	0.008094
15-Aug-2022	9.869080	5.771960	8.048650	1.836820	21.976609	0.741810	0.016919	0.179337	0.027067	0.001311	0.001404	0.067978	0.000209	0.006197	0.002872	0.000816	0.008156
16-Aug-2022	9.328126	5.823860	8.145530	1.845170	22.140588	0.750834	0.016979	0.179902	0.027099	0.001327	0.001405	0.068178	0.000213	0.006229	0.002903	0.000824	0.008240
17-Aug-2022	10.655925	5.927420	8.335720	1.861220	22.465272	0.769302	0.017138	0.181449	0.027214	0.001358	0.001407	0.068538	0.000219	0.006303	0.002965	0.000840	0.008399
18-Aug-2022	10.415447	6.409180	9.216850	1.934570	23.970282	0.857035	0.017980	0.189817	0.027883	0.001506	0.001417	0.069937	0.000249	0.006661	0.003258	0.000913	0.009134
19-Aug-2022	11.183245	6.249310	8.927210	1.911030	23.474149	0.827875	0.017688	0.186913	0.027599	0.001463	0.001413	0.069885	0.000239	0.006533	0.003160	0.000890	0.008904
20-Aug-2022	11.001259	6.242410	8.914860	1.910180	23.453419	0.826403	0.017652	0.186552	0.027556	0.001462	0.001413	0.069926	0.000239	0.006525	0.003155	0.000890	0.008895
21-Aug-2022	10.051980	6.174780	8.791910	1.900250	23.243655	0.813891	0.017518	0.185236	0.027413	0.001444	0.001412	0.069867	0.000235	0.006471	0.003114	0.000880	0.008796
22-Aug-2022	9.722518	6.131450	8.714320	1.894150	23.110340	0.805401	0.017406	0.184068	0.027294	0.001430	0.001411	0.069742	0.000232	0.006433	0.003086	0.000873	0.008733
23-Aug-2022	9.046345	6.137640	8.727300	1.895500	23.131356	0.806066	0.017385	0.183828	0.027256	0.001431	0.001411	0.069779	0.000233	0.006432	0.003090	0.000875	0.008745
24-Aug-2022	8.130522	6.175950	8.798550	1.901720	23.252630	0.812798	0.017432	0.184285	0.027269	0.001445	0.001412	0.070011	0.000236	0.006456	0.003112	0.000881	0.008808
25-Aug-2022	7.411608	6.223950	8.887460	1.909430	23.404236	0.821244	0.017495	0.184894	0.027297	0.001461	0.001413	0.070241	0.000239	0.006487	0.003141	0.000889	0.008885
26-Aug-2022	6.963408	6.273450	8.979330	1.917380	23.560575	0.829921	0.017558	0.185489	0.027327	0.001477	0.001414	0.070468	0.000242	0.006519	0.003170	0.000896	0.008965
27-Aug-2022	6.890758	6.303650	9.036160	1.922460	23.656904	0.834941	0.017579	0.185667	0.027325	0.001486	0.001415	0.070612	0.000244	0.006536	0.003188	0.000902	0.009015
28-Aug-2022	7.286383	6.287030	9.008070	1.920430	23.607045	0.831154	0.017500	0.184801	0.027237	0.001481	0.001415	0.070602	0.000243	0.006516	0.003177	0.000899	0.008994
29-Aug-2022	7.066127	6.366840	9.154790	1.932910	23.857723	0.845509	0.017627	0.186072	0.027325	0.001506	0.001416	0.070888	0.000248	0.006572	0.003225	0.000912	0.009119
30-Aug-2022	6.726879	6.421160	9.254970	1.941430	24.028445	0.855057	0.017701	0.186762	0.027370	0.001523	0.001417	0.071095	0.000251	0.006610	0.003257	0.000920	0.009204
31-Aug-2022	6.795033	7.164000	10.611500	2.054210	26.347745	0.990807	0.019035	0.200089	0.028454	0.001749	0.001433	0.073232	0.000297	0.007167	0.003709	0.001033	0.010332
1-Sep-2022	7.184257	7.101690	10.498300	2.044880	26.153736	0.979165	0.018907	0.198763	0.028343	0.001731	0.001431	0.073101	0.000293	0.007118	0.003671	0.001024	0.010239
2-Sep-2022	6.822391	6.953620	10.232900	2.022240	25.690773	0.952120	0.018608	0.195754	0.028067	0.001688	0.001427	0.072740	0.000284	0.006998	0.003580	0.001002	0.010023
3-Sep-2022	6.661355	6.593010	9.575820	1.967310	24.564129	0.886528	0.017958	0.189286	0.027475	0.001582	0.001419	0.071884	0.000263	0.006723	0.003361	0.000948	0.009476
4-Sep-2022	5.773853	6.675500	9.726000	1.979870	24.821828	0.901438	0.018100	0.190686	0.027584	0.001607	0.001421	0.072149	0.000268	0.006785	0.003411	0.000960	0.009601
5-Sep-2022	5.220100	6.809690	9.974600	1.999650	25.238355	0.926363	0.018335	0.193059	0.027746	0.001649	0.001422	0.072520	0.000276	0.006881	0.003493	0.000981	0.009808
6-Sep-2022	5.209417	6.883810	10.110700	2.010670	25.468813	0.940112	0.018470	0.194410	0.027838	0.001673	0.001423	0.072789	0.000281	0.006936	0.003539	0.000992	0.009922
7-Sep-2022	5.522703	7.032300	10.382800	2.032730	25.930435	0.967928	0.018748	0.197120	0.028000	0.001727	0.001425	0.073624	0.000290	0.007046	0.003630	0.001015	0.010150
8-Sep-2022	4.865984	6.921630	10.180300	2.016380	25.586763	0.947175	0.018535	0.195039	0.027846	0.001689	0.001423	0.073102	0.000283	0.006963	0.003562	0.000998	0.009981
9-Sep-2022	3.877354	6.995000	10.320600	2.026540	25.811807	0.961191	0.018652	0.196238	0.027896	0.001712	0.001423	0.073254	0.000288	0.007009	0.003607	0.001010	0.010099
10-Sep-2022	3.425106	6.985780	10.302000	2.025710	25.785366	0.959257	0.018637	0.196082	0.027885	0.001708	0.001423	0.073255	0.000287	0.007003	0.003601	0.001008	0.010083
11-Sep-2022	3.921167	7.260940	10.804300	2.067420	26.644203	1.009510	0.019130	0.200997	0.028284	0.001792	0.001429	0.074054	0.000304	0.007210	0.003768	0.001050	0.010500
12-Sep-2022	4.132806	7.301970	10.881100	2.073260	26.770704	1.017380	0.019202	0.201642	0.028310	0.001809	0.001429	0.074348	0.000307	0.007238	0.003794	0.001057	0.010566
13-Sep-2022	3.207586	7.174110	10.650700	2.053610	26.370519	0.994072	0.018956	0.199222	0.028080	0.001769	0.001426	0.073886	0.000299	0.007137	0.003716	0.001037	0.010374

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Sep-2022	2.640708	7.188520	10.679000	2.055700	26.415107	0.996838	0.018975	0.199434	0.028071	0.001773	0.001425	0.073922	0.000300	0.007144	0.003724	0.001040	0.010398
15-Sep-2022	2.722864	7.235380	10.766300	2.062600	26.560531	1.005390	0.019047	0.200127	0.028118	0.001788	0.001426	0.074025	0.000303	0.007177	0.003753	0.001047	0.010470
16-Sep-2022	1.674760	7.353860	10.983800	2.080380	26.929593	1.027350	0.019264	0.202307	0.028268	0.001826	0.001428	0.074440	0.000311	0.007264	0.003825	0.001065	0.010652
17-Sep-2022	0.689455	7.441270	11.143500	2.093810	27.203161	1.043180	0.019414	0.203799	0.028382	0.001852	0.001430	0.074706	0.000316	0.007329	0.003878	0.001078	0.010785
18-Sep-2022	0.523617	7.461930	11.184700	2.096530	27.265950	1.047340	0.019446	0.204132	0.028378	0.001859	0.001429	0.074746	0.000318	0.007339	0.003891	0.001082	0.010820
19-Sep-2022	0.490857	7.543330	11.334800	2.108670	27.519198	1.062380	0.019588	0.205541	0.028471	0.001885	0.001430	0.075014	0.000323	0.007398	0.003940	0.001095	0.010945
20-Sep-2022	0.753073	7.870330	11.932400	2.158330	28.540217	1.122070	0.020172	0.211383	0.028945	0.001983	0.001437	0.075891	0.000343	0.007642	0.004139	0.001144	0.011442
21-Sep-2022	0.605635	7.740450	11.700500	2.138430	28.133958	1.098690	0.019923	0.208936	0.028683	0.001943	0.001433	0.075455	0.000335	0.007535	0.004059	0.001125	0.011250
22-Sep-2022	0.658263	7.962980	12.108500	2.171840	28.827198	1.139620	0.020320	0.212902	0.028980	0.002012	0.001437	0.076147	0.000349	0.007700	0.004195	0.001159	0.011590
23-Sep-2022	0.847800	7.889600	11.974700	2.160400	28.596858	1.126100	0.020178	0.211444	0.028866	0.001991	0.001435	0.075967	0.000344	0.007645	0.004151	0.001148	0.011478
24-Sep-2022	0.958922	8.141880	12.438800	2.198250	29.382668	1.172690	0.020631	0.215994	0.029196	0.002069	0.001439	0.076688	0.000360	0.007829	0.004304	0.001186	0.011865
25-Sep-2022	0.892664	8.055990	12.283500	2.184800	29.112813	1.157110	0.020469	0.214358	0.029049	0.002044	0.001436	0.076479	0.000355	0.007763	0.004252	0.001174	0.011735
26-Sep-2022	0.495312	7.924980	12.043500	2.165040	28.704310	1.133340	0.020242	0.212081	0.028844	0.002007	0.001434	0.076240	0.000347	0.007665	0.004173	0.001154	0.011537
27-Sep-2022	0.049907	7.831630	11.873300	2.151150	28.414016	1.116170	0.020069	0.210343	0.028692	0.001978	0.001432	0.075989	0.000341	0.007594	0.004116	0.001140	0.011395
28-Sep-2022	0.389937	7.915890	12.028100	2.163810	28.676547	1.131400	0.020204	0.211673	0.028789	0.002004	0.001433	0.076215	0.000346	0.007655	0.004167	0.001152	0.011523
29-Sep-2022	0.019960	8.030650	12.241900	2.180540	29.031997	1.152900	0.020406	0.213697	0.028919	0.002040	0.001434	0.076512	0.000354	0.007735	0.004237	0.001170	0.011702
30-Sep-2022	0.025785	7.909080	12.019400	2.162460	28.653983	1.130760	0.020193	0.211578	0.028725	0.002004	0.001432	0.076258	0.000346	0.007643	0.004163	0.001152	0.011518
1-Oct-2022	0.081574	7.883730	11.972100	2.159790	28.579689	1.125960	0.020155	0.211249	0.028748	0.001995	0.001437	0.076155	0.000345	0.007626	0.004146	0.001148	0.011480
2-Oct-2022	0.128085	7.736260	11.705400	2.135920	28.113160	1.099260	0.019876	0.208401	0.028467	0.001951	0.001432	0.075720	0.000336	0.007512	0.004058	0.001126	0.011256
3-Oct-2022	0.044003	7.682450	11.605400	2.127810	27.945399	1.089320	0.019781	0.207439	0.028391	0.001937	0.001432	0.075644	0.000332	0.007474	0.004025	0.001117	0.011172
4-Oct-2022	0.038231	7.643230	11.532200	2.122560	27.825847	1.081810	0.019709	0.206734	0.028354	0.001923	0.001431	0.075487	0.000330	0.007446	0.004001	0.001111	0.011110
5-Oct-2022	0.031885	7.624680	11.497800	2.120080	27.769315	1.078220	0.019673	0.206375	0.028336	0.001917	0.001428	0.075384	0.000329	0.007432	0.003989	0.001108	0.011081
6-Oct-2022	0.203238	7.613010	11.476500	2.118160	27.732269	1.076150	0.019653	0.206178	0.028317	0.001914	0.001428	0.075363	0.000328	0.007424	0.003983	0.001106	0.011063
7-Oct-2022	0.232310	7.601150	11.455100	2.116430	27.695530	1.073970	0.019630	0.205942	0.028304	0.001910	0.001429	0.075304	0.000327	0.007415	0.003975	0.001104	0.011045
8-Oct-2022	0.208240	7.577230	11.410900	2.112770	27.620730	1.069550	0.019588	0.205534	0.028270	0.001903	0.001427	0.075235	0.000326	0.007397	0.003961	0.001101	0.011007
9-Oct-2022	0.078687	7.544360	11.350300	2.107940	27.518764	1.063510	0.019530	0.204966	0.028230	0.001893	0.001425	0.075206	0.000324	0.007374	0.003941	0.001096	0.010956
10-Oct-2022	0.103474	7.535460	11.334100	2.106560	27.490858	1.061800	0.019510	0.204771	0.028218	0.001890	0.001427	0.075081	0.000323	0.007367	0.003935	0.001094	0.010942
11-Oct-2022	0.070328	7.513650	11.294600	2.103150	27.422356	1.057840	0.019470	0.204375	0.028187	0.001883	0.001426	0.074991	0.000322	0.007350	0.003922	0.001091	0.010908
12-Oct-2022	0.195288	7.486000	11.243200	2.099140	27.336801	1.052730	0.019422	0.203909	0.028154	0.001875	0.001424	0.074971	0.000320	0.007331	0.003905	0.001087	0.010865
13-Oct-2022	0.148955	7.477960	11.230000	2.097320	27.309230	1.051440	0.019404	0.203728	0.028131	0.001873	0.001424	0.074908	0.000320	0.007324	0.003901	0.001085	0.010853
14-Oct-2022	0.058841	7.460550	11.198300	2.094650	27.254762	1.048300	0.019374	0.203432	0.028106	0.001867	0.001423	0.074810	0.000319	0.007310	0.003890	0.001083	0.010826
15-Oct-2022	0.056146	7.444270	11.168600	2.092160	27.203857	1.045290	0.019343	0.203127	0.028084	0.001862	0.001423	0.074736	0.000318	0.007298	0.003880	0.001080	0.010801
16-Oct-2022	0.050501	7.457720	11.193600	2.093960	27.244854	1.047880	0.019368	0.203373	0.028104	0.001867	0.001423	0.074799	0.000318	0.007308	0.003889	0.001082	0.010822
17-Oct-2022	0.051972	7.518420	11.281500	2.113830	27.478247	1.055940	0.019533	0.205173	0.028394	0.001881	0.001441	0.075528	0.000321	0.007370	0.003920	0.001091	0.010909
18-Oct-2022	0.051648	7.574190	11.364700	2.128810	27.679192	1.063720	0.019678	0.206648	0.028596	0.001895	0.001449	0.076065	0.000323	0.007425	0.003948	0.001099	0.010990
19-Oct-2022	0.052496	7.636270	11.457000	2.145980	27.904912	1.072320	0.019842	0.208366	0.028806	0.001910	0.001460	0.076666	0.000326	0.007486	0.003981	0.001108	0.011080
20-Oct-2022	0.053306	7.675790	11.513800	2.158960	28.057045	1.077530	0.019950	0.209520	0.029010	0.001920	0.001471	0.077150	0.000327	0.007527	0.004000	0.001114	0.011136
21-Oct-2022	0.055758	7.724900	11.582400	2.173990	28.241566	1.083760	0.020091	0.211017	0.029197	0.001931	0.001479	0.077694	0.000329	0.007578	0.004025	0.001121	0.011206
22-Oct-2022	0.057300	7.694930	11.535800	2.166170	28.134528	1.079390	0.020018	0.210268	0.029094	0.001923	0.001474	0.077478	0.000328	0.007550	0.004009	0.001116	0.011162
23-Oct-2022	0.057517	7.709650	11.558000	2.170180	28.187797	1.081530	0.020058	0.210681	0.029147	0.001927	0.001477	0.077615	0.000328	0.007565	0.004016	0.001118	0.011184
24-Oct-2022	0.056707	7.747010	11.612100	2.181340	28.327042	1.086620	0.020163	0.211797	0.029298	0.001937	0.001485	0.078086	0.000330	0.007603	0.004036	0.001124	0.011237
25-Oct-2022	0.055499	7.771490	11.648000	2.188440	28.417406	1.090050	0.020231	0.212521	0.029394	0.001944	0.001490	0.078339	0.000331	0.007628	0.004048	0.001127	0.011273
26-Oct-2022	0.055011	7.799660	11.691500	2.196100	28.519291	1.093990	0.020296	0.213197	0.029497	0.001950	0.001496	0.078623	0.000332	0.007654	0.004063	0.001131	0.011314
27-Oct-2022	0.054742	7.834110	11.741300	2.206380	28.647646	1.098700	0.020394	0.214230	0.029637	0.001959	0.001502	0.078957	0.000334	0.007689	0.004081	0.001136	0.011364
28-Oct-2022	0.054791	7.865390	11.787100	2.215460	28.763143	1.103050	0.020480	0.215148	0.029759	0.001967	0.001509	0.079330	0.000335	0.007721	0.004097	0.001141	0.011409
29-Oct-2022	0.055240	7.899390	11.834600	2.226150	28.892063	1.107500	0.020580	0.216209	0.029908	0.001977	0.001517	0.079782	0.000336	0.007757	0.004114	0.001146	0.011457
30-Oct-2022	0.055336	7.939250	11.895000	2.237170	29.036973	1.113130	0.020681	0.217268	0.030055	0.001986	0.001524	0.080163	0.000338	0.007796	0.004135	0.001151	0.011515
31-Oct-2022	0.055104	7.977920	11.953900	2.247730	29.177018	1.118620	0.020778	0.218273	0.030196	0.001996	0.001531	0.080517	0.000340	0.007833	0.004155	0.001157	0.011571
1-Nov-2022	0.054622	8.010680	12.004000	2.256620	29.295429	1.123270	0.020858	0.219111	0.030316	0.002004	0.001537	0.080807	0.000341	0.007865	0.004172	0.001162	0.011619
2-Nov-2022	0.054001	8.032150	12.037100	2.262330	29.372553	1.126350	0.020910	0.219645	0.030392	0.002009	0.001541	0.080986	0.000342	0.007885	0.004184	0.001165	0.011650
3-Nov-2022	0.053451	8.061430	12.081200	2.270520	29.479392	1.130450	0.020984	0.220423	0.030502	0.002016	0.001546	0.081266	0.000343	0.007914	0.004199	0.001169	0.011692
4-Nov-2022	0.053043	8.090890	12.125000	2.278990	29.587833	1.134490	0.021060	0.221223	0.030618	0.002023	0.001552	0.081562	0.000344	0.007943	0.004214	0.001173	0.011735

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Nov-2022	0.051737	8.063660	12.088400	2.269680	29.481501	1.131290	0.020982	0.220395	0.030482	0.002017	0.001545	0.081219	0.000344	0.007913	0.004201	0.001170	0.011697
6-Nov-2022	0.050497	8.097410	12.139200	2.279110	29.604608	1.136060	0.021070	0.221319	0.030608	0.002026	0.001551	0.081561	0.000345	0.007946	0.004219	0.001175	0.011746
7-Nov-2022	0.049972	8.121860	12.175300	2.286170	29.694732	1.139440	0.021136	0.222010	0.030703	0.002032	0.001556	0.081825	0.000346	0.007970	0.004231	0.001178	0.011781
8-Nov-2022	0.049293	8.161500	12.234700	2.297300	29.839547	1.145030	0.021240	0.223106	0.030852	0.002042	0.001564	0.082234	0.000348	0.008009	0.004252	0.001184	0.011839
9-Nov-2022	0.048249	8.202770	12.296500	2.308910	29.990408	1.150840	0.021348	0.224243	0.031008	0.002053	0.001572	0.082657	0.000349	0.008050	0.004274	0.001190	0.011899
10-Nov-2022	0.047458	8.237630	12.348700	2.318700	30.117769	1.155740	0.021439	0.225201	0.031139	0.002062	0.001578	0.083013	0.000351	0.008084	0.004292	0.001195	0.011949
11-Nov-2022	0.046533	8.265230	12.390200	2.326420	30.218477	1.159640	0.021511	0.225955	0.031242	0.002069	0.001583	0.083291	0.000352	0.008111	0.004306	0.001199	0.011989
12-Nov-2022	0.045457	8.290930	12.428800	2.333620	30.312299	1.163260	0.021578	0.226661	0.031338	0.002075	0.001588	0.083553	0.000353	0.008136	0.004320	0.001203	0.012027
13-Nov-2022	0.045064	8.311460	12.459500	2.339390	30.387324	1.166160	0.021633	0.227233	0.031415	0.002080	0.001592	0.083769	0.000354	0.008157	0.004330	0.001206	0.012057
14-Nov-2022	0.045017	8.327620	12.483400	2.344010	30.446700	1.168430	0.021677	0.227699	0.031477	0.002085	0.001595	0.083950	0.000355	0.008173	0.004339	0.001208	0.012080
15-Nov-2022	0.044978	8.350000	12.516700	2.350380	30.528815	1.171580	0.021737	0.228334	0.031563	0.002091	0.001600	0.084194	0.000356	0.008195	0.004350	0.001211	0.012112
16-Nov-2022	0.045000	8.391820	12.579600	2.362090	30.681461	1.177460	0.021845	0.229469	0.031720	0.002101	0.001608	0.084671	0.000357	0.008236	0.004372	0.001217	0.012173
17-Nov-2022	0.045068	8.416000	12.614100	2.369340	30.771694	1.180840	0.021918	0.230257	0.031816	0.002108	0.001613	0.084951	0.000358	0.008261	0.004385	0.001221	0.012208
18-Nov-2022	0.045009	8.461840	12.683600	2.381970	30.938167	1.187310	0.022034	0.231461	0.031986	0.002119	0.001621	0.085376	0.000360	0.008306	0.004409	0.001227	0.012275
19-Nov-2022	0.044925	8.506850	12.751400	2.394550	31.102361	1.193650	0.022150	0.232680	0.032154	0.002131	0.001630	0.085821	0.000362	0.008349	0.004432	0.001234	0.012340
20-Nov-2022	0.044944	8.560260	12.830900	2.409790	31.298484	1.201100	0.022291	0.234168	0.032360	0.002144	0.001640	0.086379	0.000365	0.008402	0.004460	0.001242	0.012417
21-Nov-2022	0.044942	8.628090	12.931700	2.429130	31.547498	1.210570	0.022472	0.236070	0.032620	0.002161	0.001654	0.087098	0.000367	0.008470	0.004495	0.001252	0.012515
22-Nov-2022	0.044728	8.695670	13.032000	2.448450	31.795805	1.220000	0.022652	0.237973	0.032880	0.002179	0.001667	0.087821	0.000370	0.008537	0.004530	0.001261	0.012613
23-Nov-2022	0.044351	8.743090	13.102300	2.462040	31.970176	1.226620	0.022780	0.239318	0.033063	0.002191	0.001676	0.088334	0.000372	0.008584	0.004555	0.001268	0.012682
24-Nov-2022	0.044113	8.790410	13.173000	2.475410	32.143392	1.233260	0.022904	0.240627	0.033243	0.002203	0.001686	0.088823	0.000374	0.008631	0.004579	0.001275	0.012750
25-Nov-2022	0.043986	8.849550	13.260900	2.492300	32.360618	1.241520	0.023062	0.242294	0.033470	0.002218	0.001697	0.089457	0.000377	0.008690	0.004610	0.001284	0.012836
26-Nov-2022	0.043824	8.910910	13.351900	2.509860	32.586146	1.250090	0.023227	0.244031	0.033706	0.002234	0.001709	0.090120	0.000379	0.008751	0.004642	0.001292	0.012925
27-Nov-2022	0.043626	8.942270	13.398700	2.518730	32.700978	1.254490	0.023310	0.244907	0.033825	0.002242	0.001715	0.090449	0.000381	0.008782	0.004658	0.001297	0.012970
28-Nov-2022	0.043392	8.942000	13.399700	2.518210	32.698163	1.254540	0.023303	0.244824	0.033817	0.002241	0.001715	0.090390	0.000381	0.008780	0.004658	0.001297	0.012970
29-Nov-2022	0.043304	8.961850	13.429700	2.523710	32.770377	1.257350	0.023354	0.245355	0.033890	0.002246	0.001719	0.090582	0.000382	0.008799	0.004669	0.001300	0.012999
30-Nov-2022	0.043283	8.998280	13.484100	2.534010	32.903758	1.262450	0.023449	0.246362	0.034029	0.002256	0.001726	0.090957	0.000383	0.008835	0.004688	0.001305	0.013052
1-Dec-2022	0.043201	9.049240	13.560100	2.548480	33.090593	1.269590	0.023584	0.247782	0.034223	0.002269	0.001735	0.091491	0.000385	0.008886	0.004714	0.001313	0.013126
2-Dec-2022	0.042959	9.063790	13.582000	2.552540	33.143643	1.271650	0.023622	0.248180	0.034277	0.002272	0.001738	0.091638	0.000386	0.008900	0.004722	0.001315	0.013147
3-Dec-2022	0.042653	9.067400	13.587900	2.553390	33.156158	1.272190	0.023629	0.248254	0.034288	0.002273	0.001739	0.091656	0.000386	0.008903	0.004724	0.001315	0.013152
4-Dec-2022	0.042612	9.086150	13.616000	2.558650	33.224637	1.274830	0.023678	0.248765	0.034359	0.002278	0.001742	0.091844	0.000387	0.008921	0.004734	0.001318	0.013180
5-Dec-2022	0.042633	9.116550	13.661500	2.567230	33.335878	1.279090	0.023758	0.249606	0.034474	0.002285	0.001748	0.092158	0.000388	0.008951	0.004749	0.001322	0.013224
6-Dec-2022	0.042616	9.156730	13.721800	2.578520	33.482700	1.284740	0.023863	0.250704	0.034625	0.002296	0.001756	0.092562	0.000390	0.008991	0.004770	0.001328	0.013282
7-Dec-2022	0.042585	9.202470	13.790500	2.591340	33.649706	1.291170	0.023981	0.251944	0.034797	0.002307	0.001764	0.093016	0.000392	0.009036	0.004794	0.001335	0.013348
8-Dec-2022	0.042556	9.206310	13.796700	2.592280	33.663165	1.291730	0.023989	0.252026	0.034810	0.002308	0.001765	0.093037	0.000392	0.009039	0.004796	0.001335	0.013354
9-Dec-2022	0.042573	9.225070	13.825400	2.597400	33.731093	1.294400	0.024035	0.252510	0.034878	0.002312	0.001768	0.093205	0.000393	0.009057	0.004806	0.001338	0.013381
10-Dec-2022	0.042485	9.149550	13.712800	2.575940	33.454147	1.283840	0.023836	0.250409	0.034589	0.002293	0.001754	0.092416	0.000390	0.008982	0.004767	0.001327	0.013272
11-Dec-2022	0.042356	9.172330	13.747300	2.582260	33.537055	1.287050	0.023894	0.251018	0.034674	0.002299	0.001758	0.092636	0.000391	0.009004	0.004779	0.001331	0.013305
12-Dec-2022	0.042353	9.213660	13.809500	2.593810	33.687819	1.292870	0.024000	0.252135	0.034829	0.002309	0.001766	0.093043	0.000392	0.009045	0.004800	0.001337	0.013365
13-Dec-2022	0.042362	9.261050	13.880500	2.607160	33.861127	1.299520	0.024124	0.253434	0.035008	0.002321	0.001775	0.093523	0.000394	0.009091	0.004825	0.001343	0.013434
14-Dec-2022	0.042264	9.305090	13.946300	2.619610	34.022364	1.305690	0.024239	0.254648	0.035176	0.002332	0.001783	0.093974	0.000396	0.009135	0.004848	0.001350	0.013498
15-Dec-2022	0.042205	9.344710	14.005700	2.630770	34.167252	1.311250	0.024343	0.255733	0.035325	0.002342	0.001791	0.094375	0.000398	0.009174	0.004869	0.001356	0.013555
16-Dec-2022	0.042220	9.386280	14.067700	2.642550	34.319562	1.317070	0.024452	0.256887	0.035484	0.002352	0.001799	0.094808	0.000400	0.009215	0.004890	0.001362	0.013615
17-Dec-2022	0.042213	9.419010	14.116900	2.651730	34.439092	1.321670	0.024537	0.257779	0.035607	0.002361	0.001805	0.095135	0.000401	0.009247	0.004907	0.001366	0.013663
18-Dec-2022	0.042163	9.455340	14.171500	2.661900	34.571688	1.326780	0.024631	0.258764	0.035743	0.002370	0.001812	0.095496	0.000403	0.009282	0.004926	0.001372	0.013716
19-Dec-2022	0.042151	9.493700	14.228900	2.672710	34.711989	1.332170	0.024731	0.259817	0.035888	0.002379	0.001819	0.095885	0.000404	0.009320	0.004946	0.001377	0.013771
20-Dec-2022	0.042127	9.470410	14.194000	2.666160	34.626861	1.328900	0.024671	0.259184	0.035800	0.002374	0.001815	0.095654	0.000403	0.009297	0.004934	0.001374	0.013737
21-Dec-2022	0.042121	9.509140	14.252100	2.677050	34.768414	1.334340	0.024772	0.260241	0.035946	0.002383	0.001822	0.096042	0.000405	0.009335	0.004954	0.001379	0.013794
22-Dec-2022	0.042102	9.553190	14.318100	2.689460	34.929512	1.340520	0.024887	0.261448	0.036113	0.002394	0.001831	0.096489	0.000407	0.009378	0.004977	0.001386	0.013857
23-Dec-2022	0.042106	9.593850	14.378900	2.700940	35.078314	1.346210	0.024993	0.262568	0.036267	0.002405	0.001839	0.096905	0.000409	0.009418	0.004999	0.001392	0.013916
24-Dec-2022	0.042066	9.630580	14.434000	2.711270	35.212568	1.351370	0.025089	0.263570	0.036406	0.002414	0.001846	0.097273	0.000410	0.009454	0.005018	0.001397	0.013970
25-Dec-2022	0.042009	9.667860	14.489900	2.721760	35.348854	1.356600	0.025186	0.264589	0.036547	0.002423	0.001853	0.097649	0.000412	0.009491	0.005037	0.001402	0.014024
26-Dec-2022	0.041980	9.717800	14.564600	2.735860	35.531618	1.363600	0.025316	0.265964	0.036736	0.002436	0.001863	0.098159	0.000414	0.009540	0.005063	0.001410	0.014096

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
27-Dec-2022	0.041897	9.749910	14.612700	2.744900	35.649023	1.368110	0.025400	0.266844	0.036858	0.002444	0.001869	0.098485	0.000415	0.009572	0.005080	0.001414	0.014143
28-Dec-2022	0.041813	9.768990	14.641400	2.750250	35.718698	1.370790	0.025449	0.267362	0.036929	0.002448	0.001872	0.098675	0.000416	0.009590	0.005090	0.001417	0.014170
29-Dec-2022	0.041774	9.829500	14.732100	2.767270	35.939879	1.379290	0.025607	0.269019	0.037158	0.002464	0.001884	0.099286	0.000419	0.009650	0.005121	0.001426	0.014258
30-Dec-2022	0.041718	9.886280	14.817100	2.783270	36.147547	1.387260	0.025755	0.270577	0.037373	0.002478	0.001895	0.099863	0.000421	0.009705	0.005151	0.001434	0.014341
31-Dec-2022	0.041667	9.939500	14.896900	2.798250	36.342125	1.394730	0.025894	0.272035	0.037574	0.002491	0.001905	0.100402	0.000423	0.009758	0.005179	0.001442	0.014418
1-Jan-2023	0.041662	10.019000	15.016100	2.820630	36.632797	1.405890	0.026101	0.274212	0.037874	0.002511	0.001920	0.101206	0.000427	0.009836	0.005220	0.001453	0.014533
2-Jan-2023	0.041635	10.088500	15.120200	2.840190	36.886887	1.415650	0.026283	0.276115	0.038137	0.002529	0.001934	0.101909	0.000430	0.009904	0.005256	0.001463	0.014634
3-Jan-2023	0.041605	10.084800	15.114700	2.839130	36.873283	1.415130	0.026273	0.276013	0.038122	0.002528	0.001933	0.101871	0.000430	0.009900	0.005254	0.001463	0.014629
4-Jan-2023	0.041586	10.121000	15.168900	2.849310	37.005596	1.420210	0.026367	0.277005	0.038259	0.002537	0.001940	0.102238	0.000431	0.009936	0.005273	0.001468	0.014681
5-Jan-2023	0.041559	10.158500	15.225100	2.859910	37.142884	1.425480	0.026466	0.278040	0.038401	0.002546	0.001947	0.102622	0.000433	0.009973	0.005293	0.001474	0.014736
6-Jan-2023	0.041510	10.188000	15.269300	2.868180	37.250601	1.429620	0.026542	0.278844	0.038512	0.002554	0.001953	0.102918	0.000434	0.010002	0.005308	0.001478	0.014778
7-Jan-2023	0.041481	10.232000	15.335300	2.880580	37.411532	1.435800	0.026657	0.280050	0.038679	0.002565	0.001961	0.103364	0.000436	0.010045	0.005331	0.001484	0.014842
8-Jan-2023	0.041468	10.269600	15.391500	2.891190	37.549112	1.441070	0.026756	0.281088	0.038821	0.002574	0.001968	0.103751	0.000437	0.010082	0.005351	0.001490	0.014897
9-Jan-2023	0.041441	10.299500	15.436400	2.899600	37.658404	1.445280	0.026834	0.281905	0.038934	0.002582	0.001974	0.104052	0.000439	0.010111	0.005366	0.001494	0.014940
10-Jan-2023	0.041394	10.344700	15.504000	2.912300	37.823567	1.451610	0.026951	0.283142	0.039105	0.002593	0.001983	0.104509	0.000441	0.010156	0.005390	0.001501	0.015006
11-Jan-2023	0.041388	10.383400	15.562000	2.923230	37.965211	1.457040	0.027053	0.284209	0.039251	0.002603	0.001990	0.104905	0.000442	0.010194	0.005410	0.001506	0.015062
12-Jan-2023	0.041368	10.267700	15.388200	2.890810	37.542802	1.440800	0.026754	0.281071	0.038816	0.002574	0.001968	0.103758	0.000437	0.010081	0.005350	0.001489	0.014894
13-Jan-2023	0.041324	10.286000	15.415700	2.895880	37.609376	1.443370	0.026800	0.281561	0.038884	0.002579	0.001972	0.103936	0.000438	0.010098	0.005359	0.001492	0.014920
14-Jan-2023	0.041319	10.311400	15.454100	2.902920	37.701790	1.446950	0.026865	0.282237	0.038978	0.002585	0.001976	0.104178	0.000439	0.010123	0.005372	0.001496	0.014957
15-Jan-2023	0.041297	10.373400	15.546900	2.920460	37.928834	1.455650	0.027028	0.283949	0.039214	0.002601	0.001988	0.104815	0.000442	0.010184	0.005405	0.001505	0.015047
16-Jan-2023	0.041277	10.412200	15.604700	2.931490	38.071139	1.461070	0.027130	0.285030	0.039362	0.002610	0.001996	0.105222	0.000443	0.010222	0.005425	0.001510	0.015103
17-Jan-2023	0.041221	10.432800	15.636100	2.937140	38.145844	1.463990	0.027181	0.285562	0.039438	0.002615	0.002000	0.105405	0.000444	0.010242	0.005436	0.001513	0.015133
18-Jan-2023	0.041212	10.508900	15.750200	2.958560	38.424073	1.474670	0.027380	0.287645	0.039725	0.002634	0.002014	0.106174	0.000448	0.010317	0.005475	0.001524	0.015244
19-Jan-2023	0.041200	10.592900	15.876000	2.982190	38.731130	1.486450	0.027598	0.289942	0.040043	0.002655	0.002030	0.107021	0.000451	0.010399	0.005519	0.001537	0.015366
20-Jan-2023	0.041180	10.679300	16.005600	3.006520	39.047061	1.498580	0.027823	0.292306	0.040369	0.002677	0.002047	0.107894	0.000455	0.010484	0.005564	0.001549	0.015491
21-Jan-2023	0.041132	10.790700	16.172600	3.037820	39.454121	1.514210	0.028113	0.295345	0.040790	0.002705	0.002068	0.109012	0.000460	0.010593	0.005622	0.001565	0.015653
22-Jan-2023	0.041115	10.911200	16.353100	3.071770	39.894815	1.531120	0.028427	0.298650	0.041246	0.002735	0.002091	0.110235	0.000465	0.010712	0.005685	0.001583	0.015827
23-Jan-2023	0.041105	11.000000	16.486200	3.096810	40.219664	1.543590	0.028659	0.301088	0.041582	0.002758	0.002108	0.111137	0.000469	0.010799	0.005731	0.001596	0.015956
24-Jan-2023	0.041067	11.097300	16.631900	3.124230	40.575537	1.557240	0.028913	0.303758	0.041950	0.002782	0.002127	0.112125	0.000473	0.010895	0.005782	0.001610	0.016097
25-Jan-2023	0.041029	11.185000	16.763100	3.148940	40.896280	1.569530	0.029142	0.306165	0.042282	0.002804	0.002144	0.113017	0.000476	0.010981	0.005828	0.001622	0.016224
26-Jan-2023	0.041013	11.229700	16.830200	3.161510	41.059659	1.575810	0.029259	0.307387	0.042450	0.002815	0.002152	0.113467	0.000478	0.011025	0.005851	0.001629	0.016289
27-Jan-2023	0.041001	11.247300	16.856900	3.166410	41.123784	1.578300	0.029304	0.307857	0.042516	0.002820	0.002156	0.113636	0.000479	0.011042	0.005860	0.001631	0.016315
28-Jan-2023	0.040996	11.300100	16.936100	3.181240	41.316696	1.585720	0.029441	0.309296	0.042715	0.002833	0.002166	0.114164	0.000481	0.011094	0.005888	0.001639	0.016392
29-Jan-2023	0.040980	11.356600	17.020800	3.197110	41.523129	1.593640	0.029588	0.310838	0.042928	0.002847	0.002176	0.114733	0.000484	0.011149	0.005917	0.001647	0.016473
30-Jan-2023	0.040966	11.414900	17.108200	3.213530	41.736322	1.601830	0.029740	0.312436	0.043149	0.002862	0.002188	0.115322	0.000486	0.011206	0.005947	0.001656	0.016558
31-Jan-2023	0.040958	11.490400	17.221400	3.234780	42.012353	1.612420	0.029936	0.314502	0.043434	0.002881	0.002202	0.116085	0.000489	0.011280	0.005987	0.001667	0.016668
1-Feb-2023	0.040949	11.567800	17.337300	3.256560	42.295311	1.623280	0.030138	0.316619	0.043726	0.002900	0.002217	0.116866	0.000493	0.011356	0.006027	0.001678	0.016780
2-Feb-2023	0.040936	11.636600	17.440500	3.275940	42.546911	1.632940	0.030317	0.318504	0.043986	0.002917	0.002230	0.117563	0.000496	0.011424	0.006063	0.001688	0.016880
3-Feb-2023	0.040925	11.691800	17.523200	3.291470	42.748698	1.640680	0.030461	0.320015	0.044195	0.002931	0.002241	0.118121	0.000498	0.011478	0.006092	0.001696	0.016960
4-Feb-2023	0.040915	11.736400	17.590000	3.304020	42.911745	1.646940	0.030577	0.321236	0.044363	0.002942	0.002249	0.118572	0.000500	0.011522	0.006115	0.001702	0.017024
5-Feb-2023	0.040906	11.781100	17.657000	3.316610	43.075207	1.653220	0.030694	0.322460	0.044532	0.002953	0.002258	0.119024	0.000502	0.011566	0.006138	0.001709	0.017089
6-Feb-2023	0.040891	11.611100	17.402300	3.268750	42.453629	1.629370	0.030251	0.317807	0.043890	0.002911	0.002225	0.117306	0.000495	0.011399	0.006050	0.001684	0.016843
7-Feb-2023	0.040882	11.637500	17.442000	3.276180	42.550147	1.633080	0.030320	0.318530	0.043990	0.002917	0.002230	0.117572	0.000496	0.011425	0.006063	0.001688	0.016881
8-Feb-2023	0.040874	11.669700	17.490100	3.285230	42.667818	1.637590	0.030403	0.319409	0.044111	0.002926	0.002236	0.117897	0.000497	0.011456	0.006080	0.001693	0.016928
9-Feb-2023	0.040872	11.706200	17.544800	3.295490	42.801209	1.642720	0.030498	0.320408	0.044249	0.002935	0.002243	0.118265	0.000499	0.011492	0.006099	0.001698	0.016981
10-Feb-2023	0.040869	11.742000	17.598500	3.305560	42.932070	1.647740	0.030592	0.321386	0.044384	0.002944	0.002250	0.118626	0.000500	0.011527	0.006118	0.001703	0.017033
11-Feb-2023	0.040862	11.784400	17.662200	3.317510	43.087153	1.653700	0.030702	0.322548	0.044544	0.002954	0.002258	0.119055	0.000502	0.011569	0.006140	0.001709	0.017094
12-Feb-2023	0.040857	11.736300	17.590100	3.303950	42.911207	1.646950	0.030577	0.321230	0.044362	0.002942	0.002249	0.118568	0.000500	0.011522	0.006115	0.001702	0.017024
13-Feb-2023	0.040854	11.790100	17.670800	3.319100	43.107934	1.654510	0.030717	0.322704	0.044566	0.002956	0.002259	0.119112	0.000502	0.011574	0.006143	0.001710	0.017102
14-Feb-2023	0.040849	11.844300	17.751900	3.334340	43.306029	1.662100	0.030858	0.324185	0.044770	0.002969	0.002270	0.119659	0.000505	0.011628	0.006171	0.001718	0.017181
15-Feb-2023	0.040847	11.899100	17.834100	3.349770	43.506406	1.669800	0.031001	0.325685	0.044977	0.002983	0.002280	0.120212	0.000507	0.011681	0.006200	0.001726	0.017260
16-Feb-2023	0.040838	11.955500	17.918700	3.365650	43.712630	1.677720	0.031148	0.327229	0.045191	0.002997	0.002291	0.120782	0.000509	0.011737	0.006229	0.001734	0.017342

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
17-Feb-2023	0.040830	12.012600	18.004200	3.381720	43.921385	1.685730	0.031296	0.328791	0.045406	0.003011	0.002302	0.121358	0.000512	0.011793	0.006259	0.001743	0.017425
18-Feb-2023	0.040821	12.068500	18.088100	3.397450	44.125744	1.693580	0.031442	0.330321	0.045618	0.003026	0.002313	0.121923	0.000514	0.011848	0.006288	0.001751	0.017506
19-Feb-2023	0.040816	12.123100	18.169800	3.412800	44.325291	1.701240	0.031584	0.331812	0.045824	0.003039	0.002323	0.122473	0.000516	0.011901	0.006316	0.001759	0.017585
20-Feb-2023	0.040811	12.174300	18.246600	3.427200	44.512437	1.708420	0.031717	0.333212	0.046017	0.003052	0.002333	0.122989	0.000519	0.011951	0.006343	0.001766	0.017660
21-Feb-2023	0.040807	12.222400	18.318700	3.440720	44.688218	1.715170	0.031842	0.334527	0.046198	0.003064	0.002342	0.123474	0.000521	0.011999	0.006368	0.001773	0.017729
22-Feb-2023	0.040803	12.269300	18.389100	3.453920	44.859685	1.721760	0.031965	0.335810	0.046376	0.003076	0.002351	0.123947	0.000523	0.012045	0.006393	0.001780	0.017798
23-Feb-2023	0.040802	12.317200	18.460900	3.467410	45.034843	1.728490	0.032089	0.337121	0.046557	0.003088	0.002360	0.124430	0.000525	0.012092	0.006418	0.001787	0.017867
24-Feb-2023	0.040801	12.366200	18.534400	3.481200	45.213983	1.735370	0.032217	0.338462	0.046742	0.003100	0.002370	0.124925	0.000527	0.012140	0.006443	0.001794	0.017938
25-Feb-2023	0.040802	12.416300	18.609500	3.495290	45.397105	1.742400	0.032347	0.339832	0.046931	0.003113	0.002379	0.125431	0.000529	0.012189	0.006469	0.001801	0.018011
26-Feb-2023	0.040798	12.454000	18.666000	3.505910	45.534975	1.747690	0.032446	0.340864	0.047074	0.003122	0.002387	0.125812	0.000531	0.012226	0.006489	0.001807	0.018066
27-Feb-2023	0.040796	12.518200	18.762200	3.523970	45.769654	1.756700	0.032613	0.342620	0.047316	0.003138	0.002399	0.126460	0.000533	0.012289	0.006522	0.001816	0.018159
28-Feb-2023	0.040791	12.581000	18.856400	3.541650	45.999272	1.765520	0.032777	0.344339	0.047553	0.003154	0.002411	0.127094	0.000536	0.012351	0.006555	0.001825	0.018250
1-Mar-2023	0.040786	12.654000	18.965800	3.562190	46.266136	1.775760	0.032967	0.346336	0.047829	0.003172	0.002425	0.127831	0.000539	0.012422	0.006593	0.001836	0.018356
2-Mar-2023	0.040782	12.732900	19.084000	3.584400	46.554611	1.786830	0.033172	0.348495	0.048127	0.003192	0.002440	0.128628	0.000542	0.012500	0.006634	0.001847	0.018470
3-Mar-2023	0.040779	12.809900	19.199500	3.606080	46.836158	1.797640	0.033373	0.350602	0.048418	0.003211	0.002455	0.129405	0.000546	0.012575	0.006674	0.001858	0.018582
4-Mar-2023	0.040778	12.884900	19.311900	3.627190	47.110364	1.808170	0.033568	0.352655	0.048702	0.003230	0.002469	0.130162	0.000549	0.012649	0.006713	0.001869	0.018691
5-Mar-2023	0.040775	12.958900	19.422800	3.648010	47.380878	1.818550	0.033761	0.354679	0.048981	0.003249	0.002483	0.130909	0.000552	0.012722	0.006752	0.001880	0.018798
6-Mar-2023	0.040773	13.025600	19.522800	3.666780	47.624723	1.827920	0.033935	0.356504	0.049234	0.003265	0.002496	0.131582	0.000555	0.012787	0.006787	0.001889	0.018895
7-Mar-2023	0.040772	13.088400	19.617000	3.684460	47.854341	1.836730	0.034098	0.358223	0.049471	0.003281	0.002508	0.132216	0.000558	0.012849	0.006820	0.001899	0.018986
8-Mar-2023	0.040767	13.152800	19.713400	3.702560	48.089684	1.845760	0.034266	0.359982	0.049714	0.003297	0.002520	0.132866	0.000560	0.012912	0.006853	0.001908	0.019079
9-Mar-2023	0.040764	13.220400	19.814800	3.721580	48.336805	1.855250	0.034442	0.361831	0.049969	0.003314	0.002533	0.133548	0.000563	0.012978	0.006888	0.001918	0.019177
10-Mar-2023	0.040759	13.289900	19.919000	3.741140	48.590895	1.865010	0.034623	0.363733	0.050232	0.003332	0.002547	0.134249	0.000566	0.013046	0.006924	0.001928	0.019278
11-Mar-2023	0.040755	13.358300	20.021500	3.760390	48.840961	1.874610	0.034801	0.365604	0.050490	0.003349	0.002560	0.134940	0.000569	0.013114	0.006960	0.001938	0.019377
12-Mar-2023	0.040753	13.424500	20.120800	3.779030	49.083022	1.883900	0.034973	0.367415	0.050740	0.003365	0.002572	0.135608	0.000572	0.013179	0.006995	0.001947	0.019473
13-Mar-2023	0.040750	13.484900	20.211300	3.796010	49.303764	1.892370	0.035130	0.369066	0.050968	0.003381	0.002584	0.136217	0.000574	0.013238	0.007026	0.001956	0.019561
14-Mar-2023	0.040748	13.542300	20.297400	3.812170	49.513639	1.900440	0.035280	0.370637	0.051185	0.003395	0.002595	0.136796	0.000577	0.013294	0.007056	0.001964	0.019644
15-Mar-2023	0.040746	13.602900	20.388300	3.829220	49.735169	1.908940	0.035438	0.372294	0.051414	0.003410	0.002607	0.137407	0.000579	0.013354	0.007088	0.001973	0.019732
16-Mar-2023	0.040745	13.664400	20.480400	3.846510	49.959935	1.917570	0.035598	0.373975	0.051646	0.003425	0.002618	0.138027	0.000582	0.013414	0.007120	0.001982	0.019821
17-Mar-2023	0.040743	13.724800	20.571000	3.863520	50.180801	1.926060	0.035755	0.375628	0.051875	0.003441	0.002630	0.138637	0.000585	0.013473	0.007151	0.001991	0.019909
18-Mar-2023	0.040742	13.783600	20.659100	3.880050	50.395695	1.934300	0.035908	0.377235	0.052097	0.003455	0.002641	0.139229	0.000587	0.013531	0.007182	0.001999	0.019994
19-Mar-2023	0.040741	13.840400	20.744300	3.896030	50.603330	1.942280	0.036056	0.378789	0.052311	0.003470	0.002652	0.139802	0.000590	0.013587	0.007211	0.002008	0.020077
20-Mar-2023	0.040740	13.894100	20.824900	3.911160	50.799725	1.949820	0.036196	0.380259	0.052514	0.003483	0.002662	0.140345	0.000592	0.013639	0.007239	0.002015	0.020155
21-Mar-2023	0.040739	13.955400	20.916800	3.928410	51.023826	1.958430	0.036355	0.381936	0.052746	0.003498	0.002674	0.140963	0.000594	0.013700	0.007271	0.002024	0.020244
22-Mar-2023	0.040739	14.047400	21.054600	3.954290	51.360124	1.971340	0.036595	0.384452	0.053093	0.003521	0.002692	0.141891	0.000598	0.013790	0.007319	0.002038	0.020377
23-Mar-2023	0.040738	14.147700	21.205000	3.982520	51.726824	1.985410	0.036856	0.387196	0.053472	0.003547	0.002711	0.142904	0.000603	0.013888	0.007372	0.002052	0.020522
24-Mar-2023	0.040736	14.240700	21.344400	4.008710	52.066896	1.998470	0.037099	0.389742	0.053824	0.003570	0.002729	0.143844	0.000607	0.013980	0.007420	0.002066	0.020657
25-Mar-2023	0.040736	14.324100	21.469400	4.032170	52.371754	2.010170	0.037316	0.392023	0.054139	0.003591	0.002745	0.144685	0.000610	0.014061	0.007463	0.002078	0.020778
26-Mar-2023	0.040736	14.397600	21.579600	4.052860	52.640485	2.020490	0.037507	0.394035	0.054417	0.003609	0.002759	0.145428	0.000613	0.014134	0.007502	0.002088	0.020885
27-Mar-2023	0.040735	14.475400	21.696200	4.074760	52.924935	2.031410	0.037710	0.396163	0.054711	0.003629	0.002774	0.146213	0.000617	0.014210	0.007542	0.002100	0.020998
28-Mar-2023	0.040735	14.555200	21.815800	4.097210	53.216645	2.042610	0.037918	0.398347	0.055012	0.003649	0.002789	0.147018	0.000620	0.014288	0.007584	0.002111	0.021114
29-Mar-2023	0.040735	14.634200	21.934300	4.119450	53.505493	2.053690	0.038123	0.400508	0.055311	0.003669	0.002804	0.147816	0.000623	0.014366	0.007625	0.002123	0.021228
30-Mar-2023	0.040734	14.712200	22.051200	4.141390	53.790607	2.064640	0.038326	0.402642	0.055605	0.003688	0.002819	0.148603	0.000627	0.014442	0.007666	0.002134	0.021341
31-Mar-2023	0.040734	14.783800	22.158600	4.161560	54.052453	2.074690	0.038513	0.404602	0.055876	0.003706	0.002833	0.149326	0.000630	0.014513	0.007703	0.002145	0.021445
1-Apr-2023	0.040734	14.848100	22.254900	4.179650	54.287504	2.083720	0.038680	0.406361	0.056119	0.003722	0.002845	0.149975	0.000633	0.014576	0.007736	0.002154	0.021538
2-Apr-2023	0.040733	14.785200	22.160700	4.161940	54.057513	2.074890	0.038517	0.404639	0.055881	0.003706	0.002833	0.149340	0.000630	0.014514	0.007704	0.002145	0.021447
3-Apr-2023	0.040733	14.564500	21.829800	4.099790	53.250492	2.043910	0.037941	0.398596	0.055047	0.003651	0.002791	0.147109	0.000620	0.014297	0.007589	0.002113	0.021127
4-Apr-2023	0.040732	14.349700	21.507900	4.039320	52.465121	2.013770	0.037382	0.392716	0.054235	0.003597	0.002750	0.144939	0.000611	0.014086	0.007477	0.002082	0.020815
5-Apr-2023	0.040732	14.185400	21.261700	3.993070	51.864406	1.990720	0.036954	0.388220	0.053614	0.003556	0.002718	0.143279	0.000604	0.013925	0.007391	0.002058	0.020577
6-Apr-2023	0.040732	14.068800	21.086900	3.960250	51.438103	1.974360	0.036650	0.385028	0.053173	0.003527	0.002696	0.142101	0.000599	0.013811	0.007330	0.002041	0.020408
7-Apr-2023	0.040732	13.985300	20.961800	3.936750	51.132831	1.962640	0.036432	0.382743	0.052858	0.003506	0.002680	0.141257	0.000596	0.013729	0.007287	0.002029	0.020287
8-Apr-2023	0.040732	13.922400	20.867500	3.919030	50.902798	1.953810	0.036269	0.381021	0.052620	0.003490	0.002668	0.140622	0.000593	0.013667	0.007254	0.002020	0.020196
9-Apr-2023	0.040732	13.873500	20.794300	3.905280	50.724073	1.946950	0.036141	0.379684	0.052435	0.003478	0.002658	0.140128	0.000591	0.013619	0.007229	0.002012	0.020125

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Apr-2023	0.040731	13.834600	20.735900	3.894310	50.581765	1.941490	0.036040	0.378618	0.052288	0.003468	0.002651	0.139734	0.000589	0.013581	0.007208	0.002007	0.020068
11-Apr-2023	0.040731	13.803700	20.689700	3.885620	50.468822	1.937160	0.035959	0.377772	0.052171	0.003460	0.002645	0.139422	0.000588	0.013550	0.007192	0.002002	0.020024
12-Apr-2023	0.040731	13.792600	20.672900	3.882470	50.428134	1.935590	0.035930	0.377467	0.052129	0.003458	0.002643	0.139309	0.000588	0.013539	0.007187	0.002001	0.020007
13-Apr-2023	0.040731	13.775400	20.647200	3.877630	50.365254	1.933180	0.035885	0.376996	0.052064	0.003453	0.002639	0.139135	0.000587	0.013523	0.007178	0.001998	0.019982
14-Apr-2023	0.040731	13.761900	20.627000	3.873850	50.315979	1.931290	0.035850	0.376628	0.052013	0.003450	0.002637	0.138999	0.000586	0.013509	0.007171	0.001996	0.019963
15-Apr-2023	0.040731	13.752400	20.612700	3.871160	50.281180	1.929950	0.035825	0.376366	0.051977	0.003447	0.002635	0.138903	0.000586	0.013500	0.007166	0.001995	0.019949
16-Apr-2023	0.040731	13.738600	20.592100	3.867290	50.230784	1.928030	0.035790	0.375990	0.051925	0.003444	0.002632	0.138764	0.000585	0.013487	0.007158	0.001993	0.019929
17-Apr-2023	0.040731	13.728500	20.576900	3.864440	50.193828	1.926600	0.035763	0.375713	0.051887	0.003442	0.002631	0.138662	0.000585	0.013477	0.007153	0.001991	0.019914
18-Apr-2023	0.040731	13.715500	20.557400	3.860780	50.146296	1.924780	0.035729	0.375357	0.051838	0.003438	0.002628	0.138530	0.000584	0.013464	0.007146	0.001990	0.019896
19-Apr-2023	0.040731	13.704100	20.540300	3.857560	50.104570	1.923180	0.035700	0.375044	0.051794	0.003435	0.002626	0.138415	0.000584	0.013453	0.007140	0.001988	0.019879
20-Apr-2023	0.040731	13.694300	20.525700	3.854820	50.068816	1.921810	0.035674	0.374777	0.051758	0.003433	0.002624	0.138316	0.000583	0.013443	0.007135	0.001986	0.019865
21-Apr-2023	0.040731	13.686900	20.514600	3.852720	50.041690	1.920760	0.035655	0.374574	0.051729	0.003431	0.002623	0.138241	0.000583	0.013436	0.007131	0.001985	0.019854
22-Apr-2023	0.040731	13.680100	20.504400	3.850820	50.016886	1.919820	0.035637	0.374389	0.051704	0.003429	0.002621	0.138173	0.000583	0.013429	0.007128	0.001984	0.019844
23-Apr-2023	0.040731	13.672800	20.493500	3.848770	49.990216	1.918790	0.035618	0.374190	0.051676	0.003428	0.002620	0.138100	0.000582	0.013422	0.007124	0.001983	0.019834
24-Apr-2023	0.040731	13.666700	20.484300	3.847030	49.967819	1.917930	0.035602	0.374021	0.051653	0.003426	0.002619	0.138037	0.000582	0.013416	0.007121	0.001982	0.019825
25-Apr-2023	0.040731	13.662900	20.478600	3.845970	49.953966	1.917400	0.035592	0.373918	0.051639	0.003425	0.002618	0.137999	0.000582	0.013412	0.007119	0.001982	0.019819
26-Apr-2023	0.040731	13.658600	20.472100	3.844750	49.938205	1.916790	0.035581	0.373799	0.051622	0.003424	0.002617	0.137955	0.000582	0.013408	0.007117	0.001981	0.019813
27-Apr-2023	0.040731	13.654200	20.465600	3.843520	49.922153	1.916180	0.035570	0.373679	0.051606	0.003423	0.002616	0.137911	0.000582	0.013404	0.007114	0.001981	0.019807
28-Apr-2023	0.040731	13.649300	20.458200	3.842130	49.904193	1.915480	0.035557	0.373544	0.051587	0.003422	0.002615	0.137861	0.000581	0.013399	0.007112	0.001980	0.019799
29-Apr-2023	0.040731	13.623600	20.419700	3.834900	49.810247	1.911880	0.035490	0.372841	0.051490	0.003415	0.002610	0.137602	0.000580	0.013374	0.007098	0.001976	0.019762
30-Apr-2023	0.040754	13.621100	20.415900	3.834200	49.801122	1.911530	0.035483	0.372773	0.051481	0.003415	0.002610	0.137577	0.000580	0.013371	0.007097	0.001976	0.019759
1-May-2023	0.041006	13.618800	20.412500	3.833560	49.792744	1.911210	0.035477	0.372710	0.051472	0.003414	0.002609	0.137554	0.000580	0.013369	0.007096	0.001976	0.019755
2-May-2023	0.042430	13.617200	20.410100	3.833100	49.786854	1.910980	0.035473	0.372666	0.051466	0.003414	0.002609	0.137537	0.000580	0.013367	0.007095	0.001975	0.019753
3-May-2023	0.048059	13.609500	20.398500	3.830930	49.758691	1.909900	0.035453	0.372455	0.051437	0.003412	0.002608	0.137459	0.000580	0.013360	0.007091	0.001974	0.019742
4-May-2023	0.055845	13.607200	20.395200	3.830300	49.750354	1.909590	0.035447	0.372394	0.051428	0.003411	0.002607	0.137437	0.000580	0.013358	0.007090	0.001974	0.019739
5-May-2023	0.061042	13.604100	20.390500	3.829430	49.739030	1.909150	0.035439	0.372309	0.051417	0.003410	0.002607	0.137406	0.000580	0.013354	0.007088	0.001973	0.019734
6-May-2023	0.067607	13.581800	20.357000	3.823140	49.657445	1.906010	0.035381	0.371698	0.051332	0.003405	0.002602	0.137180	0.000579	0.013333	0.007077	0.001970	0.019702
7-May-2023	0.073456	13.498800	20.232700	3.799790	49.354039	1.894370	0.035165	0.369427	0.051019	0.003384	0.002586	0.136342	0.000575	0.013251	0.007033	0.001958	0.019581
8-May-2023	0.078189	13.457600	20.171000	3.788190	49.203394	1.888590	0.035058	0.368300	0.050863	0.003374	0.002579	0.135926	0.000573	0.013211	0.007012	0.001952	0.019522
9-May-2023	0.082860	13.404400	20.091200	3.773210	49.008866	1.881120	0.034919	0.366843	0.050662	0.003360	0.002568	0.135388	0.000571	0.013158	0.006984	0.001944	0.019444
10-May-2023	0.087612	13.351600	20.012000	3.758340	48.815789	1.873710	0.034781	0.365397	0.050462	0.003347	0.002558	0.134855	0.000569	0.013107	0.006957	0.001937	0.019368
11-May-2023	0.096964	13.308600	19.947500	3.746230	48.658549	1.867670	0.034669	0.364220	0.050300	0.003336	0.002550	0.134420	0.000567	0.013064	0.006934	0.001931	0.019305
12-May-2023	0.101045	13.241700	19.847300	3.727410	48.413999	1.858290	0.034495	0.362390	0.050047	0.003319	0.002537	0.133745	0.000564	0.012999	0.006899	0.001921	0.019208
13-May-2023	0.112588	13.194300	19.776200	3.714070	48.240707	1.851640	0.034372	0.361093	0.049868	0.003308	0.002528	0.133266	0.000562	0.012952	0.006875	0.001914	0.019140
14-May-2023	0.116148	13.066600	19.584800	3.678110	47.773757	1.833710	0.034039	0.357597	0.049385	0.003276	0.002504	0.131976	0.000557	0.012827	0.006808	0.001895	0.018954
15-May-2023	0.123772	12.988300	19.467500	3.656080	47.487523	1.822720	0.033835	0.355455	0.049089	0.003256	0.002489	0.131185	0.000553	0.012750	0.006767	0.001884	0.018841
16-May-2023	0.136843	12.894500	19.326900	3.629670	47.144548	1.809560	0.033591	0.352887	0.048735	0.003232	0.002471	0.130238	0.000549	0.012658	0.006719	0.001870	0.018705
17-May-2023	0.150699	12.765200	19.133000	3.593270	46.671790	1.791410	0.033254	0.349347	0.048246	0.003200	0.002446	0.128932	0.000544	0.012531	0.006651	0.001852	0.018517
18-May-2023	0.151852	12.684300	19.011800	3.570520	46.376098	1.780060	0.033043	0.347135	0.047941	0.003180	0.002430	0.128115	0.000540	0.012452	0.006609	0.001840	0.018400
19-May-2023	0.154736	12.567300	18.836500	3.537580	45.948303	1.763640	0.032738	0.343933	0.047498	0.003150	0.002408	0.126934	0.000535	0.012337	0.006548	0.001823	0.018230
20-May-2023	0.161120	12.400800	18.586800	3.490710	45.339541	1.740260	0.032304	0.339374	0.046869	0.003109	0.002376	0.125252	0.000528	0.012173	0.006461	0.001799	0.017988
21-May-2023	0.156215	12.107900	18.147700	3.408280	44.268723	1.699130	0.031541	0.331354	0.045764	0.003035	0.002320	0.122296	0.000516	0.011886	0.006309	0.001756	0.017563
22-May-2023	0.156424	11.846900	17.756500	3.334820	43.314498	1.662510	0.030861	0.324212	0.044778	0.002970	0.002270	0.119660	0.000505	0.011630	0.006173	0.001718	0.017185
23-May-2023	0.159851	11.634500	17.438100	3.275040	42.537961	1.632680	0.030307	0.318394	0.043976	0.002916	0.002229	0.117516	0.000496	0.011421	0.006062	0.001688	0.016877
24-May-2023	0.165399	11.324600	16.973500	3.187840	41.405051	1.589170	0.029500	0.309910	0.042807	0.002839	0.002170	0.114389	0.000482	0.011117	0.005901	0.001643	0.016427
25-May-2023	0.169439	11.025000	16.524400	3.103540	40.309803	1.547100	0.028719	0.301709	0.041676	0.002764	0.002113	0.111366	0.000470	0.010823	0.005744	0.001599	0.015992
26-May-2023	0.173480	10.798100	16.184200	3.039700	39.480340	1.515240	0.028128	0.295496	0.040820	0.002707	0.002069	0.109076	0.000460	0.010601	0.005626	0.001566	0.015663
27-May-2023	0.178645	10.510900	15.753600	2.958880	38.430385	1.474910	0.027379	0.287632	0.039736	0.002635	0.002014	0.106177	0.000448	0.010319	0.005477	0.001525	0.015246
28-May-2023	0.186799	10.320100	15.467500	2.905210	37.732944	1.448100	0.026882	0.282407	0.039017	0.002587	0.001978	0.104254	0.000440	0.010132	0.005377	0.001497	0.014970
29-May-2023	0.197805	10.224800	15.324600	2.878410	37.384618	1.434700	0.026633	0.279796	0.038658	0.002563	0.001960	0.103294	0.000436	0.010038	0.005327	0.001483	0.014831
30-May-2023	0.217496	10.165400	15.235400	2.861700	37.167484	1.426360	0.026479	0.278174	0.038433	0.002548	0.001948	0.102697	0.000433	0.009980	0.005296	0.001475	0.014745
31-May-2023	0.230939	10.067900	15.089000	2.834390	36.811564	1.412660	0.026227	0.275526	0.038067	0.002524	0.001930	0.101728	0.000429	0.009885	0.005246	0.001460	0.014604

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Jun-2023	0.293034	9.967770	14.938500	2.806300	36.445865	1.398570	0.025967	0.272796	0.037690	0.002499	0.001911	0.100729	0.000425	0.009787	0.005193	0.001446	0.014458
2-Jun-2023	0.334865	9.856630	14.767000	2.776270	36.044685	1.382410	0.025691	0.269962	0.037356	0.002469	0.001892	0.099723	0.000420	0.009685	0.005135	0.001430	0.014300
3-Jun-2023	0.396380	9.718820	14.551600	2.739790	35.550349	1.362140	0.025362	0.266607	0.045907	0.002433	0.001905	0.098552	0.000413	0.009563	0.005062	0.001411	0.014106
4-Jun-2023	0.539356	9.577910	14.318800	2.710860	35.079363	1.340170	0.025154	0.265096	0.040108	0.002392	0.001881	0.098383	0.000406	0.009491	0.004986	0.001393	0.013927
5-Jun-2023	0.569675	9.412430	14.041100	2.670140	34.498474	1.313910	0.024820	0.262099	0.039932	0.002342	0.001856	0.097405	0.000398	0.009372	0.004897	0.001370	0.013699
6-Jun-2023	0.626852	9.259170	13.795300	2.627860	33.941675	1.290650	0.024430	0.258091	0.037693	0.002300	0.001831	0.096041	0.000390	0.009228	0.004815	0.001349	0.013488
7-Jun-2023	0.701984	9.068570	13.490100	2.579330	33.265900	1.261680	0.024010	0.253971	0.037311	0.002247	0.001807	0.094671	0.000381	0.009074	0.004714	0.001322	0.013225
8-Jun-2023	0.775095	8.896110	13.202700	2.539430	32.670959	1.234150	0.023661	0.250620	0.037580	0.002195	0.001789	0.093631	0.000373	0.008950	0.004621	0.001299	0.012994
9-Jun-2023	0.856626	8.758830	12.980900	2.503910	32.181900	1.212740	0.023328	0.247440	0.037526	0.002156	0.001774	0.092659	0.000366	0.008833	0.004548	0.001280	0.012805
10-Jun-2023	0.973027	8.648570	12.795400	2.477940	31.799636	1.194750	0.023078	0.244757	0.037376	0.002123	0.001759	0.091875	0.000360	0.008746	0.004488	0.001266	0.012658
11-Jun-2023	1.119226	8.535010	12.607100	2.450610	31.403532	1.176530	0.022840	0.242278	0.037047	0.002090	0.001748	0.091200	0.000354	0.008665	0.004427	0.001250	0.012504
12-Jun-2023	1.340561	8.433410	12.436200	2.426790	31.051746	1.160070	0.022599	0.239781	0.036790	0.002059	0.001737	0.090516	0.000349	0.008582	0.004372	0.001237	0.012368
13-Jun-2023	1.527591	8.279800	12.175900	2.392720	30.527882	1.135270	0.022331	0.236878	0.036618	0.002013	0.001724	0.089762	0.000341	0.008490	0.004288	0.001217	0.012166
14-Jun-2023	1.673950	8.174050	11.987400	2.368750	30.165115	1.117090	0.022070	0.234948	0.036348	0.001980	0.001718	0.089109	0.000335	0.008410	0.004230	0.001203	0.012030
15-Jun-2023	1.898479	8.070830	11.817100	2.343400	29.802984	1.100140	0.021825	0.232756	0.035883	0.001950	0.001707	0.088553	0.000330	0.008330	0.004175	0.001189	0.011885
16-Jun-2023	1.985916	7.954620	11.627800	2.314230	29.392685	1.081260	0.021509	0.227696	0.035577	0.001918	0.001686	0.087571	0.000324	0.008236	0.004112	0.001172	0.011720
17-Jun-2023	2.174846	7.818220	11.398300	2.281850	28.918754	1.059410	0.021231	0.224545	0.035641	0.001878	0.001673	0.086835	0.000317	0.008138	0.004039	0.001154	0.011536
18-Jun-2023	2.275441	7.688520	11.191800	2.248770	28.458669	1.038770	0.020955	0.221520	0.035368	0.001841	0.001660	0.086089	0.000311	0.008036	0.003970	0.001135	0.011352
19-Jun-2023	2.324165	7.562070	10.968900	2.220640	28.027084	1.019010	0.020738	0.218939	0.035488	0.001806	0.001649	0.085527	0.000304	0.007954	0.003901	0.001119	0.011190
20-Jun-2023	2.348949	7.434810	10.760700	2.189320	27.580340	0.998584	0.020477	0.216584	0.035652	0.001769	0.001640	0.084858	0.000298	0.007856	0.003832	0.001101	0.011014
21-Jun-2023	2.384959	7.308960	10.543500	2.160740	27.148400	0.978755	0.020290	0.213947	0.035766	0.001732	0.001629	0.084393	0.000291	0.007770	0.003764	0.001085	0.010850
22-Jun-2023	2.436053	7.176610	10.306700	2.131220	26.696359	0.958794	0.020110	0.211924	0.035765	0.001698	0.001621	0.083928	0.000284	0.007695	0.003692	0.001068	0.010678
23-Jun-2023	2.508038	7.062280	10.114600	2.108080	26.315587	0.939781	0.019881	0.209238	0.035892	0.001666	0.001610	0.083362	0.000278	0.007626	0.003629	0.001054	0.010543
24-Jun-2023	2.615221	6.966430	9.951470	2.085780	25.984418	0.924583	0.019690	0.207429	0.036090	0.001637	0.001601	0.082882	0.000273	0.007559	0.003577	0.001041	0.010414
25-Jun-2023	2.700140	6.887540	9.816270	2.063990	25.697698	0.912111	0.019536	0.205786	0.035975	0.001614	0.001595	0.082505	0.000269	0.007495	0.003536	0.001029	0.010291
26-Jun-2023	2.819122	6.775500	9.624760	2.038720	25.313872	0.894342	0.019333	0.203748	0.036041	0.001584	0.001588	0.082066	0.000263	0.007424	0.003476	0.001014	0.010139
27-Jun-2023	2.886654	6.684050	9.467170	2.019050	25.004521	0.879288	0.019159	0.202121	0.036192	0.001556	0.001581	0.081658	0.000258	0.007365	0.003426	0.001003	0.010025
28-Jun-2023	2.920126	6.589310	9.306790	1.994630	24.667393	0.863932	0.018962	0.199930	0.035982	0.001529	0.001571	0.081264	0.000253	0.007292	0.003375	0.000989	0.009886
29-Jun-2023	2.978839	6.479350	9.119240	1.969160	24.287938	0.846482	0.018760	0.198262	0.035897	0.001500	0.001565	0.081016	0.000247	0.007222	0.003316	0.000973	0.009734
30-Jun-2023	3.108360	6.384020	8.946490	1.952410	23.980922	0.830062	0.018607	0.196803	0.036018	0.001470	0.001558	0.080677	0.000242	0.007172	0.003261	0.000964	0.009636
1-Jul-2023	3.170018	6.276170	8.767610	1.922050	23.586598	0.814275	0.018477	0.194477	0.035072	0.001441	0.001545	0.080532	0.000236	0.007090	0.003207	0.000947	0.009471
2-Jul-2023	4.813173	5.026240	6.746690	1.594370	19.116137	0.627021	0.015980	0.170050	0.032497	0.001114	0.001383	0.075084	0.000177	0.006166	0.002563	0.000786	0.007861
3-Jul-2023	5.810106	5.064740	6.850500	1.583320	19.166768	0.636940	0.015691	0.167208	0.031415	0.001154	0.001368	0.074863	0.000182	0.006150	0.002596	0.000784	0.007837
4-Jul-2023	6.272014	5.227200	7.120320	1.617270	19.712236	0.663183	0.015962	0.170752	0.031553	0.001199	0.001368	0.073838	0.000190	0.006272	0.002683	0.000806	0.008061
5-Jul-2023	7.102045	5.362820	7.363660	1.636000	20.128010	0.690296	0.016308	0.174695	0.031603	0.001258	0.001366	0.076908	0.000198	0.006378	0.002768	0.000825	0.008250
6-Jul-2023	7.812423	5.413930	7.446530	1.648030	20.305171	0.699701	0.016472	0.175704	0.031550	0.001284	0.001370	0.075363	0.000201	0.006415	0.002796	0.000831	0.008306
7-Jul-2023	8.959641	5.661820	7.901790	1.689610	21.095379	0.744727	0.016902	0.180095	0.031826	0.001360	0.001375	0.075927	0.000216	0.006578	0.002942	0.000868	0.008678
8-Jul-2023	8.927146	6.051510	8.607040	1.749540	22.315226	0.814710	0.017585	0.186703	0.032308	0.001477	0.001387	0.077044	0.000240	0.006882	0.003180	0.000926	0.009258
9-Jul-2023	9.540547	6.234180	8.941900	1.780970	22.900782	0.847343	0.017888	0.189768	0.032392	0.001532	0.001390	0.077544	0.000251	0.006998	0.003286	0.000953	0.009529
10-Jul-2023	9.705223	6.202590	8.878100	1.779830	22.817207	0.840342	0.017825	0.189084	0.032254	0.001524	0.001392	0.077597	0.000248	0.006971	0.003264	0.000947	0.009466
11-Jul-2023	10.995729	6.267910	8.994780	1.793460	23.036440	0.851062	0.017917	0.189988	0.032192	0.001543	0.001395	0.077803	0.000252	0.007007	0.003300	0.000955	0.009554
12-Jul-2023	11.446682	6.458000	9.339950	1.823170	23.633440	0.886803	0.018316	0.194130	0.032431	0.001606	0.001399	0.078575	0.000264	0.007149	0.003415	0.000984	0.009840
13-Jul-2023	11.354039	5.905040	8.330340	1.740910	21.913952	0.785792	0.017329	0.184393	0.031513	0.001440	0.001388	0.077098	0.000230	0.006725	0.003077	0.000900	0.008998
14-Jul-2023	11.795394	5.891540	8.307690	1.739630	21.874972	0.782887	0.017276	0.183825	0.031424	0.001434	0.001387	0.076979	0.000229	0.006707	0.003067	0.000898	0.008976
15-Jul-2023	12.076761	5.956490	8.427810	1.750120	22.080350	0.794666	0.017381	0.184879	0.031456	0.001454	0.001388	0.077153	0.000233	0.006749	0.003106	0.000907	0.009074
16-Jul-2023	13.161731	6.055850	8.611420	1.765960	22.393681	0.813024	0.017557	0.186671	0.031539	0.001485	0.001390	0.077430	0.000240	0.006816	0.003165	0.000923	0.009226
17-Jul-2023	13.950294	6.391370	9.231000	1.820280	23.455164	0.875182	0.018168	0.192954	0.031843	0.001588	0.001397	0.079323	0.000261	0.007041	0.003365	0.000974	0.009740
18-Jul-2023	14.110388	6.672850	9.739560	1.862780	24.333034	0.927818	0.018755	0.198960	0.032265	0.001681	0.001403	0.079693	0.000278	0.007261	0.003537	0.001016	0.010165
19-Jul-2023	14.626712	6.706710	9.795250	1.867440	24.436773	0.935485	0.018913	0.200781	0.032394	0.001699	0.001404	0.080153	0.000279	0.007301	0.003559	0.001021	0.010213
20-Jul-2023	15.124002	6.441840	9.313720	1.827120	23.609355	0.886682	0.018407	0.195681	0.031950	0.001616	0.001398	0.079250	0.000263	0.007096	0.003398	0.000981	0.009812
21-Jul-2023	15.475955	6.941850	10.226400	1.902720	25.169200	0.977991	0.019303	0.204591	0.032673	0.001768	0.001408	0.080658	0.000294	0.007473	0.003702	0.001057	0.010569
22-Jul-2023	15.581706	6.553190	9.516980	1.844910	23.960655	0.908359	0.018670	0.198440	0.032025	0.001655	0.001400	0.079799	0.000270	0.007173	0.003465	0.000998	0.009980

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Jul-2023	16.009222	6.370520	9.183750	1.817290	23.390789	0.874822	0.018332	0.195111	0.031706	0.001600	0.001396	0.079382	0.000259	0.007034	0.003353	0.000970	0.009701
24-Jul-2023	16.052437	6.525170	9.468420	1.841270	23.875699	0.903020	0.018595	0.197713	0.031883	0.001647	0.001399	0.079711	0.000269	0.007143	0.003447	0.000994	0.009936
25-Jul-2023	14.913912	6.415890	9.271930	1.825080	23.536157	0.882385	0.018353	0.195229	0.031656	0.001611	0.001396	0.079223	0.000262	0.007053	0.003379	0.000977	0.009771
26-Jul-2023	14.568382	6.448060	9.331780	1.830250	23.637775	0.888318	0.018407	0.195763	0.031662	0.001621	0.001397	0.079316	0.000264	0.007073	0.003398	0.000982	0.009819
27-Jul-2023	14.541880	6.833340	10.037100	1.889510	24.843852	0.958903	0.019099	0.202719	0.032169	0.001738	0.001404	0.080407	0.000288	0.007355	0.003631	0.001040	0.010404
28-Jul-2023	13.960231	6.659290	9.719460	1.863370	24.301605	0.927582	0.018806	0.199864	0.031884	0.001688	0.001401	0.080016	0.000277	0.007222	0.003525	0.001014	0.010141
29-Jul-2023	13.364429	6.782770	9.946670	1.882940	24.690524	0.950338	0.019028	0.202122	0.032001	0.001726	0.001403	0.080377	0.000285	0.007308	0.003599	0.001033	0.010329
30-Jul-2023	13.874153	6.984530	10.317100	1.913750	25.321194	0.987070	0.019373	0.205559	0.032262	0.001786	0.001407	0.080874	0.000297	0.007454	0.003721	0.001063	0.010635
31-Jul-2023	14.081127	7.040830	10.422600	1.922940	25.499619	0.997163	0.019452	0.206336	0.032270	0.001803	0.001407	0.080971	0.000301	0.007488	0.003754	0.001072	0.010721
1-Aug-2023	14.680265	6.818890	10.018300	1.889800	24.808965	0.956598	0.019048	0.202277	0.031879	0.001736	0.001403	0.080380	0.000287	0.007315	0.003619	0.001038	0.010383
2-Aug-2023	14.836235	6.774220	9.940310	1.884560	24.675845	0.947502	0.018906	0.200755	0.031694	0.001723	0.001401	0.080245	0.000285	0.007267	0.003589	0.001032	0.010316
3-Aug-2023	14.882876	6.833620	10.048800	1.893880	24.862547	0.957799	0.018985	0.201472	0.031751	0.001742	0.001403	0.080438	0.000289	0.007310	0.003625	0.001041	0.010406
4-Aug-2023	15.520633	7.030930	10.409000	1.924400	25.480911	0.993912	0.019342	0.205062	0.032004	0.001804	0.001407	0.081113	0.000301	0.007455	0.003744	0.001071	0.010705
5-Aug-2023	15.406253	6.901760	10.175700	1.906010	25.082644	0.969591	0.019063	0.202229	0.031712	0.001765	0.001404	0.080743	0.000293	0.007347	0.003664	0.001051	0.010509
6-Aug-2023	15.508163	6.870680	10.119100	1.902180	24.989265	0.963564	0.018989	0.201464	0.031591	0.001758	0.001403	0.080757	0.000291	0.007318	0.003644	0.001046	0.010460
7-Aug-2023	15.709439	7.094260	10.529700	1.936740	25.689863	1.003790	0.019349	0.204998	0.031870	0.001825	0.001407	0.081323	0.000305	0.007478	0.003779	0.001080	0.010801
8-Aug-2023	15.635167	7.441320	11.164700	1.989860	26.775220	1.066950	0.019954	0.211021	0.032346	0.001930	0.001414	0.082274	0.000326	0.007735	0.003989	0.001133	0.011328
9-Aug-2023	15.761812	7.248340	10.818900	1.962550	26.180886	1.029930	0.019493	0.206258	0.031933	0.001869	0.001410	0.081580	0.000315	0.007569	0.003869	0.001104	0.011040
10-Aug-2023	15.885431	7.328580	10.963700	1.974260	26.429467	1.045050	0.019664	0.208006	0.032024	0.001894	0.001412	0.081854	0.000320	0.007633	0.003918	0.001116	0.011157
11-Aug-2023	16.089404	7.209060	10.748400	1.957600	26.062420	1.022060	0.019381	0.205058	0.031750	0.001858	0.001409	0.081521	0.000312	0.007530	0.003844	0.001098	0.010977
12-Aug-2023	15.640449	7.239210	10.798800	1.961530	26.153888	1.027130	0.019436	0.205514	0.031847	0.001870	0.001410	0.081784	0.000314	0.007563	0.003863	0.001102	0.011019
13-Aug-2023	15.324818	7.470890	11.230500	1.999570	26.889042	1.067550	0.019720	0.208194	0.031997	0.001939	0.001414	0.082273	0.000329	0.007709	0.004000	0.001138	0.011377
14-Aug-2023	15.146837	7.374500	11.029700	1.979760	26.566778	1.049820	0.019666	0.207404	0.032242	0.001917	0.001415	0.082631	0.000322	0.007704	0.003950	0.001121	0.011210
15-Aug-2023	14.928637	7.349610	11.000100	1.979700	26.504381	1.045350	0.019542	0.206352	0.031889	0.001907	0.001412	0.082247	0.000321	0.007638	0.003929	0.001118	0.011182
16-Aug-2023	15.082518	7.478290	11.240100	2.001680	26.916208	1.067460	0.019691	0.207744	0.031940	0.001947	0.001415	0.082631	0.000329	0.007714	0.004004	0.001138	0.011381
17-Aug-2023	14.768918	7.395490	11.090400	1.989470	26.659176	1.052320	0.019521	0.206049	0.031749	0.001922	0.001413	0.082390	0.000324	0.007646	0.003953	0.001125	0.011254
18-Aug-2023	14.772427	7.793950	11.823700	2.051920	27.911300	1.123940	0.020153	0.212262	0.032182	0.002042	0.001420	0.083411	0.000349	0.007925	0.004192	0.001186	0.011861
19-Aug-2023	13.277857	7.465980	11.218700	2.001150	26.883288	1.063940	0.019589	0.206604	0.031762	0.001946	0.001414	0.082709	0.000328	0.007694	0.003995	0.001136	0.011359
20-Aug-2023	13.031127	7.422590	11.143900	1.995780	26.752829	1.055160	0.019450	0.205150	0.031589	0.001931	0.001413	0.082474	0.000326	0.007647	0.003966	0.001129	0.011293
21-Aug-2023	12.759451	7.581250	11.435200	2.020720	27.251706	1.083410	0.019689	0.207448	0.031758	0.001979	0.001416	0.082927	0.000336	0.007758	0.004061	0.001153	0.011534
22-Aug-2023	12.509735	7.825530	11.879600	2.058710	28.018116	1.127610	0.020112	0.211620	0.032072	0.002059	0.001421	0.083867	0.000351	0.007939	0.004209	0.001190	0.011901
23-Aug-2023	12.102939	7.604260	11.479000	2.026120	27.331399	1.086290	0.019655	0.206999	0.031670	0.001991	0.001416	0.083165	0.000337	0.007762	0.004073	0.001157	0.011569
24-Aug-2023	12.052880	7.745600	11.740700	2.048950	27.778339	1.111240	0.019850	0.208880	0.031810	0.002033	0.001419	0.083533	0.000346	0.007856	0.004157	0.001179	0.011786
25-Aug-2023	11.352661	7.594400	11.465900	2.026380	27.307850	1.083140	0.019547	0.205835	0.031473	0.001987	0.001415	0.083064	0.000337	0.007736	0.004065	0.001155	0.011555
26-Aug-2023	10.919435	7.741460	11.732900	2.048970	27.768084	1.110040	0.019816	0.208558	0.031657	0.002035	0.001418	0.083650	0.000346	0.007847	0.004154	0.001178	0.011776
27-Aug-2023	10.805945	7.821880	11.883200	2.062350	28.023992	1.123520	0.019888	0.209148	0.031706	0.002058	0.001420	0.083790	0.000351	0.007896	0.004201	0.001190	0.011900
28-Aug-2023	9.514426	7.700700	11.658000	2.043860	27.645263	1.100920	0.019666	0.206869	0.031519	0.002025	0.001418	0.083642	0.000344	0.007811	0.004128	0.001171	0.011711
29-Aug-2023	9.200137	7.709410	11.676400	2.046240	27.676813	1.101760	0.019631	0.206460	0.031448	0.002028	0.001417	0.083682	0.000344	0.007807	0.004132	0.001172	0.011725
30-Aug-2023	9.254246	7.744040	11.740200	2.053180	27.791863	1.106850	0.019635	0.206401	0.031414	0.002043	0.001418	0.083973	0.000347	0.007824	0.004151	0.001177	0.011775
31-Aug-2023	9.849929	8.044820	12.292500	2.099910	28.735345	1.160850	0.020108	0.211023	0.031764	0.002133	0.001424	0.084782	0.000365	0.008039	0.004332	0.001223	0.012233
1-Sep-2023	9.379602	7.832250	11.905100	2.066410	28.066605	1.122680	0.019753	0.207520	0.031466	0.002066	0.001419	0.084007	0.000352	0.007883	0.004204	0.001191	0.011911
2-Sep-2023	9.276159	8.023290	12.256500	2.095140	28.661942	1.157730	0.020086	0.210827	0.031718	0.002124	0.001422	0.084483	0.000364	0.008022	0.004320	0.001220	0.012201
3-Sep-2023	9.064583	8.142310	12.474500	2.113350	29.034123	1.179340	0.020286	0.212810	0.031858	0.002161	0.001424	0.084863	0.000371	0.008109	0.004392	0.001238	0.012381
4-Sep-2023	9.208827	8.044830	12.299000	2.098470	28.729440	1.161490	0.020088	0.210797	0.031650	0.002134	0.001421	0.084615	0.000365	0.008030	0.004333	0.001223	0.012232
5-Sep-2023	8.643655	7.996470	12.212000	2.091020	28.578006	1.152680	0.019994	0.209830	0.031555	0.002119	0.001420	0.084429	0.000363	0.007991	0.004304	0.001216	0.012158
6-Sep-2023	8.129566	8.040390	12.294900	2.097640	28.714935	1.160750	0.020054	0.210406	0.031567	0.002133	0.001419	0.084538	0.000365	0.008018	0.004330	0.001222	0.012224
7-Sep-2023	8.034364	8.066170	12.344300	2.101520	28.795286	1.165430	0.020083	0.210669	0.031557	0.002142	0.001419	0.084590	0.000367	0.008033	0.004346	0.001226	0.012263
8-Sep-2023	7.626934	8.130440	12.461600	2.111490	28.996825	1.177070	0.020186	0.211682	0.031605	0.002165	0.001420	0.084926	0.000371	0.008079	0.004385	0.001236	0.012359
9-Sep-2023	7.376320	8.207590	12.604600	2.123360	29.238349	1.191140	0.020300	0.212781	0.031635	0.002194	0.001420	0.085314	0.000376	0.008131	0.004431	0.001247	0.012473
10-Sep-2023	7.236130	8.194270	12.580600	2.121250	29.196400	1.188630	0.020274	0.212517	0.031623	0.002188	0.001420	0.085172	0.000375	0.008121	0.004423	0.001245	0.012454
11-Sep-2023	6.650826	8.395480	12.952800	2.151270	29.822443	1.225650	0.020619	0.215962	0.031878	0.002246	0.001423	0.085534	0.000388	0.008265	0.004545	0.001276	0.012761
12-Sep-2023	6.143692	8.429470	13.015500	2.156470	29.928730	1.231830	0.020674	0.216496	0.031909	0.002257	0.001423	0.085655	0.000390	0.008288	0.004566	0.001281	0.012813

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Sep-2023	5.947887	8.768740	13.638200	2.208000	30.988088	1.293900	0.021267	0.222389	0.032356	0.002362	0.001429	0.086640	0.000411	0.008539	0.004772	0.001333	0.013327
14-Sep-2023	5.093730	8.365350	12.901600	2.146840	29.728966	1.220000	0.020529	0.215010	0.031733	0.002239	0.001420	0.085436	0.000386	0.008233	0.004526	0.001271	0.012714
15-Sep-2023	4.596624	8.420490	13.004700	2.155160	29.900912	1.230050	0.020610	0.215788	0.031768	0.002256	0.001421	0.085550	0.000390	0.008269	0.004560	0.001280	0.012798
16-Sep-2023	3.788633	8.458590	13.075900	2.160990	30.020056	1.237040	0.020668	0.216358	0.031786	0.002268	0.001421	0.085641	0.000392	0.008294	0.004583	0.001286	0.012855
17-Sep-2023	3.564621	8.510770	13.173300	2.168830	30.182635	1.246630	0.020750	0.217167	0.031830	0.002284	0.001421	0.085749	0.000395	0.008329	0.004614	0.001293	0.012935
18-Sep-2023	3.336579	8.652940	13.434500	2.190300	30.626047	1.272690	0.020997	0.219626	0.032008	0.002328	0.001423	0.086142	0.000404	0.008433	0.004701	0.001315	0.013150
19-Sep-2023	2.873336	8.577790	13.299500	2.178970	30.391740	1.258850	0.020841	0.218041	0.031845	0.002306	0.001421	0.085902	0.000400	0.008371	0.004655	0.001304	0.013036
20-Sep-2023	2.622333	8.790400	13.689900	2.211150	31.055145	1.297760	0.021209	0.221681	0.032109	0.002371	0.001424	0.086497	0.000413	0.008526	0.004784	0.001336	0.013358
21-Sep-2023	2.809996	9.380730	14.766300	2.300910	32.898830	1.405570	0.022275	0.232322	0.032975	0.002551	0.001437	0.088222	0.000449	0.008971	0.005143	0.001425	0.014251
22-Sep-2023	2.917329	8.900370	13.893600	2.227710	31.397934	1.317910	0.021389	0.223460	0.032222	0.002405	0.001426	0.086752	0.000420	0.008603	0.004850	0.001352	0.013525
23-Sep-2023	2.751308	9.048760	14.168700	2.249680	31.858936	1.345240	0.021635	0.225892	0.032383	0.002450	0.001427	0.087082	0.000429	0.008708	0.004941	0.001375	0.013750
24-Sep-2023	2.297935	8.820080	13.751600	2.215200	31.145933	1.303360	0.021213	0.221655	0.032009	0.002383	0.001422	0.086497	0.000415	0.008533	0.004801	0.001340	0.013402
25-Sep-2023	1.869889	8.837790	13.786200	2.217870	31.201150	1.306630	0.021232	0.221826	0.031996	0.002388	0.001422	0.086498	0.000416	0.008542	0.004812	0.001343	0.013429
26-Sep-2023	1.819014	8.892610	13.889000	2.226110	31.371968	1.316730	0.021316	0.222659	0.032035	0.002405	0.001422	0.086593	0.000420	0.008578	0.004845	0.001351	0.013513
27-Sep-2023	1.659907	9.410460	14.834300	2.304780	32.989003	1.411320	0.022246	0.231931	0.032784	0.002562	0.001432	0.088067	0.000451	0.008967	0.005160	0.001430	0.014297
28-Sep-2023	1.739423	9.565230	15.116400	2.328320	33.472401	1.439530	0.022522	0.234663	0.033006	0.002610	0.001436	0.088534	0.000461	0.009084	0.005254	0.001453	0.014531
29-Sep-2023	1.690794	9.615200	15.215300	2.335350	33.626126	1.448990	0.022578	0.235193	0.032989	0.002624	0.001434	0.088485	0.000464	0.009108	0.005284	0.001461	0.014609
30-Sep-2023	1.470999	9.209110	14.474700	2.273680	32.358162	1.374620	0.021832	0.227722	0.032363	0.002502	0.001425	0.087338	0.000439	0.008801	0.005037	0.001399	0.013992
1-Oct-2023	1.339812	9.007580	14.108200	2.242610	31.726995	1.337970	0.021468	0.224128	0.032073	0.002439	0.001421	0.086701	0.000427	0.008649	0.004915	0.001369	0.013689
2-Oct-2023	1.291365	8.882390	13.879600	2.223620	31.336195	1.315020	0.021238	0.221801	0.031871	0.002402	0.001418	0.086366	0.000419	0.008554	0.004839	0.001350	0.013497
3-Oct-2023	1.295311	8.829920	13.783300	2.215530	31.171863	1.305430	0.021144	0.220844	0.031792	0.002387	0.001417	0.086258	0.000416	0.008515	0.004807	0.001342	0.013417
4-Oct-2023	1.407222	8.807680	13.743800	2.211640	31.100310	1.301600	0.021106	0.220497	0.031770	0.002380	0.001416	0.086156	0.000415	0.008499	0.004794	0.001338	0.013384
5-Oct-2023	1.520392	8.787470	13.707500	2.208210	31.035721	1.298080	0.021072	0.220166	0.031742	0.002374	0.001415	0.086094	0.000414	0.008484	0.004782	0.001335	0.013354
6-Oct-2023	2.033838	8.768760	13.674600	2.204860	30.975207	1.294890	0.021039	0.219860	0.031717	0.002368	0.001414	0.085995	0.000413	0.008469	0.004771	0.001333	0.013327
7-Oct-2023	1.969143	8.730830	13.606800	2.198380	30.853811	1.288310	0.020974	0.219253	0.031667	0.002357	0.001413	0.085897	0.000410	0.008441	0.004748	0.001327	0.013271
8-Oct-2023	1.097254	8.719390	13.586700	2.196330	30.816804	1.286370	0.020953	0.219056	0.031648	0.002354	0.001412	0.085914	0.000410	0.008432	0.004742	0.001325	0.013254
9-Oct-2023	0.392615	8.707410	13.566100	2.194010	30.777336	1.284390	0.020930	0.218825	0.031618	0.002351	0.001411	0.085780	0.000409	0.008422	0.004735	0.001324	0.013235
10-Oct-2023	0.990489	8.703790	13.559100	2.193590	30.766567	1.283690	0.020926	0.218801	0.031625	0.002349	0.001411	0.085745	0.000409	0.008420	0.004732	0.001323	0.013231
11-Oct-2023	0.749673	8.658520	13.478800	2.185590	30.620584	1.275910	0.020847	0.218058	0.031562	0.002336	0.001409	0.085554	0.000406	0.008386	0.004706	0.001316	0.013164
12-Oct-2023	0.737837	8.633490	13.434200	2.181110	30.539636	1.271620	0.020802	0.217629	0.031518	0.002329	0.001408	0.085500	0.000405	0.008367	0.004691	0.001313	0.013126
13-Oct-2023	0.811725	8.608730	13.390300	2.176800	30.460061	1.267340	0.020761	0.217248	0.031498	0.002321	0.001407	0.085354	0.000403	0.008348	0.004677	0.001309	0.013090
14-Oct-2023	0.742217	8.609440	13.391900	2.176790	30.461793	1.267510	0.020760	0.217240	0.031492	0.002321	0.001407	0.085360	0.000403	0.008348	0.004677	0.001309	0.013091
15-Oct-2023	0.699713	8.599550	13.374200	2.175090	30.430097	1.265800	0.020743	0.217078	0.031476	0.002319	0.001406	0.085428	0.000403	0.008341	0.004671	0.001308	0.013076
16-Oct-2023	0.567409	8.580900	13.339700	2.172150	30.371421	1.262480	0.020713	0.216785	0.031441	0.002315	0.001406	0.085338	0.000402	0.008328	0.004660	0.001305	0.013047
17-Oct-2023	0.550653	8.644670	13.436800	2.189070	30.600331	1.271610	0.020874	0.218501	0.031717	0.002331	0.001418	0.086002	0.000405	0.008392	0.004694	0.001315	0.013145
18-Oct-2023	0.564822	8.708610	13.534900	2.205740	30.828636	1.280890	0.021032	0.220171	0.031955	0.002348	0.001429	0.086678	0.000407	0.008455	0.004729	0.001324	0.013243
19-Oct-2023	0.566558	8.751510	13.600700	2.216850	30.981509	1.287090	0.021138	0.221286	0.032121	0.002359	0.001436	0.087121	0.000409	0.008498	0.004752	0.001331	0.013308
20-Oct-2023	0.567596	8.798940	13.673700	2.229100	31.150387	1.293990	0.021255	0.222510	0.032301	0.002372	0.001444	0.087615	0.000412	0.008544	0.004778	0.001338	0.013380
21-Oct-2023	0.570950	8.718230	13.533200	2.214100	30.887084	1.280480	0.021109	0.221131	0.032188	0.002347	0.001439	0.087150	0.000407	0.008481	0.004730	0.001326	0.013263
22-Oct-2023	0.572582	8.762970	13.606500	2.224170	31.040268	1.287510	0.021205	0.222108	0.032309	0.002360	0.001445	0.087515	0.000409	0.008521	0.004755	0.001333	0.013330
23-Oct-2023	0.574730	8.801990	13.669000	2.233310	31.175340	1.293330	0.021293	0.223005	0.032429	0.002370	0.001450	0.087854	0.000411	0.008557	0.004777	0.001339	0.013388
24-Oct-2023	0.575544	8.832670	13.717600	2.240760	31.282627	1.297950	0.021364	0.223741	0.032530	0.002379	0.001455	0.088137	0.000413	0.008586	0.004794	0.001343	0.013435
25-Oct-2023	0.575044	8.861930	13.763400	2.248090	31.385874	1.302280	0.021434	0.224470	0.032634	0.002387	0.001459	0.088423	0.000414	0.008614	0.004810	0.001348	0.013479
26-Oct-2023	0.575105	8.888080	13.804500	2.254540	31.477731	1.306190	0.021495	0.225108	0.032723	0.002394	0.001463	0.088671	0.000415	0.008639	0.004824	0.001352	0.013519
27-Oct-2023	0.573560	8.937620	13.884500	2.266000	31.648625	1.313820	0.021605	0.226231	0.032870	0.002408	0.001470	0.089094	0.000418	0.008684	0.004852	0.001359	0.013593
28-Oct-2023	0.573080	8.968640	13.932400	2.273970	31.758903	1.318350	0.021681	0.227028	0.032987	0.002416	0.001475	0.089409	0.000419	0.008714	0.004868	0.001364	0.013640
29-Oct-2023	0.573209	9.001120	13.983300	2.282230	31.874020	1.323170	0.021759	0.227874	0.033126	0.002425	0.001481	0.089762	0.000421	0.008745	0.004886	0.001369	0.013690
30-Oct-2023	0.572425	9.064140	14.080600	2.298260	32.097392	1.332370	0.021913	0.229452	0.033340	0.002442	0.001491	0.090366	0.000424	0.008807	0.004920	0.001379	0.013786
31-Oct-2023	0.571199	9.105420	14.145000	2.308580	32.242966	1.338470	0.022012	0.230484	0.033489	0.002453	0.001497	0.090774	0.000426	0.008847	0.004943	0.001385	0.013848
1-Nov-2023	0.569218	9.138050	14.196000	2.316690	32.357840	1.343320	0.022089	0.231291	0.033603	0.002462	0.001502	0.091098	0.000427	0.008878	0.004961	0.001390	0.013898
2-Nov-2023	0.567705	9.176270	14.255300	2.326370	32.493138	1.348940	0.022182	0.232257	0.033742	0.002473	0.001509	0.091488	0.000429	0.008916	0.004981	0.001396	0.013956
3-Nov-2023	0.564905	9.209820	14.307600	2.334800	32.611627	1.353890	0.022262	0.233097	0.033863	0.002482	0.001514	0.091819	0.000431	0.008948	0.005000	0.001401	0.014006

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4-Nov-2023	0.563083	9.209820	14.307000	2.334910	32.612080	1.353850	0.022263	0.233109	0.033864	0.002483	0.001514	0.091855	0.000431	0.008949	0.005000	0.001401	0.014006
5-Nov-2023	0.561494	9.252490	14.374700	2.345240	32.761166	1.360290	0.022361	0.234122	0.034000	0.002495	0.001520	0.092249	0.000433	0.008988	0.005023	0.001407	0.014070
6-Nov-2023	0.560841	9.288420	14.431400	2.354080	32.887286	1.365660	0.022445	0.234992	0.034119	0.002505	0.001526	0.092594	0.000434	0.009022	0.005043	0.001412	0.014124
7-Nov-2023	0.558981	9.322140	14.484400	2.362390	33.005706	1.370700	0.022525	0.235813	0.034233	0.002514	0.001531	0.092922	0.000436	0.009054	0.005061	0.001418	0.014175
8-Nov-2023	0.557643	9.350030	14.528600	2.369170	33.103267	1.374900	0.022589	0.236481	0.034324	0.002522	0.001535	0.093184	0.000437	0.009081	0.005077	0.001422	0.014217
9-Nov-2023	0.556728	9.375950	14.569300	2.375590	33.194427	1.378760	0.022650	0.237117	0.034413	0.002529	0.001539	0.093435	0.000439	0.009105	0.005091	0.001426	0.014257
10-Nov-2023	0.556757	9.393010	14.596100	2.379800	33.254362	1.381300	0.022691	0.237538	0.034473	0.002534	0.001542	0.093592	0.000439	0.009122	0.005100	0.001428	0.014283
11-Nov-2023	0.556571	9.421050	14.640000	2.386810	33.353245	1.385460	0.022758	0.238239	0.034576	0.002541	0.001546	0.093855	0.000441	0.009149	0.005115	0.001433	0.014325
12-Nov-2023	0.555303	9.443060	14.674200	2.392400	33.431224	1.388690	0.022811	0.238800	0.034659	0.002547	0.001550	0.094069	0.000442	0.009170	0.005127	0.001436	0.014359
13-Nov-2023	0.555103	9.475620	14.724400	2.400780	33.547035	1.393430	0.022891	0.239640	0.034784	0.002555	0.001555	0.094400	0.000443	0.009202	0.005145	0.001441	0.014409
14-Nov-2023	0.555701	9.514650	14.784500	2.410890	33.686126	1.399100	0.022987	0.240652	0.034933	0.002566	0.001562	0.094808	0.000445	0.009240	0.005166	0.001447	0.014468
15-Nov-2023	0.555699	9.572230	14.873000	2.425770	33.891179	1.407480	0.023129	0.242138	0.035148	0.002582	0.001572	0.095420	0.000448	0.009297	0.005197	0.001456	0.014555
16-Nov-2023	0.555421	9.631710	14.965200	2.440890	34.101965	1.416210	0.023273	0.243648	0.035368	0.002598	0.001582	0.096020	0.000450	0.009355	0.005229	0.001465	0.014646
17-Nov-2023	0.554782	9.690350	15.056500	2.455720	34.309459	1.424840	0.023414	0.245128	0.035583	0.002614	0.001591	0.096598	0.000453	0.009412	0.005261	0.001474	0.014735
18-Nov-2023	0.554492	9.748950	15.147600	2.470540	34.516812	1.433470	0.023556	0.246608	0.035798	0.002629	0.001601	0.097176	0.000456	0.009469	0.005293	0.001482	0.014824
19-Nov-2023	0.554255	9.812640	15.246600	2.486670	34.742269	1.442830	0.023710	0.248219	0.036032	0.002646	0.001611	0.097809	0.000459	0.009531	0.005328	0.001492	0.014921
20-Nov-2023	0.554046	9.881040	15.352900	2.504020	34.984511	1.452890	0.023875	0.249950	0.036284	0.002665	0.001623	0.098493	0.000462	0.009597	0.005365	0.001503	0.015025
21-Nov-2023	0.552510	9.958780	15.473400	2.523800	35.260082	1.464290	0.024064	0.251924	0.036570	0.002686	0.001636	0.099281	0.000466	0.009673	0.005407	0.001514	0.015143
22-Nov-2023	0.550759	10.004600	15.543400	2.535800	35.423911	1.470920	0.024177	0.253122	0.036743	0.002699	0.001644	0.099790	0.000468	0.009718	0.005432	0.001521	0.015213
23-Nov-2023	0.549118	10.059800	15.628300	2.549990	35.620179	1.478960	0.024312	0.254537	0.036948	0.002714	0.001653	0.100372	0.000470	0.009773	0.005461	0.001530	0.015296
24-Nov-2023	0.547806	10.109000	15.704100	2.562670	35.795248	1.486130	0.024433	0.255801	0.037130	0.002728	0.001661	0.100895	0.000473	0.009821	0.005488	0.001537	0.015371
25-Nov-2023	0.546387	10.161000	15.784400	2.576000	35.979985	1.493730	0.024560	0.257131	0.037322	0.002742	0.001670	0.101436	0.000475	0.009872	0.005516	0.001545	0.015449
26-Nov-2023	0.545567	10.210600	15.860700	2.588810	36.156588	1.500950	0.024682	0.258408	0.037507	0.002756	0.001678	0.101966	0.000477	0.009921	0.005543	0.001552	0.015525
27-Nov-2023	0.544654	10.241400	15.908400	2.596610	36.265616	1.505470	0.024756	0.259186	0.037619	0.002764	0.001683	0.102277	0.000479	0.009951	0.005560	0.001557	0.015571
28-Nov-2023	0.543675	10.277800	15.965600	2.605620	36.393610	1.510890	0.024842	0.260084	0.037749	0.002774	0.001689	0.102614	0.000481	0.009985	0.005580	0.001563	0.015627
29-Nov-2023	0.542775	10.301600	16.003100	2.611490	36.477211	1.514440	0.024898	0.260670	0.037833	0.002780	0.001693	0.102832	0.000482	0.010008	0.005593	0.001566	0.015663
30-Nov-2023	0.542557	10.332900	16.051800	2.619400	36.587941	1.519050	0.024974	0.261459	0.037948	0.002789	0.001698	0.103142	0.000483	0.010038	0.005610	0.001571	0.015711
1-Dec-2023	0.542341	10.374200	16.116200	2.629850	36.734100	1.525140	0.025073	0.262501	0.038098	0.002800	0.001705	0.103553	0.000485	0.010079	0.005632	0.001577	0.015773
2-Dec-2023	0.542228	10.406900	16.167000	2.638070	36.849602	1.529960	0.025152	0.263322	0.038217	0.002809	0.001710	0.103875	0.000487	0.010110	0.005650	0.001582	0.015823
3-Dec-2023	0.542209	10.436400	16.212800	2.645560	36.954107	1.534290	0.025223	0.264069	0.038325	0.002817	0.001715	0.104172	0.000488	0.010139	0.005666	0.001587	0.015868
4-Dec-2023	0.541971	10.484100	16.287000	2.657620	37.122877	1.541310	0.025338	0.265272	0.038499	0.002830	0.001723	0.104645	0.000490	0.010185	0.005692	0.001594	0.015940
5-Dec-2023	0.541762	10.493700	16.302300	2.659970	37.156525	1.542760	0.025361	0.265506	0.038533	0.002832	0.001724	0.104730	0.000491	0.010194	0.005697	0.001596	0.015955
6-Dec-2023	0.541633	10.522700	16.347300	2.667290	37.259082	1.547020	0.025431	0.266236	0.038638	0.002840	0.001729	0.105018	0.000492	0.010222	0.005713	0.001600	0.015999
7-Dec-2023	0.541326	10.547500	16.385800	2.673570	37.346869	1.550670	0.025490	0.266863	0.038729	0.002847	0.001733	0.105267	0.000493	0.010246	0.005726	0.001604	0.016037
8-Dec-2023	0.541024	10.559700	16.404800	2.676640	37.389974	1.552470	0.025520	0.267169	0.038773	0.002850	0.001735	0.105388	0.000494	0.010258	0.005733	0.001606	0.016055
9-Dec-2023	0.540936	10.583500	16.441700	2.682730	37.474482	1.555960	0.025578	0.267776	0.038861	0.002856	0.001739	0.105632	0.000495	0.010281	0.005746	0.001609	0.016091
10-Dec-2023	0.540827	10.523000	16.347800	2.667410	37.260325	1.547070	0.025432	0.266246	0.038638	0.002840	0.001729	0.105030	0.000492	0.010223	0.005713	0.001600	0.015999
11-Dec-2023	0.540612	10.562300	16.408900	2.677280	37.399102	1.552860	0.025526	0.267231	0.038781	0.002851	0.001735	0.105414	0.000494	0.010261	0.005734	0.001606	0.016059
12-Dec-2023	0.540517	10.606900	16.478400	2.688530	37.556796	1.559440	0.025633	0.268354	0.038944	0.002863	0.001742	0.105852	0.000496	0.010304	0.005759	0.001613	0.016127
13-Dec-2023	0.540413	10.655000	16.553300	2.700710	37.727059	1.566520	0.025749	0.269569	0.039120	0.002876	0.001750	0.106330	0.000498	0.010350	0.005785	0.001620	0.016200
14-Dec-2023	0.540061	10.695700	16.616600	2.711030	37.871184	1.572510	0.025848	0.270599	0.039270	0.002887	0.001757	0.106736	0.000500	0.010390	0.005807	0.001626	0.016262
15-Dec-2023	0.540017	10.747500	16.696900	2.724140	38.054516	1.580120	0.025973	0.271908	0.039460	0.002901	0.001766	0.107252	0.000503	0.010440	0.005835	0.001634	0.016341
16-Dec-2023	0.539963	10.798400	16.776000	2.737090	38.234941	1.587600	0.026096	0.273201	0.039647	0.002914	0.001774	0.107766	0.000505	0.010490	0.005863	0.001642	0.016418
17-Dec-2023	0.539804	10.829100	16.823800	2.744850	38.343555	1.592120	0.026170	0.273975	0.039759	0.002923	0.001779	0.108069	0.000506	0.010520	0.005879	0.001646	0.016465
18-Dec-2023	0.539691	10.869600	16.886600	2.755120	38.486975	1.598060	0.026268	0.275000	0.039908	0.002934	0.001786	0.108476	0.000508	0.010559	0.005901	0.001653	0.016526
19-Dec-2023	0.539555	10.913200	16.954300	2.766200	38.641472	1.604470	0.026374	0.276106	0.040068	0.002946	0.001793	0.108914	0.000510	0.010601	0.005925	0.001659	0.016593
20-Dec-2023	0.539368	10.898800	16.931900	2.762550	38.590485	1.602360	0.026339	0.275742	0.040015	0.002942	0.001790	0.108771	0.000510	0.010587	0.005917	0.001657	0.016571
21-Dec-2023	0.539214	10.950300	17.011800	2.775620	38.772902	1.609920	0.026463	0.277045	0.040205	0.002956	0.001799	0.109288	0.000512	0.010637	0.005945	0.001665	0.016649
22-Dec-2023	0.539150	10.998900	17.087200	2.787950	38.945031	1.617050	0.026581	0.278276	0.040383	0.002969	0.001807	0.109775	0.000514	0.010685	0.005971	0.001672	0.016723
23-Dec-2023	0.539044	11.036800	17.146100	2.797530	39.079118	1.622630	0.026672	0.279232	0.040522	0.002979	0.001813	0.110151	0.000516	0.010721	0.005992	0.001678	0.016780
24-Dec-2023	0.538835	11.083400	17.218500	2.809370	39.244235	1.629480	0.026785	0.280413	0.040693	0.002992	0.001821	0.110619	0.000518	0.010767	0.006017	0.001685	0.016851
25-Dec-2023	0.538743	11.130900	17.292200	2.821450	39.412588	1.636460	0.026900	0.281619	0.040868	0.003004	0.001829	0.111098	0.000521	0.010813	0.006043	0.001692	0.016924

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
26-Dec-2023	0.538661	11.179100	17.367200	2.833630	39.583101	1.643550	0.027016	0.282835	0.041045	0.003017	0.001837	0.111575	0.000523	0.010860	0.006069	0.001700	0.016997
27-Dec-2023	0.538401	11.214200	17.421800	2.842550	39.707478	1.648720	0.027101	0.283725	0.041174	0.003027	0.001842	0.111927	0.000524	0.010894	0.006088	0.001705	0.017050
28-Dec-2023	0.538365	11.249200	17.475800	2.851450	39.831524	1.653830	0.027186	0.284613	0.041302	0.003036	0.001848	0.112283	0.000526	0.010928	0.006107	0.001710	0.017103
29-Dec-2023	0.538236	11.317500	17.582000	2.868750	40.073310	1.663880	0.027351	0.286340	0.041553	0.003055	0.001859	0.112963	0.000529	0.010994	0.006144	0.001721	0.017207
30-Dec-2023	0.537877	11.375900	17.672800	2.883550	40.280081	1.672470	0.027492	0.287817	0.041767	0.003071	0.001869	0.113545	0.000532	0.011051	0.006176	0.001730	0.017296
31-Dec-2023	0.537851	11.437900	17.769000	2.899320	40.499836	1.681580	0.027643	0.289391	0.041995	0.003087	0.001879	0.114171	0.000535	0.011111	0.006210	0.001739	0.017390
1-Jan-2024	0.537686	11.530400	17.912600	2.922740	40.827252	1.695170	0.027866	0.291729	0.042335	0.003112	0.001894	0.115093	0.000539	0.011201	0.006260	0.001753	0.017531
2-Jan-2024	0.537388	11.586300	17.999700	2.936910	41.025186	1.703400	0.028001	0.293143	0.042540	0.003127	0.001904	0.115650	0.000542	0.011256	0.006290	0.001762	0.017616
3-Jan-2024	0.537279	11.590000	18.005200	2.937900	41.038502	1.703930	0.028010	0.293241	0.042554	0.003129	0.001904	0.115694	0.000542	0.011259	0.006292	0.001762	0.017621
4-Jan-2024	0.537130	11.623200	18.056800	2.946320	41.156076	1.708810	0.028091	0.294081	0.042675	0.003137	0.001910	0.116026	0.000544	0.011291	0.006310	0.001767	0.017672
5-Jan-2024	0.536989	11.660900	18.115400	2.955830	41.289375	1.714360	0.028181	0.295030	0.042813	0.003148	0.001916	0.116398	0.000545	0.011328	0.006331	0.001773	0.017729
6-Jan-2024	0.536785	11.710700	18.192700	2.968470	41.465777	1.721670	0.028302	0.296292	0.042996	0.003161	0.001924	0.116899	0.000548	0.011376	0.006358	0.001780	0.017805
7-Jan-2024	0.536710	11.743500	18.243600	2.976830	41.582105	1.726490	0.028381	0.297126	0.043117	0.003170	0.001929	0.117232	0.000549	0.011408	0.006376	0.001785	0.017855
8-Jan-2024	0.536589	11.778700	18.298300	2.985720	41.706609	1.731670	0.028466	0.298014	0.043246	0.003180	0.001935	0.117580	0.000551	0.011443	0.006395	0.001791	0.017908
9-Jan-2024	0.536275	11.833500	18.383300	2.999630	41.900726	1.739710	0.028599	0.299402	0.043447	0.003194	0.001944	0.118130	0.000553	0.011496	0.006424	0.001799	0.017991
10-Jan-2024	0.536199	11.870100	18.440100	3.008970	42.030578	1.745090	0.028688	0.300334	0.043582	0.003204	0.001950	0.118503	0.000555	0.011532	0.006444	0.001805	0.018047
11-Jan-2024	0.536109	11.896600	18.481300	3.015640	42.124216	1.748990	0.028751	0.300999	0.043679	0.003211	0.001955	0.118762	0.000556	0.011557	0.006459	0.001809	0.018087
12-Jan-2024	0.535923	11.804900	18.338400	2.992580	41.800280	1.735460	0.028531	0.298697	0.043344	0.003187	0.001940	0.117872	0.000552	0.011469	0.006409	0.001795	0.017948
13-Jan-2024	0.535860	11.829100	18.376200	2.998570	41.885374	1.739050	0.028589	0.299295	0.043431	0.003193	0.001944	0.118098	0.000553	0.011492	0.006422	0.001798	0.017985
14-Jan-2024	0.535767	11.896300	18.480400	3.015690	42.123673	1.748900	0.028752	0.301003	0.043679	0.003212	0.001955	0.118779	0.000556	0.011557	0.006458	0.001809	0.018087
15-Jan-2024	0.535688	11.938900	18.546200	3.026650	42.275178	1.755130	0.028856	0.302096	0.043837	0.003223	0.001962	0.119222	0.000558	0.011599	0.006482	0.001815	0.018151
16-Jan-2024	0.535421	11.953200	18.568700	3.030150	42.325298	1.757260	0.028889	0.302446	0.043888	0.003227	0.001964	0.119352	0.000559	0.011613	0.006489	0.001817	0.018173
17-Jan-2024	0.535336	12.016300	18.667100	3.046060	42.548376	1.766570	0.029041	0.304034	0.044119	0.003244	0.001974	0.119968	0.000562	0.011674	0.006524	0.001827	0.018269
18-Jan-2024	0.535267	12.106800	18.807700	3.068990	42.868780	1.779880	0.029260	0.306323	0.044451	0.003268	0.001989	0.120870	0.000566	0.011762	0.006573	0.001841	0.018407
19-Jan-2024	0.535143	12.205000	18.960300	3.093870	43.216442	1.794320	0.029497	0.308806	0.044811	0.003295	0.002005	0.121849	0.000571	0.011857	0.006626	0.001856	0.018556
20-Jan-2024	0.535035	12.304800	19.115300	3.119150	43.569745	1.808980	0.029738	0.311330	0.045178	0.003322	0.002022	0.122845	0.000575	0.011954	0.006680	0.001871	0.018708
21-Jan-2024	0.534948	12.436300	19.319700	3.152480	44.035354	1.828330	0.030056	0.314657	0.045660	0.003357	0.002043	0.124155	0.000582	0.012082	0.006752	0.001891	0.018908
22-Jan-2024	0.534829	12.571200	19.529100	3.186680	44.513035	1.848150	0.030382	0.318070	0.046156	0.003394	0.002065	0.125504	0.000588	0.012213	0.006825	0.001911	0.019113
23-Jan-2024	0.534630	12.686900	19.708800	3.216060	44.922924	1.865150	0.030662	0.321003	0.046581	0.003425	0.002085	0.126665	0.000593	0.012325	0.006888	0.001929	0.019289
24-Jan-2024	0.534570	12.750600	19.807700	3.232240	45.148613	1.874510	0.030816	0.322617	0.046815	0.003442	0.002095	0.127305	0.000596	0.012387	0.006922	0.001939	0.019386
25-Jan-2024	0.534487	12.854200	19.968800	3.258490	45.515399	1.889750	0.031067	0.325237	0.047195	0.003470	0.002112	0.128337	0.000601	0.012488	0.006979	0.001954	0.019543
26-Jan-2024	0.534391	12.940100	20.102200	3.280260	45.819540	1.902380	0.031274	0.327410	0.047511	0.003493	0.002126	0.129194	0.000605	0.012571	0.007025	0.001967	0.019674
27-Jan-2024	0.534285	13.008200	20.207900	3.297530	46.060704	1.912390	0.031439	0.329134	0.047761	0.003512	0.002137	0.129875	0.000608	0.012637	0.007062	0.001978	0.019777
28-Jan-2024	0.534215	13.069000	20.302400	3.312950	46.276021	1.921330	0.031586	0.330673	0.047984	0.003528	0.002147	0.130483	0.000611	0.012696	0.007095	0.001987	0.019870
29-Jan-2024	0.534171	13.137400	20.408500	3.330280	46.518181	1.931370	0.031751	0.332402	0.048235	0.003547	0.002159	0.131167	0.000614	0.012763	0.007132	0.001997	0.019974
30-Jan-2024	0.534109	13.207300	20.517100	3.348000	46.765692	1.941650	0.031920	0.334171	0.048492	0.003565	0.002170	0.131866	0.000618	0.012831	0.007170	0.002008	0.020080
31-Jan-2024	0.534037	13.279000	20.628500	3.366180	47.019592	1.952190	0.032093	0.335986	0.048755	0.003585	0.002182	0.132582	0.000621	0.012900	0.007209	0.002019	0.020189
1-Feb-2024	0.533951	13.351300	20.740800	3.384510	47.275608	1.962820	0.032268	0.337815	0.049020	0.003604	0.002194	0.133304	0.000624	0.012971	0.007248	0.002030	0.020299
2-Feb-2024	0.533892	13.410200	20.832400	3.399450	47.484205	1.971490	0.032410	0.339306	0.049236	0.003620	0.002203	0.133892	0.000627	0.013028	0.007280	0.002039	0.020389
3-Feb-2024	0.533836	13.461400	20.911900	3.412420	47.665461	1.979010	0.032534	0.340601	0.049424	0.003634	0.002212	0.134403	0.000629	0.013078	0.007308	0.002047	0.020466
4-Feb-2024	0.533795	13.515700	20.996300	3.426160	47.857630	1.986990	0.032665	0.341972	0.049623	0.003649	0.002221	0.134944	0.000632	0.013130	0.007338	0.002055	0.020549
5-Feb-2024	0.533761	13.567900	21.077300	3.439380	48.042413	1.994670	0.032791	0.343291	0.049814	0.003663	0.002229	0.135463	0.000634	0.013181	0.007366	0.002063	0.020628
6-Feb-2024	0.533703	13.345600	20.732000	3.383030	47.255281	1.961980	0.032254	0.337667	0.048998	0.003603	0.002193	0.133245	0.000624	0.012965	0.007245	0.002029	0.020290
7-Feb-2024	0.533675	13.373200	20.775000	3.390030	47.353024	1.966050	0.032321	0.338365	0.049100	0.003610	0.002197	0.133520	0.000625	0.012992	0.007260	0.002033	0.020332
8-Feb-2024	0.533644	13.412400	20.835900	3.399960	47.491798	1.971820	0.032415	0.339356	0.049243	0.003621	0.002204	0.133910	0.000627	0.013030	0.007282	0.002039	0.020392
9-Feb-2024	0.533594	13.458500	20.907400	3.411620	47.654926	1.978590	0.032526	0.340520	0.049412	0.003633	0.002211	0.134369	0.000629	0.013075	0.007307	0.002046	0.020462
10-Feb-2024	0.533551	13.504500	20.979000	3.423280	47.817804	1.985360	0.032638	0.341684	0.049581	0.003646	0.002219	0.134828	0.000631	0.013119	0.007332	0.002053	0.020532
11-Feb-2024	0.533522	13.563100	21.070100	3.438130	48.025280	1.993990	0.032779	0.343166	0.049796	0.003662	0.002228	0.135412	0.000634	0.013176	0.007363	0.002062	0.020621
12-Feb-2024	0.533496	13.513100	20.992500	3.425440	47.848173	1.986640	0.032658	0.341899	0.049612	0.003648	0.002220	0.134911	0.000632	0.013128	0.007336	0.002054	0.020545
13-Feb-2024	0.533475	13.575200	21.088900	3.441160	48.067971	1.995770	0.032808	0.343468	0.049840	0.003665	0.002230	0.135530	0.000635	0.013188	0.007370	0.002064	0.020639
14-Feb-2024	0.533443	13.636800	21.184700	3.456790	48.286151	2.004830	0.032957	0.345028	0.050066	0.003681	0.002240	0.136145	0.000638	0.013248	0.007403	0.002073	0.020733
15-Feb-2024	0.533420	13.698900	21.281100	3.472500	48.505908	2.013960	0.033107	0.346596	0.050293	0.003698	0.002251	0.136763	0.000641	0.013308	0.007437	0.002083	0.020827

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16-Feb-2024	0.533400	13.762400	21.379900	3.488600	48.730768	2.023300	0.033260	0.348203	0.050527	0.003715	0.002261	0.137396	0.000644	0.013370	0.007472	0.002092	0.020924
17-Feb-2024	0.533368	13.825600	21.478100	3.504620	48.954548	2.032600	0.033413	0.349802	0.050759	0.003732	0.002271	0.138027	0.000647	0.013431	0.007506	0.002102	0.021020
18-Feb-2024	0.533341	13.885200	21.570600	3.519700	49.165469	2.041350	0.033557	0.351308	0.050977	0.003748	0.002281	0.138620	0.000649	0.013489	0.007538	0.002111	0.021111
19-Feb-2024	0.533326	13.941700	21.658400	3.534020	49.365519	2.049660	0.033694	0.352736	0.051184	0.003764	0.002291	0.139184	0.000652	0.013544	0.007569	0.002120	0.021196
20-Feb-2024	0.533288	13.996600	21.743800	3.547940	49.559927	2.057740	0.033826	0.354126	0.051386	0.003779	0.002300	0.139732	0.000654	0.013597	0.007599	0.002128	0.021280
21-Feb-2024	0.533251	14.056700	21.837100	3.563160	49.772673	2.066570	0.033971	0.355645	0.051606	0.003795	0.002309	0.140330	0.000657	0.013655	0.007631	0.002137	0.021371
22-Feb-2024	0.533224	14.124900	21.943100	3.580430	50.014086	2.076600	0.034136	0.357369	0.051856	0.003813	0.002321	0.141010	0.000660	0.013722	0.007668	0.002148	0.021475
23-Feb-2024	0.533209	14.194900	22.051800	3.598180	50.261971	2.086890	0.034305	0.359140	0.052113	0.003832	0.002332	0.141709	0.000664	0.013790	0.007706	0.002158	0.021581
24-Feb-2024	0.533188	14.259700	22.152500	3.614600	50.491394	2.096430	0.034462	0.360779	0.052351	0.003850	0.002343	0.142355	0.000667	0.013853	0.007742	0.002168	0.021680
25-Feb-2024	0.533171	14.319400	22.245400	3.629730	50.702770	2.105210	0.034606	0.362289	0.052570	0.003866	0.002353	0.142950	0.000670	0.013911	0.007774	0.002177	0.021771
26-Feb-2024	0.533142	14.359300	22.307300	3.639840	50.844033	2.111070	0.034702	0.363298	0.052717	0.003876	0.002359	0.143348	0.000671	0.013949	0.007796	0.002183	0.021831
27-Feb-2024	0.533122	14.429200	22.416000	3.657560	51.091544	2.121360	0.034871	0.365067	0.052973	0.003895	0.002371	0.144046	0.000675	0.014017	0.007834	0.002194	0.021938
28-Feb-2024	0.533103	14.499200	22.524800	3.675300	51.339388	2.131650	0.035041	0.366838	0.053230	0.003914	0.002382	0.144744	0.000678	0.014085	0.007872	0.002204	0.022044
29-Feb-2024	0.533090	14.575000	22.642500	3.694500	51.607726	2.142790	0.035224	0.368754	0.053508	0.003935	0.002394	0.145500	0.000682	0.014159	0.007913	0.002216	0.022159
1-Mar-2024	0.533075	14.644400	22.750300	3.712090	51.853453	2.153000	0.035391	0.370510	0.053763	0.003953	0.002406	0.146192	0.000685	0.014226	0.007951	0.002226	0.022265
2-Mar-2024	0.533063	14.723500	22.873300	3.732140	52.133532	2.164630	0.035583	0.372511	0.054053	0.003975	0.002419	0.146981	0.000688	0.014303	0.007994	0.002239	0.022385
3-Mar-2024	0.533054	14.808700	23.005600	3.753730	52.435184	2.177160	0.035788	0.374666	0.054366	0.003998	0.002433	0.147832	0.000692	0.014386	0.008040	0.002251	0.022515
4-Mar-2024	0.533041	14.896800	23.142500	3.776060	52.747125	2.190110	0.036001	0.376895	0.054689	0.004021	0.002447	0.148710	0.000697	0.014471	0.008088	0.002265	0.022649
5-Mar-2024	0.533027	14.962600	23.244700	3.792730	52.980074	2.199780	0.036160	0.378558	0.054931	0.004039	0.002458	0.149367	0.000700	0.014535	0.008123	0.002275	0.022749
6-Mar-2024	0.533017	15.033600	23.354900	3.810710	53.231403	2.210210	0.036332	0.380353	0.055191	0.004058	0.002470	0.150075	0.000703	0.014604	0.008162	0.002286	0.022857
7-Mar-2024	0.533009	15.106400	23.468100	3.829170	53.489203	2.220920	0.036508	0.382195	0.055458	0.004078	0.002482	0.150801	0.000706	0.014675	0.008201	0.002297	0.022967
8-Mar-2024	0.533000	15.187600	23.594200	3.849740	53.776667	2.232860	0.036704	0.384249	0.055756	0.004100	0.002495	0.151611	0.000710	0.014754	0.008245	0.002309	0.023091
9-Mar-2024	0.532988	15.278000	23.734700	3.872660	54.096780	2.246160	0.036922	0.386537	0.056088	0.004124	0.002510	0.152514	0.000714	0.014842	0.008295	0.002323	0.023228
10-Mar-2024	0.532977	15.375900	23.886800	3.897470	54.443404	2.260550	0.037159	0.389013	0.056448	0.004151	0.002526	0.153491	0.000719	0.014937	0.008348	0.002338	0.023377
11-Mar-2024	0.532967	15.478600	24.046400	3.923510	54.807078	2.275650	0.037407	0.391611	0.056825	0.004179	0.002543	0.154516	0.000724	0.015037	0.008403	0.002353	0.023533
12-Mar-2024	0.532959	15.578500	24.201600	3.948830	55.160796	2.290340	0.037648	0.394139	0.057191	0.004206	0.002559	0.155513	0.000728	0.015134	0.008458	0.002369	0.023685
13-Mar-2024	0.532953	15.674300	24.350400	3.973100	55.499953	2.304420	0.037880	0.396561	0.057543	0.004231	0.002575	0.156468	0.000733	0.015227	0.008510	0.002383	0.023831
14-Mar-2024	0.532946	15.769100	24.497700	3.997130	55.835624	2.318360	0.038109	0.398960	0.057891	0.004257	0.002591	0.157414	0.000737	0.015319	0.008561	0.002397	0.023975
15-Mar-2024	0.532938	15.870700	24.655500	4.022880	56.195358	2.333300	0.038355	0.401530	0.058264	0.004284	0.002607	0.158429	0.000742	0.015417	0.008616	0.002413	0.024129
16-Mar-2024	0.532933	15.978700	24.823300	4.050240	56.577702	2.349170	0.038615	0.404261	0.058660	0.004314	0.002625	0.159506	0.000747	0.015522	0.008675	0.002429	0.024294
17-Mar-2024	0.532929	16.088100	24.993200	4.077970	56.965066	2.365260	0.038880	0.407029	0.059062	0.004343	0.002643	0.160598	0.000752	0.015629	0.008734	0.002446	0.024460
18-Mar-2024	0.532922	16.203200	25.172100	4.107150	57.372634	2.382180	0.039158	0.409941	0.059484	0.004374	0.002662	0.161747	0.000758	0.015740	0.008797	0.002463	0.024635
19-Mar-2024	0.532917	16.326700	25.364000	4.138460	57.809948	2.400340	0.039456	0.413066	0.059938	0.004407	0.002682	0.162979	0.000763	0.015860	0.008864	0.002482	0.024823
20-Mar-2024	0.532914	16.455200	25.563600	4.171020	58.264895	2.419230	0.039767	0.416316	0.060409	0.004442	0.002703	0.164262	0.000769	0.015985	0.008934	0.002502	0.025018
21-Mar-2024	0.532910	16.577900	25.754300	4.202140	58.699429	2.437280	0.040064	0.419422	0.060860	0.004475	0.002723	0.165487	0.000775	0.016104	0.009000	0.002520	0.025205
22-Mar-2024	0.532906	16.709100	25.958000	4.235380	59.163918	2.456560	0.040380	0.422739	0.061341	0.004511	0.002745	0.166796	0.000781	0.016232	0.009072	0.002540	0.025404
23-Mar-2024	0.532901	16.846400	26.171400	4.270180	59.650062	2.476750	0.040712	0.426214	0.061846	0.004548	0.002768	0.168167	0.000788	0.016365	0.009146	0.002561	0.025613
24-Mar-2024	0.532899	16.993200	26.399300	4.307380	60.169811	2.498330	0.041067	0.429926	0.062384	0.004587	0.002792	0.169631	0.000795	0.016508	0.009226	0.002584	0.025836
25-Mar-2024	0.532899	17.146100	26.637000	4.346150	60.711257	2.520820	0.041437	0.433796	0.062946	0.004629	0.002817	0.171158	0.000802	0.016656	0.009309	0.002607	0.026068
26-Mar-2024	0.532899	17.306600	26.886300	4.386840	61.279587	2.544410	0.041824	0.437857	0.063535	0.004672	0.002843	0.172760	0.000809	0.016812	0.009396	0.002631	0.026313
27-Mar-2024	0.532900	17.474800	27.147500	4.429460	61.875092	2.569130	0.042231	0.442111	0.064152	0.004717	0.002871	0.174439	0.000817	0.016976	0.009487	0.002657	0.026568
28-Mar-2024	0.532900	17.651900	27.422800	4.474360	62.502209	2.595180	0.042659	0.446593	0.064803	0.004765	0.002900	0.176207	0.000825	0.017148	0.009583	0.002684	0.026837
29-Mar-2024	0.532900	17.837800	27.711600	4.521480	63.160441	2.622510	0.043108	0.451296	0.065485	0.004815	0.002930	0.178063	0.000834	0.017328	0.009684	0.002712	0.027120
30-Mar-2024	0.532896	18.032300	28.013600	4.570770	63.849084	2.651100	0.043578	0.456215	0.066199	0.004868	0.002962	0.180004	0.000843	0.017517	0.009790	0.002742	0.027416
31-Mar-2024	0.532896	18.235300	28.329000	4.622230	64.567887	2.680950	0.044069	0.461352	0.066944	0.004923	0.002996	0.182030	0.000853	0.017714	0.009900	0.002772	0.027724
1-Apr-2024	0.532896	18.442700	28.651300	4.674810	65.302289	2.711440	0.044570	0.466600	0.067706	0.004979	0.003030	0.184101	0.000862	0.017916	0.010013	0.002804	0.028040
2-Apr-2024	0.532897	18.605300	28.903900	4.716020	65.878004	2.735350	0.044963	0.470714	0.068303	0.005023	0.003056	0.185724	0.000870	0.018074	0.010101	0.002829	0.028287
3-Apr-2024	0.532897	18.706000	29.060200	4.741530	66.234503	2.750140	0.045206	0.473260	0.068672	0.005050	0.003073	0.186729	0.000875	0.018172	0.010156	0.002844	0.028440
4-Apr-2024	0.532897	18.776200	29.169300	4.759340	66.483134	2.760470	0.045376	0.475037	0.068930	0.005069	0.003085	0.187430	0.000878	0.018240	0.010194	0.002855	0.028547
5-Apr-2024	0.532897	18.827700	29.249400	4.772400	66.665510	2.768040	0.045500	0.476341	0.069119	0.005083	0.003093	0.187944	0.000880	0.018290	0.010222	0.002863	0.028625
6-Apr-2024	0.532897	18.866400	29.309500	4.782200	66.802500	2.773730	0.045594	0.477319	0.069261	0.005093	0.003099	0.188330	0.000882	0.018327	0.010243	0.002868	0.028684
7-Apr-2024	0.532897	18.896100	29.355600	4.789730	66.907670	2.778090	0.045666	0.478070	0.069370	0.005101	0.003104	0.188627	0.000884	0.018356	0.010259	0.002873	0.028729

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Apr-2024	0.532897	18.919400	29.391900	4.795650	66.990229	2.781530	0.045722	0.478661	0.069456	0.005107	0.003108	0.188860	0.000885	0.018379	0.010272	0.002876	0.028765
9-Apr-2024	0.532897	18.938300	29.421200	4.800430	67.057106	2.784300	0.045768	0.479138	0.069525	0.005112	0.003111	0.189048	0.000886	0.018397	0.010282	0.002879	0.028793
10-Apr-2024	0.532897	18.953900	29.445500	4.804390	67.112366	2.786600	0.045806	0.479534	0.069583	0.005117	0.003114	0.189204	0.000886	0.018413	0.010290	0.002882	0.028817
11-Apr-2024	0.532897	18.967200	29.466000	4.807740	67.159372	2.788550	0.045837	0.479868	0.069631	0.005120	0.003116	0.189336	0.000887	0.018425	0.010297	0.002884	0.028837
12-Apr-2024	0.532897	18.978500	29.483600	4.810620	67.199448	2.790210	0.045865	0.480155	0.069673	0.005123	0.003118	0.189449	0.000887	0.018436	0.010304	0.002885	0.028854
13-Apr-2024	0.532894	18.988400	29.499100	4.813130	67.234504	2.791670	0.045889	0.480406	0.069709	0.005126	0.003119	0.189548	0.000888	0.018446	0.010309	0.002887	0.028869
14-Apr-2024	0.532894	18.997300	29.512800	4.815370	67.265952	2.792970	0.045910	0.480630	0.069742	0.005128	0.003121	0.189637	0.000888	0.018455	0.010314	0.002888	0.028883
15-Apr-2024	0.532894	19.005200	29.525200	4.817400	67.294038	2.794140	0.045930	0.480832	0.069771	0.005131	0.003122	0.189716	0.000889	0.018462	0.010318	0.002890	0.028895
16-Apr-2024	0.532894	19.012500	29.536400	4.819220	67.319760	2.795200	0.045947	0.481014	0.069797	0.005132	0.003123	0.189788	0.000889	0.018469	0.010322	0.002891	0.028906
17-Apr-2024	0.532894	19.019000	29.546500	4.820880	67.342827	2.796160	0.045963	0.481180	0.069821	0.005134	0.003124	0.189854	0.000889	0.018476	0.010326	0.002892	0.028916
18-Apr-2024	0.532894	19.024900	29.555800	4.822390	67.363777	2.797040	0.045977	0.481330	0.069843	0.005136	0.003125	0.189913	0.000890	0.018481	0.010329	0.002892	0.028925
19-Apr-2024	0.532894	19.030400	29.564200	4.823770	67.383194	2.797840	0.045990	0.481468	0.069863	0.005137	0.003126	0.189967	0.000890	0.018487	0.010332	0.002893	0.028933
20-Apr-2024	0.532895	19.035400	29.572000	4.825040	67.400909	2.798580	0.046002	0.481595	0.069882	0.005139	0.003127	0.190017	0.000890	0.018492	0.010335	0.002894	0.028941
21-Apr-2024	0.532895	19.040100	29.579300	4.826220	67.417504	2.799260	0.046014	0.481712	0.069899	0.005140	0.003128	0.190064	0.000890	0.018496	0.010337	0.002895	0.028948
22-Apr-2024	0.532895	19.044400	29.586000	4.827310	67.432729	2.799900	0.046024	0.481822	0.069914	0.005141	0.003129	0.190107	0.000891	0.018500	0.010339	0.002895	0.028955
23-Apr-2024	0.532894	19.048400	29.592200	4.828330	67.446918	2.800490	0.046034	0.481923	0.069929	0.005142	0.003129	0.190147	0.000891	0.018504	0.010342	0.002896	0.028961
24-Apr-2024	0.532880	18.010500	27.979800	4.565240	63.771877	2.647900	0.043525	0.455664	0.066119	0.004862	0.002959	0.179785	0.000842	0.017496	0.009778	0.002738	0.027383
25-Apr-2024	0.532880	18.014200	27.985600	4.566180	63.784987	2.648440	0.043534	0.455757	0.066132	0.004863	0.002959	0.179822	0.000842	0.017500	0.009780	0.002739	0.027388
26-Apr-2024	0.532880	18.017700	27.991100	4.567070	63.797391	2.648960	0.043543	0.455847	0.066145	0.004864	0.002960	0.179858	0.000843	0.017503	0.009782	0.002739	0.027394
27-Apr-2024	0.532880	18.021100	27.996400	4.567940	63.809464	2.649460	0.043551	0.455933	0.066158	0.004865	0.002961	0.179892	0.000843	0.017506	0.009784	0.002740	0.027399
28-Apr-2024	0.532880	18.024400	28.001500	4.568780	63.821163	2.649950	0.043559	0.456017	0.066170	0.004866	0.002961	0.179925	0.000843	0.017510	0.009786	0.002740	0.027404
29-Apr-2024	0.532879	18.027600	28.006400	4.569580	63.832448	2.650410	0.043567	0.456096	0.066182	0.004867	0.002962	0.179956	0.000843	0.017513	0.009787	0.002741	0.027409
30-Apr-2024	0.532865	18.028800	28.008300	4.569880	63.836679	2.650590	0.043570	0.456127	0.066186	0.004867	0.002962	0.179968	0.000843	0.017514	0.009788	0.002741	0.027410
1-May-2024	0.532777	19.010000	29.532500	4.818590	67.310924	2.794840	0.045941	0.480951	0.069788	0.005132	0.003123	0.189763	0.000889	0.018467	0.010321	0.002890	0.028902
2-May-2024	0.532388	18.857500	29.295600	4.779940	66.770970	2.772420	0.045572	0.477094	0.069228	0.005091	0.003098	0.188241	0.000882	0.018319	0.010238	0.002867	0.028670
3-May-2024	0.531853	18.542100	28.805700	4.700010	65.654265	2.726060	0.044810	0.469115	0.068071	0.005006	0.003046	0.185093	0.000867	0.018012	0.010067	0.002819	0.028191
4-May-2024	0.531494	18.169600	28.227000	4.605580	64.335270	2.671290	0.043910	0.459690	0.066703	0.004905	0.002985	0.181375	0.000850	0.017651	0.009864	0.002762	0.027625
5-May-2024	0.531016	17.750800	27.576400	4.499420	62.852359	2.609720	0.042898	0.449094	0.065166	0.004792	0.002916	0.177194	0.000830	0.017244	0.009637	0.002699	0.026988
6-May-2024	0.530568	17.351100	26.955500	4.398110	61.437114	2.550950	0.041932	0.438982	0.063698	0.004684	0.002850	0.173204	0.000811	0.016855	0.009420	0.002638	0.026380
7-May-2024	0.531568	17.013600	26.431200	4.312560	60.242081	2.501340	0.041116	0.430443	0.062459	0.004593	0.002795	0.169835	0.000796	0.016528	0.009237	0.002587	0.025867
8-May-2024	0.534390	16.702000	25.947100	4.233580	59.138776	2.455530	0.040363	0.422560	0.061315	0.004509	0.002744	0.166724	0.000781	0.016225	0.009068	0.002539	0.025393
9-May-2024	0.537251	16.424400	25.515800	4.163200	58.155784	2.414710	0.039692	0.415536	0.060296	0.004434	0.002698	0.163953	0.000768	0.015955	0.008917	0.002497	0.024971
10-May-2024	0.541628	16.305200	25.330600	4.132980	57.733696	2.397190	0.039404	0.412520	0.059858	0.004402	0.002679	0.162762	0.000762	0.015839	0.008852	0.002479	0.024790
11-May-2024	0.545726	16.067200	24.960900	4.072660	56.891012	2.362200	0.038829	0.406498	0.058985	0.004337	0.002640	0.160387	0.000751	0.015608	0.008723	0.002443	0.024428
12-May-2024	0.554962	15.811000	24.562900	4.007710	55.983817	2.324530	0.038210	0.400016	0.058044	0.004268	0.002597	0.157829	0.000739	0.015359	0.008584	0.002404	0.024039
13-May-2024	0.570292	15.625700	24.275000	3.960740	55.327700	2.297290	0.037762	0.395328	0.057364	0.004218	0.002567	0.155979	0.000731	0.015179	0.008483	0.002376	0.023757
14-May-2024	0.592381	14.799400	22.991500	3.751230	52.401667	2.175830	0.035765	0.374415	0.054329	0.003995	0.002431	0.147723	0.000692	0.014376	0.008035	0.002250	0.022501
15-May-2024	0.601142	14.721300	22.870200	3.731430	52.125115	2.164340	0.035576	0.372439	0.054042	0.003974	0.002418	0.146944	0.000688	0.014301	0.007992	0.002238	0.022382
16-May-2024	0.616965	14.611600	22.699700	3.703620	51.736672	2.148210	0.035311	0.369663	0.053640	0.003944	0.002400	0.145849	0.000683	0.014194	0.007933	0.002222	0.022215
17-May-2024	0.636070	14.460600	22.465200	3.665370	51.202112	2.126020	0.034946	0.365844	0.053086	0.003904	0.002376	0.144342	0.000676	0.014047	0.007851	0.002199	0.021986
18-May-2024	0.634854	14.358700	22.306800	3.639520	50.841217	2.111020	0.034699	0.363264	0.052711	0.003876	0.002359	0.143324	0.000671	0.013948	0.007795	0.002183	0.021831
19-May-2024	0.630289	14.169100	22.012200	3.591470	50.169916	2.083140	0.034241	0.358467	0.052016	0.003825	0.002328	0.141432	0.000663	0.013764	0.007693	0.002154	0.021542
20-May-2024	0.632132	13.839500	21.500200	3.507980	49.003093	2.034670	0.033445	0.350126	0.050808	0.003736	0.002274	0.138146	0.000647	0.013444	0.007514	0.002104	0.021041
21-May-2024	0.644333	13.505100	20.980600	3.423240	47.819137	1.985490	0.032636	0.341664	0.049581	0.003646	0.002219	0.134810	0.000632	0.013120	0.007332	0.002053	0.020533
22-May-2024	0.660216	13.291600	20.648900	3.369120	47.063161	1.954090	0.032120	0.336261	0.048798	0.003588	0.002184	0.132679	0.000622	0.012912	0.007216	0.002021	0.020208
23-May-2024	0.675656	12.983000	20.169200	3.290950	45.970683	1.908670	0.031374	0.328448	0.047668	0.003505	0.002133	0.129602	0.000607	0.012613	0.007049	0.001974	0.019739
24-May-2024	0.685967	13.129300	20.395800	3.328250	46.489596	1.930030	0.031726	0.332133	0.048215	0.003544	0.002157	0.131081	0.000614	0.012756	0.007128	0.001996	0.019961
25-May-2024	0.696724	12.334200	19.161100	3.126540	43.673589	1.813240	0.029805	0.312029	0.045288	0.003329	0.002027	0.123130	0.000577	0.011982	0.006696	0.001875	0.018752
26-May-2024	0.710225	12.095200	18.789700	3.065980	42.827420	1.778090	0.029228	0.305979	0.044411	0.003265	0.001987	0.120746	0.000566	0.011750	0.006567	0.001839	0.018389
27-May-2024	0.728741	11.829500	18.376700	2.998680	41.886826	1.738990	0.028585	0.299253	0.043438	0.003193	0.001944	0.118098	0.000553	0.011493	0.006422	0.001798	0.017984
28-May-2024	0.753434	11.702200	18.179000	2.966460	41.436276	1.720260	0.028277	0.296031	0.042973	0.003159	0.001923	0.116830	0.000547	0.011369	0.006353	0.001779	0.017791
29-May-2024	0.772740	11.633200	18.071600	2.948970	41.191959	1.710100	0.028111	0.294287	0.042719	0.003140	0.001912	0.116143	0.000544	0.011302	0.006316	0.001769	0.017686

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30-May-2024	0.781953	11.531200	17.912900	2.923230	40.831268	1.695070	0.027865	0.291716	0.042346	0.003113	0.001895	0.115138	0.000539	0.011203	0.006260	0.001753	0.017531
31-May-2024	0.796995	11.432600	17.759300	2.898350	40.482608	1.680530	0.027628	0.289230	0.041987	0.003086	0.001879	0.114168	0.000535	0.011108	0.006207	0.001738	0.017381
1-Jun-2024	0.908187	11.355400	17.639200	2.878810	40.209373	1.669150	0.027440	0.287270	0.041705	0.003065	0.001866	0.113399	0.000531	0.011033	0.006165	0.001726	0.017263
2-Jun-2024	0.995066	11.165700	17.338700	2.832410	39.544617	1.640320	0.026987	0.282548	0.041103	0.003012	0.001838	0.111636	0.000522	0.010857	0.006061	0.001698	0.016978
3-Jun-2024	1.235171	10.995300	17.065800	2.791550	38.950867	1.614020	0.026585	0.278363	0.043633	0.002964	0.001815	0.110124	0.000513	0.010703	0.005967	0.001672	0.016723
4-Jun-2024	1.535499	10.834400	16.787300	2.758830	38.414359	1.586320	0.026232	0.274774	0.041418	0.002914	0.001821	0.109389	0.000504	0.010585	0.005876	0.001649	0.016493
5-Jun-2024	1.461938	10.597600	16.387700	2.707760	37.612763	1.546810	0.025697	0.269271	0.040879	0.002841	0.001795	0.107830	0.000492	0.010398	0.005743	0.001615	0.016150
6-Jun-2024	1.401892	10.468900	16.176900	2.678210	37.169712	1.526070	0.025395	0.266139	0.040220	0.002803	0.001777	0.106657	0.000485	0.010288	0.005672	0.001596	0.015960
7-Jun-2024	1.363281	10.259500	15.831000	2.630990	36.452388	1.491970	0.024907	0.261114	0.039917	0.002741	0.001758	0.105299	0.000474	0.010124	0.005555	0.001565	0.015652
8-Jun-2024	1.453616	10.072500	15.518100	2.591050	35.820976	1.460790	0.024471	0.256607	0.040019	0.002684	0.001739	0.103925	0.000464	0.009975	0.005451	0.001538	0.015379
9-Jun-2024	1.655967	9.883180	15.195900	2.551130	35.183854	1.428310	0.024029	0.252044	0.039849	0.002625	0.001723	0.102664	0.000454	0.009830	0.005344	0.001510	0.015103
10-Jun-2024	1.947553	9.753010	14.975100	2.523150	34.743598	1.405740	0.023708	0.248686	0.039531	0.002584	0.001715	0.101640	0.000447	0.009724	0.005271	0.001491	0.014911
11-Jun-2024	2.192627	9.583770	14.683900	2.487140	34.172716	1.376230	0.023317	0.244709	0.039117	0.002531	0.001706	0.100691	0.000438	0.009594	0.005175	0.001467	0.014667
12-Jun-2024	2.416703	9.405860	14.373600	2.451650	33.582327	1.344630	0.022916	0.240469	0.038971	0.002473	0.001693	0.099615	0.000428	0.009458	0.005074	0.001441	0.014413
13-Jun-2024	2.679760	9.219860	14.050600	2.414060	32.963090	1.311930	0.022499	0.236151	0.038585	0.002413	0.001675	0.098434	0.000417	0.009323	0.004968	0.001415	0.014147
14-Jun-2024	2.962972	9.045290	13.749500	2.378110	32.379146	1.281370	0.022096	0.232046	0.038238	0.002358	0.001660	0.097306	0.000407	0.009196	0.004869	0.001389	0.013895
15-Jun-2024	3.249553	8.875360	13.456800	2.344370	31.815890	1.251700	0.021727	0.227871	0.037925	0.002305	0.001646	0.096183	0.000398	0.009076	0.004773	0.001365	0.013651
16-Jun-2024	3.531490	8.696390	13.152200	2.305300	31.208111	1.220900	0.021295	0.222898	0.037569	0.002249	0.001626	0.094979	0.000388	0.008933	0.004672	0.001339	0.013386
17-Jun-2024	3.763427	8.524000	12.855100	2.269230	30.629117	1.191160	0.020892	0.219191	0.037391	0.002196	0.001618	0.093936	0.000379	0.008805	0.004575	0.001314	0.013135
18-Jun-2024	3.858064	8.361530	12.574500	2.235530	30.084653	1.163250	0.020562	0.214314	0.037133	0.002148	0.001600	0.092955	0.000370	0.008682	0.004483	0.001290	0.012899
19-Jun-2024	4.021032	8.233630	12.360300	2.206740	29.646729	1.141530	0.020247	0.211332	0.037008	0.002109	0.001593	0.092114	0.000363	0.008572	0.004412	0.001271	0.012705
20-Jun-2024	4.168064	8.113810	12.154100	2.183320	29.251095	1.121440	0.020044	0.208447	0.036880	0.002074	0.001583	0.091534	0.000356	0.008495	0.004344	0.001253	0.012534
21-Jun-2024	4.213213	7.971040	11.895300	2.154380	28.775424	1.096640	0.019738	0.205314	0.036738	0.002030	0.001573	0.090752	0.000348	0.008393	0.004262	0.001233	0.012328
22-Jun-2024	4.272758	7.855250	11.710200	2.129120	28.382275	1.077200	0.019488	0.202470	0.036565	0.001997	0.001563	0.090086	0.000342	0.008303	0.004198	0.001215	0.012152
23-Jun-2024	4.412895	7.705420	11.434900	2.099530	27.886298	1.050730	0.019159	0.199160	0.036465	0.001949	0.001553	0.089280	0.000333	0.008198	0.004112	0.001194	0.011940
24-Jun-2024	4.559618	7.583420	11.238300	2.072410	27.469984	1.029540	0.018879	0.196047	0.036468	0.001914	0.001544	0.088589	0.000327	0.008102	0.004045	0.001175	0.011749
25-Jun-2024	4.861239	7.448190	10.984700	2.049950	27.039825	1.005560	0.018577	0.193450	0.036344	0.001871	0.001538	0.087851	0.000318	0.008020	0.003966	0.001158	0.011577
26-Jun-2024	5.088942	7.315750	10.754600	2.022420	26.595753	0.981222	0.018270	0.190278	0.036183	0.001829	0.001529	0.087138	0.000311	0.007921	0.003891	0.001138	0.011382
27-Jun-2024	5.335509	7.180770	10.523400	1.994710	26.144598	0.959129	0.017977	0.187110	0.036029	0.001792	0.001520	0.086444	0.000303	0.007824	0.003816	0.001118	0.011184
28-Jun-2024	5.562719	7.062220	10.312200	1.970500	25.748882	0.935798	0.017673	0.184338	0.036001	0.001751	0.001513	0.085764	0.000296	0.007740	0.003747	0.001101	0.011010
29-Jun-2024	5.822797	6.942470	10.102200	1.946330	25.350335	0.915594	0.017427	0.181588	0.035762	0.001717	0.001504	0.085170	0.000290	0.007655	0.003680	0.001084	0.010836
30-Jun-2024	6.017998	6.825210	9.904210	1.921200	24.954051	0.896968	0.017191	0.178757	0.035599	0.001686	0.001497	0.084649	0.000283	0.007568	0.003616	0.001066	0.010657
1-Jul-2024	6.067237	6.639540	9.597130	1.875350	24.301623	0.865753	0.016691	0.173420	0.034592	0.001643	0.001465	0.083443	0.000274	0.007402	0.003513	0.001035	0.010354
2-Jul-2024	8.117403	6.373160	9.180110	1.797300	23.315062	0.824127	0.015910	0.165517	0.034048	0.001566	0.001428	0.081963	0.000262	0.007197	0.003381	0.000998	0.009977
3-Jul-2024	9.335016	6.573800	9.561850	1.822060	23.918022	0.862652	0.016219	0.168576	0.034098	0.001634	0.001415	0.082402	0.000275	0.007331	0.003506	0.001028	0.010275
4-Jul-2024	11.313067	6.132380	8.768140	1.736480	22.463378	0.789438	0.015523	0.161652	0.033395	0.001540	0.001388	0.081279	0.000249	0.007035	0.003259	0.000960	0.009596
5-Jul-2024	10.828331	6.379080	9.215860	1.772820	23.229036	0.834961	0.016004	0.166515	0.033723	0.001620	0.001391	0.081828	0.000264	0.007220	0.003408	0.000997	0.009967
6-Jul-2024	12.353329	6.438530	9.325430	1.781510	23.413268	0.846410	0.016122	0.167686	0.033746	0.001642	0.001390	0.082297	0.000268	0.007261	0.003444	0.001005	0.010053
7-Jul-2024	11.432524	6.151080	8.811640	1.735510	22.506077	0.794937	0.015563	0.162091	0.033067	0.001558	0.001379	0.081056	0.000251	0.007025	0.003270	0.000961	0.009610
8-Jul-2024	11.570433	6.122390	8.762200	1.731350	22.417307	0.789869	0.015497	0.161416	0.032902	0.001551	0.001377	0.081361	0.000249	0.006994	0.003252	0.000956	0.009562
9-Jul-2024	12.453463	6.391220	9.243780	1.773410	23.261779	0.839878	0.016064	0.167224	0.033288	0.001646	0.001384	0.083502	0.000266	0.007205	0.003415	0.000996	0.009963
10-Jul-2024	12.446380	6.181720	8.857620	1.742240	22.610299	0.801762	0.015713	0.163836	0.032975	0.001588	0.001380	0.082138	0.000253	0.007052	0.003288	0.000964	0.009643
11-Jul-2024	12.093984	6.236140	8.965700	1.750640	22.780777	0.810921	0.015735	0.163943	0.032964	0.001594	0.001380	0.081719	0.000256	0.007076	0.003319	0.000973	0.009729
12-Jul-2024	12.720218	6.459780	9.377130	1.787040	23.489101	0.851670	0.016124	0.167869	0.033160	0.001662	0.001385	0.082542	0.000270	0.007227	0.003452	0.001007	0.010067
13-Jul-2024	12.860718	6.900050	10.179900	1.855500	24.870374	0.932291	0.016933	0.175966	0.033751	0.001799	0.001394	0.083735	0.000297	0.007553	0.003718	0.001073	0.010732
14-Jul-2024	13.212139	6.962830	10.294300	1.863250	25.059050	0.943671	0.017036	0.176959	0.033886	0.001816	0.001395	0.083806	0.000301	0.007607	0.003758	0.001083	0.010828
15-Jul-2024	14.029880	6.712880	9.838620	1.827070	24.285936	0.898036	0.016590	0.172542	0.033459	0.001742	0.001390	0.083401	0.000286	0.007410	0.003605	0.001045	0.010447
16-Jul-2024	14.555000	6.855710	10.090400	1.849950	24.736802	0.924824	0.016920	0.175976	0.033665	0.001797	0.001394	0.084256	0.000294	0.007530	0.003692	0.001066	0.010657
17-Jul-2024	14.834745	7.136300	10.600300	1.891950	25.610391	0.976334	0.017443	0.181221	0.034081	0.001885	0.001400	0.085185	0.000311	0.007744	0.003863	0.001108	0.011080
18-Jul-2024	14.996231	7.205240	10.729900	1.902950	25.827832	0.988628	0.017538	0.182139	0.034123	0.001903	0.001401	0.085174	0.000315	0.007787	0.003904	0.001119	0.011186
19-Jul-2024	15.408147	6.950160	10.268300	1.864870	25.034084	0.941600	0.017042	0.177156	0.033673	0.001822	0.001395	0.084230	0.000300	0.007585	0.003747	0.001080	0.010801
20-Jul-2024	15.947755	6.979400	10.324800	1.870580	25.130610	0.946747	0.017074	0.177479	0.033629	0.001829	0.001396	0.084203	0.000302	0.007595	0.003763	0.001085	0.010845

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21-Jul-2024	16.269988	7.129470	10.598700	1.893580	25.600049	0.974162	0.017344	0.180163	0.033829	0.001875	0.001399	0.084644	0.000311	0.007706	0.003854	0.001107	0.011072
22-Jul-2024	16.493386	7.520640	11.312800	1.953560	26.823798	1.045630	0.018049	0.187200	0.034359	0.001994	0.001407	0.085787	0.000335	0.007997	0.004091	0.001166	0.011663
23-Jul-2024	17.004792	7.295500	10.904000	1.920450	26.125277	1.004380	0.017631	0.183030	0.033960	0.001925	0.001402	0.085094	0.000321	0.007819	0.003953	0.001132	0.011322
24-Jul-2024	17.531014	6.994950	10.356900	1.875820	25.191017	0.949322	0.017078	0.177484	0.033452	0.001834	0.001396	0.084245	0.000303	0.007585	0.003769	0.001087	0.010865
25-Jul-2024	17.791118	6.919550	10.219300	1.864980	24.958104	0.935459	0.016938	0.176066	0.033297	0.001812	0.001394	0.084044	0.000298	0.007525	0.003723	0.001075	0.010749
26-Jul-2024	16.738259	6.973200	10.318100	1.873910	25.128842	0.945190	0.017028	0.176946	0.033324	0.001828	0.001395	0.084195	0.000302	0.007559	0.003754	0.001083	0.010829
27-Jul-2024	16.249496	6.985140	10.340700	1.876550	25.169527	0.947255	0.017041	0.177068	0.033282	0.001832	0.001396	0.084231	0.000303	0.007562	0.003760	0.001085	0.010846
28-Jul-2024	15.745665	7.054420	10.467600	1.887910	25.389300	0.959887	0.017164	0.178288	0.033331	0.001854	0.001397	0.084465	0.000307	0.007609	0.003801	0.001095	0.010950
29-Jul-2024	15.589137	7.099190	10.550100	1.895600	25.532758	0.968104	0.017244	0.179105	0.033341	0.001869	0.001398	0.084630	0.000310	0.007637	0.003828	0.001102	0.011016
30-Jul-2024	15.709886	7.232670	10.795700	1.916960	25.954018	0.992425	0.017475	0.181423	0.033470	0.001909	0.001400	0.084964	0.000318	0.007729	0.003907	0.001122	0.011218
31-Jul-2024	15.603159	7.237520	10.802700	1.917530	25.968476	0.993376	0.017493	0.181610	0.033479	0.001913	0.001401	0.085138	0.000318	0.007736	0.003911	0.001122	0.011224
1-Aug-2024	14.899373	7.293220	10.906200	1.927420	26.148286	1.003420	0.017579	0.182468	0.033466	0.001931	0.001402	0.085267	0.000322	0.007767	0.003943	0.001131	0.011307
2-Aug-2024	15.067865	7.303410	10.926300	1.930040	26.184519	1.004610	0.017559	0.182211	0.033414	0.001934	0.001402	0.085269	0.000322	0.007767	0.003948	0.001132	0.011321
3-Aug-2024	15.248973	7.360820	11.032600	1.939760	26.367899	1.014440	0.017626	0.182818	0.033429	0.001950	0.001403	0.085382	0.000326	0.007803	0.003981	0.001141	0.011407
4-Aug-2024	15.306578	7.355730	11.026600	1.941060	26.360543	1.012370	0.017550	0.181975	0.033303	0.001948	0.001403	0.085284	0.000326	0.007783	0.003975	0.001140	0.011399
5-Aug-2024	15.477473	7.810570	11.858600	2.011300	27.785527	1.094940	0.018358	0.190045	0.033945	0.002085	0.001412	0.086575	0.000353	0.008119	0.004250	0.001209	0.012087
6-Aug-2024	14.662051	7.373840	11.061200	1.945120	26.422483	1.014880	0.017539	0.181802	0.033220	0.001952	0.001403	0.085291	0.000327	0.007787	0.003984	0.001142	0.011423
7-Aug-2024	14.390341	7.408480	11.126200	1.951900	26.536899	1.020450	0.017560	0.181950	0.033183	0.001963	0.001404	0.085372	0.000329	0.007802	0.004004	0.001147	0.011474
8-Aug-2024	14.467520	7.567600	11.418700	1.978030	27.041825	1.048580	0.017794	0.184228	0.033303	0.002011	0.001407	0.085830	0.000339	0.007909	0.004098	0.001171	0.011713
9-Aug-2024	14.369720	7.536260	11.363000	1.973770	26.946026	1.042510	0.017716	0.183421	0.033221	0.002001	0.001407	0.085665	0.000337	0.007880	0.004078	0.001167	0.011667
10-Aug-2024	13.451033	7.644270	11.559200	1.991380	27.288245	1.061880	0.017896	0.185229	0.033320	0.002037	0.001409	0.086130	0.000344	0.007957	0.004143	0.001183	0.011828
11-Aug-2024	12.991990	7.668090	11.603600	1.996140	27.367325	1.065670	0.017909	0.185322	0.033282	0.002045	0.001410	0.086214	0.000345	0.007967	0.004156	0.001186	0.011862
12-Aug-2024	13.087598	7.615000	11.507300	1.989120	27.205851	1.055370	0.017783	0.184033	0.033127	0.002029	0.001409	0.086067	0.000342	0.007921	0.004122	0.001178	0.011779
13-Aug-2024	13.226741	7.885170	12.000800	2.030320	28.050127	1.104660	0.018265	0.188832	0.033505	0.002110	0.001414	0.086814	0.000358	0.008122	0.004286	0.001219	0.012187
14-Aug-2024	13.134467	8.172730	12.526600	2.074620	28.950592	1.156910	0.018766	0.193800	0.033894	0.002198	0.001420	0.087612	0.000376	0.008334	0.004460	0.001262	0.012623
15-Aug-2024	13.418916	8.231750	12.635600	2.085370	29.142233	1.166840	0.018827	0.194353	0.033898	0.002217	0.001421	0.087822	0.000380	0.008368	0.004494	0.001271	0.012711
16-Aug-2024	14.221331	8.163000	12.510700	2.077090	28.936468	1.153200	0.018670	0.192777	0.033741	0.002199	0.001420	0.087852	0.000375	0.008308	0.004450	0.001261	0.012605
17-Aug-2024	13.278796	7.967700	12.154900	2.048210	28.329876	1.117010	0.018271	0.188716	0.033350	0.002140	0.001416	0.087211	0.000364	0.008152	0.004330	0.001231	0.012308
18-Aug-2024	13.002214	7.822320	11.891000	2.027010	27.879560	1.089800	0.017973	0.185697	0.033042	0.002094	0.001413	0.086725	0.000355	0.008035	0.004240	0.001209	0.012085
19-Aug-2024	13.291063	7.850270	11.944600	2.032540	27.972124	1.094090	0.017975	0.185650	0.032989	0.002101	0.001414	0.086700	0.000357	0.008045	0.004255	0.001213	0.012126
20-Aug-2024	12.512002	7.929460	12.091300	2.045570	28.223519	1.108010	0.018085	0.186699	0.033052	0.002124	0.001415	0.086859	0.000362	0.008097	0.004302	0.001225	0.012247
21-Aug-2024	12.252418	8.142550	12.487300	2.081240	28.902494	1.145220	0.018360	0.189312	0.033189	0.002186	0.001419	0.087236	0.000375	0.008230	0.004427	0.001257	0.012572
22-Aug-2024	12.259873	8.443750	13.030400	2.124550	29.832941	1.201570	0.018989	0.195705	0.033722	0.002281	0.001426	0.088334	0.000393	0.008478	0.004614	0.001302	0.013023
23-Aug-2024	12.292167	8.393130	12.938600	2.117580	29.677840	1.191870	0.018874	0.194531	0.033598	0.002266	0.001425	0.088190	0.000390	0.008435	0.004582	0.001295	0.012946
24-Aug-2024	12.204016	8.464420	13.069800	2.129160	29.903538	1.204480	0.018979	0.195553	0.033655	0.002287	0.001426	0.088376	0.000394	0.008483	0.004624	0.001305	0.013053
25-Aug-2024	12.099814	8.356730	12.874200	2.113920	29.571877	1.184170	0.018751	0.193231	0.033430	0.002255	0.001424	0.088079	0.000388	0.008394	0.004558	0.001289	0.012888
26-Aug-2024	12.317298	8.328000	12.823300	2.111040	29.488279	1.177960	0.018648	0.192129	0.033285	0.002246	0.001424	0.087970	0.000386	0.008362	0.004538	0.001284	0.012842
27-Aug-2024	12.318467	8.038380	12.295600	2.069250	28.593006	1.123740	0.018062	0.186163	0.032766	0.002160	0.001418	0.087259	0.000369	0.008132	0.004360	0.001240	0.012400
28-Aug-2024	12.592365	8.424490	13.001000	2.127650	29.797614	1.194480	0.018763	0.193185	0.033324	0.002276	0.001426	0.088289	0.000392	0.008422	0.004594	0.001299	0.012986
29-Aug-2024	12.874504	8.542420	13.221800	2.148600	30.178358	1.214400	0.018881	0.194289	0.033388	0.002310	0.001428	0.088553	0.000399	0.008488	0.004662	0.001317	0.013166
30-Aug-2024	12.305912	8.301920	12.769900	2.109610	29.417268	1.169960	0.018469	0.190046	0.033117	0.002245	0.001424	0.088323	0.000384	0.008338	0.004520	0.001279	0.012791
31-Aug-2024	11.174906	8.199740	12.589000	2.096880	29.109703	1.150730	0.018237	0.187738	0.032792	0.002214	0.001422	0.087923	0.000378	0.008238	0.004454	0.001264	0.012636
1-Sep-2024	10.667167	8.229540	12.644800	2.102280	29.206350	1.155700	0.018262	0.187943	0.032768	0.002223	0.001422	0.087992	0.000380	0.008254	0.004471	0.001268	0.012680
2-Sep-2024	10.593912	8.376970	12.915400	2.124620	29.666479	1.182710	0.018519	0.190511	0.032959	0.002268	0.001425	0.088390	0.000389	0.008362	0.004561	0.001290	0.012903
3-Sep-2024	10.876147	8.816830	13.719200	2.191260	31.039233	1.263320	0.019318	0.198498	0.033596	0.002401	0.001433	0.089590	0.000416	0.008691	0.004828	0.001357	0.013570
4-Sep-2024	10.257994	8.439400	13.032900	2.133820	29.860253	1.194390	0.018617	0.191471	0.032977	0.002289	0.001424	0.088542	0.000393	0.008402	0.004599	0.001300	0.012996
5-Sep-2024	9.974680	8.529150	13.202000	2.147340	30.140034	1.210900	0.018747	0.192734	0.033007	0.002316	0.001424	0.088666	0.000399	0.008458	0.004653	0.001313	0.013130
6-Sep-2024	9.973372	8.815590	13.723600	2.190910	31.034696	1.263320	0.019277	0.198049	0.033454	0.002403	0.001431	0.089488	0.000416	0.008676	0.004827	0.001357	0.013565
7-Sep-2024	9.936306	8.657520	13.434500	2.167020	30.541616	1.234230	0.018985	0.195116	0.033206	0.002355	0.001427	0.089081	0.000407	0.008558	0.004731	0.001332	0.013324
8-Sep-2024	9.221501	8.627890	13.383500	2.162440	30.448769	1.228950	0.018912	0.194375	0.033096	0.002349	0.001425	0.088996	0.000405	0.008529	0.004713	0.001328	0.013278
9-Sep-2024	8.771648	8.704530	13.523700	2.174180	30.688485	1.242920	0.019045	0.195694	0.033189	0.002373	0.001427	0.089250	0.000410	0.008585	0.004759	0.001339	0.013393
10-Sep-2024	8.539959	8.912620	13.904600	2.205870	31.338585	1.280920	0.019412	0.199355	0.033463	0.002436	0.001431	0.089786	0.000423	0.008739	0.004885	0.001371	0.013708

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Sep-2024	8.610136	8.668570	13.463000	2.168880	30.576867	1.236300	0.018940	0.194580	0.033012	0.002364	0.001424	0.089100	0.000408	0.008546	0.004737	0.001333	0.013335
12-Sep-2024	8.633024	8.968060	14.009000	2.214470	31.512433	1.291000	0.019482	0.200006	0.033449	0.002455	0.001430	0.089969	0.000426	0.008772	0.004919	0.001379	0.013788
13-Sep-2024	9.005556	9.099020	14.250900	2.234140	31.920441	1.315140	0.019713	0.202321	0.033618	0.002493	0.001432	0.090196	0.000434	0.008866	0.004998	0.001399	0.013988
14-Sep-2024	8.902869	8.948990	13.979500	2.211320	31.451844	1.287750	0.019424	0.199399	0.033342	0.002449	0.001428	0.089769	0.000425	0.008748	0.004907	0.001376	0.013759
15-Sep-2024	9.042464	8.946870	13.976900	2.211060	31.445479	1.287360	0.019409	0.199237	0.033303	0.002449	0.001427	0.089761	0.000425	0.008743	0.004905	0.001375	0.013755
16-Sep-2024	8.961862	9.364180	14.739300	2.274490	32.748707	1.363720	0.020163	0.206773	0.033904	0.002576	0.001436	0.090910	0.000451	0.009055	0.005159	0.001439	0.014387
17-Sep-2024	9.171794	9.296070	14.619300	2.263920	32.535109	1.351400	0.020018	0.205303	0.033738	0.002554	0.001433	0.090572	0.000447	0.008996	0.005117	0.001428	0.014284
18-Sep-2024	9.326171	9.574690	15.128800	2.306290	33.405303	1.402340	0.020512	0.210216	0.034115	0.002640	0.001438	0.091382	0.000464	0.009203	0.005286	0.001470	0.014705
19-Sep-2024	8.774690	9.355430	14.734100	2.272580	32.718993	1.362550	0.020090	0.205975	0.033714	0.002574	0.001431	0.090643	0.000451	0.009028	0.005153	0.001437	0.014372
20-Sep-2024	8.370071	9.528580	15.050800	2.298930	33.259858	1.394200	0.020398	0.209044	0.033948	0.002627	0.001434	0.091127	0.000461	0.009156	0.005258	0.001463	0.014634
21-Sep-2024	8.295106	9.764290	15.484900	2.334610	33.995356	1.437480	0.020807	0.213118	0.034231	0.002698	0.001438	0.091688	0.000476	0.009326	0.005401	0.001499	0.014990
22-Sep-2024	8.055833	9.978220	15.876600	2.367220	34.663827	1.476630	0.021188	0.216926	0.034517	0.002763	0.001442	0.092259	0.000489	0.009484	0.005531	0.001531	0.015314
23-Sep-2024	7.575919	9.203200	14.460200	2.249860	32.245314	1.334490	0.019775	0.202786	0.033354	0.002529	0.001426	0.090154	0.000442	0.008902	0.005059	0.001414	0.014137
24-Sep-2024	6.850058	9.191590	14.439000	2.248220	32.209570	1.332310	0.019747	0.202494	0.033310	0.002527	0.001426	0.090177	0.000441	0.008892	0.005052	0.001412	0.014117
25-Sep-2024	6.455387	9.407080	14.835400	2.280730	32.881525	1.371890	0.020126	0.206268	0.033587	0.002592	0.001429	0.090696	0.000454	0.009049	0.005183	0.001444	0.014444
26-Sep-2024	5.788119	9.362370	14.755500	2.273920	32.741840	1.363790	0.020033	0.205328	0.033477	0.002580	0.001427	0.090592	0.000452	0.009011	0.005156	0.001437	0.014375
27-Sep-2024	5.602652	9.736490	15.437700	2.330870	33.910538	1.432150	0.020710	0.212096	0.034022	0.002694	0.001435	0.091668	0.000474	0.009293	0.005383	0.001494	0.014941
28-Sep-2024	5.215158	9.477320	14.967100	2.291580	33.101594	1.384740	0.020228	0.207261	0.033599	0.002614	0.001429	0.090822	0.000459	0.009093	0.005225	0.001455	0.014548
29-Sep-2024	5.088783	9.476720	14.970200	2.291270	33.098820	1.384790	0.020206	0.207011	0.033537	0.002614	0.001428	0.090744	0.000459	0.009085	0.005225	0.001455	0.014547
30-Sep-2024	4.349872	9.456260	14.933000	2.288240	33.035254	1.380980	0.020163	0.206569	0.033488	0.002608	0.001427	0.090672	0.000458	0.009068	0.005212	0.001451	0.014515
1-Oct-2024	4.230208	9.809190	15.577200	2.341890	34.137450	1.445510	0.020801	0.212943	0.034001	0.002716	0.001435	0.091674	0.000479	0.009333	0.005427	0.001505	0.015049
2-Oct-2024	4.044097	9.382580	14.800900	2.276660	32.803588	1.367700	0.020022	0.205152	0.033351	0.002586	0.001425	0.090384	0.000453	0.009009	0.005167	0.001440	0.014403
3-Oct-2024	4.020973	9.383610	14.802500	2.276830	32.806860	1.367900	0.020028	0.205219	0.033366	0.002586	0.001425	0.090387	0.000453	0.009011	0.005168	0.001441	0.014405
4-Oct-2024	3.888276	9.294900	14.640300	2.263200	32.529223	1.351720	0.019870	0.203641	0.033248	0.002559	0.001423	0.090137	0.000448	0.008945	0.005114	0.001427	0.014270
5-Oct-2024	3.551369	9.244160	14.547700	2.255160	32.369416	1.342620	0.019786	0.202809	0.033189	0.002544	0.001422	0.090029	0.000445	0.008909	0.005084	0.001419	0.014194
6-Oct-2024	3.106668	9.212130	14.489300	2.250140	32.268765	1.336830	0.019728	0.202230	0.033135	0.002535	0.001421	0.089973	0.000443	0.008885	0.005065	0.001414	0.014145
7-Oct-2024	2.284070	9.171430	14.414400	2.243740	32.140782	1.329520	0.019661	0.201567	0.033085	0.002524	0.001420	0.089868	0.000440	0.008856	0.005040	0.001408	0.014083
8-Oct-2024	1.464972	9.135710	14.349300	2.237860	32.027375	1.323220	0.019604	0.201017	0.033052	0.002513	0.001419	0.089749	0.000438	0.008831	0.005019	0.001403	0.014029
9-Oct-2024	0.950999	9.125630	14.331200	2.236120	31.995040	1.321470	0.019588	0.200856	0.033037	0.002510	0.001419	0.089701	0.000438	0.008824	0.005013	0.001401	0.014014
10-Oct-2024	0.426937	9.120360	14.322800	2.234890	31.976816	1.320690	0.019578	0.200757	0.033025	0.002508	0.001418	0.089645	0.000437	0.008819	0.005010	0.001401	0.014006
11-Oct-2024	0.173983	9.110970	14.306000	2.233290	31.946780	1.319070	0.019564	0.200620	0.033019	0.002504	0.001418	0.089581	0.000437	0.008812	0.005005	0.001399	0.013992
12-Oct-2024	0.130990	9.079390	14.247900	2.228330	31.847500	1.313400	0.019512	0.200116	0.032983	0.002496	0.001417	0.089649	0.000435	0.008790	0.004986	0.001394	0.013944
13-Oct-2024	0.070988	9.061610	14.216000	2.225290	31.790584	1.310310	0.019481	0.199813	0.032950	0.002491	0.001416	0.089530	0.000434	0.008776	0.004975	0.001392	0.013917
14-Oct-2024	0.083548	9.045520	14.186800	2.222640	31.739495	1.307480	0.019454	0.199547	0.032925	0.002487	0.001416	0.089576	0.000433	0.008764	0.004966	0.001389	0.013892
15-Oct-2024	0.123276	9.045540	14.187300	2.222510	31.739010	1.307540	0.019453	0.199538	0.032920	0.002487	0.001415	0.089475	0.000433	0.008764	0.004966	0.001389	0.013892
16-Oct-2024	0.108821	9.051530	14.193400	2.225030	31.764344	1.307990	0.019471	0.199728	0.032966	0.002489	0.001419	0.089663	0.000433	0.008773	0.004968	0.001390	0.013901
17-Oct-2024	0.111625	9.134970	14.320700	2.246700	32.061931	1.319590	0.019656	0.201644	0.033293	0.002513	0.001433	0.090555	0.000437	0.008857	0.005014	0.001403	0.014029
18-Oct-2024	0.110476	9.212130	14.441200	2.265780	32.333171	1.330690	0.019821	0.203335	0.033567	0.002535	0.001445	0.091359	0.000440	0.008932	0.005056	0.001415	0.014147
19-Oct-2024	0.113120	9.284170	14.553100	2.283830	32.587384	1.340970	0.019977	0.204941	0.033835	0.002555	0.001457	0.092249	0.000444	0.009002	0.005095	0.001426	0.014257
20-Oct-2024	0.119097	9.315640	14.605500	2.290610	32.693885	1.345900	0.020042	0.205599	0.033939	0.002562	0.001460	0.092294	0.000445	0.009031	0.005113	0.001431	0.014307
21-Oct-2024	0.122605	9.356190	14.668300	2.300830	32.837224	1.351660	0.020131	0.206511	0.034093	0.002573	0.001467	0.092717	0.000447	0.009071	0.005135	0.001437	0.014369
22-Oct-2024	0.122351	9.406080	14.745600	2.313400	33.013563	1.358750	0.020240	0.207634	0.034283	0.002587	0.001475	0.093240	0.000450	0.009120	0.005162	0.001445	0.014446
23-Oct-2024	0.122088	9.401740	14.737000	2.312930	33.000791	1.357890	0.020234	0.207573	0.034280	0.002586	0.001475	0.093263	0.000449	0.009117	0.005160	0.001444	0.014439
24-Oct-2024	0.122124	9.383960	14.707600	2.309030	32.940334	1.355130	0.020198	0.207211	0.034227	0.002581	0.001473	0.093132	0.000448	0.009101	0.005150	0.001441	0.014411
25-Oct-2024	0.120871	9.364860	14.674900	2.305290	32.877240	1.352010	0.020166	0.206892	0.034201	0.002575	0.001472	0.092983	0.000447	0.009086	0.005139	0.001438	0.014383
26-Oct-2024	0.119460	9.401050	14.732500	2.313900	33.003062	1.357350	0.020241	0.207660	0.034320	0.002585	0.001477	0.093331	0.000449	0.009120	0.005159	0.001444	0.014439
27-Oct-2024	0.116282	9.437760	14.789200	2.323160	33.132860	1.362550	0.020320	0.208478	0.034455	0.002596	0.001483	0.093732	0.000451	0.009157	0.005179	0.001449	0.014495
28-Oct-2024	0.114137	9.477700	14.853700	2.332390	33.270599	1.368560	0.020403	0.209316	0.034586	0.002607	0.001489	0.094098	0.000453	0.009193	0.005201	0.001456	0.014556
29-Oct-2024	0.113234	9.514680	14.912400	2.341490	33.400412	1.373990	0.020481	0.210122	0.034716	0.002617	0.001494	0.094461	0.000455	0.009229	0.005221	0.001461	0.014613
30-Oct-2024	0.111470	9.555550	14.979900	2.351070	33.541915	1.380330	0.020565	0.210979	0.034855	0.002628	0.001500	0.094855	0.000457	0.009267	0.005244	0.001468	0.014675
31-Oct-2024	0.110409	9.609040	15.063400	2.363460	33.726501	1.388010	0.020678	0.212131	0.035030	0.002642	0.001507	0.095255	0.000459	0.009317	0.005274	0.001476	0.014758
1-Nov-2024	0.109428	9.660040	15.143300	2.376010	33.905529	1.395380	0.020788	0.213257	0.035216	0.002657	0.001515	0.095762	0.000462	0.009367	0.005302	0.001484	0.014836

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Nov-2024	0.109462	9.687690	15.186100	2.382980	34.003274	1.399310	0.020848	0.213878	0.035321	0.002664	0.001520	0.096052	0.000463	0.009394	0.005317	0.001488	0.014878
3-Nov-2024	0.109549	9.697450	15.200900	2.385550	34.038228	1.400650	0.020870	0.214106	0.035361	0.002667	0.001522	0.096173	0.000464	0.009404	0.005322	0.001489	0.014893
4-Nov-2024	0.108526	9.708830	15.216400	2.389050	34.081056	1.402010	0.020899	0.214407	0.035421	0.002670	0.001524	0.096358	0.000464	0.009417	0.005328	0.001491	0.014911
5-Nov-2024	0.106609	9.732090	15.254800	2.394180	34.160262	1.405600	0.020945	0.214872	0.035487	0.002677	0.001527	0.096533	0.000465	0.009438	0.005341	0.001495	0.014946
6-Nov-2024	0.105844	9.767510	15.310700	2.402770	34.284079	1.410770	0.021020	0.215641	0.035611	0.002687	0.001532	0.096876	0.000467	0.009472	0.005361	0.001500	0.015001
7-Nov-2024	0.104828	9.810550	15.375700	2.414130	34.438331	1.416680	0.021115	0.216618	0.035774	0.002700	0.001540	0.097419	0.000469	0.009515	0.005384	0.001507	0.015066
8-Nov-2024	0.103544	9.851920	15.437100	2.425380	34.587959	1.422220	0.021207	0.217573	0.035937	0.002713	0.001548	0.097980	0.000471	0.009558	0.005406	0.001513	0.015128
9-Nov-2024	0.103028	9.887070	15.493900	2.433820	34.710485	1.427520	0.021281	0.218333	0.036060	0.002722	0.001553	0.098315	0.000472	0.009592	0.005426	0.001518	0.015183
10-Nov-2024	0.102626	9.919840	15.546400	2.441190	34.822661	1.432390	0.021350	0.219033	0.036173	0.002730	0.001557	0.098540	0.000474	0.009622	0.005444	0.001523	0.015233
11-Nov-2024	0.102113	9.958840	15.608700	2.450400	34.957971	1.438170	0.021432	0.219875	0.036308	0.002741	0.001563	0.098873	0.000476	0.009658	0.005465	0.001529	0.015293
12-Nov-2024	0.101871	9.988560	15.656400	2.457380	35.060925	1.442600	0.021495	0.220511	0.036410	0.002749	0.001567	0.099137	0.000477	0.009686	0.005482	0.001534	0.015339
13-Nov-2024	0.101547	10.023700	15.710900	2.466190	35.184949	1.447600	0.021570	0.221291	0.036538	0.002759	0.001573	0.099509	0.000479	0.009721	0.005501	0.001539	0.015393
14-Nov-2024	0.101151	10.061600	15.768800	2.476310	35.321260	1.452890	0.021655	0.222166	0.036688	0.002770	0.001580	0.099987	0.000481	0.009760	0.005522	0.001545	0.015451
15-Nov-2024	0.101096	10.122600	15.862500	2.491610	35.536582	1.461460	0.021787	0.223527	0.036915	0.002787	0.001590	0.100630	0.000484	0.009820	0.005555	0.001554	0.015544
16-Nov-2024	0.101164	10.174200	15.943900	2.504170	35.717149	1.468970	0.021898	0.224659	0.037101	0.002801	0.001598	0.101125	0.000486	0.009869	0.005583	0.001562	0.015623
17-Nov-2024	0.101289	10.231300	16.034200	2.517940	35.916433	1.477320	0.022020	0.225907	0.037305	0.002817	0.001606	0.101656	0.000489	0.009924	0.005615	0.001571	0.015711
18-Nov-2024	0.101543	10.290600	16.127700	2.532360	36.123887	1.485960	0.022147	0.227208	0.037519	0.002833	0.001616	0.102221	0.000492	0.009981	0.005647	0.001580	0.015802
19-Nov-2024	0.101578	10.343000	16.210500	2.544990	36.306740	1.493610	0.022259	0.228352	0.037706	0.002847	0.001623	0.102709	0.000494	0.010031	0.005676	0.001588	0.015883
20-Nov-2024	0.101109	10.406000	16.310200	2.560230	36.526809	1.502830	0.022393	0.229730	0.037931	0.002864	0.001633	0.103301	0.000497	0.010092	0.005711	0.001598	0.015980
21-Nov-2024	0.100489	10.466000	16.404600	2.574880	36.736958	1.511530	0.022522	0.231049	0.038148	0.002880	0.001642	0.103883	0.000500	0.010149	0.005744	0.001607	0.016072
22-Nov-2024	0.100026	10.516900	16.484100	2.587460	36.915860	1.518860	0.022632	0.232176	0.038335	0.002894	0.001650	0.104396	0.000503	0.010199	0.005772	0.001615	0.016150
23-Nov-2024	0.100031	10.566200	16.560500	2.599910	37.090231	1.525870	0.022739	0.233281	0.038519	0.002908	0.001658	0.104925	0.000505	0.010248	0.005799	0.001623	0.016226
24-Nov-2024	0.100096	10.640500	16.675600	2.618580	37.352641	1.536430	0.022900	0.234941	0.038796	0.002929	0.001671	0.105715	0.000508	0.010321	0.005839	0.001634	0.016339
25-Nov-2024	0.100215	10.719300	16.799000	2.638000	37.629376	1.547800	0.023070	0.236683	0.039084	0.002951	0.001683	0.106501	0.000512	0.010397	0.005882	0.001646	0.016461
26-Nov-2024	0.100175	10.754500	16.853700	2.646830	37.753632	1.552820	0.023147	0.237469	0.039215	0.002961	0.001689	0.106872	0.000514	0.010432	0.005902	0.001651	0.016514
27-Nov-2024	0.100240	10.777100	16.889500	2.652250	37.832384	1.556130	0.023195	0.237961	0.039296	0.002967	0.001692	0.107078	0.000515	0.010453	0.005914	0.001655	0.016549
28-Nov-2024	0.100246	10.789500	16.909200	2.655250	37.875701	1.557960	0.023221	0.238233	0.039340	0.002970	0.001694	0.107192	0.000516	0.010465	0.005921	0.001657	0.016568
29-Nov-2024	0.100133	10.823600	16.962600	2.663600	37.995234	1.562880	0.023294	0.238983	0.039464	0.002979	0.001699	0.107528	0.000517	0.010498	0.005940	0.001662	0.016621
30-Nov-2024	0.099999	10.864600	17.027100	2.673660	38.139038	1.568820	0.023383	0.239888	0.039613	0.002991	0.001706	0.107931	0.000519	0.010538	0.005962	0.001668	0.016684
1-Dec-2024	0.099939	10.919800	17.113500	2.687220	38.332713	1.576790	0.023501	0.241104	0.039814	0.003006	0.001714	0.108478	0.000522	0.010592	0.005992	0.001677	0.016768
2-Dec-2024	0.099878	10.962600	17.180500	2.697810	38.483194	1.582950	0.023594	0.242052	0.039971	0.003018	0.001721	0.108910	0.000524	0.010633	0.006016	0.001683	0.016834
3-Dec-2024	0.099850	10.975500	17.200700	2.701000	38.528542	1.584810	0.023621	0.242338	0.040018	0.003021	0.001723	0.109040	0.000524	0.010646	0.006023	0.001685	0.016854
4-Dec-2024	0.099885	11.010700	17.255800	2.709660	38.652098	1.589890	0.023697	0.243115	0.040146	0.003031	0.001729	0.109390	0.000526	0.010680	0.006042	0.001691	0.016908
5-Dec-2024	0.099894	11.044500	17.308700	2.718000	38.770841	1.594760	0.023770	0.243862	0.040270	0.003040	0.001734	0.109728	0.000528	0.010713	0.006061	0.001696	0.016960
6-Dec-2024	0.099869	11.080400	17.365100	2.726790	38.896680	1.599960	0.023847	0.244653	0.040400	0.003050	0.001740	0.110080	0.000529	0.010747	0.006081	0.001701	0.017015
7-Dec-2024	0.099669	11.095700	17.389400	2.730510	38.950203	1.602210	0.023880	0.244988	0.040455	0.003054	0.001742	0.110224	0.000530	0.010762	0.006089	0.001704	0.017039
8-Dec-2024	0.099602	11.124000	17.433600	2.737480	39.049571	1.606280	0.023941	0.245613	0.040558	0.003062	0.001746	0.110507	0.000532	0.010790	0.006105	0.001708	0.017082
9-Dec-2024	0.099627	11.075100	17.356700	2.725500	38.878134	1.599190	0.023836	0.244536	0.040381	0.003049	0.001739	0.110030	0.000529	0.010742	0.006078	0.001701	0.017007
10-Dec-2024	0.099669	11.089800	17.379800	2.729150	38.929870	1.601320	0.023867	0.244862	0.040435	0.003053	0.001741	0.110178	0.000530	0.010757	0.006086	0.001703	0.017030
11-Dec-2024	0.099596	11.142600	17.462500	2.742090	39.114999	1.608940	0.023981	0.246025	0.040626	0.003067	0.001749	0.110699	0.000532	0.010808	0.006115	0.001711	0.017110
12-Dec-2024	0.099542	11.188400	17.534400	2.753320	39.275607	1.615570	0.024079	0.247034	0.040792	0.003080	0.001757	0.111149	0.000535	0.010852	0.006140	0.001718	0.017181
13-Dec-2024	0.099517	11.235300	17.608100	2.764850	39.440196	1.622360	0.024180	0.248069	0.040963	0.003093	0.001764	0.111612	0.000537	0.010897	0.006166	0.001725	0.017253
14-Dec-2024	0.099408	11.282400	17.681800	2.776440	39.605533	1.629150	0.024281	0.249109	0.041135	0.003106	0.001771	0.112080	0.000539	0.010943	0.006191	0.001733	0.017325
15-Dec-2024	0.099391	11.333400	17.761700	2.789020	39.784684	1.636510	0.024391	0.250236	0.041321	0.003120	0.001779	0.112590	0.000542	0.010993	0.006219	0.001740	0.017404
16-Dec-2024	0.099399	11.378900	17.832900	2.800230	39.944460	1.643070	0.024489	0.251241	0.041487	0.003132	0.001786	0.113045	0.000544	0.011037	0.006244	0.001747	0.017473
17-Dec-2024	0.099269	11.414500	17.888800	2.809000	40.069469	1.648220	0.024566	0.252028	0.041617	0.003142	0.001792	0.113400	0.000545	0.011071	0.006264	0.001753	0.017528
18-Dec-2024	0.099257	11.461400	17.962200	2.820570	40.234223	1.654980	0.024667	0.253064	0.041788	0.003155	0.001799	0.113869	0.000548	0.011117	0.006290	0.001760	0.017600
19-Dec-2024	0.099235	11.446400	17.938500	2.816900	40.181655	1.652790	0.024635	0.252733	0.041734	0.003151	0.001797	0.113725	0.000547	0.011102	0.006281	0.001758	0.017577
20-Dec-2024	0.099111	11.488300	18.004200	2.827220	40.328777	1.658840	0.024725	0.253659	0.041886	0.003163	0.001804	0.114142	0.000549	0.011143	0.006304	0.001764	0.017641
21-Dec-2024	0.099137	11.536700	18.079900	2.839150	40.498760	1.665820	0.024829	0.254728	0.042063	0.003176	0.001811	0.114627	0.000551	0.011190	0.006331	0.001772	0.017716
22-Dec-2024	0.099132	11.585100	18.155800	2.851070	40.668701	1.672800	0.024933	0.255797	0.042240	0.003189	0.001819	0.115109	0.000554	0.011237	0.006357	0.001779	0.017790
23-Dec-2024	0.099053	11.631400	18.228400	2.862460	40.831216	1.679490	0.025033	0.256819	0.042408	0.003202	0.001826	0.115569	0.000556	0.011282	0.006383	0.001786	0.017861

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24-Dec-2024	0.099027	11.679700	18.304000	2.874360	41.000825	1.686460	0.025137	0.257886	0.042585	0.003215	0.001834	0.116051	0.000558	0.011329	0.006409	0.001794	0.017935
25-Dec-2024	0.098988	11.729300	18.381800	2.886580	41.174999	1.693630	0.025244	0.258982	0.042766	0.003229	0.001842	0.116544	0.000560	0.011377	0.006437	0.001801	0.018011
26-Dec-2024	0.098936	11.779100	18.459800	2.898810	41.349712	1.700820	0.025351	0.260080	0.042947	0.003243	0.001849	0.117037	0.000563	0.011425	0.006464	0.001809	0.018088
27-Dec-2024	0.098917	11.815500	18.516900	2.907780	41.477542	1.706080	0.025429	0.260885	0.043080	0.003253	0.001855	0.117400	0.000565	0.011461	0.006484	0.001814	0.018144
28-Dec-2024	0.098898	11.861400	18.588700	2.919080	41.638687	1.712690	0.025528	0.261898	0.043247	0.003266	0.001862	0.117858	0.000567	0.011505	0.006509	0.001821	0.018214
29-Dec-2024	0.098864	11.928300	18.693600	2.935550	41.873560	1.722360	0.025672	0.263375	0.043491	0.003284	0.001873	0.118523	0.000570	0.011570	0.006546	0.001832	0.018317
30-Dec-2024	0.098814	11.986200	18.784300	2.949800	42.076818	1.730710	0.025796	0.264653	0.043702	0.003300	0.001882	0.119099	0.000573	0.011626	0.006578	0.001841	0.018406
31-Dec-2024	0.098780	12.052200	18.887800	2.966060	42.308578	1.740250	0.025939	0.266111	0.043943	0.003318	0.001892	0.119756	0.000576	0.011690	0.006614	0.001851	0.018507
1-Jan-2025	0.098739	12.159900	19.056600	2.992550	42.686591	1.755800	0.026170	0.268488	0.044335	0.003348	0.001909	0.120825	0.000581	0.011795	0.006673	0.001867	0.018672
2-Jan-2025	0.098702	12.194900	19.111500	3.001160	42.809442	1.760860	0.026246	0.269262	0.044462	0.003357	0.001915	0.121172	0.000583	0.011829	0.006692	0.001873	0.018726
3-Jan-2025	0.098690	12.215000	19.143000	3.006100	42.879975	1.763760	0.026289	0.269705	0.044536	0.003363	0.001918	0.121372	0.000584	0.011848	0.006703	0.001876	0.018757
4-Jan-2025	0.098612	12.254100	19.204200	3.015720	43.017223	1.769400	0.026373	0.270567	0.044678	0.003374	0.001924	0.121761	0.000586	0.011886	0.006725	0.001882	0.018817
5-Jan-2025	0.098499	12.297700	19.272500	3.026460	43.170319	1.775700	0.026467	0.271531	0.044837	0.003386	0.001931	0.122196	0.000588	0.011928	0.006749	0.001888	0.018884
6-Jan-2025	0.098476	12.335800	19.332200	3.035860	43.304164	1.781190	0.026549	0.272372	0.044976	0.003396	0.001937	0.122578	0.000589	0.011965	0.006769	0.001894	0.018943
7-Jan-2025	0.098397	12.372400	19.389500	3.044870	43.432657	1.786480	0.026628	0.273180	0.045109	0.003406	0.001943	0.122943	0.000591	0.012001	0.006790	0.001900	0.018999
8-Jan-2025	0.098284	12.427100	19.475300	3.058340	43.624713	1.794380	0.026745	0.274388	0.045308	0.003421	0.001951	0.123487	0.000594	0.012054	0.006820	0.001908	0.019083
9-Jan-2025	0.098262	12.473500	19.547900	3.069790	43.787725	1.801060	0.026845	0.275414	0.045478	0.003434	0.001959	0.123954	0.000596	0.012099	0.006845	0.001915	0.019154
10-Jan-2025	0.098228	12.502600	19.593500	3.076960	43.889913	1.805270	0.026908	0.276056	0.045584	0.003442	0.001963	0.124244	0.000597	0.012127	0.006861	0.001920	0.019199
11-Jan-2025	0.098201	12.388100	19.413600	3.048920	43.488538	1.788680	0.026662	0.273535	0.045168	0.003411	0.001945	0.123126	0.000592	0.012017	0.006798	0.001902	0.019023
12-Jan-2025	0.098186	12.425700	19.472700	3.058110	43.620270	1.794130	0.026743	0.274361	0.045304	0.003421	0.001951	0.123491	0.000594	0.012053	0.006819	0.001908	0.019080
13-Jan-2025	0.098180	12.498600	19.586600	3.076120	43.876466	1.804610	0.026900	0.275973	0.045571	0.003441	0.001963	0.124227	0.000597	0.012124	0.006859	0.001919	0.019192
14-Jan-2025	0.098176	12.542100	19.654700	3.086900	44.029478	1.810880	0.026994	0.276938	0.045731	0.003453	0.001970	0.124667	0.000599	0.012166	0.006883	0.001926	0.019259
15-Jan-2025	0.098183	12.561400	19.685100	3.091540	44.096778	1.813700	0.027035	0.277358	0.045799	0.003459	0.001972	0.124846	0.000600	0.012185	0.006893	0.001929	0.019289
16-Jan-2025	0.098183	12.607000	19.756800	3.102750	44.256804	1.820300	0.027133	0.278365	0.045965	0.003471	0.001980	0.125296	0.000602	0.012229	0.006918	0.001936	0.019359
17-Jan-2025	0.098168	12.680100	19.871600	3.120660	44.513088	1.830880	0.027290	0.279976	0.046231	0.003491	0.001991	0.126012	0.000606	0.012299	0.006958	0.001947	0.019471
18-Jan-2025	0.098121	12.775000	20.020300	3.144010	44.846208	1.844590	0.027494	0.282071	0.046577	0.003517	0.002006	0.126954	0.000610	0.012392	0.007010	0.001962	0.019617
19-Jan-2025	0.098105	12.879000	20.183200	3.169610	45.211317	1.859600	0.027718	0.284367	0.046956	0.003546	0.002022	0.127988	0.000615	0.012492	0.007068	0.001978	0.019777
20-Jan-2025	0.098096	12.984400	20.348400	3.195540	45.581281	1.874820	0.027945	0.286693	0.047340	0.003575	0.002039	0.129035	0.000620	0.012595	0.007125	0.001994	0.019938
21-Jan-2025	0.098051	13.128800	20.574800	3.231030	46.087995	1.895680	0.028255	0.289879	0.047866	0.003615	0.002061	0.130464	0.000627	0.012735	0.007205	0.002016	0.020160
22-Jan-2025	0.098014	13.292100	20.830600	3.271260	46.661422	1.919250	0.028607	0.293487	0.048462	0.003660	0.002087	0.132093	0.000635	0.012893	0.007294	0.002041	0.020411
23-Jan-2025	0.098015	13.415000	21.023200	3.301550	47.093038	1.936990	0.028872	0.296204	0.048911	0.003694	0.002106	0.133319	0.000641	0.013012	0.007362	0.002060	0.020600
24-Jan-2025	0.098000	13.580600	21.282600	3.342280	47.674267	1.960890	0.029228	0.299858	0.049514	0.003739	0.002132	0.134962	0.000649	0.013173	0.007453	0.002085	0.020854
25-Jan-2025	0.097960	13.688000	21.451000	3.368730	48.051366	1.976400	0.029459	0.302231	0.049906	0.003769	0.002149	0.136032	0.000654	0.013277	0.007511	0.002102	0.021019
26-Jan-2025	0.097924	13.772400	21.583100	3.389510	48.347685	1.988570	0.029641	0.304093	0.050213	0.003792	0.002163	0.136872	0.000658	0.013359	0.007558	0.002115	0.021148
27-Jan-2025	0.097855	13.850100	21.705000	3.408660	48.620562	1.999800	0.029808	0.305812	0.050497	0.003813	0.002175	0.137647	0.000662	0.013435	0.007600	0.002127	0.021268
28-Jan-2025	0.097800	13.913300	21.803900	3.424220	48.842448	2.008920	0.029944	0.307206	0.050728	0.003831	0.002185	0.138276	0.000665	0.013496	0.007635	0.002136	0.021365
29-Jan-2025	0.097769	13.953400	21.866600	3.434080	48.983181	2.014700	0.030030	0.308091	0.050874	0.003842	0.002191	0.138676	0.000667	0.013535	0.007657	0.002143	0.021426
30-Jan-2025	0.097760	13.999500	21.938900	3.445450	49.145115	2.021350	0.030130	0.309110	0.051042	0.003855	0.002198	0.139137	0.000669	0.013579	0.007682	0.002150	0.021497
31-Jan-2025	0.097748	14.060100	22.033800	3.460380	49.357915	2.030090	0.030260	0.310449	0.051263	0.003871	0.002208	0.139742	0.000672	0.013638	0.007716	0.002159	0.021590
1-Feb-2025	0.097725	14.122400	22.131500	3.475730	49.576689	2.039090	0.030394	0.311826	0.051490	0.003889	0.002218	0.140363	0.000675	0.013699	0.007750	0.002169	0.021686
2-Feb-2025	0.097703	14.172200	22.209500	3.487990	49.751526	2.046280	0.030501	0.312925	0.051672	0.003902	0.002225	0.140858	0.000677	0.013747	0.007777	0.002176	0.021762
3-Feb-2025	0.097690	14.203000	22.257700	3.495560	49.859607	2.050720	0.030568	0.313604	0.051784	0.003911	0.002230	0.141164	0.000679	0.013777	0.007794	0.002181	0.021809
4-Feb-2025	0.097672	14.240700	22.316800	3.504830	49.991918	2.056160	0.030649	0.314436	0.051921	0.003921	0.002236	0.141538	0.000680	0.013813	0.007815	0.002187	0.021867
5-Feb-2025	0.097655	14.284400	22.385400	3.515600	50.145388	2.062490	0.030743	0.315402	0.052080	0.003933	0.002243	0.141973	0.000683	0.013856	0.007839	0.002193	0.021934
6-Feb-2025	0.097637	14.101800	22.099200	3.470660	49.504372	2.036120	0.030350	0.311370	0.051415	0.003883	0.002214	0.140159	0.000674	0.013679	0.007739	0.002165	0.021654
7-Feb-2025	0.097626	14.133000	22.148100	3.478330	49.613864	2.040630	0.030417	0.312058	0.051528	0.003892	0.002219	0.140469	0.000675	0.013709	0.007756	0.002170	0.021702
8-Feb-2025	0.097616	14.174400	22.213000	3.488520	49.759202	2.046600	0.030506	0.312972	0.051679	0.003903	0.002226	0.140880	0.000677	0.013749	0.007778	0.002177	0.021765
9-Feb-2025	0.097610	14.220900	22.285800	3.499950	49.922381	2.053310	0.030606	0.313998	0.051848	0.003916	0.002233	0.141342	0.000680	0.013794	0.007804	0.002184	0.021837
10-Feb-2025	0.097601	14.270100	22.362900	3.512060	50.095103	2.060420	0.030712	0.315084	0.052028	0.003929	0.002241	0.141830	0.000682	0.013842	0.007831	0.002191	0.021912
11-Feb-2025	0.097597	14.326800	22.451800	3.526000	50.294088	2.068600	0.030834	0.316335	0.052234	0.003945	0.002250	0.142393	0.000685	0.013897	0.007862	0.002200	0.021999
12-Feb-2025	0.097595	14.257200	22.342800	3.508870	50.049755	2.058560	0.030684	0.314798	0.051980	0.003926	0.002239	0.141701	0.000681	0.013829	0.007824	0.002189	0.021893
13-Feb-2025	0.097590	14.319800	22.440900	3.524280	50.269526	2.067610	0.030819	0.316180	0.052209	0.003943	0.002248	0.142323	0.000684	0.013890	0.007858	0.002199	0.021989

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Feb-2025	0.097586	14.380000	22.535300	3.539090	50.480833	2.076300	0.030948	0.317509	0.052428	0.003960	0.002258	0.142921	0.000687	0.013949	0.007891	0.002208	0.022081
15-Feb-2025	0.097583	14.443200	22.634200	3.554630	50.702637	2.085420	0.031084	0.318903	0.052658	0.003977	0.002268	0.143548	0.000690	0.014010	0.007926	0.002218	0.022178
16-Feb-2025	0.097578	14.507100	22.734500	3.570370	50.927012	2.094660	0.031222	0.320316	0.052891	0.003995	0.002278	0.144183	0.000693	0.014072	0.007961	0.002228	0.022276
17-Feb-2025	0.097574	14.571200	22.835000	3.586130	51.151970	2.103910	0.031360	0.321730	0.053125	0.004012	0.002288	0.144820	0.000696	0.014134	0.007996	0.002237	0.022375
18-Feb-2025	0.097570	14.635500	22.935700	3.601940	51.377632	2.113190	0.031498	0.323149	0.053359	0.004030	0.002298	0.145458	0.000699	0.014196	0.008031	0.002247	0.022473
19-Feb-2025	0.097565	14.699700	23.036300	3.617740	51.603004	2.122470	0.031636	0.324566	0.053593	0.004048	0.002308	0.146095	0.000702	0.014259	0.008067	0.002257	0.022572
20-Feb-2025	0.097559	14.767600	23.142800	3.634450	51.841362	2.132280	0.031782	0.326066	0.053840	0.004066	0.002319	0.146770	0.000706	0.014324	0.008104	0.002268	0.022676
21-Feb-2025	0.097555	14.849100	23.270800	3.654400	52.127022	2.144080	0.031957	0.327858	0.054135	0.004089	0.002331	0.147568	0.000710	0.014403	0.008149	0.002280	0.022801
22-Feb-2025	0.097549	14.942400	23.417000	3.677360	52.454541	2.157560	0.032158	0.329919	0.054475	0.004114	0.002346	0.148495	0.000714	0.014494	0.008200	0.002294	0.022945
23-Feb-2025	0.097544	15.039100	23.568500	3.701150	52.793968	2.171520	0.032366	0.332053	0.054828	0.004141	0.002361	0.149455	0.000719	0.014587	0.008253	0.002309	0.023093
24-Feb-2025	0.097538	15.144000	23.733000	3.726960	53.162189	2.186670	0.032592	0.334369	0.055210	0.004170	0.002378	0.150497	0.000724	0.014689	0.008311	0.002325	0.023254
25-Feb-2025	0.097535	15.254600	23.906100	3.754280	53.550861	2.202610	0.032830	0.336817	0.055615	0.004200	0.002395	0.151606	0.000729	0.014797	0.008371	0.002342	0.023424
26-Feb-2025	0.097528	15.099100	23.662300	3.715990	53.004900	2.180140	0.032495	0.333382	0.055048	0.004157	0.002371	0.150060	0.000722	0.014646	0.008286	0.002319	0.023185
27-Feb-2025	0.097524	15.157700	23.754300	3.730430	53.210688	2.188620	0.032622	0.334678	0.055262	0.004174	0.002380	0.150643	0.000724	0.014703	0.008318	0.002328	0.023275
28-Feb-2025	0.097522	15.223800	23.857700	3.746670	53.442616	2.198150	0.032764	0.336135	0.055503	0.004192	0.002390	0.151299	0.000727	0.014767	0.008354	0.002338	0.023377
1-Mar-2025	0.097521	15.287300	23.957300	3.762310	53.665581	2.207330	0.032901	0.337538	0.055734	0.004209	0.002400	0.151930	0.000731	0.014828	0.008389	0.002347	0.023474
2-Mar-2025	0.097521	15.355600	24.064400	3.779110	53.905308	2.217190	0.033048	0.339046	0.055983	0.004228	0.002411	0.152608	0.000734	0.014895	0.008427	0.002358	0.023579
3-Mar-2025	0.097520	15.428200	24.178200	3.796990	54.160220	2.227680	0.033204	0.340649	0.056248	0.004248	0.002422	0.153330	0.000737	0.014965	0.008466	0.002369	0.023691
4-Mar-2025	0.097518	15.508000	24.303400	3.816550	54.440029	2.239220	0.033375	0.342406	0.056537	0.004270	0.002435	0.154115	0.000741	0.015042	0.008510	0.002381	0.023813
5-Mar-2025	0.097518	15.600600	24.448500	3.839340	54.765100	2.252590	0.033574	0.344451	0.056875	0.004296	0.002449	0.155036	0.000745	0.015132	0.008561	0.002396	0.023955
6-Mar-2025	0.097518	15.702700	24.608500	3.864460	55.123488	2.267330	0.033794	0.346705	0.057247	0.004324	0.002465	0.156050	0.000750	0.015231	0.008617	0.002411	0.024112
7-Mar-2025	0.097518	15.805400	24.769400	3.889740	55.484033	2.282160	0.034015	0.348972	0.057621	0.004352	0.002482	0.157071	0.000755	0.015331	0.008673	0.002427	0.024270
8-Mar-2025	0.097517	15.903300	24.922900	3.913830	55.827692	2.296300	0.034226	0.351134	0.057978	0.004379	0.002497	0.158044	0.000760	0.015426	0.008727	0.002442	0.024420
9-Mar-2025	0.097517	15.997200	25.070100	3.936950	56.157369	2.309870	0.034428	0.353208	0.058321	0.004405	0.002512	0.158977	0.000764	0.015517	0.008779	0.002456	0.024565
10-Mar-2025	0.097516	16.090900	25.216900	3.960010	56.486298	2.323390	0.034630	0.355277	0.058662	0.004431	0.002526	0.159908	0.000769	0.015608	0.008830	0.002471	0.024708
11-Mar-2025	0.097516	16.174200	25.347400	3.980500	56.778676	2.335420	0.034809	0.357115	0.058966	0.004453	0.002539	0.160736	0.000773	0.015688	0.008876	0.002484	0.024836
12-Mar-2025	0.097516	16.270000	25.497600	4.004090	57.115033	2.349260	0.035015	0.359231	0.059315	0.004480	0.002554	0.161688	0.000777	0.015781	0.008928	0.002498	0.024983
13-Mar-2025	0.097517	16.370200	25.654600	4.028740	57.466741	2.363720	0.035231	0.361443	0.059681	0.004507	0.002570	0.162684	0.000782	0.015879	0.008983	0.002514	0.025137
14-Mar-2025	0.097518	16.474000	25.817300	4.054290	57.831144	2.378710	0.035454	0.363735	0.060059	0.004536	0.002587	0.163715	0.000787	0.015979	0.009040	0.002530	0.025297
15-Mar-2025	0.097518	16.595000	26.006800	4.084060	58.255874	2.396170	0.035714	0.366406	0.060500	0.004569	0.002606	0.164918	0.000793	0.016097	0.009107	0.002548	0.025482
16-Mar-2025	0.097519	16.741800	26.237000	4.120200	58.771258	2.417370	0.036030	0.369648	0.061035	0.004610	0.002629	0.166377	0.000800	0.016239	0.009187	0.002571	0.025708
17-Mar-2025	0.097519	16.900600	26.485900	4.159290	59.328754	2.440310	0.036372	0.373155	0.061614	0.004653	0.002654	0.167956	0.000808	0.016393	0.009275	0.002595	0.025952
18-Mar-2025	0.097519	17.055100	26.728000	4.197300	59.871066	2.462610	0.036705	0.376566	0.062178	0.004696	0.002678	0.169491	0.000815	0.016543	0.009359	0.002619	0.026189
19-Mar-2025	0.097519	17.218400	26.983900	4.237500	60.444370	2.486200	0.037056	0.380172	0.062773	0.004741	0.002703	0.171114	0.000823	0.016701	0.009449	0.002644	0.026440
20-Mar-2025	0.097519	17.389100	27.251400	4.279500	61.043564	2.510840	0.037424	0.383940	0.063395	0.004788	0.002730	0.172810	0.000831	0.016867	0.009543	0.002670	0.026702
21-Mar-2025	0.097519	17.559000	27.517600	4.321310	61.639978	2.535370	0.037789	0.387692	0.064015	0.004835	0.002757	0.174498	0.000839	0.017032	0.009636	0.002696	0.026963
22-Mar-2025	0.097519	17.729100	27.784200	4.363170	62.237097	2.559930	0.038155	0.391447	0.064635	0.004882	0.002784	0.176189	0.000847	0.017197	0.009729	0.002722	0.027224
23-Mar-2025	0.097520	17.900200	28.052300	4.405270	62.837701	2.584630	0.038523	0.395224	0.065258	0.004929	0.002810	0.177889	0.000855	0.017363	0.009823	0.002749	0.027487
24-Mar-2025	0.097519	18.073200	28.323500	4.447860	63.445068	2.609620	0.038896	0.399045	0.065889	0.004976	0.002838	0.179609	0.000864	0.017530	0.009918	0.002775	0.027752
25-Mar-2025	0.097520	18.249200	28.599300	4.491170	64.062890	2.635030	0.039275	0.402931	0.066531	0.005025	0.002865	0.181358	0.000872	0.017701	0.010015	0.002802	0.028023
26-Mar-2025	0.097520	18.429000	28.881100	4.535430	64.694114	2.660990	0.039662	0.406901	0.067186	0.005074	0.002893	0.183145	0.000881	0.017876	0.010113	0.002830	0.028299
27-Mar-2025	0.097520	18.611900	29.167600	4.580430	65.336125	2.687400	0.040055	0.410938	0.067853	0.005125	0.002922	0.184962	0.000889	0.018053	0.010214	0.002858	0.028579
28-Mar-2025	0.097520	18.798300	29.459800	4.626320	65.990541	2.714320	0.040456	0.415055	0.068533	0.005176	0.002951	0.186815	0.000898	0.018234	0.010316	0.002887	0.028866
29-Mar-2025	0.097520	19.004000	29.782000	4.676990	66.712833	2.743990	0.040899	0.419599	0.069284	0.005233	0.002984	0.188865	0.000908	0.018433	0.010429	0.002918	0.029182
30-Mar-2025	0.097520	19.228000	30.133000	4.732110	67.499145	2.776330	0.041381	0.424545	0.070101	0.005294	0.003019	0.191091	0.000919	0.018651	0.010552	0.002953	0.029525
31-Mar-2025	0.097519	19.459700	30.496100	4.789130	68.312508	2.809790	0.041880	0.429661	0.070945	0.005358	0.003055	0.193394	0.000930	0.018875	0.010679	0.002988	0.029881
1-Apr-2025	0.097519	19.697200	30.868300	4.847590	69.146284	2.844080	0.042391	0.434905	0.071811	0.005424	0.003093	0.195754	0.000941	0.019106	0.010809	0.003025	0.030246
2-Apr-2025	0.097519	19.889000	31.168900	4.894790	69.819578	2.871770	0.042804	0.439140	0.072510	0.005476	0.003123	0.197660	0.000950	0.019292	0.010914	0.003054	0.030540
3-Apr-2025	0.097519	20.014000	31.364800	4.925560	70.258414	2.889830	0.043073	0.441900	0.072966	0.005511	0.003142	0.198903	0.000956	0.019413	0.010983	0.003073	0.030732
4-Apr-2025	0.097519	20.104700	31.506900	4.947870	70.576765	2.902920	0.043268	0.443902	0.073297	0.005536	0.003157	0.199804	0.000961	0.019501	0.011033	0.003087	0.030872
5-Apr-2025	0.097519	20.174100	31.615700	4.964960	70.820433	2.912950	0.043418	0.445435	0.073550	0.005555	0.003168	0.200494	0.000964	0.019568	0.011071	0.003098	0.030978
6-Apr-2025	0.097519	20.228800	31.701400	4.978420	71.012447	2.920840	0.043535	0.446643	0.073749	0.005570	0.003176	0.201037	0.000967	0.019621	0.011101	0.003106	0.031062

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Apr-2025	0.097519	20.272900	31.770500	4.989270	71.167245	2.927210	0.043630	0.447616	0.073910	0.005582	0.003183	0.201475	0.000969	0.019664	0.011125	0.003113	0.031130
8-Apr-2025	0.097519	20.309100	31.827300	4.998190	71.294369	2.932440	0.043708	0.448417	0.074042	0.005592	0.003189	0.201836	0.000970	0.019699	0.011145	0.003119	0.031186
9-Apr-2025	0.097520	20.336200	31.869800	5.004860	71.389505	2.936350	0.043766	0.449015	0.074141	0.005599	0.003193	0.202105	0.000972	0.019726	0.011160	0.003123	0.031227
10-Apr-2025	0.097520	20.359500	31.906300	5.010590	71.471281	2.939710	0.043817	0.449529	0.074226	0.005606	0.003197	0.202336	0.000973	0.019748	0.011173	0.003126	0.031263
11-Apr-2025	0.097520	20.379600	31.937700	5.015520	71.541773	2.942610	0.043860	0.449972	0.074299	0.005611	0.003200	0.202536	0.000974	0.019768	0.011184	0.003129	0.031294
12-Apr-2025	0.097520	20.396700	31.964600	5.019750	71.601890	2.945090	0.043897	0.450351	0.074362	0.005616	0.003203	0.202706	0.000975	0.019784	0.011193	0.003132	0.031320
13-Apr-2025	0.097520	20.411600	31.987900	5.023410	71.654168	2.947240	0.043929	0.450679	0.074416	0.005620	0.003205	0.202854	0.000975	0.019799	0.011201	0.003134	0.031343
14-Apr-2025	0.097520	20.424900	32.008800	5.026690	71.700885	2.949160	0.043957	0.450973	0.074464	0.005624	0.003207	0.202987	0.000976	0.019812	0.011209	0.003136	0.031363
15-Apr-2025	0.097520	20.436900	32.027500	5.029630	71.742956	2.950890	0.043983	0.451237	0.074508	0.005627	0.003209	0.203105	0.000977	0.019823	0.011215	0.003138	0.031382
16-Apr-2025	0.097520	20.447600	32.044400	5.032280	71.780586	2.952440	0.044006	0.451474	0.074547	0.005630	0.003211	0.203212	0.000977	0.019834	0.011221	0.003140	0.031398
17-Apr-2025	0.097520	20.457400	32.059700	5.034680	71.814940	2.953850	0.044027	0.451690	0.074583	0.005633	0.003212	0.203309	0.000978	0.019843	0.011226	0.003141	0.031413
18-Apr-2025	0.097520	20.466300	32.073600	5.036870	71.846182	2.955130	0.044046	0.451887	0.074615	0.005635	0.003213	0.203397	0.000978	0.019852	0.011231	0.003143	0.031427
19-Apr-2025	0.097520	20.474500	32.086400	5.038880	71.874934	2.956320	0.044064	0.452067	0.074645	0.005638	0.003215	0.203479	0.000978	0.019860	0.011236	0.003144	0.031440
20-Apr-2025	0.097520	20.482000	32.098300	5.040740	71.901321	2.957410	0.044080	0.452234	0.074673	0.005640	0.003216	0.203554	0.000979	0.019867	0.011240	0.003145	0.031451
21-Apr-2025	0.097520	20.488900	32.109100	5.042440	71.925551	2.958400	0.044095	0.452386	0.074698	0.005642	0.003217	0.203622	0.000979	0.019874	0.011244	0.003146	0.031462
22-Apr-2025	0.097520	20.495100	32.118800	5.043960	71.947292	2.959290	0.044108	0.452523	0.074720	0.005643	0.003218	0.203684	0.000979	0.019880	0.011247	0.003147	0.031471
23-Apr-2025	0.097520	20.500700	32.127600	5.045340	71.966958	2.960100	0.044120	0.452646	0.074741	0.005645	0.003219	0.203740	0.000980	0.019885	0.011250	0.003148	0.031480
24-Apr-2025	0.097520	20.505800	32.135600	5.046600	71.984881	2.960840	0.044131	0.452760	0.074759	0.005646	0.003220	0.203791	0.000980	0.019890	0.011253	0.003149	0.031488
25-Apr-2025	0.097520	20.510600	32.143000	5.047770	72.001685	2.961530	0.044142	0.452864	0.074777	0.005647	0.003220	0.203838	0.000980	0.019895	0.011256	0.003149	0.031495
26-Apr-2025	0.097520	20.514900	32.149800	5.048840	72.016828	2.962160	0.044151	0.452960	0.074792	0.005649	0.003221	0.203881	0.000980	0.019899	0.011258	0.003150	0.031502
27-Apr-2025	0.097520	20.518900	32.156100	5.049820	72.030852	2.962730	0.044160	0.453049	0.074807	0.005650	0.003222	0.203921	0.000980	0.019903	0.011260	0.003151	0.031508
28-Apr-2025	0.097520	20.522600	32.161900	5.050730	72.043838	2.963270	0.044168	0.453130	0.074820	0.005651	0.003222	0.203957	0.000981	0.019906	0.011262	0.003151	0.031513
29-Apr-2025	0.097519	20.526000	32.167200	5.051570	72.055787	2.963760	0.044175	0.453205	0.074833	0.005652	0.003223	0.203991	0.000981	0.019910	0.011264	0.003152	0.031519
30-Apr-2025	0.097540	20.529000	32.171900	5.052300	72.066284	2.964190	0.044181	0.453271	0.074844	0.005653	0.003223	0.204021	0.000981	0.019913	0.011266	0.003152	0.031523
1-May-2025	0.098304	20.520200	32.158000	5.050130	72.035375	2.962910	0.044162	0.453076	0.074812	0.005650	0.003222	0.203933	0.000981	0.019904	0.011261	0.003151	0.031510
2-May-2025	0.102965	20.360000	31.907100	5.010710	71.473024	2.939790	0.043818	0.449540	0.074228	0.005606	0.003197	0.202341	0.000973	0.019749	0.011173	0.003126	0.031264
3-May-2025	0.109573	20.046500	31.415800	4.933560	70.372511	2.894520	0.043143	0.442618	0.073085	0.005520	0.003148	0.199226	0.000958	0.019445	0.011001	0.003078	0.030782
4-May-2025	0.113857	19.649500	30.793600	4.835850	68.978832	2.837200	0.042288	0.433852	0.071637	0.005410	0.003085	0.195280	0.000939	0.019060	0.010783	0.003017	0.030173
5-May-2025	0.119658	19.199400	30.088200	4.725070	67.398740	2.772210	0.041320	0.423914	0.069996	0.005286	0.003015	0.190806	0.000917	0.018623	0.010536	0.002948	0.029482
6-May-2025	0.124997	18.756800	29.394600	4.616140	65.844994	2.708300	0.040367	0.414141	0.068383	0.005165	0.002945	0.186407	0.000896	0.018194	0.010293	0.002880	0.028802
7-May-2025	0.129080	18.398700	28.833500	4.528030	64.587981	2.656600	0.039597	0.406236	0.067077	0.005066	0.002889	0.182849	0.000879	0.017846	0.010097	0.002825	0.028252
8-May-2025	0.132921	18.093100	28.354600	4.452820	63.515183	2.612480	0.038939	0.399488	0.065963	0.004982	0.002841	0.179812	0.000865	0.017550	0.009929	0.002778	0.027783
9-May-2025	0.136434	17.784800	27.871400	4.376930	62.432843	2.567960	0.038275	0.392680	0.064839	0.004897	0.002792	0.176748	0.000850	0.017251	0.009760	0.002731	0.027309
10-May-2025	0.145556	17.642800	27.648900	4.341990	61.934386	2.547460	0.037970	0.389545	0.064321	0.004858	0.002770	0.175337	0.000843	0.017113	0.009682	0.002709	0.027091
11-May-2025	0.147879	17.386200	27.246700	4.278830	61.033563	2.510400	0.037418	0.383879	0.063386	0.004787	0.002730	0.172786	0.000831	0.016864	0.009541	0.002670	0.026697
12-May-2025	0.159220	17.101600	26.800700	4.208790	60.034492	2.469310	0.036805	0.377596	0.062348	0.004709	0.002685	0.169957	0.000817	0.016588	0.009385	0.002626	0.026260
13-May-2025	0.163690	16.879400	26.452500	4.154110	59.254487	2.437230	0.036327	0.372690	0.061538	0.004648	0.002650	0.167749	0.000807	0.016373	0.009263	0.002592	0.025919
14-May-2025	0.171378	16.220500	25.419900	3.991940	56.941397	2.342090	0.034909	0.358140	0.059136	0.004466	0.002547	0.161200	0.000775	0.015733	0.008901	0.002491	0.024907
15-May-2025	0.177118	15.423700	24.171300	3.795810	54.144124	2.227050	0.033194	0.340545	0.056230	0.004247	0.002422	0.153277	0.000737	0.014960	0.008464	0.002368	0.023684
16-May-2025	0.193278	15.314000	23.999500	3.768800	53.758976	2.211220	0.032958	0.338122	0.055830	0.004217	0.002404	0.152185	0.000732	0.014854	0.008404	0.002352	0.023515
17-May-2025	0.196123	15.192400	23.808800	3.738870	53.332089	2.193660	0.032696	0.335436	0.055387	0.004183	0.002385	0.150977	0.000726	0.014736	0.008337	0.002333	0.023329
18-May-2025	0.198123	15.077000	23.627900	3.710460	52.926943	2.176990	0.032447	0.332887	0.054966	0.004151	0.002367	0.149830	0.000720	0.014624	0.008274	0.002315	0.023151
19-May-2025	0.207652	14.902600	23.354700	3.667560	52.314804	2.151810	0.032072	0.329037	0.054330	0.004103	0.002340	0.148097	0.000712	0.014455	0.008178	0.002288	0.022884
20-May-2025	0.207523	14.583000	22.853700	3.588930	51.192965	2.105630	0.031384	0.321977	0.053167	0.004015	0.002290	0.144924	0.000697	0.014145	0.008003	0.002239	0.022393
21-May-2025	0.223568	14.241200	22.317900	3.504850	49.993249	2.056250	0.030648	0.314427	0.051923	0.003921	0.002236	0.141529	0.000681	0.013814	0.007815	0.002187	0.021868
22-May-2025	0.244592	13.987700	21.920700	3.442450	49.103296	2.019660	0.030103	0.308831	0.050998	0.003851	0.002196	0.139009	0.000668	0.013568	0.007676	0.002148	0.021479
23-May-2025	0.266300	13.680700	21.439400	3.366950	48.025808	1.975280	0.029441	0.302047	0.049881	0.003767	0.002148	0.135963	0.000654	0.013270	0.007507	0.002101	0.021007
24-May-2025	0.285034	13.916600	21.808400	3.425220	48.854806	2.009200	0.029947	0.307239	0.050751	0.003832	0.002186	0.138323	0.000665	0.013500	0.007637	0.002137	0.021369
25-May-2025	0.300691	13.026200	20.413600	3.205940	45.728482	1.880750	0.028033	0.287593	0.047498	0.003587	0.002046	0.129463	0.000622	0.012636	0.007148	0.002000	0.020002
26-May-2025	0.318665	12.671400	19.857400	3.118650	44.483087	1.829500	0.027269	0.279757	0.046205	0.003489	0.001990	0.125939	0.000605	0.012292	0.006954	0.001946	0.019457
27-May-2025	0.340753	12.463700	19.531800	3.067590	43.754195	1.799470	0.026821	0.275166	0.045451	0.003432	0.001957	0.123879	0.000596	0.012090	0.006840	0.001914	0.019138
28-May-2025	0.370449	12.355900	19.362700	3.041100	43.375932	1.783870	0.026589	0.272783	0.045059	0.003402	0.001940	0.122811	0.000590	0.011986	0.006780	0.001897	0.018972

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
29-May-2025	0.396540	12.263600	19.218000	3.018400	43.051980	1.770540	0.026391	0.270748	0.044722	0.003376	0.001926	0.121897	0.000586	0.011897	0.006730	0.001883	0.018831
30-May-2025	0.412588	12.148100	19.036600	2.990070	42.646914	1.753820	0.026142	0.268202	0.044303	0.003345	0.001908	0.120761	0.000580	0.011785	0.006666	0.001865	0.018653
31-May-2025	0.432031	12.055600	18.891300	2.967400	42.322586	1.740420	0.025943	0.266162	0.043967	0.003319	0.001894	0.119853	0.000576	0.011695	0.006615	0.001851	0.018511
1-Jun-2025	0.561619	11.957200	18.736800	2.943260	41.977473	1.726160	0.025731	0.263984	0.043612	0.003292	0.001878	0.118882	0.000571	0.011600	0.006561	0.001836	0.018360
2-Jun-2025	0.660968	11.763800	18.428100	2.897290	41.305249	1.697190	0.025314	0.259715	0.042996	0.003237	0.001851	0.117081	0.000562	0.011420	0.006454	0.001807	0.018065
3-Jun-2025	0.912582	11.598100	18.160800	2.858680	40.732500	1.671980	0.024957	0.256072	0.044351	0.003190	0.001829	0.115604	0.000553	0.011269	0.006362	0.001781	0.017814
4-Jun-2025	1.270529	11.424400	17.858700	2.824590	40.158388	1.642430	0.024583	0.252331	0.043203	0.003134	0.001834	0.114842	0.000544	0.011139	0.006263	0.001756	0.017562
5-Jun-2025	1.184634	11.192400	17.468200	2.775300	39.376108	1.604450	0.024081	0.247258	0.042283	0.003063	0.001807	0.112945	0.000531	0.010948	0.006132	0.001722	0.017219
6-Jun-2025	1.139373	11.027900	17.192200	2.740110	38.820439	1.577310	0.023725	0.243659	0.041913	0.003012	0.001790	0.111687	0.000522	0.010812	0.006039	0.001698	0.016976
7-Jun-2025	1.103521	10.786400	16.790600	2.687330	38.000066	1.538170	0.023200	0.238327	0.041548	0.002939	0.001770	0.110134	0.000510	0.010613	0.005903	0.001662	0.016616
8-Jun-2025	1.189936	10.572400	16.432800	2.642500	37.281098	1.503120	0.022731	0.233562	0.041199	0.002874	0.001748	0.108502	0.000498	0.010440	0.005782	0.001630	0.016297
9-Jun-2025	1.399193	10.390200	16.122300	2.603520	36.665625	1.472140	0.022325	0.229429	0.041171	0.002816	0.001732	0.107156	0.000488	0.010286	0.005679	0.001603	0.016027
10-Jun-2025	1.685512	10.240400	15.866500	2.573150	36.166511	1.446530	0.021989	0.225977	0.040968	0.002769	0.001719	0.106060	0.000480	0.010171	0.005593	0.001580	0.015804
11-Jun-2025	1.874993	10.120400	15.661600	2.547960	35.763138	1.426110	0.021722	0.223211	0.040628	0.002731	0.001717	0.105256	0.000473	0.010070	0.005525	0.001563	0.015626
12-Jun-2025	2.063514	9.948120	15.362000	2.514090	35.193478	1.395940	0.021347	0.219432	0.040393	0.002675	0.001702	0.103962	0.000464	0.009940	0.005426	0.001538	0.015376
13-Jun-2025	2.238892	9.772620	15.052300	2.480680	34.617672	1.364520	0.020965	0.215375	0.040041	0.002617	0.001687	0.102876	0.000453	0.009814	0.005325	0.001512	0.015122
14-Jun-2025	2.364675	9.607570	14.768500	2.447060	34.067095	1.336090	0.020599	0.211458	0.039745	0.002565	0.001674	0.101795	0.000444	0.009686	0.005231	0.001488	0.014878
15-Jun-2025	2.470543	9.437980	14.480100	2.411810	33.498470	1.307290	0.020221	0.207669	0.039334	0.002512	0.001658	0.100589	0.000435	0.009550	0.005134	0.001463	0.014625
16-Jun-2025	2.480437	9.271300	14.193700	2.377720	32.941887	1.278680	0.019854	0.203700	0.039034	0.002460	0.001643	0.099664	0.000426	0.009421	0.005039	0.001438	0.014379
17-Jun-2025	2.420985	9.135740	13.961200	2.349710	32.488049	1.255550	0.019555	0.200437	0.038881	0.002418	0.001634	0.098663	0.000418	0.009314	0.004962	0.001418	0.014176
18-Jun-2025	2.379942	8.994160	13.717200	2.320910	32.015925	1.231180	0.019246	0.197160	0.038674	0.002374	0.001623	0.097862	0.000410	0.009205	0.004881	0.001397	0.013966
19-Jun-2025	2.326538	8.853100	13.476700	2.291210	31.541393	1.207350	0.018933	0.193741	0.038468	0.002331	0.001613	0.096990	0.000402	0.009092	0.004801	0.001375	0.013753
20-Jun-2025	2.308733	8.706030	13.225100	2.263580	31.060379	1.182300	0.018618	0.190420	0.038291	0.002286	0.001603	0.096128	0.000394	0.008990	0.004718	0.001353	0.013531
21-Jun-2025	2.303413	8.570480	12.988900	2.240190	30.625591	1.158620	0.018346	0.187717	0.038150	0.002246	0.001594	0.095426	0.000387	0.008902	0.004640	0.001335	0.013353
22-Jun-2025	2.326361	8.411980	12.713800	2.206540	30.091246	1.130970	0.017993	0.183847	0.037949	0.002194	0.001583	0.094439	0.000378	0.008775	0.004549	0.001310	0.013102
23-Jun-2025	2.417805	8.274550	12.467200	2.178610	29.633067	1.106960	0.017712	0.180617	0.037784	0.002154	0.001573	0.093627	0.000370	0.008671	0.004471	0.001290	0.012897
24-Jun-2025	2.609119	8.158670	12.275100	2.152890	29.237800	1.087230	0.017438	0.177709	0.037599	0.002117	0.001564	0.092849	0.000363	0.008574	0.004405	0.001271	0.012714
25-Jun-2025	2.835796	8.050790	12.076100	2.131010	28.878322	1.067930	0.017235	0.175207	0.037468	0.002086	0.001556	0.092312	0.000357	0.008497	0.004343	0.001256	0.012561
26-Jun-2025	3.153781	7.893510	11.806400	2.099710	28.356700	1.040510	0.016900	0.171743	0.037296	0.002038	0.001547	0.091455	0.000348	0.008381	0.004253	0.001233	0.012327
27-Jun-2025	3.524679	7.780560	11.610300	2.080790	27.996752	1.020630	0.016620	0.169579	0.037173	0.002000	0.001539	0.090800	0.000342	0.008304	0.004189	0.001217	0.012170
28-Jun-2025	3.898085	7.627170	11.330800	2.048200	27.479531	0.993347	0.016340	0.165934	0.037017	0.001955	0.001527	0.090138	0.000332	0.008191	0.004100	0.001194	0.011936
29-Jun-2025	4.316580	7.422860	10.970000	2.011270	26.817291	0.957522	0.015918	0.161710	0.036820	0.001895	0.001518	0.089191	0.000321	0.008045	0.003984	0.001164	0.011644
30-Jun-2025	4.625432	7.313010	10.777900	1.985960	26.438769	0.938471	0.015685	0.159113	0.036631	0.001863	0.001508	0.088658	0.000314	0.007965	0.003921	0.001147	0.011467
1-Jul-2025	4.948204	6.625870	9.606150	1.837480	24.111540	0.822083	0.014096	0.143665	0.034852	0.001672	0.001439	0.084591	0.000277	0.007433	0.003538	0.001041	0.010409
2-Jul-2025	5.945139	6.631980	9.664800	1.814830	24.033524	0.828778	0.013927	0.141956	0.034434	0.001683	0.001410	0.083363	0.000280	0.007419	0.003559	0.001041	0.010410
3-Jul-2025	6.591494	6.598940	9.619210	1.801250	23.895101	0.825275	0.013829	0.141093	0.034247	0.001684	0.001399	0.083149	0.000279	0.007391	0.003546	0.001036	0.010361
4-Jul-2025	7.109045	6.226550	8.935840	1.736550	22.698808	0.760339	0.013227	0.135430	0.033666	0.001601	0.001383	0.083107	0.000256	0.007139	0.003329	0.000978	0.009785
5-Jul-2025	7.344372	6.274850	9.022850	1.743520	22.848116	0.769617	0.013331	0.136556	0.033701	0.001621	0.001383	0.083454	0.000259	0.007177	0.003359	0.000985	0.009855
6-Jul-2025	7.497895	6.305720	9.078500	1.748030	22.943770	0.775808	0.013405	0.137391	0.033689	0.001636	0.001383	0.083727	0.000261	0.007200	0.003378	0.000990	0.009898
7-Jul-2025	7.913736	6.326430	9.119020	1.751480	23.009690	0.779871	0.013438	0.137734	0.033631	0.001643	0.001382	0.083738	0.000263	0.007208	0.003390	0.000993	0.009927
8-Jul-2025	9.466084	6.417360	9.285480	1.765400	23.294065	0.796543	0.013601	0.139363	0.033737	0.001671	0.001384	0.083990	0.000268	0.007274	0.003445	0.001006	0.010064
9-Jul-2025	10.132368	6.514720	9.466500	1.781760	23.604544	0.814271	0.013762	0.140961	0.033764	0.001699	0.001386	0.084159	0.000274	0.007334	0.003502	0.001021	0.010210
10-Jul-2025	10.033493	6.466140	9.379140	1.775890	23.459067	0.805162	0.013661	0.139887	0.033591	0.001685	0.001385	0.084005	0.000271	0.007287	0.003471	0.001013	0.010133
11-Jul-2025	10.460741	6.589450	9.607060	1.794730	23.844555	0.827677	0.013870	0.142010	0.033729	0.001719	0.001387	0.084184	0.000279	0.007374	0.003545	0.001032	0.010321
12-Jul-2025	11.109700	6.737750	9.877720	1.817700	24.309450	0.854676	0.014135	0.144656	0.033924	0.001764	0.001390	0.084599	0.000288	0.007484	0.003635	0.001054	0.010545
13-Jul-2025	12.504335	6.625320	9.673070	1.802450	23.965913	0.833927	0.013927	0.142588	0.033682	0.001730	0.001388	0.084312	0.000281	0.007390	0.003564	0.001037	0.010373
14-Jul-2025	12.589551	6.847940	10.080100	1.837090	24.664443	0.874466	0.014322	0.146530	0.033958	0.001797	0.001393	0.084910	0.000295	0.007552	0.003699	0.001071	0.010710
15-Jul-2025	13.838729	6.861370	10.104000	1.839520	24.707984	0.876893	0.014348	0.146788	0.033961	0.001802	0.001394	0.085005	0.000296	0.007562	0.003706	0.001073	0.010729
16-Jul-2025	14.346682	7.091430	10.526200	1.877200	25.437610	0.918722	0.014754	0.150864	0.034184	0.001871	0.001399	0.085606	0.000310	0.007719	0.003843	0.001108	0.011077
17-Jul-2025	14.807971	7.128290	10.592100	1.883410	25.555223	0.925363	0.014824	0.151568	0.034216	0.001884	0.001400	0.085803	0.000312	0.007746	0.003865	0.001113	0.011131
18-Jul-2025	15.456380	7.275010	10.861700	1.907350	26.020167	0.952051	0.015081	0.154152	0.034355	0.001927	0.001403	0.086169	0.000321	0.007847	0.003952	0.001135	0.011354
19-Jul-2025	16.293116	7.050830	10.449900	1.873930	25.322766	0.910813	0.014679	0.150128	0.034023	0.001861	0.001400	0.085672	0.000307	0.007680	0.003815	0.001101	0.011012

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
20-Jul-2025	17.161157	7.280910	10.871200	1.911750	26.053019	0.952699	0.015089	0.154235	0.034247	0.001932	0.001405	0.086417	0.000321	0.007838	0.003952	0.001136	0.011358
21-Jul-2025	16.408229	7.130980	10.595500	1.888580	25.583230	0.925134	0.014820	0.151532	0.034035	0.001887	0.001402	0.085998	0.000312	0.007730	0.003862	0.001113	0.011130
22-Jul-2025	16.664912	7.252970	10.817600	1.907730	25.966698	0.947353	0.015042	0.153756	0.034199	0.001924	0.001405	0.086384	0.000319	0.007820	0.003935	0.001131	0.011314
23-Jul-2025	16.935920	7.513040	11.293400	1.947640	26.780442	0.994824	0.015505	0.158385	0.034544	0.002002	0.001410	0.087059	0.000335	0.008012	0.004093	0.001171	0.011707
24-Jul-2025	17.397347	7.552570	11.366400	1.954590	26.907769	1.001850	0.015567	0.158999	0.034544	0.002014	0.001411	0.087135	0.000338	0.008036	0.004115	0.001177	0.011766
25-Jul-2025	17.682702	7.597690	11.449800	1.962670	27.053707	1.009940	0.015640	0.159727	0.034542	0.002027	0.001412	0.087237	0.000341	0.008062	0.004141	0.001183	0.011833
26-Jul-2025	17.708092	7.483700	11.243400	1.947120	26.705039	0.988887	0.015424	0.157574	0.034296	0.001991	0.001410	0.086871	0.000334	0.007966	0.004070	0.001166	0.011660
27-Jul-2025	17.829237	7.542800	11.351600	1.957310	26.894574	0.999569	0.015528	0.158619	0.034336	0.002009	0.001412	0.087063	0.000337	0.008005	0.004104	0.001175	0.011749
28-Jul-2025	18.211810	7.568030	11.397300	1.962890	26.980552	1.003980	0.015573	0.159071	0.034302	0.002018	0.001413	0.087200	0.000339	0.008017	0.004118	0.001179	0.011785
29-Jul-2025	18.243657	7.888390	11.980500	2.010430	27.976261	1.062630	0.016158	0.164906	0.034818	0.002116	0.001420	0.088141	0.000358	0.008265	0.004314	0.001227	0.012270
30-Jul-2025	19.049398	7.418990	11.122700	1.941290	26.519450	0.976269	0.015298	0.156251	0.034046	0.001974	0.001411	0.086894	0.000330	0.007904	0.004027	0.001156	0.011555
31-Jul-2025	18.624673	7.452830	11.183800	1.947240	26.628451	0.982287	0.015357	0.156840	0.034055	0.001986	0.001412	0.087048	0.000332	0.007926	0.004046	0.001160	0.011604
1-Aug-2025	18.608310	7.532260	11.331300	1.961130	26.883987	0.996513	0.015482	0.158106	0.034085	0.002008	0.001414	0.087173	0.000337	0.007974	0.004092	0.001173	0.011726
2-Aug-2025	16.864435	7.485030	11.244300	1.954980	26.740728	0.987268	0.015374	0.156976	0.033953	0.001994	0.001413	0.087099	0.000334	0.007935	0.004062	0.001165	0.011651
3-Aug-2025	15.258496	7.491890	11.256900	1.957660	26.768893	0.987955	0.015365	0.156860	0.033888	0.001997	0.001414	0.087152	0.000334	0.007932	0.004065	0.001166	0.011659
4-Aug-2025	15.003386	7.542920	11.350400	1.966930	26.934489	0.996771	0.015437	0.157560	0.033901	0.002012	0.001416	0.087310	0.000337	0.007964	0.004094	0.001174	0.011735
5-Aug-2025	14.911073	7.618960	11.490200	1.980480	27.180160	1.010020	0.015546	0.158619	0.033928	0.002035	0.001418	0.087544	0.000342	0.008011	0.004138	0.001185	0.011849
6-Aug-2025	15.001627	7.976840	12.142800	2.035410	28.299988	1.075330	0.016192	0.165066	0.034423	0.002144	0.001425	0.088579	0.000364	0.008278	0.004355	0.001239	0.012390
7-Aug-2025	15.006380	8.006210	12.197600	2.041030	28.396468	1.080260	0.016224	0.165361	0.034405	0.002152	0.001426	0.088603	0.000366	0.008293	0.004371	0.001243	0.012434
8-Aug-2025	15.262802	8.136210	12.434800	2.061600	28.805785	1.103730	0.016447	0.167580	0.034554	0.002191	0.001429	0.088982	0.000373	0.008387	0.004450	0.001263	0.012630
9-Aug-2025	15.538204	8.174120	12.506400	2.069020	28.931002	1.110090	0.016483	0.167892	0.034519	0.002202	0.001430	0.089019	0.000376	0.008404	0.004470	0.001269	0.012687
10-Aug-2025	15.766600	8.217260	12.584200	2.076840	29.070925	1.117540	0.016550	0.168559	0.034563	0.002216	0.001432	0.089232	0.000378	0.008433	0.004495	0.001275	0.012751
11-Aug-2025	16.084900	8.353530	12.834600	2.099280	29.503599	1.141890	0.016766	0.170661	0.034655	0.002257	0.001435	0.089580	0.000387	0.008524	0.004576	0.001296	0.012956
12-Aug-2025	15.166512	8.062670	12.304100	2.057540	28.605437	1.087800	0.016205	0.165012	0.034136	0.002168	0.001429	0.088772	0.000369	0.008294	0.004397	0.001251	0.012514
13-Aug-2025	14.677937	8.030460	12.245100	2.054370	28.511954	1.081300	0.016124	0.164172	0.034007	0.002160	0.001429	0.088739	0.000367	0.008262	0.004375	0.001246	0.012462
14-Aug-2025	15.046694	8.101410	12.374200	2.066410	28.738697	1.093810	0.016237	0.165284	0.034062	0.002182	0.001431	0.088989	0.000371	0.008311	0.004417	0.001257	0.012568
15-Aug-2025	14.131580	8.064530	12.306100	2.062290	28.629642	1.086490	0.016150	0.164393	0.033942	0.002172	0.001431	0.088955	0.000369	0.008278	0.004393	0.001251	0.012509
16-Aug-2025	13.635673	8.021140	12.227300	2.057210	28.500377	1.077940	0.016046	0.163312	0.033795	0.002158	0.001431	0.088830	0.000367	0.008237	0.004365	0.001244	0.012441
17-Aug-2025	12.832588	8.079950	12.334800	2.067510	28.689641	1.088160	0.016131	0.164133	0.033813	0.002176	0.001432	0.089009	0.000370	0.008275	0.004399	0.001253	0.012528
18-Aug-2025	12.897057	8.117910	12.404800	2.074790	28.814406	1.094520	0.016174	0.164526	0.033797	0.002187	0.001434	0.089110	0.000372	0.008295	0.004420	0.001258	0.012584
19-Aug-2025	12.313580	8.145990	12.455500	2.080700	28.908860	1.099000	0.016201	0.164755	0.033764	0.002198	0.001435	0.089274	0.000374	0.008310	0.004436	0.001262	0.012624
20-Aug-2025	11.915084	8.085720	12.347100	2.072490	28.724557	1.087570	0.016069	0.163407	0.033605	0.002177	0.001434	0.089006	0.000371	0.008257	0.004398	0.001253	0.012531
21-Aug-2025	12.129239	8.221200	12.595600	2.095900	29.159253	1.111210	0.016261	0.165233	0.033654	0.002219	0.001437	0.089408	0.000379	0.008343	0.004477	0.001273	0.012731
22-Aug-2025	12.645420	8.222440	12.598500	2.099780	29.178327	1.110020	0.016200	0.164525	0.033527	0.002223	0.001437	0.089763	0.000379	0.008325	0.004474	0.001273	0.012728
23-Aug-2025	13.164406	8.559980	13.212800	2.152290	30.237400	1.171270	0.016797	0.170470	0.033940	0.002329	0.001445	0.090715	0.000400	0.008576	0.004678	0.001324	0.013236
24-Aug-2025	13.849378	8.460030	13.029200	2.136420	29.922472	1.153210	0.016638	0.168925	0.033859	0.002295	0.001443	0.090319	0.000393	0.008508	0.004618	0.001309	0.013089
25-Aug-2025	13.350394	8.429740	12.975100	2.133000	29.832755	1.147260	0.016563	0.168156	0.033759	0.002285	0.001443	0.090190	0.000392	0.008478	0.004598	0.001304	0.013044
26-Aug-2025	12.557369	8.404800	12.928300	2.130140	29.758702	1.142290	0.016507	0.167580	0.033690	0.002279	0.001443	0.090208	0.000390	0.008457	0.004582	0.001300	0.013004
27-Aug-2025	12.128900	8.534370	13.166300	2.151350	30.169581	1.165430	0.016713	0.169600	0.033805	0.002318	0.001446	0.090533	0.000398	0.008546	0.004659	0.001320	0.013200
28-Aug-2025	11.569078	8.487860	13.082200	2.145330	30.028655	1.156470	0.016607	0.168509	0.033671	0.002303	0.001445	0.090373	0.000395	0.008504	0.004629	0.001313	0.013128
29-Aug-2025	10.716108	8.514500	13.131700	2.150710	30.117330	1.160800	0.016630	0.168701	0.033640	0.002311	0.001446	0.090429	0.000397	0.008517	0.004644	0.001317	0.013167
30-Aug-2025	10.806969	8.869550	13.779700	2.204650	31.226015	1.225760	0.017274	0.175138	0.034153	0.002418	0.001453	0.091429	0.000418	0.008783	0.004860	0.001370	0.013704
31-Aug-2025	10.898547	8.540120	13.179900	2.156790	30.206341	1.164580	0.016636	0.168698	0.033580	0.002317	0.001447	0.090437	0.000398	0.008524	0.004657	0.001320	0.013204
1-Sep-2025	10.539447	8.737840	13.541400	2.187520	30.826594	1.200520	0.016982	0.172145	0.033835	0.002377	0.001451	0.090984	0.000410	0.008668	0.004776	0.001350	0.013504
2-Sep-2025	10.549676	8.917460	13.872200	2.215110	31.388721	1.233410	0.017288	0.175172	0.034009	0.002432	0.001454	0.091461	0.000422	0.008795	0.004885	0.001377	0.013773
3-Sep-2025	10.837261	9.177440	14.346000	2.254310	32.199316	1.281090	0.017767	0.179965	0.034388	0.002512	0.001459	0.092201	0.000437	0.008992	0.005043	0.001417	0.014166
4-Sep-2025	10.749963	8.881030	13.807200	2.208820	31.271853	1.227140	0.017227	0.174564	0.033900	0.002421	0.001452	0.091270	0.000419	0.008766	0.004863	0.001371	0.013714
5-Sep-2025	10.955082	8.826540	13.710000	2.199870	31.098935	1.217450	0.017121	0.173484	0.033773	0.002406	0.001450	0.091084	0.000416	0.008721	0.004830	0.001363	0.013629
6-Sep-2025	10.612680	8.767820	13.608200	2.190750	30.914755	1.207140	0.016995	0.172202	0.033577	0.002390	0.001446	0.090832	0.000413	0.008666	0.004794	0.001354	0.013538
7-Sep-2025	10.721882	8.768960	13.610700	2.190770	30.917684	1.207400	0.016996	0.172204	0.033570	0.002390	0.001446	0.090834	0.000413	0.008666	0.004795	0.001354	0.013539
8-Sep-2025	10.232516	9.222100	14.444400	2.259710	32.333069	1.290790	0.017801	0.180255	0.034129	0.002527	0.001453	0.091902	0.000441	0.008994	0.005069	0.001423	0.014226
9-Sep-2025	10.136608	9.021160	14.073900	2.229250	31.705888	1.253670	0.017439	0.176616	0.033854	0.002468	0.001450	0.091496	0.000429	0.008848	0.004948	0.001392	0.013919

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Sep-2025	10.560320	9.086870	14.195300	2.239030	31.910240	1.265840	0.017552	0.177744	0.033921	0.002489	0.001451	0.091666	0.000433	0.008895	0.004988	0.001402	0.014018
11-Sep-2025	10.042049	9.018760	14.074400	2.228410	31.696436	1.253690	0.017415	0.176352	0.033737	0.002471	0.001447	0.091452	0.000429	0.008836	0.004946	0.001391	0.013912
12-Sep-2025	9.530248	8.964130	13.976400	2.220160	31.526051	1.243800	0.017306	0.175239	0.033600	0.002456	0.001445	0.091308	0.000425	0.008791	0.004913	0.001383	0.013827
13-Sep-2025	9.665549	8.999100	14.045100	2.225480	31.635279	1.250430	0.017343	0.175537	0.033521	0.002469	0.001444	0.091343	0.000428	0.008805	0.004934	0.001387	0.013875
14-Sep-2025	9.477643	9.307000	14.605100	2.272170	32.596375	1.306700	0.017907	0.181193	0.033992	0.002564	0.001450	0.092310	0.000447	0.009040	0.005121	0.001434	0.014341
15-Sep-2025	7.931558	8.984410	14.018700	2.223030	31.588509	1.247860	0.017318	0.175309	0.033489	0.002464	0.001443	0.091289	0.000427	0.008794	0.004925	0.001385	0.013853
16-Sep-2025	7.549263	9.184120	14.384400	2.253340	32.212002	1.284530	0.017675	0.178868	0.033750	0.002529	0.001446	0.091979	0.000439	0.008943	0.005046	0.001415	0.014154
17-Sep-2025	7.376427	9.216520	14.446600	2.257840	32.311436	1.290760	0.017721	0.179308	0.033725	0.002539	0.001445	0.091940	0.000441	0.008960	0.005066	0.001420	0.014201
18-Sep-2025	7.071632	9.251460	14.513300	2.262870	32.419394	1.297430	0.017779	0.179882	0.033736	0.002548	0.001445	0.091932	0.000444	0.008981	0.005087	0.001425	0.014254
19-Sep-2025	6.618581	9.270970	14.551600	2.265630	32.479476	1.301220	0.017806	0.180145	0.033717	0.002555	0.001444	0.091927	0.000445	0.008990	0.005099	0.001428	0.014283
20-Sep-2025	6.268541	9.436780	14.854800	2.290750	32.996948	1.331620	0.018105	0.183124	0.033944	0.002605	0.001447	0.092389	0.000455	0.009114	0.005199	0.001453	0.014533
21-Sep-2025	6.184286	9.900100	15.700300	2.361090	34.443518	1.416360	0.018945	0.191514	0.034614	0.002746	0.001457	0.093701	0.000483	0.009462	0.005481	0.001523	0.015234
22-Sep-2025	5.948770	10.085400	16.042200	2.389140	35.021722	1.450550	0.019273	0.194801	0.034837	0.002801	0.001460	0.094088	0.000495	0.009595	0.005593	0.001552	0.015516
23-Sep-2025	5.969734	9.536860	15.047200	2.305360	33.307012	1.350630	0.018258	0.184631	0.033933	0.002633	0.001446	0.092334	0.000462	0.009171	0.005260	0.001468	0.014683
24-Sep-2025	5.748781	9.841240	15.606000	2.351500	34.257053	1.406600	0.018805	0.190095	0.034358	0.002725	0.001452	0.093165	0.000480	0.009397	0.005444	0.001514	0.015144
25-Sep-2025	4.931465	9.483270	14.953200	2.297000	33.138771	1.341110	0.018145	0.183464	0.033762	0.002619	0.001443	0.092122	0.000459	0.009122	0.005227	0.001460	0.014599
26-Sep-2025	4.170658	9.522890	15.026400	2.302770	33.261463	1.348560	0.018212	0.184112	0.033775	0.002634	0.001443	0.092304	0.000461	0.009150	0.005251	0.001466	0.014657
27-Sep-2025	3.878260	9.683580	15.319600	2.327230	33.763432	1.377940	0.018503	0.187022	0.034006	0.002683	0.001446	0.092761	0.000471	0.009271	0.005349	0.001490	0.014900
28-Sep-2025	3.778639	9.651040	15.264800	2.321870	33.660108	1.372370	0.018432	0.186307	0.033894	0.002672	0.001444	0.092515	0.000469	0.009238	0.005329	0.001485	0.014850
29-Sep-2025	3.277461	9.582280	15.142000	2.311250	33.444681	1.359990	0.018299	0.184953	0.033745	0.002651	0.001441	0.092248	0.000465	0.009181	0.005287	0.001474	0.014745
30-Sep-2025	3.379210	9.989070	15.885400	2.372940	34.714475	1.434510	0.019033	0.192281	0.034315	0.002775	0.001449	0.093383	0.000490	0.009485	0.005534	0.001536	0.015360
1-Oct-2025	3.366260	9.837680	15.610900	2.349730	34.240875	1.407010	0.018754	0.189480	0.034068	0.002729	0.001445	0.092918	0.000481	0.009368	0.005442	0.001513	0.015130
2-Oct-2025	3.431233	9.752150	15.455600	2.336650	33.973443	1.391460	0.018597	0.187901	0.033926	0.002704	0.001443	0.092674	0.000476	0.009302	0.005390	0.001500	0.015000
3-Oct-2025	3.011764	9.364380	14.749700	2.276760	32.758555	1.320920	0.017892	0.180847	0.033427	0.002588	0.001438	0.091612	0.000452	0.009009	0.005155	0.001441	0.014411
4-Oct-2025	2.836607	9.338230	14.700700	2.272940	32.677527	1.316060	0.017848	0.180412	0.033384	0.002581	0.001436	0.091548	0.000450	0.008992	0.005139	0.001437	0.014371
5-Oct-2025	2.805201	9.340570	14.705400	2.273040	32.683782	1.316550	0.017852	0.180445	0.033340	0.002581	0.001437	0.091535	0.000451	0.008993	0.005141	0.001437	0.014375
6-Oct-2025	2.758701	9.307160	14.644600	2.267610	32.577997	1.310630	0.017795	0.179881	0.033280	0.002573	0.001434	0.091495	0.000449	0.008969	0.005121	0.001432	0.014324
7-Oct-2025	2.547545	9.291860	14.616600	2.265110	32.529497	1.307890	0.017770	0.179626	0.033246	0.002568	0.001432	0.091442	0.000448	0.008958	0.005112	0.001430	0.014301
8-Oct-2025	2.387242	9.282600	14.600000	2.263510	32.499786	1.306280	0.017755	0.179481	0.033261	0.002565	0.001434	0.091378	0.000447	0.008951	0.005106	0.001429	0.014287
9-Oct-2025	2.148601	9.251880	14.543700	2.258620	32.402942	1.300770	0.017704	0.178973	0.033215	0.002556	0.001433	0.091325	0.000445	0.008930	0.005088	0.001424	0.014240
10-Oct-2025	1.901740	9.221020	14.487300	2.253630	32.305335	1.295270	0.017653	0.178467	0.033345	0.002547	0.001435	0.091244	0.000443	0.008908	0.005070	0.001419	0.014193
11-Oct-2025	1.937018	9.201730	14.452300	2.250440	32.244032	1.291870	0.017622	0.178165	0.033163	0.002541	0.001430	0.091174	0.000442	0.008894	0.005058	0.001416	0.014165
12-Oct-2025	1.623440	9.171950	14.397800	2.245580	32.149658	1.286570	0.017573	0.177678	0.033105	0.002533	0.001429	0.091129	0.000440	0.008873	0.005040	0.001412	0.014120
13-Oct-2025	1.042334	9.130960	14.322500	2.239130	32.020744	1.279200	0.017506	0.177014	0.033063	0.002521	0.001429	0.091036	0.000438	0.008844	0.005016	0.001406	0.014058
14-Oct-2025	0.575335	9.112260	14.289300	2.235860	31.960585	1.275990	0.017475	0.176711	0.033038	0.002515	0.001427	0.090974	0.000437	0.008830	0.005005	0.001403	0.014030
15-Oct-2025	0.126466	9.096210	14.260500	2.233030	31.908854	1.273230	0.017447	0.176436	0.033074	0.002511	0.001428	0.090911	0.000436	0.008818	0.004995	0.001401	0.014005
16-Oct-2025	0.153113	9.095430	14.258200	2.233190	31.907565	1.272960	0.017447	0.176429	0.033020	0.002511	0.001427	0.090909	0.000436	0.008818	0.004995	0.001400	0.014004
17-Oct-2025	0.175986	9.163010	14.362000	2.250460	32.147430	1.282170	0.017580	0.177784	0.033329	0.002529	0.001440	0.091656	0.000439	0.008886	0.005031	0.001411	0.014109
18-Oct-2025	0.187280	9.246830	14.493900	2.270870	32.440777	1.293920	0.017739	0.179389	0.033581	0.002552	0.001451	0.092465	0.000443	0.008967	0.005078	0.001424	0.014237
19-Oct-2025	0.199680	9.315140	14.598300	2.289150	32.686624	1.303090	0.017872	0.180732	0.033856	0.002572	0.001464	0.093333	0.000446	0.009037	0.005115	0.001434	0.014342
20-Oct-2025	0.207236	9.374720	14.690600	2.303510	32.894530	1.311260	0.017987	0.181903	0.034075	0.002588	0.001473	0.093871	0.000449	0.009094	0.005147	0.001443	0.014434
21-Oct-2025	0.213424	9.401200	14.733600	2.309520	32.985400	1.315180	0.018039	0.182425	0.034172	0.002594	0.001476	0.094057	0.000450	0.009119	0.005162	0.001448	0.014476
22-Oct-2025	0.216175	9.436950	14.789100	2.318480	33.111565	1.320100	0.018108	0.183127	0.034308	0.002604	0.001482	0.094428	0.000452	0.009154	0.005181	0.001453	0.014531
23-Oct-2025	0.217311	9.455530	14.817700	2.323230	33.177520	1.322620	0.018145	0.183496	0.034382	0.002609	0.001486	0.094629	0.000453	0.009173	0.005192	0.001456	0.014560
24-Oct-2025	0.219097	9.483630	14.861800	2.330090	33.275935	1.326570	0.018198	0.184040	0.034483	0.002617	0.001490	0.094906	0.000454	0.009200	0.005207	0.001460	0.014603
25-Oct-2025	0.220091	9.516020	14.912700	2.338000	33.389386	1.331120	0.018260	0.184667	0.034600	0.002626	0.001495	0.095225	0.000456	0.009231	0.005225	0.001465	0.014653
26-Oct-2025	0.222439	9.551320	14.968200	2.346640	33.513110	1.336080	0.018328	0.185351	0.034727	0.002635	0.001500	0.095576	0.000457	0.009265	0.005244	0.001471	0.014707
27-Oct-2025	0.225307	9.595290	15.037100	2.357440	33.667377	1.342230	0.018412	0.186204	0.034887	0.002648	0.001507	0.096015	0.000459	0.009308	0.005268	0.001477	0.014775
28-Oct-2025	0.227941	9.578580	15.011100	2.353290	33.608562	1.339910	0.018380	0.185877	0.034824	0.002643	0.001505	0.095845	0.000459	0.009291	0.005259	0.001475	0.014749
29-Oct-2025	0.229910	9.608560	15.058100	2.360630	33.713649	1.344120	0.018437	0.186456	0.034931	0.002651	0.001509	0.096145	0.000460	0.009320	0.005276	0.001480	0.014795
30-Oct-2025	0.230980	9.637620	15.103200	2.367890	33.816108	1.348130	0.018493	0.187017	0.035036	0.002660	0.001514	0.096455	0.000461	0.009349	0.005292	0.001484	0.014840
31-Oct-2025	0.232905	9.648020	15.119200	2.370550	33.853031	1.349540	0.018513	0.187217	0.035074	0.002663	0.001516	0.096576	0.000462	0.009359	0.005297	0.001486	0.014855

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Nov-2025	0.233854	9.662270	15.140600	2.374350	33.904261	1.351390	0.018540	0.187491	0.035127	0.002667	0.001518	0.096766	0.000463	0.009374	0.005305	0.001488	0.014877
2-Nov-2025	0.233893	9.700470	15.202400	2.383120	34.035762	1.357010	0.018613	0.188228	0.035258	0.002677	0.001523	0.097069	0.000464	0.009409	0.005326	0.001494	0.014936
3-Nov-2025	0.234384	9.750260	15.279800	2.395540	34.211233	1.363900	0.018709	0.189197	0.035442	0.002691	0.001532	0.097589	0.000467	0.009458	0.005353	0.001501	0.015013
4-Nov-2025	0.234958	9.787280	15.337700	2.404670	34.341269	1.369050	0.018779	0.189914	0.035577	0.002701	0.001537	0.097967	0.000469	0.009494	0.005374	0.001507	0.015070
5-Nov-2025	0.234088	9.798120	15.353200	2.407790	34.381185	1.370360	0.018800	0.190118	0.035617	0.002705	0.001540	0.098148	0.000469	0.009505	0.005379	0.001509	0.015086
6-Nov-2025	0.233612	9.834510	15.409300	2.417010	34.510019	1.375330	0.018870	0.190825	0.035751	0.002716	0.001546	0.098551	0.000471	0.009541	0.005399	0.001514	0.015141
7-Nov-2025	0.233991	9.866000	15.458100	2.424920	34.621223	1.379660	0.018930	0.191432	0.035865	0.002725	0.001551	0.098896	0.000472	0.009572	0.005417	0.001519	0.015190
8-Nov-2025	0.234787	9.895190	15.504400	2.431910	34.722895	1.383820	0.018985	0.191992	0.035966	0.002733	0.001555	0.099171	0.000474	0.009600	0.005433	0.001523	0.015234
9-Nov-2025	0.235400	9.941970	15.578300	2.443220	34.886279	1.390450	0.019075	0.192898	0.036133	0.002746	0.001562	0.099615	0.000476	0.009645	0.005458	0.001531	0.015307
10-Nov-2025	0.236060	9.978630	15.636400	2.452020	35.014057	1.395670	0.019145	0.193606	0.036263	0.002755	0.001568	0.099957	0.000478	0.009680	0.005479	0.001536	0.015363
11-Nov-2025	0.236680	10.007000	15.680700	2.459080	35.113970	1.399610	0.019199	0.194156	0.036366	0.002764	0.001572	0.100254	0.000479	0.009708	0.005494	0.001541	0.015407
12-Nov-2025	0.237304	10.032800	15.722000	2.465140	35.203348	1.403350	0.019248	0.194652	0.036455	0.002770	0.001576	0.100482	0.000480	0.009732	0.005509	0.001545	0.015447
13-Nov-2025	0.237535	10.066400	15.774800	2.473320	35.320933	1.408070	0.019312	0.195299	0.036574	0.002780	0.001581	0.100811	0.000482	0.009764	0.005527	0.001550	0.015498
14-Nov-2025	0.237689	10.093700	15.817900	2.479960	35.416444	1.411930	0.019364	0.195825	0.036670	0.002787	0.001585	0.101080	0.000483	0.009791	0.005542	0.001554	0.015540
15-Nov-2025	0.237716	10.139900	15.890300	2.491290	35.578463	1.418390	0.019453	0.196720	0.036838	0.002800	0.001592	0.101540	0.000485	0.009835	0.005567	0.001561	0.015611
16-Nov-2025	0.237754	10.189900	15.968300	2.503680	35.754335	1.425340	0.019549	0.197693	0.037021	0.002814	0.001600	0.102054	0.000488	0.009884	0.005595	0.001569	0.015688
17-Nov-2025	0.237756	10.252200	16.065800	2.518990	35.972944	1.434040	0.019669	0.198902	0.037249	0.002831	0.001610	0.102677	0.000491	0.009945	0.005629	0.001578	0.015784
18-Nov-2025	0.237796	10.312300	16.160100	2.533790	36.183960	1.442450	0.019784	0.200071	0.037468	0.002848	0.001620	0.103280	0.000494	0.010003	0.005662	0.001588	0.015877
19-Nov-2025	0.237827	10.370000	16.250400	2.547970	36.386430	1.450510	0.019895	0.201190	0.037678	0.002864	0.001629	0.103858	0.000496	0.010059	0.005694	0.001597	0.015966
20-Nov-2025	0.237797	10.439300	16.358900	2.565000	36.629602	1.460200	0.020028	0.202535	0.037931	0.002883	0.001640	0.104552	0.000500	0.010126	0.005732	0.001607	0.016072
21-Nov-2025	0.237771	10.509000	16.468200	2.582120	36.874143	1.469960	0.020162	0.203887	0.038183	0.002902	0.001651	0.105250	0.000503	0.010194	0.005770	0.001618	0.016180
22-Nov-2025	0.237730	10.556800	16.543200	2.593830	37.041722	1.476660	0.020253	0.204813	0.038356	0.002915	0.001658	0.105726	0.000505	0.010240	0.005796	0.001625	0.016253
23-Nov-2025	0.237571	10.596900	16.606100	2.603670	37.182372	1.482270	0.020330	0.205591	0.038501	0.002926	0.001664	0.106126	0.000507	0.010279	0.005818	0.001631	0.016315
24-Nov-2025	0.237633	10.646000	16.683000	2.615720	37.354597	1.489140	0.020424	0.206543	0.038680	0.002940	0.001672	0.106616	0.000510	0.010327	0.005845	0.001639	0.016391
25-Nov-2025	0.237674	10.703000	16.772400	2.629740	37.554660	1.497120	0.020534	0.207649	0.038886	0.002956	0.001681	0.107189	0.000512	0.010382	0.005877	0.001648	0.016478
26-Nov-2025	0.237684	10.742800	16.834700	2.639500	37.694233	1.502680	0.020610	0.208418	0.039030	0.002967	0.001687	0.107589	0.000514	0.010420	0.005898	0.001654	0.016539
27-Nov-2025	0.237650	10.775700	16.886300	2.647580	37.809657	1.507280	0.020673	0.209056	0.039149	0.002976	0.001692	0.107918	0.000516	0.010452	0.005916	0.001659	0.016590
28-Nov-2025	0.237568	10.807300	16.935800	2.655340	37.920518	1.511710	0.020733	0.209670	0.039264	0.002984	0.001697	0.108233	0.000517	0.010483	0.005934	0.001664	0.016639
29-Nov-2025	0.237526	10.843600	16.992800	2.664260	38.047892	1.516790	0.020803	0.210374	0.039396	0.002994	0.001703	0.108596	0.000519	0.010518	0.005954	0.001669	0.016695
30-Nov-2025	0.237342	10.892900	17.070000	2.676360	38.220822	1.523690	0.020898	0.211330	0.039575	0.003008	0.001711	0.109089	0.000522	0.010566	0.005981	0.001677	0.016771
1-Dec-2025	0.236646	10.935900	17.137400	2.686930	38.371720	1.529700	0.020980	0.212164	0.039731	0.003020	0.001718	0.109521	0.000524	0.010608	0.006004	0.001684	0.016837
2-Dec-2025	0.236799	10.973400	17.196000	2.696190	38.503490	1.534930	0.021052	0.212891	0.039867	0.003030	0.001723	0.109904	0.000525	0.010644	0.006025	0.001689	0.016894
3-Dec-2025	0.236891	11.010300	17.253600	2.705330	38.633268	1.540050	0.021123	0.213607	0.040002	0.003041	0.001729	0.110284	0.000527	0.010680	0.006045	0.001695	0.016951
4-Dec-2025	0.236692	11.051000	17.317000	2.715470	38.776652	1.545690	0.021201	0.214397	0.040151	0.003052	0.001736	0.110711	0.000529	0.010720	0.006067	0.001701	0.017014
5-Dec-2025	0.236620	11.058500	17.328600	2.717390	38.803287	1.546710	0.021215	0.214542	0.040178	0.003054	0.001737	0.110797	0.000529	0.010727	0.006072	0.001703	0.017025
6-Dec-2025	0.236650	11.088400	17.375400	2.724690	38.908008	1.550890	0.021272	0.215121	0.040286	0.003063	0.001742	0.111092	0.000531	0.010756	0.006088	0.001707	0.017071
7-Dec-2025	0.236651	11.139000	17.454800	2.737150	39.085667	1.557980	0.021370	0.216104	0.040470	0.003077	0.001750	0.111601	0.000533	0.010805	0.006116	0.001715	0.017149
8-Dec-2025	0.236352	11.153400	17.477300	2.740690	39.136201	1.559990	0.021397	0.216383	0.040522	0.003081	0.001752	0.111747	0.000534	0.010819	0.006124	0.001717	0.017171
9-Dec-2025	0.235827	11.186800	17.529700	2.748870	39.253286	1.564670	0.021461	0.217030	0.040643	0.003090	0.001757	0.112078	0.000536	0.010852	0.006142	0.001722	0.017223
10-Dec-2025	0.235811	11.121400	17.427300	2.732780	39.023724	1.555530	0.021336	0.215761	0.040405	0.003072	0.001747	0.111421	0.000532	0.010788	0.006106	0.001712	0.017122
11-Dec-2025	0.235881	11.181800	17.521800	2.747620	39.235654	1.563970	0.021452	0.216932	0.040625	0.003088	0.001756	0.112026	0.000535	0.010847	0.006139	0.001721	0.017215
12-Dec-2025	0.235464	11.229400	17.596400	2.759390	39.402980	1.570610	0.021543	0.217857	0.040798	0.003102	0.001764	0.112512	0.000538	0.010893	0.006165	0.001729	0.017288
13-Dec-2025	0.235430	11.268500	17.656800	2.769240	39.541175	1.575970	0.021618	0.218615	0.040942	0.003113	0.001770	0.112939	0.000539	0.010932	0.006187	0.001735	0.017348
14-Dec-2025	0.235518	11.321900	17.739600	2.782590	39.729490	1.583320	0.021720	0.219650	0.041139	0.003128	0.001779	0.113507	0.000542	0.010984	0.006216	0.001743	0.017430
15-Dec-2025	0.235480	11.369100	17.813500	2.794260	39.895405	1.589900	0.021811	0.220567	0.041311	0.003141	0.001787	0.113989	0.000544	0.011030	0.006242	0.001750	0.017503
16-Dec-2025	0.235497	11.406700	17.872500	2.803470	40.027219	1.595180	0.021883	0.221296	0.041446	0.003151	0.001793	0.114362	0.000546	0.011066	0.006263	0.001756	0.017561
17-Dec-2025	0.235544	11.450900	17.941800	2.814260	40.182020	1.601370	0.021968	0.222151	0.041606	0.003164	0.001799	0.114798	0.000548	0.011109	0.006287	0.001763	0.017629
18-Dec-2025	0.235339	11.500700	18.019900	2.826490	40.356734	1.608350	0.022063	0.223118	0.041787	0.003177	0.001807	0.115295	0.000551	0.011157	0.006314	0.001771	0.017705
19-Dec-2025	0.235129	11.547500	18.093300	2.838020	40.521074	1.614890	0.022153	0.224026	0.041957	0.003190	0.001815	0.115767	0.000553	0.011203	0.006340	0.001778	0.017777
20-Dec-2025	0.235197	11.532400	18.069100	2.834450	40.468668	1.612710	0.022124	0.223734	0.041904	0.003186	0.001812	0.115635	0.000552	0.011188	0.006331	0.001775	0.017754
21-Dec-2025	0.235148	11.580800	18.145000	2.846370	40.638609	1.619480	0.022217	0.224673	0.042080	0.003200	0.001820	0.116123	0.000554	0.011235	0.006358	0.001783	0.017828
22-Dec-2025	0.235015	11.634400	18.229000	2.859500	40.826518	1.626980	0.022320	0.225712	0.042274	0.003214	0.001828	0.116656	0.000557	0.011287	0.006387	0.001791	0.017911

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Dec-2025	0.235021	11.682000	18.303600	2.871200	40.993556	1.633640	0.022411	0.226636	0.042447	0.003228	0.001836	0.117134	0.000559	0.011334	0.006414	0.001798	0.017984
24-Dec-2025	0.234929	11.724700	18.370400	2.881690	41.143375	1.639600	0.022493	0.227463	0.042602	0.003239	0.001843	0.117563	0.000561	0.011375	0.006437	0.001805	0.018050
25-Dec-2025	0.234866	11.772400	18.445100	2.893440	41.310869	1.646270	0.022585	0.228388	0.042775	0.003253	0.001850	0.118044	0.000564	0.011421	0.006463	0.001812	0.018123
26-Dec-2025	0.234793	11.823900	18.525800	2.906130	41.491722	1.653460	0.022683	0.229389	0.042963	0.003267	0.001858	0.118564	0.000566	0.011471	0.006491	0.001820	0.018203
27-Dec-2025	0.234624	11.865200	18.590400	2.916260	41.636563	1.659230	0.022763	0.230188	0.043113	0.003278	0.001865	0.118977	0.000568	0.011511	0.006514	0.001827	0.018266
28-Dec-2025	0.234579	11.892300	18.632800	2.922930	41.731699	1.663020	0.022815	0.230714	0.043211	0.003286	0.001869	0.119251	0.000569	0.011538	0.006529	0.001831	0.018308
29-Dec-2025	0.234575	11.964500	18.745800	2.940730	41.985283	1.673090	0.022953	0.232115	0.043474	0.003306	0.001880	0.119982	0.000573	0.011608	0.006569	0.001842	0.018419
30-Dec-2025	0.234403	12.032300	18.852100	2.957410	42.223267	1.682580	0.023083	0.233431	0.043720	0.003325	0.001891	0.120663	0.000576	0.011674	0.006606	0.001852	0.018523
31-Dec-2025	0.234291	12.091500	18.944800	2.971950	42.430966	1.690850	0.023197	0.234578	0.043935	0.003341	0.001900	0.121256	0.000579	0.011731	0.006638	0.001861	0.018614
1-Jan-2026	0.234319	12.172900	19.072200	2.992000	42.716787	1.702220	0.023353	0.236158	0.044231	0.003364	0.001913	0.122079	0.000583	0.011810	0.006683	0.001874	0.018740
2-Jan-2026	0.234171	12.284900	19.247600	3.019530	43.109820	1.717870	0.023568	0.238330	0.044638	0.003394	0.001931	0.123202	0.000588	0.011919	0.006745	0.001891	0.018912
3-Jan-2026	0.234079	12.263600	19.214200	3.014350	43.035303	1.714880	0.023527	0.237917	0.044561	0.003389	0.001927	0.122996	0.000587	0.011898	0.006733	0.001888	0.018879
4-Jan-2026	0.234090	12.311000	19.288200	3.026060	43.201882	1.721480	0.023618	0.238837	0.044734	0.003402	0.001935	0.123481	0.000589	0.011944	0.006759	0.001895	0.018952
5-Jan-2026	0.233961	12.341700	19.336300	3.033620	43.309672	1.725770	0.023677	0.239432	0.044845	0.003410	0.001940	0.123790	0.000591	0.011974	0.006776	0.001900	0.018999
6-Jan-2026	0.233835	12.387000	19.407200	3.044740	43.468578	1.732100	0.023764	0.240310	0.045010	0.003423	0.001947	0.124244	0.000593	0.012018	0.006801	0.001907	0.019069
7-Jan-2026	0.233853	12.436700	19.484900	3.057030	43.643289	1.739020	0.023859	0.241275	0.045191	0.003437	0.001955	0.124753	0.000595	0.012067	0.006828	0.001915	0.019146
8-Jan-2026	0.233778	12.462000	19.524400	3.063280	43.732201	1.742540	0.023907	0.241765	0.045283	0.003444	0.001959	0.125011	0.000596	0.012091	0.006842	0.001918	0.019185
9-Jan-2026	0.233675	12.505600	19.592800	3.074000	43.885215	1.748650	0.023991	0.242612	0.045441	0.003456	0.001966	0.125448	0.000599	0.012133	0.006866	0.001925	0.019252
10-Jan-2026	0.233627	12.564200	19.684300	3.088470	44.091127	1.756800	0.024103	0.243748	0.045655	0.003472	0.001975	0.126045	0.000601	0.012190	0.006898	0.001934	0.019342
11-Jan-2026	0.233594	12.586100	19.718600	3.093880	44.168090	1.759860	0.024146	0.244173	0.045735	0.003478	0.001979	0.126269	0.000602	0.012212	0.006910	0.001938	0.019375
12-Jan-2026	0.233506	12.512300	19.602400	3.075940	43.909934	1.749450	0.024004	0.242743	0.045469	0.003458	0.001967	0.125556	0.000599	0.012141	0.006869	0.001926	0.019262
13-Jan-2026	0.233433	12.538000	19.642800	3.082190	43.999844	1.753060	0.024053	0.243239	0.045561	0.003465	0.001971	0.125806	0.000600	0.012165	0.006883	0.001930	0.019301
14-Jan-2026	0.233447	12.575900	19.702400	3.091430	44.132531	1.758400	0.024126	0.243974	0.045698	0.003476	0.001977	0.126177	0.000602	0.012202	0.006904	0.001936	0.019360
15-Jan-2026	0.233327	12.649300	19.816800	3.109670	44.390923	1.768580	0.024267	0.245400	0.045967	0.003496	0.001989	0.126938	0.000605	0.012274	0.006944	0.001947	0.019473
16-Jan-2026	0.233189	12.681500	19.867200	3.117630	44.504106	1.773070	0.024329	0.246025	0.046084	0.003505	0.001994	0.127267	0.000607	0.012305	0.006962	0.001952	0.019522
17-Jan-2026	0.233173	12.732800	19.948200	3.130050	44.683348	1.780330	0.024427	0.247020	0.046269	0.003519	0.002002	0.127755	0.000609	0.012354	0.006990	0.001960	0.019601
18-Jan-2026	0.233129	12.820600	20.085700	3.151610	44.991368	1.792610	0.024595	0.248722	0.046587	0.003543	0.002015	0.128634	0.000614	0.012440	0.007038	0.001974	0.019736
19-Jan-2026	0.233027	12.922600	20.245500	3.176660	45.349218	1.806870	0.024791	0.250700	0.046958	0.003571	0.002031	0.129655	0.000619	0.012538	0.007094	0.001989	0.019893
20-Jan-2026	0.232953	13.025700	20.407100	3.202010	45.711050	1.821300	0.024989	0.252701	0.047333	0.003600	0.002048	0.130688	0.000623	0.012638	0.007151	0.002005	0.020052
21-Jan-2026	0.232935	13.157800	20.614400	3.234380	46.174203	1.839810	0.025242	0.255264	0.047812	0.003636	0.002068	0.132000	0.000630	0.012766	0.007224	0.002026	0.020256
22-Jan-2026	0.232806	13.336600	20.894500	3.278360	46.801777	1.864800	0.025585	0.258733	0.048462	0.003686	0.002096	0.133797	0.000638	0.012940	0.007322	0.002053	0.020531
23-Jan-2026	0.232706	13.498100	21.147400	3.318100	47.368692	1.887370	0.025895	0.261866	0.049049	0.003730	0.002122	0.135423	0.000646	0.013097	0.007410	0.002078	0.020779
24-Jan-2026	0.232629	13.610700	21.323400	3.345850	47.764128	1.903060	0.026111	0.264050	0.049459	0.003762	0.002140	0.136564	0.000651	0.013206	0.007472	0.002095	0.020953
25-Jan-2026	0.232608	13.691900	21.450600	3.365840	48.049203	1.914410	0.026267	0.265625	0.049754	0.003784	0.002153	0.137382	0.000655	0.013285	0.007517	0.002108	0.021078
26-Jan-2026	0.232619	13.728400	21.507600	3.374830	48.177365	1.919490	0.026337	0.266333	0.049887	0.003794	0.002158	0.137752	0.000657	0.013320	0.007537	0.002113	0.021134
27-Jan-2026	0.232637	13.749900	21.541400	3.380130	48.252876	1.922510	0.026378	0.266751	0.049965	0.003800	0.002162	0.137969	0.000658	0.013341	0.007549	0.002117	0.021167
28-Jan-2026	0.232658	13.777300	21.584400	3.386850	48.348966	1.926350	0.026431	0.267282	0.050064	0.003808	0.002166	0.138242	0.000659	0.013368	0.007564	0.002121	0.021209
29-Jan-2026	0.232692	13.802700	21.624300	3.393060	48.437963	1.929920	0.026479	0.267774	0.050156	0.003815	0.002170	0.138492	0.000661	0.013392	0.007578	0.002125	0.021248
30-Jan-2026	0.232705	13.833200	21.672100	3.400520	48.544842	1.934190	0.026538	0.268365	0.050266	0.003823	0.002175	0.138795	0.000662	0.013422	0.007594	0.002130	0.021295
31-Jan-2026	0.232703	13.893700	21.766900	3.415390	48.757145	1.942650	0.026654	0.269539	0.050486	0.003840	0.002184	0.139401	0.000665	0.013481	0.007628	0.002139	0.021388
1-Feb-2026	0.232700	13.960900	21.872100	3.431920	48.993014	1.952040	0.026783	0.270842	0.050730	0.003858	0.002195	0.140077	0.000668	0.013546	0.007664	0.002149	0.021492
2-Feb-2026	0.232690	14.019000	21.963200	3.446220	49.196977	1.960160	0.026894	0.271970	0.050941	0.003874	0.002204	0.140662	0.000671	0.013602	0.007696	0.002158	0.021581
3-Feb-2026	0.232683	14.092400	22.078200	3.464270	49.454587	1.970430	0.027035	0.273394	0.051208	0.003895	0.002215	0.141399	0.000674	0.013673	0.007737	0.002169	0.021694
4-Feb-2026	0.232674	14.171400	22.201900	3.483680	49.731780	1.981470	0.027187	0.274925	0.051495	0.003917	0.002228	0.142192	0.000678	0.013750	0.007780	0.002182	0.021816
5-Feb-2026	0.232663	14.243700	22.315100	3.501450	49.985490	1.991580	0.027325	0.276328	0.051757	0.003937	0.002239	0.142917	0.000682	0.013820	0.007820	0.002193	0.021927
6-Feb-2026	0.232651	14.143800	22.158700	3.476910	49.634984	1.977610	0.027134	0.274391	0.051395	0.003909	0.002223	0.141917	0.000677	0.013723	0.007765	0.002177	0.021773
7-Feb-2026	0.232644	14.174500	22.206800	3.484450	49.742692	1.981900	0.027193	0.274986	0.051506	0.003917	0.002228	0.142224	0.000678	0.013753	0.007782	0.002182	0.021820
8-Feb-2026	0.232632	14.216400	22.272400	3.494750	49.889731	1.987760	0.027273	0.275798	0.051658	0.003929	0.002235	0.142644	0.000680	0.013794	0.007805	0.002188	0.021885
9-Feb-2026	0.232625	14.265300	22.349100	3.506770	50.061333	1.994610	0.027367	0.276747	0.051836	0.003943	0.002243	0.143135	0.000683	0.013841	0.007832	0.002196	0.021960
10-Feb-2026	0.232619	14.308900	22.417300	3.517470	50.214265	2.000700	0.027450	0.277592	0.051994	0.003955	0.002249	0.143571	0.000685	0.013883	0.007855	0.002203	0.022027
11-Feb-2026	0.232619	14.364300	22.504200	3.531090	50.408686	2.008450	0.027557	0.278667	0.052195	0.003970	0.002258	0.144127	0.000688	0.013937	0.007886	0.002211	0.022113
12-Feb-2026	0.232618	14.310300	22.419700	3.517810	50.219161	2.000910	0.027453	0.277620	0.051999	0.003955	0.002250	0.143584	0.000685	0.013885	0.007856	0.002203	0.022030

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Feb-2026	0.232617	14.373200	22.518100	3.533250	50.439804	2.009700	0.027574	0.278839	0.052227	0.003972	0.002259	0.144214	0.000688	0.013946	0.007891	0.002213	0.022126
14-Feb-2026	0.232616	14.435300	22.615400	3.548510	50.657708	2.018380	0.027693	0.280043	0.052452	0.003989	0.002269	0.144836	0.000691	0.014006	0.007925	0.002222	0.022222
15-Feb-2026	0.232615	14.499400	22.715800	3.564260	50.882624	2.027340	0.027816	0.281287	0.052685	0.004007	0.002279	0.145479	0.000694	0.014068	0.007960	0.002232	0.022321
16-Feb-2026	0.232617	14.565700	22.819900	3.580580	51.115381	2.036630	0.027943	0.282574	0.052926	0.004026	0.002290	0.146145	0.000697	0.014133	0.007997	0.002242	0.022423
17-Feb-2026	0.232619	14.631500	22.922900	3.596740	51.346231	2.045820	0.028069	0.283850	0.053165	0.004044	0.002300	0.146804	0.000700	0.014196	0.008033	0.002252	0.022524
18-Feb-2026	0.232620	14.696600	23.024900	3.612750	51.574715	2.054930	0.028194	0.285113	0.053402	0.004062	0.002310	0.147457	0.000703	0.014260	0.008068	0.002262	0.022624
19-Feb-2026	0.232620	14.760600	23.125100	3.628460	51.799216	2.063880	0.028317	0.286354	0.053634	0.004079	0.002320	0.148098	0.000706	0.014322	0.008103	0.002272	0.022723
20-Feb-2026	0.232620	14.824100	23.224700	3.644080	52.022099	2.072770	0.028439	0.287587	0.053865	0.004097	0.002330	0.148736	0.000710	0.014383	0.008138	0.002282	0.022821
21-Feb-2026	0.232621	14.887200	23.323500	3.659570	52.243448	2.081580	0.028560	0.288809	0.054094	0.004114	0.002340	0.149368	0.000713	0.014444	0.008173	0.002292	0.022918
22-Feb-2026	0.232621	14.950500	23.422700	3.675130	52.465584	2.090430	0.028681	0.290037	0.054324	0.004132	0.002350	0.150002	0.000716	0.014506	0.008208	0.002302	0.023015
23-Feb-2026	0.232621	15.016600	23.526400	3.691390	52.697594	2.099690	0.028808	0.291321	0.054564	0.004150	0.002361	0.150666	0.000719	0.014570	0.008244	0.002312	0.023117
24-Feb-2026	0.232620	15.103100	23.662000	3.712570	53.000804	2.111800	0.028974	0.292996	0.054877	0.004174	0.002374	0.151525	0.000723	0.014654	0.008292	0.002325	0.023250
25-Feb-2026	0.232621	15.160600	23.751900	3.726770	53.202857	2.119820	0.029084	0.294114	0.055087	0.004190	0.002383	0.152109	0.000726	0.014710	0.008323	0.002334	0.023339
26-Feb-2026	0.232620	15.199700	23.813200	3.736380	53.340064	2.125290	0.029159	0.294873	0.055229	0.004201	0.002389	0.152501	0.000728	0.014748	0.008345	0.002340	0.023399
27-Feb-2026	0.232621	15.275500	23.932000	3.755020	53.606096	2.135890	0.029305	0.296343	0.055505	0.004222	0.002401	0.153262	0.000731	0.014821	0.008386	0.002352	0.023515
28-Feb-2026	0.232620	15.334900	24.025100	3.769610	53.814499	2.144200	0.029418	0.297495	0.055720	0.004238	0.002411	0.153857	0.000734	0.014879	0.008419	0.002361	0.023607
1-Mar-2026	0.232619	15.380600	24.096500	3.780830	53.974816	2.150580	0.029506	0.298380	0.055886	0.004251	0.002418	0.154315	0.000736	0.014923	0.008444	0.002368	0.023677
2-Mar-2026	0.232619	15.441000	24.191200	3.795680	54.186787	2.159030	0.029622	0.299553	0.056106	0.004267	0.002427	0.154920	0.000739	0.014982	0.008477	0.002377	0.023770
3-Mar-2026	0.232620	15.520400	24.315600	3.815190	54.465391	2.170130	0.029774	0.301093	0.056394	0.004289	0.002440	0.155717	0.000743	0.015059	0.008521	0.002389	0.023892
4-Mar-2026	0.232620	15.611100	24.457800	3.837490	54.783701	2.182820	0.029948	0.302853	0.056724	0.004314	0.002454	0.156627	0.000747	0.015147	0.008570	0.002403	0.024032
5-Mar-2026	0.232620	15.704000	24.603400	3.860340	55.109768	2.195810	0.030127	0.304656	0.057061	0.004340	0.002469	0.157559	0.000752	0.015237	0.008621	0.002418	0.024175
6-Mar-2026	0.232620	15.792700	24.742300	3.882130	55.420983	2.208210	0.030297	0.306376	0.057383	0.004365	0.002483	0.158448	0.000756	0.015323	0.008670	0.002431	0.024312
7-Mar-2026	0.232620	15.878700	24.877100	3.903270	55.722780	2.220240	0.030462	0.308045	0.057696	0.004388	0.002496	0.159311	0.000760	0.015406	0.008717	0.002444	0.024444
8-Mar-2026	0.232620	15.972100	25.023300	3.926220	56.050508	2.233290	0.030641	0.309856	0.058035	0.004414	0.002511	0.160247	0.000764	0.015497	0.008769	0.002459	0.024588
9-Mar-2026	0.232620	16.066600	25.171400	3.949440	56.382094	2.246510	0.030822	0.311689	0.058378	0.004440	0.002526	0.161195	0.000769	0.015589	0.008820	0.002473	0.024733
10-Mar-2026	0.232620	16.159800	25.317500	3.972370	56.709240	2.259550	0.031001	0.313498	0.058717	0.004466	0.002540	0.162131	0.000773	0.015679	0.008872	0.002488	0.024877
11-Mar-2026	0.232620	16.259400	25.473600	3.996790	57.058503	2.273490	0.031192	0.315428	0.059078	0.004494	0.002556	0.163125	0.000778	0.015776	0.008926	0.002503	0.025030
12-Mar-2026	0.232620	16.358800	25.629300	4.021230	57.407349	2.287390	0.031382	0.317357	0.059439	0.004521	0.002571	0.164121	0.000783	0.015872	0.008981	0.002518	0.025183
13-Mar-2026	0.232621	16.450500	25.773100	4.043780	57.729185	2.300220	0.031559	0.319137	0.059773	0.004546	0.002586	0.165041	0.000787	0.015961	0.009031	0.002532	0.025324
14-Mar-2026	0.232622	16.535100	25.905700	4.064570	58.026044	2.312050	0.031721	0.320778	0.060080	0.004570	0.002599	0.165890	0.000791	0.016043	0.009078	0.002545	0.025455
15-Mar-2026	0.232622	16.641700	26.072500	4.090820	58.400322	2.326940	0.031925	0.322847	0.060468	0.004599	0.002616	0.166965	0.000797	0.016147	0.009136	0.002562	0.025619
16-Mar-2026	0.232622	16.757100	26.253300	4.119190	58.805303	2.343070	0.032147	0.325086	0.060887	0.004631	0.002634	0.168123	0.000802	0.016259	0.009200	0.002580	0.025796
17-Mar-2026	0.232622	16.879000	26.444200	4.149140	59.233022	2.360110	0.032381	0.327449	0.061330	0.004665	0.002653	0.169345	0.000808	0.016377	0.009267	0.002598	0.025984
18-Mar-2026	0.232622	17.006900	26.644700	4.180590	59.681899	2.378000	0.032626	0.329931	0.061795	0.004700	0.002673	0.170628	0.000814	0.016501	0.009337	0.002618	0.026181
19-Mar-2026	0.232622	17.142500	26.857100	4.213930	60.157786	2.396960	0.032886	0.332562	0.062288	0.004738	0.002695	0.171989	0.000821	0.016633	0.009411	0.002639	0.026390
20-Mar-2026	0.232622	17.285900	27.081800	4.249170	60.660974	2.417010	0.033161	0.335344	0.062809	0.004777	0.002717	0.173427	0.000827	0.016772	0.009490	0.002661	0.026610
21-Mar-2026	0.232622	17.440400	27.323900	4.287090	61.202915	2.438620	0.033457	0.338339	0.063369	0.004820	0.002741	0.174972	0.000835	0.016921	0.009575	0.002685	0.026848
22-Mar-2026	0.232623	17.606400	27.584000	4.327910	61.785514	2.461840	0.033776	0.341561	0.063973	0.004866	0.002768	0.176638	0.000843	0.017083	0.009666	0.002710	0.027104
23-Mar-2026	0.232623	17.785200	27.864200	4.371870	62.413005	2.486850	0.034119	0.345030	0.064622	0.004915	0.002796	0.178432	0.000851	0.017256	0.009764	0.002738	0.027379
24-Mar-2026	0.232623	17.968100	28.150700	4.416830	63.054852	2.512420	0.034470	0.348578	0.065287	0.004966	0.002824	0.180267	0.000860	0.017433	0.009864	0.002766	0.027661
25-Mar-2026	0.232623	18.151600	28.438200	4.461930	63.698773	2.538070	0.034822	0.352137	0.065953	0.005016	0.002853	0.182108	0.000869	0.017611	0.009965	0.002794	0.027943
26-Mar-2026	0.232623	18.337400	28.729300	4.507600	64.350785	2.564050	0.035178	0.355742	0.066629	0.005068	0.002882	0.183972	0.000878	0.017792	0.010067	0.002823	0.028229
27-Mar-2026	0.232623	18.524400	29.022300	4.553570	65.007028	2.590200	0.035537	0.359370	0.067308	0.005120	0.002912	0.185848	0.000887	0.017973	0.010170	0.002852	0.028517
28-Mar-2026	0.232623	18.710900	29.314500	4.599420	65.661529	2.616280	0.035895	0.362988	0.067986	0.005171	0.002941	0.187720	0.000896	0.018154	0.010272	0.002880	0.028804
29-Mar-2026	0.232623	18.914300	29.633000	4.649460	66.375483	2.644700	0.036285	0.366935	0.068726	0.005227	0.002973	0.189765	0.000905	0.018352	0.010384	0.002912	0.029117
30-Mar-2026	0.232623	19.130800	29.972100	4.702660	67.135161	2.674970	0.036700	0.371134	0.069512	0.005287	0.003007	0.191936	0.000916	0.018562	0.010503	0.002945	0.029450
31-Mar-2026	0.232625	19.355200	30.323600	4.757820	67.922637	2.706340	0.037131	0.375487	0.070327	0.005349	0.003043	0.194188	0.000926	0.018779	0.010626	0.002980	0.029796
1-Apr-2026	0.232625	19.585600	30.684700	4.814470	68.731231	2.738570	0.037573	0.379958	0.071165	0.005413	0.003079	0.196500	0.000937	0.019003	0.010752	0.003015	0.030150
2-Apr-2026	0.232625	19.772300	30.977100	4.860350	69.386354	2.764660	0.037931	0.383578	0.071843	0.005464	0.003108	0.198372	0.000946	0.019184	0.010855	0.003044	0.030438
3-Apr-2026	0.232625	19.894000	31.167900	4.890290	69.813532	2.781690	0.038165	0.385941	0.072285	0.005498	0.003127	0.199594	0.000952	0.019302	0.010922	0.003063	0.030625
4-Apr-2026	0.232625	19.982300	31.306200	4.911990	70.123378	2.794040	0.038334	0.387654	0.072606	0.005522	0.003141	0.200480	0.000956	0.019388	0.010970	0.003076	0.030761
5-Apr-2026	0.232625	20.049900	31.412100	4.928600	70.360575	2.803490	0.038464	0.388965	0.072852	0.005541	0.003152	0.201158	0.000960	0.019453	0.011007	0.003087	0.030865

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Apr-2026	0.232625	20.103100	31.495400	4.941680	70.547279	2.810930	0.038566	0.389997	0.073045	0.005556	0.003160	0.201692	0.000962	0.019505	0.011037	0.003095	0.030947
7-Apr-2026	0.232625	20.146000	31.562600	4.952210	70.697763	2.816920	0.038648	0.390828	0.073201	0.005568	0.003167	0.202122	0.000964	0.019547	0.011060	0.003101	0.031013
8-Apr-2026	0.232625	20.181200	31.617800	4.960870	70.821319	2.821840	0.038715	0.391511	0.073329	0.005577	0.003172	0.202475	0.000966	0.019581	0.011079	0.003107	0.031067
9-Apr-2026	0.232625	20.210700	31.664000	4.968120	70.924836	2.825960	0.038772	0.392083	0.073436	0.005586	0.003177	0.202771	0.000967	0.019609	0.011096	0.003111	0.031113
10-Apr-2026	0.232625	20.235700	31.703100	4.974260	71.012546	2.829460	0.038820	0.392568	0.073527	0.005592	0.003181	0.203022	0.000969	0.019634	0.011109	0.003115	0.031151
11-Apr-2026	0.232625	20.257100	31.736800	4.979540	71.087724	2.832460	0.038861	0.392985	0.073605	0.005598	0.003184	0.203237	0.000970	0.019654	0.011121	0.003118	0.031184
12-Apr-2026	0.232625	20.275700	31.765900	4.984120	71.153029	2.835060	0.038897	0.393346	0.073672	0.005604	0.003187	0.203424	0.000970	0.019673	0.011131	0.003121	0.031213
13-Apr-2026	0.232625	20.292000	31.791300	4.988100	71.210120	2.837330	0.038928	0.393660	0.073731	0.005608	0.003190	0.203586	0.000971	0.019688	0.011140	0.003124	0.031238
14-Apr-2026	0.232625	20.305000	31.811700	4.991300	71.255758	2.839150	0.038953	0.393913	0.073779	0.005612	0.003192	0.203717	0.000972	0.019701	0.011147	0.003126	0.031258
15-Apr-2026	0.232625	20.316600	31.829900	4.994160	71.296501	2.840780	0.038975	0.394139	0.073821	0.005615	0.003194	0.203834	0.000972	0.019712	0.011154	0.003128	0.031276
16-Apr-2026	0.232625	20.327200	31.846500	4.996760	71.333676	2.842260	0.038996	0.394344	0.073859	0.005618	0.003195	0.203940	0.000973	0.019722	0.011160	0.003129	0.031292
17-Apr-2026	0.232625	20.336800	31.861600	4.999130	71.367407	2.843610	0.039014	0.394531	0.073894	0.005620	0.003197	0.204037	0.000973	0.019732	0.011165	0.003131	0.031307
18-Apr-2026	0.232625	20.345600	31.875400	5.001300	71.398317	2.844840	0.039031	0.394702	0.073926	0.005623	0.003198	0.204125	0.000974	0.019740	0.011170	0.003132	0.031320
19-Apr-2026	0.232625	20.353800	31.888300	5.003310	71.427069	2.845980	0.039047	0.394861	0.073956	0.005625	0.003199	0.204207	0.000974	0.019748	0.011174	0.003133	0.031333
20-Apr-2026	0.232625	20.361500	31.900300	5.005210	71.454120	2.847060	0.039061	0.395010	0.073984	0.005627	0.003201	0.204284	0.000975	0.019756	0.011178	0.003134	0.031345
21-Apr-2026	0.232625	20.368700	31.911600	5.006970	71.479346	2.848060	0.039075	0.395149	0.074010	0.005629	0.003202	0.204356	0.000975	0.019763	0.011182	0.003136	0.031356
22-Apr-2026	0.232625	20.375400	31.922100	5.008620	71.502871	2.849000	0.039088	0.395279	0.074035	0.005631	0.003203	0.204424	0.000975	0.019769	0.011186	0.003137	0.031366
23-Apr-2026	0.232625	20.381800	31.932000	5.010170	71.525235	2.849890	0.039100	0.395402	0.074058	0.005633	0.003204	0.204487	0.000976	0.019775	0.011190	0.003138	0.031376
24-Apr-2026	0.232625	20.387700	31.941400	5.011640	71.546020	2.850720	0.039112	0.395518	0.074079	0.005635	0.003205	0.204547	0.000976	0.019781	0.011193	0.003139	0.031385
25-Apr-2026	0.232625	20.393300	31.950100	5.013010	71.565645	2.851500	0.039122	0.395626	0.074099	0.005636	0.003206	0.204603	0.000976	0.019787	0.011196	0.003139	0.031394
26-Apr-2026	0.232625	20.398500	31.958200	5.014280	71.583860	2.852220	0.039132	0.395726	0.074118	0.005637	0.003207	0.204655	0.000976	0.019792	0.011199	0.003140	0.031402
27-Apr-2026	0.232624	20.403200	31.965600	5.015450	71.600414	2.852890	0.039141	0.395819	0.074136	0.005639	0.003207	0.204703	0.000977	0.019796	0.011201	0.003141	0.031409
28-Apr-2026	0.232624	20.407600	31.972500	5.016530	71.615848	2.853500	0.039150	0.395904	0.074151	0.005640	0.003208	0.204747	0.000977	0.019800	0.011204	0.003142	0.031416
29-Apr-2026	0.232624	20.411700	31.978800	5.017520	71.630162	2.854070	0.039158	0.395982	0.074166	0.005641	0.003209	0.204787	0.000977	0.019804	0.011206	0.003142	0.031422
30-Apr-2026	0.232638	20.415200	31.984300	5.018390	71.642484	2.854560	0.039164	0.396051	0.074179	0.005642	0.003209	0.204823	0.000977	0.019808	0.011208	0.003143	0.031427
1-May-2026	0.232782	20.413400	31.981600	5.017950	71.636178	2.854310	0.039161	0.396016	0.074173	0.005642	0.003209	0.204805	0.000977	0.019806	0.011207	0.003142	0.031425
2-May-2026	0.233585	20.384400	31.936100	5.010820	71.534404	2.850260	0.039105	0.395453	0.074067	0.005634	0.003204	0.204514	0.000976	0.019778	0.011191	0.003138	0.031380
3-May-2026	0.236791	20.207500	31.658900	4.967330	70.913592	2.825520	0.038766	0.392021	0.073424	0.005585	0.003176	0.202739	0.000967	0.019606	0.011094	0.003111	0.031108
4-May-2026	0.241000	19.871600	31.132800	4.884780	69.734909	2.778560	0.038122	0.385506	0.072204	0.005492	0.003124	0.199369	0.000951	0.019280	0.010910	0.003059	0.030591
5-May-2026	0.243986	19.463800	30.493900	4.784530	68.303803	2.721540	0.037339	0.377595	0.070722	0.005379	0.003060	0.195278	0.000932	0.018885	0.010686	0.002996	0.029963
6-May-2026	0.247629	19.014100	29.789400	4.673990	66.725699	2.658660	0.036477	0.368871	0.069088	0.005255	0.002989	0.190766	0.000910	0.018448	0.010439	0.002927	0.029271
7-May-2026	0.251220	18.604700	29.147900	4.573340	65.288950	2.601410	0.035691	0.360927	0.067600	0.005142	0.002925	0.186658	0.000890	0.018051	0.010214	0.002864	0.028640
8-May-2026	0.253896	18.264500	28.615000	4.489720	64.095123	2.553850	0.035039	0.354329	0.066365	0.005048	0.002871	0.183245	0.000874	0.017721	0.010027	0.002812	0.028117
9-May-2026	0.256297	17.953600	28.127900	4.413290	63.004067	2.510380	0.034442	0.348297	0.065235	0.004962	0.002822	0.180125	0.000859	0.017419	0.009856	0.002764	0.027638
10-May-2026	0.258980	17.646700	27.647100	4.337860	61.927117	2.467470	0.033853	0.342344	0.064120	0.004877	0.002774	0.177046	0.000845	0.017122	0.009688	0.002717	0.027166
11-May-2026	0.264170	17.509600	27.432300	4.304150	61.445961	2.448300	0.033590	0.339684	0.063621	0.004839	0.002752	0.175671	0.000838	0.016989	0.009613	0.002695	0.026955
12-May-2026	0.266441	17.250400	27.026100	4.240420	60.536298	2.412040	0.033093	0.334654	0.062679	0.004767	0.002712	0.173069	0.000826	0.016737	0.009470	0.002656	0.026556
13-May-2026	0.273276	17.003400	26.639200	4.179700	59.669494	2.377510	0.032619	0.329862	0.061782	0.004699	0.002673	0.170591	0.000814	0.016497	0.009335	0.002618	0.026175
14-May-2026	0.275515	16.776700	26.284000	4.123970	58.873928	2.345810	0.032184	0.325464	0.060958	0.004637	0.002637	0.168316	0.000803	0.016277	0.009210	0.002583	0.025826
15-May-2026	0.280600	16.115000	25.247400	3.961330	56.551912	2.253300	0.030915	0.312628	0.058554	0.004454	0.002533	0.161678	0.000771	0.015636	0.008847	0.002481	0.024808
16-May-2026	0.287751	15.520900	24.316700	3.815220	54.466763	2.170240	0.029775	0.301101	0.056394	0.004289	0.002440	0.155711	0.000743	0.015059	0.008521	0.002389	0.023893
17-May-2026	0.295987	15.424300	24.165300	3.791480	54.127792	2.156730	0.029590	0.299226	0.056043	0.004263	0.002425	0.154741	0.000738	0.014965	0.008468	0.002374	0.023744
18-May-2026	0.297337	15.340800	24.034600	3.770970	53.834832	2.145070	0.029430	0.297608	0.055740	0.004240	0.002411	0.153905	0.000734	0.014884	0.008422	0.002362	0.023616
19-May-2026	0.299385	15.159300	23.750300	3.726360	53.197923	2.119680	0.029081	0.294086	0.055081	0.004189	0.002383	0.152084	0.000726	0.014708	0.008322	0.002334	0.023337
20-May-2026	0.302696	14.985500	23.477900	3.683640	52.588023	2.095380	0.028748	0.290714	0.054450	0.004141	0.002356	0.150341	0.000717	0.014540	0.008227	0.002307	0.023069
21-May-2026	0.300648	14.688800	23.012900	3.610730	51.546920	2.053850	0.028178	0.284954	0.053373	0.004059	0.002309	0.147366	0.000703	0.014252	0.008064	0.002261	0.022612
22-May-2026	0.300818	14.352000	22.485100	3.527990	50.365207	2.006730	0.027532	0.278417	0.052152	0.003966	0.002256	0.143991	0.000687	0.013925	0.007879	0.002209	0.022094
23-May-2026	0.303319	14.064000	22.033900	3.457190	49.354516	1.966470	0.026979	0.272830	0.051105	0.003887	0.002211	0.141100	0.000673	0.013646	0.007721	0.002165	0.021650
24-May-2026	0.307772	13.651000	21.386600	3.355730	47.905443	1.908670	0.026187	0.264812	0.049608	0.003772	0.002146	0.136962	0.000653	0.013245	0.007494	0.002101	0.021014
25-May-2026	0.309004	13.299400	20.835100	3.269480	46.672320	1.859360	0.025511	0.257976	0.048339	0.003675	0.002091	0.133449	0.000637	0.012905	0.007301	0.002047	0.020472
26-May-2026	0.311419	12.970400	20.320200	3.188480	45.517249	1.813470	0.024881	0.251605	0.047137	0.003584	0.002039	0.130138	0.000621	0.012585	0.007121	0.001997	0.019966
27-May-2026	0.314700	12.666300	19.843600	3.113760	44.450215	1.770920	0.024297	0.245702	0.046033	0.003500	0.001991	0.127089	0.000606	0.012290	0.006954	0.001950	0.019498

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-May-2026	0.320196	12.570000	19.692700	3.090140	44.112487	1.757430	0.024112	0.243832	0.045686	0.003474	0.001976	0.126127	0.000602	0.012197	0.006901	0.001935	0.019350
29-May-2026	0.330039	12.450700	19.505500	3.060820	43.693855	1.740720	0.023883	0.241514	0.045253	0.003441	0.001958	0.124931	0.000596	0.012081	0.006835	0.001917	0.019166
30-May-2026	0.344140	12.357100	19.359000	3.037840	43.365504	1.727640	0.023704	0.239701	0.044912	0.003415	0.001943	0.123994	0.000591	0.011991	0.006784	0.001902	0.019022
31-May-2026	0.355486	12.234300	19.166000	3.007790	42.935126	1.710390	0.023468	0.237318	0.044468	0.003381	0.001924	0.122781	0.000586	0.011872	0.006716	0.001883	0.018833
1-Jun-2026	0.410450	12.092600	18.943600	2.973080	42.438366	1.690510	0.023196	0.234567	0.043956	0.003342	0.001902	0.121373	0.000579	0.011735	0.006639	0.001861	0.018614
2-Jun-2026	0.440188	11.926200	18.678000	2.933580	41.860204	1.666290	0.022873	0.231303	0.043428	0.003294	0.001878	0.119806	0.000570	0.011580	0.006546	0.001836	0.018360
3-Jun-2026	0.501882	11.724700	18.352300	2.887000	41.165242	1.636200	0.022479	0.227338	0.047028	0.003236	0.001856	0.118009	0.000560	0.011397	0.006434	0.001805	0.018055
4-Jun-2026	0.622590	11.550200	18.055700	2.850830	40.580567	1.608060	0.022130	0.223836	0.043184	0.003182	0.001846	0.116849	0.000551	0.011258	0.006335	0.001780	0.017797
5-Jun-2026	0.655186	11.298200	17.629200	2.798050	39.733975	1.567410	0.021626	0.218792	0.043300	0.003104	0.001826	0.115210	0.000537	0.011054	0.006192	0.001742	0.017425
6-Jun-2026	0.712031	11.116100	17.323000	2.759250	39.119493	1.537990	0.021262	0.215122	0.042328	0.003047	0.001810	0.113590	0.000527	0.010904	0.006089	0.001715	0.017154
7-Jun-2026	0.780080	10.862100	16.895500	2.705450	38.263707	1.496710	0.020752	0.210023	0.041858	0.002969	0.001787	0.111924	0.000514	0.010695	0.005946	0.001678	0.016777
8-Jun-2026	0.849493	10.661000	16.556000	2.663090	37.587122	1.463730	0.020344	0.205906	0.041426	0.002906	0.001766	0.110412	0.000503	0.010531	0.005832	0.001648	0.016478
9-Jun-2026	0.931870	10.455800	16.211100	2.619380	36.894739	1.430430	0.019926	0.201678	0.041310	0.002842	0.001747	0.108847	0.000492	0.010362	0.005715	0.001617	0.016171
10-Jun-2026	1.049592	10.286900	15.922600	2.587390	36.341261	1.402130	0.019579	0.198168	0.041148	0.002788	0.001740	0.107711	0.000482	0.010241	0.005619	0.001592	0.015920
11-Jun-2026	1.142792	10.148500	15.683800	2.557050	35.870736	1.378560	0.019295	0.195300	0.040910	0.002744	0.001734	0.106828	0.000475	0.010122	0.005540	0.001572	0.015715
12-Jun-2026	1.285852	9.969660	15.368700	2.523400	35.285602	1.346940	0.018929	0.191622	0.040735	0.002685	0.001723	0.105867	0.000464	0.009996	0.005437	0.001546	0.015457
13-Jun-2026	1.532577	9.861200	15.183700	2.500700	34.921299	1.328800	0.018704	0.189279	0.040419	0.002650	0.001709	0.104936	0.000458	0.009907	0.005375	0.001529	0.015294
14-Jun-2026	1.754024	9.680230	14.871500	2.464270	34.319398	1.297940	0.018330	0.185412	0.040005	0.002593	0.001692	0.103537	0.000448	0.009767	0.005272	0.001502	0.015025
15-Jun-2026	2.001916	9.524200	14.597200	2.433680	33.803822	1.270770	0.018014	0.181780	0.039678	0.002544	0.001677	0.102659	0.000439	0.009654	0.005182	0.001480	0.014796
16-Jun-2026	2.183848	9.383060	14.356100	2.404120	33.329667	1.247370	0.017729	0.178687	0.039403	0.002501	0.001661	0.101714	0.000431	0.009542	0.005102	0.001458	0.014583
17-Jun-2026	2.339570	9.215180	14.064100	2.370530	32.772147	1.218700	0.017393	0.175094	0.039168	0.002449	0.001648	0.100718	0.000422	0.009416	0.005006	0.001433	0.014335
18-Jun-2026	2.384081	9.066500	13.816800	2.338670	32.269694	1.194620	0.017081	0.172290	0.038930	0.002402	0.001636	0.099720	0.000414	0.009292	0.004922	0.001411	0.014109
19-Jun-2026	2.394262	8.886080	13.504400	2.302210	31.669043	1.164020	0.016719	0.168438	0.038717	0.002346	0.001623	0.098654	0.000404	0.009155	0.004819	0.001384	0.013841
20-Jun-2026	2.401070	8.783170	13.326900	2.281170	31.325434	1.146750	0.016515	0.166307	0.038580	0.002315	0.001616	0.097931	0.000398	0.009073	0.004760	0.001369	0.013687
21-Jun-2026	2.429072	8.652730	13.102000	2.254230	30.888786	1.124970	0.016257	0.163542	0.038446	0.002276	0.001607	0.097239	0.000391	0.008973	0.004686	0.001349	0.013491
22-Jun-2026	2.485449	8.513870	12.861100	2.226010	30.425843	1.101500	0.015983	0.160636	0.038312	0.002235	0.001600	0.096492	0.000383	0.008870	0.004607	0.001328	0.013282
23-Jun-2026	2.557633	8.376750	12.622500	2.198130	29.968644	1.078240	0.015722	0.157732	0.038143	0.002197	0.001589	0.095765	0.000375	0.008770	0.004529	0.001307	0.013074
24-Jun-2026	2.636182	8.249100	12.397800	2.172820	29.545675	1.056210	0.015456	0.155048	0.038009	0.002157	0.001581	0.095129	0.000368	0.008673	0.004456	0.001288	0.012882
25-Jun-2026	2.758161	8.111330	12.155100	2.146470	29.093154	1.032360	0.015185	0.152180	0.037876	0.002116	0.001573	0.094417	0.000360	0.008579	0.004378	0.001268	0.012677
26-Jun-2026	2.846047	7.988650	11.937800	2.122060	28.686302	1.010890	0.014976	0.149651	0.037724	0.002085	0.001564	0.093926	0.000353	0.008498	0.004307	0.001250	0.012496
27-Jun-2026	2.900134	7.846640	11.685900	2.094510	28.218252	0.986148	0.014701	0.146689	0.037591	0.002043	0.001555	0.093214	0.000344	0.008397	0.004226	0.001228	0.012284
28-Jun-2026	2.947133	7.723080	11.470300	2.069900	27.808379	0.965019	0.014455	0.144133	0.037459	0.002006	0.001549	0.092545	0.000337	0.008306	0.004156	0.001210	0.012100
29-Jun-2026	3.012157	7.605130	11.259200	2.046750	27.418526	0.944517	0.014225	0.141658	0.037293	0.001970	0.001540	0.091947	0.000330	0.008221	0.004088	0.001192	0.011923
30-Jun-2026	3.125163	7.499640	11.067300	2.026400	27.071316	0.926077	0.014020	0.139454	0.037173	0.001938	0.001533	0.091441	0.000324	0.008146	0.004028	0.001177	0.011768
1-Jul-2026	3.672544	5.683170	7.946950	1.644660	20.963585	0.623774	0.010344	0.102945	0.033524	0.001423	0.001372	0.082520	0.000224	0.006754	0.003006	0.000902	0.009023
2-Jul-2026	3.906917	5.856470	8.270990	1.670280	21.501819	0.657033	0.010665	0.106133	0.033501	0.001473	0.001372	0.081320	0.000235	0.006866	0.003111	0.000927	0.009272
3-Jul-2026	4.611850	6.412650	9.286530	1.757600	23.250184	0.758842	0.011679	0.116259	0.034039	0.001644	0.001383	0.082613	0.000269	0.007268	0.003445	0.001010	0.010098
4-Jul-2026	6.399695	6.152530	8.809940	1.720410	22.447516	0.711618	0.011222	0.111687	0.033339	0.001575	0.001377	0.082213	0.000253	0.007059	0.003285	0.000968	0.009684
5-Jul-2026	7.813353	6.268000	9.020480	1.738960	22.812233	0.732912	0.011438	0.113867	0.033442	0.001614	0.001379	0.082664	0.000260	0.007141	0.003354	0.000986	0.009857
6-Jul-2026	9.429035	6.457870	9.366540	1.767680	23.404608	0.767787	0.011787	0.117364	0.033704	0.001673	0.001383	0.083265	0.000271	0.007284	0.003470	0.001014	0.010143
7-Jul-2026	10.834029	6.283780	9.045130	1.741680	22.862837	0.735973	0.011487	0.114366	0.033440	0.001626	0.001379	0.083092	0.000261	0.007156	0.003364	0.000988	0.009876
8-Jul-2026	11.041951	6.903980	10.175700	1.836810	24.803222	0.849507	0.012622	0.125720	0.034308	0.001818	0.001392	0.084940	0.000298	0.007620	0.003740	0.001081	0.010814
9-Jul-2026	12.728471	6.610880	9.644390	1.794240	23.896048	0.795872	0.012079	0.120303	0.033785	0.001727	0.001386	0.084001	0.000281	0.007385	0.003559	0.001037	0.010370
10-Jul-2026	14.405771	6.954680	10.265400	1.847350	24.973223	0.858727	0.012726	0.126648	0.034268	0.001840	0.001394	0.085396	0.000302	0.007648	0.003768	0.001088	0.010883
11-Jul-2026	14.918112	6.912320	10.189600	1.841990	24.845378	0.850980	0.012675	0.126140	0.034246	0.001841	0.001394	0.086191	0.000299	0.007625	0.003741	0.001082	0.010819
12-Jul-2026	15.158790	6.606600	9.629040	1.795100	23.888902	0.794971	0.012095	0.120403	0.033685	0.001737	0.001387	0.084517	0.000280	0.007384	0.003556	0.001035	0.010352
13-Jul-2026	15.371086	6.644250	9.701970	1.801560	24.009516	0.801918	0.012150	0.120975	0.033673	0.001745	0.001387	0.084419	0.000283	0.007402	0.003578	0.001041	0.010411
14-Jul-2026	15.978549	6.809360	10.007900	1.829020	24.534876	0.832165	0.012437	0.123877	0.033782	0.001793	0.001390	0.084744	0.000293	0.007508	0.003675	0.001066	0.010661
15-Jul-2026	15.636812	7.002900	10.363800	1.859760	25.144733	0.867597	0.012782	0.127332	0.033967	0.001851	0.001394	0.085214	0.000305	0.007643	0.003791	0.001095	0.010954
16-Jul-2026	15.820614	6.663800	9.739820	1.807060	24.080982	0.805405	0.012177	0.121246	0.033540	0.001752	0.001388	0.084583	0.000284	0.007400	0.003586	0.001044	0.010436
17-Jul-2026	16.876588	6.871140	10.118500	1.838830	24.729539	0.843394	0.012553	0.125012	0.033806	0.001815	0.001392	0.085064	0.000297	0.007554	0.003712	0.001075	0.010749
18-Jul-2026	16.404698	7.138150	10.609700	1.880990	25.569877	0.892280	0.013027	0.129771	0.034123	0.001894	0.001397	0.085679	0.000313	0.007741	0.003872	0.001115	0.011154

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19-Jul-2026	16.839792	6.966190	10.296000	1.855120	25.033961	0.860663	0.012707	0.126545	0.033798	0.001841	0.001393	0.085170	0.000303	0.007609	0.003767	0.001089	0.010891
20-Jul-2026	17.016992	7.015710	10.385800	1.863100	25.190474	0.869712	0.012799	0.127460	0.033842	0.001858	0.001395	0.085370	0.000306	0.007644	0.003797	0.001096	0.010964
21-Jul-2026	17.649786	7.012300	10.380300	1.863120	25.182041	0.869085	0.012791	0.127383	0.033804	0.001857	0.001394	0.085347	0.000305	0.007638	0.003794	0.001096	0.010959
22-Jul-2026	18.133867	7.396060	11.088100	1.925140	26.395688	0.939381	0.013469	0.134209	0.034147	0.001970	0.001402	0.086205	0.000329	0.007898	0.004022	0.001154	0.011540
23-Jul-2026	18.602447	7.259280	10.837700	1.905320	25.972530	0.914343	0.013225	0.131751	0.033907	0.001931	0.001399	0.085919	0.000321	0.007791	0.003938	0.001133	0.011331
24-Jul-2026	18.730755	7.211270	10.745900	1.899130	25.827159	0.905553	0.013155	0.131002	0.033807	0.001923	0.001399	0.086198	0.000318	0.007756	0.003908	0.001125	0.011254
25-Jul-2026	19.411535	7.406700	11.101100	1.929070	26.438440	0.941284	0.013515	0.134585	0.034082	0.001984	0.001403	0.086753	0.000330	0.007904	0.004027	0.001155	0.011548
26-Jul-2026	18.738590	7.334080	10.969700	1.917190	26.208186	0.928071	0.013378	0.133231	0.033992	0.001961	0.001401	0.086458	0.000325	0.007851	0.003984	0.001144	0.011438
27-Jul-2026	17.610357	7.236600	10.792100	1.902890	25.905891	0.910156	0.013197	0.131399	0.033797	0.001931	0.001399	0.086183	0.000319	0.007773	0.003924	0.001129	0.011288
28-Jul-2026	18.453598	7.339270	10.980100	1.918770	26.227652	0.928952	0.013381	0.133239	0.033919	0.001963	0.001401	0.086456	0.000326	0.007848	0.003986	0.001144	0.011443
29-Jul-2026	18.397127	7.399570	11.092700	1.929160	26.421007	0.939983	0.013482	0.134254	0.033923	0.001980	0.001402	0.086545	0.000329	0.007883	0.004021	0.001153	0.011533
30-Jul-2026	18.342184	7.561020	11.389300	1.954640	26.929074	0.969575	0.013770	0.137143	0.034094	0.002028	0.001405	0.086950	0.000339	0.007996	0.004117	0.001178	0.011777
31-Jul-2026	18.343000	7.611560	11.488900	1.966270	27.103165	0.978832	0.013841	0.137895	0.033939	0.002040	0.001406	0.086867	0.000343	0.008005	0.004143	0.001185	0.011854
1-Aug-2026	17.847541	7.504970	11.296600	1.952070	26.778534	0.958851	0.013620	0.135647	0.033640	0.002007	0.001404	0.086512	0.000336	0.007911	0.004076	0.001169	0.011689
2-Aug-2026	17.189416	7.571760	11.412400	1.960050	26.978171	0.970944	0.013753	0.136923	0.033845	0.002033	0.001405	0.086963	0.000340	0.007979	0.004119	0.001179	0.011787
3-Aug-2026	15.724108	7.500120	11.279900	1.950130	26.758435	0.957622	0.013620	0.135571	0.033687	0.002015	0.001404	0.086929	0.000336	0.007923	0.004075	0.001167	0.011674
4-Aug-2026	16.883802	7.612480	11.484900	1.967360	27.109951	0.978146	0.013822	0.137575	0.033832	0.002049	0.001406	0.087266	0.000343	0.008006	0.004143	0.001184	0.011843
5-Aug-2026	17.031212	7.703940	11.673300	1.992640	27.442430	0.993032	0.013926	0.138575	0.033750	0.002072	0.001408	0.087293	0.000349	0.008043	0.004190	0.001198	0.011983
6-Aug-2026	17.257014	7.891000	12.001900	2.015170	28.002297	1.028050	0.014252	0.141791	0.033925	0.002131	0.001412	0.087822	0.000360	0.008175	0.004305	0.001226	0.012263
7-Aug-2026	17.034076	7.854270	11.931800	2.007130	27.877474	1.021860	0.014217	0.141480	0.033975	0.002121	0.001411	0.087783	0.000358	0.008163	0.004286	0.001221	0.012207
8-Aug-2026	17.152033	7.882580	11.986300	2.012820	27.971595	1.026720	0.014245	0.141728	0.033915	0.002128	0.001411	0.087751	0.000359	0.008173	0.004301	0.001225	0.012249
9-Aug-2026	17.712678	8.107600	12.402600	2.049780	28.685671	1.067420	0.014612	0.145369	0.034085	0.002194	0.001416	0.088223	0.000373	0.008320	0.004434	0.001259	0.012589
10-Aug-2026	17.722339	8.006890	12.219200	2.035140	28.373911	1.048850	0.014422	0.143450	0.033881	0.002164	0.001413	0.087953	0.000367	0.008240	0.004372	0.001243	0.012435
11-Aug-2026	17.534582	8.075300	12.345000	2.047120	28.594064	1.061070	0.014529	0.144500	0.033886	0.002186	0.001415	0.088184	0.000371	0.008282	0.004412	0.001254	0.012535
12-Aug-2026	16.376841	7.881590	11.982200	2.015810	27.981436	1.025210	0.014193	0.141072	0.033709	0.002134	0.001412	0.088012	0.000359	0.008158	0.004297	0.001223	0.012235
13-Aug-2026	16.671873	7.825260	11.884300	2.008880	27.812242	1.014930	0.014073	0.139872	0.033494	0.002114	0.001410	0.087681	0.000356	0.008099	0.004260	0.001215	0.012149
14-Aug-2026	16.927739	7.904590	12.028800	2.021590	28.062669	1.029310	0.014211	0.141247	0.033567	0.002140	0.001412	0.087972	0.000361	0.008155	0.004308	0.001227	0.012267
15-Aug-2026	16.807100	8.263040	12.689800	2.078270	29.191127	1.094680	0.014828	0.147404	0.033941	0.002244	0.001418	0.088714	0.000383	0.008404	0.004522	0.001281	0.012811
16-Aug-2026	16.103582	7.926230	12.076100	2.028660	28.145818	1.032560	0.014192	0.141007	0.033328	0.002142	0.001412	0.087753	0.000362	0.008140	0.004316	0.001230	0.012296
17-Aug-2026	15.490459	7.963110	12.140400	2.034580	28.262286	1.039190	0.014263	0.141701	0.033343	0.002159	0.001412	0.088079	0.000365	0.008169	0.004338	0.001235	0.012347
18-Aug-2026	14.994065	8.017290	12.240800	2.043750	28.435336	1.048890	0.014346	0.142519	0.033360	0.002175	0.001413	0.088199	0.000368	0.008203	0.004370	0.001243	0.012428
19-Aug-2026	15.073280	8.042920	12.288300	2.050230	28.526018	1.052900	0.014360	0.142606	0.033269	0.002186	0.001414	0.088378	0.000370	0.008208	0.004383	0.001246	0.012463
20-Aug-2026	15.090594	8.030740	12.266500	2.048480	28.488398	1.050640	0.014334	0.142346	0.033219	0.002182	0.001414	0.088325	0.000369	0.008197	0.004375	0.001244	0.012443
21-Aug-2026	15.180204	8.133860	12.458800	2.064450	28.811654	1.069690	0.014513	0.144141	0.033304	0.002209	0.001415	0.088400	0.000375	0.008266	0.004437	0.001260	0.012601
22-Aug-2026	14.810073	8.098650	12.394300	2.059920	28.705080	1.062940	0.014436	0.143348	0.033194	0.002200	0.001415	0.088351	0.000373	0.008235	0.004414	0.001254	0.012544
23-Aug-2026	15.490027	8.270510	12.712500	2.089160	29.254624	1.093700	0.014704	0.145983	0.033285	0.002251	0.001418	0.088730	0.000384	0.008343	0.004515	0.001280	0.012804
24-Aug-2026	15.603435	8.747580	13.583400	2.163530	30.752124	1.180540	0.015548	0.154392	0.033887	0.002399	0.001428	0.090205	0.000413	0.008692	0.004803	0.001352	0.013522
25-Aug-2026	15.968739	8.109970	12.419900	2.065220	28.755171	1.064230	0.014403	0.142952	0.032995	0.002204	0.001414	0.088320	0.000374	0.008218	0.004417	0.001256	0.012558
26-Aug-2026	15.107645	8.160940	12.515100	2.074270	28.919711	1.073260	0.014474	0.143642	0.032973	0.002218	0.001415	0.088394	0.000377	0.008246	0.004446	0.001263	0.012633
27-Aug-2026	15.855331	8.214250	12.614300	2.083410	29.090465	1.082790	0.014554	0.144413	0.032973	0.002234	0.001416	0.088484	0.000381	0.008277	0.004477	0.001271	0.012712
28-Aug-2026	15.293373	8.229940	12.644800	2.086830	29.143726	1.085460	0.014566	0.144522	0.032929	0.002238	0.001416	0.088486	0.000382	0.008281	0.004485	0.001273	0.012735
29-Aug-2026	15.089439	8.181920	12.558500	2.080080	28.996024	1.076560	0.014468	0.143535	0.032814	0.002223	0.001415	0.088294	0.000379	0.008239	0.004455	0.001266	0.012662
30-Aug-2026	15.230396	8.623190	13.367600	2.149360	30.383170	1.156860	0.015238	0.151196	0.033329	0.002356	0.001424	0.089445	0.000406	0.008555	0.004720	0.001333	0.013329
31-Aug-2026	14.104384	8.553680	13.243900	2.139940	30.170812	1.143970	0.015092	0.149728	0.033154	0.002333	0.001423	0.089135	0.000402	0.008492	0.004676	0.001322	0.013224
1-Sep-2026	13.167304	8.692740	13.499100	2.161720	30.607735	1.169320	0.015333	0.152121	0.033291	0.002375	0.001425	0.089506	0.000410	0.008590	0.004760	0.001343	0.013433
2-Sep-2026	13.133892	8.642830	13.407400	2.153920	30.450989	1.160250	0.015243	0.151212	0.033196	0.002362	0.001424	0.089427	0.000407	0.008553	0.004730	0.001335	0.013355
3-Sep-2026	12.893484	9.031240	14.119000	2.212680	31.662823	1.231720	0.015947	0.158251	0.033713	0.002481	0.001431	0.090510	0.000431	0.008841	0.004966	0.001394	0.013941
4-Sep-2026	13.005186	8.784490	13.683500	2.174260	30.888474	1.188190	0.015475	0.153537	0.033258	0.002407	0.001424	0.089730	0.000417	0.008627	0.004815	0.001357	0.013566
5-Sep-2026	11.811729	8.600130	13.333700	2.146320	30.313070	1.153220	0.015159	0.150367	0.032995	0.002354	0.001420	0.089305	0.000405	0.008513	0.004704	0.001328	0.013283
6-Sep-2026	11.551037	8.684020	13.489700	2.159220	30.575666	1.168900	0.015300	0.151766	0.033017	0.002384	0.001420	0.089605	0.000410	0.008568	0.004755	0.001341	0.013406
7-Sep-2026	11.558708	8.588180	13.312200	2.144960	30.277631	1.151090	0.015123	0.149962	0.032860	0.002358	0.001418	0.089512	0.000404	0.008498	0.004697	0.001326	0.013257
8-Sep-2026	10.962322	8.572100	13.284400	2.142180	30.226031	1.148320	0.015095	0.149703	0.032835	0.002351	0.001417	0.089349	0.000403	0.008485	0.004687	0.001323	0.013234

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
9-Sep-2026	11.068910	9.158650	14.357100	2.231190	32.057189	1.255940	0.016160	0.160358	0.033667	0.002529	0.001429	0.090953	0.000439	0.008922	0.005044	0.001412	0.014122
10-Sep-2026	10.867263	8.774350	13.659700	2.172560	30.856154	1.186010	0.015454	0.153287	0.033031	0.002413	0.001419	0.089770	0.000416	0.008625	0.004810	0.001354	0.013539
11-Sep-2026	9.855045	8.717610	13.558900	2.163910	30.678854	1.175840	0.015343	0.152177	0.032888	0.002395	0.001417	0.089523	0.000413	0.008577	0.004775	0.001345	0.013451
12-Sep-2026	8.558259	8.730550	13.583400	2.165910	30.719401	1.178320	0.015362	0.152357	0.032867	0.002401	0.001416	0.089588	0.000413	0.008583	0.004783	0.001347	0.013469
13-Sep-2026	8.662373	8.728130	13.582600	2.165490	30.711628	1.178190	0.015349	0.152226	0.032797	0.002400	0.001415	0.089494	0.000414	0.008574	0.004781	0.001346	0.013464
14-Sep-2026	8.580672	9.098490	14.258200	2.221790	31.868261	1.245970	0.016024	0.158972	0.033335	0.002513	0.001423	0.090563	0.000436	0.008853	0.005006	0.001402	0.014025
15-Sep-2026	8.324128	8.933110	13.958500	2.196700	31.351986	1.215980	0.015714	0.155849	0.033020	0.002467	0.001418	0.090181	0.000426	0.008723	0.004905	0.001377	0.013771
16-Sep-2026	8.050066	9.087760	14.242300	2.220080	31.834426	1.244360	0.015995	0.158675	0.033229	0.002511	0.001421	0.090457	0.000436	0.008837	0.004999	0.001401	0.014006
17-Sep-2026	7.723621	9.303410	14.636600	2.252830	32.507769	1.283910	0.016384	0.162569	0.033522	0.002577	0.001425	0.091071	0.000449	0.008997	0.005130	0.001433	0.014332
18-Sep-2026	7.132907	9.195760	14.450300	2.235780	32.168755	1.265320	0.016176	0.160495	0.033228	0.002543	0.001419	0.090450	0.000443	0.008899	0.005064	0.001417	0.014169
19-Sep-2026	7.023215	9.243670	14.532600	2.243470	32.320053	1.273540	0.016267	0.161392	0.033343	0.002559	0.001422	0.090785	0.000445	0.008943	0.005094	0.001424	0.014240
20-Sep-2026	7.079447	9.656800	15.287400	2.306270	33.610249	1.349240	0.017016	0.168883	0.033922	0.002685	0.001430	0.091952	0.000471	0.009251	0.005344	0.001486	0.014865
21-Sep-2026	7.173933	9.462670	14.936300	2.276600	33.003326	1.314030	0.016657	0.165288	0.033583	0.002627	0.001425	0.091319	0.000459	0.009099	0.005226	0.001457	0.014570
22-Sep-2026	7.412119	9.603400	15.196000	2.297850	33.442236	1.340130	0.016909	0.167807	0.033740	0.002670	0.001426	0.091657	0.000468	0.009199	0.005312	0.001478	0.014782
23-Sep-2026	7.329956	9.154090	14.377000	2.229780	32.039997	1.257980	0.016080	0.159486	0.032994	0.002538	0.001416	0.090487	0.000440	0.008856	0.005038	0.001410	0.014096
24-Sep-2026	6.939992	9.170190	14.411600	2.231950	32.089135	1.261470	0.016100	0.159677	0.032945	0.002543	0.001415	0.090424	0.000442	0.008858	0.005048	0.001412	0.014118
25-Sep-2026	7.110527	9.241570	14.541400	2.242880	32.312380	1.274470	0.016229	0.160961	0.033024	0.002565	0.001416	0.090633	0.000446	0.008912	0.005091	0.001423	0.014225
26-Sep-2026	6.356955	9.325510	14.697100	2.255390	32.573494	1.290100	0.016379	0.162471	0.033114	0.002589	0.001416	0.090772	0.000451	0.008971	0.005142	0.001435	0.014353
27-Sep-2026	5.435984	9.322880	14.694500	2.254770	32.564374	1.289920	0.016370	0.162385	0.033062	0.002590	0.001415	0.090738	0.000451	0.008965	0.005140	0.001435	0.014348
28-Sep-2026	4.738222	9.355440	14.757400	2.259540	32.665319	1.296240	0.016424	0.162924	0.033054	0.002599	0.001415	0.090733	0.000453	0.008983	0.005160	0.001440	0.014397
29-Sep-2026	4.605965	9.416120	14.870500	2.268840	32.855135	1.307510	0.016526	0.163921	0.033081	0.002618	0.001415	0.090858	0.000457	0.009023	0.005197	0.001449	0.014486
30-Sep-2026	4.376489	9.498730	15.023700	2.281120	33.111981	1.322930	0.016678	0.165461	0.033186	0.002642	0.001416	0.090982	0.000462	0.009082	0.005247	0.001461	0.014613
1-Oct-2026	2.829228	9.272820	14.611200	2.246390	32.404866	1.281730	0.016265	0.161321	0.032828	0.002577	0.001411	0.090453	0.000448	0.008912	0.005110	0.001427	0.014268
2-Oct-2026	2.722908	9.238560	14.549000	2.241110	32.297575	1.275500	0.016203	0.160698	0.032775	0.002566	0.001410	0.090331	0.000446	0.008886	0.005089	0.001422	0.014216
3-Oct-2026	2.617540	9.206860	14.491100	2.236120	32.197872	1.269760	0.016145	0.160126	0.032724	0.002557	0.001409	0.090321	0.000444	0.008862	0.005070	0.001417	0.014167
4-Oct-2026	2.628304	9.169410	14.423200	2.229990	32.079116	1.263050	0.016079	0.159457	0.032670	0.002546	0.001408	0.090154	0.000442	0.008835	0.005048	0.001411	0.014111
5-Oct-2026	2.668496	9.156030	14.399300	2.227640	32.036028	1.260730	0.016055	0.159227	0.032651	0.002543	0.001407	0.090110	0.000441	0.008825	0.005040	0.001409	0.014090
6-Oct-2026	2.836421	9.133550	14.358500	2.223860	31.964330	1.256780	0.016015	0.158827	0.032611	0.002537	0.001406	0.090100	0.000440	0.008808	0.005027	0.001406	0.014055
7-Oct-2026	2.836151	9.127350	14.348400	2.222470	31.943124	1.255830	0.016005	0.158732	0.032604	0.002534	0.001405	0.089993	0.000440	0.008803	0.005023	0.001405	0.014047
8-Oct-2026	2.585035	9.099420	14.298600	2.217490	31.852876	1.251040	0.015956	0.158247	0.032558	0.002527	0.001404	0.089903	0.000438	0.008782	0.005007	0.001400	0.014004
9-Oct-2026	1.978360	9.060710	14.229800	2.210550	31.727638	1.244360	0.015890	0.157593	0.032512	0.002515	0.001402	0.089723	0.000436	0.008753	0.004984	0.001395	0.013947
10-Oct-2026	1.550075	9.055670	14.221500	2.209450	31.710523	1.243610	0.015881	0.157503	0.032493	0.002514	0.001402	0.089690	0.000436	0.008749	0.004981	0.001394	0.013939
11-Oct-2026	0.995714	9.019910	14.157600	2.203190	31.595452	1.237430	0.015819	0.156886	0.032436	0.002503	0.001400	0.089561	0.000434	0.008722	0.004960	0.001388	0.013884
12-Oct-2026	0.881226	9.009130	14.139000	2.201090	31.559886	1.235660	0.015800	0.156704	0.032419	0.002500	0.001399	0.089493	0.000433	0.008713	0.004954	0.001387	0.013868
13-Oct-2026	0.901390	8.998400	14.120600	2.198960	31.524322	1.233920	0.015782	0.156520	0.032401	0.002497	0.001398	0.089432	0.000432	0.008705	0.004948	0.001385	0.013852
14-Oct-2026	0.900317	8.984300	14.094800	2.196630	31.479519	1.231400	0.015757	0.156276	0.032381	0.002493	0.001398	0.089442	0.000431	0.008695	0.004939	0.001383	0.013831
15-Oct-2026	0.880627	8.970320	14.070100	2.194080	31.434110	1.229030	0.015732	0.156030	0.032357	0.002490	0.001397	0.089363	0.000431	0.008684	0.004931	0.001381	0.013809
16-Oct-2026	0.883087	8.961540	14.054500	2.192480	31.405598	1.227520	0.015718	0.155886	0.032345	0.002487	0.001397	0.089356	0.000430	0.008678	0.004926	0.001380	0.013796
17-Oct-2026	0.876186	9.047860	14.188100	2.214650	31.712435	1.239060	0.015868	0.157382	0.032709	0.002511	0.001412	0.090253	0.000434	0.008764	0.004973	0.001393	0.013929
18-Oct-2026	0.875500	9.099310	14.265600	2.227780	31.894975	1.245540	0.015960	0.158296	0.032902	0.002524	0.001421	0.090806	0.000436	0.008816	0.005001	0.001401	0.014010
19-Oct-2026	0.873201	9.163400	14.369000	2.242530	32.115748	1.254820	0.016072	0.159399	0.033100	0.002542	0.001429	0.091383	0.000440	0.008875	0.005037	0.001411	0.014107
20-Oct-2026	0.872401	9.224320	14.464900	2.257330	32.328812	1.263230	0.016178	0.160458	0.033309	0.002559	0.001438	0.091981	0.000443	0.008934	0.005070	0.001420	0.014201
21-Oct-2026	0.869229	9.256100	14.513400	2.265540	32.441975	1.267340	0.016235	0.161016	0.033442	0.002568	0.001444	0.092327	0.000444	0.008966	0.005087	0.001425	0.014250
22-Oct-2026	0.870690	9.258960	14.517400	2.266360	32.452494	1.267660	0.016240	0.161067	0.033458	0.002568	0.001445	0.092365	0.000444	0.008969	0.005089	0.001425	0.014255
23-Oct-2026	0.869256	9.284790	14.557700	2.272750	32.543305	1.271160	0.016285	0.161518	0.033555	0.002576	0.001449	0.092626	0.000445	0.008995	0.005103	0.001429	0.014295
24-Oct-2026	0.869664	9.316270	14.607300	2.280380	32.653331	1.275510	0.016340	0.162065	0.033666	0.002584	0.001454	0.092934	0.000447	0.009025	0.005120	0.001434	0.014343
25-Oct-2026	0.868486	9.336060	14.638300	2.285260	32.722843	1.278210	0.016375	0.162410	0.033738	0.002590	0.001457	0.093134	0.000448	0.009044	0.005131	0.001437	0.014374
26-Oct-2026	0.864524	9.367500	14.687100	2.293330	32.834580	1.282450	0.016430	0.162960	0.033867	0.002599	0.001462	0.093474	0.000449	0.009076	0.005148	0.001442	0.014423
27-Oct-2026	0.862741	9.411720	14.755600	2.304210	32.989802	1.288340	0.016508	0.163731	0.034029	0.002610	0.001469	0.093915	0.000451	0.009119	0.005173	0.001449	0.014491
28-Oct-2026	0.861917	9.453100	14.819800	2.314560	33.135749	1.293890	0.016581	0.164451	0.034185	0.002622	0.001476	0.094348	0.000453	0.009159	0.005195	0.001455	0.014555
29-Oct-2026	0.861828	9.497340	14.888700	2.325550	33.291473	1.299860	0.016658	0.165220	0.034349	0.002634	0.001483	0.094805	0.000456	0.009203	0.005219	0.001462	0.014623
30-Oct-2026	0.859575	9.539640	14.954200	2.336180	33.440870	1.305510	0.016733	0.165957	0.034510	0.002646	0.001490	0.095251	0.000458	0.009245	0.005243	0.001469	0.014688

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Oct-2026	0.854385	9.576830	15.013200	2.344980	33.569972	1.310740	0.016798	0.166602	0.034636	0.002656	0.001496	0.095607	0.000459	0.009280	0.005263	0.001474	0.014745
1-Nov-2026	0.851214	9.599920	15.050400	2.350310	33.649577	1.314080	0.016838	0.167001	0.034708	0.002663	0.001499	0.095814	0.000461	0.009301	0.005276	0.001478	0.014780
2-Nov-2026	0.848617	9.637630	15.109300	2.359580	33.781913	1.319210	0.016904	0.167656	0.034845	0.002673	0.001505	0.096198	0.000462	0.009338	0.005297	0.001484	0.014838
3-Nov-2026	0.844483	9.672520	15.163800	2.368170	33.904407	1.323960	0.016965	0.168263	0.034972	0.002683	0.001510	0.096555	0.000464	0.009372	0.005316	0.001489	0.014892
4-Nov-2026	0.836147	9.706650	15.217400	2.376490	34.023891	1.328650	0.017025	0.168856	0.035094	0.002693	0.001515	0.096895	0.000466	0.009405	0.005335	0.001494	0.014944
5-Nov-2026	0.833650	9.715500	15.233100	2.378170	34.052908	1.330180	0.017039	0.168995	0.035100	0.002696	0.001516	0.096961	0.000466	0.009411	0.005340	0.001496	0.014957
6-Nov-2026	0.830860	9.740310	15.271800	2.384290	34.140060	1.333520	0.017084	0.169434	0.035192	0.002703	0.001520	0.097198	0.000467	0.009436	0.005353	0.001500	0.014995
7-Nov-2026	0.829372	9.774600	15.325700	2.392630	34.260027	1.338260	0.017144	0.170029	0.035312	0.002712	0.001525	0.097538	0.000469	0.009469	0.005372	0.001505	0.015048
8-Nov-2026	0.829640	9.808210	15.378600	2.400810	34.377636	1.342890	0.017202	0.170613	0.035432	0.002722	0.001530	0.097870	0.000471	0.009501	0.005391	0.001510	0.015100
9-Nov-2026	0.829078	9.787680	15.346600	2.395710	34.305371	1.340130	0.017166	0.170248	0.035346	0.002717	0.001527	0.097677	0.000470	0.009480	0.005380	0.001507	0.015068
10-Nov-2026	0.825175	9.816040	15.391400	2.402560	34.404394	1.344060	0.017216	0.170742	0.035447	0.002724	0.001531	0.097948	0.000471	0.009508	0.005395	0.001511	0.015111
11-Nov-2026	0.820204	9.848670	15.442600	2.410550	34.518774	1.348530	0.017273	0.171308	0.035563	0.002734	0.001537	0.098495	0.000473	0.009539	0.005413	0.001516	0.015161
12-Nov-2026	0.818231	9.893630	15.511500	2.422040	34.678355	1.354450	0.017351	0.172083	0.035729	0.002747	0.001544	0.098792	0.000475	0.009584	0.005438	0.001523	0.015230
13-Nov-2026	0.817295	9.936500	15.574900	2.433730	34.833541	1.359750	0.017425	0.172812	0.035895	0.002760	0.001552	0.099381	0.000477	0.009628	0.005461	0.001529	0.015295
14-Nov-2026	0.816483	9.962210	15.615600	2.439910	34.923188	1.363330	0.017470	0.173261	0.035986	0.002767	0.001556	0.099627	0.000478	0.009653	0.005475	0.001533	0.015334
15-Nov-2026	0.816121	9.996970	15.671000	2.448130	35.043833	1.368230	0.017531	0.173867	0.036106	0.002777	0.001561	0.099945	0.000480	0.009686	0.005494	0.001539	0.015388
16-Nov-2026	0.815849	10.050600	15.755800	2.461040	35.230911	1.375690	0.017626	0.174803	0.036297	0.002791	0.001569	0.100443	0.000482	0.009737	0.005524	0.001547	0.015471
17-Nov-2026	0.815875	10.110700	15.850400	2.475670	35.441227	1.383960	0.017731	0.175850	0.036513	0.002808	0.001578	0.101037	0.000485	0.009795	0.005557	0.001556	0.015563
18-Nov-2026	0.814111	10.174000	15.949500	2.491140	35.662993	1.392610	0.017842	0.176949	0.036741	0.002825	0.001588	0.101669	0.000488	0.009856	0.005591	0.001566	0.015661
19-Nov-2026	0.812655	10.239700	16.052500	2.507260	35.893428	1.401600	0.017957	0.178093	0.036980	0.002844	0.001598	0.102322	0.000491	0.009920	0.005628	0.001576	0.015762
20-Nov-2026	0.814124	10.314000	16.168700	2.525580	36.154396	1.411720	0.018088	0.179385	0.037250	0.002864	0.001610	0.103080	0.000495	0.009992	0.005668	0.001588	0.015876
21-Nov-2026	0.813623	10.394000	16.293400	2.545350	36.435569	1.422570	0.018228	0.180773	0.037541	0.002887	0.001623	0.103904	0.000499	0.010070	0.005712	0.001600	0.015999
22-Nov-2026	0.811558	10.459700	16.395900	2.561590	36.666499	1.431480	0.018343	0.181914	0.037781	0.002905	0.001633	0.104580	0.000502	0.010134	0.005748	0.001610	0.016100
23-Nov-2026	0.810656	10.506100	16.469200	2.572790	36.828481	1.437930	0.018424	0.182725	0.037947	0.002918	0.001640	0.105019	0.000504	0.010179	0.005774	0.001617	0.016172
24-Nov-2026	0.810336	10.570100	16.569700	2.588420	37.052653	1.446700	0.018537	0.183839	0.038178	0.002936	0.001650	0.105653	0.000507	0.010241	0.005809	0.001627	0.016271
25-Nov-2026	0.810516	10.634200	16.670000	2.604150	37.277487	1.455460	0.018649	0.184953	0.038410	0.002953	0.001660	0.106299	0.000510	0.010303	0.005844	0.001637	0.016369
26-Nov-2026	0.810465	10.664400	16.717400	2.611520	37.383246	1.459600	0.018702	0.185478	0.038518	0.002962	0.001665	0.106598	0.000512	0.010332	0.005861	0.001642	0.016416
27-Nov-2026	0.810840	10.692700	16.762200	2.618350	37.482037	1.463540	0.018752	0.185972	0.038619	0.002970	0.001669	0.106867	0.000513	0.010360	0.005876	0.001646	0.016459
28-Nov-2026	0.811179	10.729200	16.819500	2.627270	37.609910	1.468540	0.018816	0.186607	0.038751	0.002980	0.001675	0.107230	0.000515	0.010395	0.005897	0.001652	0.016516
29-Nov-2026	0.810688	10.774900	16.891200	2.638430	37.769980	1.474810	0.018896	0.187402	0.038915	0.002992	0.001682	0.107683	0.000517	0.010439	0.005922	0.001659	0.016586
30-Nov-2026	0.809336	10.803800	16.936700	2.645410	37.870887	1.478800	0.018947	0.187904	0.039018	0.003000	0.001686	0.107962	0.000518	0.010467	0.005938	0.001663	0.016630
1-Dec-2026	0.810105	10.836400	16.987800	2.653400	37.985192	1.483250	0.019004	0.188471	0.039136	0.003009	0.001691	0.108288	0.000520	0.010498	0.005955	0.001668	0.016680
2-Dec-2026	0.810217	10.888200	17.068800	2.666130	38.166959	1.490310	0.019094	0.189371	0.039323	0.003024	0.001700	0.108813	0.000522	0.010549	0.005984	0.001676	0.016760
3-Dec-2026	0.809405	10.909200	17.101900	2.671230	38.240398	1.493220	0.019131	0.189737	0.039398	0.003030	0.001703	0.109017	0.000523	0.010569	0.005995	0.001679	0.016793
4-Dec-2026	0.808956	10.939500	17.149600	2.678580	38.346324	1.497400	0.019184	0.190265	0.039507	0.003038	0.001707	0.109311	0.000525	0.010598	0.006012	0.001684	0.016839
5-Dec-2026	0.809219	10.966200	17.191600	2.685110	38.439884	1.501070	0.019231	0.190730	0.039603	0.003045	0.001712	0.109576	0.000526	0.010624	0.006027	0.001688	0.016880
6-Dec-2026	0.809222	11.013700	17.266100	2.696730	38.606343	1.507580	0.019315	0.191557	0.039775	0.003059	0.001719	0.110049	0.000528	0.010670	0.006053	0.001695	0.016954
7-Dec-2026	0.808665	11.049100	17.321600	2.705370	38.730316	1.512430	0.019377	0.192172	0.039902	0.003068	0.001724	0.110400	0.000530	0.010704	0.006072	0.001701	0.017008
8-Dec-2026	0.808566	11.048200	17.320400	2.705100	38.726957	1.512330	0.019375	0.192157	0.039898	0.003068	0.001724	0.110384	0.000530	0.010703	0.006072	0.001701	0.017007
9-Dec-2026	0.808444	11.082100	17.373500	2.713380	38.845703	1.516970	0.019435	0.192746	0.040020	0.003077	0.001730	0.110721	0.000532	0.010736	0.006091	0.001706	0.017059
10-Dec-2026	0.808342	11.010500	17.261400	2.695850	38.594729	1.507180	0.019309	0.191502	0.039762	0.003058	0.001718	0.110004	0.000528	0.010667	0.006051	0.001695	0.016949
11-Dec-2026	0.808218	11.059200	17.337800	2.707740	38.765296	1.513860	0.019395	0.192349	0.039937	0.003071	0.001726	0.110487	0.000531	0.010714	0.006078	0.001702	0.017024
12-Dec-2026	0.807893	11.117500	17.429300	2.722000	38.969594	1.521860	0.019497	0.193363	0.040148	0.003087	0.001735	0.111067	0.000533	0.010770	0.006110	0.001711	0.017113
13-Dec-2026	0.807856	11.162700	17.500100	2.733050	39.127962	1.528040	0.019576	0.194149	0.040311	0.003100	0.001742	0.111517	0.000536	0.010814	0.006135	0.001718	0.017183
14-Dec-2026	0.807377	11.203000	17.563300	2.742920	39.269236	1.533560	0.019647	0.194850	0.040456	0.003111	0.001748	0.111920	0.000537	0.010853	0.006157	0.001725	0.017245
15-Dec-2026	0.806823	11.246500	17.631600	2.753580	39.421753	1.539520	0.019723	0.195607	0.040613	0.003123	0.001755	0.112355	0.000540	0.010895	0.006181	0.001731	0.017312
16-Dec-2026	0.806888	11.292700	17.703900	2.764910	39.583771	1.545830	0.019804	0.196410	0.040780	0.003136	0.001762	0.112821	0.000542	0.010940	0.006206	0.001738	0.017383
17-Dec-2026	0.806647	11.336600	17.772600	2.775680	39.737740	1.551820	0.019881	0.197172	0.040939	0.003148	0.001769	0.113262	0.000544	0.010982	0.006230	0.001745	0.017451
18-Dec-2026	0.806269	11.379500	17.839800	2.786180	39.888101	1.557700	0.019956	0.197919	0.041093	0.003160	0.001776	0.113691	0.000546	0.011024	0.006254	0.001752	0.017517
19-Dec-2026	0.806294	11.426400	17.913400	2.797690	40.052608	1.564120	0.020039	0.198735	0.041263	0.003173	0.001783	0.114163	0.000548	0.011069	0.006280	0.001759	0.017589
20-Dec-2026	0.805861	11.405000	17.879800	2.792460	39.977635	1.561180	0.020001	0.198362	0.041186	0.003167	0.001780	0.113950	0.000547	0.011049	0.006268	0.001756	0.017556
21-Dec-2026	0.805317	11.455600	17.959100	2.804840	40.154964	1.568110	0.020090	0.199242	0.041368	0.003181	0.001788	0.114456	0.000550	0.011098	0.006296	0.001763	0.017634

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
22-Dec-2026	0.805300	11.502800	18.033000	2.816420	40.320509	1.574560	0.020172	0.200062	0.041539	0.003194	0.001795	0.114931	0.000552	0.011143	0.006322	0.001771	0.017706
23-Dec-2026	0.805014	11.548200	18.104200	2.827530	40.479624	1.580770	0.020252	0.200852	0.041702	0.003207	0.001802	0.115384	0.000554	0.011187	0.006347	0.001778	0.017776
24-Dec-2026	0.804701	11.597100	18.180900	2.839500	40.651020	1.587480	0.020338	0.201703	0.041879	0.003221	0.001810	0.115872	0.000556	0.011235	0.006374	0.001785	0.017852
25-Dec-2026	0.804697	11.646900	18.258900	2.851700	40.825610	1.594280	0.020425	0.202568	0.042059	0.003234	0.001818	0.116371	0.000559	0.011283	0.006401	0.001793	0.017928
26-Dec-2026	0.804349	11.695900	18.335800	2.863690	40.997338	1.600990	0.020511	0.203420	0.042235	0.003248	0.001825	0.116859	0.000561	0.011330	0.006428	0.001800	0.018004
27-Dec-2026	0.804025	11.735000	18.397100	2.873250	41.134339	1.606350	0.020580	0.204100	0.042376	0.003259	0.001831	0.117249	0.000563	0.011368	0.006449	0.001806	0.018064
28-Dec-2026	0.804131	11.766300	18.446100	2.880930	41.244121	1.610620	0.020634	0.204644	0.042489	0.003268	0.001836	0.117564	0.000564	0.011399	0.006467	0.001811	0.018112
29-Dec-2026	0.803732	11.835400	18.554400	2.897860	41.486381	1.620080	0.020756	0.205846	0.042739	0.003287	0.001847	0.118256	0.000568	0.011466	0.006505	0.001822	0.018218
30-Dec-2026	0.803469	11.904100	18.662200	2.914670	41.727149	1.629490	0.020876	0.207041	0.042987	0.003306	0.001858	0.118942	0.000571	0.011532	0.006542	0.001832	0.018324
31-Dec-2026	0.803523	11.964200	18.756400	2.929400	41.937877	1.637720	0.020982	0.208087	0.043204	0.003323	0.001867	0.119543	0.000574	0.011590	0.006575	0.001842	0.018417
1-Jan-2027	0.803221	12.047000	18.886200	2.949670	42.228100	1.649050	0.021127	0.209527	0.043503	0.003346	0.001880	0.120371	0.000578	0.011671	0.006621	0.001854	0.018544
2-Jan-2027	0.803017	12.135200	19.024500	2.971260	42.537243	1.661130	0.021281	0.211060	0.043821	0.003370	0.001894	0.121251	0.000582	0.011756	0.006669	0.001868	0.018680
3-Jan-2027	0.802912	12.134100	19.022700	2.970980	42.533343	1.660970	0.021279	0.211040	0.043817	0.003370	0.001894	0.121241	0.000582	0.011755	0.006669	0.001868	0.018678
4-Jan-2027	0.802692	12.168600	19.076700	2.979430	42.654287	1.665690	0.021340	0.211640	0.043941	0.003379	0.001899	0.121586	0.000584	0.011788	0.006688	0.001873	0.018731
5-Jan-2027	0.802471	12.206300	19.136000	2.988660	42.786433	1.670870	0.021406	0.212297	0.044077	0.003390	0.001905	0.121962	0.000586	0.011825	0.006708	0.001879	0.018789
6-Jan-2027	0.802520	12.254500	19.211600	3.000470	42.955422	1.677470	0.021491	0.213135	0.044251	0.003403	0.001912	0.122444	0.000588	0.011872	0.006735	0.001886	0.018863
7-Jan-2027	0.802445	12.290900	19.268600	3.009400	43.083087	1.682440	0.021554	0.213768	0.044383	0.003413	0.001918	0.122810	0.000590	0.011907	0.006755	0.001892	0.018919
8-Jan-2027	0.802115	12.331200	19.331700	3.019250	43.224278	1.687960	0.021625	0.214469	0.044528	0.003425	0.001924	0.123211	0.000592	0.011946	0.006777	0.001898	0.018981
9-Jan-2027	0.801862	12.386100	19.417700	3.032690	43.416709	1.695460	0.021721	0.215423	0.044726	0.003440	0.001933	0.123760	0.000594	0.011999	0.006807	0.001907	0.019066
10-Jan-2027	0.801807	12.421200	19.472700	3.041320	43.539892	1.700260	0.021783	0.216033	0.044853	0.003450	0.001939	0.124115	0.000596	0.012033	0.006827	0.001912	0.019120
11-Jan-2027	0.801556	12.453900	19.524000	3.049300	43.654406	1.704750	0.021840	0.216602	0.044971	0.003459	0.001944	0.124440	0.000597	0.012065	0.006845	0.001917	0.019170
12-Jan-2027	0.801350	12.345500	19.353800	3.022830	43.274727	1.689860	0.021650	0.214715	0.044580	0.003429	0.001927	0.123368	0.000592	0.011960	0.006785	0.001900	0.019003
13-Jan-2027	0.801346	12.388600	19.421600	3.033360	43.425711	1.695790	0.021726	0.215466	0.044735	0.003441	0.001933	0.123794	0.000594	0.012002	0.006809	0.001907	0.019070
14-Jan-2027	0.801115	12.459800	19.532900	3.050840	43.675480	1.705500	0.021850	0.216702	0.044992	0.003460	0.001945	0.124512	0.000598	0.012071	0.006848	0.001918	0.019179
15-Jan-2027	0.800948	12.503600	19.601400	3.061630	43.829282	1.711470	0.021927	0.217464	0.045152	0.003473	0.001952	0.124958	0.000600	0.012113	0.006872	0.001925	0.019246
16-Jan-2027	0.800556	12.537300	19.654300	3.069900	43.947486	1.716090	0.021986	0.218051	0.045273	0.003482	0.001957	0.125297	0.000601	0.012146	0.006890	0.001930	0.019298
17-Jan-2027	0.800418	12.585000	19.729500	3.081450	44.114156	1.722680	0.022070	0.218882	0.045444	0.003495	0.001964	0.125756	0.000604	0.012192	0.006917	0.001937	0.019372
18-Jan-2027	0.800214	12.676600	19.873000	3.103850	44.435125	1.735220	0.022231	0.220474	0.045775	0.003521	0.001978	0.126669	0.000608	0.012281	0.006967	0.001951	0.019513
19-Jan-2027	0.800059	12.778200	20.032400	3.128730	44.791276	1.749130	0.022409	0.222242	0.046142	0.003549	0.001994	0.127684	0.000613	0.012379	0.007023	0.001967	0.019669
20-Jan-2027	0.800017	12.881500	20.194400	3.154020	45.153360	1.763270	0.022590	0.224039	0.046515	0.003577	0.002010	0.128716	0.000618	0.012479	0.007080	0.001983	0.019828
21-Jan-2027	0.799659	13.012000	20.399200	3.185870	45.610377	1.781180	0.022819	0.226309	0.046984	0.003614	0.002031	0.130007	0.000624	0.012605	0.007151	0.002003	0.020029
22-Jan-2027	0.799348	13.165300	20.639400	3.223430	46.147839	1.802150	0.023088	0.228974	0.047538	0.003656	0.002055	0.131542	0.000632	0.012754	0.007235	0.002027	0.020265
23-Jan-2027	0.799181	13.289200	20.833500	3.253820	46.582363	1.819080	0.023305	0.231129	0.047986	0.003691	0.002074	0.132788	0.000638	0.012874	0.007304	0.002046	0.020456
24-Jan-2027	0.799031	13.374000	20.966300	3.274600	46.879681	1.830680	0.023454	0.232603	0.048292	0.003714	0.002087	0.133638	0.000642	0.012956	0.007350	0.002059	0.020586
25-Jan-2027	0.798939	13.502300	21.167600	3.306020	47.329433	1.848250	0.023679	0.234836	0.048756	0.003750	0.002107	0.134920	0.000648	0.013080	0.007421	0.002078	0.020784
26-Jan-2027	0.798832	13.594500	21.312100	3.328610	47.652682	1.860870	0.023840	0.236439	0.049089	0.003776	0.002122	0.135842	0.000652	0.013170	0.007471	0.002093	0.020926
27-Jan-2027	0.798760	13.668700	21.428400	3.346770	47.912743	1.871030	0.023970	0.237729	0.049356	0.003796	0.002133	0.136584	0.000656	0.013242	0.007512	0.002104	0.021040
28-Jan-2027	0.798694	13.741800	21.543000	3.364690	48.169068	1.881030	0.024099	0.239001	0.049621	0.003816	0.002145	0.137316	0.000659	0.013312	0.007552	0.002115	0.021153
29-Jan-2027	0.798617	13.801000	21.635800	3.379180	48.376560	1.889130	0.024202	0.240030	0.049834	0.003833	0.002154	0.137908	0.000662	0.013370	0.007585	0.002124	0.021244
30-Jan-2027	0.798563	13.844300	21.703700	3.389790	48.528372	1.895060	0.024278	0.240783	0.049991	0.003845	0.002161	0.138341	0.000664	0.013412	0.007609	0.002131	0.021310
31-Jan-2027	0.798518	13.879100	21.758200	3.398320	48.650394	1.899820	0.024339	0.241389	0.050116	0.003855	0.002166	0.138690	0.000666	0.013446	0.007628	0.002136	0.021364
1-Feb-2027	0.798477	13.919900	21.822100	3.408300	48.793370	1.905400	0.024411	0.242097	0.050263	0.003866	0.002172	0.139098	0.000668	0.013485	0.007650	0.002143	0.021427
2-Feb-2027	0.798443	13.965200	21.893200	3.419400	48.952194	1.911600	0.024490	0.242886	0.050427	0.003879	0.002180	0.139552	0.000670	0.013529	0.007675	0.002150	0.021496
3-Feb-2027	0.798412	14.004500	21.954700	3.429020	49.089941	1.916980	0.024559	0.243568	0.050569	0.003889	0.002186	0.139944	0.000672	0.013567	0.007697	0.002156	0.021557
4-Feb-2027	0.798393	14.051400	22.028300	3.440510	49.254366	1.923400	0.024642	0.244385	0.050738	0.003903	0.002193	0.140413	0.000674	0.013612	0.007722	0.002163	0.021629
5-Feb-2027	0.798371	14.095600	22.097600	3.451320	49.409249	1.929450	0.024719	0.245153	0.050897	0.003915	0.002200	0.140854	0.000676	0.013655	0.007747	0.002170	0.021697
6-Feb-2027	0.798335	13.980800	21.917600	3.423210	49.006836	1.913740	0.024518	0.243156	0.050483	0.003883	0.002182	0.139708	0.000671	0.013544	0.007684	0.002152	0.021520
7-Feb-2027	0.798321	14.007700	21.959800	3.429800	49.101143	1.917420	0.024565	0.243624	0.050580	0.003890	0.002186	0.139976	0.000672	0.013570	0.007698	0.002156	0.021562
8-Feb-2027	0.798298	14.045700	22.019300	3.439080	49.234244	1.922620	0.024631	0.244284	0.050717	0.003901	0.002192	0.140355	0.000674	0.013607	0.007719	0.002162	0.021620
9-Feb-2027	0.798275	14.091900	22.091800	3.450400	49.396222	1.928950	0.024712	0.245088	0.050884	0.003914	0.002199	0.140816	0.000676	0.013652	0.007745	0.002169	0.021691
10-Feb-2027	0.798248	14.138300	22.164600	3.461760	49.558863	1.935310	0.024794	0.245896	0.051051	0.003927	0.002207	0.141279	0.000678	0.013697	0.007770	0.002176	0.021763
11-Feb-2027	0.798237	14.195000	22.253500	3.475630	49.757559	1.943070	0.024893	0.246882	0.051256	0.003942	0.002215	0.141845	0.000681	0.013751	0.007801	0.002185	0.021850

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
12-Feb-2027	0.798228	14.144900	22.174900	3.463340	49.581849	1.936210	0.024805	0.246010	0.051074	0.003928	0.002207	0.141342	0.000679	0.013703	0.007774	0.002177	0.021773
13-Feb-2027	0.798217	14.208700	22.275100	3.478980	49.805564	1.944960	0.024917	0.247121	0.051305	0.003946	0.002217	0.141980	0.000682	0.013765	0.007809	0.002187	0.021871
14-Feb-2027	0.798207	14.269800	22.370800	3.493920	50.019653	1.953320	0.025024	0.248182	0.051525	0.003963	0.002227	0.142590	0.000685	0.013824	0.007842	0.002197	0.021965
15-Feb-2027	0.798196	14.332900	22.469700	3.509360	50.240796	1.961950	0.025135	0.249279	0.051753	0.003981	0.002237	0.143220	0.000688	0.013885	0.007877	0.002206	0.022062
16-Feb-2027	0.798187	14.395100	22.567200	3.524600	50.458868	1.970470	0.025244	0.250362	0.051977	0.003998	0.002247	0.143841	0.000691	0.013945	0.007911	0.002216	0.022158
17-Feb-2027	0.798181	14.456500	22.663500	3.539620	50.674036	1.978880	0.025352	0.251429	0.052199	0.004015	0.002256	0.144454	0.000694	0.014005	0.007945	0.002225	0.022253
18-Feb-2027	0.798175	14.518600	22.760900	3.554820	50.891693	1.987380	0.025461	0.252509	0.052423	0.004032	0.002266	0.145074	0.000696	0.014065	0.007979	0.002235	0.022348
19-Feb-2027	0.798165	14.581500	22.859500	3.570220	51.112171	1.995990	0.025571	0.253603	0.052650	0.004050	0.002276	0.145702	0.000700	0.014126	0.008014	0.002244	0.022445
20-Feb-2027	0.798158	14.646300	22.961200	3.586100	51.339371	2.004880	0.025685	0.254732	0.052884	0.004068	0.002286	0.146350	0.000703	0.014189	0.008049	0.002254	0.022545
21-Feb-2027	0.798151	14.712500	23.064900	3.602300	51.571384	2.013930	0.025801	0.255882	0.053123	0.004086	0.002296	0.147011	0.000706	0.014253	0.008086	0.002265	0.022647
22-Feb-2027	0.798139	14.778000	23.167500	3.618320	51.800908	2.022890	0.025916	0.257021	0.053359	0.004104	0.002306	0.147664	0.000709	0.014316	0.008122	0.002275	0.022747
23-Feb-2027	0.798132	14.839800	23.264500	3.633450	52.017528	2.031360	0.026024	0.258096	0.053583	0.004121	0.002316	0.148282	0.000712	0.014376	0.008156	0.002284	0.022843
24-Feb-2027	0.798122	14.902200	23.362300	3.648720	52.236222	2.039900	0.026133	0.259181	0.053808	0.004139	0.002326	0.148905	0.000715	0.014436	0.008190	0.002294	0.022939
25-Feb-2027	0.798116	14.968200	23.465900	3.664890	52.467612	2.048940	0.026249	0.260330	0.054046	0.004157	0.002336	0.149564	0.000718	0.014500	0.008226	0.002304	0.023040
26-Feb-2027	0.798104	15.009100	23.529900	3.674890	52.610920	2.054530	0.026321	0.261040	0.054194	0.004168	0.002342	0.149972	0.000720	0.014540	0.008249	0.002310	0.023103
27-Feb-2027	0.798096	15.086800	23.651700	3.693920	52.883302	2.065170	0.026457	0.262392	0.054474	0.004190	0.002354	0.150749	0.000724	0.014615	0.008292	0.002322	0.023223
28-Feb-2027	0.798087	15.163600	23.772200	3.712730	53.152531	2.075700	0.026592	0.263728	0.054752	0.004211	0.002366	0.151516	0.000727	0.014690	0.008334	0.002334	0.023341
1-Mar-2027	0.798080	15.225400	23.869000	3.727850	53.369110	2.084150	0.026700	0.264802	0.054975	0.004229	0.002376	0.152133	0.000730	0.014749	0.008368	0.002344	0.023436
2-Mar-2027	0.798074	15.279700	23.954200	3.741140	53.559425	2.091580	0.026796	0.265747	0.055171	0.004244	0.002385	0.152676	0.000733	0.014802	0.008398	0.002352	0.023520
3-Mar-2027	0.798067	15.353500	24.069900	3.759220	53.818157	2.101690	0.026925	0.267031	0.055437	0.004264	0.002396	0.153413	0.000737	0.014874	0.008438	0.002363	0.023633
4-Mar-2027	0.798060	15.438200	24.202700	3.779960	54.115061	2.113290	0.027074	0.268504	0.055743	0.004288	0.002409	0.154259	0.000741	0.014956	0.008485	0.002376	0.023764
5-Mar-2027	0.798053	15.536100	24.356200	3.803930	54.458225	2.126690	0.027245	0.270207	0.056097	0.004315	0.002425	0.155237	0.000745	0.015050	0.008538	0.002391	0.023914
6-Mar-2027	0.798048	15.633800	24.509400	3.827840	54.800644	2.140060	0.027417	0.271906	0.056449	0.004342	0.002440	0.156213	0.000750	0.015145	0.008592	0.002406	0.024065
7-Mar-2027	0.798044	15.727600	24.656300	3.850790	55.129370	2.152900	0.027581	0.273537	0.056788	0.004368	0.002454	0.157149	0.000754	0.015236	0.008644	0.002421	0.024209
8-Mar-2027	0.798042	15.819700	24.800800	3.873350	55.452246	2.165510	0.027743	0.275139	0.057120	0.004394	0.002469	0.158070	0.000759	0.015325	0.008694	0.002435	0.024351
9-Mar-2027	0.798041	15.905800	24.935800	3.894430	55.754045	2.177300	0.027894	0.276637	0.057431	0.004418	0.002482	0.158930	0.000763	0.015409	0.008742	0.002448	0.024483
10-Mar-2027	0.798039	15.991900	25.070700	3.915500	56.055803	2.189080	0.028044	0.278133	0.057742	0.004441	0.002496	0.159790	0.000767	0.015492	0.008789	0.002462	0.024616
11-Mar-2027	0.798036	16.082100	25.212200	3.937590	56.371999	2.201430	0.028203	0.279703	0.058068	0.004466	0.002510	0.160691	0.000771	0.015579	0.008839	0.002475	0.024755
12-Mar-2027	0.798036	16.178500	25.363200	3.961180	56.709854	2.214620	0.028372	0.281379	0.058415	0.004493	0.002525	0.161654	0.000776	0.015673	0.008892	0.002490	0.024903
13-Mar-2027	0.798038	16.282200	25.526000	3.986590	57.073431	2.228830	0.028554	0.283184	0.058790	0.004522	0.002541	0.162691	0.000781	0.015773	0.008949	0.002506	0.025063
14-Mar-2027	0.798039	16.388900	25.693100	4.012700	57.447382	2.243430	0.028741	0.285038	0.059175	0.004552	0.002558	0.163756	0.000786	0.015876	0.009007	0.002523	0.025227
15-Mar-2027	0.798039	16.496200	25.861400	4.038990	57.823572	2.258120	0.028929	0.286905	0.059563	0.004581	0.002574	0.164829	0.000791	0.015980	0.009066	0.002539	0.025392
16-Mar-2027	0.798038	16.611600	26.042300	4.067240	58.228060	2.273920	0.029131	0.288912	0.059979	0.004614	0.002592	0.165982	0.000797	0.016092	0.009130	0.002557	0.025570
17-Mar-2027	0.798039	16.739100	26.242200	4.098450	58.674950	2.291370	0.029355	0.291129	0.060440	0.004649	0.002612	0.167255	0.000803	0.016216	0.009200	0.002577	0.025766
18-Mar-2027	0.798039	16.867800	26.444000	4.129960	59.126072	2.308990	0.029581	0.293368	0.060904	0.004685	0.002632	0.168541	0.000809	0.016340	0.009270	0.002596	0.025964
19-Mar-2027	0.798041	16.998500	26.648800	4.161950	59.584165	2.326870	0.029810	0.295640	0.061376	0.004721	0.002653	0.169847	0.000815	0.016467	0.009342	0.002617	0.026165
20-Mar-2027	0.798042	17.135100	26.863100	4.195410	60.063043	2.345580	0.030049	0.298017	0.061870	0.004759	0.002674	0.171212	0.000822	0.016599	0.009417	0.002638	0.026376
21-Mar-2027	0.798043	17.278600	27.088000	4.230540	60.566028	2.365220	0.030301	0.300513	0.062388	0.004799	0.002696	0.172646	0.000829	0.016738	0.009496	0.002660	0.026597
22-Mar-2027	0.798044	17.429400	27.324500	4.267470	61.094653	2.385870	0.030565	0.303136	0.062932	0.004841	0.002720	0.174153	0.000836	0.016884	0.009579	0.002683	0.026829
23-Mar-2027	0.798045	17.588900	27.574400	4.306500	61.653650	2.407690	0.030845	0.305909	0.063508	0.004885	0.002745	0.175746	0.000844	0.017039	0.009667	0.002707	0.027074
24-Mar-2027	0.798044	17.755900	27.836300	4.347410	62.239117	2.430560	0.031138	0.308814	0.064111	0.004931	0.002771	0.177415	0.000852	0.017201	0.009758	0.002733	0.027331
25-Mar-2027	0.798045	17.930900	28.110700	4.390260	62.852548	2.454520	0.031445	0.311858	0.064743	0.004980	0.002798	0.179164	0.000860	0.017370	0.009855	0.002760	0.027601
26-Mar-2027	0.798045	18.113800	28.397400	4.435030	63.493612	2.479550	0.031766	0.315039	0.065403	0.005031	0.002827	0.180991	0.000869	0.017547	0.009955	0.002788	0.027882
27-Mar-2027	0.798045	18.304300	28.696000	4.481680	64.161395	2.505630	0.032100	0.318352	0.066091	0.005084	0.002856	0.182894	0.000878	0.017732	0.010060	0.002818	0.028175
28-Mar-2027	0.798045	18.502200	29.006300	4.530130	64.855069	2.532720	0.032447	0.321794	0.066806	0.005139	0.002887	0.184872	0.000888	0.017924	0.010169	0.002848	0.028480
29-Mar-2027	0.798045	18.706800	29.327000	4.580220	65.572226	2.560720	0.032806	0.325352	0.067544	0.005195	0.002919	0.186916	0.000897	0.018122	0.010281	0.002879	0.028795
30-Mar-2027	0.798046	18.919200	29.660000	4.632230	66.316766	2.589800	0.033178	0.329047	0.068311	0.005254	0.002952	0.189038	0.000908	0.018328	0.010398	0.002912	0.029122
31-Mar-2027	0.798047	19.139700	30.005600	4.686210	67.089644	2.619980	0.033565	0.332881	0.069107	0.005316	0.002987	0.191241	0.000918	0.018541	0.010519	0.002946	0.029461
1-Apr-2027	0.798047	19.368400	30.364200	4.742210	67.891316	2.651290	0.033966	0.336858	0.069933	0.005379	0.003023	0.193526	0.000929	0.018763	0.010645	0.002981	0.029813
2-Apr-2027	0.798047	19.601300	30.729300	4.799230	68.707675	2.683170	0.034374	0.340909	0.070774	0.005444	0.003059	0.195853	0.000940	0.018988	0.010773	0.003017	0.030172
3-Apr-2027	0.798047	19.785400	31.017900	4.844310	69.353012	2.708370	0.034697	0.344111	0.071439	0.005495	0.003088	0.197693	0.000949	0.019167	0.010874	0.003046	0.030455
4-Apr-2027	0.798047	19.902800	31.202100	4.873070	69.764594	2.724450	0.034903	0.346154	0.071863	0.005528	0.003106	0.198867	0.000955	0.019281	0.010938	0.003064	0.030636

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Apr-2027	0.798047	19.986200	31.332800	4.893480	70.056892	2.735860	0.035049	0.347604	0.072164	0.005551	0.003119	0.199700	0.000959	0.019361	0.010984	0.003076	0.030764
6-Apr-2027	0.798047	20.048500	31.430500	4.908740	70.275296	2.744390	0.035158	0.348688	0.072389	0.005568	0.003129	0.200322	0.000962	0.019422	0.011019	0.003086	0.030860
7-Apr-2027	0.798047	20.096700	31.505900	4.920520	70.444161	2.750980	0.035243	0.349525	0.072563	0.005581	0.003136	0.200803	0.000964	0.019468	0.011045	0.003093	0.030934
8-Apr-2027	0.798047	20.134800	31.565700	4.929860	70.577759	2.756200	0.035310	0.350188	0.072700	0.005592	0.003142	0.201184	0.000966	0.019505	0.011066	0.003099	0.030993
9-Apr-2027	0.798047	20.165700	31.614100	4.937420	70.686048	2.760430	0.035364	0.350725	0.072812	0.005601	0.003147	0.201493	0.000967	0.019535	0.011083	0.003104	0.031041
10-Apr-2027	0.798047	20.191200	31.654100	4.943670	70.775459	2.763920	0.035409	0.351169	0.072904	0.005608	0.003151	0.201748	0.000969	0.019560	0.011097	0.003108	0.031080
11-Apr-2027	0.798047	20.212800	31.687900	4.948950	70.851138	2.766870	0.035446	0.351544	0.072982	0.005614	0.003154	0.201963	0.000970	0.019581	0.011109	0.003111	0.031113
12-Apr-2027	0.798047	20.231400	31.717100	4.953500	70.916319	2.769420	0.035479	0.351868	0.073049	0.005619	0.003157	0.202149	0.000971	0.019599	0.011119	0.003114	0.031142
13-Apr-2027	0.798047	20.247700	31.742700	4.957500	70.973492	2.771650	0.035508	0.352151	0.073108	0.005623	0.003160	0.202312	0.000971	0.019615	0.011128	0.003117	0.031167
14-Apr-2027	0.798047	20.262100	31.765300	4.961030	71.023985	2.773620	0.035533	0.352402	0.073160	0.005627	0.003162	0.202456	0.000972	0.019629	0.011136	0.003119	0.031189
15-Apr-2027	0.798047	20.275000	31.785400	4.964170	71.069127	2.775390	0.035556	0.352626	0.073207	0.005631	0.003164	0.202585	0.000973	0.019641	0.011143	0.003121	0.031209
16-Apr-2027	0.798047	20.286600	31.803600	4.967010	71.109787	2.776970	0.035576	0.352827	0.073248	0.005634	0.003166	0.202701	0.000973	0.019652	0.011149	0.003123	0.031227
17-Apr-2027	0.798047	20.297100	31.820100	4.969590	71.146630	2.778410	0.035594	0.353011	0.073286	0.005637	0.003167	0.202806	0.000974	0.019662	0.011155	0.003124	0.031243
18-Apr-2027	0.798047	20.306700	31.835200	4.971950	71.180320	2.779730	0.035611	0.353178	0.073321	0.005640	0.003169	0.202902	0.000974	0.019672	0.011160	0.003126	0.031258
19-Apr-2027	0.798047	20.315500	31.849000	4.974100	71.211147	2.780940	0.035627	0.353331	0.073353	0.005642	0.003170	0.202990	0.000975	0.019680	0.011165	0.003127	0.031271
20-Apr-2027	0.798047	20.323600	31.861600	4.976070	71.239485	2.782040	0.035641	0.353471	0.073382	0.005644	0.003172	0.203070	0.000975	0.019688	0.011170	0.003128	0.031284
21-Apr-2027	0.798047	20.330900	31.873200	4.977880	71.265167	2.783050	0.035654	0.353599	0.073409	0.005646	0.003173	0.203144	0.000975	0.019695	0.011174	0.003129	0.031295
22-Apr-2027	0.798047	20.337700	31.883800	4.979540	71.288983	2.783980	0.035666	0.353717	0.073433	0.005648	0.003174	0.203212	0.000976	0.019702	0.011177	0.003131	0.031305
23-Apr-2027	0.798047	20.343900	31.893600	4.981060	71.310723	2.784830	0.035677	0.353825	0.073456	0.005650	0.003175	0.203274	0.000976	0.019708	0.011181	0.003131	0.031315
24-Apr-2027	0.798047	20.349700	31.902600	4.982470	71.331012	2.785610	0.035687	0.353925	0.073476	0.005652	0.003176	0.203331	0.000976	0.019713	0.011184	0.003132	0.031324
25-Apr-2027	0.798047	20.355000	31.910900	4.983760	71.349559	2.786340	0.035696	0.354017	0.073495	0.005653	0.003177	0.203384	0.000976	0.019719	0.011187	0.003133	0.031332
26-Apr-2027	0.798047	20.359900	31.918600	4.984970	71.366777	2.787010	0.035705	0.354103	0.073513	0.005655	0.003177	0.203433	0.000977	0.019723	0.011190	0.003134	0.031340
27-Apr-2027	0.798040	19.191200	30.086400	4.698820	67.270167	2.627040	0.033655	0.333777	0.069293	0.005330	0.002995	0.191755	0.000921	0.018591	0.010547	0.002954	0.029541
28-Apr-2027	0.798040	19.195700	30.093400	4.699910	67.285892	2.627650	0.033663	0.333855	0.069309	0.005331	0.002996	0.191800	0.000921	0.018595	0.010550	0.002955	0.029547
29-Apr-2027	0.798040	19.199900	30.100100	4.700960	67.300704	2.628230	0.033670	0.333929	0.069325	0.005332	0.002996	0.191843	0.000921	0.018600	0.010552	0.002955	0.029554
30-Apr-2027	0.798027	19.203900	30.106400	4.701940	67.314727	2.628780	0.033677	0.333998	0.069339	0.005333	0.002997	0.191883	0.000921	0.018603	0.010554	0.002956	0.029560
1-May-2027	0.797899	19.205700	30.109200	4.702380	67.321034	2.629030	0.033681	0.334030	0.069346	0.005334	0.002997	0.191901	0.000921	0.018605	0.010555	0.002956	0.029563
2-May-2027	0.796979	20.325000	31.863900	4.976420	71.244423	2.782230	0.035643	0.353496	0.073387	0.005645	0.003172	0.203085	0.000975	0.019689	0.011170	0.003129	0.031286
3-May-2027	0.793404	20.150700	31.590700	4.933760	70.633522	2.758380	0.035338	0.350465	0.072758	0.005596	0.003145	0.201343	0.000967	0.019521	0.011075	0.003102	0.031018
4-May-2027	0.788519	19.799800	31.040600	4.847840	69.403506	2.710350	0.034722	0.344362	0.071491	0.005499	0.003090	0.197837	0.000950	0.019181	0.010882	0.003048	0.030477
5-May-2027	0.785228	19.372100	30.370000	4.743110	67.904261	2.651790	0.033972	0.336923	0.069947	0.005380	0.003023	0.193563	0.000929	0.018766	0.010647	0.002982	0.029819
6-May-2027	0.780947	18.916400	29.655600	4.631540	66.306933	2.589420	0.033173	0.328997	0.068301	0.005254	0.002952	0.189010	0.000907	0.018325	0.010396	0.002912	0.029118
7-May-2027	0.776929	18.489100	28.985800	4.526930	64.809180	2.530930	0.032424	0.321567	0.066758	0.005135	0.002885	0.184741	0.000887	0.017911	0.010161	0.002846	0.028460
8-May-2027	0.775058	18.126400	28.417200	4.438120	63.537799	2.481280	0.031788	0.315259	0.065449	0.005034	0.002829	0.181117	0.000870	0.017560	0.009962	0.002790	0.027902
9-May-2027	0.775341	17.828500	27.950000	4.365160	62.493493	2.440490	0.031265	0.310076	0.064373	0.004951	0.002782	0.178139	0.000855	0.017271	0.009798	0.002744	0.027443
10-May-2027	0.776080	17.537200	27.493500	4.293860	61.472504	2.400630	0.030755	0.305011	0.063321	0.004871	0.002737	0.175229	0.000841	0.016989	0.009638	0.002699	0.026995
11-May-2027	0.775400	17.415800	27.303100	4.264130	61.046940	2.384010	0.030542	0.302899	0.062883	0.004837	0.002718	0.174016	0.000835	0.016871	0.009572	0.002681	0.026808
12-May-2027	0.776952	17.163000	26.906800	4.202230	60.160794	2.349400	0.030098	0.298502	0.061970	0.004767	0.002678	0.171490	0.000823	0.016626	0.009433	0.002642	0.026419
13-May-2027	0.781953	16.888800	26.477000	4.135100	59.199675	2.311870	0.029617	0.293734	0.060980	0.004691	0.002636	0.168750	0.000810	0.016361	0.009282	0.002600	0.025997
14-May-2027	0.791453	16.668400	26.131400	4.081120	58.427047	2.281690	0.029231	0.289899	0.060184	0.004629	0.002601	0.166547	0.000800	0.016147	0.009161	0.002566	0.025657
15-May-2027	0.805993	15.495900	24.293200	3.794020	54.317037	2.121200	0.027175	0.269507	0.055950	0.004304	0.002418	0.154829	0.000743	0.015011	0.008516	0.002385	0.023852
16-May-2027	0.814440	15.349500	24.063800	3.758170	53.803846	2.101170	0.026918	0.266961	0.055422	0.004263	0.002395	0.153365	0.000736	0.014869	0.008436	0.002363	0.023627
17-May-2027	0.826324	15.244200	23.898700	3.732380	53.434708	2.086750	0.026733	0.265129	0.055041	0.004234	0.002379	0.152313	0.000731	0.014767	0.008378	0.002346	0.023465
18-May-2027	0.839077	15.180400	23.798700	3.716770	53.211118	2.078020	0.026621	0.264019	0.054811	0.004216	0.002369	0.151676	0.000728	0.014706	0.008343	0.002337	0.023367
19-May-2027	0.834538	15.038200	23.575800	3.681970	52.712738	2.058550	0.026372	0.261546	0.054298	0.004176	0.002347	0.150256	0.000721	0.014568	0.008265	0.002315	0.023148
20-May-2027	0.829759	14.798800	23.200400	3.623350	51.873559	2.025770	0.025952	0.257381	0.053434	0.004110	0.002309	0.147864	0.000710	0.014336	0.008133	0.002278	0.022779
21-May-2027	0.830961	14.482800	22.705000	3.546030	50.766103	1.982500	0.025398	0.251884	0.052295	0.004022	0.002260	0.144710	0.000695	0.014030	0.007960	0.002229	0.022293
22-May-2027	0.840461	14.122200	22.139500	3.457780	49.502271	1.933100	0.024765	0.245609	0.050995	0.003922	0.002204	0.141109	0.000677	0.013681	0.007761	0.002174	0.021738
23-May-2027	0.854424	13.896900	21.786300	3.402610	48.712507	1.902270	0.024370	0.241691	0.050181	0.003859	0.002169	0.138858	0.000667	0.013463	0.007638	0.002139	0.021391
24-May-2027	0.867493	13.584100	21.295700	3.326070	47.616254	1.859410	0.023821	0.236246	0.049054	0.003773	0.002120	0.135736	0.000652	0.013160	0.007466	0.002091	0.020909
25-May-2027	0.876502	13.680000	21.445200	3.349760	47.953272	1.872360	0.023988	0.237896	0.049411	0.003799	0.002135	0.136711	0.000656	0.013254	0.007518	0.002106	0.021056
26-May-2027	0.884330	12.914700	20.246100	3.162230	45.270069	1.767740	0.022647	0.224600	0.046639	0.003587	0.002016	0.129052	0.000620	0.012512	0.007098	0.001988	0.019879

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
27-May-2027	0.895188	12.576500	19.715700	3.079440	44.084654	1.721410	0.022053	0.218715	0.045419	0.003493	0.001963	0.125674	0.000603	0.012184	0.006912	0.001936	0.019358
28-May-2027	0.910579	12.405400	19.447300	3.037600	43.485121	1.697950	0.021753	0.215735	0.044804	0.003445	0.001936	0.123969	0.000595	0.012019	0.006818	0.001909	0.019095
29-May-2027	0.930148	12.269900	19.234800	3.004460	43.010307	1.679390	0.021515	0.213377	0.044316	0.003407	0.001915	0.122617	0.000589	0.011887	0.006743	0.001889	0.018886
30-May-2027	0.942936	12.182900	19.098400	2.983170	42.705395	1.667470	0.021363	0.211864	0.044001	0.003383	0.001902	0.121750	0.000584	0.011803	0.006695	0.001875	0.018752
31-May-2027	0.951452	12.078200	18.934100	2.957610	42.338703	1.653110	0.021179	0.210042	0.043624	0.003354	0.001885	0.120712	0.000579	0.011702	0.006638	0.001859	0.018591
1-Jun-2027	1.019838	11.944400	18.724000	2.924950	41.870111	1.634740	0.020944	0.207712	0.043143	0.003317	0.001865	0.119387	0.000573	0.011573	0.006564	0.001838	0.018385
2-Jun-2027	1.088879	11.788400	18.474400	2.888180	41.329160	1.612380	0.020665	0.204941	0.042658	0.003272	0.001843	0.117934	0.000565	0.011428	0.006478	0.001815	0.018146
3-Jun-2027	1.284105	11.604000	18.174500	2.846200	40.695840	1.584990	0.020330	0.201622	0.048263	0.003218	0.001902	0.116332	0.000556	0.011263	0.006375	0.001787	0.017868
4-Jun-2027	1.614630	11.442700	17.899100	2.813230	40.157303	1.559290	0.020023	0.198591	0.042690	0.003168	0.001821	0.115500	0.000547	0.011139	0.006283	0.001763	0.017630
5-Jun-2027	1.603180	11.243500	17.558100	2.772840	39.493575	1.527000	0.019643	0.194840	0.042803	0.003105	0.001801	0.113915	0.000536	0.010980	0.006169	0.001734	0.017338
6-Jun-2027	1.603991	11.029600	17.197300	2.727820	38.774074	1.492810	0.019241	0.190845	0.041664	0.003038	0.001780	0.112283	0.000524	0.010805	0.006048	0.001702	0.017021
7-Jun-2027	1.555730	10.780600	16.781900	2.674160	37.931349	1.453490	0.018775	0.186234	0.041188	0.002961	0.001760	0.110630	0.000511	0.010596	0.005908	0.001665	0.016649
8-Jun-2027	1.523396	10.568600	16.420200	2.630800	37.223429	1.418520	0.018367	0.182192	0.040802	0.002894	0.001742	0.109163	0.000499	0.010428	0.005787	0.001634	0.016335
9-Jun-2027	1.590553	10.349400	16.050300	2.588380	36.501401	1.383240	0.017949	0.178040	0.040864	0.002825	0.001725	0.107694	0.000487	0.010268	0.005662	0.001601	0.016008
10-Jun-2027	1.790929	10.201400	15.797900	2.555490	35.996404	1.358830	0.017663	0.175179	0.040760	0.002778	0.001715	0.106502	0.000479	0.010140	0.005578	0.001579	0.015787
11-Jun-2027	2.100770	10.064700	15.562000	2.527140	35.538318	1.335790	0.017397	0.172519	0.040326	0.002733	0.001708	0.105606	0.000472	0.010026	0.005500	0.001558	0.015585
12-Jun-2027	2.260308	9.883180	15.247900	2.491230	34.937186	1.305080	0.017045	0.169030	0.040139	0.002674	0.001698	0.104525	0.000461	0.009888	0.005396	0.001532	0.015319
13-Jun-2027	2.512274	9.721120	14.965100	2.461340	34.409435	1.277180	0.016728	0.165891	0.039858	0.002621	0.001684	0.103354	0.000452	0.009777	0.005302	0.001508	0.015082
14-Jun-2027	2.768564	9.536370	14.647200	2.422660	33.788830	1.246230	0.016370	0.162273	0.039570	0.002562	0.001669	0.102165	0.000442	0.009626	0.005197	0.001481	0.014809
15-Jun-2027	3.085417	9.361560	14.340000	2.390430	33.219606	1.215780	0.016027	0.158781	0.039300	0.002505	0.001656	0.101168	0.000432	0.009506	0.005096	0.001455	0.014553
16-Jun-2027	3.375546	9.215600	14.093100	2.360900	32.733539	1.192190	0.015746	0.155865	0.038994	0.002460	0.001642	0.100096	0.000424	0.009393	0.005013	0.001434	0.014336
17-Jun-2027	3.641950	9.015530	13.741600	2.321240	32.070645	1.157590	0.015359	0.151925	0.038721	0.002395	0.001626	0.098865	0.000412	0.009242	0.004897	0.001404	0.014042
18-Jun-2027	3.829712	8.864160	13.484600	2.287740	31.554721	1.133030	0.015072	0.148992	0.038456	0.002350	0.001613	0.097645	0.000404	0.009111	0.004812	0.001381	0.013808
19-Jun-2027	3.934314	8.721160	13.226200	2.261370	31.089058	1.107460	0.014804	0.146073	0.038232	0.002305	0.001602	0.097051	0.000395	0.009016	0.004729	0.001360	0.013601
20-Jun-2027	4.113658	8.536280	12.918200	2.221300	30.462405	1.078260	0.014447	0.142661	0.038048	0.002249	0.001591	0.095812	0.000385	0.008860	0.004625	0.001332	0.013315
21-Jun-2027	4.220129	8.381100	12.633500	2.193630	29.960975	1.050120	0.014172	0.139561	0.037887	0.002203	0.001580	0.095196	0.000376	0.008765	0.004535	0.001309	0.013093
22-Jun-2027	4.319098	8.253800	12.424200	2.166160	29.529985	1.030090	0.013918	0.137203	0.037712	0.002162	0.001571	0.094423	0.000369	0.008663	0.004463	0.001290	0.012897
23-Jun-2027	4.367507	8.084680	12.116800	2.135180	28.980117	0.999769	0.013609	0.133902	0.037577	0.002111	0.001562	0.093526	0.000359	0.008546	0.004365	0.001265	0.012653
24-Jun-2027	4.506431	7.955810	11.899500	2.108930	28.550231	0.978915	0.013364	0.131417	0.037409	0.002072	0.001552	0.092766	0.000352	0.008448	0.004292	0.001246	0.012458
25-Jun-2027	4.647153	7.811430	11.653600	2.079680	28.069263	0.954822	0.013074	0.128658	0.037265	0.002025	0.001545	0.091855	0.000344	0.008336	0.004210	0.001224	0.012238
26-Jun-2027	4.980050	7.664120	11.394600	2.053570	27.593909	0.929507	0.012797	0.125804	0.037175	0.001981	0.001537	0.091072	0.000336	0.008230	0.004126	0.001202	0.012023
27-Jun-2027	5.185882	7.537390	11.156300	2.030710	27.183327	0.905200	0.012537	0.123324	0.036966	0.001940	0.001528	0.090334	0.000327	0.008144	0.004050	0.001185	0.011853
28-Jun-2027	5.417442	7.405480	10.932100	1.999690	26.726207	0.884268	0.012295	0.120746	0.036775	0.001903	0.001518	0.089620	0.000320	0.008038	0.003978	0.001163	0.011633
29-Jun-2027	5.686955	7.260840	10.687700	1.974930	26.263079	0.860395	0.012017	0.117955	0.036618	0.001858	0.001510	0.088893	0.000312	0.007936	0.003895	0.001143	0.011429
30-Jun-2027	5.874581	7.139470	10.462400	1.948980	25.853156	0.838076	0.011783	0.115573	0.036439	0.001821	0.001501	0.088272	0.000305	0.007848	0.003825	0.001124	0.011239
1-Jul-2027	6.099542	7.025400	10.262500	1.928980	25.485963	0.818855	0.011569	0.113385	0.036273	0.001789	0.001493	0.087723	0.000298	0.007766	0.003760	0.001108	0.011082
2-Jul-2027	6.438406	6.983690	10.254400	1.884460	25.198480	0.823807	0.011453	0.112311	0.035370	0.001797	0.001443	0.085941	0.000299	0.007708	0.003761	0.001097	0.010974
3-Jul-2027	7.967480	6.427250	9.301170	1.770240	23.338692	0.733747	0.010420	0.102008	0.033994	0.001648	0.001392	0.082949	0.000269	0.007259	0.003444	0.001011	0.010114
4-Jul-2027	8.933036	6.330820	9.136060	1.746200	22.998909	0.719138	0.010254	0.100344	0.033738	0.001629	0.001380	0.082569	0.000264	0.007190	0.003394	0.000996	0.009964
5-Jul-2027	11.373661	6.265700	9.020590	1.733640	22.784582	0.708504	0.010146	0.099262	0.033537	0.001617	0.001375	0.083257	0.000260	0.007139	0.003356	0.000986	0.009860
6-Jul-2027	12.895798	6.538600	9.511660	1.779260	23.653877	0.757969	0.010655	0.104371	0.033816	0.001712	0.001382	0.084126	0.000277	0.007339	0.003520	0.001027	0.010266
7-Jul-2027	13.885659	6.721730	9.843300	1.807790	24.228639	0.791475	0.010995	0.107758	0.034082	0.001774	0.001386	0.085287	0.000288	0.007475	0.003630	0.001054	0.010538
8-Jul-2027	14.883690	6.559740	9.538480	1.783620	23.724618	0.761486	0.010718	0.104953	0.033853	0.001738	0.001383	0.084768	0.000278	0.007367	0.003533	0.001029	0.010286
9-Jul-2027	13.825282	6.612850	9.653780	1.791610	23.890136	0.772236	0.010786	0.105692	0.033754	0.001735	0.001381	0.083856	0.000281	0.007373	0.003562	0.001037	0.010374
10-Jul-2027	16.125696	6.513760	9.471990	1.775220	23.575215	0.754207	0.010607	0.103874	0.033568	0.001706	0.001379	0.083602	0.000275	0.007304	0.003503	0.001022	0.010221
11-Jul-2027	16.013980	6.757980	9.922710	1.815140	24.349423	0.799052	0.011044	0.108271	0.033785	0.001777	0.001384	0.084124	0.000290	0.007469	0.003648	0.001059	0.010591
12-Jul-2027	15.840965	6.779570	9.964850	1.820000	24.423346	0.802996	0.011077	0.108615	0.033697	0.001783	0.001384	0.084115	0.000292	0.007472	0.003659	0.001062	0.010622
13-Jul-2027	15.899133	6.725560	9.860770	1.810980	24.251339	0.792852	0.010986	0.107684	0.033670	0.001772	0.001383	0.084234	0.000288	0.007443	0.003628	0.001054	0.010537
14-Jul-2027	16.588624	6.637700	9.696730	1.798600	23.980972	0.776496	0.010831	0.106130	0.033534	0.001750	0.001382	0.084302	0.000283	0.007378	0.003574	0.001040	0.010401
15-Jul-2027	16.725457	7.368200	11.029500	1.910540	26.265999	0.910195	0.012163	0.119459	0.034548	0.001974	0.001398	0.086386	0.000327	0.007924	0.004017	0.001151	0.011506
16-Jul-2027	17.015608	7.115810	10.571300	1.872460	25.478968	0.864064	0.011697	0.114811	0.034144	0.001894	0.001392	0.085532	0.000312	0.007729	0.003863	0.001112	0.011124
17-Jul-2027	16.514522	6.889980	10.158700	1.839190	24.778064	0.822544	0.011283	0.110650	0.033752	0.001827	0.001388	0.084942	0.000298	0.007554	0.003724	0.001078	0.010779

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Jul-2027	16.812786	6.991850	10.339000	1.856460	25.103552	0.840768	0.011475	0.112550	0.033851	0.001866	0.001391	0.085621	0.000304	0.007631	0.003785	0.001093	0.010928
19-Jul-2027	16.290716	6.943250	10.254100	1.849810	24.954813	0.832038	0.011380	0.111617	0.033713	0.001848	0.001390	0.085331	0.000302	0.007585	0.003754	0.001085	0.010854
20-Jul-2027	15.911173	6.911830	10.195000	1.845890	24.860215	0.826139	0.011325	0.111062	0.033627	0.001841	0.001389	0.085368	0.000300	0.007560	0.003735	0.001080	0.010804
21-Jul-2027	16.338071	7.033470	10.417200	1.864820	25.241903	0.848381	0.011546	0.113272	0.033784	0.001878	0.001392	0.085717	0.000307	0.007649	0.003808	0.001099	0.010988
22-Jul-2027	17.064276	7.232850	10.782900	1.899480	25.882485	0.884666	0.011904	0.116835	0.033883	0.001942	0.001397	0.086427	0.000319	0.007778	0.003925	0.001129	0.011286
23-Jul-2027	16.077812	6.966920	10.295600	1.857440	25.045337	0.835891	0.011418	0.111986	0.033538	0.001860	0.001391	0.085632	0.000303	0.007586	0.003765	0.001088	0.010882
24-Jul-2027	16.346218	7.504790	11.278200	1.939840	26.727722	0.934399	0.012397	0.121780	0.034285	0.002024	0.001402	0.087140	0.000336	0.007986	0.004091	0.001170	0.011696
25-Jul-2027	15.717149	7.163420	10.654500	1.889280	25.667115	0.871753	0.011774	0.115543	0.033724	0.001922	0.001395	0.086269	0.000315	0.007724	0.003882	0.001118	0.011177
26-Jul-2027	15.819378	7.096410	10.532700	1.880450	25.463429	0.859317	0.011646	0.114252	0.033539	0.001902	0.001394	0.086085	0.000311	0.007666	0.003840	0.001107	0.011072
27-Jul-2027	14.979184	7.137320	10.608400	1.887500	25.594613	0.866821	0.011719	0.114994	0.033552	0.001914	0.001395	0.086185	0.000313	0.007691	0.003864	0.001113	0.011134
28-Jul-2027	14.637455	7.158370	10.647700	1.891420	25.663317	0.870635	0.011754	0.115339	0.033534	0.001920	0.001395	0.086215	0.000315	0.007702	0.003875	0.001116	0.011165
29-Jul-2027	14.716963	7.224720	10.769900	1.902210	25.873427	0.882758	0.011871	0.116508	0.033583	0.001940	0.001397	0.086358	0.000319	0.007746	0.003915	0.001126	0.011264
30-Jul-2027	14.096061	7.353710	11.008400	1.923640	26.283763	0.906425	0.012101	0.118826	0.033677	0.001978	0.001399	0.086637	0.000327	0.007831	0.003991	0.001146	0.011459
31-Jul-2027	14.190557	7.612840	11.481000	1.962970	27.092772	0.953858	0.012573	0.123548	0.034050	0.002057	0.001405	0.087390	0.000343	0.008026	0.004148	0.001185	0.011851
1-Aug-2027	14.685469	7.831260	11.881400	1.997790	27.781555	0.993836	0.012967	0.127502	0.034301	0.002123	0.001409	0.088004	0.000356	0.008181	0.004279	0.001218	0.012181
2-Aug-2027	14.923669	8.299890	12.750700	2.075990	29.273752	1.079380	0.013768	0.135528	0.034574	0.002257	0.001419	0.088845	0.000385	0.008479	0.004554	0.001289	0.012892
3-Aug-2027	15.052339	8.224780	12.610000	2.063350	29.034151	1.065480	0.013635	0.134175	0.034532	0.002238	0.001417	0.088789	0.000380	0.008434	0.004511	0.001278	0.012777
4-Aug-2027	15.175790	7.984780	12.167400	2.026010	28.281105	1.021420	0.013207	0.129858	0.034251	0.002168	0.001412	0.088279	0.000366	0.008266	0.004367	0.001241	0.012410
5-Aug-2027	15.818096	7.715910	11.676200	1.984950	27.440651	0.971993	0.012710	0.124865	0.033807	0.002087	0.001407	0.087549	0.000349	0.008061	0.004203	0.001200	0.011999
6-Aug-2027	15.676271	7.665410	11.582800	1.978190	27.286715	0.962524	0.012614	0.123894	0.033688	0.002074	0.001406	0.087514	0.000346	0.008020	0.004171	0.001192	0.011920
7-Aug-2027	16.344004	7.581410	11.434500	1.968380	27.036570	0.946812	0.012433	0.122062	0.033407	0.002045	0.001405	0.087105	0.000341	0.007935	0.004116	0.001179	0.011791
8-Aug-2027	16.176616	7.729050	11.699100	1.993090	27.506982	0.973233	0.012696	0.124666	0.033549	0.002099	0.001408	0.088287	0.000350	0.008042	0.004204	0.001201	0.012005
9-Aug-2027	16.662445	7.717080	11.680600	1.991530	27.470669	0.971094	0.012664	0.124349	0.033456	0.002091	0.001408	0.087690	0.000349	0.008026	0.004196	0.001199	0.011989
10-Aug-2027	16.135763	7.978940	12.163900	2.033900	28.299013	1.018900	0.013119	0.128896	0.033688	0.002168	0.001413	0.088242	0.000366	0.008203	0.004352	0.001239	0.012387
11-Aug-2027	15.873420	7.796810	11.828800	2.005290	27.726419	0.985503	0.012793	0.125624	0.033444	0.002114	0.001409	0.087826	0.000354	0.008074	0.004243	0.001211	0.012108
12-Aug-2027	15.417204	7.856030	11.937700	2.015410	27.915965	0.996172	0.012892	0.126608	0.033471	0.002132	0.001411	0.087999	0.000358	0.008112	0.004277	0.001220	0.012197
13-Aug-2027	15.335594	8.211100	12.587000	2.070850	29.030877	1.060970	0.013526	0.132941	0.033910	0.002241	0.001418	0.089007	0.000380	0.008370	0.004491	0.001273	0.012733
14-Aug-2027	14.504149	7.847870	11.925100	2.016880	27.901643	0.994223	0.012852	0.126182	0.033292	0.002130	0.001411	0.087942	0.000358	0.008088	0.004269	0.001218	0.012179
15-Aug-2027	13.508827	7.898650	12.018100	2.025400	28.063526	1.003380	0.012938	0.127032	0.033319	0.002146	0.001412	0.088100	0.000361	0.008122	0.004299	0.001225	0.012255
16-Aug-2027	13.376449	7.982860	12.175300	2.039900	28.333510	1.018660	0.013075	0.128398	0.033357	0.002169	0.001413	0.088249	0.000366	0.008172	0.004348	0.001238	0.012383
17-Aug-2027	13.310990	8.257360	12.676500	2.082550	29.194569	1.068750	0.013568	0.133319	0.033706	0.002254	0.001419	0.089050	0.000383	0.008374	0.004513	0.001280	0.012797
18-Aug-2027	13.507569	8.395560	12.929900	2.104600	29.630456	1.093910	0.013811	0.135737	0.033834	0.002295	0.001422	0.089392	0.000391	0.008470	0.004596	0.001300	0.013004
19-Aug-2027	13.969586	8.284460	12.708100	2.079440	29.249431	1.072830	0.013625	0.133743	0.034105	0.002274	0.001420	0.089785	0.000384	0.008451	0.004540	0.001283	0.012829
20-Aug-2027	13.318876	7.980730	12.165200	2.040040	28.328768	1.017220	0.013044	0.127982	0.033275	0.002175	0.001414	0.088536	0.000366	0.008175	0.004347	0.001237	0.012367
21-Aug-2027	13.366957	8.044200	12.285500	2.051910	28.536133	1.028750	0.013144	0.128991	0.033225	0.002192	0.001415	0.088590	0.000370	0.008204	0.004382	0.001246	0.012463
22-Aug-2027	13.283702	8.072230	12.337900	2.057050	28.627290	1.033760	0.013186	0.129403	0.033208	0.002200	0.001416	0.088599	0.000371	0.008219	0.004398	0.001250	0.012504
23-Aug-2027	13.485704	8.237460	12.641000	2.083160	29.147391	1.063900	0.013477	0.132314	0.033396	0.002249	0.001419	0.089034	0.000382	0.008336	0.004497	0.001275	0.012754
24-Aug-2027	13.327576	8.419930	12.974400	2.113150	29.726517	1.097260	0.013807	0.135605	0.033638	0.002305	0.001423	0.089549	0.000393	0.008471	0.004607	0.001303	0.013030
25-Aug-2027	13.522767	8.689100	13.468800	2.153660	30.565455	1.146440	0.014283	0.140366	0.033930	0.002385	0.001428	0.090185	0.000409	0.008661	0.004769	0.001344	0.013437
26-Aug-2027	13.375880	8.916710	13.887300	2.189870	31.282910	1.188000	0.014683	0.144366	0.034170	0.002452	0.001433	0.090731	0.000423	0.008820	0.004905	0.001378	0.013782
27-Aug-2027	13.250624	8.435770	13.008700	2.117850	29.785424	1.099590	0.013797	0.135474	0.033403	0.002308	0.001423	0.089446	0.000394	0.008454	0.004612	0.001305	0.013050
28-Aug-2027	13.199449	8.436320	13.015300	2.122060	29.804134	1.099180	0.013760	0.135086	0.033212	0.002306	0.001423	0.089305	0.000394	0.008426	0.004607	0.001305	0.013048
29-Aug-2027	12.893833	8.528900	13.186500	2.136370	30.094235	1.116280	0.013928	0.136777	0.033286	0.002332	0.001425	0.089447	0.000400	0.008491	0.004662	0.001319	0.013190
30-Aug-2027	12.165433	8.366820	12.888100	2.111450	29.586901	1.086390	0.013631	0.133791	0.033039	0.002285	0.001422	0.089120	0.000390	0.008373	0.004564	0.001294	0.012940
31-Aug-2027	11.990578	8.583890	13.285200	2.148020	30.279520	1.125400	0.013995	0.137393	0.033186	0.002354	0.001427	0.089846	0.000403	0.008517	0.004692	0.001326	0.013263
1-Sep-2027	11.483163	8.396720	12.942000	2.118330	29.689893	1.091310	0.013664	0.134092	0.032945	0.002298	0.001423	0.089363	0.000392	0.008384	0.004580	0.001298	0.012979
2-Sep-2027	11.127420	8.689270	13.476600	2.162540	30.602447	1.145020	0.014200	0.139457	0.033369	0.002386	0.001429	0.090152	0.000410	0.008604	0.004758	0.001342	0.013422
3-Sep-2027	11.001055	8.669260	13.441200	2.159210	30.538769	1.141530	0.014164	0.139098	0.033326	0.002380	0.001428	0.090052	0.000408	0.008588	0.004746	0.001339	0.013391
4-Sep-2027	11.052224	8.930920	13.921900	2.198820	31.355248	1.189860	0.014639	0.143846	0.033654	0.002460	0.001432	0.090728	0.000425	0.008778	0.004905	0.001379	0.013787
5-Sep-2027	11.240455	9.260350	14.529800	2.248650	32.383035	1.250990	0.015236	0.149829	0.034035	0.002560	0.001436	0.091467	0.000445	0.009014	0.005104	0.001429	0.014286
6-Sep-2027	11.227690	8.848580	13.776500	2.186350	31.098294	1.175410	0.014481	0.142261	0.033404	0.002439	0.001428	0.090478	0.000420	0.008705	0.004854	0.001366	0.013658
7-Sep-2027	10.995143	8.625510	13.372100	2.152520	30.401976	1.134840	0.014070	0.138146	0.032999	0.002371	0.001422	0.089781	0.000406	0.008530	0.004718	0.001332	0.013318

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Sep-2027	10.489598	8.939990	13.946200	2.200480	31.384732	1.192490	0.014640	0.143839	0.033417	0.002470	0.001428	0.090754	0.000425	0.008765	0.004909	0.001379	0.013791
9-Sep-2027	10.245046	9.060710	14.170600	2.218730	31.761323	1.215110	0.014856	0.145999	0.033512	0.002508	0.001429	0.091035	0.000433	0.008847	0.004982	0.001397	0.013972
10-Sep-2027	10.123012	9.140280	14.316300	2.231070	32.010825	1.229680	0.015001	0.147457	0.033632	0.002531	0.001430	0.091234	0.000438	0.008906	0.005030	0.001409	0.014093
11-Sep-2027	9.557664	9.004890	14.075900	2.210020	31.586073	1.205680	0.014751	0.144966	0.033331	0.002488	0.001425	0.090598	0.000430	0.008792	0.004948	0.001389	0.013888
12-Sep-2027	9.061043	9.318110	14.648400	2.257680	32.564447	1.263150	0.015321	0.150666	0.033761	0.002584	0.001431	0.091491	0.000449	0.009025	0.005138	0.001436	0.014362
13-Sep-2027	8.367476	8.782700	13.670400	2.176440	30.892982	1.165100	0.014339	0.140825	0.032913	0.002426	0.001420	0.090140	0.000416	0.008621	0.004813	0.001355	0.013545
14-Sep-2027	7.984577	8.858050	13.811000	2.187710	31.127541	1.179300	0.014474	0.142181	0.032978	0.002449	0.001420	0.090294	0.000421	0.008673	0.004858	0.001366	0.013659
15-Sep-2027	7.582033	8.913770	13.914800	2.196030	31.300935	1.189760	0.014575	0.143188	0.033018	0.002466	0.001420	0.090377	0.000425	0.008710	0.004892	0.001374	0.013743
16-Sep-2027	7.151461	8.985550	14.048700	2.206910	31.524974	1.203210	0.014702	0.144446	0.033060	0.002488	0.001421	0.090508	0.000429	0.008758	0.004935	0.001385	0.013849
17-Sep-2027	6.997647	9.627150	15.221500	2.304400	33.528513	1.320920	0.015872	0.156161	0.033975	0.002682	0.001433	0.092261	0.000468	0.009237	0.005325	0.001482	0.014822
18-Sep-2027	6.425460	9.044920	14.161300	2.215710	31.709459	1.214610	0.014808	0.145521	0.033081	0.002505	0.001420	0.090545	0.000433	0.008794	0.004971	0.001394	0.013939
19-Sep-2027	6.317894	9.044120	14.162400	2.215530	31.706720	1.214760	0.014805	0.145485	0.033032	0.002504	0.001419	0.090462	0.000433	0.008788	0.004970	0.001394	0.013937
20-Sep-2027	5.887479	9.090520	14.248700	2.222450	31.851078	1.223470	0.014889	0.146323	0.033073	0.002519	0.001420	0.090559	0.000436	0.008821	0.004998	0.001401	0.014007
21-Sep-2027	5.957949	9.398040	14.811600	2.269120	32.811142	1.280000	0.015449	0.151926	0.033497	0.002612	0.001425	0.091384	0.000455	0.009049	0.005185	0.001447	0.014472
22-Sep-2027	6.020897	9.195410	14.444800	2.238310	32.178299	1.243360	0.015074	0.148165	0.033097	0.002554	0.001419	0.090847	0.000443	0.008888	0.005062	0.001416	0.014161
23-Sep-2027	5.522627	9.234900	14.519700	2.243970	32.300214	1.250940	0.015146	0.148891	0.033124	0.002565	0.001419	0.090840	0.000445	0.008914	0.005086	0.001422	0.014221
24-Sep-2027	5.232912	9.441800	14.898900	2.275520	32.946766	1.288970	0.015522	0.152658	0.033401	0.002627	0.001423	0.091372	0.000458	0.009066	0.005211	0.001453	0.014535
25-Sep-2027	5.196448	9.438920	14.897600	2.274780	32.936527	1.288980	0.015513	0.152567	0.033323	0.002627	0.001421	0.091287	0.000458	0.009056	0.005209	0.001453	0.014528
26-Sep-2027	5.066871	9.209240	14.482000	2.239780	32.218886	1.247320	0.015092	0.148351	0.032926	0.002557	0.001416	0.090524	0.000444	0.008877	0.005069	0.001418	0.014180
27-Sep-2027	5.423382	9.553950	15.111700	2.292090	33.295040	1.310570	0.015720	0.154628	0.033405	0.002663	0.001422	0.091517	0.000465	0.009134	0.005279	0.001470	0.014701
28-Sep-2027	5.485162	9.407710	14.848100	2.269910	32.838541	1.284310	0.015450	0.151929	0.033100	0.002621	0.001417	0.091155	0.000456	0.009016	0.005190	0.001448	0.014476
29-Sep-2027	5.227697	9.536130	15.083200	2.289230	33.238766	1.307960	0.015682	0.154241	0.033253	0.002661	0.001419	0.091484	0.000464	0.009111	0.005268	0.001467	0.014668
30-Sep-2027	5.265424	9.766430	15.505400	2.324040	33.957172	1.350350	0.016101	0.158438	0.033568	0.002731	0.001423	0.092061	0.000478	0.009281	0.005408	0.001502	0.015017
1-Oct-2027	5.195430	9.872690	15.702200	2.339980	34.288145	1.370160	0.016294	0.160373	0.033689	0.002762	0.001425	0.092258	0.000485	0.009356	0.005472	0.001518	0.015179
2-Oct-2027	4.439870	9.447650	14.928200	2.274910	32.958861	1.292580	0.015520	0.152627	0.033053	0.002632	0.001415	0.090986	0.000459	0.009035	0.005214	0.001453	0.014535
3-Oct-2027	4.168469	9.339760	14.730600	2.258500	32.621884	1.272780	0.015325	0.150684	0.032912	0.002600	0.001413	0.090699	0.000453	0.008956	0.005149	0.001437	0.014372
4-Oct-2027	4.140788	9.245500	14.557600	2.243950	32.326600	1.255490	0.015153	0.148962	0.032774	0.002573	0.001411	0.090528	0.000447	0.008887	0.005092	0.001423	0.014228
5-Oct-2027	3.741060	9.208490	14.490500	2.238010	32.209725	1.248830	0.015087	0.148299	0.032720	0.002561	0.001410	0.090385	0.000445	0.008859	0.005069	0.001417	0.014172
6-Oct-2027	3.715522	9.177920	14.434900	2.233060	32.113007	1.243340	0.015033	0.147762	0.032687	0.002552	0.001409	0.090295	0.000443	0.008837	0.005051	0.001413	0.014126
7-Oct-2027	3.406277	9.178750	14.436600	2.233190	32.115615	1.243470	0.015034	0.147777	0.032689	0.002552	0.001409	0.090271	0.000443	0.008837	0.005052	0.001413	0.014127
8-Oct-2027	3.179191	9.164070	14.410100	2.230850	32.069323	1.240840	0.015008	0.147524	0.032670	0.002547	0.001409	0.090214	0.000442	0.008826	0.005043	0.001411	0.014106
9-Oct-2027	2.904155	9.144220	14.374300	2.227410	32.005592	1.237390	0.014973	0.147177	0.032634	0.002542	0.001408	0.090194	0.000441	0.008811	0.005031	0.001407	0.014075
10-Oct-2027	1.778053	9.115650	14.322800	2.222660	31.914692	1.232340	0.014924	0.146684	0.032596	0.002534	0.001407	0.090117	0.000439	0.008790	0.005014	0.001403	0.014032
11-Oct-2027	1.477956	9.088790	14.274800	2.218140	31.829009	1.227620	0.014877	0.146230	0.032568	0.002525	0.001406	0.089981	0.000437	0.008770	0.004998	0.001399	0.013993
12-Oct-2027	0.624026	9.066650	14.235400	2.214410	31.758365	1.223750	0.014839	0.145853	0.032541	0.002518	0.001405	0.089882	0.000436	0.008753	0.004985	0.001396	0.013960
13-Oct-2027	0.359695	9.056190	14.216800	2.212590	31.724752	1.221950	0.014821	0.145672	0.032520	0.002515	0.001405	0.089836	0.000435	0.008745	0.004979	0.001394	0.013944
14-Oct-2027	0.279111	9.059020	14.222000	2.213050	31.733713	1.222470	0.014826	0.145721	0.032522	0.002516	0.001405	0.089812	0.000436	0.008747	0.004980	0.001395	0.013948
15-Oct-2027	0.043023	9.026410	14.163300	2.207680	31.630172	1.216710	0.014769	0.145157	0.032477	0.002506	0.001404	0.089711	0.000434	0.008722	0.004961	0.001390	0.013899
16-Oct-2027	0.020651	9.015080	14.143100	2.205730	31.593851	1.214740	0.014749	0.144963	0.032458	0.002503	0.001403	0.089665	0.000433	0.008714	0.004954	0.001388	0.013882
17-Oct-2027	0.016435	9.038530	14.179700	2.211520	31.676249	1.217880	0.014787	0.145339	0.032542	0.002509	0.001407	0.089903	0.000434	0.008736	0.004967	0.001392	0.013918
18-Oct-2027	0.015801	9.113300	14.296700	2.229920	31.938721	1.227900	0.014909	0.146539	0.032814	0.002530	0.001419	0.090654	0.000438	0.008809	0.005008	0.001403	0.014033
19-Oct-2027	0.015421	9.173570	14.391200	2.244710	32.150120	1.236000	0.015008	0.147508	0.033032	0.002547	0.001428	0.091255	0.000441	0.008867	0.005041	0.001413	0.014126
20-Oct-2027	0.015518	9.230020	14.479400	2.258640	32.348439	1.243540	0.015100	0.148415	0.033239	0.002562	0.001437	0.091824	0.000443	0.008922	0.005072	0.001421	0.014213
21-Oct-2027	0.017354	9.207470	14.441900	2.253900	32.272613	1.240100	0.015062	0.148043	0.033181	0.002555	0.001435	0.091653	0.000442	0.008902	0.005059	0.001418	0.014179
22-Oct-2027	0.018623	9.235890	14.485700	2.261120	32.373309	1.243790	0.015108	0.148497	0.033292	0.002563	0.001439	0.091955	0.000443	0.008930	0.005075	0.001422	0.014223
23-Oct-2027	0.019659	9.263270	14.527900	2.268090	32.470380	1.247330	0.015153	0.148933	0.033398	0.002571	0.001444	0.092247	0.000445	0.008958	0.005090	0.001427	0.014265
24-Oct-2027	0.020130	9.293920	14.575200	2.275850	32.578869	1.251330	0.015203	0.149422	0.033515	0.002579	0.001449	0.092575	0.000446	0.008988	0.005106	0.001431	0.014312
25-Oct-2027	0.020017	9.330350	14.634700	2.283970	32.703272	1.256670	0.015263	0.150016	0.033629	0.002590	0.001454	0.092901	0.000448	0.009021	0.005127	0.001437	0.014368
26-Oct-2027	0.019844	9.360550	14.678000	2.292770	32.814920	1.260100	0.015310	0.150481	0.033767	0.002598	0.001461	0.093295	0.000449	0.009054	0.005142	0.001442	0.014415
27-Oct-2027	0.019918	9.394090	14.731100	2.301140	32.933137	1.264860	0.015365	0.151018	0.033891	0.002607	0.001466	0.093644	0.000451	0.009087	0.005161	0.001447	0.014467
28-Oct-2027	0.020322	9.433120	14.794800	2.310750	33.070169	1.270340	0.015430	0.151661	0.034032	0.002618	0.001472	0.094038	0.000453	0.009124	0.005183	0.001453	0.014527
29-Oct-2027	0.020598	9.473350	14.857800	2.319420	33.206327	1.275700	0.015496	0.152309	0.034150	0.002629	0.001477	0.094369	0.000455	0.009160	0.005205	0.001459	0.014588

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30-Oct-2027	0.020721	9.508770	14.913500	2.328050	33.330309	1.280490	0.015554	0.152879	0.034272	0.002639	0.001482	0.094687	0.000457	0.009194	0.005225	0.001464	0.014643
31-Oct-2027	0.020691	9.558850	14.992200	2.340220	33.505474	1.287280	0.015636	0.153685	0.034451	0.002653	0.001490	0.095180	0.000459	0.009242	0.005252	0.001472	0.014720
1-Nov-2027	0.020954	9.597480	15.052700	2.349700	33.640972	1.292470	0.015700	0.154306	0.034591	0.002664	0.001496	0.095569	0.000461	0.009280	0.005273	0.001478	0.014779
2-Nov-2027	0.020942	9.626200	15.097200	2.356900	33.742336	1.296240	0.015746	0.154765	0.034699	0.002672	0.001501	0.095894	0.000462	0.009308	0.005289	0.001482	0.014824
3-Nov-2027	0.021085	9.656080	15.143600	2.364370	33.847707	1.300190	0.015795	0.155242	0.034810	0.002680	0.001506	0.096259	0.000464	0.009338	0.005305	0.001487	0.014870
4-Nov-2027	0.021172	9.689240	15.195400	2.372550	33.964193	1.304620	0.015849	0.155774	0.034930	0.002689	0.001511	0.096522	0.000465	0.009370	0.005324	0.001492	0.014921
5-Nov-2027	0.021018	9.686880	15.187300	2.373180	33.960895	1.303590	0.015843	0.155715	0.034960	0.002689	0.001512	0.096645	0.000465	0.009372	0.005322	0.001492	0.014917
6-Nov-2027	0.019959	9.719350	15.241100	2.380310	34.071334	1.308450	0.015897	0.156248	0.035047	0.002698	0.001516	0.096884	0.000467	0.009400	0.005340	0.001497	0.014967
7-Nov-2027	0.019302	9.750800	15.291800	2.387640	34.180049	1.312890	0.015949	0.156761	0.035150	0.002707	0.001520	0.097153	0.000468	0.009429	0.005357	0.001502	0.015015
8-Nov-2027	0.018960	9.779220	15.336600	2.394530	34.279387	1.316760	0.015996	0.157218	0.035249	0.002715	0.001525	0.097429	0.000469	0.009457	0.005373	0.001506	0.015059
9-Nov-2027	0.018857	9.813970	15.390700	2.403160	34.401696	1.321380	0.016053	0.157774	0.035376	0.002725	0.001530	0.097792	0.000471	0.009491	0.005392	0.001511	0.015112
10-Nov-2027	0.018835	9.853900	15.452700	2.413150	34.542540	1.326670	0.016118	0.158411	0.035522	0.002736	0.001537	0.098237	0.000473	0.009530	0.005414	0.001517	0.015173
11-Nov-2027	0.019076	9.886790	15.504200	2.421210	34.657857	1.331070	0.016171	0.158939	0.035641	0.002745	0.001542	0.098547	0.000475	0.009562	0.005432	0.001522	0.015224
12-Nov-2027	0.019307	9.922480	15.560100	2.429960	34.783008	1.335870	0.016230	0.159513	0.035770	0.002755	0.001547	0.098903	0.000476	0.009596	0.005452	0.001528	0.015279
13-Nov-2027	0.019455	9.953980	15.609400	2.437700	34.893537	1.340100	0.016281	0.160019	0.035885	0.002764	0.001552	0.099219	0.000478	0.009627	0.005469	0.001533	0.015328
14-Nov-2027	0.019623	9.991960	15.668800	2.447060	35.026917	1.345180	0.016343	0.160629	0.036023	0.002774	0.001558	0.099618	0.000480	0.009664	0.005490	0.001539	0.015386
15-Nov-2027	0.019718	10.032400	15.731400	2.457210	35.169694	1.350500	0.016409	0.161272	0.036172	0.002786	0.001565	0.100044	0.000482	0.009703	0.005512	0.001545	0.015448
16-Nov-2027	0.019516	10.084600	15.813000	2.470020	35.352789	1.357500	0.016494	0.162110	0.036360	0.002800	0.001573	0.100569	0.000484	0.009754	0.005540	0.001553	0.015528
17-Nov-2027	0.019199	10.159400	15.930400	2.488350	35.615047	1.367570	0.016616	0.163313	0.036630	0.002821	0.001585	0.101315	0.000488	0.009826	0.005582	0.001564	0.015644
18-Nov-2027	0.019044	10.236300	16.050700	2.507270	35.884979	1.377890	0.016742	0.164547	0.036909	0.002843	0.001597	0.102093	0.000491	0.009901	0.005624	0.001576	0.015762
19-Nov-2027	0.018952	10.287200	16.130300	2.519760	36.063510	1.384710	0.016825	0.165363	0.037092	0.002857	0.001605	0.102609	0.000494	0.009950	0.005652	0.001584	0.015840
20-Nov-2027	0.018876	10.334400	16.204500	2.531290	36.228849	1.391090	0.016902	0.166123	0.037261	0.002870	0.001612	0.103076	0.000496	0.009996	0.005678	0.001591	0.015913
21-Nov-2027	0.018802	10.389400	16.291000	2.544710	36.421448	1.398530	0.016993	0.167009	0.037459	0.002885	0.001621	0.103616	0.000499	0.010049	0.005708	0.001600	0.015998
22-Nov-2027	0.018652	10.463700	16.407300	2.562920	36.681963	1.408500	0.017114	0.168202	0.037727	0.002906	0.001632	0.104361	0.000502	0.010121	0.005749	0.001611	0.016112
23-Nov-2027	0.018558	10.512800	16.484200	2.575000	36.854312	1.415100	0.017194	0.168991	0.037904	0.002920	0.001640	0.104858	0.000505	0.010168	0.005776	0.001619	0.016188
24-Nov-2027	0.018436	10.554500	16.549700	2.585180	37.000358	1.420730	0.017262	0.169662	0.038054	0.002931	0.001646	0.105271	0.000507	0.010209	0.005799	0.001625	0.016252
25-Nov-2027	0.018265	10.603400	16.626200	2.597160	37.171795	1.427290	0.017342	0.170446	0.038230	0.002945	0.001654	0.105761	0.000509	0.010256	0.005825	0.001633	0.016327
26-Nov-2027	0.018142	10.661700	16.717500	2.611530	37.376545	1.435110	0.017438	0.171382	0.038441	0.002961	0.001663	0.106355	0.000512	0.010313	0.005857	0.001642	0.016417
27-Nov-2027	0.018109	10.691600	16.764300	2.618840	37.481308	1.439140	0.017486	0.171863	0.038548	0.002970	0.001668	0.106654	0.000513	0.010342	0.005874	0.001646	0.016463
28-Nov-2027	0.018083	10.724300	16.815800	2.626780	37.595657	1.443570	0.017540	0.172389	0.038665	0.002979	0.001673	0.106973	0.000515	0.010373	0.005892	0.001651	0.016513
29-Nov-2027	0.018094	10.762300	16.875300	2.636080	37.728841	1.448690	0.017602	0.173000	0.038802	0.002989	0.001679	0.107351	0.000517	0.010410	0.005913	0.001657	0.016571
30-Nov-2027	0.018055	10.797700	16.931000	2.644750	37.852937	1.453470	0.017660	0.173570	0.038929	0.002999	0.001684	0.107703	0.000518	0.010444	0.005932	0.001663	0.016626
1-Dec-2027	0.017961	10.823500	16.971600	2.651040	37.943262	1.456960	0.017702	0.173986	0.039021	0.003006	0.001688	0.107957	0.000519	0.010469	0.005946	0.001667	0.016666
2-Dec-2027	0.017978	10.864300	17.035400	2.661010	38.086196	1.462440	0.017769	0.174640	0.039168	0.003017	0.001695	0.108363	0.000521	0.010508	0.005969	0.001673	0.016729
3-Dec-2027	0.017956	10.912400	17.110900	2.672810	38.254894	1.468920	0.017848	0.175414	0.039342	0.003031	0.001702	0.108846	0.000524	0.010555	0.005995	0.001680	0.016803
4-Dec-2027	0.017911	10.938300	17.151600	2.679140	38.345634	1.472420	0.017890	0.175831	0.039434	0.003038	0.001706	0.109102	0.000525	0.010580	0.006010	0.001684	0.016843
5-Dec-2027	0.017882	10.972800	17.205800	2.687570	38.466495	1.477080	0.017947	0.176386	0.039558	0.003048	0.001712	0.109444	0.000527	0.010613	0.006028	0.001690	0.016896
6-Dec-2027	0.017903	11.006900	17.259200	2.695900	38.585946	1.481660	0.018002	0.176933	0.039681	0.003057	0.001717	0.109782	0.000528	0.010646	0.006047	0.001695	0.016948
7-Dec-2027	0.017900	11.043100	17.315900	2.704750	38.712781	1.486540	0.018061	0.177515	0.039811	0.003067	0.001723	0.110143	0.000530	0.010681	0.006067	0.001700	0.017004
8-Dec-2027	0.017830	11.064500	17.349600	2.709990	38.787795	1.489430	0.018097	0.177860	0.039889	0.003073	0.001726	0.110355	0.000531	0.010702	0.006079	0.001704	0.017037
9-Dec-2027	0.017815	11.086300	17.383800	2.715320	38.864179	1.492370	0.018132	0.178211	0.039967	0.003079	0.001729	0.110570	0.000532	0.010723	0.006091	0.001707	0.017070
10-Dec-2027	0.017833	11.110000	17.421000	2.721140	38.947325	1.495560	0.018171	0.178592	0.040053	0.003086	0.001733	0.110807	0.000533	0.010746	0.006104	0.001711	0.017107
11-Dec-2027	0.017794	11.048100	17.323900	2.705980	38.730331	1.487220	0.018070	0.177597	0.039829	0.003068	0.001723	0.110191	0.000530	0.010686	0.006070	0.001701	0.017012
12-Dec-2027	0.017758	11.094100	17.396000	2.717230	38.891521	1.493420	0.018145	0.178336	0.039995	0.003081	0.001730	0.110649	0.000532	0.010730	0.006095	0.001708	0.017082
13-Dec-2027	0.017748	11.149100	17.482200	2.730710	39.084366	1.500820	0.018235	0.179220	0.040193	0.003097	0.001739	0.111199	0.000535	0.010784	0.006125	0.001717	0.017167
14-Dec-2027	0.017693	11.195800	17.555400	2.742150	39.248086	1.507100	0.018311	0.179970	0.040362	0.003110	0.001746	0.111665	0.000537	0.010829	0.006151	0.001724	0.017239
15-Dec-2027	0.017676	11.246400	17.634700	2.754530	39.425415	1.513910	0.018394	0.180783	0.040544	0.003124	0.001754	0.112169	0.000540	0.010878	0.006179	0.001732	0.017317
16-Dec-2027	0.017696	11.300700	17.719900	2.767840	39.615813	1.521220	0.018483	0.181656	0.040740	0.003139	0.001763	0.112711	0.000542	0.010930	0.006209	0.001740	0.017400
17-Dec-2027	0.017628	11.340300	17.782000	2.777540	39.754639	1.526550	0.018548	0.182293	0.040882	0.003150	0.001769	0.113107	0.000544	0.010968	0.006230	0.001746	0.017461
18-Dec-2027	0.017630	11.377900	17.840900	2.786740	39.886412	1.531610	0.018609	0.182897	0.041018	0.003160	0.001775	0.113482	0.000546	0.011005	0.006251	0.001752	0.017519
19-Dec-2027	0.017625	11.424700	17.914400	2.798220	40.050546	1.537920	0.018686	0.183650	0.041187	0.003173	0.001782	0.113950	0.000548	0.011050	0.006277	0.001759	0.017591
20-Dec-2027	0.017622	11.479400	18.000200	2.811620	40.242313	1.545290	0.018775	0.184529	0.041384	0.003188	0.001791	0.114495	0.000551	0.011103	0.006307	0.001768	0.017676

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21-Dec-2027	0.017614	11.460400	17.970400	2.806960	40.175680	1.542720	0.018744	0.184224	0.041315	0.003183	0.001788	0.114305	0.000550	0.011085	0.006296	0.001765	0.017646
22-Dec-2027	0.017605	11.507400	18.044100	2.818470	40.340437	1.549060	0.018821	0.184980	0.041485	0.003196	0.001795	0.114774	0.000552	0.011130	0.006322	0.001772	0.017719
23-Dec-2027	0.017586	11.555100	18.118700	2.830160	40.507684	1.555460	0.018899	0.185745	0.041657	0.003209	0.001802	0.115252	0.000555	0.011176	0.006348	0.001779	0.017792
24-Dec-2027	0.017583	11.612400	18.208600	2.844220	40.708661	1.563170	0.018993	0.186666	0.041864	0.003225	0.001811	0.115826	0.000557	0.011232	0.006380	0.001788	0.017880
25-Dec-2027	0.017556	11.651700	18.270200	2.853850	40.846449	1.568460	0.019057	0.187298	0.042005	0.003236	0.001818	0.116219	0.000559	0.011270	0.006401	0.001794	0.017941
26-Dec-2027	0.017513	11.700800	18.347000	2.865880	41.018591	1.575050	0.019137	0.188086	0.042182	0.003250	0.001825	0.116711	0.000562	0.011317	0.006428	0.001802	0.018016
27-Dec-2027	0.017494	11.750200	18.424600	2.878010	41.191895	1.581700	0.019218	0.188880	0.042361	0.003264	0.001833	0.117207	0.000564	0.011365	0.006456	0.001809	0.018093
28-Dec-2027	0.017477	11.782300	18.474900	2.885860	41.304375	1.586020	0.019270	0.189396	0.042476	0.003273	0.001838	0.117526	0.000566	0.011396	0.006473	0.001814	0.018142
29-Dec-2027	0.017429	11.821900	18.536900	2.895570	41.443242	1.591350	0.019335	0.190032	0.042619	0.003284	0.001844	0.117923	0.000567	0.011434	0.006495	0.001820	0.018203
30-Dec-2027	0.017417	11.887800	18.640200	2.911730	41.674341	1.600210	0.019443	0.191091	0.042856	0.003302	0.001854	0.118583	0.000571	0.011498	0.006531	0.001830	0.018304
31-Dec-2027	0.017411	11.957100	18.748900	2.928700	41.917265	1.609540	0.019556	0.192205	0.043106	0.003321	0.001865	0.119275	0.000574	0.011565	0.006569	0.001841	0.018411
1-Jan-2028	0.017361	12.015200	18.840000	2.942940	42.120981	1.617360	0.019651	0.193139	0.043316	0.003337	0.001874	0.119856	0.000577	0.011622	0.006601	0.001850	0.018501
2-Jan-2028	0.017356	12.120900	19.005700	2.968860	42.491653	1.631580	0.019824	0.194838	0.043697	0.003367	0.001891	0.120914	0.000582	0.011724	0.006659	0.001866	0.018663
3-Jan-2028	0.017356	12.178900	19.096500	2.983040	42.694872	1.639380	0.019919	0.195769	0.043906	0.003383	0.001900	0.121491	0.000585	0.011780	0.006691	0.001875	0.018752
4-Jan-2028	0.017304	12.201300	19.131600	2.988540	42.773454	1.642390	0.019955	0.196128	0.043986	0.003389	0.001903	0.121717	0.000586	0.011802	0.006703	0.001879	0.018787
5-Jan-2028	0.017287	12.233700	19.182400	2.996540	42.887301	1.646740	0.020008	0.196650	0.044104	0.003398	0.001908	0.122047	0.000587	0.011833	0.006721	0.001884	0.018837
6-Jan-2028	0.017286	12.271400	19.241600	3.005750	43.019364	1.651820	0.020070	0.197256	0.044239	0.003409	0.001914	0.122421	0.000589	0.011870	0.006742	0.001889	0.018895
7-Jan-2028	0.017268	12.319800	19.317500	3.017600	43.189017	1.658340	0.020149	0.198034	0.044414	0.003422	0.001922	0.122904	0.000591	0.011916	0.006768	0.001897	0.018969
8-Jan-2028	0.017268	12.362400	19.384100	3.028070	43.338505	1.664050	0.020219	0.198717	0.044568	0.003434	0.001929	0.123334	0.000593	0.011958	0.006792	0.001903	0.019035
9-Jan-2028	0.017282	12.396900	19.438100	3.036530	43.459490	1.668690	0.020275	0.199272	0.044692	0.003444	0.001934	0.123679	0.000595	0.011991	0.006811	0.001909	0.019088
10-Jan-2028	0.017258	12.446600	19.516000	3.048700	43.633707	1.675370	0.020356	0.200070	0.044871	0.003457	0.001942	0.124176	0.000597	0.012039	0.006838	0.001916	0.019164
11-Jan-2028	0.017249	12.494600	19.591200	3.060520	43.802238	1.681820	0.020435	0.200841	0.045045	0.003471	0.001949	0.124661	0.000600	0.012086	0.006864	0.001924	0.019238
12-Jan-2028	0.017250	12.525100	19.639000	3.067970	43.909075	1.685920	0.020485	0.201331	0.045155	0.003479	0.001954	0.124964	0.000601	0.012115	0.006881	0.001929	0.019285
13-Jan-2028	0.017229	12.411100	19.459800	3.040190	43.510019	1.670500	0.020298	0.199495	0.044746	0.003448	0.001936	0.123847	0.000596	0.012005	0.006818	0.001911	0.019110
14-Jan-2028	0.017207	12.440600	19.506300	3.047360	43.613207	1.674510	0.020347	0.199971	0.044851	0.003456	0.001941	0.124134	0.000597	0.012034	0.006835	0.001916	0.019155
15-Jan-2028	0.017214	12.516500	19.625000	3.066020	43.879571	1.684680	0.020470	0.201188	0.045126	0.003477	0.001953	0.124901	0.000601	0.012107	0.006876	0.001927	0.019272
16-Jan-2028	0.017221	12.552300	19.681000	3.074850	44.005325	1.689470	0.020529	0.201763	0.045256	0.003487	0.001959	0.125265	0.000602	0.012142	0.006896	0.001933	0.019327
17-Jan-2028	0.017187	12.579200	19.723200	3.081390	44.099426	1.693110	0.020573	0.202195	0.045351	0.003495	0.001963	0.125529	0.000604	0.012168	0.006911	0.001937	0.019368
18-Jan-2028	0.017177	12.646300	19.828900	3.097720	44.334222	1.702210	0.020683	0.203278	0.045592	0.003513	0.001973	0.126183	0.000607	0.012233	0.006948	0.001947	0.019472
19-Jan-2028	0.017188	12.739200	19.974500	3.120460	44.659837	1.714710	0.020835	0.204771	0.045927	0.003539	0.001987	0.127108	0.000611	0.012322	0.006999	0.001961	0.019615
20-Jan-2028	0.017169	12.841300	20.134700	3.145470	45.017772	1.728470	0.021002	0.206413	0.046295	0.003567	0.002003	0.128127	0.000616	0.012421	0.007055	0.001977	0.019772
21-Jan-2028	0.017139	12.948200	20.302300	3.171660	45.392551	1.742850	0.021177	0.208131	0.046680	0.003597	0.002020	0.129194	0.000621	0.012525	0.007114	0.001994	0.019937
22-Jan-2028	0.017125	13.084900	20.517000	3.204990	45.871144	1.761320	0.021401	0.210331	0.047171	0.003635	0.002041	0.130539	0.000628	0.012656	0.007189	0.002015	0.020147
23-Jan-2028	0.017130	13.242000	20.763200	3.243520	46.422089	1.782450	0.021657	0.212855	0.047738	0.003678	0.002066	0.132112	0.000636	0.012808	0.007275	0.002039	0.020389
24-Jan-2028	0.017115	13.380000	20.979600	3.277350	46.905987	1.801010	0.021883	0.215073	0.048236	0.003717	0.002087	0.133493	0.000642	0.012942	0.007351	0.002060	0.020602
25-Jan-2028	0.017107	13.488800	21.150100	3.303990	47.287364	1.815660	0.022061	0.216822	0.048628	0.003747	0.002104	0.134578	0.000647	0.013047	0.007411	0.002077	0.020769
26-Jan-2028	0.017084	13.587600	21.305100	3.328170	47.633641	1.828960	0.022223	0.218410	0.048984	0.003774	0.002120	0.135562	0.000652	0.013143	0.007465	0.002092	0.020921
27-Jan-2028	0.017048	13.661500	21.421000	3.346300	47.892829	1.838910	0.022343	0.219598	0.049250	0.003795	0.002131	0.136302	0.000656	0.013214	0.007506	0.002104	0.021035
28-Jan-2028	0.017027	13.702700	21.485500	3.356380	48.037215	1.844450	0.022411	0.220260	0.049398	0.003806	0.002138	0.136712	0.000658	0.013254	0.007528	0.002110	0.021098
29-Jan-2028	0.017022	13.758500	21.573000	3.370080	48.232964	1.851960	0.022502	0.221157	0.049600	0.003822	0.002146	0.137273	0.000660	0.013308	0.007559	0.002118	0.021184
30-Jan-2028	0.017013	13.827700	21.681400	3.387050	48.475639	1.861260	0.022615	0.222269	0.049850	0.003841	0.002157	0.137965	0.000664	0.013375	0.007597	0.002129	0.021291
31-Jan-2028	0.017000	13.892600	21.783100	3.402940	48.703129	1.869990	0.022721	0.223311	0.050084	0.003859	0.002167	0.138613	0.000667	0.013438	0.007632	0.002139	0.021391
1-Feb-2028	0.016990	13.943900	21.863700	3.415520	48.883030	1.876900	0.022805	0.224137	0.050269	0.003874	0.002175	0.139126	0.000669	0.013488	0.007661	0.002147	0.021470
2-Feb-2028	0.016980	13.991400	21.938100	3.427150	49.049530	1.883290	0.022883	0.224900	0.050440	0.003887	0.002183	0.139600	0.000672	0.013533	0.007687	0.002154	0.021543
3-Feb-2028	0.016972	14.042200	22.017700	3.439590	49.227605	1.890130	0.022966	0.225716	0.050623	0.003901	0.002191	0.140107	0.000674	0.013583	0.007715	0.002162	0.021621
4-Feb-2028	0.016966	14.087700	22.089100	3.450740	49.387134	1.896250	0.023040	0.226447	0.050787	0.003914	0.002198	0.140561	0.000676	0.013627	0.007740	0.002169	0.021691
5-Feb-2028	0.016961	14.129600	22.154700	3.460990	49.533968	1.901880	0.023109	0.227120	0.050938	0.003925	0.002204	0.140979	0.000678	0.013667	0.007763	0.002176	0.021756
6-Feb-2028	0.016956	14.167600	22.214200	3.470290	49.667151	1.907000	0.023171	0.227731	0.051075	0.003936	0.002210	0.141359	0.000680	0.013704	0.007784	0.002181	0.021814
7-Feb-2028	0.016950	14.053300	22.035100	3.442320	49.266564	1.891610	0.022984	0.225894	0.050663	0.003904	0.002192	0.140220	0.000674	0.013593	0.007721	0.002164	0.021638
8-Feb-2028	0.016947	14.080800	22.078100	3.449040	49.362904	1.895310	0.023029	0.226335	0.050762	0.003912	0.002197	0.140494	0.000676	0.013620	0.007736	0.002168	0.021681
9-Feb-2028	0.016943	14.121000	22.141200	3.458890	49.503846	1.900720	0.023095	0.226982	0.050907	0.003923	0.002203	0.140895	0.000678	0.013659	0.007758	0.002174	0.021742
10-Feb-2028	0.016939	14.167600	22.214300	3.470310	49.667234	1.907000	0.023171	0.227731	0.051075	0.003936	0.002210	0.141360	0.000680	0.013704	0.007784	0.002181	0.021814

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Feb-2028	0.016935	14.214800	22.288300	3.481870	49.832696	1.913360	0.023248	0.228490	0.051245	0.003949	0.002218	0.141831	0.000682	0.013750	0.007810	0.002189	0.021887
12-Feb-2028	0.016931	14.272600	22.379000	3.496040	50.035375	1.921140	0.023343	0.229420	0.051453	0.003965	0.002227	0.142408	0.000685	0.013805	0.007841	0.002198	0.021976
13-Feb-2028	0.016929	14.218400	22.293900	3.482730	49.845227	1.913840	0.023254	0.228547	0.051257	0.003950	0.002218	0.141866	0.000682	0.013753	0.007811	0.002189	0.021892
14-Feb-2028	0.016926	14.281500	22.392900	3.498190	50.066452	1.922330	0.023357	0.229562	0.051485	0.003967	0.002228	0.142496	0.000685	0.013814	0.007846	0.002199	0.021990
15-Feb-2028	0.016924	14.343100	22.489500	3.513280	50.282408	1.930620	0.023458	0.230552	0.051707	0.003984	0.002238	0.143110	0.000688	0.013874	0.007880	0.002208	0.022084
16-Feb-2028	0.016921	14.406400	22.588700	3.528780	50.504297	1.939150	0.023562	0.231569	0.051935	0.004002	0.002247	0.143742	0.000691	0.013935	0.007915	0.002218	0.022182
17-Feb-2028	0.016918	14.470000	22.688500	3.544370	50.727306	1.947710	0.023666	0.232593	0.052165	0.004020	0.002257	0.144377	0.000694	0.013996	0.007950	0.002228	0.022280
18-Feb-2028	0.016915	14.535100	22.790600	3.560320	50.955542	1.956480	0.023772	0.233639	0.052399	0.004038	0.002268	0.145026	0.000698	0.014059	0.007986	0.002238	0.022380
19-Feb-2028	0.016912	14.600400	22.893000	3.576310	51.184443	1.965270	0.023879	0.234688	0.052634	0.004056	0.002278	0.145677	0.000701	0.014122	0.008021	0.002248	0.022481
20-Feb-2028	0.016909	14.663900	22.992500	3.591850	51.406997	1.973810	0.023983	0.235709	0.052863	0.004074	0.002288	0.146310	0.000704	0.014184	0.008056	0.002258	0.022578
21-Feb-2028	0.016906	14.725800	23.089600	3.607010	51.623990	1.982140	0.024084	0.236704	0.053086	0.004091	0.002297	0.146928	0.000707	0.014244	0.008090	0.002267	0.022674
22-Feb-2028	0.016902	14.789700	23.189700	3.622660	51.847995	1.990740	0.024188	0.237730	0.053317	0.004109	0.002307	0.147565	0.000710	0.014306	0.008125	0.002277	0.022772
23-Feb-2028	0.016899	14.856500	23.294500	3.639020	52.082165	1.999740	0.024298	0.238805	0.053557	0.004127	0.002318	0.148231	0.000713	0.014370	0.008162	0.002287	0.022875
24-Feb-2028	0.016897	14.922700	23.398300	3.655240	52.314260	2.008650	0.024406	0.239869	0.053796	0.004145	0.002328	0.148892	0.000716	0.014434	0.008198	0.002298	0.022977
25-Feb-2028	0.016894	14.991100	23.505600	3.671990	52.554032	2.017860	0.024518	0.240969	0.054043	0.004164	0.002339	0.149574	0.000719	0.014500	0.008236	0.002308	0.023082
26-Feb-2028	0.016892	15.064900	23.621300	3.690060	52.812722	2.027790	0.024639	0.242154	0.054308	0.004185	0.002350	0.150310	0.000723	0.014572	0.008277	0.002320	0.023196
27-Feb-2028	0.016889	15.103100	23.681300	3.699430	52.946693	2.032940	0.024701	0.242769	0.054446	0.004196	0.002356	0.150691	0.000725	0.014609	0.008298	0.002325	0.023255
28-Feb-2028	0.016886	15.182000	23.804900	3.718740	53.223225	2.043560	0.024830	0.244037	0.054731	0.004218	0.002368	0.151478	0.000729	0.014685	0.008341	0.002338	0.023376
29-Feb-2028	0.016884	15.254000	23.917800	3.736380	53.475651	2.053250	0.024948	0.245194	0.054990	0.004238	0.002380	0.152196	0.000732	0.014755	0.008380	0.002349	0.023487
1-Mar-2028	0.016882	15.302700	23.994200	3.748300	53.646341	2.059810	0.025027	0.245977	0.055166	0.004251	0.002387	0.152682	0.000734	0.014802	0.008407	0.002356	0.023562
2-Mar-2028	0.016880	15.360000	24.084100	3.762340	53.847236	2.067520	0.025121	0.246899	0.055372	0.004267	0.002396	0.153254	0.000737	0.014857	0.008439	0.002365	0.023650
3-Mar-2028	0.016879	15.434500	24.200900	3.780590	54.108416	2.077550	0.025243	0.248096	0.055641	0.004288	0.002408	0.153997	0.000741	0.014929	0.008480	0.002376	0.023765
4-Mar-2028	0.016878	15.521500	24.337200	3.801890	54.413369	2.089260	0.025385	0.249494	0.055954	0.004312	0.002421	0.154864	0.000745	0.015013	0.008527	0.002390	0.023899
5-Mar-2028	0.016876	15.616200	24.485800	3.825090	54.745372	2.102010	0.025540	0.251017	0.056296	0.004338	0.002436	0.155810	0.000749	0.015105	0.008579	0.002404	0.024045
6-Mar-2028	0.016875	15.706000	24.626600	3.847080	55.060157	2.114090	0.025687	0.252460	0.056619	0.004363	0.002450	0.156705	0.000754	0.015192	0.008629	0.002418	0.024183
7-Mar-2028	0.016875	15.791800	24.761100	3.868100	55.360960	2.125640	0.025827	0.253839	0.056929	0.004387	0.002464	0.157561	0.000758	0.015275	0.008676	0.002431	0.024315
8-Mar-2028	0.016874	15.879600	24.898800	3.889610	55.668775	2.137470	0.025971	0.255251	0.057245	0.004411	0.002477	0.158438	0.000762	0.015360	0.008724	0.002445	0.024450
9-Mar-2028	0.016873	15.972600	25.044600	3.912390	55.994804	2.149990	0.026123	0.256746	0.057581	0.004437	0.002492	0.159365	0.000767	0.015450	0.008775	0.002459	0.024593
10-Mar-2028	0.016871	16.071800	25.200200	3.936700	56.342615	2.163340	0.026285	0.258341	0.057938	0.004465	0.002507	0.160355	0.000771	0.015546	0.008830	0.002475	0.024746
11-Mar-2028	0.016870	16.171800	25.357000	3.961190	56.693165	2.176810	0.026449	0.259948	0.058299	0.004492	0.002523	0.161353	0.000776	0.015642	0.008885	0.002490	0.024900
12-Mar-2028	0.016869	16.270200	25.511300	3.985280	57.038072	2.190040	0.026610	0.261529	0.058653	0.004520	0.002538	0.162334	0.000781	0.015737	0.008939	0.002505	0.025052
13-Mar-2028	0.016869	16.362800	25.656500	4.007970	57.362732	2.202520	0.026761	0.263019	0.058987	0.004546	0.002553	0.163258	0.000785	0.015827	0.008990	0.002519	0.025194
14-Mar-2028	0.016868	16.461500	25.811300	4.032140	57.708718	2.215800	0.026923	0.264605	0.059343	0.004573	0.002568	0.164243	0.000790	0.015923	0.009044	0.002535	0.025346
15-Mar-2028	0.016868	16.571300	25.983400	4.059030	58.093622	2.230580	0.027102	0.266369	0.059739	0.004603	0.002585	0.165338	0.000795	0.016029	0.009104	0.002552	0.025515
16-Mar-2028	0.016867	16.686500	26.164000	4.087240	58.497445	2.246080	0.027291	0.268221	0.060154	0.004635	0.002603	0.166487	0.000801	0.016140	0.009167	0.002569	0.025693
17-Mar-2028	0.016867	16.807300	26.353400	4.116830	58.920934	2.262340	0.027488	0.270163	0.060589	0.004669	0.002622	0.167692	0.000807	0.016257	0.009234	0.002588	0.025879
18-Mar-2028	0.016867	16.934600	26.553100	4.148030	59.367284	2.279480	0.027697	0.272210	0.061048	0.004704	0.002642	0.168963	0.000813	0.016380	0.009304	0.002607	0.026075
19-Mar-2028	0.016867	17.068100	26.762300	4.180710	59.835209	2.297450	0.027915	0.274355	0.061529	0.004741	0.002663	0.170294	0.000819	0.016509	0.009377	0.002628	0.026280
20-Mar-2028	0.016867	17.209600	26.984300	4.215380	60.331306	2.316500	0.028146	0.276630	0.062040	0.004781	0.002685	0.171707	0.000826	0.016646	0.009455	0.002650	0.026498
21-Mar-2028	0.016867	17.360400	27.220600	4.252300	60.859890	2.336790	0.028393	0.279053	0.062583	0.004823	0.002708	0.173210	0.000833	0.016792	0.009538	0.002673	0.026730
22-Mar-2028	0.016867	17.518800	27.469100	4.291120	61.415276	2.358120	0.028652	0.281600	0.063154	0.004867	0.002733	0.174792	0.000841	0.016945	0.009625	0.002697	0.026974
23-Mar-2028	0.016867	17.684400	27.728800	4.331680	61.995805	2.380410	0.028923	0.284262	0.063751	0.004913	0.002759	0.176444	0.000849	0.017105	0.009716	0.002723	0.027229
24-Mar-2028	0.016867	17.857400	28.000000	4.374050	62.602266	2.403690	0.029206	0.287043	0.064375	0.004961	0.002786	0.178170	0.000857	0.017273	0.009811	0.002750	0.027495
25-Mar-2028	0.016867	18.037700	28.282700	4.418210	63.234326	2.427960	0.029501	0.289940	0.065025	0.005011	0.002814	0.179968	0.000866	0.017447	0.009910	0.002777	0.027773
26-Mar-2028	0.016867	18.225200	28.576700	4.464150	63.891694	2.453210	0.029807	0.292955	0.065701	0.005063	0.002843	0.181840	0.000875	0.017629	0.010013	0.002806	0.028062
27-Mar-2028	0.016867	18.420000	28.882200	4.511860	64.574579	2.479430	0.030126	0.296086	0.066403	0.005117	0.002874	0.183783	0.000884	0.017817	0.010120	0.002836	0.028362
28-Mar-2028	0.016867	18.621700	29.198300	4.561250	65.281612	2.506570	0.030456	0.299327	0.067130	0.005173	0.002905	0.185795	0.000894	0.018012	0.010231	0.002867	0.028672
29-Mar-2028	0.016867	18.830000	29.525000	4.612280	66.011879	2.534610	0.030796	0.302676	0.067881	0.005231	0.002937	0.187873	0.000904	0.018213	0.010345	0.002899	0.028993
30-Mar-2028	0.016867	19.045900	29.863600	4.665170	66.768782	2.563680	0.031150	0.306147	0.068660	0.005291	0.002971	0.190028	0.000914	0.018422	0.010464	0.002933	0.029325
31-Mar-2028	0.016866	19.269800	30.214700	4.720020	67.553733	2.593810	0.031516	0.309746	0.069467	0.005353	0.003006	0.192262	0.000925	0.018639	0.010587	0.002967	0.029670
1-Apr-2028	0.016866	19.499900	30.575300	4.776360	68.360301	2.624770	0.031892	0.313443	0.070296	0.005417	0.003042	0.194557	0.000936	0.018861	0.010713	0.003002	0.030024
2-Apr-2028	0.016866	19.685700	30.866700	4.821870	69.011654	2.649790	0.032196	0.316430	0.070966	0.005469	0.003071	0.196411	0.000945	0.019041	0.010815	0.003031	0.030310

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
3-Apr-2028	0.016866	19.806500	31.056200	4.851470	69.435184	2.666050	0.032394	0.318373	0.071401	0.005502	0.003090	0.197617	0.000951	0.019158	0.010882	0.003050	0.030497
4-Apr-2028	0.016866	19.894000	31.193300	4.872900	69.741920	2.677830	0.032537	0.319779	0.071717	0.005526	0.003103	0.198489	0.000955	0.019243	0.010930	0.003063	0.030631
5-Apr-2028	0.016866	19.960800	31.298100	4.889270	69.976131	2.686830	0.032646	0.320854	0.071958	0.005545	0.003114	0.199156	0.000958	0.019307	0.010966	0.003073	0.030734
6-Apr-2028	0.016865	20.013300	31.380400	4.902130	70.160181	2.693890	0.032732	0.321697	0.072147	0.005560	0.003122	0.199680	0.000961	0.019358	0.010995	0.003081	0.030815
7-Apr-2028	0.016865	20.055500	31.446600	4.912460	70.308094	2.699570	0.032801	0.322375	0.072299	0.005571	0.003129	0.200101	0.000963	0.019399	0.011018	0.003088	0.030880
8-Apr-2028	0.016865	20.090200	31.500900	4.920950	70.429702	2.704230	0.032857	0.322932	0.072424	0.005581	0.003134	0.200447	0.000964	0.019432	0.011037	0.003093	0.030933
9-Apr-2028	0.016866	20.119200	31.546400	4.928050	70.531352	2.708140	0.032905	0.323398	0.072528	0.005589	0.003139	0.200736	0.000966	0.019460	0.011053	0.003098	0.030978
10-Apr-2028	0.016866	20.143800	31.585000	4.934080	70.617610	2.711450	0.032945	0.323794	0.072617	0.005596	0.003142	0.200982	0.000967	0.019484	0.011067	0.003102	0.031016
11-Apr-2028	0.016866	20.162700	31.614700	4.938720	70.683911	2.714000	0.032976	0.324099	0.072686	0.005601	0.003145	0.201171	0.000968	0.019503	0.011077	0.003105	0.031045
12-Apr-2028	0.016866	20.179900	31.641600	4.942930	70.744196	2.716320	0.033004	0.324375	0.072747	0.005606	0.003148	0.201342	0.000969	0.019519	0.011087	0.003107	0.031071
13-Apr-2028	0.016866	20.194900	31.665200	4.946610	70.796805	2.718340	0.033029	0.324616	0.072802	0.005610	0.003150	0.201492	0.000969	0.019534	0.011095	0.003109	0.031095
14-Apr-2028	0.016866	20.208100	31.685800	4.949840	70.843067	2.720110	0.033050	0.324828	0.072849	0.005614	0.003152	0.201623	0.000970	0.019546	0.011102	0.003111	0.031115
15-Apr-2028	0.016866	20.219900	31.704300	4.952730	70.884432	2.721700	0.033070	0.325018	0.072892	0.005617	0.003154	0.201741	0.000970	0.019558	0.011109	0.003113	0.031133
16-Apr-2028	0.016866	20.230700	31.721300	4.955380	70.922313	2.723150	0.033087	0.325192	0.072931	0.005620	0.003156	0.201849	0.000971	0.019568	0.011115	0.003115	0.031150
17-Apr-2028	0.016866	20.240600	31.736800	4.957800	70.956999	2.724490	0.033103	0.325351	0.072966	0.005623	0.003158	0.201948	0.000971	0.019578	0.011120	0.003116	0.031165
18-Apr-2028	0.016866	20.249700	31.751000	4.960020	70.988863	2.725710	0.033118	0.325496	0.072999	0.005625	0.003159	0.202038	0.000972	0.019587	0.011125	0.003118	0.031179
19-Apr-2028	0.016866	20.258100	31.764200	4.962080	71.018321	2.726840	0.033132	0.325631	0.073029	0.005628	0.003160	0.202122	0.000972	0.019595	0.011130	0.003119	0.031192
20-Apr-2028	0.016866	20.266000	31.776600	4.964020	71.046036	2.727900	0.033145	0.325759	0.073058	0.005630	0.003162	0.202201	0.000973	0.019602	0.011134	0.003120	0.031204
21-Apr-2028	0.016866	20.273500	31.788400	4.965860	71.072341	2.728910	0.033157	0.325880	0.073085	0.005632	0.003163	0.202276	0.000973	0.019610	0.011138	0.003122	0.031216
22-Apr-2028	0.016866	20.280600	31.799600	4.967600	71.097235	2.729870	0.033169	0.325994	0.073111	0.005634	0.003164	0.202347	0.000973	0.019617	0.011142	0.003123	0.031227
23-Apr-2028	0.016866	20.287400	31.810100	4.969260	71.121050	2.730780	0.033180	0.326102	0.073135	0.005636	0.003165	0.202414	0.000974	0.019623	0.011146	0.003124	0.031237
24-Apr-2028	0.016866	20.293900	31.820300	4.970840	71.143787	2.731650	0.033191	0.326206	0.073158	0.005638	0.003166	0.202479	0.000974	0.019629	0.011149	0.003125	0.031247
25-Apr-2028	0.016866	20.300100	31.830000	4.972370	71.165569	2.732490	0.033201	0.326306	0.073181	0.005639	0.003167	0.202541	0.000974	0.019635	0.011153	0.003126	0.031257
26-Apr-2028	0.016866	20.306100	31.839500	4.973840	71.186605	2.733300	0.033211	0.326403	0.073202	0.005641	0.003168	0.202601	0.000975	0.019641	0.011156	0.003127	0.031266
27-Apr-2028	0.016865	20.311900	31.848500	4.975250	71.206894	2.734080	0.033220	0.326496	0.073223	0.005643	0.003169	0.202659	0.000975	0.019647	0.011159	0.003127	0.031275
28-Apr-2028	0.016865	20.317300	31.857000	4.976580	71.225855	2.734800	0.033229	0.326583	0.073243	0.005644	0.003170	0.202713	0.000975	0.019652	0.011162	0.003128	0.031283
29-Apr-2028	0.016890	20.322100	31.864600	4.977760	71.242699	2.735450	0.033237	0.326660	0.073260	0.005645	0.003170	0.202761	0.000975	0.019657	0.011165	0.003129	0.031290
30-Apr-2028	0.017147	20.321400	31.863500	4.977600	71.240293	2.735360	0.033236	0.326650	0.073258	0.005645	0.003170	0.202754	0.000975	0.019656	0.011165	0.003129	0.031289
1-May-2028	0.018613	20.293300	31.819400	4.970700	71.141713	2.731570	0.033190	0.326197	0.073156	0.005637	0.003166	0.202473	0.000974	0.019629	0.011149	0.003125	0.031246
2-May-2028	0.024389	20.117000	31.542900	4.927510	70.523635	2.707840	0.032901	0.323363	0.072520	0.005588	0.003138	0.200714	0.000966	0.019458	0.011052	0.003097	0.030975
3-May-2028	0.032009	19.784300	31.021400	4.846040	69.357390	2.663070	0.032357	0.318016	0.071321	0.005496	0.003086	0.197395	0.000950	0.019137	0.010869	0.003046	0.030462
4-May-2028	0.037245	19.385200	30.395600	4.748280	67.958261	2.609350	0.031705	0.311601	0.069883	0.005385	0.003024	0.193413	0.000930	0.018751	0.010650	0.002985	0.029848
5-May-2028	0.044027	18.943500	29.702900	4.640080	66.409769	2.549890	0.030982	0.304500	0.068290	0.005262	0.002955	0.189006	0.000909	0.018323	0.010408	0.002917	0.029168
6-May-2028	0.050235	18.540300	29.070700	4.541310	64.996244	2.495610	0.030323	0.298019	0.066837	0.005150	0.002892	0.184982	0.000890	0.017933	0.010186	0.002855	0.028547
7-May-2028	0.055171	18.190300	28.522000	4.455590	63.769299	2.448500	0.029750	0.292393	0.065575	0.005053	0.002838	0.181491	0.000873	0.017595	0.009994	0.002801	0.028008
8-May-2028	0.059775	17.873900	28.025800	4.378080	62.660062	2.405910	0.029233	0.287307	0.064434	0.004965	0.002788	0.178333	0.000858	0.017289	0.009820	0.002752	0.027521
9-May-2028	0.064373	17.558400	27.531100	4.300800	61.554019	2.363450	0.028717	0.282236	0.063297	0.004878	0.002739	0.175186	0.000843	0.016983	0.009646	0.002704	0.027035
10-May-2028	0.074062	17.429100	27.328500	4.269140	61.100781	2.346050	0.028505	0.280158	0.062831	0.004842	0.002719	0.173896	0.000837	0.016858	0.009575	0.002684	0.026836
11-May-2028	0.078614	17.168100	26.919200	4.205200	60.185759	2.310910	0.028078	0.275962	0.061890	0.004769	0.002678	0.171291	0.000824	0.016606	0.009432	0.002643	0.026434
12-May-2028	0.091943	16.913000	26.519100	4.142710	59.291441	2.276570	0.027661	0.271861	0.060970	0.004698	0.002638	0.168746	0.000812	0.016359	0.009292	0.002604	0.026041
13-May-2028	0.096860	16.676500	26.148400	4.084790	58.462386	2.244740	0.027274	0.268061	0.060118	0.004633	0.002602	0.166386	0.000800	0.016130	0.009162	0.002568	0.025677
14-May-2028	0.105596	16.092600	25.232800	3.941750	56.415349	2.166140	0.026319	0.258674	0.058013	0.004470	0.002510	0.160560	0.000772	0.015566	0.008841	0.002478	0.024778
15-May-2028	0.116622	15.415100	24.170600	3.775780	54.040167	2.074960	0.025211	0.247784	0.055570	0.004282	0.002405	0.153797	0.000740	0.014910	0.008469	0.002373	0.023735
16-May-2028	0.132409	15.319200	24.020200	3.752300	53.704014	2.062050	0.025055	0.246243	0.055224	0.004256	0.002390	0.152841	0.000735	0.014818	0.008416	0.002359	0.023587
17-May-2028	0.135726	15.200400	23.834000	3.723200	53.287536	2.046060	0.024860	0.244334	0.054796	0.004223	0.002371	0.151656	0.000730	0.014703	0.008351	0.002340	0.023404
18-May-2028	0.139612	15.050800	23.599400	3.686570	52.763143	2.025930	0.024616	0.241929	0.054257	0.004181	0.002348	0.150164	0.000722	0.014558	0.008269	0.002317	0.023174
19-May-2028	0.146737	14.864900	23.307900	3.641030	52.111417	2.000890	0.024311	0.238940	0.053587	0.004129	0.002319	0.148309	0.000713	0.014378	0.008167	0.002289	0.022888
20-May-2028	0.147162	14.530900	22.784000	3.559250	50.940649	1.955910	0.023765	0.233568	0.052385	0.004037	0.002267	0.144979	0.000697	0.014055	0.007983	0.002237	0.022373
21-May-2028	0.163725	14.206500	22.275300	3.479850	49.803653	1.912220	0.023234	0.228352	0.051218	0.003946	0.002216	0.141746	0.000682	0.013742	0.007805	0.002187	0.021874
22-May-2028	0.186036	13.959800	21.888500	3.419400	48.938710	1.879020	0.022831	0.224387	0.050327	0.003878	0.002178	0.139283	0.000670	0.013503	0.007669	0.002149	0.021494
23-May-2028	0.206531	13.648000	21.399400	3.343050	47.845736	1.837010	0.022320	0.219371	0.049205	0.003791	0.002129	0.136175	0.000655	0.013202	0.007498	0.002101	0.021014
24-May-2028	0.229514	13.487200	21.146300	3.303970	47.283287	1.815160	0.022056	0.216765	0.048641	0.003746	0.002105	0.134593	0.000647	0.013047	0.007410	0.002077	0.020765

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-May-2028	0.244761	12.902500	20.230300	3.160540	45.232646	1.736620	0.021101	0.207384	0.046521	0.003584	0.002013	0.128743	0.000619	0.012481	0.007089	0.001987	0.019866
26-May-2028	0.262875	12.578100	19.721500	3.081100	44.095486	1.692930	0.020570	0.202167	0.045353	0.003494	0.001963	0.125508	0.000604	0.012167	0.006910	0.001937	0.019366
27-May-2028	0.290338	12.440400	19.505400	3.047410	43.612913	1.674360	0.020344	0.199949	0.044859	0.003456	0.001941	0.124137	0.000597	0.012034	0.006835	0.001915	0.019154
28-May-2028	0.320788	12.346100	19.357500	3.024330	43.282403	1.661660	0.020190	0.198433	0.044519	0.003429	0.001926	0.123197	0.000592	0.011943	0.006783	0.001901	0.019009
29-May-2028	0.348199	12.240200	19.191600	2.998410	42.911232	1.647410	0.020017	0.196732	0.044137	0.003400	0.001910	0.122143	0.000587	0.011841	0.006725	0.001885	0.018846
30-May-2028	0.362773	12.123800	19.008700	2.969960	42.503424	1.631690	0.019826	0.194857	0.043718	0.003368	0.001892	0.120991	0.000582	0.011728	0.006661	0.001867	0.018666
31-May-2028	0.382225	12.028300	18.858700	2.946650	42.168970	1.618790	0.019670	0.193319	0.043376	0.003341	0.001877	0.120047	0.000577	0.011636	0.006608	0.001852	0.018519
1-Jun-2028	0.510718	11.929100	18.703000	2.922410	41.821447	1.605400	0.019507	0.191721	0.043021	0.003314	0.001862	0.119061	0.000572	0.011540	0.006554	0.001837	0.018366
2-Jun-2028	0.608505	11.738800	18.399300	2.877370	41.160793	1.578680	0.019189	0.188588	0.042419	0.003259	0.001835	0.117279	0.000563	0.011363	0.006448	0.001808	0.018076
3-Jun-2028	1.094000	11.558200	18.108100	2.835390	40.536961	1.552860	0.018883	0.185580	0.044588	0.003207	0.001812	0.115651	0.000554	0.011199	0.006348	0.001780	0.017801
4-Jun-2028	1.219234	11.397900	17.824400	2.805570	40.013894	1.526130	0.018580	0.182594	0.042567	0.003154	0.001817	0.115087	0.000545	0.011085	0.006255	0.001757	0.017570
5-Jun-2028	1.149272	11.159100	17.422400	2.755060	39.209610	1.488870	0.018154	0.178394	0.041805	0.003080	0.001794	0.113270	0.000532	0.010890	0.006120	0.001722	0.017216
6-Jun-2028	1.104585	11.001000	17.161200	2.720220	38.671363	1.464550	0.017878	0.175667	0.041370	0.003032	0.001775	0.111850	0.000524	0.010754	0.006031	0.001698	0.016979
7-Jun-2028	1.065034	10.764900	16.766500	2.669510	37.872997	1.427680	0.017459	0.171538	0.040986	0.002959	0.001755	0.110290	0.000511	0.010561	0.005898	0.001663	0.016627
8-Jun-2028	1.152016	10.586900	16.467200	2.631770	37.273118	1.399510	0.017140	0.168394	0.040859	0.002904	0.001736	0.108808	0.000501	0.010411	0.005797	0.001636	0.016362
9-Jun-2028	1.367702	10.380500	16.116900	2.588960	36.581446	1.366240	0.016765	0.164680	0.040793	0.002839	0.001718	0.107341	0.000490	0.010245	0.005680	0.001605	0.016055
10-Jun-2028	1.664809	10.231900	15.863700	2.558560	36.085204	1.342080	0.016492	0.161958	0.040549	0.002791	0.001706	0.106313	0.000482	0.010132	0.005595	0.001583	0.015832
11-Jun-2028	1.856740	10.062600	15.570600	2.525630	35.526857	1.313700	0.016177	0.158830	0.040254	0.002736	0.001707	0.105436	0.000472	0.010009	0.005498	0.001558	0.015583
12-Jun-2028	2.083684	9.837400	15.164800	2.484810	34.796435	1.272950	0.015743	0.154498	0.039976	0.002660	0.001689	0.103840	0.000459	0.009848	0.005367	0.001526	0.015262
13-Jun-2028	2.261733	9.668740	14.879700	2.449490	34.229844	1.245760	0.015435	0.151461	0.039534	0.002606	0.001670	0.102668	0.000449	0.009713	0.005271	0.001501	0.015009
14-Jun-2028	2.379587	9.530720	14.637500	2.422400	33.773651	1.222300	0.015178	0.148752	0.039191	0.002562	0.001656	0.101798	0.000442	0.009610	0.005192	0.001481	0.014806
15-Jun-2028	2.434324	9.402550	14.425500	2.394500	33.338718	1.202470	0.014948	0.146545	0.038925	0.002522	0.001645	0.100726	0.000435	0.009500	0.005120	0.001461	0.014611
16-Jun-2028	2.451213	9.260440	14.186600	2.364070	32.858559	1.180110	0.014692	0.143930	0.038667	0.002479	0.001631	0.099857	0.000427	0.009388	0.005039	0.001439	0.014394
17-Jun-2028	2.420585	9.088970	13.881800	2.330190	32.290881	1.150720	0.014380	0.140559	0.038475	0.002430	0.001620	0.098926	0.000417	0.009262	0.004941	0.001414	0.014139
18-Jun-2028	2.366540	8.943010	13.639800	2.298670	31.796619	1.128040	0.014117	0.138087	0.038276	0.002385	0.001609	0.098009	0.000409	0.009145	0.004859	0.001392	0.013917
19-Jun-2028	2.335508	8.766710	13.332900	2.265200	31.218568	1.098460	0.013794	0.134814	0.038060	0.002330	0.001598	0.096976	0.000399	0.009013	0.004758	0.001366	0.013655
20-Jun-2028	2.295461	8.629360	13.095400	2.237920	30.763266	1.075670	0.013545	0.132287	0.037877	0.002291	0.001588	0.096210	0.000392	0.008913	0.004680	0.001345	0.013449
21-Jun-2028	2.281231	8.478830	12.834400	2.211580	30.278925	1.050520	0.013265	0.129494	0.037712	0.002241	0.001579	0.095340	0.000383	0.008813	0.004594	0.001324	0.013244
22-Jun-2028	2.312611	8.332170	12.579800	2.180280	29.783822	1.025950	0.013000	0.126773	0.037572	0.002199	0.001569	0.094468	0.000375	0.008695	0.004510	0.001301	0.013005
23-Jun-2028	2.405818	8.177420	12.299300	2.146840	29.259705	0.998563	0.012714	0.123770	0.037385	0.002151	0.001558	0.093587	0.000366	0.008576	0.004421	0.001278	0.012777
24-Jun-2028	2.617032	8.061350	12.106800	2.125320	28.881259	0.980121	0.012492	0.121721	0.037209	0.002113	0.001550	0.092883	0.000359	0.008490	0.004355	0.001260	0.012597
25-Jun-2028	2.873333	7.939120	11.892300	2.098810	28.466882	0.959294	0.012266	0.119434	0.037035	0.002077	0.001540	0.092251	0.000352	0.008398	0.004285	0.001241	0.012414
26-Jun-2028	3.154854	7.798360	11.634500	2.072240	28.005989	0.934009	0.012012	0.116697	0.036868	0.002034	0.001530	0.091536	0.000344	0.008299	0.004204	0.001221	0.012210
27-Jun-2028	3.506296	7.694140	11.461700	2.052860	27.665945	0.917409	0.011811	0.114863	0.036783	0.001999	0.001525	0.090862	0.000338	0.008220	0.004145	0.001205	0.012049
28-Jun-2028	3.908281	7.546980	11.190400	2.023900	27.179229	0.890518	0.011544	0.112007	0.036662	0.001956	0.001514	0.090245	0.000329	0.008121	0.004060	0.001184	0.011839
29-Jun-2028	4.377606	7.342240	10.830700	1.986090	26.512292	0.855215	0.011164	0.108227	0.036493	0.001892	0.001505	0.089225	0.000317	0.007976	0.003942	0.001154	0.011537
30-Jun-2028	4.623314	7.226270	10.622500	1.962060	26.123759	0.835071	0.010951	0.106085	0.036327	0.001858	0.001497	0.088708	0.000310	0.007894	0.003876	0.001136	0.011362
1-Jul-2028	5.316861	6.158390	8.808630	1.731620	22.508311	0.663753	0.008980	0.086831	0.033853	0.001541	0.001394	0.081444	0.000252	0.007061	0.003278	0.000973	0.009735
2-Jul-2028	6.152396	6.298070	9.068710	1.746320	22.917627	0.692294	0.009263	0.089606	0.033784	0.001606	0.001387	0.082252	0.000261	0.007166	0.003369	0.000992	0.009924
3-Jul-2028	7.236591	6.269810	9.011280	1.740020	22.821118	0.687560	0.009226	0.089219	0.033678	0.001614	0.001384	0.082788	0.000260	0.007156	0.003355	0.000987	0.009869
4-Jul-2028	8.707425	6.332740	9.124640	1.747790	23.010251	0.699698	0.009349	0.090457	0.033697	0.001644	0.001383	0.083656	0.000263	0.007207	0.003395	0.000996	0.009957
5-Jul-2028	9.842458	6.366220	9.168030	1.752360	23.112670	0.704966	0.009426	0.091214	0.033785	0.001680	0.001384	0.084727	0.000265	0.007260	0.003419	0.000999	0.009994
6-Jul-2028	10.728604	6.216300	8.897030	1.729050	22.642329	0.678012	0.009153	0.088496	0.033469	0.001636	0.001379	0.084102	0.000256	0.007142	0.003328	0.000976	0.009763
7-Jul-2028	11.473484	6.334500	9.118430	1.747410	23.013081	0.700022	0.009364	0.090609	0.033579	0.001666	0.001381	0.084119	0.000263	0.007219	0.003399	0.000994	0.009945
8-Jul-2028	11.812822	6.861610	10.085600	1.829940	24.669133	0.796789	0.010321	0.100201	0.034205	0.001824	0.001392	0.085441	0.000296	0.007597	0.003716	0.001074	0.010743
9-Jul-2028	11.912267	6.719350	9.826500	1.807710	24.222367	0.770821	0.010061	0.097594	0.034006	0.001779	0.001388	0.084982	0.000287	0.007491	0.003630	0.001053	0.010528
10-Jul-2028	12.455571	7.073750	10.475800	1.864180	25.339847	0.835672	0.010703	0.104026	0.034394	0.001886	0.001396	0.085929	0.000309	0.007742	0.003842	0.001106	0.011063
11-Jul-2028	12.513222	6.615090	9.636320	1.795430	23.911460	0.751287	0.009864	0.095625	0.033686	0.001749	0.001387	0.084754	0.000281	0.007397	0.003562	0.001037	0.010365
12-Jul-2028	12.221045	6.405980	9.250380	1.764280	23.261037	0.712518	0.009483	0.091800	0.033386	0.001689	0.001384	0.084379	0.000268	0.007244	0.003435	0.001005	0.010045
13-Jul-2028	12.005180	6.518640	9.456240	1.782970	23.619315	0.732978	0.009686	0.093825	0.033483	0.001723	0.001387	0.084717	0.000275	0.007321	0.003502	0.001021	0.010214
14-Jul-2028	11.898765	6.580210	9.568650	1.793310	23.815635	0.744139	0.009797	0.094937	0.033537	0.001742	0.001388	0.084909	0.000278	0.007363	0.003538	0.001031	0.010307
15-Jul-2028	11.525484	6.619000	9.639310	1.800470	23.941978	0.751068	0.009866	0.095620	0.033542	0.001754	0.001390	0.085046	0.000281	0.007387	0.003561	0.001036	0.010364

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16-Jul-2028	10.810984	6.647690	9.691900	1.806070	24.036678	0.756178	0.009916	0.096118	0.033529	0.001763	0.001391	0.085136	0.000283	0.007403	0.003577	0.001041	0.010407
17-Jul-2028	10.914527	6.751460	9.880850	1.823010	24.365551	0.775059	0.010105	0.098006	0.033631	0.001796	0.001393	0.085503	0.000289	0.007476	0.003638	0.001056	0.010562
18-Jul-2028	12.371722	6.849620	10.063600	1.840830	24.684039	0.793053	0.010280	0.099768	0.033681	0.001824	0.001396	0.085760	0.000295	0.007537	0.003695	0.001071	0.010710
19-Jul-2028	12.650308	7.318290	10.915700	1.912420	26.149116	0.878531	0.011134	0.108305	0.034325	0.001969	0.001406	0.087176	0.000323	0.007888	0.003979	0.001142	0.011417
20-Jul-2028	12.805412	7.011870	10.357600	1.866630	25.195422	0.822365	0.010573	0.102693	0.033844	0.001874	0.001400	0.086242	0.000305	0.007653	0.003792	0.001095	0.010954
21-Jul-2028	12.537478	7.068780	10.461400	1.876560	25.378418	0.832634	0.010675	0.103714	0.033877	0.001892	0.001401	0.086435	0.000308	0.007690	0.003825	0.001104	0.011039
22-Jul-2028	13.352378	7.141840	10.593500	1.888130	25.608494	0.845824	0.010808	0.105037	0.033982	0.001914	0.001403	0.086699	0.000313	0.007746	0.003870	0.001115	0.011149
23-Jul-2028	13.518065	7.289850	10.865800	1.913090	26.080860	0.872878	0.011074	0.107690	0.034068	0.001959	0.001407	0.087263	0.000322	0.007842	0.003956	0.001137	0.011369
24-Jul-2028	14.321122	7.247520	10.781900	1.908370	25.955725	0.864461	0.010998	0.106913	0.033965	0.001954	0.001407	0.087673	0.000319	0.007813	0.003930	0.001130	0.011298
25-Jul-2028	13.799967	7.240280	10.769800	1.908030	25.936247	0.863098	0.010982	0.106760	0.033906	0.001951	0.001407	0.087315	0.000319	0.007802	0.003925	0.001129	0.011287
26-Jul-2028	13.301431	7.395500	11.055000	1.932590	26.424969	0.891563	0.011263	0.109575	0.034081	0.001996	0.001410	0.087673	0.000328	0.007912	0.004018	0.001152	0.011523
27-Jul-2028	12.941867	7.387600	11.041700	1.932330	26.404172	0.890070	0.011246	0.109409	0.034019	0.001993	0.001410	0.087607	0.000328	0.007900	0.004012	0.001151	0.011510
28-Jul-2028	12.892845	7.394420	11.052900	1.933860	26.427502	0.891116	0.011258	0.109520	0.034022	0.001996	0.001411	0.087684	0.000328	0.007905	0.004015	0.001152	0.011520
29-Jul-2028	12.634680	7.472600	11.196600	1.947410	26.678517	0.905329	0.011397	0.110906	0.034052	0.002019	0.001413	0.087903	0.000333	0.007955	0.004061	0.001164	0.011636
30-Jul-2028	12.254051	7.390860	11.048200	1.935670	26.426066	0.890291	0.011245	0.109383	0.033890	0.001993	0.001411	0.087611	0.000328	0.007889	0.004010	0.001151	0.011512
31-Jul-2028	13.066145	7.358340	10.989400	1.932440	26.331563	0.884125	0.011181	0.108739	0.033763	0.001983	0.001411	0.087509	0.000326	0.007856	0.003989	0.001146	0.011460
1-Aug-2028	13.231227	7.459960	11.177300	1.948860	26.652926	0.902848	0.011365	0.110580	0.033868	0.002012	0.001413	0.087715	0.000332	0.007924	0.004049	0.001161	0.011615
2-Aug-2028	13.911004	7.826620	11.844900	2.003640	27.794060	0.969969	0.012035	0.117280	0.034432	0.002125	0.001421	0.088804	0.000354	0.008206	0.004273	0.001217	0.012169
3-Aug-2028	13.906951	8.591490	13.248700	2.124550	30.201847	1.109990	0.013411	0.131029	0.035312	0.002352	0.001437	0.090713	0.000401	0.008749	0.004732	0.001333	0.013329
4-Aug-2028	14.117973	8.205330	12.547200	2.068350	29.006174	1.039150	0.012694	0.123840	0.034651	0.002233	0.001429	0.089499	0.000378	0.008445	0.004495	0.001274	0.012744
5-Aug-2028	14.290339	8.052200	12.262500	2.042450	28.517153	1.010930	0.012424	0.121140	0.034533	0.002189	0.001426	0.089232	0.000368	0.008347	0.004404	0.001251	0.012511
6-Aug-2028	14.942731	8.077850	12.313900	2.050150	28.612909	1.015510	0.012455	0.121423	0.034420	0.002195	0.001427	0.089190	0.000370	0.008345	0.004416	0.001255	0.012549
7-Aug-2028	15.707396	7.652440	11.535100	1.987460	27.292503	0.936896	0.011668	0.113518	0.033675	0.002068	0.001419	0.088121	0.000344	0.008015	0.004155	0.001190	0.011895
8-Aug-2028	15.817955	7.746030	11.703600	2.001730	27.584961	0.953844	0.011839	0.115230	0.033812	0.002098	0.001421	0.088503	0.000350	0.008088	0.004212	0.001203	0.012035
9-Aug-2028	15.954882	7.988140	12.150000	2.043790	28.362713	0.998090	0.012268	0.119509	0.034030	0.002169	0.001427	0.089035	0.000365	0.008252	0.004355	0.001240	0.012402
10-Aug-2028	16.414663	7.975920	12.128500	2.039630	28.315069	0.995829	0.012242	0.119241	0.033994	0.002165	0.001426	0.088956	0.000364	0.008240	0.004347	0.001238	0.012384
11-Aug-2028	16.707655	7.866060	11.928000	2.024070	27.976672	0.975480	0.012036	0.117163	0.033788	0.002131	0.001424	0.088648	0.000357	0.008152	0.004279	0.001222	0.012216
12-Aug-2028	16.785145	8.101280	12.360500	2.061890	28.719759	1.018450	0.012454	0.121336	0.034046	0.002200	0.001429	0.089214	0.000372	0.008315	0.004420	0.001257	0.012572
13-Aug-2028	16.914261	8.296050	12.718800	2.092770	29.333264	1.054130	0.012802	0.124809	0.034221	0.002258	0.001433	0.089647	0.000384	0.008451	0.004536	0.001287	0.012866
14-Aug-2028	16.298502	8.114500	12.390400	2.067610	28.776324	1.020670	0.012457	0.121346	0.033821	0.002201	0.001430	0.089031	0.000373	0.008298	0.004423	0.001259	0.012590
15-Aug-2028	16.035720	8.314730	12.754500	2.097330	29.398686	1.057350	0.012826	0.125035	0.034135	0.002262	0.001434	0.089643	0.000385	0.008453	0.004545	0.001289	0.012892
16-Aug-2028	15.850576	8.456790	13.013900	2.119440	29.844459	1.083270	0.013082	0.127593	0.034297	0.002305	0.001437	0.090039	0.000394	0.008557	0.004631	0.001311	0.013105
17-Aug-2028	15.775516	8.574530	13.230100	2.138960	30.218839	1.104650	0.013289	0.129654	0.034387	0.002340	0.001440	0.090335	0.000401	0.008636	0.004701	0.001328	0.013283
18-Aug-2028	15.496080	8.149310	12.454400	2.075710	28.896601	1.026520	0.012504	0.121788	0.033686	0.002212	0.001431	0.089155	0.000375	0.008309	0.004441	0.001264	0.012636
19-Aug-2028	14.872153	8.294640	12.721300	2.099460	29.357292	1.053000	0.012760	0.124340	0.033808	0.002256	0.001434	0.089549	0.000384	0.008408	0.004527	0.001285	0.012855
20-Aug-2028	14.507663	8.410920	12.932500	2.120330	29.733586	1.073680	0.012956	0.126275	0.033844	0.002295	0.001438	0.090059	0.000391	0.008482	0.004594	0.001302	0.013025
21-Aug-2028	13.517545	8.165470	12.483500	2.082960	28.966808	1.028620	0.012507	0.121781	0.033461	0.002221	0.001433	0.089401	0.000376	0.008299	0.004445	0.001265	0.012651
22-Aug-2028	12.424676	8.014200	12.207800	2.061240	28.499644	1.000660	0.012224	0.118941	0.033163	0.002174	0.001430	0.088945	0.000367	0.008178	0.004352	0.001242	0.012419
23-Aug-2028	11.124355	8.094990	12.355600	2.074640	28.756558	1.015280	0.012365	0.120344	0.033227	0.002199	0.001432	0.089189	0.000372	0.008233	0.004400	0.001254	0.012540
24-Aug-2028	10.775592	8.211060	12.567500	2.093590	29.124420	1.036320	0.012570	0.122388	0.033342	0.002236	0.001435	0.089593	0.000379	0.008315	0.004469	0.001271	0.012714
25-Aug-2028	10.632059	8.699830	13.460400	2.168590	30.653729	1.125800	0.013459	0.131274	0.034018	0.002383	0.001445	0.090940	0.000408	0.008678	0.004765	0.001345	0.013454
26-Aug-2028	10.352647	8.284370	12.703200	2.107600	29.365169	1.049360	0.012688	0.123539	0.033304	0.002257	0.001437	0.089761	0.000383	0.008354	0.004510	0.001282	0.012822
27-Aug-2028	10.035766	8.525440	13.144600	2.145310	30.122410	1.093470	0.013123	0.127882	0.033607	0.002330	0.001442	0.090408	0.000398	0.008528	0.004655	0.001319	0.013187
28-Aug-2028	9.713393	8.268370	12.676200	2.108340	29.328264	1.046010	0.012640	0.123036	0.033102	0.002252	0.001437	0.089673	0.000382	0.008323	0.004496	0.001279	0.012793
29-Aug-2028	10.043793	8.540960	13.171200	2.151770	30.187766	1.095410	0.013125	0.127869	0.033418	0.002340	0.001443	0.090706	0.000399	0.008522	0.004660	0.001320	0.013199
30-Aug-2028	10.326747	8.365940	12.850100	2.126450	29.646473	1.062960	0.012799	0.124594	0.033103	0.002289	0.001440	0.090354	0.000388	0.008387	0.004553	0.001293	0.012931
31-Aug-2028	9.855960	8.337500	12.802600	2.122910	29.560881	1.057930	0.012744	0.124044	0.033020	0.002275	0.001439	0.090024	0.000387	0.008356	0.004534	0.001289	0.012892
1-Sep-2028	8.816618	8.356520	12.838700	2.126240	29.622087	1.061450	0.012776	0.124362	0.032990	0.002279	0.001440	0.089962	0.000388	0.008365	0.004545	0.001292	0.012920
2-Sep-2028	7.967275	8.412250	12.941800	2.134420	29.794930	1.071920	0.012879	0.125390	0.033046	0.002297	0.001440	0.090106	0.000391	0.008405	0.004579	0.001300	0.013003
3-Sep-2028	7.565530	8.557040	13.208800	2.156360	30.246819	1.098780	0.013144	0.128051	0.033222	0.002340	0.001442	0.090408	0.000400	0.008509	0.004667	0.001322	0.013223
4-Sep-2028	7.728316	8.498830	13.104100	2.147600	30.065395	1.088410	0.013035	0.126955	0.033061	0.002326	0.001440	0.090308	0.000397	0.008460	0.004631	0.001313	0.013131
5-Sep-2028	7.562174	8.505570	13.118500	2.148600	30.086343	1.089890	0.013048	0.127095	0.033047	0.002326	0.001439	0.090234	0.000397	0.008462	0.004635	0.001314	0.013142

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Sep-2028	7.591662	8.810710	13.676200	2.195110	31.039806	1.145970	0.013603	0.132636	0.033438	0.002422	0.001445	0.091178	0.000416	0.008687	0.004820	0.001360	0.013601
7-Sep-2028	6.871718	8.920930	13.881500	2.212610	31.387090	1.166490	0.013804	0.134662	0.033532	0.002453	0.001446	0.091313	0.000423	0.008760	0.004886	0.001377	0.013769
8-Sep-2028	5.994942	8.728050	13.528700	2.183420	30.785264	1.131210	0.013451	0.131124	0.033235	0.002397	0.001442	0.090848	0.000411	0.008617	0.004769	0.001347	0.013474
9-Sep-2028	5.719642	8.747740	13.568900	2.185670	30.843696	1.135410	0.013486	0.131484	0.033184	0.002404	0.001441	0.090817	0.000412	0.008623	0.004781	0.001350	0.013503
10-Sep-2028	5.839913	8.951240	13.938200	2.216670	31.479493	1.172460	0.013857	0.135188	0.033493	0.002467	0.001445	0.091490	0.000425	0.008780	0.004905	0.001381	0.013810
11-Sep-2028	5.684572	8.848310	13.754100	2.201060	31.158195	1.154070	0.013669	0.133313	0.033280	0.002435	0.001442	0.091081	0.000419	0.008695	0.004842	0.001365	0.013653
12-Sep-2028	4.770405	8.880980	13.817400	2.205590	31.258427	1.160640	0.013729	0.133913	0.033259	0.002446	0.001441	0.091118	0.000421	0.008713	0.004862	0.001370	0.013701
13-Sep-2028	4.843895	8.981510	14.003700	2.220970	31.572785	1.179450	0.013911	0.135737	0.033338	0.002478	0.001442	0.091367	0.000427	0.008781	0.004922	0.001385	0.013851
14-Sep-2028	5.443851	8.903560	13.860500	2.209290	31.330046	1.165190	0.013766	0.134278	0.033176	0.002459	0.001440	0.091304	0.000422	0.008722	0.004875	0.001373	0.013728
15-Sep-2028	5.303492	8.995550	14.032600	2.222880	31.615708	1.182590	0.013935	0.135985	0.033269	0.002485	0.001440	0.091395	0.000428	0.008785	0.004931	0.001387	0.013869
16-Sep-2028	4.763350	9.245420	14.492800	2.260740	32.395541	1.228890	0.014392	0.140560	0.033574	0.002560	0.001444	0.091981	0.000444	0.008965	0.005082	0.001425	0.014248
17-Sep-2028	4.230222	9.823080	15.550100	2.348510	34.199395	1.335090	0.015447	0.151119	0.034370	0.002735	0.001455	0.093521	0.000479	0.009393	0.005433	0.001512	0.015122
18-Sep-2028	3.671319	9.150910	14.321600	2.246740	32.101898	1.211660	0.014218	0.138814	0.033385	0.002530	0.001442	0.091658	0.000438	0.008889	0.005024	0.001410	0.014103
19-Sep-2028	3.665992	9.766010	15.445800	2.339860	34.021270	1.324610	0.015341	0.150055	0.034261	0.002718	0.001454	0.093364	0.000475	0.009350	0.005398	0.001503	0.015034
20-Sep-2028	3.927437	9.313880	14.622700	2.271220	32.609642	1.242040	0.014515	0.141793	0.033560	0.002580	0.001444	0.092031	0.000448	0.009005	0.005123	0.001435	0.014349
21-Sep-2028	4.545800	9.424110	14.827200	2.287430	32.951639	1.262790	0.014717	0.143814	0.033670	0.002615	0.001444	0.092276	0.000455	0.009083	0.005190	0.001451	0.014514
22-Sep-2028	4.414489	9.457650	14.892200	2.292280	33.055361	1.269450	0.014779	0.144440	0.033664	0.002625	0.001444	0.092264	0.000457	0.009101	0.005211	0.001456	0.014565
23-Sep-2028	4.447526	9.545710	15.058700	2.305220	33.328534	1.286390	0.014941	0.146066	0.033711	0.002651	0.001443	0.092352	0.000463	0.009158	0.005264	0.001470	0.014698
24-Sep-2028	4.268159	9.420630	14.830600	2.286260	32.938132	1.263560	0.014712	0.143765	0.033499	0.002614	0.001440	0.092026	0.000455	0.009062	0.005188	0.001451	0.014506
25-Sep-2028	4.237628	9.601750	15.163200	2.313820	33.503881	1.296990	0.015042	0.147073	0.033727	0.002669	0.001443	0.092484	0.000466	0.009194	0.005298	0.001478	0.014780
26-Sep-2028	4.327310	9.879630	15.670900	2.356100	34.371856	1.347930	0.015549	0.152147	0.034121	0.002753	0.001449	0.093242	0.000483	0.009402	0.005466	0.001520	0.015201
27-Sep-2028	4.219051	9.820510	15.563900	2.347020	34.186842	1.337180	0.015440	0.151051	0.034008	0.002734	0.001448	0.093033	0.000480	0.009355	0.005430	0.001511	0.015110
28-Sep-2028	4.025789	9.825320	15.579700	2.347360	34.200253	1.339010	0.015450	0.151163	0.033918	0.002735	0.001445	0.092827	0.000480	0.009347	0.005433	0.001512	0.015117
29-Sep-2028	3.834125	9.910550	15.738600	2.360070	34.465412	1.355090	0.015606	0.152730	0.033993	0.002760	0.001446	0.092975	0.000486	0.009405	0.005484	0.001525	0.015246
30-Sep-2028	3.261836	9.839840	15.611400	2.349060	34.243510	1.342450	0.015477	0.151437	0.033851	0.002740	0.001443	0.092754	0.000481	0.009348	0.005441	0.001514	0.015137
1-Oct-2028	3.333749	9.855460	15.642100	2.351240	34.291490	1.345620	0.015506	0.151730	0.033843	0.002744	0.001443	0.092731	0.000482	0.009356	0.005451	0.001516	0.015161
2-Oct-2028	3.043456	9.427590	14.858300	2.286180	32.955181	1.266960	0.014724	0.143903	0.033278	0.002616	0.001435	0.091638	0.000456	0.009040	0.005191	0.001451	0.014511
3-Oct-2028	2.694288	9.308250	14.638900	2.267920	32.581995	1.244900	0.014507	0.141731	0.033185	0.002580	0.001434	0.091333	0.000449	0.008954	0.005119	0.001433	0.014331
4-Oct-2028	2.580635	9.260220	14.551500	2.260340	32.430849	1.236220	0.014420	0.140856	0.033054	0.002566	0.001434	0.091213	0.000446	0.008918	0.005090	0.001426	0.014257
5-Oct-2028	2.400336	9.224660	14.486700	2.254610	32.318460	1.229800	0.014357	0.140224	0.033064	0.002556	0.001433	0.091130	0.000444	0.008892	0.005069	0.001420	0.014204
6-Oct-2028	2.221998	9.212750	14.465200	2.252650	32.280649	1.227690	0.014336	0.140014	0.032994	0.002552	0.001431	0.091091	0.000443	0.008883	0.005062	0.001419	0.014185
7-Oct-2028	2.225868	9.200250	14.443300	2.250550	32.240789	1.225590	0.014314	0.139803	0.032992	0.002548	0.001430	0.091035	0.000442	0.008874	0.005055	0.001417	0.014167
8-Oct-2028	2.200552	9.193970	14.431200	2.249510	32.220825	1.224330	0.014303	0.139688	0.033028	0.002546	0.001431	0.091009	0.000442	0.008870	0.005051	0.001416	0.014158
9-Oct-2028	2.103204	9.164790	14.377800	2.244770	32.128443	1.219030	0.014251	0.139172	0.032937	0.002537	0.001429	0.090937	0.000440	0.008849	0.005033	0.001411	0.014114
10-Oct-2028	2.017240	9.141060	14.335100	2.240690	32.052388	1.214890	0.014209	0.138759	0.032886	0.002531	0.001428	0.090882	0.000439	0.008832	0.005019	0.001408	0.014078
11-Oct-2028	1.657086	9.114010	14.286400	2.236320	31.966849	1.210080	0.014162	0.138289	0.032892	0.002523	0.001428	0.090804	0.000437	0.008812	0.005003	0.001404	0.014038
12-Oct-2028	1.203083	9.093550	14.248800	2.232970	31.901965	1.206360	0.014125	0.137923	0.032889	0.002517	0.001427	0.090743	0.000436	0.008798	0.004991	0.001401	0.014006
13-Oct-2028	1.143598	9.082850	14.229600	2.231140	31.867711	1.204460	0.014106	0.137738	0.032895	0.002513	0.001427	0.090678	0.000435	0.008790	0.004985	0.001399	0.013991
14-Oct-2028	1.042905	9.081550	14.227500	2.230800	31.863065	1.204280	0.014104	0.137718	0.032837	0.002513	0.001427	0.090663	0.000435	0.008789	0.004984	0.001399	0.013989
15-Oct-2028	0.883753	9.056380	14.182000	2.226550	31.782714	1.199850	0.014060	0.137277	0.032781	0.002506	0.001425	0.090632	0.000434	0.008770	0.004969	0.001395	0.013950
16-Oct-2028	0.872454	9.060340	14.186100	2.228380	31.800138	1.199960	0.014064	0.137318	0.032819	0.002507	0.001427	0.090773	0.000434	0.008776	0.004971	0.001396	0.013957
17-Oct-2028	0.871870	9.143860	14.315100	2.250060	32.097966	1.210720	0.014192	0.138564	0.033131	0.002531	0.001441	0.091710	0.000438	0.008860	0.005016	0.001409	0.014085
18-Oct-2028	0.868490	9.237710	14.456500	2.274160	32.431553	1.222270	0.014332	0.139924	0.033480	0.002559	0.001458	0.092913	0.000442	0.008953	0.005067	0.001423	0.014228
19-Oct-2028	0.868164	9.309740	14.567800	2.292320	32.686195	1.231570	0.014442	0.140999	0.033745	0.002579	0.001469	0.093562	0.000445	0.009024	0.005106	0.001434	0.014338
20-Oct-2028	0.869615	9.294060	14.540200	2.289440	32.635182	1.228960	0.014415	0.140729	0.033706	0.002576	0.001468	0.093519	0.000444	0.009012	0.005097	0.001431	0.014314
21-Oct-2028	0.871485	9.278390	14.518500	2.284720	32.576617	1.227320	0.014394	0.140525	0.033673	0.002570	0.001465	0.093228	0.000444	0.008995	0.005089	0.001429	0.014291
22-Oct-2028	0.870275	9.305460	14.561400	2.291240	32.671060	1.230900	0.014437	0.140948	0.033774	0.002575	0.001469	0.093413	0.000445	0.009021	0.005104	0.001433	0.014335
23-Oct-2028	0.869914	9.337860	14.612200	2.299300	32.785154	1.235240	0.014487	0.141439	0.033897	0.002584	0.001474	0.093765	0.000447	0.009053	0.005121	0.001438	0.014385
24-Oct-2028	0.870202	9.374620	14.669700	2.308320	32.914088	1.240040	0.014544	0.141995	0.034025	0.002594	0.001480	0.094113	0.000448	0.009088	0.005142	0.001444	0.014441
25-Oct-2028	0.870289	9.407380	14.717400	2.317450	33.033487	1.243790	0.014592	0.142454	0.034159	0.002604	0.001487	0.094573	0.000450	0.009123	0.005159	0.001449	0.014491
26-Oct-2028	0.870905	9.459670	14.805900	2.328300	33.208735	1.251840	0.014679	0.143314	0.034315	0.002617	0.001493	0.094996	0.000453	0.009168	0.005189	0.001457	0.014572
27-Oct-2028	0.872044	9.488950	14.849500	2.336220	33.314462	1.255340	0.014722	0.143734	0.034428	0.002626	0.001498	0.095314	0.000454	0.009198	0.005204	0.001462	0.014617

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Oct-2028	0.873570	9.533850	14.920000	2.347200	33.471793	1.261320	0.014792	0.144417	0.034589	0.002638	0.001505	0.095686	0.000456	0.009241	0.005229	0.001469	0.014686
29-Oct-2028	0.874288	9.573820	14.982800	2.356980	33.611872	1.266630	0.014854	0.145025	0.034735	0.002649	0.001511	0.096059	0.000458	0.009280	0.005251	0.001475	0.014748
30-Oct-2028	0.874669	9.633830	15.076700	2.371660	33.822169	1.274580	0.014948	0.145936	0.034956	0.002665	0.001520	0.096659	0.000461	0.009338	0.005284	0.001484	0.014841
31-Oct-2028	0.875134	9.671720	15.136500	2.380820	33.954502	1.279680	0.015007	0.146515	0.035091	0.002676	0.001526	0.097024	0.000463	0.009375	0.005305	0.001490	0.014899
1-Nov-2028	0.875557	9.676110	15.145000	2.381370	33.967728	1.280560	0.015015	0.146598	0.035093	0.002677	0.001526	0.097015	0.000463	0.009378	0.005308	0.001491	0.014906
2-Nov-2028	0.875475	9.696110	15.176800	2.386140	34.037311	1.283300	0.015047	0.146906	0.035166	0.002682	0.001529	0.097231	0.000464	0.009396	0.005319	0.001494	0.014937
3-Nov-2028	0.875437	9.722290	15.217800	2.392570	34.129161	1.286770	0.015087	0.147303	0.035280	0.002690	0.001534	0.097542	0.000465	0.009422	0.005333	0.001498	0.014977
4-Nov-2028	0.875243	9.740170	15.240600	2.398380	34.197733	1.288230	0.015111	0.147528	0.035373	0.002695	0.001538	0.097797	0.000466	0.009445	0.005342	0.001500	0.015005
5-Nov-2028	0.872663	9.764790	15.282000	2.403680	34.281035	1.292010	0.015151	0.147924	0.035426	0.002702	0.001541	0.097973	0.000467	0.009465	0.005356	0.001504	0.015042
6-Nov-2028	0.869074	9.796810	15.332500	2.411490	34.393150	1.296320	0.015201	0.148411	0.035532	0.002711	0.001545	0.098295	0.000469	0.009496	0.005374	0.001509	0.015091
7-Nov-2028	0.866212	9.830750	15.383400	2.420550	34.515208	1.300440	0.015251	0.148900	0.035662	0.002722	0.001552	0.098730	0.000470	0.009530	0.005392	0.001514	0.015143
8-Nov-2028	0.866131	9.864060	15.433700	2.429300	34.634415	1.304570	0.015301	0.149385	0.035787	0.002732	0.001558	0.099142	0.000472	0.009564	0.005410	0.001519	0.015193
9-Nov-2028	0.866274	9.897220	15.485400	2.437530	34.751107	1.308930	0.015353	0.149884	0.035905	0.002741	0.001563	0.099488	0.000473	0.009596	0.005428	0.001524	0.015244
10-Nov-2028	0.866322	9.925700	15.530800	2.444270	34.849977	1.312840	0.015398	0.150325	0.036003	0.002749	0.001567	0.099742	0.000475	0.009623	0.005444	0.001529	0.015288
11-Nov-2028	0.866491	9.964940	15.593800	2.453460	34.985803	1.318280	0.015460	0.150936	0.036141	0.002759	0.001573	0.100085	0.000477	0.009660	0.005466	0.001535	0.015349
12-Nov-2028	0.866845	10.003500	15.654300	2.462940	35.121126	1.323410	0.015520	0.151521	0.036280	0.002770	0.001579	0.100456	0.000478	0.009697	0.005487	0.001541	0.015408
13-Nov-2028	0.866809	10.038200	15.709100	2.471280	35.242116	1.328090	0.015574	0.152053	0.036404	0.002779	0.001584	0.100776	0.000480	0.009730	0.005506	0.001546	0.015462
14-Nov-2028	0.865819	10.078400	15.772500	2.481070	35.382811	1.333470	0.015637	0.152667	0.036550	0.002790	0.001590	0.101162	0.000482	0.009769	0.005528	0.001552	0.015524
15-Nov-2028	0.864146	10.139200	15.867800	2.495970	35.595987	1.341540	0.015732	0.153589	0.036770	0.002807	0.001600	0.101764	0.000485	0.009828	0.005561	0.001562	0.015618
16-Nov-2028	0.861407	10.199200	15.961300	2.510860	35.807124	1.349420	0.015824	0.154494	0.036989	0.002823	0.001609	0.102382	0.000488	0.009886	0.005594	0.001571	0.015710
17-Nov-2028	0.857525	10.261200	16.057200	2.526450	36.026138	1.357440	0.015919	0.155421	0.037217	0.002841	0.001619	0.103049	0.000491	0.009947	0.005628	0.001581	0.015805
18-Nov-2028	0.858923	10.320900	16.146800	2.542340	36.240643	1.364710	0.016008	0.156285	0.037449	0.002859	0.001630	0.103805	0.000493	0.010008	0.005660	0.001590	0.015896
19-Nov-2028	0.855899	10.381400	16.239000	2.558010	36.456241	1.372310	0.016100	0.157174	0.037677	0.002877	0.001641	0.104517	0.000496	0.010069	0.005693	0.001599	0.015989
20-Nov-2028	0.854510	10.429300	16.315900	2.569190	36.621887	1.378960	0.016176	0.157920	0.037842	0.002889	0.001648	0.104920	0.000499	0.010113	0.005719	0.001606	0.016063
21-Nov-2028	0.854807	10.491600	16.414100	2.584300	36.839673	1.387330	0.016273	0.158871	0.038065	0.002906	0.001657	0.105517	0.000502	0.010173	0.005754	0.001616	0.016159
22-Nov-2028	0.855634	10.552800	16.510100	2.599290	37.054218	1.395470	0.016368	0.159802	0.038285	0.002923	0.001667	0.106122	0.000505	0.010232	0.005787	0.001625	0.016253
23-Nov-2028	0.856267	10.607200	16.595200	2.612720	37.245359	1.402660	0.016453	0.160625	0.038483	0.002938	0.001675	0.106673	0.000507	0.010285	0.005817	0.001634	0.016337
24-Nov-2028	0.855752	10.663500	16.683500	2.626520	37.442769	1.410130	0.016540	0.161479	0.038686	0.002954	0.001684	0.107231	0.000510	0.010340	0.005848	0.001642	0.016424
25-Nov-2028	0.855582	10.706100	16.750600	2.636830	37.591598	1.415850	0.016607	0.162130	0.038839	0.002965	0.001691	0.107636	0.000512	0.010380	0.005872	0.001649	0.016490
26-Nov-2028	0.855729	10.750600	16.820200	2.647810	37.747930	1.421730	0.016676	0.162803	0.039000	0.002978	0.001698	0.108085	0.000514	0.010424	0.005896	0.001656	0.016558
27-Nov-2028	0.855404	10.796600	16.891700	2.659280	37.910025	1.427740	0.016747	0.163495	0.039169	0.002991	0.001705	0.108566	0.000516	0.010468	0.005921	0.001663	0.016629
28-Nov-2028	0.854597	10.828700	16.941900	2.667240	38.022958	1.431970	0.016797	0.163981	0.039286	0.003000	0.001710	0.108895	0.000518	0.010500	0.005939	0.001668	0.016678
29-Nov-2028	0.854750	10.860300	16.991400	2.675020	38.133901	1.436150	0.016846	0.164459	0.039400	0.003008	0.001715	0.109214	0.000519	0.010530	0.005956	0.001673	0.016727
30-Nov-2028	0.854760	10.904200	17.059800	2.685850	38.288118	1.441930	0.016913	0.165122	0.039559	0.003021	0.001722	0.109660	0.000521	0.010573	0.005980	0.001679	0.016794
1-Dec-2028	0.854541	10.943500	17.121600	2.695490	38.425947	1.447170	0.016975	0.165720	0.039701	0.003031	0.001728	0.110048	0.000523	0.010611	0.006002	0.001686	0.016855
2-Dec-2028	0.853983	10.972100	17.166600	2.702410	38.525858	1.451000	0.017019	0.166155	0.039803	0.003039	0.001733	0.110322	0.000525	0.010638	0.006017	0.001690	0.016899
3-Dec-2028	0.853969	10.992800	17.199100	2.707470	38.598383	1.453760	0.017051	0.166470	0.039877	0.003045	0.001736	0.110525	0.000526	0.010658	0.006029	0.001693	0.016931
4-Dec-2028	0.853925	11.039000	17.271500	2.718870	38.760690	1.459870	0.017123	0.167171	0.040045	0.003058	0.001743	0.110992	0.000528	0.010703	0.006054	0.001700	0.017002
5-Dec-2028	0.853318	11.070000	17.319900	2.726470	38.869393	1.463970	0.017171	0.167640	0.040157	0.003066	0.001748	0.111301	0.000529	0.010733	0.006071	0.001705	0.017050
6-Dec-2028	0.853145	11.099200	17.365800	2.733630	38.971791	1.467860	0.017217	0.168083	0.040262	0.003074	0.001753	0.111590	0.000531	0.010761	0.006087	0.001709	0.017095
7-Dec-2028	0.853232	11.124500	17.405400	2.739870	39.060661	1.471210	0.017256	0.168467	0.040354	0.003081	0.001757	0.111846	0.000532	0.010786	0.006101	0.001713	0.017134
8-Dec-2028	0.853092	11.144800	17.437000	2.744870	39.131940	1.473880	0.017287	0.168773	0.040427	0.003087	0.001760	0.112051	0.000533	0.010806	0.006112	0.001717	0.017165
9-Dec-2028	0.852056	11.163500	17.466400	2.749460	39.197536	1.476370	0.017316	0.169058	0.040495	0.003092	0.001763	0.112236	0.000534	0.010824	0.006122	0.001719	0.017194
10-Dec-2028	0.851833	11.101500	17.369500	2.734160	38.979716	1.468190	0.017220	0.168120	0.040269	0.003075	0.001753	0.111609	0.000531	0.010763	0.006088	0.001710	0.017099
11-Dec-2028	0.852012	11.147500	17.441200	2.745540	39.141441	1.474230	0.017291	0.168813	0.040437	0.003088	0.001760	0.112081	0.000533	0.010808	0.006114	0.001717	0.017169
12-Dec-2028	0.851536	11.194700	17.515000	2.757220	39.307398	1.480460	0.017365	0.169527	0.040608	0.003101	0.001768	0.112561	0.000535	0.010854	0.006140	0.001724	0.017242
13-Dec-2028	0.851018	11.236600	17.580700	2.767500	39.454355	1.486020	0.017430	0.170163	0.040760	0.003113	0.001774	0.112978	0.000537	0.010895	0.006163	0.001731	0.017306
14-Dec-2028	0.851132	11.285400	17.657000	2.779510	39.625666	1.492470	0.017505	0.170902	0.040937	0.003126	0.001782	0.113469	0.000540	0.010942	0.006189	0.001738	0.017382
15-Dec-2028	0.851261	11.338700	17.740400	2.792680	39.812990	1.499520	0.017588	0.171709	0.041130	0.003141	0.001791	0.114008	0.000542	0.010994	0.006219	0.001746	0.017464
16-Dec-2028	0.850954	11.380200	17.805400	2.802870	39.958578	1.505020	0.017653	0.172338	0.041280	0.003152	0.001797	0.114422	0.000544	0.011034	0.006241	0.001753	0.017528
17-Dec-2028	0.851093	11.424200	17.874200	2.813660	40.112879	1.510850	0.017721	0.173005	0.041439	0.003164	0.001804	0.114860	0.000546	0.011076	0.006265	0.001760	0.017595
18-Dec-2028	0.850654	11.470500	17.946700	2.825070	40.275477	1.516980	0.017793	0.173706	0.041607	0.003177	0.001811	0.115326	0.000549	0.011121	0.006291	0.001767	0.017667

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19-Dec-2028	0.850225	11.516000	18.017900	2.836290	40.435294	1.522990	0.017863	0.174395	0.041772	0.003190	0.001819	0.115785	0.000551	0.011165	0.006316	0.001774	0.017737
20-Dec-2028	0.850332	11.500400	17.993300	2.832550	40.380940	1.520890	0.017839	0.174157	0.041717	0.003186	0.001816	0.115640	0.000550	0.011151	0.006307	0.001771	0.017713
21-Dec-2028	0.850056	11.546600	18.065600	2.843930	40.543164	1.526990	0.017910	0.174856	0.041885	0.003199	0.001823	0.116106	0.000552	0.011195	0.006333	0.001778	0.017784
22-Dec-2028	0.849746	11.589900	18.133200	2.854560	40.695058	1.532720	0.017978	0.175511	0.042041	0.003210	0.001830	0.116539	0.000554	0.011237	0.006356	0.001785	0.017851
23-Dec-2028	0.849864	11.642200	18.215000	2.867480	40.878856	1.539620	0.018059	0.176302	0.042231	0.003225	0.001839	0.117069	0.000557	0.011288	0.006385	0.001793	0.017931
24-Dec-2028	0.849585	11.695100	18.297800	2.880520	41.064646	1.546620	0.018141	0.177103	0.042423	0.003240	0.001847	0.117602	0.000559	0.011339	0.006414	0.001801	0.018013
25-Dec-2028	0.849315	11.743800	18.374100	2.892500	41.235584	1.553070	0.018216	0.177842	0.042600	0.003253	0.001855	0.118090	0.000562	0.011387	0.006441	0.001809	0.018088
26-Dec-2028	0.849364	11.797700	18.458400	2.905790	41.424900	1.560190	0.018300	0.178658	0.042795	0.003268	0.001863	0.118634	0.000564	0.011439	0.006470	0.001817	0.018171
27-Dec-2028	0.849059	11.832900	18.513300	2.914450	41.548456	1.564830	0.018354	0.179189	0.042923	0.003278	0.001869	0.118987	0.000566	0.011473	0.006490	0.001822	0.018225
28-Dec-2028	0.848763	11.867800	18.568000	2.923050	41.671017	1.569460	0.018409	0.179719	0.043049	0.003288	0.001874	0.119338	0.000568	0.011507	0.006509	0.001828	0.018279
29-Dec-2028	0.848797	11.941000	18.682400	2.941080	41.928044	1.579130	0.018522	0.180826	0.043315	0.003308	0.001886	0.120076	0.000571	0.011578	0.006549	0.001839	0.018391
30-Dec-2028	0.848624	11.996600	18.769300	2.954800	42.123377	1.586470	0.018608	0.181667	0.043517	0.003323	0.001895	0.120639	0.000574	0.011632	0.006579	0.001848	0.018477
31-Dec-2028	0.848380	12.058100	18.865700	2.969930	42.339247	1.594620	0.018704	0.182600	0.043739	0.003340	0.001904	0.121254	0.000577	0.011691	0.006613	0.001857	0.018572
1-Jan-2029	0.848248	12.164400	19.032000	2.996120	42.712529	1.608670	0.018869	0.184209	0.044125	0.003370	0.001921	0.122324	0.000582	0.011794	0.006671	0.001874	0.018735
2-Jan-2029	0.848187	12.227800	19.131000	3.011760	42.935244	1.617040	0.018967	0.185168	0.044355	0.003387	0.001931	0.122966	0.000585	0.011856	0.006706	0.001883	0.018833
3-Jan-2029	0.847911	12.228700	19.132500	3.011970	42.938356	1.617170	0.018968	0.185183	0.044358	0.003388	0.001931	0.122973	0.000585	0.011857	0.006707	0.001883	0.018834
4-Jan-2029	0.847728	12.280200	19.213100	3.024670	43.119250	1.623980	0.019048	0.185963	0.044545	0.003402	0.001939	0.123493	0.000587	0.011907	0.006735	0.001891	0.018914
5-Jan-2029	0.847675	12.313300	19.264700	3.032820	43.235463	1.628340	0.019099	0.186462	0.044665	0.003411	0.001945	0.123828	0.000589	0.011939	0.006753	0.001896	0.018964
6-Jan-2029	0.847455	12.345000	19.314400	3.040600	43.346656	1.632550	0.019149	0.186943	0.044779	0.003420	0.001950	0.124143	0.000590	0.011969	0.006770	0.001901	0.019013
7-Jan-2029	0.847323	12.396500	19.395100	3.053300	43.527550	1.639370	0.019229	0.187724	0.044966	0.003434	0.001958	0.124662	0.000593	0.012019	0.006799	0.001909	0.019093
8-Jan-2029	0.847327	12.438700	19.461100	3.063720	43.675833	1.644940	0.019294	0.188362	0.045120	0.003446	0.001964	0.125090	0.000595	0.012060	0.006822	0.001916	0.019158
9-Jan-2029	0.847139	12.472700	19.514200	3.072070	43.795116	1.649440	0.019347	0.188877	0.045243	0.003455	0.001970	0.125429	0.000596	0.012093	0.006840	0.001921	0.019210
10-Jan-2029	0.846936	12.524200	19.594800	3.084760	43.975969	1.656250	0.019427	0.189657	0.045429	0.003470	0.001978	0.125947	0.000599	0.012143	0.006869	0.001929	0.019289
11-Jan-2029	0.846940	12.567700	19.662700	3.095500	44.128816	1.661980	0.019494	0.190314	0.045587	0.003482	0.001985	0.126390	0.000601	0.012186	0.006892	0.001936	0.019356
12-Jan-2029	0.846744	12.467100	19.505200	3.070800	43.775903	1.648640	0.019338	0.188789	0.045223	0.003454	0.001969	0.125389	0.000596	0.012088	0.006837	0.001920	0.019201
13-Jan-2029	0.846522	12.514200	19.578600	3.082450	43.941487	1.654840	0.019411	0.189500	0.045394	0.003467	0.001977	0.125869	0.000598	0.012134	0.006863	0.001927	0.019274
14-Jan-2029	0.846450	12.533000	19.608400	3.087000	44.007167	1.657380	0.019440	0.189788	0.045461	0.003472	0.001979	0.126048	0.000599	0.012152	0.006873	0.001930	0.019303
15-Jan-2029	0.846340	12.594600	19.704700	3.102170	44.223452	1.665520	0.019536	0.190720	0.045685	0.003489	0.001989	0.126667	0.000602	0.012212	0.006907	0.001940	0.019398
16-Jan-2029	0.846092	12.653100	19.795800	3.116700	44.429361	1.673180	0.019626	0.191601	0.045898	0.003506	0.001999	0.127272	0.000605	0.012269	0.006939	0.001949	0.019488
17-Jan-2029	0.845908	12.700400	19.870300	3.128210	44.594868	1.679520	0.019700	0.192323	0.046069	0.003518	0.002006	0.127728	0.000607	0.012314	0.006965	0.001956	0.019561
18-Jan-2029	0.845893	12.794500	20.017500	3.151400	44.925332	1.691960	0.019846	0.193748	0.046410	0.003545	0.002021	0.128675	0.000612	0.012406	0.007017	0.001971	0.019706
19-Jan-2029	0.845640	12.896300	20.176900	3.176470	45.282765	1.705430	0.020004	0.195290	0.046779	0.003573	0.002037	0.129698	0.000617	0.012504	0.007073	0.001986	0.019862
20-Jan-2029	0.845446	13.000700	20.340100	3.202160	45.649243	1.719230	0.020165	0.196871	0.047158	0.003602	0.002053	0.130747	0.000622	0.012605	0.007130	0.002002	0.020023
21-Jan-2029	0.845329	13.134200	20.549400	3.234920	46.117498	1.736950	0.020373	0.198897	0.047640	0.003638	0.002074	0.132073	0.000628	0.012735	0.007203	0.002023	0.020229
22-Jan-2029	0.845280	13.280800	20.778700	3.271050	46.632342	1.756330	0.020600	0.201116	0.048172	0.003679	0.002097	0.133550	0.000635	0.012877	0.007284	0.002045	0.020455
23-Jan-2029	0.845000	13.402400	20.969000	3.301020	47.059393	1.772410	0.020789	0.202957	0.048614	0.003713	0.002117	0.134776	0.000641	0.012995	0.007350	0.002064	0.020642
24-Jan-2029	0.844968	13.533900	21.174600	3.333440	47.521254	1.789780	0.020993	0.204948	0.049091	0.003749	0.002137	0.136102	0.000647	0.013122	0.007422	0.002084	0.020844
25-Jan-2029	0.844951	13.576000	21.240400	3.343850	47.669246	1.795330	0.021058	0.205584	0.049244	0.003761	0.002144	0.136530	0.000649	0.013163	0.007446	0.002091	0.020909
26-Jan-2029	0.844899	13.598800	21.276200	3.349440	47.749198	1.798370	0.021093	0.205930	0.049326	0.003767	0.002148	0.136756	0.000650	0.013185	0.007458	0.002094	0.020944
27-Jan-2029	0.844848	13.649200	21.355000	3.361810	47.925986	1.805040	0.021172	0.206694	0.049508	0.003781	0.002156	0.137259	0.000653	0.013234	0.007486	0.002102	0.021022
28-Jan-2029	0.844856	13.721600	21.468400	3.379650	48.180234	1.814620	0.021284	0.207791	0.049771	0.003801	0.002167	0.137987	0.000656	0.013304	0.007525	0.002113	0.021134
29-Jan-2029	0.844845	13.790500	21.576100	3.396620	48.422160	1.823720	0.021391	0.208833	0.050021	0.003820	0.002178	0.138681	0.000659	0.013371	0.007563	0.002124	0.021240
30-Jan-2029	0.844815	13.853200	21.674200	3.412090	48.642427	1.832010	0.021488	0.209783	0.050249	0.003838	0.002188	0.139314	0.000662	0.013432	0.007598	0.002134	0.021336
31-Jan-2029	0.844781	13.914900	21.770600	3.427290	48.859086	1.840160	0.021584	0.210716	0.050472	0.003855	0.002198	0.139936	0.000665	0.013492	0.007631	0.002143	0.021431
1-Feb-2029	0.844755	13.973600	21.862500	3.441760	49.065247	1.847920	0.021675	0.211605	0.050685	0.003871	0.002207	0.140528	0.000668	0.013549	0.007664	0.002152	0.021522
2-Feb-2029	0.844729	14.026600	21.945400	3.454810	49.251328	1.854930	0.021757	0.212408	0.050878	0.003886	0.002215	0.141061	0.000671	0.013600	0.007693	0.002160	0.021603
3-Feb-2029	0.844714	14.071400	22.015500	3.465840	49.408615	1.860850	0.021826	0.213086	0.051040	0.003898	0.002222	0.141511	0.000673	0.013643	0.007717	0.002167	0.021672
4-Feb-2029	0.844697	14.122300	22.095100	3.478360	49.587270	1.867580	0.021905	0.213856	0.051224	0.003912	0.002230	0.142023	0.000675	0.013693	0.007745	0.002175	0.021750
5-Feb-2029	0.844685	14.180200	22.185800	3.492640	49.790651	1.875250	0.021995	0.214734	0.051434	0.003928	0.002239	0.142605	0.000678	0.013749	0.007777	0.002184	0.021840
6-Feb-2029	0.844662	14.081400	22.031100	3.468300	49.443715	1.862180	0.021842	0.213237	0.051076	0.003901	0.002224	0.141612	0.000673	0.013653	0.007723	0.002169	0.021688
7-Feb-2029	0.844652	14.113000	22.080500	3.476070	49.554617	1.866360	0.021891	0.213716	0.051190	0.003910	0.002229	0.141929	0.000675	0.013684	0.007740	0.002174	0.021736
8-Feb-2029	0.844639	14.155900	22.147700	3.486650	49.705307	1.872040	0.021958	0.214366	0.051346	0.003922	0.002236	0.142360	0.000677	0.013725	0.007764	0.002180	0.021802

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
9-Feb-2029	0.844626	14.203800	22.222700	3.498430	49.873423	1.878370	0.022032	0.215091	0.051520	0.003935	0.002243	0.142841	0.000679	0.013772	0.007790	0.002188	0.021876
10-Feb-2029	0.844611	14.250900	22.296400	3.510030	50.038801	1.884610	0.022105	0.215805	0.051690	0.003948	0.002251	0.143314	0.000681	0.013817	0.007816	0.002195	0.021949
11-Feb-2029	0.844608	14.309200	22.387600	3.524370	50.243428	1.892320	0.022195	0.216688	0.051901	0.003964	0.002260	0.143899	0.000684	0.013874	0.007848	0.002204	0.022038
12-Feb-2029	0.844602	14.253300	22.300300	3.510590	50.047100	1.884940	0.022109	0.215842	0.051699	0.003949	0.002251	0.143335	0.000682	0.013820	0.007817	0.002195	0.021952
13-Feb-2029	0.844595	14.317300	22.400400	3.526340	50.271766	1.893410	0.022208	0.216812	0.051930	0.003966	0.002261	0.143977	0.000685	0.013882	0.007852	0.002205	0.022051
14-Feb-2029	0.844590	14.383100	22.503400	3.542550	50.502822	1.902120	0.022310	0.217809	0.052169	0.003985	0.002271	0.144638	0.000688	0.013945	0.007888	0.002215	0.022152
15-Feb-2029	0.844589	14.449400	22.607100	3.558860	50.735537	1.910880	0.022413	0.218812	0.052409	0.004003	0.002282	0.145304	0.000691	0.014010	0.007925	0.002225	0.022254
16-Feb-2029	0.844586	14.515400	22.710300	3.575110	50.967257	1.919610	0.022515	0.219811	0.052649	0.004021	0.002292	0.145968	0.000694	0.014074	0.007961	0.002236	0.022356
17-Feb-2029	0.844582	14.581600	22.814000	3.591430	51.199764	1.928380	0.022618	0.220815	0.052889	0.004040	0.002303	0.146634	0.000697	0.014138	0.007997	0.002246	0.022458
18-Feb-2029	0.844578	14.648100	22.918000	3.607810	51.433267	1.937170	0.022721	0.221822	0.053130	0.004058	0.002313	0.147302	0.000700	0.014202	0.008034	0.002256	0.022560
19-Feb-2029	0.844575	14.714200	23.021500	3.624080	51.665319	1.945910	0.022824	0.222823	0.053370	0.004076	0.002324	0.147966	0.000704	0.014266	0.008070	0.002266	0.022662
20-Feb-2029	0.844570	14.778500	23.122000	3.639910	51.891064	1.954410	0.022923	0.223796	0.053603	0.004094	0.002334	0.148612	0.000707	0.014329	0.008105	0.002276	0.022761
21-Feb-2029	0.844566	14.842000	23.221400	3.655540	52.113988	1.962810	0.023022	0.224758	0.053833	0.004112	0.002344	0.149250	0.000710	0.014390	0.008140	0.002286	0.022859
22-Feb-2029	0.844559	14.906100	23.321800	3.671340	52.339110	1.971300	0.023121	0.225730	0.054066	0.004129	0.002354	0.149895	0.000713	0.014452	0.008175	0.002296	0.022958
23-Feb-2029	0.844556	14.974100	23.428100	3.688070	52.577800	1.980280	0.023227	0.226758	0.054312	0.004148	0.002365	0.150578	0.000716	0.014518	0.008212	0.002306	0.023062
24-Feb-2029	0.844553	15.057000	23.558000	3.708440	52.868685	1.991280	0.023356	0.228016	0.054612	0.004171	0.002378	0.151405	0.000720	0.014599	0.008258	0.002319	0.023190
25-Feb-2029	0.844551	15.120100	23.656600	3.724030	53.090445	1.999610	0.023453	0.228971	0.054842	0.004189	0.002388	0.152045	0.000723	0.014660	0.008292	0.002329	0.023287
26-Feb-2029	0.844546	15.158000	23.715900	3.733370	53.223544	2.004620	0.023512	0.229545	0.054979	0.004199	0.002394	0.152426	0.000725	0.014697	0.008313	0.002335	0.023346
27-Feb-2029	0.844542	15.230900	23.830000	3.751320	53.479493	2.014260	0.023625	0.230648	0.055243	0.004219	0.002405	0.153159	0.000728	0.014767	0.008353	0.002346	0.023458
28-Feb-2029	0.844539	15.290000	23.922400	3.765870	53.686983	2.022080	0.023717	0.231543	0.055458	0.004236	0.002415	0.153753	0.000731	0.014825	0.008386	0.002355	0.023549
1-Mar-2029	0.844536	15.338500	23.998300	3.777810	53.857256	2.028490	0.023792	0.232278	0.055633	0.004249	0.002422	0.154240	0.000733	0.014872	0.008412	0.002362	0.023624
2-Mar-2029	0.844533	15.401500	24.097000	3.793330	54.078478	2.036830	0.023890	0.233233	0.055862	0.004267	0.002432	0.154874	0.000737	0.014933	0.008447	0.002372	0.023721
3-Mar-2029	0.844531	15.482100	24.222900	3.813160	54.361397	2.047480	0.024015	0.234452	0.056154	0.004289	0.002445	0.155683	0.000740	0.015011	0.008491	0.002384	0.023845
4-Mar-2029	0.844529	15.572600	24.364600	3.835460	54.679206	2.059450	0.024155	0.235823	0.056482	0.004314	0.002459	0.156594	0.000745	0.015099	0.008541	0.002398	0.023984
5-Mar-2029	0.844528	15.666000	24.510700	3.858450	55.007099	2.071800	0.024300	0.237237	0.056821	0.004340	0.002474	0.157532	0.000749	0.015189	0.008592	0.002413	0.024128
6-Mar-2029	0.844527	15.753700	24.648000	3.880070	55.315117	2.083410	0.024436	0.238566	0.057139	0.004364	0.002488	0.158415	0.000753	0.015274	0.008640	0.002426	0.024263
7-Mar-2029	0.844526	15.840600	24.783900	3.901450	55.620149	2.094890	0.024571	0.239881	0.057454	0.004388	0.002501	0.159288	0.000758	0.015358	0.008688	0.002440	0.024397
8-Mar-2029	0.844525	15.928600	24.921500	3.923120	55.929122	2.106530	0.024707	0.241214	0.057773	0.004413	0.002515	0.160172	0.000762	0.015444	0.008736	0.002453	0.024533
9-Mar-2029	0.844524	16.019400	25.063800	3.945510	56.248052	2.118550	0.024848	0.242590	0.058103	0.004438	0.002530	0.161086	0.000766	0.015532	0.008786	0.002467	0.024673
10-Mar-2029	0.844522	16.112700	25.209700	3.968480	56.575613	2.130890	0.024993	0.244003	0.058441	0.004464	0.002544	0.162024	0.000771	0.015622	0.008837	0.002482	0.024816
11-Mar-2029	0.844521	16.204300	25.353100	3.991040	56.897240	2.143010	0.025135	0.245390	0.058774	0.004489	0.002559	0.162945	0.000775	0.015711	0.008887	0.002496	0.024957
12-Mar-2029	0.844521	16.315500	25.527100	4.018400	57.287575	2.157730	0.025308	0.247075	0.059176	0.004520	0.002576	0.164059	0.000780	0.015819	0.008948	0.002513	0.025129
13-Mar-2029	0.844521	16.409500	25.674200	4.041540	57.617583	2.170160	0.025454	0.248499	0.059517	0.004546	0.002591	0.165004	0.000785	0.015910	0.009000	0.002527	0.025273
14-Mar-2029	0.844522	16.502900	25.820100	4.064570	57.945641	2.182490	0.025598	0.249911	0.059856	0.004572	0.002606	0.165946	0.000789	0.016000	0.009051	0.002542	0.025417
15-Mar-2029	0.844522	16.616600	25.998000	4.092570	58.344853	2.197520	0.025775	0.251633	0.060269	0.004603	0.002624	0.167089	0.000795	0.016111	0.009113	0.002559	0.025592
16-Mar-2029	0.844522	16.734900	26.183100	4.121700	58.760206	2.213170	0.025958	0.253424	0.060698	0.004636	0.002643	0.168279	0.000800	0.016225	0.009178	0.002577	0.025774
17-Mar-2029	0.844523	16.858700	26.376900	4.152210	59.194975	2.229550	0.026150	0.255300	0.061147	0.004670	0.002662	0.169524	0.000806	0.016345	0.009246	0.002597	0.025965
18-Mar-2029	0.844523	16.987900	26.579000	4.184020	59.648581	2.246630	0.026351	0.257256	0.061615	0.004706	0.002683	0.170823	0.000812	0.016471	0.009317	0.002616	0.026164
19-Mar-2029	0.844523	17.122800	26.790100	4.217250	60.122267	2.264480	0.026560	0.259300	0.062105	0.004744	0.002704	0.172180	0.000819	0.016602	0.009391	0.002637	0.026372
20-Mar-2029	0.844524	17.266000	27.014100	4.252510	60.625038	2.283410	0.026782	0.261468	0.062624	0.004783	0.002726	0.173619	0.000826	0.016740	0.009469	0.002659	0.026592
21-Mar-2029	0.844524	17.417900	27.251900	4.289940	61.158469	2.303510	0.027018	0.263769	0.063175	0.004825	0.002750	0.175147	0.000833	0.016888	0.009553	0.002683	0.026826
22-Mar-2029	0.844524	17.577400	27.501400	4.329220	61.718496	2.324600	0.027265	0.266184	0.063754	0.004869	0.002776	0.176751	0.000841	0.017042	0.009640	0.002707	0.027072
23-Mar-2029	0.844524	17.744000	27.762000	4.370240	62.303416	2.346630	0.027524	0.268706	0.064358	0.004916	0.002802	0.178426	0.000849	0.017204	0.009731	0.002733	0.027329
24-Mar-2029	0.844524	17.917700	28.033800	4.413030	62.913354	2.369600	0.027793	0.271337	0.064988	0.004964	0.002829	0.180173	0.000857	0.017372	0.009827	0.002760	0.027596
25-Mar-2029	0.844524	18.098700	28.316900	4.457590	63.548810	2.393530	0.028074	0.274077	0.065644	0.005014	0.002858	0.181992	0.000865	0.017548	0.009926	0.002787	0.027875
26-Mar-2029	0.844524	18.286700	28.611200	4.503920	64.209032	2.418410	0.028365	0.276925	0.066326	0.005066	0.002888	0.183883	0.000874	0.017730	0.010029	0.002816	0.028165
27-Mar-2029	0.844524	18.482000	28.916700	4.552010	64.894731	2.444230	0.028668	0.279882	0.067034	0.005120	0.002919	0.185847	0.000884	0.017919	0.010136	0.002847	0.028465
28-Mar-2029	0.844524	18.684100	29.232900	4.601790	65.604369	2.470960	0.028982	0.282943	0.067768	0.005176	0.002950	0.187879	0.000893	0.018115	0.010247	0.002878	0.028777
29-Mar-2029	0.844524	18.892900	29.559600	4.653220	66.337531	2.498570	0.029306	0.286105	0.068525	0.005234	0.002983	0.189979	0.000903	0.018318	0.010362	0.002910	0.029098
30-Mar-2029	0.844524	19.109400	29.898300	4.706530	67.097662	2.527200	0.029641	0.289383	0.069310	0.005294	0.003018	0.192156	0.000914	0.018528	0.010480	0.002943	0.029432
31-Mar-2029	0.844527	19.333900	30.249500	4.761820	67.885923	2.556890	0.029990	0.292783	0.070124	0.005356	0.003053	0.194413	0.000925	0.018745	0.010603	0.002978	0.029777
1-Apr-2029	0.844527	19.564600	30.610400	4.818640	68.695966	2.587400	0.030347	0.296276	0.070961	0.005420	0.003089	0.196733	0.000936	0.018969	0.010730	0.003013	0.030133

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Apr-2029	0.844527	19.750900	30.901900	4.864530	69.350132	2.612040	0.030636	0.299098	0.071637	0.005472	0.003119	0.198606	0.000944	0.019150	0.010832	0.003042	0.030420
3-Apr-2029	0.844527	19.872000	31.091500	4.894360	69.775358	2.628060	0.030824	0.300932	0.072076	0.005505	0.003138	0.199824	0.000950	0.019267	0.010899	0.003061	0.030606
4-Apr-2029	0.844527	19.959800	31.228700	4.915970	70.083585	2.639660	0.030960	0.302261	0.072394	0.005529	0.003152	0.200707	0.000954	0.019352	0.010947	0.003074	0.030741
5-Apr-2029	0.844527	20.026900	31.333700	4.932500	70.319204	2.648540	0.031065	0.303277	0.072638	0.005548	0.003162	0.201381	0.000958	0.019417	0.010984	0.003084	0.030845
6-Apr-2029	0.844527	20.079600	31.416300	4.945490	70.504289	2.655510	0.031146	0.304076	0.072829	0.005563	0.003171	0.201912	0.000960	0.019468	0.011012	0.003093	0.030926
7-Apr-2029	0.844527	20.122100	31.482700	4.955950	70.653486	2.661130	0.031212	0.304719	0.072983	0.005574	0.003178	0.202339	0.000962	0.019509	0.011036	0.003099	0.030991
8-Apr-2029	0.844527	20.157000	31.537300	4.964540	70.776005	2.665740	0.031266	0.305247	0.073110	0.005584	0.003183	0.202690	0.000964	0.019543	0.011055	0.003104	0.031045
9-Apr-2029	0.844527	20.186200	31.583000	4.971730	70.878526	2.669600	0.031312	0.305689	0.073215	0.005592	0.003188	0.202983	0.000965	0.019572	0.011071	0.003109	0.031090
10-Apr-2029	0.844527	20.211000	31.621800	4.977840	70.965612	2.672880	0.031350	0.306065	0.073305	0.005599	0.003192	0.203232	0.000966	0.019596	0.011084	0.003113	0.031128
11-Apr-2029	0.844527	20.230000	31.651600	4.982530	71.032369	2.675400	0.031380	0.306353	0.073374	0.005604	0.003195	0.203424	0.000967	0.019614	0.011095	0.003116	0.031157
12-Apr-2029	0.844527	20.247100	31.678300	4.986740	71.092404	2.677660	0.031406	0.306612	0.073436	0.005609	0.003197	0.203596	0.000968	0.019631	0.011104	0.003118	0.031184
13-Apr-2029	0.844527	20.262100	31.701700	4.990430	71.145054	2.679640	0.031429	0.306839	0.073491	0.005613	0.003200	0.203746	0.000969	0.019645	0.011112	0.003121	0.031207
14-Apr-2029	0.844527	20.275300	31.722400	4.993680	71.191398	2.681380	0.031450	0.307038	0.073539	0.005617	0.003202	0.203879	0.000970	0.019658	0.011120	0.003123	0.031227
15-Apr-2029	0.844527	20.287100	31.740900	4.996590	71.232846	2.682950	0.031468	0.307218	0.073581	0.005620	0.003204	0.203998	0.000970	0.019669	0.011126	0.003125	0.031245
16-Apr-2029	0.844527	20.297900	31.757800	4.999260	71.270809	2.684380	0.031485	0.307382	0.073621	0.005623	0.003205	0.204107	0.000971	0.019680	0.011132	0.003126	0.031262
17-Apr-2029	0.844527	20.307900	31.773400	5.001710	71.305868	2.685700	0.031500	0.307533	0.073657	0.005626	0.003207	0.204207	0.000971	0.019690	0.011138	0.003128	0.031277
18-Apr-2029	0.844527	20.317000	31.787700	5.003960	71.337856	2.686910	0.031515	0.307671	0.073690	0.005628	0.003208	0.204299	0.000972	0.019698	0.011143	0.003129	0.031291
19-Apr-2029	0.844527	20.325500	31.801000	5.006060	71.367729	2.688030	0.031528	0.307800	0.073721	0.005631	0.003210	0.204385	0.000972	0.019707	0.011147	0.003130	0.031305
20-Apr-2029	0.844527	20.333500	31.813600	5.008030	71.395817	2.689090	0.031540	0.307921	0.073750	0.005633	0.003211	0.204465	0.000972	0.019714	0.011152	0.003132	0.031317
21-Apr-2029	0.844527	20.341100	31.825400	5.009900	71.422495	2.690100	0.031552	0.308036	0.073777	0.005635	0.003212	0.204541	0.000973	0.019722	0.011156	0.003133	0.031329
22-Apr-2029	0.844527	20.348300	31.836600	5.011660	71.447721	2.691040	0.031563	0.308144	0.073803	0.005637	0.003213	0.204613	0.000973	0.019729	0.011160	0.003134	0.031340
23-Apr-2029	0.844527	20.354900	31.847000	5.013300	71.470955	2.691920	0.031573	0.308245	0.073828	0.005639	0.003214	0.204680	0.000973	0.019735	0.011163	0.003135	0.031350
24-Apr-2029	0.844527	20.361200	31.856800	5.014830	71.492986	2.692750	0.031583	0.308339	0.073850	0.005641	0.003215	0.204743	0.000974	0.019741	0.011167	0.003136	0.031359
25-Apr-2029	0.844527	20.367000	31.865800	5.016260	71.513358	2.693510	0.031592	0.308427	0.073871	0.005642	0.003216	0.204801	0.000974	0.019747	0.011170	0.003137	0.031368
26-Apr-2029	0.844527	20.372300	31.874200	5.017580	71.532028	2.694220	0.031600	0.308508	0.073891	0.005644	0.003217	0.204855	0.000974	0.019752	0.011173	0.003138	0.031377
27-Apr-2029	0.844527	20.377200	31.881900	5.018790	71.549246	2.694870	0.031608	0.308583	0.073908	0.005645	0.003218	0.204904	0.000974	0.019757	0.011176	0.003138	0.031384
28-Apr-2029	0.844527	20.381700	31.889000	5.019900	71.565053	2.695470	0.031615	0.308651	0.073925	0.005646	0.003219	0.204950	0.000975	0.019761	0.011178	0.003139	0.031391
29-Apr-2029	0.844527	20.385900	31.895500	5.020920	71.579741	2.696020	0.031621	0.308714	0.073940	0.005648	0.003219	0.204991	0.000975	0.019765	0.011180	0.003140	0.031398
30-Apr-2029	0.844510	20.389500	31.901100	5.021820	71.592436	2.696500	0.031627	0.308769	0.073953	0.005649	0.003220	0.205028	0.000975	0.019769	0.011182	0.003140	0.031403
1-May-2029	0.843848	20.381500	31.888600	5.019850	71.564348	2.695440	0.031615	0.308648	0.073924	0.005646	0.003218	0.204948	0.000975	0.019761	0.011178	0.003139	0.031391
2-May-2029	0.839862	20.224800	31.643500	4.981260	71.014154	2.674720	0.031372	0.306275	0.073356	0.005603	0.003194	0.203372	0.000967	0.019609	0.011092	0.003115	0.031149
3-May-2029	0.834319	19.899300	31.134200	4.901090	69.871241	2.631670	0.030867	0.301346	0.072175	0.005513	0.003142	0.200099	0.000952	0.019293	0.010914	0.003065	0.030648
4-May-2029	0.830509	19.497500	30.505500	4.802110	68.460346	2.578520	0.030243	0.295260	0.070718	0.005401	0.003079	0.196058	0.000932	0.018904	0.010693	0.003003	0.030029
5-May-2029	0.825723	19.049400	29.804500	4.691760	66.887019	2.519270	0.029548	0.288475	0.069092	0.005277	0.003008	0.191552	0.000911	0.018469	0.010447	0.002934	0.029339
6-May-2029	0.821085	18.618000	29.129500	4.585510	65.372276	2.462220	0.028879	0.281942	0.067528	0.005158	0.002940	0.187214	0.000890	0.018051	0.010211	0.002867	0.028675
7-May-2029	0.817559	18.257500	28.565400	4.496710	64.106429	2.414540	0.028320	0.276482	0.066220	0.005058	0.002883	0.183589	0.000873	0.017702	0.010013	0.002812	0.028119
8-May-2029	0.814336	17.957200	28.095600	4.422750	63.052013	2.374830	0.027854	0.271935	0.065131	0.004975	0.002836	0.180569	0.000859	0.017410	0.009848	0.002766	0.027657
9-May-2029	0.810920	17.656800	27.625600	4.348760	61.997223	2.335100	0.027388	0.267386	0.064041	0.004891	0.002788	0.177548	0.000844	0.017119	0.009684	0.002719	0.027194
10-May-2029	0.803947	17.508900	27.394200	4.312330	61.477898	2.315540	0.027159	0.265146	0.063505	0.004850	0.002765	0.176061	0.000837	0.016976	0.009603	0.002697	0.026967
11-May-2029	0.801386	17.246900	26.984300	4.247800	60.557950	2.280890	0.026752	0.261179	0.062555	0.004778	0.002723	0.173426	0.000825	0.016722	0.009459	0.002656	0.026563
12-May-2029	0.791966	16.996600	26.592600	4.186150	59.679076	2.247790	0.026364	0.257388	0.061647	0.004709	0.002684	0.170909	0.000813	0.016479	0.009322	0.002618	0.026177
13-May-2029	0.789561	16.776200	26.247800	4.131860	58.905171	2.218640	0.026022	0.254050	0.060847	0.004647	0.002649	0.168692	0.000802	0.016265	0.009201	0.002584	0.025838
14-May-2029	0.783033	16.210200	25.362300	3.992470	56.917861	2.143800	0.025144	0.245480	0.058794	0.004491	0.002560	0.163001	0.000775	0.015717	0.008890	0.002497	0.024966
15-May-2029	0.775337	15.458600	24.186400	3.807290	54.278544	2.044410	0.023979	0.234098	0.056067	0.004282	0.002441	0.155437	0.000739	0.014988	0.008478	0.002381	0.023809
16-May-2029	0.763485	15.339100	23.999600	3.777880	53.859043	2.028620	0.023793	0.232290	0.055634	0.004249	0.002422	0.154237	0.000734	0.014872	0.008413	0.002362	0.023625
17-May-2029	0.761518	15.230700	23.830000	3.751190	53.478458	2.014280	0.023625	0.230648	0.055241	0.004219	0.002405	0.153147	0.000728	0.014767	0.008353	0.002346	0.023458
18-May-2029	0.756055	15.126200	23.666400	3.725440	53.111483	2.000450	0.023463	0.229065	0.054862	0.004190	0.002389	0.152095	0.000723	0.014666	0.008296	0.002330	0.023297
19-May-2029	0.753772	14.946800	23.385700	3.681250	52.481547	1.976720	0.023185	0.226348	0.054212	0.004141	0.002360	0.150292	0.000715	0.014492	0.008197	0.002302	0.023020
20-May-2029	0.759081	14.676900	22.963400	3.614830	51.534089	1.941010	0.022766	0.222259	0.053235	0.004066	0.002318	0.147581	0.000702	0.014230	0.008049	0.002260	0.022605
21-May-2029	0.763571	14.320900	22.406100	3.527160	50.284132	1.893900	0.022213	0.216864	0.051945	0.003967	0.002261	0.144003	0.000685	0.013885	0.007854	0.002206	0.022056
22-May-2029	0.768157	14.059200	21.996600	3.462740	49.365386	1.859270	0.021807	0.212900	0.050997	0.003895	0.002220	0.141373	0.000672	0.013631	0.007711	0.002165	0.021653
23-May-2029	0.770831	13.732600	21.485500	3.382320	48.218696	1.816060	0.021301	0.207952	0.049814	0.003804	0.002169	0.138091	0.000657	0.013315	0.007531	0.002115	0.021150

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24-May-2029	0.774602	13.940400	21.810000	3.433730	48.949279	1.843390	0.021622	0.211085	0.050578	0.003862	0.002202	0.140197	0.000667	0.013517	0.007645	0.002147	0.021470
25-May-2029	0.774673	12.939700	20.244700	3.187110	45.434950	1.711150	0.020070	0.195940	0.046941	0.003584	0.002044	0.130123	0.000619	0.012546	0.007097	0.001993	0.019929
26-May-2029	0.778392	12.661400	19.809200	3.118590	44.457869	1.674320	0.019638	0.191723	0.045933	0.003507	0.002000	0.127327	0.000605	0.012277	0.006944	0.001950	0.019500
27-May-2029	0.789156	12.545000	19.627000	3.089960	44.049320	1.658900	0.019458	0.189958	0.045512	0.003475	0.001981	0.126159	0.000600	0.012164	0.006880	0.001932	0.019321
28-May-2029	0.803775	12.423600	19.436900	3.060070	43.623097	1.642830	0.019269	0.188118	0.045072	0.003441	0.001962	0.124939	0.000594	0.012046	0.006813	0.001913	0.019133
29-May-2029	0.815447	12.296700	19.238400	3.028850	43.177664	1.626050	0.019072	0.186197	0.044612	0.003406	0.001942	0.123667	0.000588	0.011923	0.006744	0.001894	0.018938
30-May-2029	0.821340	12.199500	19.086100	3.004980	42.836659	1.613150	0.018921	0.184722	0.044260	0.003379	0.001927	0.122699	0.000583	0.011829	0.006690	0.001879	0.018788
31-May-2029	0.820028	12.098300	18.927500	2.980140	42.481672	1.599720	0.018764	0.183186	0.043895	0.003351	0.001911	0.121691	0.000578	0.011732	0.006635	0.001863	0.018632
1-Jun-2029	0.817504	11.983800	18.748100	2.952020	42.079967	1.584530	0.018586	0.181447	0.043483	0.003320	0.001893	0.120546	0.000573	0.011621	0.006572	0.001846	0.018456
2-Jun-2029	0.813439	11.794800	18.446800	2.907080	41.422971	1.558370	0.018284	0.178497	0.042885	0.003266	0.001866	0.118766	0.000564	0.011445	0.006468	0.001817	0.018167
3-Jun-2029	0.819584	11.557400	18.067400	2.850920	40.598916	1.525390	0.017904	0.174780	0.043841	0.003198	0.001835	0.116608	0.000552	0.011225	0.006336	0.001780	0.017805
4-Jun-2029	0.834505	11.386300	17.776800	2.815430	40.025532	1.498980	0.017608	0.171869	0.042472	0.003144	0.001827	0.115400	0.000543	0.011089	0.006239	0.001755	0.017553
5-Jun-2029	0.836401	11.122100	17.333400	2.760130	39.138099	1.458520	0.017155	0.167428	0.041759	0.003063	0.001805	0.113693	0.000529	0.010880	0.006090	0.001716	0.017160
6-Jun-2029	0.828214	10.923500	16.995400	2.719660	38.475539	1.426750	0.016807	0.164004	0.041525	0.003000	0.001789	0.112303	0.000518	0.010724	0.005977	0.001687	0.016868
7-Jun-2029	0.819828	10.709100	16.641300	2.676790	37.763644	1.394290	0.016445	0.160455	0.041089	0.002935	0.001770	0.110823	0.000506	0.010560	0.005857	0.001655	0.016546
8-Jun-2029	0.843609	10.541800	16.362700	2.641430	37.200283	1.368650	0.016160	0.157646	0.040991	0.002884	0.001751	0.109478	0.000497	0.010422	0.005763	0.001630	0.016303
9-Jun-2029	0.913570	10.344700	16.025800	2.598320	36.530598	1.336770	0.015811	0.154202	0.040889	0.002821	0.001733	0.107988	0.000486	0.010256	0.005650	0.001600	0.016004
10-Jun-2029	1.028340	10.174400	15.735600	2.560490	35.949575	1.309340	0.015510	0.151222	0.040447	0.002767	0.001723	0.106625	0.000477	0.010110	0.005553	0.001575	0.015750
11-Jun-2029	1.167354	10.000100	15.438700	2.522850	35.359346	1.281300	0.015203	0.148187	0.040160	0.002712	0.001713	0.105454	0.000467	0.009964	0.005454	0.001549	0.015492
12-Jun-2029	1.310286	9.848740	15.176300	2.492910	34.858107	1.255980	0.014929	0.145473	0.040024	0.002662	0.001702	0.104422	0.000459	0.009847	0.005368	0.001527	0.015270
13-Jun-2029	1.429879	9.682260	14.887100	2.460120	34.307377	1.228020	0.014628	0.142484	0.039731	0.002608	0.001687	0.103182	0.000449	0.009723	0.005272	0.001503	0.015026
14-Jun-2029	1.552091	9.502810	14.573100	2.425370	33.716190	1.197430	0.014300	0.139232	0.039446	0.002549	0.001672	0.102156	0.000439	0.009593	0.005169	0.001476	0.014763
15-Jun-2029	1.634931	9.346480	14.304200	2.394260	33.197723	1.171820	0.014022	0.136440	0.039237	0.002500	0.001661	0.101175	0.000430	0.009478	0.005080	0.001453	0.014530
16-Jun-2029	1.684852	9.157650	13.973200	2.356890	32.572325	1.140100	0.013679	0.133008	0.038890	0.002442	0.001645	0.100027	0.000420	0.009337	0.004971	0.001425	0.014253
17-Jun-2029	1.683428	9.004830	13.712700	2.324850	32.058793	1.115130	0.013409	0.130319	0.038678	0.002393	0.001634	0.098995	0.000411	0.009212	0.004885	0.001402	0.014021
18-Jun-2029	1.682911	8.884490	13.505000	2.300740	31.659019	1.095360	0.013195	0.128185	0.038469	0.002356	0.001624	0.098369	0.000404	0.009128	0.004816	0.001384	0.013841
19-Jun-2029	1.773305	8.738950	13.250500	2.271840	31.176595	1.070730	0.012932	0.125565	0.038317	0.002309	0.001614	0.097470	0.000396	0.009013	0.004733	0.001363	0.013627
20-Jun-2029	1.923850	8.614030	13.034900	2.246310	30.759537	1.050250	0.012711	0.123339	0.038168	0.002271	0.001605	0.096715	0.000389	0.008918	0.004662	0.001344	0.013440
21-Jun-2029	2.091159	8.490790	12.820000	2.221780	30.350793	1.029580	0.012489	0.121114	0.038010	0.002233	0.001597	0.096047	0.000382	0.008828	0.004591	0.001326	0.013257
22-Jun-2029	2.217327	8.367360	12.595600	2.198240	29.945650	1.007790	0.012267	0.118744	0.037796	0.002199	0.001586	0.095434	0.000374	0.008747	0.004521	0.001307	0.013075
23-Jun-2029	2.344073	8.254620	12.402500	2.174570	29.566665	0.990127	0.012068	0.116792	0.037599	0.002166	0.001577	0.094722	0.000368	0.008659	0.004457	0.001290	0.012902
24-Jun-2029	2.515965	8.123310	12.173500	2.148320	29.130687	0.967652	0.011833	0.114380	0.037471	0.002126	0.001568	0.093978	0.000361	0.008562	0.004382	0.001271	0.012705
25-Jun-2029	2.707154	8.021320	11.995700	2.127780	28.791434	0.950652	0.011650	0.112546	0.037346	0.002095	0.001559	0.093415	0.000355	0.008486	0.004324	0.001255	0.012552
26-Jun-2029	2.851080	7.879460	11.757400	2.099740	28.321741	0.927982	0.011395	0.110133	0.037220	0.002051	0.001550	0.092680	0.000347	0.008384	0.004243	0.001234	0.012340
27-Jun-2029	2.987781	7.807720	11.618600	2.085920	28.085695	0.914195	0.011265	0.108648	0.037204	0.002030	0.001545	0.092357	0.000343	0.008334	0.004202	0.001223	0.012234
28-Jun-2029	3.132736	7.650450	11.339800	2.055650	27.568340	0.887041	0.010979	0.105769	0.037173	0.001982	0.001535	0.091589	0.000333	0.008224	0.004112	0.001200	0.012003
29-Jun-2029	3.364425	7.539740	11.160700	2.031090	27.190759	0.870559	0.010783	0.103984	0.037080	0.001945	0.001529	0.090957	0.000328	0.008131	0.004049	0.001183	0.011828
30-Jun-2029	3.551145	7.436260	10.965300	2.012740	26.856805	0.851709	0.010597	0.101978	0.036932	0.001920	0.001523	0.090543	0.000321	0.008069	0.003990	0.001168	0.011677
1-Jul-2029	5.634465	5.808020	8.159170	1.687620	21.452245	0.582548	0.007681	0.073395	0.034049	0.001405	0.001403	0.081338	0.000230	0.006811	0.003059	0.000927	0.009266
2-Jul-2029	6.932175	6.013840	8.537720	1.699250	22.014070	0.625791	0.008105	0.077561	0.034114	0.001518	0.001388	0.083602	0.000243	0.007001	0.003203	0.000953	0.009533
3-Jul-2029	7.456497	6.199420	8.888490	1.733460	22.618340	0.660299	0.008439	0.080904	0.034125	0.001565	0.001389	0.082214	0.000255	0.007095	0.003307	0.000981	0.009812
4-Jul-2029	8.364287	6.569250	9.553620	1.788020	23.766484	0.727868	0.009122	0.087702	0.034402	0.001693	0.001395	0.083418	0.000277	0.007388	0.003535	0.001035	0.010346
5-Jul-2029	9.949714	6.494970	9.414010	1.778520	23.541885	0.714076	0.008990	0.086374	0.034125	0.001680	0.001394	0.084302	0.000273	0.007328	0.003488	0.001022	0.010221
6-Jul-2029	10.157874	6.406370	9.245080	1.764470	23.262793	0.697786	0.008836	0.084834	0.033895	0.001668	0.001391	0.083956	0.000267	0.007270	0.003436	0.001007	0.010073
7-Jul-2029	9.860681	6.413110	9.256610	1.765920	23.285594	0.699173	0.008851	0.084985	0.033797	0.001675	0.001390	0.084133	0.000268	0.007272	0.003440	0.001008	0.010076
8-Jul-2029	10.136967	6.651680	9.695050	1.804000	24.038117	0.743053	0.009286	0.089345	0.034031	0.001747	0.001395	0.084736	0.000282	0.007438	0.003583	0.001044	0.010436
9-Jul-2029	10.660000	6.673540	9.735550	1.807210	24.105920	0.747178	0.009326	0.089747	0.034025	0.001754	0.001395	0.084783	0.000284	0.007453	0.003596	0.001047	0.010467
10-Jul-2029	11.694555	6.844380	10.054000	1.836220	24.651971	0.778891	0.009637	0.092862	0.034064	0.001803	0.001398	0.085050	0.000294	0.007556	0.003695	0.001072	0.010724
11-Jul-2029	10.868182	6.676470	9.743440	1.810200	24.125549	0.747857	0.009330	0.089783	0.033825	0.001756	0.001395	0.084792	0.000284	0.007437	0.003594	0.001046	0.010465
12-Jul-2029	11.775729	6.830940	10.026300	1.834240	24.610258	0.776207	0.009612	0.092600	0.034003	0.001803	0.001398	0.085205	0.000294	0.007548	0.003687	0.001070	0.010698
13-Jul-2029	12.324524	7.008420	10.352000	1.862940	25.171612	0.808768	0.009936	0.095838	0.034173	0.001857	0.001402	0.085701	0.000304	0.007671	0.003793	0.001097	0.010965
14-Jul-2029	13.064476	6.866900	10.084300	1.842970	24.736000	0.781937	0.009677	0.093247	0.033942	0.001825	0.001400	0.086105	0.000295	0.007573	0.003707	0.001074	0.010742

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Jul-2029	13.945035	6.847480	10.048400	1.840270	24.676389	0.778305	0.009640	0.092881	0.033880	0.001820	0.001400	0.085849	0.000294	0.007557	0.003695	0.001071	0.010711
16-Jul-2029	12.940361	6.722570	9.822010	1.822120	24.289747	0.755490	0.009411	0.090587	0.033632	0.001781	0.001397	0.085434	0.000287	0.007456	0.003618	0.001052	0.010521
17-Jul-2029	12.586645	6.711420	9.802830	1.821260	24.258364	0.753465	0.009389	0.090366	0.033557	0.001777	0.001397	0.085358	0.000286	0.007442	0.003610	0.001050	0.010503
18-Jul-2029	11.068963	6.748190	9.870550	1.828100	24.378346	0.760143	0.009455	0.091025	0.033544	0.001788	0.001398	0.085468	0.000288	0.007463	0.003631	0.001056	0.010557
19-Jul-2029	11.107835	6.817350	9.997130	1.839560	24.598231	0.772773	0.009581	0.092283	0.033600	0.001810	0.001400	0.085705	0.000293	0.007510	0.003672	0.001066	0.010661
20-Jul-2029	11.848986	7.012310	10.351300	1.869650	25.208957	0.808314	0.009937	0.095845	0.033875	0.001871	0.001404	0.086343	0.000304	0.007657	0.003790	0.001095	0.010954
21-Jul-2029	12.461231	7.668620	11.557600	1.973560	27.275664	0.929031	0.011135	0.107838	0.034593	0.002066	0.001417	0.087937	0.000345	0.008118	0.004183	0.001195	0.011949
22-Jul-2029	13.435276	7.063020	10.447000	1.880580	25.380589	0.817623	0.010028	0.096750	0.033793	0.001886	0.001405	0.086487	0.000308	0.007675	0.003817	0.001103	0.011028
23-Jul-2029	13.583461	7.464040	11.180000	1.942600	26.637335	0.891139	0.010760	0.104081	0.034309	0.002008	0.001414	0.087572	0.000332	0.007970	0.004060	0.001164	0.011635
24-Jul-2029	14.202296	7.496360	11.237500	1.947750	26.739245	0.896892	0.010819	0.104657	0.034351	0.002019	0.001415	0.087738	0.000334	0.007996	0.004079	0.001168	0.011682
25-Jul-2029	14.657004	7.723520	11.654300	1.983570	27.453971	0.938614	0.011233	0.108805	0.034610	0.002087	0.001419	0.088323	0.000348	0.008157	0.004215	0.001203	0.012026
26-Jul-2029	15.041235	7.866340	11.914500	2.005680	27.901641	0.964702	0.011494	0.111409	0.034806	0.002131	0.001422	0.088759	0.000357	0.008263	0.004302	0.001224	0.012242
27-Jul-2029	15.612157	7.894620	11.969500	2.013380	28.003965	0.969967	0.011544	0.111916	0.034676	0.002140	0.001423	0.088806	0.000359	0.008263	0.004315	0.001228	0.012282
28-Jul-2029	15.973990	7.535560	11.311000	1.958570	26.881685	0.903903	0.010888	0.105344	0.034214	0.002033	0.001416	0.087932	0.000337	0.008002	0.004097	0.001174	0.011736
29-Jul-2029	15.714420	7.894860	11.966800	2.012630	28.001476	0.969756	0.011544	0.111907	0.034716	0.002141	0.001423	0.088919	0.000358	0.008272	0.004316	0.001228	0.012281
30-Jul-2029	16.115088	7.632070	11.490800	1.974100	27.186623	0.921741	0.011060	0.107068	0.034208	0.002058	0.001418	0.087996	0.000343	0.008061	0.004154	0.001188	0.011881
31-Jul-2029	15.137108	7.442170	11.143900	1.946200	26.597550	0.886857	0.010713	0.103586	0.033886	0.002002	0.001414	0.087506	0.000331	0.007914	0.004038	0.001159	0.011591
1-Aug-2029	14.928143	7.442210	11.144500	1.949120	26.609675	0.886680	0.010709	0.103533	0.033751	0.002003	0.001415	0.087567	0.000331	0.007900	0.004035	0.001158	0.011585
2-Aug-2029	14.689555	7.598630	11.427800	1.973490	27.100611	0.915027	0.010991	0.106354	0.033949	0.002054	0.001418	0.088181	0.000340	0.008017	0.004130	0.001182	0.011820
3-Aug-2029	14.370545	7.522950	11.293700	1.963340	26.869840	0.901261	0.010847	0.104902	0.033748	0.002027	0.001417	0.087775	0.000336	0.007948	0.004081	0.001171	0.011706
4-Aug-2029	14.981894	7.560600	11.361900	1.969990	26.991237	0.907972	0.010912	0.105552	0.033762	0.002040	0.001418	0.087925	0.000338	0.007973	0.004103	0.001176	0.011761
5-Aug-2029	14.061124	7.790780	11.786100	2.006420	27.716015	0.950286	0.011328	0.109707	0.034003	0.002106	0.001422	0.088403	0.000352	0.008133	0.004241	0.001211	0.012111
6-Aug-2029	13.887567	7.744730	11.704700	2.000910	27.578338	0.941875	0.011238	0.108808	0.033852	0.002090	0.001422	0.088171	0.000350	0.008088	0.004211	0.001204	0.012041
7-Aug-2029	13.078057	7.952760	12.086100	2.033810	28.233271	0.979958	0.011614	0.112561	0.034087	0.002153	0.001426	0.088732	0.000362	0.008235	0.004336	0.001236	0.012355
8-Aug-2029	13.598059	7.863030	11.919400	2.020630	27.954940	0.963180	0.011448	0.110902	0.033938	0.002128	0.001425	0.088608	0.000357	0.008170	0.004281	0.001222	0.012216
9-Aug-2029	13.589088	8.064970	12.290700	2.053220	28.593390	1.000210	0.011812	0.114531	0.034128	0.002189	0.001429	0.089132	0.000369	0.008308	0.004402	0.001252	0.012521
10-Aug-2029	12.758961	7.845510	11.885900	2.021570	27.915064	0.959407	0.011405	0.110451	0.033753	0.002128	0.001425	0.088789	0.000356	0.008141	0.004267	0.001218	0.012181
11-Aug-2029	12.331802	7.833440	11.867500	2.020960	27.882413	0.957313	0.011379	0.110185	0.033646	0.002120	0.001425	0.088567	0.000355	0.008121	0.004258	0.001216	0.012164
12-Aug-2029	13.260257	7.680450	11.591300	2.000220	27.414990	0.929183	0.011090	0.107280	0.033296	0.002073	0.001422	0.088273	0.000346	0.007990	0.004161	0.001193	0.011927
13-Aug-2029	12.184741	7.955670	12.095200	2.043060	28.278629	0.979613	0.011590	0.112281	0.033613	0.002155	0.001428	0.088770	0.000363	0.008189	0.004327	0.001235	0.012346
14-Aug-2029	11.736786	7.894750	11.981700	2.034060	28.089450	0.968213	0.011477	0.111153	0.033516	0.002139	0.001427	0.088737	0.000359	0.008145	0.004290	0.001225	0.012251
15-Aug-2029	11.711761	8.181920	12.506000	2.078140	28.988035	1.020790	0.012000	0.116383	0.033913	0.002227	0.001433	0.089563	0.000377	0.008359	0.004464	0.001269	0.012685
16-Aug-2029	11.596082	8.701960	13.459100	2.159410	30.621245	1.116130	0.012944	0.125824	0.034554	0.002382	0.001443	0.090897	0.000408	0.008734	0.004778	0.001347	0.013474
17-Aug-2029	10.322376	8.104270	12.356600	2.063770	28.734967	1.005950	0.011850	0.114849	0.033885	0.002210	0.001431	0.089665	0.000372	0.008321	0.004421	0.001256	0.012560
18-Aug-2029	9.701920	8.146780	12.437800	2.073000	28.879124	1.013720	0.011921	0.115558	0.033816	0.002221	0.001432	0.089695	0.000374	0.008335	0.004443	0.001262	0.012625
19-Aug-2029	9.633196	8.453460	12.998800	2.120340	29.839850	1.069930	0.012479	0.121144	0.034223	0.002313	0.001439	0.090523	0.000393	0.008561	0.004629	0.001309	0.013089
20-Aug-2029	9.968551	8.548860	13.174500	2.136530	30.144734	1.087320	0.012649	0.122842	0.034286	0.002341	0.001441	0.090749	0.000399	0.008623	0.004685	0.001323	0.013233
21-Aug-2029	9.169655	8.389220	12.887400	2.114910	29.657082	1.058100	0.012350	0.119843	0.033916	0.002291	0.001438	0.090165	0.000389	0.008485	0.004584	0.001299	0.012991
22-Aug-2029	9.290030	8.307880	12.737800	2.105610	29.415678	1.042720	0.012191	0.118233	0.033652	0.002269	0.001437	0.090082	0.000384	0.008410	0.004532	0.001286	0.012860
23-Aug-2029	9.809473	8.653060	13.370600	2.158660	30.496053	1.106100	0.012819	0.124525	0.034100	0.002371	0.001444	0.090922	0.000405	0.008662	0.004740	0.001338	0.013384
24-Aug-2029	9.751429	8.410610	12.925700	2.123610	29.746319	1.061250	0.012369	0.120008	0.033662	0.002302	0.001439	0.090655	0.000391	0.008474	0.004591	0.001301	0.013011
25-Aug-2029	10.101804	8.592920	13.258300	2.151880	30.317963	1.094550	0.012700	0.123316	0.033894	0.002358	0.001443	0.090992	0.000402	0.008609	0.004702	0.001329	0.013286
26-Aug-2029	10.461973	8.299520	12.723800	2.109580	29.411152	1.040530	0.012154	0.117852	0.033357	0.002270	0.001438	0.090185	0.000384	0.008377	0.004521	0.001284	0.012839
27-Aug-2029	9.559089	8.277990	12.686200	2.106570	29.344996	1.036670	0.012115	0.117452	0.033287	0.002260	0.001437	0.090000	0.000383	0.008356	0.004507	0.001281	0.012807
28-Aug-2029	8.499568	8.319810	12.763000	2.114360	29.481500	1.044170	0.012186	0.118156	0.033274	0.002274	0.001438	0.090142	0.000385	0.008380	0.004531	0.001287	0.012868
29-Aug-2029	8.375081	8.309440	12.745700	2.113610	29.452518	1.042280	0.012164	0.117936	0.033206	0.002268	0.001438	0.090019	0.000385	0.008366	0.004523	0.001285	0.012852
30-Aug-2029	8.518369	8.986690	13.982200	2.217020	31.569453	1.166340	0.013400	0.130303	0.034167	0.002474	0.001452	0.091931	0.000426	0.008872	0.004934	0.001388	0.013877
31-Aug-2029	8.248861	8.778150	13.603900	2.186550	30.923253	1.128140	0.013015	0.126445	0.033788	0.002409	0.001448	0.091240	0.000413	0.008706	0.004806	0.001356	0.013561
1-Sep-2029	8.144265	8.953130	13.923900	2.213710	31.472023	1.160170	0.013332	0.129614	0.034000	0.002462	0.001452	0.091717	0.000424	0.008833	0.004911	0.001382	0.013825
2-Sep-2029	8.238772	9.009060	14.027500	2.222560	31.648125	1.170560	0.013433	0.130623	0.034038	0.002479	0.001452	0.091838	0.000427	0.008871	0.004945	0.001391	0.013909
3-Sep-2029	8.547854	9.000290	14.013400	2.221870	31.623385	1.169260	0.013415	0.130439	0.033930	0.002480	0.001451	0.091890	0.000427	0.008856	0.004939	0.001389	0.013891
4-Sep-2029	7.720406	8.568940	13.227900	2.156630	30.277646	1.090470	0.012626	0.122549	0.033237	0.002350	0.001441	0.090649	0.000401	0.008526	0.004676	0.001324	0.013236

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Sep-2029	7.622782	8.574420	13.237500	2.158300	30.298206	1.091520	0.012632	0.122607	0.033159	0.002358	0.001441	0.090873	0.000401	0.008525	0.004679	0.001324	0.013237
6-Sep-2029	7.199080	8.605310	13.295300	2.162970	30.394570	1.097360	0.012689	0.123182	0.033173	0.002366	0.001441	0.090898	0.000403	0.008545	0.004697	0.001328	0.013284
7-Sep-2029	6.376474	8.657770	13.393400	2.170640	30.557147	1.107300	0.012787	0.124164	0.033231	0.002381	0.001441	0.090936	0.000406	0.008582	0.004729	0.001337	0.013365
8-Sep-2029	5.935138	8.709580	13.490200	2.178620	30.719378	1.117080	0.012882	0.125118	0.033262	0.002396	0.001442	0.091024	0.000410	0.008616	0.004760	0.001344	0.013443
9-Sep-2029	5.675863	8.767950	13.598900	2.187720	30.902602	1.128040	0.012989	0.126190	0.033299	0.002414	0.001442	0.091138	0.000413	0.008654	0.004795	0.001353	0.013530
10-Sep-2029	5.685689	8.750090	13.567300	2.185370	30.848328	1.124960	0.012955	0.125848	0.033205	0.002411	0.001441	0.091146	0.000412	0.008636	0.004784	0.001350	0.013500
11-Sep-2029	5.205644	8.876570	13.803400	2.204840	31.244326	1.148710	0.013189	0.128195	0.033328	0.002446	0.001442	0.091285	0.000420	0.008721	0.004860	0.001369	0.013693
12-Sep-2029	4.432603	8.849940	13.755100	2.200530	31.160083	1.143950	0.013140	0.127704	0.033267	0.002440	0.001441	0.091231	0.000419	0.008700	0.004844	0.001365	0.013651
13-Sep-2029	4.141479	8.864110	13.781000	2.203000	31.205637	1.146630	0.013164	0.127947	0.033240	0.002447	0.001441	0.091360	0.000420	0.008708	0.004852	0.001367	0.013669
14-Sep-2029	3.251868	8.967350	13.971600	2.218530	31.527379	1.165830	0.013355	0.129852	0.033368	0.002477	0.001443	0.091564	0.000426	0.008782	0.004915	0.001383	0.013826
15-Sep-2029	2.290381	8.998890	14.031000	2.223510	31.626643	1.171820	0.013412	0.130432	0.033376	0.002486	0.001443	0.091602	0.000428	0.008802	0.004934	0.001387	0.013874
16-Sep-2029	2.046149	8.966580	13.974600	2.218680	31.526075	1.166210	0.013354	0.129849	0.033284	0.002476	0.001441	0.091420	0.000426	0.008772	0.004914	0.001382	0.013824
17-Sep-2029	1.884653	9.225880	14.448500	2.258560	32.337772	1.213720	0.013827	0.134589	0.033644	0.002554	0.001447	0.092135	0.000442	0.008964	0.005071	0.001422	0.014217
18-Sep-2029	1.865985	9.248560	14.494000	2.261370	32.405976	1.218550	0.013871	0.135032	0.033619	0.002561	0.001446	0.092085	0.000443	0.008975	0.005085	0.001425	0.014251
19-Sep-2029	1.898782	9.676970	15.277500	2.326430	33.743633	1.297260	0.014655	0.142874	0.034219	0.002691	0.001454	0.093257	0.000470	0.009294	0.005345	0.001490	0.014899
20-Sep-2029	1.824239	9.212930	14.431800	2.256120	32.295388	1.212440	0.013806	0.134378	0.033483	0.002551	0.001443	0.091951	0.000441	0.008941	0.005063	0.001419	0.014193
21-Sep-2029	1.702440	9.437340	14.844400	2.290590	32.997688	1.253870	0.014217	0.138493	0.033758	0.002618	0.001447	0.092477	0.000455	0.009103	0.005198	0.001453	0.014534
22-Sep-2029	1.522132	9.491040	14.964500	2.299280	33.167562	1.267510	0.014323	0.139540	0.033313	0.002650	0.001441	0.092489	0.000460	0.009079	0.005227	0.001458	0.014585
23-Sep-2029	1.318449	9.191150	14.396700	2.253520	32.230297	1.209100	0.013767	0.133984	0.033313	0.002547	0.001441	0.091840	0.000440	0.008911	0.005048	0.001416	0.014156
24-Sep-2029	1.137023	9.255080	14.515900	2.263340	32.430369	1.221080	0.013884	0.135167	0.033374	0.002565	0.001442	0.091909	0.000444	0.008954	0.005087	0.001425	0.014254
25-Sep-2029	0.553287	9.390840	14.766000	2.283820	32.853698	1.246350	0.014134	0.137664	0.033528	0.002607	0.001444	0.092260	0.000453	0.009052	0.005169	0.001446	0.014459
26-Sep-2029	0.867546	9.431890	14.843500	2.290220	32.982555	1.254260	0.014209	0.138415	0.033516	0.002620	0.001443	0.092355	0.000455	0.009076	0.005193	0.001452	0.014517
27-Sep-2029	0.787276	9.395700	14.778100	2.284740	32.869622	1.247730	0.014143	0.137755	0.033441	0.002610	0.001442	0.092238	0.000453	0.009047	0.005171	0.001446	0.014462
28-Sep-2029	0.451525	9.563490	15.087800	2.310620	33.395168	1.278790	0.014450	0.140839	0.033638	0.002658	0.001445	0.092552	0.000464	0.009166	0.005272	0.001472	0.014718
29-Sep-2029	0.017931	9.362180	14.719700	2.279970	32.766280	1.241900	0.014082	0.137155	0.033343	0.002598	0.001441	0.092046	0.000451	0.009016	0.005150	0.001441	0.014412
30-Sep-2029	0.009405	9.400750	14.792600	2.286140	32.887997	1.249330	0.014153	0.137868	0.033322	0.002611	0.001441	0.092128	0.000454	0.009038	0.005173	0.001447	0.014468
1-Oct-2029	0.007876	9.304560	14.619000	2.271760	32.588594	1.231970	0.013979	0.136123	0.033138	0.002582	0.001438	0.091826	0.000448	0.008960	0.005114	0.001432	0.014322
2-Oct-2029	0.014209	9.271480	14.559100	2.265930	32.481985	1.226170	0.013920	0.135536	0.033086	0.002574	0.001437	0.091761	0.000446	0.008937	0.005095	0.001427	0.014271
3-Oct-2029	0.157057	9.249540	14.519200	2.262160	32.411676	1.222270	0.013881	0.135146	0.033056	0.002568	0.001437	0.091711	0.000445	0.008921	0.005082	0.001424	0.014237
4-Oct-2029	0.277723	9.241170	14.503800	2.260930	32.385711	1.220710	0.013866	0.134994	0.033047	0.002565	0.001436	0.091672	0.000444	0.008915	0.005077	0.001422	0.014225
5-Oct-2029	0.148844	9.234500	14.492000	2.259760	32.364238	1.219560	0.013854	0.134879	0.033041	0.002563	0.001436	0.091633	0.000444	0.008910	0.005073	0.001421	0.014215
6-Oct-2029	0.020698	9.187370	14.406400	2.252020	32.214681	1.211030	0.013770	0.134041	0.033016	0.002548	0.001434	0.091463	0.000441	0.008877	0.005045	0.001415	0.014145
7-Oct-2029	0.109218	9.205480	14.440500	2.254510	32.270156	1.214600	0.013804	0.134379	0.033114	0.002555	0.001436	0.091524	0.000442	0.008888	0.005056	0.001417	0.014171
8-Oct-2029	0.188866	9.194620	14.421000	2.252720	32.235667	1.212670	0.013784	0.134188	0.033007	0.002551	0.001434	0.091478	0.000441	0.008880	0.005050	0.001415	0.014155
9-Oct-2029	0.244466	9.185540	14.404800	2.251110	32.206364	1.211100	0.013769	0.134031	0.033046	0.002548	0.001434	0.091438	0.000441	0.008873	0.005044	0.001414	0.014141
10-Oct-2029	0.170270	9.165620	14.369100	2.247700	32.142582	1.207590	0.013734	0.133683	0.033050	0.002542	0.001434	0.091352	0.000440	0.008858	0.005032	0.001411	0.014112
11-Oct-2029	0.031074	9.137130	14.317400	2.243040	32.052252	1.202450	0.013683	0.133177	0.032948	0.002533	0.001432	0.091251	0.000438	0.008838	0.005015	0.001407	0.014069
12-Oct-2029	0.016110	9.117550	14.282500	2.239730	31.989730	1.199020	0.013648	0.132836	0.032909	0.002527	0.001431	0.091182	0.000437	0.008824	0.005004	0.001404	0.014040
13-Oct-2029	0.084813	9.092620	14.237900	2.235630	31.910596	1.194670	0.013605	0.132402	0.032874	0.002519	0.001430	0.091081	0.000435	0.008805	0.004989	0.001400	0.014003
14-Oct-2029	0.108028	9.084520	14.223100	2.234190	31.884441	1.193240	0.013590	0.132255	0.032857	0.002517	0.001430	0.091050	0.000435	0.008798	0.004984	0.001399	0.013991
15-Oct-2029	0.143447	9.064400	14.187300	2.230720	31.819912	1.189680	0.013555	0.131906	0.032833	0.002510	0.001429	0.090947	0.000434	0.008783	0.004972	0.001396	0.013961
16-Oct-2029	0.134855	9.069360	14.197300	2.231190	31.834232	1.190750	0.013565	0.132007	0.032838	0.002512	0.001429	0.090947	0.000434	0.008786	0.004975	0.001397	0.013969
17-Oct-2029	0.133164	9.167260	14.349800	2.255530	32.178921	1.203460	0.013710	0.133422	0.033193	0.002539	0.001444	0.091935	0.000439	0.008882	0.005029	0.001412	0.014120
18-Oct-2029	0.136557	9.241490	14.464100	2.274410	32.442021	1.212850	0.013819	0.134479	0.033478	0.002559	0.001457	0.092736	0.000442	0.008955	0.005069	0.001423	0.014234
19-Oct-2029	0.136027	9.306070	14.565600	2.290180	32.668218	1.221400	0.013916	0.135423	0.033707	0.002577	0.001467	0.093376	0.000445	0.009017	0.005105	0.001433	0.014333
20-Oct-2029	0.136284	9.343130	14.623500	2.299330	32.798437	1.226240	0.013971	0.135961	0.033844	0.002587	0.001473	0.093746	0.000447	0.009054	0.005125	0.001439	0.014391
21-Oct-2029	0.139810	9.332680	14.606900	2.296820	32.762007	1.224850	0.013956	0.135806	0.033803	0.002585	0.001471	0.093663	0.000447	0.009044	0.005119	0.001437	0.014374
22-Oct-2029	0.139178	9.361850	14.651700	2.304280	32.865564	1.228500	0.013998	0.136220	0.033920	0.002593	0.001476	0.093969	0.000448	0.009073	0.005135	0.001442	0.014419
23-Oct-2029	0.139882	9.357440	14.643900	2.303510	32.851382	1.227730	0.013991	0.136144	0.033918	0.002591	0.001476	0.093940	0.000448	0.009069	0.005133	0.001441	0.014413
24-Oct-2029	0.140654	9.373780	14.668800	2.307810	32.909890	1.229710	0.014014	0.136372	0.033988	0.002595	0.001479	0.094114	0.000448	0.009086	0.005141	0.001444	0.014439
25-Oct-2029	0.140528	9.414770	14.731700	2.318360	33.055687	1.234830	0.014074	0.136952	0.034151	0.002606	0.001486	0.094556	0.000450	0.009127	0.005163	0.001450	0.014502
26-Oct-2029	0.138345	9.445260	14.779300	2.325900	33.162870	1.238810	0.014119	0.137394	0.034261	0.002615	0.001491	0.094866	0.000452	0.009156	0.005180	0.001455	0.014549

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
27-Oct-2029	0.136344	9.477490	14.830200	2.333670	33.275346	1.243140	0.014168	0.137869	0.034373	0.002624	0.001496	0.095179	0.000453	0.009187	0.005198	0.001460	0.014599
28-Oct-2029	0.135044	9.520040	14.897000	2.344090	33.424503	1.248760	0.014232	0.138490	0.034524	0.002636	0.001503	0.095604	0.000455	0.009228	0.005221	0.001466	0.014664
29-Oct-2029	0.133222	9.568290	14.972800	2.355840	33.593369	1.255170	0.014304	0.139197	0.034693	0.002649	0.001510	0.096086	0.000458	0.009275	0.005248	0.001474	0.014738
30-Oct-2029	0.131911	9.617260	15.050700	2.367380	33.763169	1.261870	0.014379	0.139927	0.034856	0.002663	0.001517	0.096549	0.000460	0.009321	0.005275	0.001481	0.014813
31-Oct-2029	0.131307	9.655120	15.110400	2.376520	33.895344	1.266930	0.014437	0.140485	0.034988	0.002674	0.001523	0.096918	0.000462	0.009357	0.005296	0.001487	0.014871
1-Nov-2029	0.130410	9.688300	15.162400	2.384670	34.011756	1.271290	0.014486	0.140968	0.035110	0.002683	0.001528	0.097249	0.000463	0.009390	0.005314	0.001492	0.014922
2-Nov-2029	0.129220	9.729160	15.226000	2.394810	34.155540	1.276590	0.014547	0.141559	0.035263	0.002694	0.001535	0.097665	0.000465	0.009430	0.005337	0.001499	0.014986
3-Nov-2029	0.129091	9.763610	15.279900	2.403310	34.276565	1.281100	0.014598	0.142059	0.035389	0.002704	0.001540	0.098011	0.000467	0.009463	0.005355	0.001504	0.015039
4-Nov-2029	0.129183	9.794960	15.329000	2.410990	34.386472	1.285230	0.014645	0.142516	0.035501	0.002712	0.001545	0.098325	0.000469	0.009493	0.005373	0.001509	0.015087
5-Nov-2029	0.128023	9.766160	15.282900	2.404170	34.286474	1.281320	0.014601	0.142085	0.035395	0.002705	0.001541	0.098096	0.000467	0.009466	0.005357	0.001504	0.015042
6-Nov-2029	0.126975	9.806440	15.346600	2.413880	34.427039	1.286740	0.014662	0.142680	0.035527	0.002717	0.001547	0.098489	0.000469	0.009504	0.005379	0.001510	0.015103
7-Nov-2029	0.126260	9.836980	15.395900	2.421230	34.533564	1.291020	0.014710	0.143143	0.035631	0.002725	0.001551	0.098781	0.000471	0.009533	0.005396	0.001515	0.015150
8-Nov-2029	0.125951	9.857760	15.427800	2.426270	34.606207	1.293630	0.014740	0.143437	0.035704	0.002731	0.001554	0.099022	0.000472	0.009553	0.005407	0.001518	0.015182
9-Nov-2029	0.125945	9.896120	15.487300	2.435850	34.741442	1.298590	0.014797	0.143989	0.035843	0.002742	0.001560	0.099432	0.000473	0.009591	0.005428	0.001524	0.015241
10-Nov-2029	0.125877	9.940190	15.555700	2.446870	34.896865	1.304280	0.014862	0.144623	0.036003	0.002755	0.001568	0.099860	0.000476	0.009634	0.005452	0.001531	0.015309
11-Nov-2029	0.125735	9.973100	15.607200	2.454990	35.012480	1.308590	0.014911	0.145101	0.036122	0.002764	0.001573	0.100194	0.000477	0.009666	0.005470	0.001536	0.015359
12-Nov-2029	0.125750	9.998180	15.646500	2.461150	35.100471	1.311900	0.014949	0.145467	0.036213	0.002771	0.001577	0.100444	0.000478	0.009690	0.005484	0.001540	0.015398
13-Nov-2029	0.126059	10.037700	15.708400	2.470810	35.238932	1.317110	0.015008	0.146044	0.036355	0.002782	0.001583	0.100833	0.000480	0.009728	0.005506	0.001546	0.015459
14-Nov-2029	0.126302	10.086300	15.785200	2.482580	35.408756	1.323600	0.015081	0.146759	0.036529	0.002795	0.001590	0.101311	0.000483	0.009775	0.005533	0.001553	0.015534
15-Nov-2029	0.126377	10.138700	15.866700	2.495650	35.593421	1.330380	0.015159	0.147515	0.036721	0.002810	0.001599	0.101843	0.000485	0.009826	0.005561	0.001561	0.015614
16-Nov-2029	0.126109	10.193700	15.952800	2.509150	35.786349	1.337610	0.015241	0.148316	0.036920	0.002825	0.001607	0.102390	0.000488	0.009879	0.005591	0.001570	0.015699
17-Nov-2029	0.126070	10.258700	16.054400	2.525180	36.014665	1.346130	0.015339	0.149261	0.037156	0.002843	0.001618	0.103048	0.000491	0.009942	0.005627	0.001580	0.015799
18-Nov-2029	0.125884	10.324900	16.157900	2.541480	36.247090	1.354800	0.015437	0.150223	0.037395	0.002861	0.001628	0.103718	0.000494	0.010006	0.005663	0.001590	0.015901
19-Nov-2029	0.125752	10.389700	16.259500	2.557410	36.474495	1.363330	0.015535	0.151168	0.037629	0.002879	0.001638	0.104364	0.000497	0.010069	0.005699	0.001600	0.016001
20-Nov-2029	0.125538	10.442900	16.342900	2.570440	36.660993	1.370330	0.015614	0.151943	0.037821	0.002894	0.001647	0.104891	0.000500	0.010120	0.005728	0.001608	0.016083
21-Nov-2029	0.125559	10.513100	16.452800	2.587740	36.907524	1.379540	0.015719	0.152965	0.038075	0.002913	0.001658	0.105599	0.000503	0.010189	0.005767	0.001619	0.016191
22-Nov-2029	0.125504	10.587900	16.569800	2.606170	37.170194	1.389360	0.015831	0.154053	0.038346	0.002934	0.001670	0.106353	0.000507	0.010261	0.005808	0.001631	0.016306
23-Nov-2029	0.125483	10.636200	16.645500	2.618030	37.339639	1.395720	0.015903	0.154757	0.038520	0.002948	0.001677	0.106836	0.000509	0.010308	0.005834	0.001638	0.016380
24-Nov-2029	0.125394	10.681100	16.715900	2.629050	37.497135	1.401620	0.015971	0.155412	0.038683	0.002960	0.001684	0.107283	0.000511	0.010351	0.005859	0.001645	0.016450
25-Nov-2029	0.125427	10.738900	16.806200	2.643280	37.700060	1.409200	0.016057	0.156252	0.038892	0.002976	0.001693	0.107865	0.000514	0.010407	0.005891	0.001654	0.016539
26-Nov-2029	0.125454	10.808500	16.915100	2.660430	37.944475	1.418330	0.016161	0.157264	0.039144	0.002995	0.001704	0.108567	0.000517	0.010475	0.005929	0.001665	0.016646
27-Nov-2029	0.125447	10.864300	17.002400	2.674140	38.140266	1.425650	0.016244	0.158076	0.039345	0.003011	0.001713	0.109126	0.000520	0.010529	0.005959	0.001673	0.016732
28-Nov-2029	0.125432	10.865000	17.003700	2.674270	38.142549	1.425780	0.016246	0.158089	0.039347	0.003011	0.001713	0.109126	0.000520	0.010529	0.005960	0.001673	0.016733
29-Nov-2029	0.125428	10.883800	17.033300	2.678880	38.208476	1.428260	0.016274	0.158363	0.039415	0.003016	0.001716	0.109312	0.000521	0.010548	0.005970	0.001676	0.016762
30-Nov-2029	0.125404	10.920900	17.091300	2.687980	38.338589	1.433130	0.016329	0.158903	0.039549	0.003026	0.001722	0.109681	0.000522	0.010583	0.005990	0.001682	0.016819
1-Dec-2029	0.125373	10.957900	17.149400	2.697070	38.468411	1.438000	0.016385	0.159443	0.039683	0.003037	0.001728	0.110051	0.000524	0.010619	0.006011	0.001688	0.016876
2-Dec-2029	0.125379	10.999500	17.214600	2.707300	38.614413	1.443480	0.016447	0.160050	0.039833	0.003048	0.001734	0.110466	0.000526	0.010660	0.006034	0.001694	0.016940
3-Dec-2029	0.125381	11.043200	17.282900	2.718040	38.767759	1.449210	0.016512	0.160685	0.039991	0.003060	0.001741	0.110903	0.000528	0.010702	0.006058	0.001701	0.017007
4-Dec-2029	0.125335	11.080300	17.341000	2.727160	38.897954	1.454090	0.016568	0.161226	0.040125	0.003071	0.001747	0.111275	0.000530	0.010738	0.006078	0.001706	0.017064
5-Dec-2029	0.125319	11.106800	17.382500	2.733670	38.990933	1.457570	0.016608	0.161611	0.040221	0.003078	0.001751	0.111540	0.000531	0.010763	0.006092	0.001711	0.017105
6-Dec-2029	0.125309	11.135800	17.427800	2.740800	39.092707	1.461370	0.016651	0.162033	0.040326	0.003086	0.001756	0.111832	0.000533	0.010791	0.006108	0.001715	0.017150
7-Dec-2029	0.125287	11.165700	17.474600	2.748160	39.197676	1.465290	0.016696	0.162468	0.040434	0.003094	0.001760	0.112133	0.000534	0.010820	0.006125	0.001720	0.017196
8-Dec-2029	0.125280	11.183500	17.502500	2.752570	39.260283	1.467630	0.016722	0.162727	0.040499	0.003099	0.001763	0.112314	0.000535	0.010838	0.006135	0.001722	0.017223
9-Dec-2029	0.125271	11.209900	17.543800	2.759080	39.353012	1.471090	0.016762	0.163111	0.040594	0.003107	0.001767	0.112582	0.000536	0.010863	0.006149	0.001726	0.017264
10-Dec-2029	0.125259	11.131500	17.421100	2.739750	39.077646	1.460800	0.016644	0.161970	0.040310	0.003085	0.001755	0.111792	0.000533	0.010787	0.006106	0.001714	0.017143
11-Dec-2029	0.125257	11.174500	17.488400	2.750330	39.228585	1.466440	0.016709	0.162595	0.040465	0.003097	0.001762	0.112224	0.000535	0.010829	0.006130	0.001721	0.017209
12-Dec-2029	0.125250	11.232500	17.579200	2.764610	39.432216	1.474060	0.016796	0.163440	0.040675	0.003113	0.001771	0.112806	0.000537	0.010885	0.006161	0.001730	0.017299
13-Dec-2029	0.125242	11.276100	17.647500	2.775320	39.585189	1.479790	0.016861	0.164075	0.040833	0.003125	0.001778	0.113242	0.000540	0.010927	0.006185	0.001737	0.017366
14-Dec-2029	0.125242	11.323500	17.721800	2.786990	39.751604	1.486020	0.016932	0.164766	0.041005	0.003138	0.001785	0.113717	0.000542	0.010973	0.006211	0.001744	0.017439
15-Dec-2029	0.125244	11.381900	17.813100	2.801350	39.956564	1.493680	0.017019	0.165614	0.041216	0.003154	0.001794	0.114303	0.000545	0.011030	0.006243	0.001753	0.017529
16-Dec-2029	0.125234	11.426200	17.882400	2.812280	40.112190	1.499490	0.017085	0.166259	0.041377	0.003166	0.001801	0.114749	0.000547	0.011073	0.006268	0.001760	0.017597
17-Dec-2029	0.125241	11.471600	17.953400	2.823460	40.271593	1.505440	0.017153	0.166919	0.041541	0.003179	0.001809	0.115207	0.000549	0.011117	0.006293	0.001767	0.017667

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Dec-2029	0.125241	11.518300	18.026500	2.834930	40.435437	1.511570	0.017223	0.167598	0.041710	0.003192	0.001816	0.115675	0.000551	0.011162	0.006318	0.001774	0.017739
19-Dec-2029	0.125234	11.564300	18.098600	2.846270	40.596997	1.517620	0.017292	0.168269	0.041877	0.003205	0.001823	0.116137	0.000553	0.011207	0.006343	0.001781	0.017810
20-Dec-2029	0.125230	11.542800	18.064900	2.840960	40.521445	1.514800	0.017260	0.167956	0.041799	0.003199	0.001820	0.115920	0.000552	0.011186	0.006332	0.001778	0.017777
21-Dec-2029	0.125227	11.589600	18.138100	2.852470	40.685703	1.520940	0.017330	0.168637	0.041968	0.003212	0.001827	0.116389	0.000555	0.011231	0.006357	0.001785	0.017849
22-Dec-2029	0.125221	11.640200	18.217400	2.864940	40.863402	1.527580	0.017405	0.169374	0.042151	0.003226	0.001835	0.116899	0.000557	0.011280	0.006385	0.001793	0.017927
23-Dec-2029	0.125218	11.691300	18.297300	2.877510	41.042762	1.534280	0.017482	0.170116	0.042336	0.003240	0.001843	0.117412	0.000559	0.011330	0.006413	0.001801	0.018005
24-Dec-2029	0.125210	11.735500	18.366500	2.888410	41.198016	1.540090	0.017548	0.170760	0.042496	0.003252	0.001850	0.117857	0.000561	0.011373	0.006437	0.001807	0.018073
25-Dec-2029	0.125205	11.781800	18.438900	2.899780	41.360449	1.546150	0.017617	0.171433	0.042664	0.003265	0.001857	0.118321	0.000564	0.011417	0.006463	0.001814	0.018145
26-Dec-2029	0.125202	11.831700	18.517100	2.912080	41.535700	1.552720	0.017692	0.172160	0.042845	0.003279	0.001865	0.118822	0.000566	0.011466	0.006490	0.001822	0.018222
27-Dec-2029	0.125190	11.876100	18.586600	2.922990	41.691495	1.558540	0.017758	0.172806	0.043005	0.003291	0.001872	0.119267	0.000568	0.011509	0.006514	0.001829	0.018290
28-Dec-2029	0.125187	11.898800	18.622100	2.928570	41.771155	1.561520	0.017792	0.173136	0.043087	0.003297	0.001876	0.119495	0.000569	0.011531	0.006527	0.001832	0.018325
29-Dec-2029	0.125184	11.974000	18.739700	2.947070	42.035112	1.571390	0.017904	0.174230	0.043359	0.003318	0.001888	0.120250	0.000573	0.011604	0.006568	0.001844	0.018441
30-Dec-2029	0.125176	12.029900	18.827300	2.960840	42.231399	1.578730	0.017988	0.175044	0.043562	0.003334	0.001896	0.120812	0.000576	0.011658	0.006599	0.001853	0.018527
31-Dec-2029	0.125171	12.096900	18.932100	2.977330	42.466604	1.587520	0.018088	0.176019	0.043804	0.003352	0.001907	0.121485	0.000579	0.011723	0.006636	0.001863	0.018630
1-Jan-2030	0.125173	12.165300	19.039200	2.994170	42.706746	1.596500	0.018190	0.177014	0.044052	0.003371	0.001918	0.122173	0.000582	0.011789	0.006673	0.001874	0.018735
2-Jan-2030	0.125167	12.264800	19.194900	3.018660	43.056047	1.609550	0.018339	0.178461	0.044412	0.003399	0.001934	0.123173	0.000587	0.011885	0.006728	0.001889	0.018888
3-Jan-2030	0.125161	12.277100	19.214000	3.021690	43.099238	1.611160	0.018357	0.178640	0.044456	0.003402	0.001935	0.123297	0.000587	0.011897	0.006734	0.001891	0.018907
4-Jan-2030	0.125165	12.319800	19.280900	3.032210	43.249181	1.616770	0.018421	0.179262	0.044611	0.003414	0.001942	0.123727	0.000589	0.011939	0.006758	0.001897	0.018973
5-Jan-2030	0.125160	12.363800	19.349800	3.043050	43.403689	1.622540	0.018487	0.179902	0.044770	0.003426	0.001949	0.124170	0.000592	0.011981	0.006782	0.001904	0.019041
6-Jan-2030	0.125159	12.401000	19.407900	3.052200	43.534257	1.627410	0.018543	0.180442	0.044905	0.003437	0.001955	0.124545	0.000593	0.012018	0.006802	0.001910	0.019098
7-Jan-2030	0.125161	12.441600	19.471400	3.062190	43.676774	1.632730	0.018603	0.181032	0.045052	0.003448	0.001961	0.124953	0.000595	0.012057	0.006825	0.001916	0.019161
8-Jan-2030	0.125159	12.486100	19.541000	3.073180	43.833147	1.638560	0.018670	0.181679	0.045213	0.003460	0.001968	0.125404	0.000597	0.012100	0.006849	0.001923	0.019229
9-Jan-2030	0.125159	12.523100	19.598900	3.082310	43.963133	1.643410	0.018725	0.182217	0.045348	0.003471	0.001974	0.125779	0.000599	0.012136	0.006869	0.001929	0.019286
10-Jan-2030	0.125161	12.561100	19.658300	3.091660	44.096523	1.648390	0.018782	0.182769	0.045485	0.003481	0.001980	0.126161	0.000601	0.012173	0.006890	0.001934	0.019345
11-Jan-2030	0.125154	12.609500	19.734000	3.103610	44.266587	1.654740	0.018854	0.183473	0.045661	0.003495	0.001988	0.126652	0.000603	0.012220	0.006917	0.001942	0.019419
12-Jan-2030	0.125154	12.464700	19.507200	3.067990	43.758339	1.635700	0.018637	0.181364	0.045136	0.003455	0.001965	0.125203	0.000596	0.012080	0.006837	0.001920	0.019196
13-Jan-2030	0.125161	12.531000	19.610700	3.084390	43.991425	1.644370	0.018736	0.182326	0.045377	0.003473	0.001976	0.125880	0.000600	0.012144	0.006874	0.001930	0.019298
14-Jan-2030	0.125158	12.562200	19.659800	3.092040	44.100834	1.648490	0.018783	0.182782	0.045490	0.003482	0.001981	0.126189	0.000601	0.012174	0.006891	0.001935	0.019346
15-Jan-2030	0.125163	12.622400	19.753800	3.106880	44.312265	1.656370	0.018873	0.183656	0.045708	0.003498	0.001990	0.126798	0.000604	0.012233	0.006924	0.001944	0.019439
16-Jan-2030	0.125170	12.665600	19.821400	3.117570	44.464156	1.662020	0.018938	0.184284	0.045865	0.003510	0.001997	0.127238	0.000606	0.012275	0.006947	0.001951	0.019505
17-Jan-2030	0.125164	12.712500	19.894900	3.129010	44.628376	1.668210	0.019008	0.184969	0.046034	0.003523	0.002004	0.127696	0.000608	0.012320	0.006973	0.001958	0.019578
18-Jan-2030	0.125164	12.800500	20.032700	3.150670	44.937308	1.679760	0.019140	0.186249	0.046352	0.003548	0.002018	0.128580	0.000612	0.012405	0.007021	0.001971	0.019713
19-Jan-2030	0.125173	12.902100	20.191700	3.175680	45.293994	1.693100	0.019291	0.187728	0.046720	0.003576	0.002034	0.129601	0.000617	0.012503	0.007077	0.001987	0.019870
20-Jan-2030	0.125170	13.005800	20.353900	3.201200	45.658024	1.706700	0.019446	0.189236	0.047096	0.003605	0.002051	0.130642	0.000622	0.012604	0.007134	0.002003	0.020029
21-Jan-2030	0.125167	13.109100	20.515700	3.226630	46.020685	1.720260	0.019601	0.190740	0.047470	0.003633	0.002067	0.131680	0.000627	0.012704	0.007191	0.002019	0.020188
22-Jan-2030	0.125181	13.266100	20.761400	3.265230	46.571669	1.740880	0.019836	0.193025	0.048038	0.003677	0.002092	0.133253	0.000635	0.012856	0.007277	0.002043	0.020430
23-Jan-2030	0.125181	13.445500	21.042200	3.309420	47.201605	1.764420	0.020104	0.195636	0.048688	0.003726	0.002120	0.135056	0.000643	0.013030	0.007375	0.002071	0.020707
24-Jan-2030	0.125179	13.577700	21.249000	3.341960	47.665708	1.781760	0.020302	0.197558	0.049166	0.003763	0.002141	0.136386	0.000650	0.013158	0.007448	0.002091	0.020910
25-Jan-2030	0.125180	13.668100	21.390400	3.364220	47.983104	1.793610	0.020437	0.198873	0.049494	0.003788	0.002155	0.137296	0.000654	0.013246	0.007497	0.002105	0.021049
26-Jan-2030	0.125173	13.759300	21.533200	3.386690	48.303362	1.805580	0.020573	0.200200	0.049824	0.003813	0.002169	0.138214	0.000658	0.013334	0.007547	0.002119	0.021190
27-Jan-2030	0.125171	13.835200	21.652000	3.405380	48.569849	1.815540	0.020687	0.201304	0.050099	0.003835	0.002181	0.138978	0.000662	0.013408	0.007589	0.002131	0.021307
28-Jan-2030	0.125168	13.937600	21.812200	3.430580	48.929316	1.828970	0.020840	0.202793	0.050470	0.003863	0.002197	0.140007	0.000667	0.013507	0.007645	0.002146	0.021464
29-Jan-2030	0.125163	14.042400	21.976100	3.456370	49.297204	1.842720	0.020996	0.204318	0.050849	0.003892	0.002214	0.141060	0.000672	0.013609	0.007703	0.002163	0.021626
30-Jan-2030	0.125158	14.117900	22.094300	3.474970	49.562323	1.852630	0.021109	0.205417	0.051123	0.003913	0.002226	0.141820	0.000675	0.013682	0.007744	0.002174	0.021742
31-Jan-2030	0.125156	14.172800	22.180300	3.488500	49.755125	1.859830	0.021191	0.206216	0.051322	0.003928	0.002235	0.142373	0.000678	0.013735	0.007774	0.002183	0.021827
1-Feb-2030	0.125152	14.219200	22.252700	3.499900	49.917931	1.865910	0.021261	0.206889	0.051489	0.003941	0.002242	0.142839	0.000680	0.013780	0.007800	0.002190	0.021898
2-Feb-2030	0.125150	14.257400	22.312500	3.509330	50.052149	1.870920	0.021318	0.207445	0.051628	0.003952	0.002248	0.143225	0.000682	0.013817	0.007821	0.002196	0.021957
3-Feb-2030	0.125147	14.289100	22.362100	3.517130	50.163424	1.875080	0.021365	0.207906	0.051742	0.003960	0.002253	0.143544	0.000684	0.013848	0.007838	0.002201	0.022005
4-Feb-2030	0.125145	14.322300	22.414100	3.525310	50.280010	1.879440	0.021415	0.208390	0.051863	0.003970	0.002258	0.143879	0.000685	0.013880	0.007856	0.002206	0.022057
5-Feb-2030	0.125143	14.354800	22.464900	3.533310	50.394106	1.883700	0.021463	0.208862	0.051980	0.003979	0.002263	0.144205	0.000687	0.013911	0.007874	0.002211	0.022107
6-Feb-2030	0.125141	14.154600	22.151600	3.484030	49.691272	1.857420	0.021164	0.205949	0.051255	0.003923	0.002232	0.142195	0.000677	0.013717	0.007764	0.002180	0.021798
7-Feb-2030	0.125140	14.184000	22.197500	3.491260	49.794457	1.861280	0.021208	0.206376	0.051362	0.003931	0.002236	0.142490	0.000679	0.013746	0.007780	0.002184	0.021844

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Feb-2030	0.125138	14.224100	22.260400	3.501150	49.935313	1.866550	0.021268	0.206960	0.051507	0.003942	0.002243	0.142894	0.000681	0.013785	0.007802	0.002191	0.021905
9-Feb-2030	0.125137	14.272700	22.336400	3.513100	50.105878	1.872920	0.021340	0.207667	0.051683	0.003956	0.002250	0.143382	0.000683	0.013832	0.007829	0.002198	0.021980
10-Feb-2030	0.125136	14.316300	22.404600	3.523830	50.258933	1.878640	0.021406	0.208301	0.051841	0.003968	0.002257	0.143820	0.000685	0.013874	0.007853	0.002205	0.022047
11-Feb-2030	0.125134	14.371500	22.491100	3.537440	50.452813	1.885890	0.021488	0.209105	0.052041	0.003983	0.002266	0.144375	0.000688	0.013928	0.007883	0.002213	0.022132
12-Feb-2030	0.125133	14.306400	22.389100	3.521400	50.224206	1.877340	0.021391	0.208157	0.051805	0.003965	0.002256	0.143721	0.000684	0.013865	0.007847	0.002203	0.022032
13-Feb-2030	0.125132	14.370300	22.489200	3.537140	50.448582	1.885740	0.021487	0.209088	0.052036	0.003983	0.002266	0.144363	0.000688	0.013927	0.007883	0.002213	0.022131
14-Feb-2030	0.125131	14.432500	22.586500	3.552430	50.666859	1.893890	0.021579	0.209992	0.052261	0.004000	0.002276	0.144987	0.000690	0.013987	0.007917	0.002223	0.022226
15-Feb-2030	0.125130	14.496400	22.686500	3.568170	50.891235	1.902280	0.021675	0.210922	0.052493	0.004018	0.002286	0.145629	0.000694	0.014049	0.007952	0.002232	0.022325
16-Feb-2030	0.125128	14.560700	22.787200	3.584000	51.116980	1.910720	0.021771	0.211858	0.052725	0.004036	0.002296	0.146276	0.000697	0.014111	0.007987	0.002242	0.022424
17-Feb-2030	0.125127	14.624900	22.887600	3.599790	51.342311	1.919140	0.021867	0.212792	0.052958	0.004054	0.002306	0.146920	0.000700	0.014173	0.008022	0.002252	0.022523
18-Feb-2030	0.125126	14.688700	22.987500	3.615490	51.566272	1.927520	0.021963	0.213720	0.053189	0.004071	0.002316	0.147561	0.000703	0.014235	0.008057	0.002262	0.022621
19-Feb-2030	0.125125	14.752100	23.086700	3.631100	51.788864	1.935840	0.022057	0.214643	0.053418	0.004089	0.002326	0.148198	0.000706	0.014296	0.008092	0.002272	0.022719
20-Feb-2030	0.125124	14.815200	23.185500	3.646640	52.010418	1.944120	0.022152	0.215562	0.053647	0.004106	0.002336	0.148832	0.000709	0.014358	0.008127	0.002282	0.022816
21-Feb-2030	0.125123	14.879200	23.285600	3.662380	52.235043	1.952520	0.022247	0.216492	0.053878	0.004124	0.002346	0.149474	0.000712	0.014420	0.008162	0.002291	0.022914
22-Feb-2030	0.125122	14.943600	23.386500	3.678240	52.461162	1.960980	0.022344	0.217430	0.054112	0.004142	0.002356	0.150121	0.000715	0.014482	0.008197	0.002301	0.023013
23-Feb-2030	0.125121	15.039900	23.537200	3.701890	52.799013	1.973630	0.022488	0.218832	0.054459	0.004169	0.002371	0.151084	0.000720	0.014575	0.008250	0.002316	0.023162
24-Feb-2030	0.125121	15.140000	23.693900	3.726520	53.150389	1.986770	0.022638	0.220289	0.054821	0.004196	0.002387	0.152089	0.000724	0.014672	0.008305	0.002332	0.023316
25-Feb-2030	0.125121	15.154500	23.716400	3.730120	53.201421	1.988640	0.022659	0.220498	0.054875	0.004200	0.002389	0.152239	0.000725	0.014686	0.008313	0.002334	0.023338
26-Feb-2030	0.125120	15.189900	23.771900	3.738850	53.325765	1.993300	0.022712	0.221014	0.055003	0.004210	0.002395	0.152595	0.000727	0.014721	0.008332	0.002339	0.023393
27-Feb-2030	0.125119	15.253000	23.870600	3.754370	53.547237	2.001570	0.022806	0.221931	0.055232	0.004228	0.002405	0.153228	0.000730	0.014782	0.008367	0.002349	0.023490
28-Feb-2030	0.125118	15.295500	23.937200	3.764840	53.696475	2.007160	0.022870	0.222550	0.055386	0.004239	0.002412	0.153656	0.000732	0.014823	0.008390	0.002356	0.023555
1-Mar-2030	0.125117	15.351000	24.024000	3.778490	53.891269	2.014440	0.022953	0.223357	0.055586	0.004255	0.002420	0.154212	0.000734	0.014877	0.008420	0.002364	0.023641
2-Mar-2030	0.125117	15.423300	24.137200	3.796290	54.145102	2.023930	0.023061	0.224410	0.055848	0.004275	0.002432	0.154939	0.000738	0.014947	0.008460	0.002375	0.023752
3-Mar-2030	0.125116	15.508400	24.270400	3.817240	54.443869	2.035100	0.023188	0.225648	0.056156	0.004298	0.002445	0.155794	0.000742	0.015029	0.008507	0.002388	0.023883
4-Mar-2030	0.125116	15.600500	24.414400	3.839890	54.767116	2.047170	0.023326	0.226987	0.056490	0.004324	0.002460	0.156718	0.000746	0.015119	0.008557	0.002402	0.024025
5-Mar-2030	0.125116	15.695300	24.562800	3.863230	55.099945	2.059620	0.023468	0.228367	0.056833	0.004350	0.002475	0.157670	0.000751	0.015210	0.008609	0.002417	0.024171
6-Mar-2030	0.125116	15.788700	24.709000	3.886220	55.427838	2.071880	0.023607	0.229726	0.057171	0.004376	0.002489	0.158609	0.000755	0.015301	0.008661	0.002431	0.024315
7-Mar-2030	0.125115	15.878700	24.849800	3.908370	55.743782	2.083690	0.023742	0.231035	0.057497	0.004401	0.002503	0.159513	0.000760	0.015388	0.008710	0.002445	0.024453
8-Mar-2030	0.125116	15.969500	24.992100	3.930730	56.062588	2.095610	0.023878	0.232358	0.057826	0.004426	0.002518	0.160425	0.000764	0.015476	0.008760	0.002459	0.024593
9-Mar-2030	0.125116	16.062400	25.137500	3.953580	56.388655	2.107810	0.024017	0.233710	0.058162	0.004452	0.002532	0.161356	0.000768	0.015566	0.008811	0.002474	0.024736
10-Mar-2030	0.125116	16.167800	25.302400	3.979510	56.758619	2.121640	0.024174	0.235243	0.058543	0.004481	0.002549	0.162415	0.000774	0.015668	0.008868	0.002490	0.024899
11-Mar-2030	0.125116	16.264000	25.453000	4.003200	57.096386	2.134270	0.024318	0.236644	0.058892	0.004508	0.002564	0.163382	0.000778	0.015762	0.008921	0.002505	0.025047
12-Mar-2030	0.125115	16.365700	25.612100	4.028220	57.453363	2.147610	0.024470	0.238123	0.059260	0.004536	0.002580	0.164403	0.000783	0.015860	0.008977	0.002520	0.025203
13-Mar-2030	0.125115	16.473300	25.780400	4.054690	57.831044	2.161720	0.024631	0.239688	0.059649	0.004566	0.002597	0.165483	0.000788	0.015964	0.009036	0.002537	0.025369
14-Mar-2030	0.125115	16.583000	25.952200	4.081720	58.216274	2.176130	0.024795	0.241285	0.060047	0.004596	0.002615	0.166586	0.000793	0.016071	0.009096	0.002554	0.025538
15-Mar-2030	0.125115	16.657600	26.068800	4.100090	58.478198	2.185900	0.024907	0.242369	0.060317	0.004617	0.002626	0.167337	0.000797	0.016143	0.009137	0.002565	0.025653
16-Mar-2030	0.125115	16.775000	26.252500	4.128980	58.890315	2.201310	0.025082	0.244077	0.060742	0.004650	0.002645	0.168516	0.000803	0.016257	0.009202	0.002583	0.025834
17-Mar-2030	0.125115	16.897900	26.444900	4.159240	59.321807	2.217440	0.025266	0.245866	0.061188	0.004684	0.002664	0.169751	0.000808	0.016376	0.009269	0.002602	0.026023
18-Mar-2030	0.125115	17.026000	26.645500	4.190770	59.771513	2.234250	0.025457	0.247730	0.061651	0.004719	0.002684	0.171038	0.000815	0.016500	0.009339	0.002622	0.026220
19-Mar-2030	0.125115	17.161500	26.857500	4.224120	60.247192	2.252030	0.025660	0.249701	0.062142	0.004757	0.002706	0.172399	0.000821	0.016631	0.009414	0.002643	0.026429
20-Mar-2030	0.125115	17.313800	27.095900	4.261590	60.781786	2.272030	0.025888	0.251918	0.062693	0.004799	0.002730	0.173927	0.000828	0.016779	0.009497	0.002666	0.026664
21-Mar-2030	0.125115	17.471200	27.342100	4.300320	61.334304	2.292680	0.026123	0.254207	0.063263	0.004842	0.002755	0.175508	0.000836	0.016931	0.009583	0.002691	0.026906
22-Mar-2030	0.125115	17.639600	27.605700	4.341760	61.925449	2.314770	0.026375	0.256657	0.063872	0.004889	0.002781	0.177199	0.000844	0.017095	0.009676	0.002717	0.027165
23-Mar-2030	0.125115	17.817600	27.884400	4.385600	62.550448	2.338140	0.026641	0.259249	0.064517	0.004939	0.002809	0.178988	0.000852	0.017267	0.009773	0.002744	0.027439
24-Mar-2030	0.125115	17.997400	28.165800	4.429850	63.181630	2.361740	0.026910	0.261865	0.065168	0.004988	0.002838	0.180794	0.000861	0.017441	0.009872	0.002772	0.027716
25-Mar-2030	0.125115	18.180500	28.452200	4.474910	63.824388	2.385760	0.027184	0.264528	0.065831	0.005039	0.002866	0.182633	0.000870	0.017619	0.009973	0.002800	0.027998
26-Mar-2030	0.125115	18.368000	28.745700	4.521070	64.482662	2.410370	0.027464	0.267257	0.066510	0.005091	0.002896	0.184517	0.000879	0.017801	0.010075	0.002829	0.028287
27-Mar-2030	0.125115	18.557100	29.041700	4.567610	65.146497	2.435180	0.027747	0.270008	0.067195	0.005143	0.002926	0.186417	0.000888	0.017984	0.010179	0.002858	0.028578
28-Mar-2030	0.125115	18.744900	29.335500	4.613820	65.805726	2.459820	0.028028	0.272740	0.067875	0.005196	0.002955	0.188303	0.000897	0.018166	0.010282	0.002887	0.028867
29-Mar-2030	0.125115	18.936300	29.635100	4.660950	66.477733	2.484950	0.028314	0.275526	0.068568	0.005249	0.002986	0.190226	0.000906	0.018351	0.010387	0.002916	0.029162
30-Mar-2030	0.125115	19.149800	29.969100	4.713510	67.227285	2.512940	0.028633	0.278630	0.069342	0.005308	0.003019	0.192372	0.000916	0.018558	0.010504	0.002949	0.029491
31-Mar-2030	0.125115	19.374400	30.320500	4.768790	68.015754	2.542410	0.028969	0.281898	0.070155	0.005370	0.003055	0.194628	0.000927	0.018776	0.010627	0.002984	0.029837

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Apr-2030	0.125115	19.605000	30.681400	4.825550	68.825300	2.572670	0.029314	0.285254	0.070990	0.005434	0.003091	0.196945	0.000938	0.018999	0.010754	0.003019	0.030192
2-Apr-2030	0.125115	19.791600	30.973600	4.871490	69.480421	2.597170	0.029593	0.287969	0.071666	0.005486	0.003120	0.198820	0.000947	0.019180	0.010856	0.003048	0.030479
3-Apr-2030	0.125115	19.913300	31.164000	4.901450	69.907681	2.613140	0.029775	0.289740	0.072106	0.005519	0.003140	0.200043	0.000953	0.019298	0.010923	0.003067	0.030667
4-Apr-2030	0.125115	20.001600	31.302100	4.923170	70.217609	2.624720	0.029906	0.291024	0.072426	0.005544	0.003154	0.200929	0.000957	0.019384	0.010971	0.003080	0.030803
5-Apr-2030	0.125115	20.069200	31.407900	4.939810	70.454930	2.633590	0.030008	0.292008	0.072671	0.005563	0.003164	0.201608	0.000960	0.019449	0.011009	0.003091	0.030907
6-Apr-2030	0.125115	20.122500	31.491300	4.952920	70.642007	2.640580	0.030087	0.292783	0.072864	0.005577	0.003173	0.202144	0.000963	0.019501	0.011038	0.003099	0.030989
7-Apr-2030	0.125115	20.165400	31.558600	4.963500	70.792697	2.646220	0.030152	0.293408	0.073019	0.005589	0.003179	0.202575	0.000965	0.019542	0.011061	0.003106	0.031055
8-Apr-2030	0.125115	20.200800	31.613900	4.972200	70.916917	2.650860	0.030204	0.293922	0.073147	0.005599	0.003185	0.202930	0.000966	0.019577	0.011081	0.003111	0.031110
9-Apr-2030	0.125115	20.230300	31.660100	4.979480	71.020558	2.654740	0.030249	0.294353	0.073254	0.005607	0.003190	0.203227	0.000968	0.019605	0.011097	0.003116	0.031155
10-Apr-2030	0.125115	20.255400	31.699400	4.985660	71.108682	2.658030	0.030286	0.294718	0.073345	0.005614	0.003194	0.203479	0.000969	0.019630	0.011111	0.003119	0.031194
11-Apr-2030	0.125115	20.277000	31.733100	4.990960	71.184442	2.660860	0.030318	0.295031	0.073423	0.005620	0.003197	0.203696	0.000970	0.019651	0.011123	0.003123	0.031227
12-Apr-2030	0.125115	20.295600	31.762300	4.995540	71.249747	2.663300	0.030346	0.295302	0.073491	0.005625	0.003200	0.203883	0.000971	0.019669	0.011133	0.003126	0.031256
13-Apr-2030	0.125115	20.311900	31.787700	4.999540	71.306920	2.665440	0.030370	0.295539	0.073549	0.005630	0.003202	0.204046	0.000972	0.019684	0.011142	0.003128	0.031281
14-Apr-2030	0.125115	20.324500	31.807600	5.002660	71.351230	2.667100	0.030389	0.295723	0.073595	0.005633	0.003204	0.204174	0.000972	0.019697	0.011149	0.003130	0.031300
15-Apr-2030	0.125115	20.336200	31.825800	5.005530	71.392264	2.668630	0.030407	0.295893	0.073638	0.005637	0.003206	0.204291	0.000973	0.019708	0.011155	0.003132	0.031318
16-Apr-2030	0.125115	20.346800	31.842300	5.008130	71.429439	2.670020	0.030423	0.296047	0.073676	0.005640	0.003208	0.204397	0.000973	0.019718	0.011161	0.003133	0.031334
17-Apr-2030	0.125115	20.356400	31.857400	5.010500	71.463170	2.671280	0.030437	0.296186	0.073711	0.005642	0.003209	0.204493	0.000974	0.019727	0.011166	0.003135	0.031349
18-Apr-2030	0.125115	20.365100	31.871100	5.012650	71.493747	2.672430	0.030450	0.296314	0.073742	0.005645	0.003211	0.204581	0.000974	0.019736	0.011171	0.003136	0.031363
19-Apr-2030	0.125115	20.373300	31.883800	5.014650	71.522459	2.673490	0.030462	0.296432	0.073772	0.005647	0.003212	0.204663	0.000975	0.019744	0.011175	0.003138	0.031375
20-Apr-2030	0.125115	20.380800	31.895700	5.016520	71.548887	2.674490	0.030474	0.296542	0.073799	0.005649	0.003213	0.204739	0.000975	0.019751	0.011179	0.003139	0.031387
21-Apr-2030	0.125115	20.387900	31.906700	5.018250	71.573740	2.675410	0.030484	0.296645	0.073825	0.005651	0.003214	0.204810	0.000975	0.019758	0.011183	0.003140	0.031398
22-Apr-2030	0.125115	20.394400	31.916900	5.019860	71.596600	2.676270	0.030494	0.296740	0.073848	0.005653	0.003215	0.204876	0.000976	0.019764	0.011187	0.003141	0.031408
23-Apr-2030	0.125115	20.400600	31.926700	5.021390	71.618382	2.677090	0.030503	0.296831	0.073871	0.005654	0.003216	0.204938	0.000976	0.019770	0.011190	0.003142	0.031417
24-Apr-2030	0.125115	20.406600	31.935900	5.022850	71.639377	2.677860	0.030512	0.296917	0.073892	0.005656	0.003217	0.204998	0.000976	0.019776	0.011194	0.003143	0.031426
25-Apr-2030	0.125115	20.412200	31.944700	5.024240	71.659084	2.678600	0.030520	0.296999	0.073913	0.005658	0.003218	0.205054	0.000977	0.019782	0.011197	0.003144	0.031435
26-Apr-2030	0.125115	20.417500	31.953000	5.025540	71.677671	2.679300	0.030528	0.297076	0.073932	0.005659	0.003219	0.205107	0.000977	0.019787	0.011200	0.003144	0.031443
27-Apr-2030	0.125115	20.422600	31.961000	5.026790	71.695553	2.679960	0.030536	0.297150	0.073950	0.005661	0.003220	0.205158	0.000977	0.019792	0.011202	0.003145	0.031451
28-Apr-2030	0.125115	20.427400	31.968500	5.027980	71.712439	2.680600	0.030543	0.297220	0.073968	0.005662	0.003221	0.205207	0.000977	0.019796	0.011205	0.003146	0.031459
29-Apr-2030	0.125115	20.432000	31.975700	5.029110	71.728579	2.681200	0.030550	0.297286	0.073984	0.005663	0.003221	0.205253	0.000978	0.019801	0.011208	0.003147	0.031466
30-Apr-2030	0.125134	20.436100	31.982100	5.030120	71.742976	2.681740	0.030556	0.297347	0.073999	0.005664	0.003222	0.205294	0.000978	0.019805	0.011210	0.003147	0.031472
1-May-2030	0.125335	20.434900	31.980300	5.029830	71.738785	2.681590	0.030554	0.297330	0.073995	0.005664	0.003222	0.205283	0.000978	0.019804	0.011209	0.003147	0.031470
2-May-2030	0.126461	20.406600	31.936000	5.022860	71.639418	2.677870	0.030512	0.296917	0.073892	0.005656	0.003217	0.204998	0.000976	0.019776	0.011194	0.003143	0.031426
3-May-2030	0.130957	20.230500	31.660400	4.979510	71.021181	2.654760	0.030249	0.294355	0.073255	0.005607	0.003190	0.203229	0.000968	0.019605	0.011097	0.003116	0.031155
4-May-2030	0.136853	19.895400	31.135900	4.897030	69.844783	2.610780	0.029748	0.289479	0.072041	0.005514	0.003137	0.199862	0.000952	0.019281	0.010913	0.003064	0.030639
5-May-2030	0.141046	19.486400	30.495900	4.796370	68.408992	2.557120	0.029136	0.283529	0.070561	0.005401	0.003072	0.195754	0.000932	0.018884	0.010689	0.003001	0.030009
6-May-2030	0.146177	19.036400	29.791700	4.685610	66.829233	2.498070	0.028463	0.276982	0.068931	0.005276	0.003001	0.191234	0.000911	0.018448	0.010442	0.002932	0.029316
7-May-2030	0.151066	18.629600	29.155000	4.585460	65.401035	2.444680	0.027855	0.271062	0.067458	0.005164	0.002937	0.187146	0.000891	0.018054	0.010219	0.002869	0.028690
8-May-2030	0.155027	18.276600	28.602600	4.498580	64.161823	2.398360	0.027327	0.265926	0.066180	0.005066	0.002882	0.183600	0.000874	0.017712	0.010025	0.002815	0.028146
9-May-2030	0.158501	17.968200	28.120000	4.422690	63.079233	2.357900	0.026866	0.261439	0.065063	0.004980	0.002833	0.180503	0.000860	0.017413	0.009856	0.002767	0.027671
10-May-2030	0.161978	17.659400	27.636700	4.346670	61.995109	2.317370	0.026405	0.256946	0.063945	0.004895	0.002784	0.177400	0.000845	0.017114	0.009687	0.002720	0.027196
11-May-2030	0.169469	17.518600	27.416300	4.312010	61.500801	2.298890	0.026194	0.254897	0.063435	0.004856	0.002762	0.175986	0.000838	0.016977	0.009609	0.002698	0.026979
12-May-2030	0.172657	17.276400	27.037300	4.252390	60.650513	2.267110	0.025832	0.251373	0.062558	0.004788	0.002724	0.173552	0.000827	0.016743	0.009477	0.002661	0.026606
13-May-2030	0.182342	17.020900	26.637400	4.189500	59.753548	2.233580	0.025450	0.247655	0.061633	0.004718	0.002684	0.170986	0.000814	0.016495	0.009336	0.002621	0.026212
14-May-2030	0.185712	16.791800	26.279000	4.133120	58.949313	2.203520	0.025107	0.244323	0.060803	0.004654	0.002647	0.168685	0.000803	0.016273	0.009211	0.002586	0.025860
15-May-2030	0.192422	16.290100	25.493700	4.009620	57.187995	2.137680	0.024357	0.237022	0.058986	0.004515	0.002568	0.163644	0.000779	0.015787	0.008936	0.002509	0.025087
16-May-2030	0.200712	15.519800	24.288300	3.820010	54.483742	2.036610	0.023205	0.225815	0.056197	0.004302	0.002447	0.155904	0.000743	0.015040	0.008513	0.002390	0.023901
17-May-2030	0.214154	15.425400	24.140600	3.796780	54.152364	2.024220	0.023064	0.224441	0.055855	0.004275	0.002432	0.154956	0.000738	0.014949	0.008461	0.002376	0.023755
18-May-2030	0.215607	15.318300	23.973000	3.770420	53.776385	2.010170	0.022904	0.222883	0.055468	0.004246	0.002415	0.153881	0.000733	0.014845	0.008403	0.002359	0.023590
19-May-2030	0.218951	15.189900	23.772000	3.738830	53.325682	1.993310	0.022712	0.221014	0.055003	0.004210	0.002395	0.152591	0.000727	0.014721	0.008332	0.002339	0.023393
20-May-2030	0.223331	14.987500	23.455200	3.689010	52.615131	1.966750	0.022409	0.218069	0.054270	0.004154	0.002363	0.150558	0.000717	0.014525	0.008221	0.002308	0.023081
21-May-2030	0.218271	14.713100	23.025800	3.621460	51.651783	1.930740	0.021999	0.214076	0.053276	0.004078	0.002320	0.147801	0.000704	0.014259	0.008071	0.002266	0.022658
22-May-2030	0.221713	14.359200	22.472000	3.534370	50.409458	1.884300	0.021470	0.208927	0.051995	0.003980	0.002264	0.144247	0.000687	0.013916	0.007876	0.002211	0.022113

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-May-2030	0.224005	14.103400	22.071600	3.471410	49.511456	1.850720	0.021087	0.205204	0.051069	0.003909	0.002224	0.141678	0.000675	0.013668	0.007736	0.002172	0.021719
24-May-2030	0.227614	13.770900	21.551200	3.389580	48.344228	1.807080	0.020590	0.200366	0.049866	0.003817	0.002171	0.138338	0.000659	0.013346	0.007554	0.002121	0.021207
25-May-2030	0.231486	13.945300	21.824000	3.432560	48.956696	1.829930	0.020851	0.202900	0.050499	0.003865	0.002199	0.140094	0.000667	0.013515	0.007649	0.002148	0.021476
26-May-2030	0.234455	13.092500	20.489400	3.222630	45.962763	1.718040	0.019576	0.190493	0.047410	0.003629	0.002064	0.131525	0.000626	0.012688	0.007182	0.002016	0.020163
27-May-2030	0.238403	12.768500	19.982200	3.142900	44.825407	1.675500	0.019091	0.185777	0.046238	0.003539	0.002013	0.128272	0.000611	0.012374	0.007004	0.001966	0.019663
28-May-2030	0.242820	12.583800	19.693200	3.097420	44.176924	1.651260	0.018815	0.183090	0.045569	0.003488	0.001984	0.126416	0.000602	0.012195	0.006903	0.001938	0.019379
29-May-2030	0.249270	12.451500	19.486100	3.064870	43.712530	1.633890	0.018617	0.181164	0.045090	0.003451	0.001963	0.125088	0.000596	0.012067	0.006830	0.001918	0.019175
30-May-2030	0.258171	12.398900	19.403600	3.051980	43.528107	1.626950	0.018538	0.180394	0.044902	0.003436	0.001955	0.124564	0.000593	0.012016	0.006801	0.001909	0.019094
31-May-2030	0.266032	12.267100	19.197200	3.019630	43.065785	1.609620	0.018341	0.178475	0.044426	0.003400	0.001934	0.123250	0.000587	0.011889	0.006729	0.001889	0.018891
1-Jun-2030	0.275983	12.160300	19.029700	2.993390	42.691049	1.595560	0.018181	0.176916	0.044040	0.003370	0.001918	0.122185	0.000582	0.011786	0.006670	0.001873	0.018726
2-Jun-2030	0.295125	12.065400	18.880800	2.970160	42.358423	1.583020	0.018038	0.175527	0.043703	0.003344	0.001903	0.121242	0.000577	0.011694	0.006618	0.001858	0.018580
3-Jun-2030	0.306860	11.927100	18.663700	2.936310	41.873693	1.564740	0.017830	0.173502	0.043214	0.003306	0.001881	0.119867	0.000571	0.011561	0.006542	0.001837	0.018368
4-Jun-2030	0.327243	11.789200	18.446500	2.902740	41.391116	1.546360	0.017622	0.171471	0.042736	0.003267	0.001860	0.118514	0.000564	0.011429	0.006466	0.001816	0.018155
5-Jun-2030	0.379457	11.600500	18.146700	2.857520	40.733716	1.520740	0.017333	0.168648	0.042119	0.003214	0.001833	0.116723	0.000555	0.011252	0.006362	0.001787	0.017866
6-Jun-2030	0.384383	11.443900	17.894600	2.820930	40.192008	1.498850	0.017089	0.166253	0.041653	0.003169	0.001812	0.115306	0.000547	0.011109	0.006275	0.001763	0.017628
7-Jun-2030	0.389393	11.287500	17.637900	2.785680	39.656318	1.475950	0.016837	0.163770	0.041267	0.003123	0.001794	0.114013	0.000539	0.010972	0.006188	0.001739	0.017391
8-Jun-2030	0.411729	11.135600	17.391600	2.750790	39.133346	1.454360	0.016597	0.161430	0.040831	0.003078	0.001774	0.112672	0.000531	0.010836	0.006103	0.001716	0.017161
9-Jun-2030	0.458894	10.976400	17.132400	2.714390	38.585929	1.431510	0.016344	0.158951	0.040398	0.003032	0.001755	0.111305	0.000523	0.010695	0.006014	0.001692	0.016919
10-Jun-2030	0.516797	10.821200	16.878500	2.679250	38.053688	1.408980	0.016096	0.156513	0.039994	0.002986	0.001736	0.110004	0.000515	0.010558	0.005928	0.001668	0.016684
11-Jun-2030	0.588278	10.611900	16.533000	2.632800	37.339785	1.377890	0.015754	0.153158	0.039482	0.002923	0.001713	0.108292	0.000504	0.010378	0.005810	0.001637	0.016366
12-Jun-2030	0.664149	10.436400	16.240200	2.594670	36.744542	1.351170	0.015463	0.150284	0.039117	0.002870	0.001695	0.106942	0.000495	0.010232	0.005711	0.001610	0.016101
13-Jun-2030	0.745236	10.278300	15.974400	2.560730	36.210001	1.326760	0.015199	0.147654	0.038925	0.002822	0.001679	0.105784	0.000486	0.010102	0.005622	0.001586	0.015864
14-Jun-2030	0.783608	10.127600	15.722000	2.528150	35.699539	1.303660	0.014949	0.145174	0.038682	0.002777	0.001667	0.104663	0.000478	0.009977	0.005537	0.001564	0.015636
15-Jun-2030	0.814786	9.973090	15.458200	2.495910	35.180963	1.279020	0.014684	0.142534	0.038460	0.002730	0.001653	0.103633	0.000469	0.009855	0.005450	0.001540	0.015404
16-Jun-2030	0.844421	9.828160	15.213100	2.465160	34.692444	1.256320	0.014439	0.140109	0.038235	0.002686	0.001642	0.102799	0.000462	0.009738	0.005368	0.001519	0.015186
17-Jun-2030	0.876894	9.695020	14.983900	2.437870	34.247614	1.234690	0.014208	0.137800	0.037981	0.002645	0.001630	0.101830	0.000454	0.009635	0.005292	0.001499	0.014986
18-Jun-2030	0.921301	9.554180	14.740600	2.409180	33.777791	1.211660	0.013962	0.135345	0.037746	0.002602	0.001618	0.100910	0.000446	0.009528	0.005212	0.001477	0.014774
19-Jun-2030	0.965869	9.405130	14.483200	2.378610	33.279726	1.187390	0.013704	0.132762	0.037510	0.002557	0.001607	0.100125	0.000438	0.009414	0.005127	0.001455	0.014550
20-Jun-2030	1.014654	9.288240	14.281400	2.354670	32.889266	1.168320	0.013500	0.130738	0.037256	0.002522	0.001596	0.099268	0.000431	0.009325	0.005061	0.001437	0.014372
21-Jun-2030	1.072946	9.120830	13.996600	2.319440	32.326166	1.141820	0.013215	0.127922	0.036984	0.002471	0.001582	0.098269	0.000422	0.009192	0.004966	0.001412	0.014119
22-Jun-2030	1.154816	8.990000	13.772800	2.292220	31.887392	1.120870	0.012991	0.125703	0.036791	0.002432	0.001571	0.097478	0.000415	0.009090	0.004892	0.001392	0.013922
23-Jun-2030	1.235617	8.873240	13.570500	2.268360	31.497587	1.101790	0.012789	0.123686	0.036604	0.002397	0.001562	0.096779	0.000408	0.009002	0.004825	0.001375	0.013746
24-Jun-2030	1.317292	8.758610	13.372700	2.244880	31.114665	1.083120	0.012590	0.121716	0.036436	0.002363	0.001553	0.096171	0.000402	0.008914	0.004760	0.001357	0.013573
25-Jun-2030	1.411176	8.659860	13.202000	2.224610	30.784614	1.067060	0.012419	0.120023	0.036309	0.002334	0.001546	0.095591	0.000396	0.008839	0.004704	0.001342	0.013424
26-Jun-2030	1.500792	8.554920	13.018100	2.203590	30.436019	1.049540	0.012235	0.118177	0.036200	0.002303	0.001537	0.094967	0.000390	0.008763	0.004645	0.001327	0.013267
27-Jun-2030	1.615217	8.468420	12.865800	2.186390	30.149199	1.034980	0.012083	0.116646	0.036043	0.002277	0.001531	0.094416	0.000385	0.008701	0.004595	0.001314	0.013136
28-Jun-2030	1.733464	8.364420	12.682100	2.165700	29.804309	1.017450	0.011900	0.114808	0.036000	0.002248	0.001524	0.094087	0.000379	0.008627	0.004536	0.001298	0.012980
29-Jun-2030	1.852217	8.251940	12.484400	2.143230	29.430915	0.998588	0.011702	0.112829	0.035846	0.002215	0.001517	0.093512	0.000373	0.008546	0.004472	0.001281	0.012810
30-Jun-2030	2.007184	8.124870	12.265100	2.116910	29.005236	0.978061	0.011485	0.110673	0.035686	0.002179	0.001506	0.092827	0.000366	0.008450	0.004400	0.001262	0.012619
1-Jul-2030	3.981057	6.745620	9.907610	1.822480	24.348786	0.758506	0.009113	0.087331	0.032802	0.001771	0.001387	0.083806	0.000290	0.007389	0.003627	0.001052	0.010522
2-Jul-2030	5.302367	6.745120	9.901620	1.817470	24.326906	0.758277	0.009101	0.087216	0.032912	0.001778	0.001382	0.084017	0.000290	0.007415	0.003632	0.001052	0.010519
3-Jul-2030	6.320873	6.675630	9.770240	1.804720	24.100885	0.745570	0.008975	0.085956	0.032849	0.001766	0.001379	0.084158	0.000286	0.007376	0.003593	0.001041	0.010409
4-Jul-2030	7.755050	6.657250	9.731290	1.801460	24.041566	0.741973	0.008944	0.085651	0.032846	0.001770	0.001378	0.084507	0.000284	0.007372	0.003583	0.001038	0.010377
5-Jul-2030	10.120266	6.908700	10.186100	1.839680	24.826826	0.787684	0.009403	0.090243	0.033243	0.001851	0.001384	0.085469	0.000300	0.007568	0.003737	0.001076	0.010757
6-Jul-2030	11.035371	6.703570	9.809680	1.808980	24.188194	0.749933	0.009028	0.086485	0.032910	0.001792	0.001380	0.085053	0.000287	0.007414	0.003612	0.001044	0.010443
7-Jul-2030	11.082612	6.805460	9.993700	1.824840	24.507925	0.768368	0.009213	0.088335	0.033062	0.001825	0.001382	0.085460	0.000293	0.007492	0.003674	0.001060	0.010596
8-Jul-2030	12.665122	7.079060	10.492200	1.866740	25.363648	0.818356	0.009712	0.093329	0.033460	0.001909	0.001388	0.086275	0.000310	0.007698	0.003840	0.001101	0.011010
9-Jul-2030	14.210355	7.035350	10.411500	1.861160	25.231526	0.810135	0.009631	0.092507	0.033350	0.001897	0.001388	0.086214	0.000307	0.007662	0.003812	0.001094	0.010942
10-Jul-2030	15.876753	7.391940	11.062100	1.915760	26.346774	0.875416	0.010282	0.099026	0.033870	0.002006	0.001396	0.087295	0.000329	0.007930	0.004029	0.001148	0.011482
11-Jul-2030	15.531908	7.733340	11.683200	1.967960	27.414209	0.937740	0.010905	0.105256	0.034363	0.002111	0.001403	0.088332	0.000350	0.008187	0.004236	0.001200	0.011997
12-Jul-2030	14.804888	7.701800	11.624900	1.963600	27.317499	0.931810	0.010847	0.104668	0.034315	0.002102	0.001403	0.088273	0.000348	0.008163	0.004217	0.001195	0.011950
13-Jul-2030	15.327422	7.245310	10.793400	1.894940	25.894902	0.848218	0.010011	0.096306	0.033591	0.001961	0.001393	0.086891	0.000320	0.007814	0.003938	0.001126	0.011257

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Jul-2030	15.648869	7.172810	10.661500	1.885520	25.675078	0.834790	0.009876	0.094950	0.033396	0.001939	0.001392	0.086677	0.000315	0.007751	0.003892	0.001114	0.011144
15-Jul-2030	15.869569	7.198850	10.698700	1.890440	25.760360	0.838493	0.009920	0.095379	0.033482	0.001958	0.001394	0.087362	0.000317	0.007784	0.003909	0.001118	0.011178
16-Jul-2030	14.965088	7.263640	10.820900	1.900370	25.963033	0.850718	0.010040	0.096576	0.033537	0.001973	0.001395	0.087313	0.000321	0.007825	0.003947	0.001128	0.011278
17-Jul-2030	13.943290	7.305220	10.896400	1.907270	26.095272	0.858240	0.010115	0.097326	0.033572	0.001987	0.001396	0.087467	0.000323	0.007854	0.003972	0.001134	0.011340
18-Jul-2030	13.400584	7.339070	10.958300	1.913130	26.203927	0.864354	0.010175	0.097931	0.033587	0.001997	0.001397	0.087561	0.000325	0.007876	0.003992	0.001139	0.011390
19-Jul-2030	12.477933	7.415320	11.096100	1.925310	26.444481	0.878158	0.010314	0.099315	0.033677	0.002022	0.001399	0.087879	0.000330	0.007933	0.004038	0.001150	0.011504
20-Jul-2030	13.825373	7.556600	11.354000	1.947420	26.888306	0.903929	0.010571	0.101884	0.033860	0.002064	0.001402	0.088271	0.000339	0.008037	0.004123	0.001172	0.011717
21-Jul-2030	14.268804	7.557210	11.346300	1.949590	26.898765	0.903068	0.010568	0.101841	0.033840	0.002076	0.001404	0.088904	0.000338	0.008042	0.004122	0.001171	0.011710
22-Jul-2030	14.735776	7.624260	11.469900	1.959820	27.108316	0.915446	0.010691	0.103071	0.033919	0.002094	0.001405	0.088957	0.000342	0.008090	0.004163	0.001181	0.011812
23-Jul-2030	14.995700	7.659840	11.538400	1.965520	27.220632	0.922211	0.010756	0.103723	0.033928	0.002100	0.001406	0.088836	0.000345	0.008110	0.004184	0.001187	0.011868
24-Jul-2030	14.674918	7.801310	11.793100	1.987960	27.666290	0.947739	0.011013	0.106288	0.034120	0.002148	0.001409	0.089503	0.000353	0.008218	0.004269	0.001208	0.012079
25-Jul-2030	14.938584	7.697170	11.605700	1.972500	27.342588	0.928846	0.010822	0.104382	0.033923	0.002113	0.001407	0.089016	0.000347	0.008133	0.004205	0.001192	0.011922
26-Jul-2030	14.190000	7.765920	11.731200	1.983570	27.559844	0.941359	0.010947	0.105628	0.033995	0.002134	0.001409	0.089215	0.000351	0.008182	0.004246	0.001203	0.012025
27-Jul-2030	13.844231	7.916300	12.005500	2.006750	28.030798	0.968854	0.011221	0.108371	0.034202	0.002180	0.001412	0.089654	0.000360	0.008294	0.004337	0.001225	0.012253
28-Jul-2030	13.164120	8.099880	12.340900	2.034930	28.605242	1.002510	0.011557	0.111730	0.034453	0.002235	0.001416	0.090168	0.000371	0.008430	0.004448	0.001253	0.012530
29-Jul-2030	13.669686	7.957120	12.078300	2.015190	28.167481	0.975948	0.011293	0.109076	0.034164	0.002195	0.001414	0.089910	0.000363	0.008317	0.004360	0.001231	0.012309
30-Jul-2030	13.600739	8.011170	12.176300	2.023790	28.337859	0.985729	0.011391	0.110052	0.034235	0.002212	0.001415	0.090106	0.000366	0.008357	0.004392	0.001239	0.012390
31-Jul-2030	13.503694	8.163980	12.455600	2.047070	28.815292	1.013760	0.011670	0.112851	0.034451	0.002258	0.001418	0.090514	0.000375	0.008471	0.004485	0.001262	0.012622
1-Aug-2030	14.629292	8.447240	12.972300	2.090470	29.701314	1.065590	0.012187	0.118025	0.034855	0.002344	0.001424	0.091335	0.000393	0.008683	0.004657	0.001305	0.013051
2-Aug-2030	14.866318	8.286400	12.679100	2.067990	29.207124	1.035930	0.011890	0.115039	0.034526	0.002295	0.001421	0.090897	0.000383	0.008552	0.004557	0.001280	0.012803
3-Aug-2030	15.150233	8.192770	12.506500	2.054780	28.918931	1.018520	0.011717	0.113296	0.034349	0.002269	0.001420	0.090763	0.000377	0.008479	0.004499	0.001266	0.012658
4-Aug-2030	15.765588	8.371930	12.835300	2.082100	29.478797	1.051460	0.012044	0.116573	0.034593	0.002321	0.001424	0.091157	0.000388	0.008611	0.004607	0.001293	0.012931
5-Aug-2030	14.679324	8.304360	12.713600	2.072780	29.271695	1.039110	0.011918	0.115309	0.034442	0.002299	0.001422	0.090891	0.000384	0.008553	0.004565	0.001283	0.012827
6-Aug-2030	13.910420	8.341180	12.781200	2.079020	29.389331	1.045830	0.011984	0.115967	0.034440	0.002311	0.001423	0.090999	0.000386	0.008576	0.004587	0.001288	0.012882
7-Aug-2030	14.771310	8.360540	12.818000	2.082920	29.453733	1.049370	0.012017	0.116294	0.034405	0.002315	0.001424	0.090977	0.000387	0.008584	0.004597	0.001291	0.012911
8-Aug-2030	15.338716	8.656710	13.355800	2.129940	30.386898	1.103220	0.012554	0.121655	0.034772	0.002411	0.001430	0.092092	0.000405	0.008802	0.004775	0.001335	0.013353
9-Aug-2030	16.184008	8.693190	13.422100	2.135770	30.501996	1.109810	0.012619	0.122309	0.034802	0.002421	0.001431	0.092183	0.000408	0.008828	0.004797	0.001341	0.013408
10-Aug-2030	16.815022	8.903140	13.805700	2.168020	31.159047	1.148270	0.013002	0.126142	0.035091	0.002485	0.001436	0.092769	0.000420	0.008983	0.004924	0.001373	0.013726
11-Aug-2030	16.472233	8.951890	13.893500	2.176330	31.314996	1.156980	0.013089	0.127003	0.035135	0.002502	0.001437	0.093000	0.000423	0.009018	0.004953	0.001380	0.013798
12-Aug-2030	17.369012	8.920700	13.833900	2.173540	31.225626	1.150810	0.013026	0.126364	0.035024	0.002496	0.001437	0.093138	0.000421	0.008989	0.004933	0.001375	0.013745
13-Aug-2030	17.550039	8.931940	13.856500	2.175350	31.261145	1.153080	0.013047	0.126574	0.034980	0.002498	0.001437	0.093055	0.000422	0.008993	0.004939	0.001376	0.013762
14-Aug-2030	17.052108	8.988740	13.960400	2.184540	31.440820	1.163420	0.013149	0.127597	0.035042	0.002515	0.001438	0.093221	0.000426	0.009033	0.004973	0.001385	0.013848
15-Aug-2030	16.416131	9.036670	14.051600	2.192950	31.595133	1.172370	0.013235	0.128447	0.035006	0.002525	0.001439	0.093135	0.000429	0.009057	0.005000	0.001392	0.013920
16-Aug-2030	16.171529	8.881850	13.770300	2.170120	31.114534	1.144020	0.012950	0.125597	0.034725	0.002477	0.001436	0.092637	0.000419	0.008935	0.004905	0.001368	0.013685
17-Aug-2030	16.018833	8.967550	13.927100	2.183450	31.383419	1.159710	0.013106	0.127157	0.034837	0.002503	0.001438	0.092870	0.000424	0.008998	0.004957	0.001381	0.013814
18-Aug-2030	15.805565	9.514980	14.926200	2.266880	33.093917	1.259990	0.014106	0.137165	0.035629	0.002669	0.001449	0.094427	0.000458	0.009408	0.005289	0.001464	0.014643
19-Aug-2030	15.271102	8.878030	13.765300	2.172160	31.113396	1.143120	0.012936	0.125447	0.034568	0.002474	0.001437	0.092552	0.000419	0.008917	0.004899	0.001367	0.013675
20-Aug-2030	14.751857	8.941650	13.881400	2.182690	31.315617	1.154670	0.013050	0.126582	0.034618	0.002494	0.001438	0.092757	0.000423	0.008960	0.004937	0.001377	0.013770
21-Aug-2030	14.635463	9.206650	14.365200	2.223400	32.144966	1.203210	0.013533	0.131417	0.034972	0.002576	0.001443	0.093537	0.000439	0.009157	0.005098	0.001417	0.014170
22-Aug-2030	14.705282	9.454970	14.818900	2.261710	32.922782	1.248690	0.013986	0.135946	0.035306	0.002651	0.001449	0.094226	0.000454	0.009340	0.005248	0.001455	0.014546
23-Aug-2030	14.879578	9.695570	15.256300	2.299220	33.678026	1.292510	0.014422	0.140303	0.035632	0.002727	0.001454	0.095055	0.000469	0.009519	0.005393	0.001491	0.014907
24-Aug-2030	15.280243	9.359800	14.643100	2.249220	32.633709	1.230830	0.013805	0.134125	0.035082	0.002626	0.001447	0.094156	0.000448	0.009262	0.005188	0.001440	0.014396
25-Aug-2030	15.146757	9.673630	15.215500	2.297500	33.616159	1.288230	0.014377	0.139844	0.035519	0.002722	0.001454	0.095092	0.000468	0.009496	0.005378	0.001487	0.014870
26-Aug-2030	14.276669	9.150070	14.261700	2.219540	31.987791	1.192250	0.013416	0.130220	0.034645	0.002562	0.001443	0.093538	0.000436	0.009091	0.005058	0.001407	0.014074
27-Aug-2030	13.932888	9.212650	14.376000	2.229570	32.185356	1.203650	0.013529	0.131347	0.034713	0.002581	0.001445	0.093718	0.000440	0.009136	0.005095	0.001417	0.014168
28-Aug-2030	13.659639	9.493700	14.889200	2.272560	33.064171	1.255130	0.014042	0.136481	0.035111	0.002666	0.001451	0.094515	0.000457	0.009345	0.005266	0.001459	0.014594
29-Aug-2030	13.462678	9.444350	14.799500	2.266360	32.915412	1.245950	0.013948	0.135534	0.034970	0.002652	0.001450	0.094395	0.000454	0.009301	0.005234	0.001452	0.014516
30-Aug-2030	13.663876	9.599160	15.081100	2.291300	33.404676	1.274060	0.014226	0.138306	0.035132	0.002701	0.001453	0.094929	0.000463	0.009412	0.005327	0.001475	0.014747
31-Aug-2030	13.915322	9.669640	15.208300	2.302840	33.628186	1.286740	0.014351	0.139556	0.035195	0.002725	0.001455	0.095260	0.000467	0.009463	0.005369	0.001485	0.014851
1-Sep-2030	12.784402	9.698350	15.262500	2.307550	33.719271	1.292120	0.014404	0.140083	0.035206	0.002731	0.001456	0.095228	0.000469	0.009480	0.005386	0.001490	0.014895
2-Sep-2030	12.079088	9.743920	15.345600	2.314930	33.863450	1.300380	0.014485	0.140900	0.035249	0.002745	0.001457	0.095373	0.000472	0.009513	0.005413	0.001496	0.014964
3-Sep-2030	11.982598	9.899830	15.630200	2.339090	34.352248	1.328960	0.014769	0.143735	0.035427	0.002794	0.001460	0.095871	0.000481	0.009627	0.005508	0.001520	0.015198

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4-Sep-2030	11.713504	9.459420	14.826000	2.272800	32.979562	1.248160	0.013962	0.135655	0.034745	0.002662	0.001451	0.094674	0.000455	0.009293	0.005239	0.001453	0.014529
5-Sep-2030	11.346061	9.808240	15.462600	2.326110	34.070096	1.312070	0.014599	0.142025	0.035229	0.002769	0.001458	0.095703	0.000476	0.009554	0.005451	0.001506	0.015056
6-Sep-2030	11.276796	10.087000	15.973000	2.368700	34.941546	1.363360	0.015109	0.147127	0.035600	0.002854	0.001463	0.096460	0.000493	0.009759	0.005620	0.001548	0.015477
7-Sep-2030	11.412680	9.994010	15.804300	2.354690	34.651656	1.346430	0.014939	0.145431	0.035443	0.002825	0.001461	0.096156	0.000487	0.009687	0.005563	0.001534	0.015335
8-Sep-2030	10.940963	9.603140	15.091200	2.295880	33.433474	1.274890	0.014223	0.138261	0.034804	0.002709	0.001452	0.095133	0.000464	0.009389	0.005325	0.001474	0.014740
9-Sep-2030	10.237773	9.686270	15.244000	2.308210	33.691825	1.290270	0.014378	0.139813	0.034947	0.002733	0.001454	0.095288	0.000469	0.009451	0.005376	0.001487	0.014868
10-Sep-2030	10.037761	10.023600	15.859900	2.359620	34.745844	1.352080	0.014994	0.145984	0.035435	0.002835	0.001461	0.096240	0.000489	0.009704	0.005581	0.001538	0.015379
11-Sep-2030	10.157879	10.147900	16.087200	2.378660	35.134628	1.374890	0.015220	0.148246	0.035588	0.002873	0.001463	0.096581	0.000497	0.009796	0.005656	0.001557	0.015566
12-Sep-2030	10.203206	10.406000	16.558500	2.418030	35.941230	1.422190	0.015692	0.152968	0.035963	0.002951	0.001469	0.097309	0.000513	0.009989	0.005813	0.001596	0.015957
13-Sep-2030	9.731836	10.023100	15.862000	2.360110	34.746614	1.352350	0.014993	0.145973	0.035347	0.002835	0.001460	0.096169	0.000489	0.009695	0.005580	0.001538	0.015376
14-Sep-2030	9.424059	10.146100	16.088200	2.379190	35.132316	1.375120	0.015218	0.148217	0.035473	0.002874	0.001462	0.096525	0.000497	0.009782	0.005654	0.001556	0.015559
15-Sep-2030	9.642823	9.918040	15.672300	2.344680	34.420738	1.333350	0.014801	0.144046	0.035119	0.002804	0.001457	0.095845	0.000483	0.009609	0.005515	0.001521	0.015213
16-Sep-2030	9.607752	10.290800	16.352900	2.401300	35.584681	1.401670	0.015484	0.150879	0.035679	0.002916	0.001465	0.096876	0.000506	0.009890	0.005741	0.001578	0.015780
17-Sep-2030	9.580269	10.369300	16.496200	2.413420	35.830606	1.416070	0.015627	0.152313	0.035784	0.002941	0.001466	0.097129	0.000511	0.009948	0.005789	0.001590	0.015898
18-Sep-2030	9.258150	10.271900	16.318400	2.398920	35.527687	1.398250	0.015448	0.150519	0.035609	0.002913	0.001464	0.096895	0.000505	0.009873	0.005730	0.001575	0.015748
19-Sep-2030	8.899622	10.502300	16.739700	2.434020	36.247537	1.440540	0.015870	0.154743	0.035942	0.002982	0.001469	0.097512	0.000519	0.010045	0.005869	0.001610	0.016098
20-Sep-2030	8.446204	10.567900	16.860800	2.443940	36.452191	1.452760	0.015991	0.155952	0.036009	0.003002	0.001470	0.097661	0.000523	0.010091	0.005909	0.001620	0.016197
21-Sep-2030	8.234254	10.749800	17.193400	2.471630	37.020423	1.486180	0.016324	0.159283	0.036256	0.003057	0.001473	0.098171	0.000534	0.010227	0.006020	0.001647	0.016472
22-Sep-2030	7.930611	10.960700	17.578500	2.503880	37.679846	1.524840	0.016710	0.163144	0.036555	0.003121	0.001478	0.098765	0.000547	0.010384	0.006148	0.001679	0.016791
23-Sep-2030	7.799356	11.109400	17.850500	2.526730	38.145246	1.552170	0.016981	0.165855	0.036730	0.003167	0.001480	0.099193	0.000556	0.010493	0.006238	0.001701	0.017014
24-Sep-2030	7.545049	11.149600	17.924000	2.533010	38.271486	1.559520	0.017056	0.166604	0.036836	0.003178	0.001482	0.099285	0.000558	0.010523	0.006262	0.001708	0.017077
25-Sep-2030	7.450501	10.800600	17.289100	2.480090	37.182109	1.495840	0.016417	0.160219	0.036240	0.003072	0.001474	0.098235	0.000537	0.010255	0.006049	0.001655	0.016546
26-Sep-2030	7.229225	10.640800	16.998700	2.455890	36.683433	1.466720	0.016126	0.157302	0.035979	0.003024	0.001470	0.097752	0.000527	0.010132	0.005952	0.001630	0.016304
27-Sep-2030	6.416796	10.542900	16.821500	2.441210	36.378524	1.448990	0.015948	0.155518	0.035799	0.002994	0.001467	0.097445	0.000522	0.010055	0.005892	0.001615	0.016154
28-Sep-2030	5.808225	10.566800	16.864800	2.445130	36.454345	1.453250	0.015992	0.155964	0.035864	0.003000	0.001468	0.097493	0.000523	0.010074	0.005907	0.001619	0.016192
29-Sep-2030	5.446054	10.549800	16.836600	2.442780	36.402219	1.450540	0.015961	0.155646	0.035743	0.002996	0.001467	0.097396	0.000522	0.010053	0.005896	0.001616	0.016163
30-Sep-2030	4.951365	10.604200	16.936500	2.451090	36.572276	1.460550	0.016062	0.156657	0.035854	0.003011	0.001468	0.097493	0.000525	0.010093	0.005928	0.001625	0.016247
1-Oct-2030	4.213805	10.447200	16.650200	2.427360	36.082527	1.431830	0.015774	0.153778	0.035576	0.002964	0.001465	0.097070	0.000516	0.009973	0.005833	0.001601	0.016007
2-Oct-2030	3.322289	10.356000	16.484400	2.413120	35.796160	1.415310	0.015609	0.152127	0.035438	0.002938	0.001462	0.096853	0.000510	0.009905	0.005778	0.001587	0.015869
3-Oct-2030	2.542829	10.326000	16.429900	2.408330	35.701525	1.409900	0.015555	0.151591	0.035399	0.002928	0.001461	0.096783	0.000508	0.009883	0.005760	0.001582	0.015824
4-Oct-2030	1.541174	10.292900	16.368800	2.403390	35.598531	1.403780	0.015495	0.150988	0.035359	0.002919	0.001461	0.096691	0.000506	0.009859	0.005740	0.001577	0.015773
5-Oct-2030	0.827185	10.260900	16.310400	2.398330	35.497790	1.397970	0.015437	0.150416	0.035330	0.002909	0.001460	0.096604	0.000504	0.009836	0.005721	0.001573	0.015726
6-Oct-2030	0.568231	10.258300	16.305800	2.397820	35.489198	1.397520	0.015433	0.150372	0.035328	0.002908	0.001460	0.096563	0.000504	0.009834	0.005719	0.001572	0.015722
7-Oct-2030	0.125367	10.230900	16.256200	2.393410	35.402620	1.392610	0.015384	0.149885	0.035289	0.002900	0.001459	0.096483	0.000503	0.009813	0.005703	0.001568	0.015681
8-Oct-2030	0.078671	10.188800	16.181300	2.386170	35.267682	1.385370	0.015311	0.149157	0.035212	0.002889	0.001457	0.096403	0.000500	0.009780	0.005678	0.001562	0.015616
9-Oct-2030	0.104249	10.185400	16.175000	2.385640	35.257009	1.384800	0.015304	0.149093	0.035189	0.002889	0.001457	0.096436	0.000500	0.009777	0.005676	0.001561	0.015610
10-Oct-2030	0.078629	10.175800	16.157500	2.384150	35.226902	1.383050	0.015287	0.148921	0.035177	0.002886	0.001456	0.096389	0.000499	0.009770	0.005670	0.001560	0.015596
11-Oct-2030	0.067515	10.148500	16.108000	2.379770	35.140697	1.378200	0.015238	0.148434	0.035127	0.002879	0.001455	0.096331	0.000498	0.009750	0.005654	0.001555	0.015554
12-Oct-2030	0.048853	10.116700	16.051600	2.374350	35.038973	1.372750	0.015183	0.147885	0.035069	0.002870	0.001454	0.096217	0.000496	0.009725	0.005635	0.001551	0.015505
13-Oct-2030	0.048032	10.129500	16.074800	2.376300	35.078965	1.375050	0.015206	0.148113	0.035083	0.002874	0.001454	0.096214	0.000497	0.009734	0.005642	0.001552	0.015525
14-Oct-2030	0.027899	10.117700	16.054100	2.374170	35.040729	1.373040	0.015186	0.147914	0.035072	0.002870	0.001454	0.096139	0.000496	0.009725	0.005635	0.001551	0.015507
15-Oct-2030	0.030419	10.099600	16.021700	2.371080	34.982809	1.369920	0.015154	0.147598	0.035033	0.002865	0.001452	0.096106	0.000495	0.009711	0.005625	0.001548	0.015479
16-Oct-2030	0.028037	10.107500	16.033000	2.373310	35.011718	1.370780	0.015165	0.147697	0.035066	0.002868	0.001454	0.096212	0.000495	0.009719	0.005629	0.001549	0.015491
17-Oct-2030	0.028675	10.189200	16.161200	2.393000	35.296806	1.381540	0.015286	0.148873	0.035375	0.002890	0.001467	0.097012	0.000499	0.009800	0.005674	0.001562	0.015617
18-Oct-2030	0.030879	10.259000	16.271300	2.409780	35.540197	1.390940	0.015389	0.149885	0.035625	0.002910	0.001477	0.097720	0.000503	0.009868	0.005713	0.001572	0.015724
19-Oct-2030	0.034075	10.295600	16.327800	2.418650	35.668114	1.395540	0.015442	0.150397	0.035768	0.002920	0.001483	0.098076	0.000504	0.009904	0.005733	0.001578	0.015781
20-Oct-2030	0.037505	10.324300	16.372500	2.425710	35.768851	1.399260	0.015484	0.150804	0.035877	0.002928	0.001488	0.098373	0.000506	0.009933	0.005749	0.001583	0.015825
21-Oct-2030	0.037114	10.312000	16.352500	2.423000	35.726978	1.397490	0.015465	0.150619	0.035841	0.002924	0.001486	0.098269	0.000505	0.009922	0.005742	0.001581	0.015807
22-Oct-2030	0.036354	10.355600	16.421600	2.433250	35.878057	1.403390	0.015531	0.151255	0.035994	0.002937	0.001493	0.098683	0.000507	0.009964	0.005766	0.001587	0.015873
23-Oct-2030	0.035025	10.394500	16.483200	2.442410	36.012911	1.408650	0.015589	0.151823	0.036131	0.002948	0.001498	0.099055	0.000509	0.010001	0.005788	0.001593	0.015933
24-Oct-2030	0.033929	10.431400	16.541700	2.451040	36.140589	1.413660	0.015644	0.152362	0.036258	0.002958	0.001504	0.099406	0.000511	0.010037	0.005808	0.001599	0.015990
25-Oct-2030	0.033521	10.467700	16.599400	2.459590	36.266439	1.418590	0.015699	0.152893	0.036383	0.002968	0.001509	0.099755	0.000513	0.010072	0.005829	0.001605	0.016045

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
26-Oct-2030	0.034083	10.510000	16.666000	2.469680	36.413612	1.424250	0.015762	0.153504	0.036531	0.002981	0.001515	0.100179	0.000515	0.010113	0.005852	0.001611	0.016110
27-Oct-2030	0.034475	10.554000	16.734300	2.480440	36.567790	1.429960	0.015826	0.154126	0.036689	0.002994	0.001522	0.100652	0.000517	0.010156	0.005876	0.001618	0.016177
28-Oct-2030	0.034090	10.587300	16.791200	2.488230	36.683019	1.435220	0.015881	0.154669	0.036803	0.003003	0.001527	0.100975	0.000519	0.010188	0.005896	0.001623	0.016228
29-Oct-2030	0.033756	10.639100	16.873300	2.499150	36.857332	1.442240	0.015959	0.155426	0.036956	0.003017	0.001532	0.101328	0.000521	0.010234	0.005924	0.001631	0.016308
30-Oct-2030	0.033194	10.690500	16.954300	2.511360	37.035959	1.449110	0.016035	0.156169	0.037138	0.003032	0.001540	0.101832	0.000524	0.010284	0.005953	0.001639	0.016386
31-Oct-2030	0.032389	10.736200	17.027100	2.522020	37.193970	1.455360	0.016104	0.156841	0.037294	0.003045	0.001547	0.102260	0.000526	0.010328	0.005978	0.001646	0.016456
1-Nov-2030	0.030142	10.783600	17.103900	2.532670	37.356184	1.462090	0.016177	0.157555	0.037445	0.003058	0.001553	0.102668	0.000528	0.010372	0.006005	0.001653	0.016529
2-Nov-2030	0.028630	10.805500	17.139000	2.537630	37.431294	1.465160	0.016210	0.157882	0.037514	0.003065	0.001555	0.102893	0.000529	0.010392	0.006017	0.001656	0.016562
3-Nov-2030	0.028197	10.832000	17.181000	2.543890	37.523243	1.468740	0.016250	0.158267	0.037604	0.003072	0.001560	0.103227	0.000531	0.010418	0.006032	0.001660	0.016603
4-Nov-2030	0.027661	10.842700	17.190300	2.548880	37.570510	1.468830	0.016256	0.158316	0.037682	0.003077	0.001564	0.103516	0.000531	0.010434	0.006037	0.001662	0.016618
5-Nov-2030	0.026964	10.865500	17.229300	2.553350	37.645849	1.472430	0.016294	0.158687	0.037739	0.003083	0.001566	0.103638	0.000532	0.010454	0.006050	0.001665	0.016653
6-Nov-2030	0.026726	10.895700	17.278500	2.560050	37.748849	1.476750	0.016341	0.159145	0.037836	0.003092	0.001570	0.103880	0.000534	0.010482	0.006067	0.001670	0.016699
7-Nov-2030	0.026617	10.932900	17.337700	2.568690	37.877317	1.481840	0.016397	0.159692	0.037964	0.003102	0.001575	0.104219	0.000536	0.010517	0.006088	0.001676	0.016756
8-Nov-2030	0.026915	10.977100	17.407300	2.579300	38.031376	1.487730	0.016462	0.160330	0.038121	0.003115	0.001582	0.104662	0.000538	0.010560	0.006112	0.001682	0.016824
9-Nov-2030	0.027001	11.024500	17.480900	2.590910	38.197544	1.493890	0.016532	0.161000	0.038289	0.003129	0.001589	0.105175	0.000540	0.010607	0.006138	0.001690	0.016896
10-Nov-2030	0.027172	11.065400	17.545700	2.600530	38.339286	1.499420	0.016593	0.161596	0.038431	0.003141	0.001595	0.105575	0.000542	0.010646	0.006161	0.001696	0.016959
11-Nov-2030	0.027262	11.104300	17.607800	2.609530	38.473482	1.504780	0.016652	0.162171	0.038563	0.003152	0.001601	0.105932	0.000544	0.010683	0.006183	0.001702	0.017018
12-Nov-2030	0.027121	11.144000	17.671100	2.618710	38.610416	1.510220	0.016712	0.162756	0.038700	0.003163	0.001606	0.106294	0.000546	0.010721	0.006205	0.001708	0.017079
13-Nov-2030	0.027092	11.192900	17.748400	2.630260	38.780082	1.516810	0.016785	0.163468	0.038872	0.003177	0.001613	0.106766	0.000548	0.010768	0.006232	0.001715	0.017154
14-Nov-2030	0.026858	11.235600	17.814500	2.640830	38.930231	1.522310	0.016847	0.164068	0.039027	0.003189	0.001620	0.107239	0.000550	0.010811	0.006256	0.001722	0.017219
15-Nov-2030	0.026642	11.296900	17.909700	2.655920	39.145438	1.530260	0.016936	0.164934	0.039248	0.003207	0.001630	0.107909	0.000553	0.010871	0.006289	0.001731	0.017313
16-Nov-2030	0.026576	11.363300	18.015300	2.671440	39.375150	1.539310	0.017036	0.165907	0.039476	0.003226	0.001639	0.108533	0.000556	0.010935	0.006327	0.001741	0.017415
17-Nov-2030	0.026606	11.438200	18.134100	2.688960	39.634323	1.549480	0.017148	0.167003	0.039736	0.003247	0.001650	0.109239	0.000560	0.011007	0.006368	0.001753	0.017529
18-Nov-2030	0.026633	11.510800	18.249200	2.706070	39.886064	1.559310	0.017257	0.168063	0.039989	0.003268	0.001660	0.109935	0.000564	0.011077	0.006409	0.001764	0.017641
19-Nov-2030	0.026656	11.595600	18.382800	2.726440	40.181693	1.570600	0.017383	0.169285	0.040287	0.003292	0.001673	0.110765	0.000568	0.011159	0.006455	0.001777	0.017771
20-Nov-2030	0.026521	11.679700	18.516600	2.746110	40.472692	1.582060	0.017509	0.170519	0.040578	0.003316	0.001685	0.111552	0.000572	0.011239	0.006502	0.001790	0.017900
21-Nov-2030	0.026304	11.741500	18.614300	2.760710	40.687129	1.590390	0.017602	0.171417	0.040794	0.003333	0.001694	0.112151	0.000575	0.011299	0.006537	0.001799	0.017994
22-Nov-2030	0.026195	11.781200	18.675400	2.770580	40.826905	1.595460	0.017659	0.171972	0.040940	0.003345	0.001701	0.112602	0.000577	0.011339	0.006559	0.001805	0.018055
23-Nov-2030	0.026168	11.829300	18.752100	2.781720	40.992885	1.602060	0.017732	0.172681	0.041105	0.003359	0.001707	0.113047	0.000579	0.011385	0.006585	0.001813	0.018129
24-Nov-2030	0.026160	11.882600	18.837000	2.794110	41.176997	1.609350	0.017812	0.173465	0.041288	0.003374	0.001715	0.113543	0.000582	0.011436	0.006615	0.001821	0.018210
25-Nov-2030	0.026109	11.935100	18.920500	2.806350	41.358494	1.616520	0.017891	0.174236	0.041469	0.003389	0.001722	0.114035	0.000584	0.011486	0.006645	0.001829	0.018291
26-Nov-2030	0.026039	11.977100	18.987300	2.816170	41.503807	1.622240	0.017955	0.174852	0.041615	0.003401	0.001728	0.114433	0.000586	0.011527	0.006668	0.001836	0.018355
27-Nov-2030	0.025822	12.018900	19.053200	2.826030	41.648785	1.627860	0.018017	0.175458	0.041760	0.003413	0.001734	0.114842	0.000588	0.011567	0.006691	0.001842	0.018419
28-Nov-2030	0.025768	12.090900	19.166900	2.843090	41.898822	1.637540	0.018124	0.176503	0.042012	0.003433	0.001745	0.115549	0.000592	0.011637	0.006731	0.001853	0.018529
29-Nov-2030	0.025691	12.116100	19.207100	2.848970	41.985960	1.640990	0.018162	0.176874	0.042098	0.003440	0.001749	0.115788	0.000593	0.011661	0.006745	0.001857	0.018568
30-Nov-2030	0.025619	12.145700	19.254700	2.855660	42.087421	1.645130	0.018208	0.177317	0.042197	0.003449	0.001752	0.116042	0.000595	0.011689	0.006762	0.001861	0.018613
1-Dec-2030	0.025542	12.174900	19.301300	2.862480	42.188418	1.649130	0.018252	0.177746	0.042298	0.003457	0.001757	0.116316	0.000596	0.011717	0.006778	0.001866	0.018658
2-Dec-2030	0.025513	12.234300	19.395300	2.876430	42.394186	1.657160	0.018341	0.178613	0.042504	0.003474	0.001765	0.116884	0.000599	0.011774	0.006811	0.001875	0.018749
3-Dec-2030	0.025476	12.290400	19.484400	2.889550	42.588296	1.664790	0.018425	0.179434	0.042697	0.003490	0.001773	0.117415	0.000602	0.011828	0.006843	0.001884	0.018835
4-Dec-2030	0.025461	12.315300	19.524200	2.895290	42.674108	1.668230	0.018463	0.179802	0.042782	0.003497	0.001777	0.117641	0.000603	0.011851	0.006856	0.001887	0.018873
5-Dec-2030	0.025478	12.340700	19.564600	2.901250	42.762075	1.671690	0.018501	0.180175	0.042870	0.003504	0.001780	0.117881	0.000604	0.011876	0.006871	0.001891	0.018912
6-Dec-2030	0.025437	12.376100	19.620800	2.909520	42.884525	1.676500	0.018554	0.180693	0.042992	0.003514	0.001785	0.118214	0.000606	0.011910	0.006890	0.001897	0.018966
7-Dec-2030	0.025427	12.410900	19.676200	2.917660	43.004941	1.681250	0.018607	0.181204	0.043112	0.003524	0.001790	0.118541	0.000608	0.011943	0.006910	0.001902	0.019020
8-Dec-2030	0.025388	12.434900	19.714300	2.923250	43.087889	1.684520	0.018643	0.181556	0.043195	0.003531	0.001794	0.118765	0.000609	0.011966	0.006923	0.001906	0.019057
9-Dec-2030	0.025368	12.458300	19.751400	2.928750	43.168968	1.687690	0.018678	0.181898	0.043276	0.003537	0.001797	0.118988	0.000610	0.011989	0.006936	0.001909	0.019092
10-Dec-2030	0.025369	12.392800	19.647400	2.913380	42.942120	1.678800	0.018579	0.180939	0.043049	0.003519	0.001788	0.118367	0.000607	0.011926	0.006900	0.001899	0.018992
11-Dec-2030	0.025377	12.440000	19.722200	2.924500	43.105771	1.685180	0.018650	0.181628	0.043213	0.003532	0.001794	0.118821	0.000609	0.011971	0.006926	0.001906	0.019064
12-Dec-2030	0.025384	12.496000	19.811000	2.937670	43.299837	1.692760	0.018734	0.182445	0.043408	0.003548	0.001803	0.119357	0.000612	0.012025	0.006957	0.001915	0.019150
13-Dec-2030	0.025386	12.553600	19.902300	2.951200	43.499381	1.700570	0.018820	0.183286	0.043608	0.003564	0.001811	0.119906	0.000615	0.012080	0.006989	0.001924	0.019238
14-Dec-2030	0.025383	12.609100	19.990400	2.964230	43.691622	1.708100	0.018904	0.184098	0.043800	0.003580	0.001819	0.120433	0.000617	0.012134	0.007020	0.001932	0.019324
15-Dec-2030	0.025369	12.665500	20.079900	2.977470	43.886975	1.715760	0.018988	0.184923	0.043996	0.003596	0.001827	0.120969	0.000620	0.012188	0.007052	0.001941	0.019410
16-Dec-2030	0.025338	12.714200	20.157200	2.988920	44.055730	1.722360	0.019061	0.185634	0.044165	0.003610	0.001834	0.121434	0.000623	0.012235	0.007079	0.001948	0.019485

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
17-Dec-2030	0.025270	12.753500	20.219300	2.998170	44.191954	1.727660	0.019120	0.186206	0.044302	0.003621	0.001840	0.121812	0.000625	0.012273	0.007101	0.001954	0.019545
18-Dec-2030	0.025227	12.807100	20.304100	3.010810	44.377844	1.734900	0.019200	0.186987	0.044489	0.003636	0.001847	0.122329	0.000627	0.012324	0.007130	0.001963	0.019627
19-Dec-2030	0.025177	12.785600	20.270100	3.005790	44.303486	1.731980	0.019168	0.186672	0.044414	0.003630	0.001844	0.122128	0.000626	0.012304	0.007118	0.001959	0.019594
20-Dec-2030	0.025075	12.832500	20.344300	3.016840	44.466100	1.738320	0.019238	0.187355	0.044577	0.003644	0.001851	0.122580	0.000628	0.012349	0.007144	0.001967	0.019666
21-Dec-2030	0.025033	12.885600	20.428300	3.029380	44.650330	1.745480	0.019318	0.188128	0.044762	0.003659	0.001859	0.123095	0.000631	0.012400	0.007174	0.001975	0.019747
22-Dec-2030	0.025005	12.935000	20.506700	3.041000	44.821533	1.752180	0.019392	0.188850	0.044933	0.003673	0.001866	0.123568	0.000633	0.012448	0.007202	0.001982	0.019823
23-Dec-2030	0.024948	12.989100	20.592500	3.053710	45.008960	1.759510	0.019473	0.189640	0.045121	0.003688	0.001874	0.124085	0.000636	0.012500	0.007232	0.001991	0.019906
24-Dec-2030	0.024919	13.047700	20.685200	3.067510	45.212113	1.767420	0.019560	0.190493	0.045324	0.003705	0.001882	0.124649	0.000639	0.012556	0.007264	0.002000	0.019995
25-Dec-2030	0.024904	13.098700	20.766200	3.079510	45.388876	1.774350	0.019637	0.191239	0.045502	0.003719	0.001890	0.125136	0.000641	0.012605	0.007293	0.002007	0.020074
26-Dec-2030	0.024859	13.154600	20.854700	3.092620	45.582445	1.781920	0.019721	0.192055	0.045695	0.003735	0.001898	0.125668	0.000644	0.012659	0.007324	0.002016	0.020159
27-Dec-2030	0.024850	13.197200	20.922300	3.102680	45.730245	1.787680	0.019785	0.192677	0.045844	0.003747	0.001904	0.126080	0.000646	0.012700	0.007347	0.002022	0.020225
28-Dec-2030	0.024838	13.237400	20.986000	3.112140	45.869580	1.793120	0.019845	0.193263	0.045983	0.003759	0.001910	0.126465	0.000648	0.012739	0.007370	0.002029	0.020286
29-Dec-2030	0.024812	13.321300	21.119000	3.131840	46.160203	1.804490	0.019971	0.194488	0.046274	0.003783	0.001922	0.127264	0.000652	0.012819	0.007417	0.002041	0.020415
30-Dec-2030	0.024806	13.392700	21.232100	3.148640	46.407671	1.814150	0.020078	0.195529	0.046522	0.003803	0.001932	0.127950	0.000656	0.012888	0.007456	0.002052	0.020524
31-Dec-2030	0.024791	13.460700	21.339800	3.164630	46.643314	1.823360	0.020179	0.196521	0.046758	0.003822	0.001942	0.128600	0.000659	0.012954	0.007494	0.002063	0.020628
1-Jan-2031	0.024779	13.552400	21.485300	3.186170	46.960991	1.835800	0.020317	0.197862	0.047077	0.003848	0.001955	0.129473	0.000664	0.013042	0.007545	0.002077	0.020769
2-Jan-2031	0.024755	13.639200	21.623100	3.206570	47.261738	1.847570	0.020447	0.199131	0.047378	0.003873	0.001968	0.130300	0.000668	0.013125	0.007594	0.002090	0.020902
3-Jan-2031	0.024737	13.668100	21.668800	3.213350	47.361821	1.851480	0.020491	0.199552	0.047478	0.003881	0.001972	0.130576	0.000669	0.013153	0.007610	0.002095	0.020946
4-Jan-2031	0.024723	13.707900	21.731900	3.222700	47.499705	1.856870	0.020550	0.200133	0.047616	0.003892	0.001977	0.130956	0.000671	0.013191	0.007632	0.002101	0.021007
5-Jan-2031	0.024690	13.753400	21.804000	3.233390	47.657340	1.863040	0.020619	0.200797	0.047774	0.003905	0.001984	0.131390	0.000673	0.013235	0.007657	0.002108	0.021077
6-Jan-2031	0.024676	13.790300	21.862500	3.242110	47.785388	1.868020	0.020674	0.201335	0.047902	0.003916	0.001989	0.131748	0.000675	0.013271	0.007678	0.002113	0.021133
7-Jan-2031	0.024669	13.832400	21.929200	3.252000	47.931239	1.873720	0.020737	0.201949	0.048048	0.003928	0.001995	0.132150	0.000677	0.013311	0.007701	0.002120	0.021198
8-Jan-2031	0.024633	13.889000	22.019000	3.265320	48.127421	1.881390	0.020822	0.202776	0.048245	0.003944	0.002004	0.132692	0.000680	0.013366	0.007733	0.002128	0.021285
9-Jan-2031	0.024619	13.935200	22.092000	3.276250	48.287792	1.887620	0.020891	0.203448	0.048406	0.003957	0.002010	0.133142	0.000682	0.013410	0.007758	0.002136	0.021355
10-Jan-2031	0.024614	13.970900	22.148500	3.284650	48.411526	1.892430	0.020944	0.203967	0.048530	0.003967	0.002016	0.133486	0.000684	0.013445	0.007778	0.002141	0.021410
11-Jan-2031	0.024608	14.021700	22.229100	3.296580	48.587501	1.899330	0.021020	0.204710	0.048707	0.003982	0.002023	0.133969	0.000687	0.013494	0.007806	0.002149	0.021488
12-Jan-2031	0.024602	13.915700	22.060300	3.271860	48.221022	1.884850	0.020861	0.203153	0.048341	0.003952	0.002008	0.132982	0.000681	0.013392	0.007747	0.002133	0.021325
13-Jan-2031	0.024592	13.958400	22.128100	3.281890	48.368948	1.890640	0.020925	0.203777	0.048489	0.003964	0.002014	0.133388	0.000683	0.013433	0.007771	0.002139	0.021391
14-Jan-2031	0.024577	14.016100	22.219500	3.295500	48.569071	1.898440	0.021011	0.204618	0.048690	0.003980	0.002022	0.133945	0.000686	0.013489	0.007803	0.002148	0.021479
15-Jan-2031	0.024562	14.067200	22.300300	3.307560	48.746330	1.905330	0.021087	0.205361	0.048868	0.003995	0.002030	0.134439	0.000689	0.013538	0.007832	0.002156	0.021557
16-Jan-2031	0.024542	14.102800	22.357400	3.315720	48.868827	1.910270	0.021142	0.205890	0.048989	0.004005	0.002035	0.134754	0.000691	0.013572	0.007852	0.002161	0.021612
17-Jan-2031	0.024538	14.187800	22.492200	3.335690	49.163308	1.921790	0.021269	0.207132	0.049284	0.004029	0.002047	0.135565	0.000695	0.013654	0.007899	0.002174	0.021742
18-Jan-2031	0.024533	14.289200	22.653100	3.359510	49.514595	1.935550	0.021421	0.208614	0.049636	0.004058	0.002061	0.136530	0.000700	0.013751	0.007955	0.002190	0.021898
19-Jan-2031	0.024527	14.401400	22.831000	3.385890	49.903391	1.950750	0.021589	0.210252	0.050026	0.004090	0.002078	0.137603	0.000705	0.013859	0.008018	0.002207	0.022070
20-Jan-2031	0.024532	14.516100	23.012800	3.412850	50.300818	1.966280	0.021761	0.211926	0.050424	0.004122	0.002094	0.138698	0.000711	0.013970	0.008082	0.002225	0.022245
21-Jan-2031	0.024533	14.710600	23.321700	3.458430	50.974183	1.992720	0.022054	0.214774	0.051097	0.004177	0.002122	0.140538	0.000720	0.014156	0.008190	0.002254	0.022544
22-Jan-2031	0.024533	14.924700	23.660900	3.508820	51.716297	2.021690	0.022374	0.217896	0.051842	0.004238	0.002153	0.142591	0.000731	0.014362	0.008309	0.002287	0.022872
23-Jan-2031	0.024521	15.105200	23.946800	3.551330	52.342061	2.046090	0.022645	0.220528	0.052470	0.004289	0.002179	0.144325	0.000740	0.014536	0.008410	0.002315	0.023148
24-Jan-2031	0.024506	15.195500	24.089900	3.572590	52.655089	2.058320	0.022780	0.221846	0.052784	0.004315	0.002192	0.145191	0.000744	0.014623	0.008460	0.002329	0.023287
25-Jan-2031	0.024490	15.270300	24.208300	3.590190	52.914342	2.068430	0.022892	0.222936	0.053044	0.004336	0.002203	0.145908	0.000748	0.014695	0.008502	0.002340	0.023401
26-Jan-2031	0.024478	15.362500	24.354500	3.611900	53.233967	2.080910	0.023030	0.224282	0.053365	0.004363	0.002216	0.146792	0.000752	0.014784	0.008553	0.002354	0.023543
27-Jan-2031	0.024469	15.476800	24.535600	3.638780	53.630066	2.096370	0.023201	0.225949	0.053762	0.004395	0.002233	0.147886	0.000758	0.014894	0.008617	0.002372	0.023718
28-Jan-2031	0.024461	15.599700	24.730400	3.667700	54.056040	2.113020	0.023386	0.227743	0.054189	0.004430	0.002251	0.149063	0.000764	0.015013	0.008685	0.002391	0.023906
29-Jan-2031	0.024454	15.713900	24.911400	3.694560	54.451806	2.128480	0.023557	0.229410	0.054586	0.004462	0.002267	0.150155	0.000769	0.015122	0.008749	0.002408	0.024081
30-Jan-2031	0.024444	15.801200	25.049800	3.715060	54.754213	2.140310	0.023687	0.230684	0.054888	0.004487	0.002280	0.150988	0.000774	0.015206	0.008797	0.002421	0.024215
31-Jan-2031	0.024432	15.879600	25.174200	3.733500	55.025914	2.150940	0.023805	0.231830	0.055161	0.004510	0.002291	0.151737	0.000778	0.015282	0.008841	0.002433	0.024335
1-Feb-2031	0.024420	15.954100	25.292300	3.751010	55.284047	2.161040	0.023917	0.232918	0.055419	0.004531	0.002302	0.152447	0.000781	0.015354	0.008882	0.002445	0.024449
2-Feb-2031	0.024410	16.009400	25.380000	3.763990	55.475583	2.168530	0.024000	0.233726	0.055611	0.004546	0.002310	0.152974	0.000784	0.015407	0.008913	0.002453	0.024534
3-Feb-2031	0.024406	16.074500	25.482900	3.779340	55.701349	2.177310	0.024097	0.234672	0.055838	0.004565	0.002319	0.153603	0.000787	0.015469	0.008949	0.002463	0.024633
4-Feb-2031	0.024405	16.208200	25.695000	3.810780	56.164667	2.195430	0.024298	0.236625	0.056302	0.004603	0.002338	0.154880	0.000794	0.015598	0.009024	0.002484	0.024838
5-Feb-2031	0.024405	16.359400	25.934800	3.846330	56.688609	2.215920	0.024524	0.238834	0.056828	0.004646	0.002360	0.156324	0.000801	0.015744	0.009108	0.002507	0.025070
6-Feb-2031	0.024403	16.535600	26.214000	3.887730	57.299065	2.239780	0.024788	0.241405	0.057439	0.004696	0.002386	0.158006	0.000810	0.015913	0.009206	0.002534	0.025340

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Feb-2031	0.024403	16.738100	26.535000	3.935340	58.000766	2.267210	0.025092	0.244362	0.058143	0.004753	0.002415	0.159941	0.000820	0.016108	0.009319	0.002565	0.025650
8-Feb-2031	0.024402	16.975400	26.911400	3.991140	58.823088	2.299370	0.025448	0.247827	0.058967	0.004821	0.002449	0.162209	0.000831	0.016336	0.009451	0.002601	0.026014
9-Feb-2031	0.024402	17.254700	27.354100	4.056810	59.790929	2.337200	0.025867	0.251905	0.059937	0.004900	0.002489	0.164877	0.000845	0.016605	0.009606	0.002644	0.026442
10-Feb-2031	0.024401	17.534400	27.797600	4.122570	60.760140	2.375090	0.026286	0.255989	0.060909	0.004979	0.002530	0.167550	0.000859	0.016874	0.009762	0.002687	0.026871
11-Feb-2031	0.024401	17.791200	28.204700	4.182950	61.650015	2.409870	0.026671	0.259738	0.061801	0.005052	0.002567	0.170004	0.000871	0.017122	0.009905	0.002726	0.027264
12-Feb-2031	0.024400	17.705200	28.068400	4.162720	61.351965	2.398230	0.026542	0.258483	0.061502	0.005028	0.002554	0.169181	0.000867	0.017039	0.009857	0.002713	0.027133
13-Feb-2031	0.024400	17.980800	28.505200	4.227510	62.306944	2.435550	0.026955	0.262505	0.062459	0.005106	0.002594	0.171814	0.000880	0.017304	0.010011	0.002755	0.027555
14-Feb-2031	0.024400	18.264300	28.954700	4.294160	63.289308	2.473950	0.027380	0.266644	0.063444	0.005187	0.002635	0.174523	0.000894	0.017577	0.010168	0.002799	0.027989
15-Feb-2031	0.024399	18.551800	29.410500	4.361770	64.285613	2.512900	0.027811	0.270842	0.064443	0.005268	0.002676	0.177271	0.000908	0.017853	0.010329	0.002843	0.028430
16-Feb-2031	0.024399	18.839200	29.866000	4.429330	65.281463	2.551820	0.028242	0.275037	0.065441	0.005350	0.002718	0.180017	0.000922	0.018130	0.010489	0.002887	0.028870
17-Feb-2031	0.024399	19.125700	30.320300	4.496700	66.274284	2.590630	0.028671	0.279220	0.066436	0.005431	0.002759	0.182755	0.000937	0.018406	0.010648	0.002931	0.029309
18-Feb-2031	0.024399	19.411200	30.772900	4.563820	67.263577	2.629310	0.029099	0.283388	0.067428	0.005512	0.002800	0.185483	0.000950	0.018680	0.010807	0.002975	0.029747
19-Feb-2031	0.024399	19.696200	31.224600	4.630820	68.251128	2.667900	0.029526	0.287548	0.068418	0.005593	0.002842	0.188206	0.000964	0.018955	0.010966	0.003018	0.030184
20-Feb-2031	0.024399	19.980200	31.674800	4.697590	69.235235	2.706370	0.029952	0.291694	0.069404	0.005674	0.002883	0.190920	0.000978	0.019228	0.011124	0.003062	0.030619
21-Feb-2031	0.024399	20.263500	32.124000	4.764210	70.216976	2.744750	0.030377	0.295831	0.070389	0.005754	0.002923	0.193627	0.000992	0.019501	0.011282	0.003105	0.031053
22-Feb-2031	0.024401	20.546800	32.573100	4.830820	71.198676	2.783120	0.030802	0.299967	0.071373	0.005835	0.002964	0.196334	0.001006	0.019773	0.011439	0.003149	0.031487
23-Feb-2031	0.024401	20.830300	33.022600	4.897470	72.181041	2.821520	0.031227	0.304106	0.072358	0.005915	0.003005	0.199043	0.001020	0.020046	0.011597	0.003192	0.031922
24-Feb-2031	0.024401	21.114400	33.472900	4.964260	73.165479	2.860000	0.031653	0.308253	0.073344	0.005996	0.003046	0.201758	0.001034	0.020320	0.011755	0.003236	0.032357
25-Feb-2031	0.024401	21.397500	33.921800	5.030840	74.146557	2.898360	0.032077	0.312387	0.074328	0.006077	0.003087	0.204464	0.001048	0.020592	0.011913	0.003279	0.032791
26-Feb-2031	0.024399	18.607500	29.498900	4.374770	64.478230	2.520480	0.027895	0.271657	0.064635	0.005284	0.002684	0.177794	0.000911	0.017907	0.010360	0.002852	0.028515
27-Feb-2031	0.024399	18.770200	29.756900	4.413030	65.042047	2.542520	0.028139	0.274033	0.065200	0.005330	0.002708	0.179349	0.000919	0.018063	0.010450	0.002876	0.028765
28-Feb-2031	0.024398	18.929000	30.008700	4.450370	65.592337	2.564030	0.028377	0.276352	0.065752	0.005375	0.002731	0.180867	0.000927	0.018216	0.010539	0.002901	0.029008
1-Mar-2031	0.024398	19.086900	30.259000	4.487490	66.139473	2.585420	0.028613	0.278657	0.066300	0.005420	0.002754	0.182375	0.000935	0.018368	0.010627	0.002925	0.029250
2-Mar-2031	0.024398	19.247600	30.513700	4.525270	66.696319	2.607190	0.028854	0.281003	0.066858	0.005466	0.002777	0.183911	0.000942	0.018523	0.010716	0.002950	0.029496
3-Mar-2031	0.024398	19.412300	30.774800	4.563980	67.266983	2.629490	0.029101	0.283407	0.067430	0.005513	0.002801	0.185484	0.000951	0.018681	0.010808	0.002975	0.029749
4-Mar-2031	0.024398	17.925200	28.417000	4.214450	62.114330	2.428010	0.026872	0.261692	0.062266	0.005090	0.002586	0.171284	0.000878	0.017250	0.009980	0.002747	0.027470
5-Mar-2031	0.024398	18.064500	28.637800	4.247190	62.596985	2.446870	0.027080	0.263726	0.062750	0.005130	0.002606	0.172615	0.000885	0.017384	0.010057	0.002768	0.027683
6-Mar-2031	0.024398	18.208500	28.866200	4.281060	63.096030	2.466390	0.027296	0.265829	0.063251	0.005171	0.002627	0.173992	0.000892	0.017523	0.010137	0.002790	0.027904
7-Mar-2031	0.024398	18.357300	29.102100	4.316060	63.611713	2.486550	0.027519	0.268002	0.063768	0.005213	0.002648	0.175414	0.000899	0.017666	0.010220	0.002813	0.028132
8-Mar-2031	0.024398	18.510800	29.345400	4.352130	64.143539	2.507330	0.027749	0.270242	0.064301	0.005257	0.002671	0.176880	0.000906	0.017814	0.010306	0.002837	0.028367
9-Mar-2031	0.024398	18.668700	29.595700	4.389260	64.690717	2.528720	0.027986	0.272548	0.064849	0.005302	0.002693	0.178389	0.000914	0.017966	0.010394	0.002861	0.028609
10-Mar-2031	0.024398	18.836000	29.860900	4.428590	65.270426	2.551380	0.028237	0.274989	0.065430	0.005349	0.002718	0.179988	0.000922	0.018127	0.010487	0.002887	0.028865
11-Mar-2031	0.024398	19.010500	30.137600	4.469620	65.875114	2.575020	0.028499	0.277537	0.066036	0.005399	0.002743	0.181655	0.000931	0.018295	0.010584	0.002913	0.029133
12-Mar-2031	0.024398	19.190300	30.422600	4.511890	66.498142	2.599370	0.028768	0.280162	0.066661	0.005450	0.002769	0.183373	0.000940	0.018468	0.010684	0.002941	0.029408
13-Mar-2031	0.024398	19.375300	30.715900	4.555390	67.139220	2.624430	0.029045	0.282863	0.067304	0.005502	0.002795	0.185141	0.000949	0.018646	0.010787	0.002969	0.029692
14-Mar-2031	0.024398	19.565600	31.017500	4.600130	67.798639	2.650210	0.029331	0.285641	0.067965	0.005556	0.002823	0.186959	0.000958	0.018829	0.010893	0.002998	0.029983
15-Mar-2031	0.024398	19.761500	31.328100	4.646190	68.477476	2.676740	0.029624	0.288501	0.068645	0.005612	0.002851	0.188831	0.000968	0.019018	0.011002	0.003028	0.030284
16-Mar-2031	0.024398	19.963600	31.648600	4.693720	69.177848	2.704120	0.029927	0.291453	0.069347	0.005669	0.002880	0.190763	0.000978	0.019212	0.011115	0.003059	0.030593
17-Mar-2031	0.024398	20.171600	31.978300	4.742610	69.898553	2.732290	0.030239	0.294489	0.070070	0.005728	0.002910	0.192750	0.000988	0.019412	0.011230	0.003091	0.030912
18-Mar-2031	0.024398	20.385600	32.317500	4.792920	70.640088	2.761280	0.030560	0.297613	0.070813	0.005789	0.002941	0.194795	0.000998	0.019618	0.011349	0.003124	0.031240
19-Mar-2031	0.024397	20.605700	32.666400	4.844670	71.402784	2.791090	0.030890	0.300826	0.071578	0.005852	0.002973	0.196898	0.001009	0.019830	0.011472	0.003158	0.031577
20-Mar-2031	0.024397	20.832200	33.025500	4.897920	72.187638	2.821770	0.031229	0.304132	0.072364	0.005916	0.003006	0.199062	0.001020	0.020048	0.011598	0.003192	0.031924
21-Mar-2031	0.024397	21.065500	33.395400	4.952780	72.996102	2.853370	0.031579	0.307539	0.073175	0.005982	0.003039	0.201292	0.001031	0.020273	0.011728	0.003228	0.032282
22-Mar-2031	0.024397	21.305500	33.775900	5.009210	73.827760	2.885880	0.031939	0.311043	0.074009	0.006050	0.003074	0.203585	0.001043	0.020504	0.011862	0.003265	0.032650
23-Mar-2031	0.024397	21.552000	34.166700	5.067170	74.681950	2.919270	0.032309	0.314642	0.074865	0.006120	0.003109	0.205941	0.001055	0.020741	0.011999	0.003303	0.033028
24-Mar-2031	0.024397	21.805400	34.568400	5.126750	75.560040	2.953600	0.032688	0.318341	0.075745	0.006192	0.003146	0.208362	0.001068	0.020985	0.012140	0.003342	0.033416
25-Mar-2031	0.024397	22.065900	34.981300	5.187990	76.462695	2.988880	0.033079	0.322144	0.076650	0.006266	0.003184	0.210851	0.001080	0.021235	0.012285	0.003382	0.033815
26-Mar-2031	0.024397	22.333300	35.405200	5.250850	77.389250	3.025100	0.033480	0.326047	0.077579	0.006342	0.003222	0.213406	0.001094	0.021493	0.012434	0.003422	0.034225
27-Mar-2031	0.024397	22.608000	35.840600	5.315430	78.341117	3.062300	0.033891	0.330057	0.078533	0.006420	0.003262	0.216031	0.001107	0.021757	0.012587	0.003465	0.034646
28-Mar-2031	0.024397	22.889100	36.286300	5.381530	79.315223	3.100380	0.034313	0.334161	0.079509	0.006500	0.003302	0.218717	0.001121	0.022027	0.012743	0.003508	0.035077
29-Mar-2031	0.024397	23.176500	36.741900	5.449100	80.311114	3.139310	0.034744	0.338357	0.080508	0.006582	0.003344	0.221463	0.001135	0.022304	0.012903	0.003552	0.035517
30-Mar-2031	0.024397	23.471900	37.210300	5.518560	81.334764	3.179330	0.035187	0.342671	0.081534	0.006666	0.003386	0.224287	0.001149	0.022588	0.013068	0.003597	0.035970

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Mar-2031	0.024395	23.775900	37.692300	5.590040	82.388207	3.220510	0.035642	0.347109	0.082590	0.006752	0.003430	0.227192	0.001164	0.022881	0.013237	0.003644	0.036436
1-Apr-2031	0.024395	24.089000	38.188500	5.663640	83.473103	3.262910	0.036112	0.351679	0.083678	0.006841	0.003475	0.230183	0.001180	0.023182	0.013411	0.003692	0.036915
2-Apr-2031	0.024395	24.404000	38.687900	5.737710	84.564678	3.305580	0.036584	0.356278	0.084772	0.006930	0.003521	0.233193	0.001195	0.023485	0.013587	0.003740	0.037398
3-Apr-2031	0.024395	24.652900	39.082500	5.796220	85.427125	3.339290	0.036957	0.359912	0.085636	0.007001	0.003557	0.235571	0.001207	0.023725	0.013725	0.003778	0.037780
4-Apr-2031	0.024395	24.811000	39.333100	5.833390	85.974967	3.360710	0.037194	0.362219	0.086186	0.007046	0.003580	0.237082	0.001215	0.023877	0.013813	0.003802	0.038022
5-Apr-2031	0.024395	24.922900	39.510500	5.859700	86.362726	3.375860	0.037362	0.363853	0.086574	0.007078	0.003596	0.238151	0.001220	0.023985	0.013876	0.003819	0.038193
6-Apr-2031	0.024395	25.006200	39.642700	5.879300	86.651439	3.387160	0.037487	0.365070	0.086864	0.007101	0.003608	0.238948	0.001224	0.024065	0.013922	0.003832	0.038321
7-Apr-2031	0.024395	25.071200	39.745600	5.894570	86.876626	3.395950	0.037584	0.366018	0.087089	0.007120	0.003617	0.239568	0.001228	0.024127	0.013958	0.003842	0.038421
8-Apr-2031	0.024395	25.124000	39.829400	5.906990	87.059613	3.403110	0.037663	0.366789	0.087273	0.007135	0.003625	0.240073	0.001230	0.024178	0.013988	0.003850	0.038502
9-Apr-2031	0.024395	25.168300	39.899500	5.917400	87.213098	3.409100	0.037730	0.367436	0.087427	0.007147	0.003631	0.240496	0.001232	0.024221	0.014012	0.003857	0.038569
10-Apr-2031	0.024395	25.205800	39.959000	5.926210	87.343015	3.414180	0.037786	0.367983	0.087557	0.007158	0.003636	0.240854	0.001234	0.024257	0.014033	0.003863	0.038627
11-Apr-2031	0.024395	25.237800	40.009800	5.933740	87.453928	3.418520	0.037834	0.368451	0.087668	0.007167	0.003641	0.241160	0.001236	0.024288	0.014051	0.003868	0.038676
12-Apr-2031	0.024395	25.265600	40.053800	5.940270	87.550235	3.422280	0.037875	0.368856	0.087765	0.007175	0.003645	0.241426	0.001237	0.024314	0.014066	0.003872	0.038718
13-Apr-2031	0.024394	25.290200	40.092800	5.946050	87.635463	3.425610	0.037912	0.369215	0.087850	0.007182	0.003649	0.241661	0.001238	0.024338	0.014080	0.003876	0.038756
14-Apr-2031	0.024394	25.312300	40.127800	5.951250	87.712061	3.428610	0.037946	0.369538	0.087927	0.007188	0.003652	0.241872	0.001239	0.024359	0.014092	0.003879	0.038790
15-Apr-2031	0.024394	25.332600	40.160000	5.956030	87.782434	3.431360	0.037976	0.369835	0.087997	0.007194	0.003655	0.242066	0.001240	0.024379	0.014104	0.003882	0.038821
16-Apr-2031	0.024394	25.351700	40.190300	5.960520	87.848616	3.433950	0.038005	0.370113	0.088064	0.007199	0.003658	0.242249	0.001241	0.024397	0.014114	0.003885	0.038850
17-Apr-2031	0.024394	25.369900	40.219300	5.964810	87.911728	3.436420	0.038032	0.370380	0.088127	0.007205	0.003660	0.242423	0.001242	0.024415	0.014124	0.003888	0.038878
18-Apr-2031	0.024394	25.387600	40.247200	5.968960	87.973014	3.438810	0.038058	0.370638	0.088189	0.007210	0.003663	0.242592	0.001243	0.024432	0.014134	0.003891	0.038905
19-Apr-2031	0.024394	25.404600	40.274300	5.972970	88.031977	3.441120	0.038084	0.370886	0.088248	0.007214	0.003665	0.242755	0.001244	0.024448	0.014144	0.003893	0.038932
20-Apr-2031	0.024394	25.420800	40.299900	5.976770	88.088076	3.443310	0.038108	0.371123	0.088304	0.007219	0.003668	0.242909	0.001245	0.024464	0.014153	0.003896	0.038956
21-Apr-2031	0.024394	25.436000	40.324000	5.980340	88.140732	3.445370	0.038131	0.371344	0.088357	0.007223	0.003670	0.243054	0.001245	0.024479	0.014161	0.003898	0.038980
22-Apr-2031	0.024394	25.450100	40.346300	5.983660	88.189612	3.447280	0.038152	0.371550	0.088406	0.007227	0.003672	0.243189	0.001246	0.024492	0.014169	0.003900	0.039001
23-Apr-2031	0.024394	25.463200	40.367000	5.986730	88.234965	3.449050	0.038172	0.371741	0.088451	0.007231	0.003674	0.243314	0.001247	0.024505	0.014176	0.003902	0.039021
24-Apr-2031	0.024391	23.333500	36.990900	5.486020	80.855180	3.160590	0.034979	0.340650	0.081053	0.006626	0.003366	0.222963	0.001143	0.022455	0.012991	0.003576	0.035758
25-Apr-2031	0.024391	23.344600	37.008500	5.488630	80.893645	3.162090	0.034996	0.340813	0.081092	0.006629	0.003368	0.223070	0.001143	0.022466	0.012997	0.003577	0.035775
26-Apr-2031	0.024391	23.355000	37.024900	5.491060	80.929620	3.163490	0.035011	0.340963	0.081128	0.006632	0.003369	0.223168	0.001144	0.022476	0.013003	0.003579	0.035791
27-Apr-2031	0.024391	23.364600	37.040200	5.493330	80.962939	3.164800	0.035026	0.341104	0.081161	0.006635	0.003371	0.223260	0.001144	0.022485	0.013008	0.003581	0.035805
28-Apr-2031	0.024391	23.373700	37.054600	5.495460	80.994433	3.166020	0.035039	0.341237	0.081193	0.006638	0.003372	0.223347	0.001145	0.022494	0.013013	0.003582	0.035819
29-Apr-2031	0.024391	23.382200	37.068100	5.497470	81.023935	3.167180	0.035052	0.341361	0.081222	0.006640	0.003373	0.223429	0.001145	0.022502	0.013018	0.003583	0.035832
30-Apr-2031	0.024410	23.390200	37.080800	5.499350	81.051653	3.168270	0.035064	0.341478	0.081250	0.006642	0.003375	0.223505	0.001145	0.022510	0.013022	0.003584	0.035845
1-May-2031	0.024618	23.395400	37.089000	5.500560	81.069620	3.168970	0.035072	0.341554	0.081268	0.006644	0.003375	0.223555	0.001146	0.022515	0.013025	0.003585	0.035853
2-May-2031	0.026067	25.440800	40.331500	5.981460	88.157330	3.446010	0.038138	0.371414	0.088373	0.007225	0.003670	0.243100	0.001246	0.024483	0.014164	0.003899	0.038987
3-May-2031	0.031842	25.228200	39.994500	5.931480	87.420650	3.417210	0.037819	0.368310	0.087635	0.007164	0.003640	0.241068	0.001235	0.024278	0.014046	0.003866	0.038661
4-May-2031	0.039663	24.767000	39.263500	5.823060	85.822560	3.354760	0.037128	0.361578	0.086033	0.007033	0.003573	0.236662	0.001213	0.023835	0.013789	0.003795	0.037954
5-May-2031	0.044989	24.218700	38.394100	5.694130	83.922521	3.280480	0.036306	0.353572	0.084128	0.006878	0.003494	0.231422	0.001186	0.023307	0.013484	0.003711	0.037114
6-May-2031	0.051690	23.624900	37.452900	5.554530	81.864930	3.200050	0.035416	0.344904	0.082065	0.006709	0.003408	0.225748	0.001157	0.022736	0.013153	0.003620	0.036204
7-May-2031	0.058260	23.048900	36.539800	5.419100	79.868957	3.122040	0.034553	0.336495	0.080065	0.006545	0.003325	0.220244	0.001129	0.022181	0.012832	0.003532	0.035322
8-May-2031	0.063143	22.601000	35.829600	5.313790	78.316884	3.061360	0.033881	0.329956	0.078509	0.006418	0.003261	0.215963	0.001107	0.021750	0.012583	0.003464	0.034635
9-May-2031	0.067895	22.196700	35.188600	5.218720	76.915849	3.006600	0.033275	0.324053	0.077104	0.006303	0.003202	0.212099	0.001087	0.021361	0.012358	0.003402	0.034015
10-May-2031	0.071575	21.804800	34.567400	5.126580	75.557842	2.953520	0.032687	0.318332	0.075743	0.006192	0.003146	0.208355	0.001068	0.020984	0.012140	0.003341	0.033415
11-May-2031	0.080683	21.615500	34.267400	5.082090	74.901950	2.927890	0.032404	0.315570	0.075085	0.006138	0.003119	0.206546	0.001058	0.020802	0.012034	0.003312	0.033125
12-May-2031	0.085393	21.240900	33.673500	4.994000	73.603819	2.877140	0.031842	0.310100	0.073784	0.006032	0.003064	0.202966	0.001040	0.020441	0.011826	0.003255	0.032551
13-May-2031	0.092562	20.840700	33.039000	4.899900	72.217016	2.822930	0.031242	0.304257	0.072393	0.005918	0.003007	0.199141	0.001020	0.020056	0.011603	0.003194	0.031937
14-May-2031	0.101553	20.474200	32.458100	4.813740	70.947059	2.773300	0.030693	0.298908	0.071121	0.005814	0.002954	0.195639	0.001003	0.019703	0.011399	0.003138	0.031376
15-May-2031	0.108946	20.186400	32.001800	4.746070	69.949757	2.734310	0.030261	0.294706	0.070121	0.005733	0.002912	0.192889	0.000988	0.019426	0.011239	0.003093	0.030935
16-May-2031	0.112809	19.542700	30.981300	4.594710	67.719138	2.647120	0.029296	0.285308	0.067884	0.005550	0.002819	0.186737	0.000957	0.018807	0.010880	0.002995	0.029948
17-May-2031	0.125786	17.559800	27.837900	4.128500	60.847984	2.378540	0.026324	0.256360	0.060996	0.004987	0.002533	0.167788	0.000860	0.016899	0.009776	0.002691	0.026910
18-May-2031	0.140969	17.428500	27.629800	4.097630	60.393005	2.360770	0.026127	0.254444	0.060540	0.004949	0.002514	0.166534	0.000853	0.016772	0.009703	0.002671	0.026709
19-May-2031	0.143125	16.885900	26.769600	3.970010	58.512593	2.287280	0.025314	0.246523	0.058655	0.004795	0.002436	0.161344	0.000827	0.016250	0.009401	0.002588	0.025877
20-May-2031	0.143889	16.650600	26.396500	3.914690	57.697242	2.255390	0.024961	0.243087	0.057838	0.004728	0.002402	0.159096	0.000815	0.016024	0.009270	0.002552	0.025516
21-May-2031	0.143544	16.362300	25.939500	3.846910	56.698238	2.216350	0.024529	0.238878	0.056836	0.004647	0.002361	0.156341	0.000801	0.015746	0.009110	0.002507	0.025075

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
22-May-2031	0.147514	15.983100	25.338400	3.757770	55.384298	2.164980	0.023960	0.233342	0.055519	0.004539	0.002306	0.152718	0.000783	0.015381	0.008898	0.002449	0.024493
23-May-2031	0.152989	15.655700	24.819400	3.680810	54.249858	2.120630	0.023470	0.228562	0.054383	0.004446	0.002259	0.149591	0.000767	0.015066	0.008716	0.002399	0.023992
24-May-2031	0.156390	15.333000	24.307700	3.604950	53.131685	2.076900	0.022986	0.223849	0.053262	0.004354	0.002212	0.146509	0.000751	0.014756	0.008536	0.002350	0.023497
25-May-2031	0.162083	14.840600	23.527000	3.489210	51.425545	2.010190	0.022247	0.216659	0.051553	0.004214	0.002141	0.141806	0.000727	0.014282	0.008262	0.002274	0.022742
26-May-2031	0.165240	14.561700	23.084900	3.423650	50.459156	1.972410	0.021829	0.212588	0.050584	0.004135	0.002101	0.139142	0.000713	0.014014	0.008107	0.002232	0.022315
27-May-2031	0.170374	14.302800	22.674300	3.362790	49.562061	1.937330	0.021441	0.208806	0.049685	0.004062	0.002064	0.136669	0.000700	0.013765	0.007963	0.002192	0.021918
28-May-2031	0.175687	14.009200	22.208800	3.293770	48.544717	1.897550	0.021001	0.204519	0.048666	0.003978	0.002021	0.133865	0.000686	0.013482	0.007799	0.002147	0.021468
29-May-2031	0.183917	13.863100	21.977100	3.259430	48.038493	1.877750	0.020782	0.202385	0.048158	0.003937	0.002000	0.132469	0.000679	0.013341	0.007718	0.002124	0.021244
30-May-2031	0.197305	13.798700	21.874900	3.244360	47.815628	1.868990	0.020685	0.201441	0.047937	0.003918	0.001991	0.131860	0.000676	0.013280	0.007682	0.002115	0.021146
31-May-2031	0.210232	13.662600	21.658700	3.212470	47.344464	1.850480	0.020480	0.199448	0.047466	0.003880	0.001971	0.130573	0.000669	0.013149	0.007606	0.002094	0.020937
1-Jun-2031	0.234444	13.567800	21.508000	3.190310	47.016493	1.837570	0.020338	0.198059	0.047139	0.003853	0.001958	0.129682	0.000664	0.013058	0.007554	0.002079	0.020791
2-Jun-2031	0.268239	13.418600	21.270900	3.155390	46.500140	1.817250	0.020113	0.195870	0.046627	0.003811	0.001937	0.128271	0.000657	0.012915	0.007470	0.002056	0.020563
3-Jun-2031	0.300484	13.292300	21.070200	3.125840	46.063082	1.800030	0.019923	0.194016	0.046198	0.003775	0.001919	0.127072	0.000651	0.012794	0.007400	0.002037	0.020369
4-Jun-2031	0.348283	13.114200	20.785900	3.084500	45.448128	1.775530	0.019653	0.191383	0.045607	0.003724	0.001894	0.125415	0.000642	0.012625	0.007301	0.002010	0.020097
5-Jun-2031	0.480264	12.988200	20.583000	3.055790	45.015279	1.757840	0.019459	0.189490	0.045216	0.003687	0.001878	0.124286	0.000636	0.012508	0.007230	0.001990	0.019905
6-Jun-2031	0.529035	12.760000	20.213900	3.004260	44.233263	1.725530	0.019107	0.186039	0.044528	0.003621	0.001849	0.122277	0.000624	0.012297	0.007102	0.001956	0.019558
7-Jun-2031	0.544058	12.596800	19.945700	2.968640	43.679069	1.701580	0.018848	0.183505	0.044096	0.003572	0.001830	0.120936	0.000616	0.012152	0.007009	0.001931	0.019311
8-Jun-2031	0.564804	12.394100	19.613900	2.923980	42.989017	1.672040	0.018528	0.180369	0.043537	0.003512	0.001806	0.119247	0.000605	0.011970	0.006895	0.001900	0.019004
9-Jun-2031	0.582677	12.217900	19.325200	2.885220	42.389432	1.646300	0.018250	0.177636	0.043051	0.003460	0.001786	0.117784	0.000596	0.011812	0.006796	0.001874	0.018737
10-Jun-2031	0.600070	12.031300	19.017900	2.844610	41.756260	1.618780	0.017953	0.174727	0.042562	0.003404	0.001765	0.116266	0.000586	0.011646	0.006690	0.001846	0.018455
11-Jun-2031	0.616341	11.816200	18.660400	2.798920	41.031004	1.586290	0.017605	0.171301	0.042048	0.003339	0.001743	0.114590	0.000575	0.011460	0.006568	0.001813	0.018130
12-Jun-2031	0.652150	11.575300	18.257600	2.748320	40.221106	1.549470	0.017212	0.167435	0.041504	0.003265	0.001720	0.112758	0.000562	0.011254	0.006430	0.001777	0.017768
13-Jun-2031	0.714580	11.401600	17.965700	2.712220	39.638717	1.522560	0.016925	0.164600	0.041219	0.003212	0.001704	0.111475	0.000553	0.011108	0.006331	0.001751	0.017508
14-Jun-2031	0.811972	11.181500	17.594700	2.666740	38.901841	1.488210	0.016560	0.160989	0.040859	0.003144	0.001688	0.109964	0.000541	0.010923	0.006205	0.001718	0.017176
15-Jun-2031	0.932606	11.016000	17.316400	2.633740	38.352693	1.462490	0.016285	0.158278	0.040560	0.003093	0.001676	0.108942	0.000532	0.010792	0.006111	0.001693	0.016927
16-Jun-2031	1.098711	10.902100	17.122100	2.613320	37.984195	1.444230	0.016092	0.156361	0.040357	0.003057	0.001667	0.108240	0.000525	0.010709	0.006045	0.001676	0.016756
17-Jun-2031	1.235788	10.781400	16.908600	2.590090	37.587146	1.423780	0.015877	0.154223	0.040147	0.003018	0.001658	0.107480	0.000519	0.010616	0.005974	0.001658	0.016579
18-Jun-2031	1.346275	10.667500	16.715600	2.563950	37.195094	1.405340	0.015684	0.152290	0.039914	0.002983	0.001648	0.106588	0.000512	0.010508	0.005910	0.001640	0.016403
19-Jun-2031	1.511598	10.567900	16.546400	2.543570	36.862468	1.389600	0.015517	0.150642	0.039714	0.002952	0.001639	0.105916	0.000507	0.010426	0.005853	0.001625	0.016254
20-Jun-2031	1.670447	10.441800	16.332900	2.517700	36.441063	1.369750	0.015307	0.148567	0.039385	0.002914	0.001625	0.104835	0.000500	0.010322	0.005781	0.001606	0.016065
21-Jun-2031	1.798366	10.309100	16.100700	2.492220	36.004785	1.347450	0.015074	0.146244	0.039176	0.002873	0.001615	0.104112	0.000492	0.010221	0.005704	0.001587	0.015866
22-Jun-2031	1.943424	10.154300	15.833600	2.461700	35.492568	1.322130	0.014809	0.143609	0.038930	0.002825	0.001603	0.103164	0.000484	0.010099	0.005615	0.001563	0.015634
23-Jun-2031	2.074262	10.002600	15.568300	2.432410	34.993157	1.296750	0.014544	0.140970	0.038734	0.002779	0.001594	0.102355	0.000475	0.009984	0.005527	0.001541	0.015407
24-Jun-2031	2.182478	9.846990	15.292000	2.403350	34.484929	1.269870	0.014266	0.138177	0.038585	0.002732	0.001585	0.101638	0.000466	0.009872	0.005437	0.001517	0.015172
25-Jun-2031	2.285832	9.723580	15.075000	2.379740	34.079549	1.249000	0.014048	0.136006	0.038327	0.002695	0.001578	0.101012	0.000459	0.009780	0.005366	0.001499	0.014986
26-Jun-2031	2.391050	9.593500	14.847800	2.354650	33.651418	1.227220	0.013821	0.133745	0.038111	0.002655	0.001569	0.100301	0.000451	0.009681	0.005291	0.001479	0.014791
27-Jun-2031	2.503443	9.468110	14.635100	2.328880	33.232199	1.207500	0.013613	0.131691	0.037855	0.002617	0.001558	0.099445	0.000444	0.009578	0.005219	0.001460	0.014603
28-Jun-2031	2.633366	9.315300	14.372600	2.298130	32.724003	1.182890	0.013355	0.129139	0.037587	0.002572	0.001546	0.098528	0.000436	0.009456	0.005132	0.001437	0.014374
29-Jun-2031	2.785496	9.172740	14.123400	2.270420	32.253921	1.159130	0.013108	0.126676	0.037380	0.002530	0.001536	0.097787	0.000428	0.009348	0.005050	0.001416	0.014160
30-Jun-2031	2.972050	9.077400	13.956500	2.252050	31.940210	1.143120	0.012941	0.125014	0.037241	0.002501	0.001530	0.097284	0.000422	0.009276	0.004995	0.001402	0.014016
1-Jul-2031	4.341823	7.113020	10.592700	1.851020	25.383711	0.827938	0.009610	0.092085	0.033525	0.001909	0.001372	0.084805	0.000314	0.007719	0.003875	0.001107	0.011067
2-Jul-2031	6.546647	7.124890	10.558700	1.861840	25.457907	0.820932	0.009550	0.091388	0.034021	0.001930	0.001390	0.086884	0.000312	0.007810	0.003882	0.001107	0.011067
3-Jul-2031	7.331863	7.183590	10.643100	1.869810	25.637302	0.829433	0.009643	0.092310	0.034284	0.001972	0.001392	0.088510	0.000315	0.007893	0.003922	0.001115	0.011147
4-Jul-2031	8.254834	7.294080	10.850000	1.887840	25.987443	0.850042	0.009848	0.094359	0.034356	0.001999	0.001394	0.088685	0.000322	0.007963	0.003987	0.001131	0.011315
5-Jul-2031	8.736427	7.277190	10.803000	1.887080	25.942139	0.845032	0.009804	0.093907	0.034396	0.002010	0.001397	0.089217	0.000320	0.007970	0.003978	0.001128	0.011280
6-Jul-2031	8.545817	7.320770	10.885100	1.895120	26.084067	0.852970	0.009882	0.094689	0.034391	0.002018	0.001399	0.089066	0.000323	0.007994	0.004002	0.001135	0.011346
7-Jul-2031	8.596604	7.346630	10.936300	1.900300	26.169971	0.857879	0.009930	0.095166	0.034346	0.002020	0.001400	0.088881	0.000324	0.008002	0.004016	0.001139	0.011385
8-Jul-2031	9.061677	7.415400	11.064100	1.911800	26.389046	0.870580	0.010056	0.096424	0.034376	0.002039	0.001401	0.088952	0.000329	0.008045	0.004056	0.001149	0.011489
9-Jul-2031	10.121117	7.541940	11.277600	1.931670	26.786841	0.892140	0.010279	0.098652	0.034671	0.002099	0.001406	0.090405	0.000336	0.008165	0.004135	0.001167	0.011672
10-Jul-2031	11.260002	7.836300	11.815200	1.976700	27.707292	0.946102	0.010818	0.104045	0.035080	0.002188	0.001412	0.091241	0.000354	0.008385	0.004314	0.001212	0.012117
11-Jul-2031	12.169424	7.852780	11.846700	1.979520	27.760055	0.949240	0.010849	0.104354	0.035074	0.002192	0.001412	0.091213	0.000355	0.008393	0.004323	0.001214	0.012142
12-Jul-2031	12.363394	7.591230	11.375500	1.940470	26.946157	0.901818	0.010372	0.099586	0.034596	0.002105	0.001406	0.090110	0.000339	0.008183	0.004162	0.001175	0.011747

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Jul-2031	12.108510	7.717830	11.607000	1.959980	27.342619	0.925060	0.010605	0.101909	0.034764	0.002144	0.001409	0.090467	0.000347	0.008276	0.004239	0.001194	0.011939
14-Jul-2031	13.390792	7.912080	11.962000	1.989630	27.949760	0.960697	0.010960	0.105466	0.035032	0.002203	0.001413	0.091002	0.000359	0.008420	0.004357	0.001223	0.012233
15-Jul-2031	14.338894	8.660530	13.329700	2.104030	30.289739	1.098000	0.012330	0.119181	0.036081	0.002429	0.001428	0.093070	0.000404	0.008977	0.004811	0.001337	0.013366
16-Jul-2031	14.926818	8.270710	12.617600	2.045010	29.073314	1.026480	0.011617	0.112038	0.035504	0.002312	0.001420	0.092005	0.000381	0.008684	0.004574	0.001277	0.012775
17-Jul-2031	14.983984	8.361240	12.780900	2.059130	29.357514	1.042860	0.011781	0.113672	0.035634	0.002342	0.001422	0.092389	0.000386	0.008753	0.004629	0.001291	0.012910
18-Jul-2031	14.122616	7.986980	12.100000	2.003210	28.192708	0.974458	0.011097	0.106828	0.034998	0.002227	0.001414	0.091253	0.000363	0.008463	0.004400	0.001234	0.012341
19-Jul-2031	15.229761	8.161830	12.419500	2.030180	28.740371	1.006500	0.011417	0.110025	0.035228	0.002280	0.001418	0.091743	0.000374	0.008591	0.004505	0.001261	0.012605
20-Jul-2031	14.754449	7.965760	12.062600	2.001750	28.133709	0.970571	0.011058	0.106426	0.034854	0.002221	0.001414	0.091177	0.000362	0.008435	0.004385	0.001231	0.012306
21-Jul-2031	14.474629	8.227410	12.540000	2.041630	28.951275	1.018500	0.011536	0.111214	0.035233	0.002301	0.001419	0.091940	0.000378	0.008632	0.004543	0.001270	0.012702
22-Jul-2031	15.236592	8.224160	12.534300	2.041390	28.942172	1.017920	0.011530	0.111157	0.035211	0.002300	0.001419	0.091931	0.000378	0.008628	0.004541	0.001270	0.012696
23-Jul-2031	16.096747	8.182370	12.458800	2.036900	28.819332	1.010190	0.011453	0.110373	0.035047	0.002288	0.001418	0.091830	0.000375	0.008585	0.004514	0.001263	0.012630
24-Jul-2031	16.112231	8.179840	12.453100	2.037030	28.813550	1.009610	0.011447	0.110315	0.035019	0.002289	0.001419	0.091913	0.000375	0.008582	0.004512	0.001262	0.012623
25-Jul-2031	16.713163	8.180250	12.454200	2.037540	28.816674	1.009690	0.011448	0.110319	0.034991	0.002289	0.001419	0.091916	0.000375	0.008580	0.004511	0.001262	0.012623
26-Jul-2031	17.919657	8.353610	12.771600	2.064090	29.358887	1.041540	0.011766	0.113497	0.035224	0.002341	0.001422	0.092361	0.000386	0.008708	0.004616	0.001289	0.012886
27-Jul-2031	17.540418	8.332830	12.732700	2.062020	29.298475	1.037590	0.011726	0.113100	0.035140	0.002337	0.001422	0.092406	0.000385	0.008688	0.004603	0.001285	0.012851
28-Jul-2031	15.682245	8.425030	12.903000	2.075840	29.585609	1.054710	0.011896	0.114805	0.035259	0.002363	0.001423	0.092554	0.000390	0.008755	0.004659	0.001299	0.012993
29-Jul-2031	15.270545	8.517060	13.071100	2.090290	29.874913	1.071550	0.012065	0.116488	0.035367	0.002391	0.001425	0.092830	0.000396	0.008821	0.004714	0.001313	0.013131
30-Jul-2031	15.562694	8.562550	13.155400	2.097420	30.017863	1.080000	0.012149	0.117328	0.035411	0.002404	0.001426	0.092891	0.000399	0.008852	0.004741	0.001320	0.013200
31-Jul-2031	15.171359	8.512670	13.065100	2.091390	29.868481	1.070800	0.012056	0.116393	0.035242	0.002389	0.001425	0.092755	0.000396	0.008805	0.004709	0.001312	0.013121
1-Aug-2031	14.246182	8.484840	13.015400	2.087470	29.782847	1.065800	0.012006	0.115889	0.035169	0.002380	0.001425	0.092630	0.000394	0.008781	0.004692	0.001308	0.013079
2-Aug-2031	13.190420	8.753640	13.507100	2.128650	30.623620	1.115190	0.012498	0.120817	0.035528	0.002462	0.001430	0.093376	0.000411	0.008979	0.004854	0.001349	0.013486
3-Aug-2031	12.262490	8.651320	13.320500	2.114020	30.307880	1.096380	0.012310	0.118928	0.035322	0.002431	0.001428	0.093111	0.000404	0.008897	0.004791	0.001333	0.013329
4-Aug-2031	11.496669	8.635390	13.290900	2.112690	30.262626	1.093270	0.012278	0.118611	0.035256	0.002427	0.001428	0.093113	0.000403	0.008881	0.004780	0.001330	0.013303
5-Aug-2031	12.536020	8.676640	13.367500	2.121030	30.399972	1.100700	0.012351	0.119325	0.035209	0.002439	0.001429	0.093186	0.000406	0.008900	0.004803	0.001336	0.013361
6-Aug-2031	13.114473	8.768090	13.532700	2.135370	30.687374	1.117230	0.012516	0.120983	0.035344	0.002468	0.001432	0.093543	0.000411	0.008970	0.004858	0.001350	0.013500
7-Aug-2031	12.655180	8.907090	13.786800	2.156710	31.122336	1.142720	0.012770	0.123526	0.035532	0.002510	0.001434	0.093935	0.000420	0.009073	0.004942	0.001371	0.013710
8-Aug-2031	12.766096	9.013590	13.981400	2.174130	31.460002	1.162140	0.012964	0.125459	0.035642	0.002543	0.001437	0.094261	0.000426	0.009147	0.005006	0.001387	0.013871
9-Aug-2031	12.216833	8.924010	13.820100	2.161180	31.182992	1.145830	0.012799	0.123805	0.035437	0.002513	0.001435	0.093880	0.000421	0.009073	0.004950	0.001373	0.013734
10-Aug-2031	11.588749	8.936020	13.842300	2.164170	31.225294	1.147900	0.012819	0.124001	0.035401	0.002516	0.001436	0.093898	0.000422	0.009076	0.004956	0.001375	0.013750
11-Aug-2031	10.623639	8.913170	13.800300	2.161940	31.159054	1.143540	0.012775	0.123552	0.035312	0.002510	0.001436	0.093880	0.000420	0.009053	0.004941	0.001371	0.013714
12-Aug-2031	10.658096	8.949180	13.866800	2.168880	31.277550	1.150020	0.012838	0.124180	0.035293	0.002520	0.001437	0.093956	0.000423	0.009072	0.004961	0.001377	0.013766
13-Aug-2031	10.828012	9.272890	14.457500	2.218490	32.290148	1.209270	0.013429	0.130095	0.035748	0.002619	0.001444	0.094894	0.000442	0.009314	0.005157	0.001426	0.014256
14-Aug-2031	10.859886	9.000330	13.959500	2.178590	31.445258	1.159100	0.012927	0.125067	0.035278	0.002538	0.001439	0.094191	0.000426	0.009103	0.004990	0.001384	0.013840
15-Aug-2031	10.031894	9.073250	14.091800	2.190460	31.676220	1.172290	0.013059	0.126379	0.035358	0.002561	0.001440	0.094463	0.000430	0.009155	0.005034	0.001395	0.013949
16-Aug-2031	10.074051	9.254520	14.419800	2.220260	32.251567	1.205020	0.013384	0.129626	0.035540	0.002621	0.001445	0.095237	0.000441	0.009286	0.005142	0.001422	0.014218
17-Aug-2031	10.996204	9.238690	14.388100	2.219580	32.209239	1.201690	0.013350	0.129275	0.035444	0.002621	0.001445	0.095444	0.000440	0.009270	0.005131	0.001419	0.014187
18-Aug-2031	10.542237	9.175640	14.277700	2.209400	32.009882	1.190560	0.013238	0.128163	0.035349	0.002594	0.001444	0.094889	0.000436	0.009218	0.005092	0.001410	0.014098
19-Aug-2031	10.381237	9.179020	14.285100	2.211040	32.025076	1.191130	0.013243	0.128203	0.035293	0.002594	0.001444	0.094839	0.000437	0.009214	0.005093	0.001410	0.014102
20-Aug-2031	9.929557	9.225150	14.368300	2.219670	32.175801	1.199310	0.013323	0.128998	0.035294	0.002610	0.001445	0.095074	0.000439	0.009242	0.005119	0.001417	0.014167
21-Aug-2031	9.914779	9.273260	14.457000	2.226970	32.325993	1.208180	0.013412	0.129887	0.035363	0.002623	0.001446	0.095129	0.000442	0.009277	0.005149	0.001424	0.014243
22-Aug-2031	8.541669	9.353650	14.603700	2.239980	32.580302	1.222840	0.013557	0.131338	0.035437	0.002648	0.001448	0.095394	0.000447	0.009334	0.005197	0.001436	0.014363
23-Aug-2031	8.180725	9.380590	14.653700	2.245030	32.668367	1.227700	0.013605	0.131812	0.035430	0.002655	0.001449	0.095417	0.000449	0.009349	0.005212	0.001440	0.014403
24-Aug-2031	8.143786	9.514080	14.897200	2.266140	33.088622	1.252030	0.013847	0.134232	0.035594	0.002696	0.001452	0.095814	0.000457	0.009446	0.005292	0.001460	0.014604
25-Aug-2031	8.194030	9.994480	15.774200	2.339310	34.589495	1.340060	0.014725	0.143021	0.036287	0.002841	0.001462	0.097175	0.000486	0.009806	0.005584	0.001533	0.015332
26-Aug-2031	9.095678	9.940040	15.675000	2.331930	34.423168	1.329980	0.014624	0.142004	0.036177	0.002825	0.001461	0.097017	0.000483	0.009761	0.005550	0.001525	0.015249
27-Aug-2031	9.119094	9.895840	15.591300	2.328460	34.298511	1.321240	0.014534	0.141084	0.036001	0.002817	0.001461	0.097238	0.000480	0.009716	0.005520	0.001517	0.015173
28-Aug-2031	9.426903	9.597350	15.047900	2.283680	33.368777	1.266560	0.013987	0.135618	0.035498	0.002724	0.001455	0.096242	0.000462	0.009487	0.005337	0.001472	0.014721
29-Aug-2031	9.074453	9.610290	15.073200	2.285970	33.410519	1.269030	0.014012	0.135858	0.035486	0.002726	0.001456	0.096166	0.000463	0.009493	0.005345	0.001474	0.014742
30-Aug-2031	9.212709	9.722560	15.277900	2.303580	33.763375	1.289510	0.014216	0.137900	0.035635	0.002760	0.001458	0.096498	0.000470	0.009576	0.005412	0.001491	0.014911
31-Aug-2031	10.026201	10.010500	15.803300	2.348220	34.666188	1.342150	0.014740	0.143143	0.036016	0.002848	0.001464	0.097352	0.000487	0.009788	0.005586	0.001535	0.015346
1-Sep-2031	10.121526	10.284800	16.304000	2.390770	35.526336	1.392290	0.015240	0.148139	0.036382	0.002931	0.001470	0.098131	0.000504	0.009991	0.005752	0.001576	0.015760
2-Sep-2031	10.193259	9.917960	15.633800	2.336210	34.385659	1.324860	0.014566	0.141391	0.035799	0.002821	0.001463	0.097158	0.000482	0.009710	0.005528	0.001520	0.015203

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
3-Sep-2031	9.103822	9.908150	15.616500	2.334970	34.356057	1.323110	0.014548	0.141211	0.035755	0.002818	0.001463	0.097109	0.000481	0.009701	0.005522	0.001519	0.015187
4-Sep-2031	8.648125	10.048000	15.871200	2.357120	34.796476	1.348660	0.014802	0.143748	0.035910	0.002863	0.001466	0.097627	0.000490	0.009803	0.005606	0.001540	0.015396
5-Sep-2031	7.396769	9.888640	15.582700	2.332660	34.297828	1.319760	0.014512	0.140855	0.035645	0.002813	0.001462	0.097047	0.000480	0.009679	0.005509	0.001515	0.015155
6-Sep-2031	7.460619	9.916640	15.634900	2.337560	34.387922	1.325030	0.014563	0.141364	0.035628	0.002823	0.001462	0.097155	0.000482	0.009695	0.005525	0.001519	0.015195
7-Sep-2031	7.741074	10.001800	15.788900	2.350900	34.655501	1.340460	0.014717	0.142901	0.035737	0.002850	0.001464	0.097492	0.000487	0.009759	0.005577	0.001532	0.015322
8-Sep-2031	7.328412	10.016500	15.817200	2.352860	34.700278	1.343340	0.014746	0.143193	0.035760	0.002853	0.001464	0.097447	0.000488	0.009769	0.005586	0.001535	0.015346
9-Sep-2031	6.883546	10.044900	15.870400	2.357500	34.790300	1.348690	0.014798	0.143716	0.035763	0.002862	0.001464	0.097494	0.000490	0.009787	0.005603	0.001539	0.015387
10-Sep-2031	6.120883	10.105100	15.980800	2.366880	34.979247	1.359800	0.014908	0.144818	0.035823	0.002881	0.001465	0.097676	0.000493	0.009830	0.005639	0.001548	0.015478
11-Sep-2031	5.338493	10.147200	16.058200	2.373520	35.111714	1.367540	0.014985	0.145588	0.035871	0.002893	0.001466	0.097765	0.000496	0.009860	0.005664	0.001554	0.015542
12-Sep-2031	4.989635	10.164100	16.090000	2.376040	35.164290	1.370770	0.015017	0.145910	0.035884	0.002898	0.001466	0.097775	0.000497	0.009871	0.005674	0.001557	0.015567
13-Sep-2031	4.544124	10.227500	16.206300	2.385950	35.363410	1.382460	0.015133	0.147072	0.035955	0.002917	0.001468	0.097954	0.000501	0.009916	0.005713	0.001566	0.015662
14-Sep-2031	3.961750	10.255800	16.259200	2.390330	35.452112	1.387820	0.015186	0.147600	0.035970	0.002926	0.001468	0.098002	0.000503	0.009935	0.005730	0.001570	0.015705
15-Sep-2031	3.504793	10.335800	16.405900	2.402300	35.701164	1.402610	0.015334	0.149079	0.036086	0.002950	0.001469	0.098204	0.000507	0.009994	0.005778	0.001583	0.015826
16-Sep-2031	3.550878	10.692500	17.057900	2.456540	36.815204	1.468080	0.015987	0.155622	0.036605	0.003058	0.001476	0.099178	0.000529	0.010261	0.005995	0.001637	0.016368
17-Sep-2031	3.459966	10.526000	16.755600	2.431270	36.295392	1.437820	0.015684	0.152583	0.036314	0.003007	0.001472	0.098675	0.000519	0.010132	0.005894	0.001611	0.016113
18-Sep-2031	2.769713	10.563300	16.825100	2.436380	36.409573	1.445030	0.015755	0.153300	0.036350	0.003020	0.001472	0.098777	0.000522	0.010159	0.005917	0.001617	0.016169
19-Sep-2031	2.510404	10.571200	16.839500	2.437830	36.435270	1.446480	0.015769	0.153441	0.036345	0.003023	0.001472	0.098828	0.000522	0.010163	0.005921	0.001618	0.016181
20-Sep-2031	2.487980	10.722100	17.115700	2.460930	36.907193	1.474190	0.016045	0.156211	0.036564	0.003068	0.001475	0.099209	0.000531	0.010275	0.006013	0.001641	0.016410
21-Sep-2031	2.323140	10.646200	16.977900	2.450010	36.672703	1.460330	0.015906	0.154810	0.036393	0.003045	0.001473	0.098997	0.000527	0.010213	0.005966	0.001629	0.016292
22-Sep-2031	2.293965	10.619500	16.928400	2.447300	36.594873	1.455200	0.015853	0.154276	0.036289	0.003039	0.001473	0.099014	0.000525	0.010189	0.005949	0.001625	0.016248
23-Sep-2031	2.078466	10.681600	17.042300	2.456580	36.788152	1.466690	0.015968	0.155426	0.036381	0.003058	0.001474	0.099162	0.000529	0.010235	0.005986	0.001634	0.016343
24-Sep-2031	1.973325	10.726400	17.125900	2.463840	36.929914	1.475090	0.016050	0.156249	0.036392	0.003071	0.001475	0.099234	0.000532	0.010263	0.006013	0.001641	0.016409
25-Sep-2031	2.105173	11.277300	18.131500	2.547370	38.649488	1.576080	0.017058	0.166339	0.037209	0.003238	0.001486	0.100786	0.000565	0.010678	0.006348	0.001724	0.017244
26-Sep-2031	2.180950	10.914500	17.469200	2.492410	37.517251	1.509550	0.016395	0.159699	0.036681	0.003128	0.001479	0.099761	0.000543	0.010405	0.006127	0.001670	0.016695
27-Sep-2031	2.097030	10.845800	17.345200	2.481920	37.302509	1.497150	0.016271	0.158459	0.036570	0.003106	0.001477	0.099517	0.000539	0.010352	0.006085	0.001659	0.016591
28-Sep-2031	2.150353	11.280000	18.138000	2.548090	38.659195	1.576750	0.017064	0.166402	0.037184	0.003238	0.001486	0.100742	0.000565	0.010676	0.006349	0.001725	0.017248
29-Sep-2031	1.819582	10.954500	17.545800	2.498560	37.642457	1.517390	0.016471	0.160469	0.036686	0.003139	0.001478	0.099771	0.000546	0.010428	0.006151	0.001675	0.016755
30-Sep-2031	1.740849	11.057900	17.735000	2.514350	37.965670	1.536370	0.016661	0.162367	0.036834	0.003170	0.001481	0.100037	0.000552	0.010505	0.006214	0.001691	0.016912
1-Oct-2031	1.307430	10.877000	17.405500	2.487220	37.402241	1.503280	0.016330	0.159052	0.036534	0.003115	0.001477	0.099497	0.000541	0.010366	0.006103	0.001664	0.016637
2-Oct-2031	1.257265	10.807200	17.278100	2.476580	37.184135	1.490490	0.016202	0.157774	0.036438	0.003094	0.001475	0.099300	0.000537	0.010314	0.006061	0.001653	0.016531
3-Oct-2031	1.067999	10.757100	17.188000	2.468690	37.026544	1.481570	0.016112	0.156878	0.036360	0.003079	0.001474	0.099136	0.000534	0.010274	0.006031	0.001645	0.016455
4-Oct-2031	0.347429	10.707300	17.097000	2.460860	36.869950	1.472500	0.016022	0.155976	0.036283	0.003064	0.001472	0.099019	0.000531	0.010238	0.006001	0.001638	0.016380
5-Oct-2031	0.061469	10.685400	17.057400	2.457230	36.800317	1.468590	0.015983	0.155589	0.036255	0.003058	0.001472	0.098944	0.000529	0.010222	0.005988	0.001635	0.016347
6-Oct-2031	0.103930	10.672200	17.034800	2.454800	36.757350	1.466440	0.015961	0.155373	0.036240	0.003053	0.001471	0.098903	0.000529	0.010211	0.005980	0.001633	0.016328
7-Oct-2031	0.046915	10.666800	17.024000	2.454110	36.741025	1.465270	0.015950	0.155262	0.036237	0.003051	0.001471	0.098854	0.000528	0.010208	0.005977	0.001632	0.016320
8-Oct-2031	0.028775	10.623100	16.945700	2.446670	36.601268	1.457640	0.015873	0.154499	0.036168	0.003039	0.001469	0.098723	0.000526	0.010175	0.005951	0.001625	0.016254
9-Oct-2031	0.157491	10.606200	16.915300	2.444030	36.548197	1.454730	0.015843	0.154200	0.036126	0.003035	0.001468	0.098693	0.000525	0.010162	0.005941	0.001623	0.016227
10-Oct-2031	0.040838	10.609800	16.922500	2.444310	36.558339	1.455450	0.015851	0.154274	0.036131	0.003036	0.001468	0.098654	0.000525	0.010164	0.005943	0.001623	0.016233
11-Oct-2031	0.033555	10.567700	16.846600	2.437310	36.424389	1.447980	0.015776	0.153532	0.036075	0.003023	0.001467	0.098528	0.000522	0.010133	0.005918	0.001617	0.016169
12-Oct-2031	0.068332	10.546400	16.808400	2.433740	36.356502	1.444260	0.015738	0.153159	0.036047	0.003017	0.001466	0.098476	0.000521	0.010117	0.005905	0.001614	0.016137
13-Oct-2031	0.038627	10.530100	16.779500	2.430900	36.304106	1.441450	0.015710	0.152878	0.036015	0.003012	0.001465	0.098400	0.000520	0.010104	0.005896	0.001611	0.016113
14-Oct-2031	0.028144	10.506600	16.737500	2.426890	36.228913	1.437360	0.015669	0.152469	0.035977	0.003005	0.001464	0.098292	0.000519	0.010086	0.005882	0.001608	0.016077
15-Oct-2031	0.027449	10.491500	16.710900	2.424200	36.180131	1.434860	0.015643	0.152216	0.035950	0.003001	0.001463	0.098235	0.000518	0.010074	0.005873	0.001605	0.016054
16-Oct-2031	0.028288	10.488600	16.706700	2.423430	36.169719	1.434450	0.015639	0.152176	0.035948	0.003000	0.001463	0.098211	0.000518	0.010071	0.005871	0.001605	0.016050
17-Oct-2031	0.028671	10.503600	16.728900	2.427390	36.223481	1.436240	0.015659	0.152368	0.035993	0.003005	0.001465	0.098389	0.000519	0.010087	0.005879	0.001607	0.016072
18-Oct-2031	0.029803	10.596800	16.879100	2.448350	36.542515	1.449280	0.015801	0.153747	0.036310	0.003031	0.001478	0.099409	0.000523	0.010175	0.005932	0.001622	0.016216
19-Oct-2031	0.030488	10.677500	16.993500	2.471660	36.840013	1.457840	0.015902	0.154702	0.036630	0.003059	0.001495	0.100524	0.000527	0.010262	0.005974	0.001633	0.016335
20-Oct-2031	0.031397	10.703400	17.039000	2.476250	36.923587	1.462120	0.015946	0.155142	0.036707	0.003065	0.001497	0.100590	0.000528	0.010284	0.005990	0.001638	0.016376
21-Oct-2031	0.032555	10.720800	17.070300	2.479070	36.978648	1.465110	0.015977	0.155450	0.036761	0.003068	0.001498	0.100594	0.000529	0.010299	0.006000	0.001640	0.016404
22-Oct-2031	0.033851	10.738300	17.099600	2.482860	37.037953	1.467700	0.016005	0.155727	0.036843	0.003071	0.001500	0.100694	0.000530	0.010316	0.006010	0.001643	0.016433
23-Oct-2031	0.034739	10.784000	17.168500	2.494460	37.199834	1.473300	0.016068	0.156330	0.036994	0.003087	0.001508	0.101272	0.000532	0.010362	0.006035	0.001650	0.016500
24-Oct-2031	0.034608	10.813500	17.215700	2.501810	37.303763	1.477490	0.016113	0.156773	0.037103	0.003096	0.001512	0.101617	0.000534	0.010391	0.006051	0.001655	0.016546

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-Oct-2031	0.034950	10.860300	17.289700	2.512220	37.463491	1.483690	0.016181	0.157432	0.037253	0.003109	0.001518	0.102007	0.000536	0.010435	0.006078	0.001662	0.016617
26-Oct-2031	0.034995	10.908900	17.369300	2.522710	37.628043	1.490730	0.016257	0.158171	0.037411	0.003122	0.001524	0.102371	0.000538	0.010480	0.006105	0.001669	0.016692
27-Oct-2031	0.035068	10.950200	17.436200	2.531920	37.769096	1.496550	0.016320	0.158786	0.037552	0.003133	0.001530	0.102711	0.000540	0.010519	0.006129	0.001676	0.016756
28-Oct-2031	0.035142	10.967100	17.463600	2.535920	37.827767	1.498970	0.016346	0.159040	0.037632	0.003138	0.001533	0.102862	0.000541	0.010536	0.006138	0.001678	0.016782
29-Oct-2031	0.034611	11.007500	17.525900	2.545540	37.968261	1.504080	0.016403	0.159596	0.037775	0.003149	0.001538	0.103265	0.000543	0.010576	0.006160	0.001684	0.016844
30-Oct-2031	0.034386	11.044600	17.590400	2.552930	38.091332	1.510160	0.016466	0.160215	0.037883	0.003159	0.001543	0.103563	0.000545	0.010607	0.006182	0.001690	0.016901
31-Oct-2031	0.034431	11.102400	17.682000	2.565930	38.289193	1.517980	0.016551	0.161046	0.038060	0.003176	0.001549	0.103997	0.000548	0.010663	0.006214	0.001699	0.016989
1-Nov-2031	0.034075	11.153200	17.763100	2.577650	38.464303	1.524960	0.016627	0.161786	0.038232	0.003190	0.001556	0.104472	0.000551	0.010711	0.006243	0.001707	0.017067
2-Nov-2031	0.033322	11.185400	17.814600	2.585020	38.575056	1.529410	0.016676	0.162257	0.038342	0.003199	0.001562	0.104857	0.000552	0.010742	0.006261	0.001712	0.017116
3-Nov-2031	0.032365	11.228000	17.882500	2.594810	38.721744	1.535250	0.016739	0.162876	0.038484	0.003212	0.001567	0.105232	0.000554	0.010783	0.006285	0.001718	0.017181
4-Nov-2031	0.031189	11.260400	17.933800	2.602420	38.833984	1.539630	0.016787	0.163341	0.038598	0.003221	0.001571	0.105495	0.000556	0.010814	0.006303	0.001723	0.017231
5-Nov-2031	0.030504	11.271600	17.947200	2.606610	38.879205	1.540390	0.016798	0.163441	0.038670	0.003225	0.001575	0.105760	0.000556	0.010829	0.006308	0.001725	0.017248
6-Nov-2031	0.029569	11.306800	18.004200	2.614320	38.998849	1.545340	0.016851	0.163960	0.038766	0.003235	0.001579	0.106058	0.000558	0.010861	0.006328	0.001730	0.017301
7-Nov-2031	0.029310	11.341100	18.059700	2.622000	39.116123	1.550200	0.016904	0.164470	0.038874	0.003245	0.001584	0.106354	0.000560	0.010893	0.006347	0.001735	0.017353
8-Nov-2031	0.028845	11.378500	18.120100	2.630440	39.244266	1.555450	0.016961	0.165025	0.039001	0.003256	0.001589	0.106665	0.000562	0.010928	0.006369	0.001741	0.017411
9-Nov-2031	0.027952	11.418300	18.183600	2.639610	39.381409	1.560910	0.017020	0.165604	0.039135	0.003267	0.001594	0.107028	0.000564	0.010966	0.006391	0.001747	0.017472
10-Nov-2031	0.027653	11.457500	18.246100	2.648720	39.516806	1.566270	0.017078	0.166172	0.039269	0.003278	0.001600	0.107396	0.000566	0.011004	0.006413	0.001753	0.017532
11-Nov-2031	0.027707	11.492200	18.301600	2.656590	39.635861	1.571070	0.017131	0.166680	0.039386	0.003288	0.001604	0.107720	0.000567	0.011037	0.006432	0.001758	0.017585
12-Nov-2031	0.027963	11.531400	18.364000	2.665620	39.770929	1.576450	0.017189	0.167249	0.039519	0.003299	0.001610	0.108092	0.000569	0.011075	0.006454	0.001764	0.017645
13-Nov-2031	0.028129	11.576600	18.435900	2.676070	39.926826	1.582610	0.017256	0.167903	0.039674	0.003312	0.001616	0.108517	0.000571	0.011118	0.006479	0.001771	0.017714
14-Nov-2031	0.027675	11.618600	18.502900	2.685770	40.071645	1.588370	0.017319	0.168514	0.039817	0.003324	0.001622	0.108910	0.000573	0.011158	0.006503	0.001778	0.017778
15-Nov-2031	0.027112	11.654400	18.560000	2.694040	40.195094	1.593280	0.017373	0.169034	0.039939	0.003335	0.001627	0.109285	0.000575	0.011193	0.006523	0.001783	0.017833
16-Nov-2031	0.027170	11.706400	18.641600	2.706390	40.375795	1.600190	0.017448	0.169771	0.040121	0.003350	0.001634	0.109778	0.000578	0.011243	0.006552	0.001791	0.017912
17-Nov-2031	0.027148	11.787400	18.767200	2.726200	40.659629	1.610670	0.017565	0.170895	0.040412	0.003374	0.001647	0.110673	0.000582	0.011324	0.006597	0.001803	0.018035
18-Nov-2031	0.027183	11.864300	18.888700	2.744370	40.926473	1.620990	0.017678	0.171994	0.040680	0.003397	0.001658	0.111439	0.000585	0.011399	0.006640	0.001815	0.018152
19-Nov-2031	0.027175	11.930000	18.993300	2.759480	41.152749	1.629990	0.017776	0.172948	0.040905	0.003415	0.001667	0.112048	0.000589	0.011461	0.006676	0.001825	0.018253
20-Nov-2031	0.027032	11.990100	19.089700	2.773350	41.359935	1.638270	0.017866	0.173826	0.041109	0.003432	0.001676	0.112575	0.000592	0.011518	0.006710	0.001835	0.018345
21-Nov-2031	0.027021	12.056400	19.196200	2.788410	41.587503	1.647480	0.017966	0.174801	0.041334	0.003451	0.001685	0.113165	0.000595	0.011582	0.006747	0.001845	0.018447
22-Nov-2031	0.027072	12.117100	19.292500	2.802470	41.796970	1.655740	0.018056	0.175678	0.041543	0.003468	0.001693	0.113742	0.000598	0.011640	0.006781	0.001854	0.018540
23-Nov-2031	0.027101	12.183100	19.397100	2.817910	42.025354	1.664670	0.018154	0.176627	0.041772	0.003487	0.001703	0.114386	0.000601	0.011704	0.006818	0.001864	0.018641
24-Nov-2031	0.027069	12.263900	19.525000	2.836790	42.304860	1.675580	0.018273	0.177788	0.042052	0.003511	0.001714	0.115172	0.000605	0.011782	0.006863	0.001876	0.018764
25-Nov-2031	0.026928	12.338900	19.643400	2.854490	42.565023	1.685650	0.018384	0.178860	0.042314	0.003532	0.001725	0.115920	0.000609	0.011855	0.006905	0.001888	0.018879
26-Nov-2031	0.026836	12.370400	19.693000	2.861890	42.674152	1.689870	0.018430	0.179309	0.042424	0.003542	0.001730	0.116234	0.000610	0.011886	0.006922	0.001893	0.018927
27-Nov-2031	0.026818	12.412600	19.759800	2.871830	42.820458	1.695550	0.018492	0.179914	0.042571	0.003554	0.001736	0.116653	0.000612	0.011927	0.006946	0.001899	0.018991
28-Nov-2031	0.026747	12.453200	19.823300	2.881490	42.961616	1.700930	0.018551	0.180487	0.042714	0.003566	0.001742	0.117071	0.000614	0.011966	0.006969	0.001905	0.019053
29-Nov-2031	0.026645	12.482700	19.870500	2.888230	43.063033	1.705000	0.018596	0.180919	0.042814	0.003574	0.001746	0.117341	0.000616	0.011995	0.006985	0.001910	0.019098
30-Nov-2031	0.026510	12.515500	19.923400	2.895620	43.175367	1.709590	0.018645	0.181404	0.042924	0.003584	0.001750	0.117627	0.000617	0.012026	0.007004	0.001915	0.019148
1-Dec-2031	0.026419	12.562600	19.998700	2.906420	43.337450	1.716080	0.018716	0.182091	0.043084	0.003597	0.001757	0.118059	0.000620	0.012071	0.007030	0.001922	0.019221
2-Dec-2031	0.026291	12.611500	20.076600	2.917730	43.506128	1.722770	0.018789	0.182800	0.043252	0.003611	0.001764	0.118520	0.000622	0.012118	0.007057	0.001930	0.019295
3-Dec-2031	0.026137	12.640200	20.122400	2.924320	43.604929	1.726720	0.018832	0.183219	0.043349	0.003619	0.001767	0.118785	0.000624	0.012145	0.007074	0.001934	0.019339
4-Dec-2031	0.026095	12.682000	20.188800	2.934030	43.749290	1.732400	0.018894	0.183822	0.043493	0.003631	0.001773	0.119183	0.000626	0.012186	0.007097	0.001940	0.019403
5-Dec-2031	0.026058	12.733800	20.271000	2.946110	43.928380	1.739430	0.018971	0.184569	0.043671	0.003646	0.001781	0.119683	0.000628	0.012236	0.007126	0.001948	0.019482
6-Dec-2031	0.026046	12.757900	20.309500	2.951600	44.011165	1.742760	0.019007	0.184921	0.043752	0.003653	0.001784	0.119901	0.000629	0.012258	0.007139	0.001952	0.019519
7-Dec-2031	0.026020	12.794300	20.367900	2.959880	44.136153	1.747820	0.019062	0.185456	0.043875	0.003663	0.001789	0.120226	0.000631	0.012293	0.007160	0.001957	0.019575
8-Dec-2031	0.026040	12.825200	20.417500	2.966930	44.242342	1.752100	0.019108	0.185909	0.043980	0.003672	0.001793	0.120504	0.000633	0.012323	0.007177	0.001962	0.019622
9-Dec-2031	0.026034	12.858700	20.471000	2.974570	44.357453	1.756720	0.019158	0.186398	0.044093	0.003682	0.001798	0.120807	0.000634	0.012354	0.007196	0.001967	0.019674
10-Dec-2031	0.025898	12.879200	20.503900	2.979270	44.427996	1.759550	0.019189	0.186698	0.044163	0.003687	0.001800	0.120994	0.000635	0.012374	0.007207	0.001971	0.019705
11-Dec-2031	0.025850	12.835100	20.433600	2.969030	44.275710	1.753530	0.019124	0.186059	0.044011	0.003675	0.001794	0.120576	0.000633	0.012332	0.007183	0.001964	0.019637
12-Dec-2031	0.025867	12.898900	20.534900	2.983940	44.496418	1.762190	0.019218	0.186979	0.044232	0.003693	0.001803	0.121193	0.000636	0.012393	0.007218	0.001974	0.019735
13-Dec-2031	0.025787	12.952800	20.620500	2.996480	44.682646	1.769520	0.019298	0.187757	0.044417	0.003709	0.001811	0.121708	0.000639	0.012445	0.007249	0.001982	0.019818
14-Dec-2031	0.025736	13.003800	20.701600	3.008240	44.858421	1.776480	0.019374	0.188496	0.044591	0.003723	0.001818	0.122184	0.000642	0.012494	0.007277	0.001990	0.019895
15-Dec-2031	0.025742	13.061100	20.792900	3.021530	45.056227	1.784300	0.019460	0.189326	0.044789	0.003740	0.001826	0.122726	0.000644	0.012549	0.007309	0.001998	0.019983

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16-Dec-2031	0.025696	13.116300	20.880800	3.034280	45.246566	1.791850	0.019542	0.190127	0.044977	0.003756	0.001834	0.123243	0.000647	0.012602	0.007340	0.002007	0.020068
17-Dec-2031	0.025652	13.163500	20.956100	3.045170	45.409270	1.798320	0.019612	0.190813	0.045139	0.003769	0.001840	0.123682	0.000649	0.012647	0.007366	0.002014	0.020140
18-Dec-2031	0.025649	13.215600	21.039100	3.057220	45.588985	1.805450	0.019690	0.191569	0.045317	0.003784	0.001848	0.124171	0.000652	0.012698	0.007396	0.002022	0.020220
19-Dec-2031	0.025624	13.263100	21.114700	3.068210	45.752849	1.811940	0.019761	0.192257	0.045480	0.003798	0.001854	0.124618	0.000654	0.012743	0.007422	0.002029	0.020292
20-Dec-2031	0.025578	13.261400	21.111700	3.067840	45.747081	1.811670	0.019758	0.192230	0.045474	0.003797	0.001854	0.124607	0.000654	0.012742	0.007421	0.002029	0.020290
21-Dec-2031	0.025573	13.313800	21.195200	3.080000	45.927999	1.818830	0.019836	0.192989	0.045655	0.003812	0.001861	0.125103	0.000657	0.012792	0.007451	0.002037	0.020370
22-Dec-2031	0.025567	13.368900	21.282900	3.092720	46.117964	1.826360	0.019918	0.193789	0.045843	0.003828	0.001869	0.125618	0.000660	0.012845	0.007481	0.002045	0.020454
23-Dec-2031	0.025532	13.424300	21.371100	3.105550	46.309132	1.833930	0.020001	0.194591	0.046033	0.003844	0.001877	0.126139	0.000662	0.012898	0.007512	0.002054	0.020539
24-Dec-2031	0.025526	13.484600	21.467000	3.119540	46.517312	1.842150	0.020090	0.195464	0.046241	0.003861	0.001885	0.126711	0.000665	0.012956	0.007546	0.002063	0.020631
25-Dec-2031	0.025507	13.543100	21.560100	3.133050	46.719021	1.850140	0.020178	0.196312	0.046441	0.003878	0.001893	0.127258	0.000668	0.013012	0.007579	0.002072	0.020721
26-Dec-2031	0.025443	13.604000	21.657000	3.147140	46.929111	1.858460	0.020268	0.197194	0.046650	0.003895	0.001902	0.127832	0.000671	0.013071	0.007613	0.002081	0.020814
27-Dec-2031	0.025423	13.662800	21.750600	3.160790	47.132145	1.866470	0.020356	0.198045	0.046852	0.003912	0.001910	0.128389	0.000674	0.013127	0.007646	0.002090	0.020904
28-Dec-2031	0.025399	13.697300	21.805600	3.168760	47.251112	1.871200	0.020407	0.198547	0.046970	0.003922	0.001915	0.128711	0.000676	0.013161	0.007665	0.002096	0.020956
29-Dec-2031	0.025332	13.747900	21.886200	3.180450	47.425599	1.878120	0.020483	0.199280	0.047143	0.003936	0.001922	0.129186	0.000678	0.013209	0.007693	0.002103	0.021034
30-Dec-2031	0.025329	13.826300	22.010900	3.198630	47.696229	1.888810	0.020599	0.200415	0.047412	0.003959	0.001933	0.129927	0.000682	0.013285	0.007737	0.002115	0.021154
31-Dec-2031	0.025295	13.898800	22.126300	3.215410	47.946362	1.898710	0.020707	0.201466	0.047661	0.003980	0.001943	0.130610	0.000686	0.013354	0.007778	0.002126	0.021265
1-Jan-2032	0.025235	13.975200	22.247900	3.233050	48.209774	1.909150	0.020821	0.202573	0.047922	0.004002	0.001954	0.131325	0.000689	0.013428	0.007821	0.002138	0.021382
2-Jan-2032	0.025232	14.081700	22.417400	3.257690	48.577172	1.923700	0.020980	0.204117	0.048287	0.004032	0.001969	0.132326	0.000695	0.013530	0.007880	0.002154	0.021544
3-Jan-2032	0.025207	14.148600	22.523900	3.273190	48.808051	1.932830	0.021079	0.205086	0.048517	0.004051	0.001978	0.132958	0.000698	0.013594	0.007918	0.002165	0.021647
4-Jan-2032	0.025172	14.188700	22.587700	3.282470	48.946395	1.938310	0.021139	0.205667	0.048654	0.004063	0.001984	0.133335	0.000700	0.013633	0.007940	0.002171	0.021708
5-Jan-2032	0.025139	14.237800	22.665800	3.293840	49.115820	1.945000	0.021212	0.206378	0.048823	0.004077	0.001991	0.133799	0.000702	0.013680	0.007968	0.002178	0.021783
6-Jan-2032	0.025109	14.270600	22.718000	3.301470	49.229142	1.949470	0.021261	0.206852	0.048936	0.004086	0.001995	0.134111	0.000704	0.013712	0.007986	0.002183	0.021833
7-Jan-2032	0.025091	14.320800	22.797900	3.313050	49.402178	1.956340	0.021336	0.207581	0.049107	0.004101	0.002002	0.134580	0.000707	0.013760	0.008014	0.002191	0.021910
8-Jan-2032	0.025031	14.375000	22.884300	3.325580	49.589113	1.963760	0.021417	0.208368	0.049293	0.004116	0.002010	0.135088	0.000709	0.013812	0.008044	0.002199	0.021993
9-Jan-2032	0.025013	14.424300	22.962600	3.337020	49.759325	1.970460	0.021490	0.209079	0.049462	0.004130	0.002017	0.135556	0.000712	0.013859	0.008072	0.002207	0.022068
10-Jan-2032	0.024991	14.460500	23.020300	3.345420	49.884308	1.975410	0.021544	0.209605	0.049586	0.004141	0.002022	0.135898	0.000713	0.013894	0.008092	0.002212	0.022124
11-Jan-2032	0.024966	14.519800	23.114700	3.359100	50.088714	1.983520	0.021632	0.210465	0.049789	0.004158	0.002030	0.136453	0.000716	0.013951	0.008125	0.002221	0.022215
12-Jan-2032	0.024945	14.372700	22.880200	3.325200	49.581806	1.963370	0.021413	0.208328	0.049286	0.004116	0.002010	0.135085	0.000709	0.013810	0.008043	0.002199	0.021990
13-Jan-2032	0.024910	14.473200	23.039700	3.348560	49.928950	1.977020	0.021562	0.209777	0.049632	0.004145	0.002024	0.136045	0.000714	0.013907	0.008099	0.002214	0.022143
14-Jan-2032	0.024872	14.513700	23.104100	3.357970	50.068829	1.982540	0.021622	0.210363	0.049771	0.004156	0.002030	0.136430	0.000716	0.013946	0.008122	0.002221	0.022205
15-Jan-2032	0.024840	14.550300	23.162500	3.366380	50.194852	1.987570	0.021677	0.210897	0.049896	0.004167	0.002035	0.136767	0.000718	0.013981	0.008142	0.002226	0.022261
16-Jan-2032	0.024836	14.641900	23.308000	3.387700	50.511373	2.000010	0.021813	0.212218	0.050212	0.004193	0.002048	0.137643	0.000722	0.014069	0.008194	0.002240	0.022401
17-Jan-2032	0.024806	14.670400	23.353200	3.394330	50.609840	2.003880	0.021855	0.212629	0.050310	0.004201	0.002052	0.137916	0.000724	0.014096	0.008209	0.002244	0.022445
18-Jan-2032	0.024782	14.741500	23.467700	3.410350	50.853347	2.013820	0.021963	0.213680	0.050548	0.004221	0.002061	0.138533	0.000727	0.014164	0.008249	0.002255	0.022554
19-Jan-2032	0.024766	14.849000	23.638900	3.435230	51.224230	2.028520	0.022123	0.215238	0.050917	0.004252	0.002076	0.139544	0.000733	0.014267	0.008310	0.002272	0.022718
20-Jan-2032	0.024755	14.967200	23.827100	3.462580	51.632003	2.044670	0.022299	0.216952	0.051322	0.004286	0.002093	0.140654	0.000738	0.014381	0.008376	0.002290	0.022899
21-Jan-2032	0.024752	15.094400	24.029900	3.491920	52.070443	2.062100	0.022489	0.218800	0.051757	0.004322	0.002110	0.141839	0.000745	0.014503	0.008447	0.002309	0.023094
22-Jan-2032	0.024730	15.332000	24.408100	3.546910	52.890179	2.094540	0.022843	0.222243	0.052572	0.004390	0.002144	0.144075	0.000756	0.014731	0.008580	0.002346	0.023457
23-Jan-2032	0.024717	15.549900	24.754800	3.597370	53.642070	2.124280	0.023167	0.225399	0.053320	0.004453	0.002174	0.146129	0.000767	0.014941	0.008702	0.002379	0.023791
24-Jan-2032	0.024695	15.700200	24.993800	3.632180	54.160717	2.144770	0.023391	0.227574	0.053836	0.004496	0.002195	0.147548	0.000775	0.015085	0.008786	0.002402	0.024020
25-Jan-2032	0.024676	15.787000	25.132000	3.652310	54.460352	2.156620	0.023520	0.228832	0.054134	0.004521	0.002207	0.148368	0.000779	0.015169	0.008835	0.002415	0.024153
26-Jan-2032	0.024659	15.855500	25.241000	3.668170	54.696708	2.165970	0.023622	0.229824	0.054369	0.004540	0.002217	0.149013	0.000782	0.015234	0.008873	0.002426	0.024258
27-Jan-2032	0.024643	15.935500	25.368300	3.686680	54.972692	2.176900	0.023741	0.230984	0.054643	0.004563	0.002228	0.149766	0.000786	0.015311	0.008918	0.002438	0.024381
28-Jan-2032	0.024630	16.006200	25.480700	3.703030	55.216559	2.186550	0.023847	0.232007	0.054885	0.004583	0.002238	0.150431	0.000790	0.015379	0.008957	0.002449	0.024489
29-Jan-2032	0.024619	16.080200	25.598600	3.720160	55.471878	2.196660	0.023957	0.233080	0.055139	0.004605	0.002248	0.151127	0.000793	0.015450	0.008999	0.002460	0.024602
30-Jan-2032	0.024610	16.155100	25.717700	3.737480	55.730227	2.206880	0.024068	0.234165	0.055396	0.004626	0.002259	0.151831	0.000797	0.015522	0.009040	0.002472	0.024716
31-Jan-2032	0.024604	16.230600	25.838000	3.754980	55.990816	2.217200	0.024181	0.235260	0.055655	0.004648	0.002269	0.152542	0.000801	0.015595	0.009083	0.002483	0.024832
1-Feb-2032	0.024598	16.360700	26.045100	3.785070	56.439586	2.234970	0.024375	0.237145	0.056101	0.004685	0.002288	0.153765	0.000807	0.015720	0.009156	0.002503	0.025031
2-Feb-2032	0.024594	16.484300	26.241900	3.813670	56.865990	2.251850	0.024559	0.238937	0.056525	0.004720	0.002305	0.154927	0.000813	0.015839	0.009225	0.002522	0.025220
3-Feb-2032	0.024589	16.604600	26.433200	3.841490	57.280942	2.268280	0.024738	0.240680	0.056937	0.004755	0.002322	0.156058	0.000819	0.015954	0.009292	0.002540	0.025404
4-Feb-2032	0.024585	16.778600	26.710300	3.881750	57.881211	2.292050	0.024997	0.243202	0.057534	0.004805	0.002346	0.157694	0.000828	0.016121	0.009389	0.002567	0.025670
5-Feb-2032	0.024583	16.970200	27.015300	3.926090	58.542228	2.318230	0.025283	0.245980	0.058191	0.004860	0.002373	0.159495	0.000837	0.016305	0.009497	0.002596	0.025963

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Feb-2032	0.024581	17.183400	27.354700	3.975410	59.277688	2.347350	0.025600	0.249069	0.058922	0.004921	0.002403	0.161499	0.000848	0.016510	0.009616	0.002629	0.026290
7-Feb-2032	0.024578	17.419800	27.731100	4.030100	60.093192	2.379640	0.025952	0.252496	0.059733	0.004988	0.002436	0.163721	0.000859	0.016737	0.009748	0.002665	0.026651
8-Feb-2032	0.024578	17.698300	28.174400	4.094530	61.053930	2.417680	0.026367	0.256533	0.060688	0.005068	0.002475	0.166338	0.000873	0.017005	0.009904	0.002708	0.027077
9-Feb-2032	0.024577	17.995500	28.647500	4.163290	62.079192	2.458280	0.026810	0.260841	0.061707	0.005153	0.002516	0.169131	0.000888	0.017291	0.010070	0.002753	0.027532
10-Feb-2032	0.024576	18.274700	29.092000	4.227880	63.042336	2.496420	0.027226	0.264888	0.062664	0.005233	0.002555	0.171755	0.000902	0.017559	0.010227	0.002796	0.027959
11-Feb-2032	0.024575	18.568200	29.559200	4.295780	64.054817	2.536520	0.027663	0.269142	0.063671	0.005317	0.002596	0.174513	0.000916	0.017841	0.010391	0.002841	0.028408
12-Feb-2032	0.024575	18.876000	30.049300	4.367000	65.116678	2.578570	0.028122	0.273604	0.064726	0.005405	0.002639	0.177407	0.000931	0.018137	0.010563	0.002888	0.028879
13-Feb-2032	0.024575	18.785200	29.904600	4.345980	64.803390	2.566160	0.027987	0.272287	0.064415	0.005379	0.002627	0.176553	0.000927	0.018049	0.010512	0.002874	0.028740
14-Feb-2032	0.024575	19.076000	30.367600	4.413270	65.806618	2.605890	0.028420	0.276503	0.065412	0.005463	0.002667	0.179286	0.000941	0.018329	0.010675	0.002919	0.029185
15-Feb-2032	0.024574	19.365500	30.828500	4.480250	66.805323	2.645440	0.028851	0.280699	0.066405	0.005545	0.002708	0.182007	0.000955	0.018607	0.010837	0.002963	0.029628
16-Feb-2032	0.024574	19.654400	31.288300	4.547070	67.801871	2.684900	0.029282	0.284886	0.067395	0.005628	0.002748	0.184722	0.000970	0.018884	0.010999	0.003007	0.030070
17-Feb-2032	0.024574	19.942900	31.747700	4.613830	68.797173	2.724320	0.029711	0.289069	0.068385	0.005711	0.002788	0.187434	0.000984	0.019162	0.011160	0.003051	0.030512
18-Feb-2032	0.024574	20.231100	32.206400	4.680490	69.791315	2.763680	0.030141	0.293245	0.069373	0.005793	0.002829	0.190142	0.000998	0.019439	0.011321	0.003095	0.030952
19-Feb-2032	0.024574	20.518900	32.664600	4.747080	70.784169	2.803000	0.030570	0.297417	0.070360	0.005876	0.002869	0.192847	0.001012	0.019715	0.011483	0.003139	0.031393
20-Feb-2032	0.024574	20.806500	33.122400	4.813610	71.776276	2.842280	0.030998	0.301586	0.071346	0.005958	0.002909	0.195549	0.001026	0.019991	0.011643	0.003183	0.031833
21-Feb-2032	0.024574	21.093900	33.580000	4.880110	72.767761	2.881550	0.031426	0.305752	0.072331	0.006040	0.002949	0.198251	0.001041	0.020268	0.011804	0.003227	0.032272
22-Feb-2032	0.024574	21.381300	34.037500	4.946600	73.759205	2.920810	0.031854	0.309918	0.073317	0.006123	0.002990	0.200952	0.001055	0.020544	0.011965	0.003271	0.032712
23-Feb-2032	0.024577	21.669200	34.495800	5.013210	74.752391	2.960140	0.032283	0.314091	0.074304	0.006205	0.003030	0.203658	0.001069	0.020820	0.012126	0.003315	0.033153
24-Feb-2032	0.024577	21.957600	34.955000	5.079930	75.747279	2.999540	0.032713	0.318272	0.075293	0.006288	0.003070	0.206368	0.001083	0.021097	0.012288	0.003359	0.033594
25-Feb-2032	0.024577	22.246700	35.415200	5.146820	76.744615	3.039030	0.033144	0.322462	0.076284	0.006371	0.003111	0.209085	0.001098	0.021375	0.012449	0.003404	0.034036
26-Feb-2032	0.024577	22.534500	35.873300	5.213390	77.737387	3.078350	0.033572	0.326633	0.077271	0.006453	0.003151	0.211790	0.001112	0.021652	0.012610	0.003448	0.034477
27-Feb-2032	0.024574	19.558000	31.135000	4.524760	67.469288	2.671750	0.029138	0.283490	0.067064	0.005601	0.002735	0.183815	0.000965	0.018792	0.010945	0.002992	0.029923
28-Feb-2032	0.024573	19.732200	31.412300	4.565060	68.070220	2.695540	0.029398	0.286015	0.067661	0.005650	0.002759	0.185452	0.000973	0.018959	0.011042	0.003019	0.030189
29-Feb-2032	0.024573	19.900600	31.680400	4.604020	68.651153	2.718550	0.029648	0.288456	0.068239	0.005699	0.002783	0.187035	0.000982	0.019121	0.011137	0.003045	0.030447
1-Mar-2032	0.024573	20.062900	31.938700	4.641560	69.211005	2.740710	0.029890	0.290808	0.068795	0.005745	0.002805	0.188560	0.000990	0.019277	0.011227	0.003070	0.030695
2-Mar-2032	0.024573	20.220100	32.189000	4.677940	69.753347	2.762190	0.030125	0.293087	0.069334	0.005790	0.002827	0.190038	0.000998	0.019428	0.011315	0.003094	0.030936
3-Mar-2032	0.024573	20.374300	32.434400	4.713600	70.285232	2.783250	0.030354	0.295322	0.069863	0.005834	0.002849	0.191487	0.001005	0.019576	0.011402	0.003117	0.031171
4-Mar-2032	0.024574	18.716900	29.796000	4.330170	64.567739	2.556840	0.027885	0.271298	0.064181	0.005360	0.002617	0.175909	0.000923	0.017984	0.010474	0.002864	0.028636
5-Mar-2032	0.024574	18.867000	30.035000	4.364910	65.085598	2.577350	0.028109	0.273474	0.064695	0.005403	0.002638	0.177320	0.000931	0.018128	0.010558	0.002887	0.028866
6-Mar-2032	0.024574	19.021700	30.281200	4.400690	65.619226	2.598480	0.028339	0.275716	0.065226	0.005447	0.002660	0.178774	0.000938	0.018277	0.010645	0.002910	0.029102
7-Mar-2032	0.024574	19.181000	30.534700	4.437530	66.168706	2.620230	0.028576	0.278024	0.065772	0.005493	0.002682	0.180271	0.000946	0.018430	0.010734	0.002935	0.029346
8-Mar-2032	0.024573	19.344800	30.795600	4.475450	66.733869	2.642620	0.028820	0.280400	0.066334	0.005540	0.002705	0.181811	0.000954	0.018587	0.010826	0.002960	0.029597
9-Mar-2032	0.024573	19.513400	31.063900	4.514440	67.315424	2.665640	0.029072	0.282843	0.066912	0.005588	0.002728	0.183395	0.000963	0.018749	0.010920	0.002985	0.029854
10-Mar-2032	0.024573	19.691900	31.348200	4.555750	67.931253	2.690030	0.029338	0.285431	0.067524	0.005639	0.002753	0.185073	0.000971	0.018921	0.011020	0.003013	0.030128
11-Mar-2032	0.024573	19.877800	31.644000	4.598750	68.572519	2.715420	0.029614	0.288125	0.068161	0.005692	0.002779	0.186820	0.000981	0.019099	0.011124	0.003041	0.030412
12-Mar-2032	0.024573	20.069000	31.948500	4.642990	69.232126	2.741550	0.029899	0.290897	0.068817	0.005747	0.002806	0.188617	0.000990	0.019283	0.011231	0.003070	0.030705
13-Mar-2032	0.024573	20.265600	32.261500	4.688480	69.910364	2.768410	0.030192	0.293747	0.069491	0.005803	0.002834	0.190465	0.001000	0.019472	0.011341	0.003101	0.031005
14-Mar-2032	0.024573	20.467700	32.583100	4.735210	70.607442	2.796000	0.030493	0.296675	0.070184	0.005861	0.002862	0.192364	0.001010	0.019666	0.011454	0.003131	0.031314
15-Mar-2032	0.024573	20.675500	32.913900	4.783300	71.324353	2.824400	0.030803	0.299688	0.070897	0.005921	0.002891	0.194317	0.001020	0.019866	0.011570	0.003163	0.031632
16-Mar-2032	0.024573	20.889700	33.255000	4.832870	72.063340	2.853660	0.031122	0.302793	0.071631	0.005982	0.002921	0.196331	0.001031	0.020071	0.011690	0.003196	0.031960
17-Mar-2032	0.024573	21.110000	33.605600	4.883810	72.823200	2.883750	0.031450	0.305985	0.072386	0.006045	0.002952	0.198400	0.001041	0.020283	0.011813	0.003230	0.032297
18-Mar-2032	0.024573	21.336300	33.965900	4.936170	73.603889	2.914660	0.031787	0.309266	0.073163	0.006110	0.002983	0.200527	0.001053	0.020500	0.011940	0.003264	0.032643
19-Mar-2032	0.024573	21.568900	34.336200	4.989990	74.406322	2.946440	0.032134	0.312637	0.073960	0.006176	0.003016	0.202713	0.001064	0.020724	0.012070	0.003300	0.032999
20-Mar-2032	0.024573	21.808100	34.716900	5.045320	75.231453	2.979110	0.032490	0.316104	0.074780	0.006245	0.003049	0.204961	0.001076	0.020954	0.012204	0.003337	0.033365
21-Mar-2032	0.024573	22.054100	35.108600	5.102250	76.080153	3.012730	0.032857	0.319671	0.075624	0.006315	0.003084	0.207274	0.001088	0.021190	0.012342	0.003374	0.033742
22-Mar-2032	0.024573	22.307000	35.511100	5.160740	76.952506	3.047270	0.033234	0.323336	0.076491	0.006388	0.003119	0.209650	0.001100	0.021433	0.012483	0.003413	0.034128
23-Mar-2032	0.024573	22.566700	35.924500	5.220820	77.848387	3.082740	0.033620	0.327100	0.077381	0.006462	0.003155	0.212091	0.001113	0.021683	0.012628	0.003453	0.034526
24-Mar-2032	0.024572	22.833500	36.349300	5.282550	78.768790	3.119190	0.034018	0.330967	0.078296	0.006539	0.003193	0.214599	0.001126	0.021939	0.012778	0.003493	0.034934
25-Mar-2032	0.024572	23.107600	36.785700	5.345970	79.714382	3.156640	0.034426	0.334941	0.079236	0.006617	0.003231	0.217175	0.001140	0.022202	0.012931	0.003535	0.035353
26-Mar-2032	0.024572	23.389000	37.233600	5.411060	80.685078	3.195070	0.034846	0.339019	0.080201	0.006698	0.003270	0.219819	0.001154	0.022473	0.013089	0.003578	0.035784
27-Mar-2032	0.024572	23.677900	37.693600	5.477910	81.681750	3.234540	0.035276	0.343207	0.081192	0.006780	0.003311	0.222535	0.001168	0.022750	0.013250	0.003623	0.036226
28-Mar-2032	0.024572	23.973500	38.164100	5.546290	82.701452	3.274920	0.035716	0.347491	0.082206	0.006865	0.003352	0.225313	0.001183	0.023034	0.013416	0.003668	0.036678

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
29-Mar-2032	0.024572	24.275700	38.645300	5.616220	83.744017	3.316210	0.036167	0.351873	0.083242	0.006952	0.003394	0.228154	0.001198	0.023325	0.013585	0.003714	0.037141
30-Mar-2032	0.024572	24.586500	39.139900	5.688110	84.816127	3.358660	0.036630	0.356377	0.084307	0.007041	0.003438	0.231074	0.001213	0.023623	0.013759	0.003762	0.037616
31-Mar-2032	0.024570	24.906200	39.648900	5.762080	85.919027	3.402340	0.037106	0.361011	0.085404	0.007132	0.003482	0.234079	0.001229	0.023931	0.013938	0.003811	0.038105
1-Apr-2032	0.024570	25.232300	40.168000	5.837510	87.043919	3.446880	0.037592	0.365737	0.086522	0.007225	0.003528	0.237143	0.001245	0.024244	0.014120	0.003860	0.038604
2-Apr-2032	0.024570	25.495800	40.587500	5.898480	87.952953	3.482880	0.037984	0.369557	0.087426	0.007301	0.003565	0.239620	0.001258	0.024497	0.014268	0.003901	0.039007
3-Apr-2032	0.024570	25.667800	40.861300	5.938260	88.546251	3.506370	0.038241	0.372049	0.088015	0.007350	0.003589	0.241236	0.001266	0.024662	0.014364	0.003927	0.039270
4-Apr-2032	0.024570	25.792200	41.059400	5.967060	88.975476	3.523370	0.038426	0.373853	0.088442	0.007386	0.003606	0.242406	0.001272	0.024782	0.014433	0.003946	0.039461
5-Apr-2032	0.024569	25.887500	41.211100	5.989100	89.304201	3.536380	0.038568	0.375234	0.088769	0.007413	0.003620	0.243301	0.001277	0.024873	0.014487	0.003961	0.039606
6-Apr-2032	0.024569	25.962500	41.330500	6.006460	89.562965	3.546640	0.038680	0.376322	0.089026	0.007435	0.003630	0.244006	0.001281	0.024945	0.014529	0.003972	0.039721
7-Apr-2032	0.024569	26.023000	41.426700	6.020440	89.771603	3.554890	0.038770	0.377198	0.089233	0.007452	0.003639	0.244575	0.001284	0.025004	0.014563	0.003981	0.039814
8-Apr-2032	0.024569	26.072600	41.505800	6.031930	89.942770	3.561680	0.038844	0.377918	0.089404	0.007466	0.003646	0.245041	0.001286	0.025051	0.014590	0.003989	0.039890
9-Apr-2032	0.024569	26.114100	41.571800	6.041530	90.085928	3.567350	0.038906	0.378520	0.089546	0.007478	0.003651	0.245431	0.001288	0.025091	0.014614	0.003995	0.039953
10-Apr-2032	0.024569	26.146500	41.623400	6.049020	90.197675	3.571770	0.038954	0.378989	0.089657	0.007487	0.003656	0.245736	0.001290	0.025122	0.014632	0.004000	0.040003
11-Apr-2032	0.024569	26.175700	41.669800	6.055760	90.298343	3.575750	0.038997	0.379411	0.089757	0.007496	0.003660	0.246010	0.001291	0.025150	0.014648	0.004005	0.040047
12-Apr-2032	0.024569	26.201200	41.710500	6.061680	90.386395	3.579240	0.039035	0.379782	0.089844	0.007503	0.003663	0.246250	0.001293	0.025175	0.014662	0.004009	0.040086
13-Apr-2032	0.024569	26.223500	41.746000	6.066840	90.463327	3.582290	0.039069	0.380106	0.089921	0.007509	0.003667	0.246460	0.001294	0.025196	0.014675	0.004012	0.040121
14-Apr-2032	0.024569	26.243400	41.777700	6.071450	90.532001	3.585010	0.039098	0.380394	0.089989	0.007515	0.003669	0.246647	0.001295	0.025215	0.014686	0.004015	0.040151
15-Apr-2032	0.024569	26.262000	41.807300	6.075740	90.596111	3.587550	0.039126	0.380663	0.090053	0.007520	0.003672	0.246821	0.001296	0.025233	0.014696	0.004018	0.040179
16-Apr-2032	0.024569	26.279800	41.835500	6.079850	90.657483	3.589970	0.039152	0.380921	0.090114	0.007525	0.003674	0.246988	0.001296	0.025250	0.014706	0.004021	0.040207
17-Apr-2032	0.024569	26.296700	41.862600	6.083780	90.715866	3.592290	0.039178	0.381167	0.090172	0.007530	0.003677	0.247148	0.001297	0.025267	0.014716	0.004023	0.040233
18-Apr-2032	0.024569	26.312700	41.888000	6.087480	90.771055	3.594480	0.039201	0.381398	0.090227	0.007535	0.003679	0.247298	0.001298	0.025282	0.014725	0.004026	0.040257
19-Apr-2032	0.024569	26.327700	41.911900	6.090950	90.822799	3.596530	0.039224	0.381616	0.090278	0.007539	0.003681	0.247439	0.001299	0.025296	0.014733	0.004028	0.040280
20-Apr-2032	0.024569	26.341900	41.934500	6.094230	90.871763	3.598460	0.039245	0.381821	0.090327	0.007543	0.003683	0.247572	0.001300	0.025310	0.014741	0.004030	0.040302
21-Apr-2032	0.024569	26.355300	41.955700	6.097320	90.917948	3.600290	0.039265	0.382015	0.090373	0.007547	0.003685	0.247698	0.001300	0.025323	0.014749	0.004032	0.040322
22-Apr-2032	0.024569	26.367800	41.975700	6.100210	90.961061	3.602000	0.039283	0.382196	0.090416	0.007551	0.003687	0.247815	0.001301	0.025335	0.014756	0.004034	0.040341
23-Apr-2032	0.024569	26.379600	41.994400	6.102940	91.001768	3.603610	0.039301	0.382367	0.090456	0.007554	0.003688	0.247926	0.001301	0.025346	0.014762	0.004036	0.040359
24-Apr-2032	0.024569	26.390600	42.012100	6.105500	91.039777	3.605120	0.039317	0.382528	0.090494	0.007557	0.003690	0.248030	0.001302	0.025357	0.014768	0.004038	0.040376
25-Apr-2032	0.024569	26.401000	42.028600	6.107900	91.075629	3.606540	0.039333	0.382678	0.090530	0.007560	0.003691	0.248128	0.001302	0.025367	0.014774	0.004039	0.040392
26-Apr-2032	0.024569	26.410700	42.043900	6.110130	91.109033	3.607850	0.039347	0.382818	0.090563	0.007563	0.003693	0.248218	0.001303	0.025376	0.014780	0.004041	0.040407
27-Apr-2032	0.024569	26.419500	42.058000	6.112180	91.139449	3.609060	0.039360	0.382946	0.090593	0.007565	0.003694	0.248301	0.001303	0.025385	0.014785	0.004042	0.040420
28-Apr-2032	0.024569	26.427600	42.070900	6.114050	91.167375	3.610170	0.039373	0.383063	0.090621	0.007568	0.003695	0.248377	0.001304	0.025392	0.014789	0.004043	0.040433
29-Apr-2032	0.024593	26.434600	42.082100	6.115680	91.191566	3.611130	0.039383	0.383165	0.090645	0.007570	0.003696	0.248444	0.001304	0.025399	0.014793	0.004044	0.040444
30-Apr-2032	0.024847	26.433800	42.080700	6.115480	91.188745	3.611010	0.039382	0.383152	0.090642	0.007569	0.003696	0.248435	0.001304	0.025398	0.014792	0.004044	0.040442
1-May-2032	0.026291	26.393700	42.016900	6.106210	91.050442	3.605540	0.039322	0.382572	0.090504	0.007558	0.003690	0.248059	0.001302	0.025360	0.014770	0.004038	0.040381
2-May-2032	0.031945	26.147300	41.624700	6.049200	90.200414	3.571880	0.038955	0.379000	0.089660	0.007487	0.003656	0.245743	0.001290	0.025123	0.014632	0.004000	0.040004
3-May-2032	0.039484	25.687500	40.892700	5.942830	88.614261	3.509070	0.038270	0.372336	0.088083	0.007356	0.003592	0.241422	0.001267	0.024681	0.014375	0.003930	0.039300
4-May-2032	0.044720	25.142400	40.024900	5.816710	86.733785	3.434600	0.037458	0.364434	0.086214	0.007200	0.003515	0.236298	0.001240	0.024157	0.014070	0.003847	0.038466
5-May-2032	0.051274	24.543500	39.071500	5.678160	84.667782	3.352790	0.036566	0.355754	0.084160	0.007028	0.003432	0.230670	0.001211	0.023582	0.013735	0.003755	0.037550
6-May-2032	0.057899	23.974700	38.166100	5.546580	82.705642	3.275090	0.035718	0.347510	0.082210	0.006865	0.003352	0.225324	0.001183	0.023036	0.013416	0.003668	0.036680
7-May-2032	0.063490	23.499800	37.410100	5.436700	81.067331	3.210220	0.035011	0.340626	0.080581	0.006729	0.003286	0.220861	0.001159	0.022579	0.013151	0.003595	0.035953
8-May-2032	0.068534	23.086600	36.752300	5.341110	79.641931	3.153770	0.034395	0.334636	0.079164	0.006611	0.003228	0.216977	0.001139	0.022182	0.012919	0.003532	0.035321
9-May-2032	0.073840	22.653000	36.062000	5.240800	78.146155	3.094540	0.033749	0.328352	0.077677	0.006487	0.003167	0.212902	0.001118	0.021766	0.012677	0.003466	0.034658
10-May-2032	0.084630	22.463700	35.760600	5.196990	77.493064	3.068670	0.033467	0.325607	0.077028	0.006433	0.003141	0.211123	0.001108	0.021584	0.012571	0.003437	0.034368
11-May-2032	0.090227	22.100500	35.182400	5.112970	76.240159	3.019060	0.032926	0.320343	0.075783	0.006329	0.003090	0.207709	0.001090	0.021235	0.012368	0.003381	0.033813
12-May-2032	0.109499	21.666900	34.492100	5.012650	74.744342	2.959830	0.032280	0.314057	0.074296	0.006204	0.003029	0.203634	0.001069	0.020818	0.012125	0.003315	0.033149
13-May-2032	0.119462	21.314400	33.931000	4.931100	73.528327	2.911680	0.031755	0.308948	0.073087	0.006104	0.002980	0.200321	0.001052	0.020479	0.011928	0.003261	0.032610
14-May-2032	0.132102	20.569200	32.744700	4.758690	70.957578	2.809870	0.030644	0.298146	0.070532	0.005890	0.002876	0.193317	0.001015	0.019763	0.011511	0.003147	0.031470
15-May-2032	0.152854	18.253900	29.059000	4.223060	62.970549	2.493600	0.027195	0.264587	0.062593	0.005227	0.002552	0.171558	0.000901	0.017539	0.010215	0.002793	0.027927
16-May-2032	0.182193	18.213500	28.994700	4.213720	62.831208	2.488080	0.027135	0.264002	0.062454	0.005216	0.002547	0.171178	0.000899	0.017500	0.010192	0.002787	0.027866
17-May-2032	0.188929	18.029500	28.701700	4.171130	62.196375	2.462940	0.026861	0.261334	0.061823	0.005163	0.002521	0.169448	0.000889	0.017323	0.010089	0.002758	0.027584
18-May-2032	0.195811	17.414400	27.722600	4.028840	60.074520	2.378920	0.025945	0.252419	0.059714	0.004987	0.002435	0.163668	0.000859	0.016732	0.009745	0.002664	0.026643
19-May-2032	0.202698	17.232300	27.432600	3.986710	59.446325	2.354040	0.025673	0.249779	0.059090	0.004935	0.002409	0.161957	0.000850	0.016557	0.009643	0.002636	0.026364

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
20-May-2032	0.188387	16.925600	26.944400	3.915760	58.388323	2.312140	0.025216	0.245334	0.058038	0.004847	0.002367	0.159074	0.000835	0.016263	0.009472	0.002590	0.025895
21-May-2032	0.191792	16.533600	26.320300	3.825060	57.035996	2.258580	0.024632	0.239651	0.056694	0.004735	0.002312	0.155390	0.000816	0.015886	0.009252	0.002530	0.025295
22-May-2032	0.194208	16.236400	25.847100	3.756310	56.010775	2.217980	0.024189	0.235342	0.055675	0.004649	0.002270	0.152597	0.000801	0.015600	0.009086	0.002484	0.024841
23-May-2032	0.197710	15.864200	25.254600	3.670220	54.726873	2.167120	0.023635	0.229947	0.054399	0.004543	0.002218	0.149100	0.000783	0.015243	0.008878	0.002427	0.024271
24-May-2032	0.204199	16.196100	25.782700	3.747090	55.872178	2.212420	0.024129	0.234753	0.055540	0.004638	0.002265	0.152226	0.000799	0.015562	0.009063	0.002478	0.024779
25-May-2032	0.211149	15.124100	24.076200	3.499020	52.173842	2.066000	0.022532	0.219217	0.051862	0.004331	0.002115	0.142147	0.000746	0.014532	0.008463	0.002314	0.023139
26-May-2032	0.221943	14.831600	23.610600	3.431380	51.164928	2.026040	0.022096	0.214976	0.050860	0.004247	0.002074	0.139399	0.000732	0.014251	0.008300	0.002269	0.022691
27-May-2032	0.233536	14.553500	23.167900	3.367050	50.205601	1.988040	0.021682	0.210945	0.049907	0.004167	0.002035	0.136787	0.000718	0.013984	0.008144	0.002227	0.022266
28-May-2032	0.254244	14.403500	22.929000	3.332350	49.688157	1.967540	0.021458	0.208769	0.049393	0.004124	0.002014	0.135377	0.000711	0.013840	0.008060	0.002204	0.022036
29-May-2032	0.284907	14.298400	22.761400	3.308120	49.325943	1.953130	0.021301	0.207241	0.049035	0.004094	0.002000	0.134397	0.000705	0.013739	0.008001	0.002188	0.021875
30-May-2032	0.318407	14.196700	22.599300	3.284690	48.975513	1.939190	0.021149	0.205764	0.048687	0.004065	0.001985	0.133452	0.000700	0.013641	0.007944	0.002172	0.021720
31-May-2032	0.367008	14.099100	22.443600	3.262210	48.639233	1.925790	0.021003	0.204343	0.048354	0.004037	0.001972	0.132546	0.000696	0.013548	0.007890	0.002157	0.021570
1-Jun-2032	0.423374	13.961600	22.224500	3.230490	48.165273	1.906970	0.020798	0.202346	0.047885	0.003998	0.001953	0.131262	0.000689	0.013416	0.007813	0.002136	0.021360
2-Jun-2032	0.519333	13.842000	22.033800	3.202910	47.753057	1.890560	0.020619	0.200607	0.047479	0.003964	0.001936	0.130146	0.000683	0.013302	0.007746	0.002118	0.021177
3-Jun-2032	0.586610	13.677900	21.772100	3.165080	47.187516	1.868040	0.020374	0.198219	0.046924	0.003917	0.001914	0.128614	0.000675	0.013144	0.007654	0.002093	0.020926
4-Jun-2032	0.768571	13.567900	21.595500	3.140020	46.809649	1.852740	0.020208	0.196601	0.046566	0.003885	0.001899	0.127612	0.000669	0.013040	0.007592	0.002076	0.020758
5-Jun-2032	0.802974	13.337200	21.223900	3.087970	46.019249	1.820400	0.019858	0.193188	0.045839	0.003818	0.001869	0.125550	0.000658	0.012824	0.007462	0.002041	0.020406
6-Jun-2032	0.768556	13.155000	20.925300	3.048200	45.400523	1.793830	0.019573	0.190396	0.045326	0.003764	0.001848	0.124051	0.000648	0.012659	0.007359	0.002013	0.020130
7-Jun-2032	0.754945	12.939200	20.570300	3.001700	44.670183	1.762220	0.019237	0.187114	0.044757	0.003699	0.001824	0.122271	0.000637	0.012466	0.007237	0.001981	0.019805
8-Jun-2032	0.757843	12.742200	20.246000	2.959230	44.003383	1.733180	0.018927	0.184081	0.044226	0.003640	0.001802	0.120673	0.000627	0.012290	0.007125	0.001951	0.019507
9-Jun-2032	0.748931	12.565200	19.954800	2.921000	43.403982	1.707150	0.018649	0.181360	0.043750	0.003588	0.001782	0.119244	0.000617	0.012132	0.007024	0.001924	0.019239
10-Jun-2032	0.743949	12.291400	19.501900	2.862650	42.480019	1.666400	0.018216	0.177120	0.043059	0.003506	0.001753	0.117080	0.000603	0.011890	0.006869	0.001883	0.018826
11-Jun-2032	0.757431	12.077500	19.144500	2.818080	41.762371	1.633800	0.017871	0.173737	0.042563	0.003441	0.001733	0.115464	0.000592	0.011706	0.006746	0.001850	0.018505
12-Jun-2032	0.792991	11.849100	18.760400	2.771070	40.998469	1.598470	0.017499	0.170073	0.042157	0.003371	0.001712	0.113805	0.000579	0.011512	0.006615	0.001816	0.018161
13-Jun-2032	0.851232	11.662200	18.442400	2.733560	40.377313	1.568760	0.017187	0.166988	0.041888	0.003313	0.001700	0.112593	0.000569	0.011358	0.006508	0.001788	0.017881
14-Jun-2032	0.928196	11.492100	18.153400	2.699230	39.811203	1.541820	0.016904	0.164192	0.041557	0.003261	0.001686	0.111419	0.000560	0.011217	0.006410	0.001762	0.017625
15-Jun-2032	0.993126	11.309000	17.833400	2.664660	39.211643	1.511010	0.016584	0.161016	0.041326	0.003203	0.001676	0.110560	0.000549	0.011076	0.006304	0.001735	0.017349
16-Jun-2032	1.056210	11.116500	17.499700	2.627570	38.578234	1.479200	0.016254	0.157735	0.041021	0.003143	0.001663	0.109405	0.000538	0.010924	0.006192	0.001706	0.017060
17-Jun-2032	1.162155	10.946600	17.210400	2.593250	38.012664	1.452300	0.015973	0.154964	0.040730	0.003092	0.001650	0.108423	0.000529	0.010785	0.006095	0.001681	0.016805
18-Jun-2032	1.291431	10.782400	16.930000	2.560270	37.466845	1.426140	0.015700	0.152269	0.040361	0.003042	0.001635	0.107306	0.000520	0.010650	0.006000	0.001656	0.016558
19-Jun-2032	1.435144	10.643900	16.688800	2.533680	37.011513	1.403150	0.015462	0.149913	0.040082	0.003000	0.001623	0.106445	0.000512	0.010543	0.005920	0.001635	0.016350
20-Jun-2032	1.595977	10.518800	16.473700	2.508980	36.597423	1.382910	0.015252	0.147837	0.039809	0.002962	0.001612	0.105563	0.000505	0.010443	0.005848	0.001616	0.016162
21-Jun-2032	1.795481	10.416200	16.295300	2.489150	36.259571	1.365960	0.015076	0.146101	0.039641	0.002931	0.001605	0.105018	0.000499	0.010363	0.005789	0.001601	0.016009
22-Jun-2032	2.051979	10.308700	16.110000	2.468070	35.904336	1.348490	0.014896	0.144314	0.039383	0.002898	0.001596	0.104237	0.000493	0.010277	0.005727	0.001585	0.015848
23-Jun-2032	2.317744	10.139100	15.808900	2.436600	35.351252	1.319390	0.014598	0.141354	0.039229	0.002848	0.001587	0.103497	0.000483	0.010154	0.005628	0.001559	0.015594
24-Jun-2032	2.539860	10.004800	15.571100	2.411590	34.912913	1.296410	0.014363	0.139011	0.039104	0.002807	0.001580	0.102994	0.000476	0.010054	0.005550	0.001539	0.015391
25-Jun-2032	2.688144	9.779870	15.170700	2.369980	34.179913	1.257670	0.013968	0.135079	0.038807	0.002741	0.001568	0.101933	0.000462	0.009892	0.005420	0.001505	0.015054
26-Jun-2032	2.911725	9.650990	14.945200	2.345170	33.755932	1.236250	0.013748	0.132900	0.038615	0.002704	0.001559	0.101292	0.000455	0.009793	0.005345	0.001486	0.014862
27-Jun-2032	3.061556	9.431950	14.555700	2.304370	33.040975	1.198700	0.013366	0.129101	0.038387	0.002640	0.001547	0.100399	0.000442	0.009635	0.005219	0.001453	0.014533
28-Jun-2032	3.161837	9.289820	14.309000	2.276780	32.572461	1.175340	0.013125	0.126728	0.038085	0.002598	0.001537	0.099602	0.000434	0.009524	0.005137	0.001432	0.014319
29-Jun-2032	3.220589	9.082530	13.943500	2.237440	31.892855	1.140390	0.012768	0.123182	0.037781	0.002537	0.001524	0.098661	0.000422	0.009369	0.005017	0.001401	0.014007
30-Jun-2032	4.957831	7.047810	10.264300	1.866740	25.285617	0.783153	0.009155	0.087242	0.035598	0.001988	0.001437	0.093686	0.000301	0.007983	0.003841	0.001091	0.010915
1-Jul-2032	5.161558	7.035330	10.350400	1.841490	25.150475	0.798696	0.009249	0.088377	0.034597	0.001952	0.001411	0.090544	0.000305	0.007838	0.003841	0.001091	0.010906
2-Jul-2032	5.402104	7.210410	10.661000	1.873680	25.720208	0.828176	0.009543	0.091308	0.034594	0.001998	0.001401	0.090181	0.000315	0.007971	0.003943	0.001117	0.011171
3-Jul-2032	6.178462	7.444590	11.082200	1.909700	26.453286	0.870371	0.009969	0.095560	0.034980	0.002074	0.001406	0.090694	0.000329	0.008157	0.004086	0.001152	0.011524
4-Jul-2032	7.251929	7.765530	11.671500	1.959270	27.458802	0.929363	0.010555	0.101422	0.035374	0.002167	0.001413	0.091306	0.000349	0.008389	0.004280	0.001201	0.012010
5-Jul-2032	7.410166	7.586170	11.335500	1.932670	26.901402	0.895533	0.010223	0.098098	0.035178	0.002120	0.001411	0.091252	0.000338	0.008267	0.004172	0.001174	0.011736
6-Jul-2032	8.136285	7.517850	11.201800	1.923000	26.690985	0.882082	0.010097	0.096827	0.035135	0.002108	0.001411	0.091870	0.000333	0.008229	0.004131	0.001163	0.011629
7-Jul-2032	8.571641	7.640590	11.433600	1.942760	27.078839	0.905222	0.010322	0.099086	0.035170	0.002138	0.001413	0.091511	0.000341	0.008302	0.004203	0.001182	0.011815
8-Jul-2032	9.050100	7.544040	11.250900	1.929010	26.781131	0.886770	0.010143	0.097283	0.035048	0.002115	0.001412	0.091590	0.000335	0.008237	0.004144	0.001167	0.011666
9-Jul-2032	9.778754	7.639810	11.422900	1.944450	27.083851	0.903934	0.010316	0.099016	0.035176	0.002146	0.001415	0.092015	0.000341	0.008310	0.004202	0.001181	0.011809
10-Jul-2032	11.344220	7.821490	11.752700	1.972590	27.653386	0.937003	0.010648	0.102335	0.035440	0.002203	0.001419	0.092641	0.000352	0.008448	0.004312	0.001208	0.012083

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Jul-2032	12.073629	8.088080	12.224300	2.015280	28.494859	0.984223	0.011131	0.107159	0.035890	0.002300	0.001427	0.094268	0.000367	0.008665	0.004474	0.001248	0.012480
12-Jul-2032	12.867910	7.695100	11.508600	1.956060	27.269720	0.912257	0.010412	0.099957	0.035270	0.002178	0.001419	0.093299	0.000343	0.008365	0.004235	0.001188	0.011884
13-Jul-2032	13.026767	7.937500	11.956900	1.993150	28.027729	0.957232	0.010857	0.104423	0.035566	0.002246	0.001424	0.093422	0.000358	0.008536	0.004381	0.001225	0.012254
14-Jul-2032	13.647951	8.055300	12.169500	2.011390	28.396988	0.978531	0.011071	0.106557	0.035739	0.002284	0.001427	0.093886	0.000366	0.008627	0.004452	0.001243	0.012431
15-Jul-2032	13.120620	7.984880	12.039600	2.001270	28.179475	0.965461	0.010942	0.105263	0.035614	0.002265	0.001425	0.093788	0.000361	0.008574	0.004409	0.001232	0.012322
16-Jul-2032	13.086061	8.143480	12.327900	2.026100	28.677749	0.994334	0.011231	0.108159	0.035830	0.002314	0.001429	0.094311	0.000371	0.008692	0.004505	0.001256	0.012562
17-Jul-2032	13.321792	8.266590	12.551700	2.045270	29.064097	1.016760	0.011456	0.110403	0.035997	0.002352	0.001432	0.094714	0.000378	0.008784	0.004580	0.001275	0.012747
18-Jul-2032	13.923600	8.143440	12.327300	2.027900	28.685062	0.994078	0.011230	0.108139	0.035753	0.002314	0.001430	0.094353	0.000371	0.008685	0.004503	0.001256	0.012559
19-Jul-2032	12.708137	8.006980	12.080000	2.008470	28.264309	0.969095	0.010979	0.105627	0.035467	0.002271	0.001427	0.093889	0.000363	0.008573	0.004418	0.001235	0.012351
20-Jul-2032	12.034180	8.050910	12.158900	2.016200	28.405834	0.976919	0.011059	0.106418	0.035493	0.002286	0.001429	0.094106	0.000365	0.008603	0.004444	0.001242	0.012415
21-Jul-2032	11.471482	8.083930	12.216100	2.022360	28.513652	0.982591	0.011118	0.107007	0.035512	0.002300	0.001430	0.094407	0.000367	0.008628	0.004464	0.001246	0.012462
22-Jul-2032	11.470745	8.121410	12.280800	2.029510	28.636683	0.989006	0.011185	0.107674	0.035525	0.002316	0.001432	0.094769	0.000369	0.008656	0.004486	0.001251	0.012515
23-Jul-2032	11.573557	8.176150	12.379700	2.038540	28.810554	0.998870	0.011284	0.108666	0.035582	0.002334	0.001433	0.094993	0.000373	0.008696	0.004518	0.001260	0.012596
24-Jul-2032	11.452865	8.238550	12.496300	2.048330	29.006682	1.010490	0.011399	0.109809	0.035640	0.002349	0.001434	0.094996	0.000376	0.008737	0.004555	0.001269	0.012692
25-Jul-2032	11.205122	8.354710	12.707800	2.066420	29.371228	1.031700	0.011611	0.111932	0.035793	0.002386	0.001437	0.095369	0.000384	0.008823	0.004626	0.001287	0.012867
26-Jul-2032	11.222649	8.457650	12.893900	2.082860	29.695970	1.050330	0.011798	0.113807	0.035921	0.002419	0.001440	0.095788	0.000390	0.008900	0.004688	0.001302	0.013021
27-Jul-2032	11.864784	8.450160	12.878500	2.082700	29.676608	1.048690	0.011783	0.113657	0.035886	0.002419	0.001440	0.095871	0.000389	0.008893	0.004682	0.001301	0.013008
28-Jul-2032	12.193098	9.118990	14.100000	2.184690	31.766671	1.171340	0.013007	0.125906	0.036832	0.002622	0.001454	0.097762	0.000430	0.009393	0.005088	0.001402	0.014021
29-Jul-2032	12.465076	9.302540	14.435100	2.213420	32.343306	1.204870	0.013343	0.129262	0.037079	0.002677	0.001458	0.098270	0.000441	0.009528	0.005199	0.001430	0.014299
30-Jul-2032	12.890192	9.250280	14.340700	2.205370	32.179663	1.195330	0.013246	0.128293	0.037000	0.002659	0.001457	0.098036	0.000438	0.009487	0.005167	0.001422	0.014220
31-Jul-2032	13.326153	9.001710	13.888700	2.168610	31.407606	1.149850	0.012792	0.123738	0.036563	0.002582	0.001452	0.097256	0.000423	0.009292	0.005015	0.001384	0.013843
1-Aug-2032	14.008810	8.638250	13.224400	2.115300	30.280516	1.083000	0.012125	0.117066	0.035942	0.002474	0.001445	0.096330	0.000401	0.009011	0.004792	0.001329	0.013288
2-Aug-2032	13.958567	8.960720	13.813000	2.164440	31.288082	1.142060	0.012715	0.122969	0.036419	0.002571	0.001452	0.097236	0.000420	0.009254	0.004988	0.001378	0.013777
3-Aug-2032	14.108786	8.847780	13.604900	2.148640	30.941006	1.121100	0.012508	0.120886	0.036198	0.002540	0.001450	0.097077	0.000413	0.009165	0.004918	0.001360	0.013602
4-Aug-2032	14.303259	9.114620	14.090600	2.190850	31.781126	1.169700	0.012994	0.125747	0.036531	0.002623	0.001456	0.097945	0.000430	0.009361	0.005078	0.001400	0.014004
5-Aug-2032	13.877761	9.035310	13.946700	2.179180	31.535032	1.155110	0.012847	0.124277	0.036404	0.002597	0.001455	0.097634	0.000425	0.009299	0.005030	0.001388	0.013884
6-Aug-2032	13.881747	9.017880	13.913400	2.177890	31.486197	1.151630	0.012813	0.123932	0.036326	0.002593	0.001455	0.097688	0.000424	0.009282	0.005018	0.001386	0.013855
7-Aug-2032	13.740535	9.302400	14.434700	2.222080	32.378618	1.203840	0.013333	0.129132	0.036689	0.002678	0.001461	0.098394	0.000441	0.009488	0.005189	0.001429	0.014286
8-Aug-2032	13.443812	9.150840	14.158900	2.200630	31.911842	1.176000	0.013055	0.126335	0.036362	0.002632	0.001458	0.097961	0.000432	0.009365	0.005095	0.001405	0.014053
9-Aug-2032	12.923953	9.028870	13.932900	2.184270	31.539912	1.153140	0.012828	0.124062	0.036112	0.002600	0.001457	0.097881	0.000424	0.009269	0.005019	0.001386	0.013863
10-Aug-2032	12.908373	9.515640	14.822000	2.258250	33.060027	1.242380	0.013718	0.132970	0.036810	0.002746	0.001467	0.099215	0.000454	0.009634	0.005315	0.001460	0.014601
11-Aug-2032	12.458208	9.135280	14.126300	2.202240	31.879618	1.172330	0.013020	0.125971	0.036187	0.002633	0.001460	0.098251	0.000431	0.009343	0.005082	0.001402	0.014022
12-Aug-2032	12.336565	9.042260	13.958500	2.189890	31.596490	1.155230	0.012847	0.124240	0.035951	0.002602	0.001458	0.097882	0.000425	0.009261	0.005023	0.001388	0.013879
13-Aug-2032	11.876578	9.190660	14.229500	2.212890	32.061759	1.182380	0.013118	0.126948	0.036152	0.002647	0.001461	0.098291	0.000434	0.009371	0.005113	0.001410	0.014104
14-Aug-2032	11.104420	9.264830	14.363700	2.225330	32.298189	1.195770	0.013252	0.128283	0.036206	0.002672	0.001463	0.098647	0.000439	0.009423	0.005157	0.001421	0.014213
15-Aug-2032	10.512631	9.297950	14.422600	2.231800	32.407534	1.201530	0.013310	0.128856	0.036205	0.002684	0.001465	0.098841	0.000441	0.009444	0.005176	0.001426	0.014261
16-Aug-2032	10.870386	9.174760	14.199300	2.214710	32.029552	1.178910	0.013083	0.126578	0.035948	0.002645	0.001462	0.098418	0.000433	0.009342	0.005099	0.001407	0.014073
17-Aug-2032	11.135078	9.513580	14.817600	2.267700	33.093798	1.240790	0.013700	0.132746	0.036377	0.002748	0.001470	0.099420	0.000454	0.009589	0.005303	0.001458	0.014583
18-Aug-2032	11.551694	9.659310	15.079300	2.291650	33.556312	1.267010	0.013962	0.135362	0.036512	0.002800	0.001474	0.100195	0.000463	0.009696	0.005391	0.001480	0.014796
19-Aug-2032	11.705961	10.003400	15.704400	2.345140	34.635776	1.329690	0.014588	0.141622	0.036979	0.002909	0.001481	0.101391	0.000484	0.009954	0.005599	0.001531	0.015314
20-Aug-2032	11.939304	9.795200	15.327500	2.313300	33.984784	1.291680	0.014208	0.137821	0.036683	0.002839	0.001477	0.100521	0.000471	0.009795	0.005472	0.001500	0.015004
21-Aug-2032	12.247888	9.882000	15.486100	2.327330	34.259299	1.307550	0.014366	0.139397	0.036760	0.002866	0.001479	0.100793	0.000476	0.009856	0.005524	0.001513	0.015134
22-Aug-2032	12.255359	9.558430	14.894200	2.280040	33.256604	1.247860	0.013770	0.133426	0.036217	0.002769	0.001473	0.099977	0.000457	0.009607	0.005326	0.001464	0.014641
23-Aug-2032	11.371547	9.416430	14.633300	2.261460	32.825518	1.221400	0.013504	0.130755	0.035850	0.002731	0.001471	0.099780	0.000448	0.009488	0.005236	0.001442	0.014418
24-Aug-2032	11.239165	9.547950	14.873000	2.281970	33.238384	1.245380	0.013744	0.133147	0.036028	0.002771	0.001474	0.100175	0.000456	0.009586	0.005316	0.001462	0.014617
25-Aug-2032	11.575396	9.885580	15.490400	2.333700	34.294470	1.307270	0.014361	0.139322	0.036504	0.002871	0.001481	0.101037	0.000476	0.009836	0.005520	0.001513	0.015130
26-Aug-2032	11.729245	9.967310	15.636800	2.347350	34.554760	1.321880	0.014507	0.140777	0.036575	0.002900	0.001484	0.101495	0.000481	0.009896	0.005569	0.001525	0.015250
27-Aug-2032	12.034345	10.084800	15.852800	2.366050	34.925140	1.343440	0.014721	0.142917	0.036697	0.002934	0.001486	0.101738	0.000489	0.009978	0.005639	0.001543	0.015428
28-Aug-2032	11.565084	9.572790	14.913600	2.291390	33.339201	1.248860	0.013776	0.133450	0.035814	0.002786	0.001477	0.100673	0.000457	0.009586	0.005326	0.001464	0.014642
29-Aug-2032	10.797414	9.767040	15.271400	2.320850	33.945559	1.284710	0.014134	0.137025	0.036086	0.002840	0.001481	0.100995	0.000469	0.009728	0.005443	0.001494	0.014940
30-Aug-2032	9.912448	9.820730	15.368100	2.329860	34.116726	1.294310	0.014229	0.137980	0.036135	0.002858	0.001482	0.101242	0.000472	0.009766	0.005475	0.001502	0.015020
31-Aug-2032	9.558916	9.757580	15.253300	2.321950	33.926467	1.282570	0.014111	0.136788	0.035957	0.002839	0.001481	0.101062	0.000469	0.009710	0.005435	0.001492	0.014922

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Sep-2032	9.709961	9.910160	15.532200	2.345840	34.405839	1.310450	0.014389	0.139566	0.036154	0.002884	0.001485	0.101460	0.000478	0.009822	0.005527	0.001515	0.015153
2-Sep-2032	9.625803	10.688800	16.953000	2.464490	36.838703	1.453050	0.015812	0.153807	0.037290	0.003120	0.001501	0.103676	0.000525	0.010407	0.006000	0.001633	0.016332
3-Sep-2032	9.765703	10.276600	16.201000	2.402070	35.552394	1.377500	0.015058	0.146259	0.036686	0.002994	0.001493	0.102484	0.000500	0.010096	0.005749	0.001571	0.015708
4-Sep-2032	9.576904	10.461200	16.539400	2.430420	36.130086	1.411480	0.015397	0.149644	0.036905	0.003050	0.001496	0.102963	0.000511	0.010230	0.005861	0.001599	0.015987
5-Sep-2032	9.320253	10.150000	15.971900	2.383590	35.160174	1.354510	0.014827	0.143945	0.036408	0.002957	0.001490	0.102099	0.000493	0.009993	0.005671	0.001551	0.015513
6-Sep-2032	9.112777	10.497700	16.605700	2.436830	36.247623	1.418110	0.015462	0.150296	0.036903	0.003063	0.001497	0.103144	0.000514	0.010254	0.005882	0.001604	0.016039
7-Sep-2032	8.934010	10.141100	15.956600	2.383230	35.136468	1.352970	0.014810	0.143775	0.036333	0.002956	0.001490	0.102135	0.000492	0.009979	0.005665	0.001550	0.015497
8-Sep-2032	9.264252	10.337000	16.313800	2.413200	35.749047	1.388800	0.015168	0.147355	0.036601	0.003016	0.001493	0.102694	0.000504	0.010127	0.005783	0.001579	0.015794
9-Sep-2032	8.389501	10.300300	16.246800	2.407980	35.635911	1.382170	0.015101	0.146682	0.036499	0.003008	0.001492	0.102695	0.000502	0.010096	0.005761	0.001574	0.015735
10-Sep-2032	8.174924	10.167600	16.004000	2.388650	35.224958	1.357760	0.014856	0.144234	0.036256	0.002969	0.001489	0.102396	0.000494	0.009993	0.005680	0.001553	0.015532
11-Sep-2032	7.705428	10.543700	16.690600	2.446140	36.400823	1.426640	0.015544	0.151114	0.036800	0.003083	0.001497	0.103446	0.000517	0.010275	0.005908	0.001610	0.016101
12-Sep-2032	6.517504	10.307000	16.259100	2.410500	35.663018	1.383460	0.015111	0.146788	0.036383	0.003014	0.001492	0.102872	0.000502	0.010093	0.005764	0.001574	0.015739
13-Sep-2032	5.430321	10.258600	16.171600	2.403600	35.513749	1.374710	0.015023	0.145903	0.036265	0.003001	0.001490	0.102743	0.000499	0.010052	0.005734	0.001566	0.015664
14-Sep-2032	5.029648	10.306500	16.259300	2.411280	35.664982	1.383490	0.015110	0.146775	0.036314	0.003015	0.001491	0.102881	0.000502	0.010086	0.005762	0.001574	0.015736
15-Sep-2032	4.699239	10.383300	16.399400	2.423150	35.905632	1.397560	0.015251	0.148179	0.036412	0.003039	0.001493	0.103123	0.000507	0.010143	0.005809	0.001585	0.015852
16-Sep-2032	4.324479	10.878000	17.303000	2.498490	37.451148	1.488300	0.016156	0.157237	0.037115	0.003190	0.001503	0.104520	0.000537	0.010513	0.006109	0.001660	0.016600
17-Sep-2032	4.449621	11.041200	17.600200	2.523350	37.961032	1.518050	0.016453	0.160214	0.037382	0.003238	0.001507	0.104969	0.000547	0.010638	0.006209	0.001685	0.016849
18-Sep-2032	4.127103	10.727300	17.029300	2.475970	36.982113	1.460810	0.015881	0.154484	0.036859	0.003143	0.001500	0.104042	0.000528	0.010396	0.006017	0.001637	0.016372
19-Sep-2032	3.780021	11.063800	17.643100	2.527320	38.033812	1.522420	0.016496	0.160639	0.037349	0.003246	0.001507	0.105020	0.000549	0.010649	0.006222	0.001688	0.016881
20-Sep-2032	3.250343	11.109000	17.726600	2.534390	38.175791	1.530760	0.016579	0.161468	0.037400	0.003258	0.001508	0.105088	0.000551	0.010681	0.006249	0.001695	0.016950
21-Sep-2032	3.063094	11.369300	18.203100	2.574050	38.989080	1.578670	0.017056	0.166245	0.037741	0.003337	0.001512	0.105793	0.000567	0.010873	0.006407	0.001734	0.017343
22-Sep-2032	2.851046	10.941300	17.424300	2.509570	37.654835	1.500620	0.016275	0.158429	0.037015	0.003209	0.001503	0.104591	0.000541	0.010543	0.006146	0.001669	0.016691
23-Sep-2032	2.277800	11.023800	17.574900	2.522180	37.912766	1.515810	0.016426	0.159943	0.037122	0.003236	0.001504	0.104869	0.000546	0.010604	0.006196	0.001681	0.016815
24-Sep-2032	1.808138	10.813400	17.190700	2.490810	37.258215	1.477280	0.016040	0.156086	0.036767	0.003174	0.001499	0.104349	0.000534	0.010443	0.006068	0.001649	0.016494
25-Sep-2032	1.701425	11.075500	17.669200	2.531990	38.082258	1.525150	0.016518	0.160865	0.037097	0.003253	0.001505	0.105099	0.000549	0.010635	0.006225	0.001689	0.016889
26-Sep-2032	1.372213	10.933900	17.411800	2.509600	37.636481	1.499590	0.016262	0.158302	0.036875	0.003212	0.001501	0.104724	0.000541	0.010528	0.006140	0.001667	0.016673
27-Sep-2032	1.034444	11.076100	17.671400	2.531410	38.081368	1.525610	0.016521	0.160901	0.037081	0.003255	0.001504	0.105114	0.000550	0.010635	0.006226	0.001689	0.016889
28-Sep-2032	0.889051	11.443800	18.342000	2.587730	39.231441	1.592890	0.017193	0.167620	0.037612	0.003367	0.001512	0.106197	0.000572	0.010911	0.006450	0.001745	0.017445
29-Sep-2032	0.213705	11.115900	17.758900	2.538120	38.208380	1.535480	0.016609	0.161791	0.036979	0.003274	0.001503	0.105059	0.000553	0.010624	0.006248	0.001693	0.016934
30-Sep-2032	0.011756	11.115000	17.746400	2.537630	38.204115	1.533580	0.016597	0.161666	0.036981	0.003272	0.001503	0.105268	0.000552	0.010652	0.006249	0.001694	0.016942
1-Oct-2032	0.241582	10.950900	17.446300	2.513090	37.693302	1.503460	0.016296	0.158657	0.036719	0.003223	0.001499	0.104875	0.000542	0.010528	0.006149	0.001669	0.016691
2-Oct-2032	0.260648	10.929100	17.406500	2.509800	37.625319	1.499490	0.016257	0.158260	0.036683	0.003217	0.001499	0.104825	0.000541	0.010511	0.006136	0.001666	0.016658
3-Oct-2032	0.075589	10.779700	17.134900	2.486580	37.156647	1.472430	0.015986	0.155552	0.036461	0.003173	0.001496	0.104435	0.000532	0.010398	0.006046	0.001643	0.016431
4-Oct-2032	0.055445	10.740800	17.063300	2.480540	37.034641	1.465230	0.015914	0.154837	0.036408	0.003162	0.001495	0.104355	0.000529	0.010370	0.006022	0.001637	0.016372
5-Oct-2032	0.089712	10.721800	17.028500	2.477610	36.975133	1.461780	0.015880	0.154492	0.036463	0.003156	0.001496	0.104284	0.000528	0.010356	0.006011	0.001634	0.016343
6-Oct-2032	0.157612	10.711000	17.008800	2.475850	36.940917	1.459800	0.015860	0.154295	0.036426	0.003153	0.001495	0.104243	0.000528	0.010349	0.006005	0.001633	0.016327
7-Oct-2032	0.215662	10.694200	16.978300	2.473070	36.887520	1.456770	0.015830	0.153994	0.036384	0.003148	0.001494	0.104189	0.000527	0.010337	0.005995	0.001630	0.016302
8-Oct-2032	0.227887	10.672500	16.939200	2.469370	36.818098	1.452910	0.015791	0.153609	0.036358	0.003141	0.001493	0.104123	0.000525	0.010322	0.005982	0.001627	0.016270
9-Oct-2032	0.081405	10.637600	16.876400	2.463560	36.707027	1.446820	0.015730	0.152997	0.036340	0.003132	0.001492	0.104065	0.000523	0.010295	0.005961	0.001622	0.016216
10-Oct-2032	0.049938	10.640400	16.881300	2.464060	36.716078	1.447280	0.015734	0.153043	0.036305	0.003133	0.001492	0.104035	0.000523	0.010297	0.005963	0.001622	0.016221
11-Oct-2032	0.016747	10.598100	16.803900	2.457180	36.582123	1.439550	0.015657	0.152277	0.036252	0.003120	0.001490	0.103917	0.000521	0.010268	0.005937	0.001616	0.016158
12-Oct-2032	0.026568	10.576400	16.765600	2.453540	36.512949	1.435990	0.015620	0.151912	0.036239	0.003116	0.001490	0.103898	0.000520	0.010248	0.005925	0.001612	0.016122
13-Oct-2032	0.064887	10.556900	16.730200	2.450260	36.450750	1.432490	0.015585	0.151564	0.036168	0.003110	0.001488	0.103840	0.000518	0.010235	0.005913	0.001609	0.016093
14-Oct-2032	0.060472	10.544500	16.707700	2.448200	36.411304	1.430300	0.015563	0.151343	0.036134	0.003106	0.001488	0.103814	0.000518	0.010226	0.005906	0.001607	0.016075
15-Oct-2032	0.070357	10.547700	16.713100	2.448770	36.421642	1.430770	0.015568	0.151393	0.036140	0.003107	0.001488	0.103802	0.000518	0.010229	0.005908	0.001608	0.016080
16-Oct-2032	0.073712	10.554200	16.722500	2.450600	36.445408	1.431490	0.015577	0.151473	0.036155	0.003109	0.001489	0.103942	0.000518	0.010236	0.005911	0.001609	0.016089
17-Oct-2032	0.076605	10.638000	16.852300	2.471670	36.741423	1.442280	0.015696	0.152630	0.036473	0.003136	0.001503	0.105130	0.000522	0.010320	0.005958	0.001622	0.016217
18-Oct-2032	0.078734	10.739400	17.006500	2.496770	37.097981	1.455000	0.015838	0.153996	0.036804	0.003168	0.001519	0.106154	0.000527	0.010422	0.006013	0.001637	0.016368
19-Oct-2032	0.080773	10.790700	17.091600	2.507410	37.269892	1.462610	0.015919	0.154787	0.036971	0.003182	0.001524	0.106495	0.000530	0.010469	0.006042	0.001645	0.016447
20-Oct-2032	0.082895	10.850900	17.187000	2.521330	37.477534	1.470780	0.016007	0.155651	0.037181	0.003199	0.001533	0.107076	0.000532	0.010527	0.006076	0.001654	0.016539
21-Oct-2032	0.084242	10.876200	17.226800	2.527290	37.565252	1.474130	0.016044	0.156009	0.037278	0.003206	0.001537	0.107325	0.000534	0.010552	0.006090	0.001658	0.016578
22-Oct-2032	0.084598	10.898600	17.262700	2.532300	37.641816	1.477220	0.016078	0.156335	0.037362	0.003212	0.001540	0.107514	0.000535	0.010574	0.006103	0.001661	0.016613

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Oct-2032	0.085521	10.902200	17.269300	2.532840	37.653029	1.477850	0.016084	0.156399	0.037377	0.003213	0.001540	0.107506	0.000535	0.010577	0.006105	0.001662	0.016619
24-Oct-2032	0.086290	10.933500	17.317700	2.540500	37.762729	1.481880	0.016129	0.156831	0.037490	0.003222	0.001546	0.108012	0.000537	0.010609	0.006123	0.001667	0.016667
25-Oct-2032	0.086942	10.977400	17.388100	2.550770	37.914639	1.488000	0.016195	0.157474	0.037643	0.003235	0.001552	0.108474	0.000539	0.010652	0.006147	0.001673	0.016734
26-Oct-2032	0.087153	11.027000	17.465400	2.562280	38.085888	1.494490	0.016266	0.158167	0.037813	0.003250	0.001558	0.108874	0.000541	0.010700	0.006175	0.001681	0.016809
27-Oct-2032	0.087765	11.066900	17.529300	2.571350	38.222869	1.500010	0.016326	0.158748	0.037948	0.003261	0.001564	0.109293	0.000543	0.010738	0.006197	0.001687	0.016870
28-Oct-2032	0.088040	11.093800	17.571100	2.578030	38.317546	1.503520	0.016365	0.159123	0.038043	0.003270	0.001570	0.109726	0.000544	0.010765	0.006212	0.001691	0.016911
29-Oct-2032	0.088232	11.128300	17.625300	2.586060	38.436760	1.508110	0.016415	0.159611	0.038163	0.003280	0.001575	0.110035	0.000546	0.010799	0.006231	0.001696	0.016963
30-Oct-2032	0.087591	11.158500	17.674700	2.592520	38.538772	1.512500	0.016462	0.160068	0.038258	0.003288	0.001576	0.110109	0.000548	0.010826	0.006249	0.001701	0.017010
31-Oct-2032	0.087209	11.208200	17.754200	2.603840	38.709489	1.519370	0.016536	0.160792	0.038425	0.003303	0.001583	0.110513	0.000550	0.010874	0.006277	0.001709	0.017086
1-Nov-2032	0.087300	11.248200	17.818200	2.612970	38.846966	1.524890	0.016596	0.161374	0.038558	0.003314	0.001588	0.110888	0.000552	0.010912	0.006299	0.001715	0.017147
2-Nov-2032	0.087470	11.299500	17.899500	2.624910	39.024231	1.531850	0.016671	0.162111	0.038734	0.003330	0.001596	0.111396	0.000555	0.010962	0.006328	0.001722	0.017225
3-Nov-2032	0.087323	11.345800	17.972800	2.635690	39.184234	1.538130	0.016740	0.162775	0.038893	0.003343	0.001602	0.111861	0.000557	0.011007	0.006354	0.001730	0.017295
4-Nov-2032	0.086411	11.317600	17.923300	2.630630	39.092982	1.533470	0.016692	0.162301	0.038812	0.003337	0.001600	0.111811	0.000555	0.010983	0.006337	0.001725	0.017251
5-Nov-2032	0.086084	11.341600	17.960400	2.636560	39.177329	1.536580	0.016726	0.162632	0.038890	0.003344	0.001604	0.112057	0.000556	0.011007	0.006350	0.001729	0.017287
6-Nov-2032	0.085773	11.374600	18.014000	2.643780	39.289462	1.541300	0.016777	0.163126	0.038997	0.003354	0.001608	0.112327	0.000558	0.011038	0.006369	0.001734	0.017338
7-Nov-2032	0.085711	11.411800	18.073900	2.652100	39.416612	1.546540	0.016833	0.163675	0.039121	0.003364	0.001613	0.112654	0.000560	0.011073	0.006390	0.001739	0.017395
8-Nov-2032	0.085704	11.452300	18.138600	2.661330	39.555750	1.552100	0.016893	0.164263	0.039258	0.003376	0.001618	0.113031	0.000562	0.011112	0.006413	0.001746	0.017456
9-Nov-2032	0.085869	11.494200	18.205300	2.670990	39.700154	1.557830	0.016955	0.164868	0.039401	0.003388	0.001624	0.113432	0.000564	0.011153	0.006436	0.001752	0.017521
10-Nov-2032	0.086136	11.534800	18.269700	2.680420	39.840365	1.563330	0.017015	0.165451	0.039541	0.003400	0.001630	0.113832	0.000566	0.011192	0.006459	0.001758	0.017583
11-Nov-2032	0.086578	11.579900	18.341000	2.690930	39.996260	1.569420	0.017082	0.166096	0.039696	0.003414	0.001636	0.114281	0.000568	0.011236	0.006484	0.001765	0.017651
12-Nov-2032	0.086816	11.620300	18.404300	2.700540	40.136713	1.574790	0.017140	0.166666	0.039836	0.003426	0.001642	0.114709	0.000570	0.011275	0.006507	0.001771	0.017713
13-Nov-2032	0.086915	11.642300	18.437700	2.706110	40.214584	1.577530	0.017171	0.166961	0.039913	0.003433	0.001646	0.114988	0.000571	0.011298	0.006519	0.001775	0.017745
14-Nov-2032	0.086879	11.670300	18.482000	2.712620	40.311308	1.581320	0.017212	0.167363	0.040007	0.003441	0.001650	0.115267	0.000573	0.011325	0.006535	0.001779	0.017788
15-Nov-2032	0.086802	11.738800	18.590700	2.728470	40.547623	1.590650	0.017314	0.168349	0.040241	0.003461	0.001659	0.115935	0.000576	0.011391	0.006573	0.001789	0.017892
16-Nov-2032	0.086758	11.801800	18.690600	2.743070	40.765057	1.599200	0.017407	0.169254	0.040456	0.003480	0.001668	0.116552	0.000579	0.011452	0.006608	0.001799	0.017989
17-Nov-2032	0.086751	11.873700	18.804700	2.759700	41.013074	1.608980	0.017513	0.170288	0.040703	0.003501	0.001678	0.117251	0.000583	0.011522	0.006649	0.001810	0.018098
18-Nov-2032	0.086807	11.945100	18.918100	2.776210	41.259347	1.618700	0.017619	0.171316	0.040947	0.003522	0.001688	0.117944	0.000586	0.011591	0.006689	0.001821	0.018207
19-Nov-2032	0.086832	12.019300	19.035300	2.793540	41.515990	1.628710	0.017728	0.172376	0.041202	0.003544	0.001699	0.118687	0.000590	0.011663	0.006730	0.001832	0.018320
20-Nov-2032	0.086835	12.112000	19.182000	2.815180	41.836575	1.641240	0.017864	0.173703	0.041521	0.003571	0.001712	0.119614	0.000594	0.011753	0.006782	0.001846	0.018462
21-Nov-2032	0.086801	12.199900	19.320800	2.835750	42.140769	1.653080	0.017993	0.174958	0.041824	0.003597	0.001725	0.120500	0.000599	0.011839	0.006831	0.001860	0.018595
22-Nov-2032	0.086960	12.321200	19.512500	2.864050	42.560194	1.669450	0.018172	0.176692	0.042241	0.003633	0.001742	0.121712	0.000604	0.011957	0.006899	0.001878	0.018780
23-Nov-2032	0.087157	12.363600	19.576900	2.874740	42.710089	1.674740	0.018231	0.177262	0.042394	0.003647	0.001749	0.122240	0.000606	0.012000	0.006922	0.001884	0.018844
24-Nov-2032	0.087177	12.396900	19.626800	2.883440	42.829065	1.678750	0.018276	0.177697	0.042518	0.003658	0.001755	0.122692	0.000608	0.012034	0.006940	0.001889	0.018894
25-Nov-2032	0.087063	12.451700	19.712700	2.896450	43.019476	1.686030	0.018356	0.178471	0.042708	0.003674	0.001763	0.123269	0.000611	0.012088	0.006971	0.001898	0.018977
26-Nov-2032	0.087004	12.513500	19.810100	2.910990	43.233666	1.694310	0.018446	0.179350	0.042922	0.003693	0.001772	0.123902	0.000614	0.012149	0.007005	0.001907	0.019071
27-Nov-2032	0.087011	12.534300	19.844400	2.915400	43.303764	1.697360	0.018479	0.179668	0.042988	0.003698	0.001774	0.124053	0.000615	0.012168	0.007017	0.001910	0.019103
28-Nov-2032	0.086988	12.578900	19.915300	2.925650	43.457340	1.703470	0.018545	0.180312	0.043140	0.003711	0.001781	0.124479	0.000617	0.012211	0.007042	0.001917	0.019171
29-Nov-2032	0.086945	12.626600	19.991000	2.936700	43.621951	1.709950	0.018616	0.180998	0.043303	0.003725	0.001787	0.124945	0.000619	0.012257	0.007069	0.001924	0.019244
30-Nov-2032	0.087008	12.679400	20.074800	2.948910	43.804073	1.717140	0.018694	0.181758	0.043484	0.003741	0.001795	0.125459	0.000622	0.012308	0.007099	0.001932	0.019325
1-Dec-2032	0.086977	12.721400	20.141400	2.958620	43.948933	1.722850	0.018756	0.182362	0.043627	0.003753	0.001801	0.125867	0.000624	0.012349	0.007122	0.001939	0.019389
2-Dec-2032	0.086893	12.768200	20.214900	2.969680	44.111338	1.729090	0.018824	0.183024	0.043789	0.003767	0.001807	0.126354	0.000626	0.012395	0.007148	0.001946	0.019460
3-Dec-2032	0.086865	12.790200	20.249000	2.975020	44.188262	1.731950	0.018856	0.183330	0.043865	0.003774	0.001811	0.126601	0.000627	0.012416	0.007161	0.001949	0.019493
4-Dec-2032	0.086833	12.834800	20.320300	2.985210	44.341590	1.738100	0.018922	0.183978	0.044016	0.003787	0.001817	0.127019	0.000629	0.012459	0.007186	0.001956	0.019561
5-Dec-2032	0.086818	12.870500	20.377500	2.993350	44.464254	1.743040	0.018976	0.184499	0.044137	0.003797	0.001822	0.127349	0.000631	0.012494	0.007206	0.001962	0.019616
6-Dec-2032	0.086814	12.903200	20.429700	3.000800	44.576585	1.747540	0.019024	0.184974	0.044248	0.003807	0.001826	0.127654	0.000633	0.012525	0.007224	0.001967	0.019666
7-Dec-2032	0.086843	12.933300	20.477600	3.007690	44.680118	1.751670	0.019069	0.185409	0.044350	0.003815	0.001830	0.127938	0.000634	0.012554	0.007241	0.001971	0.019712
8-Dec-2032	0.086796	12.958400	20.517500	3.013450	44.766512	1.755110	0.019106	0.185772	0.044435	0.003823	0.001834	0.128177	0.000636	0.012578	0.007255	0.001975	0.019750
9-Dec-2032	0.086773	12.985400	20.560200	3.019780	44.859998	1.758740	0.019146	0.186157	0.044528	0.003831	0.001838	0.128450	0.000637	0.012604	0.007270	0.001979	0.019791
10-Dec-2032	0.086784	12.911000	20.442100	3.002530	44.603186	1.748630	0.019036	0.185088	0.044273	0.003809	0.001827	0.127721	0.000633	0.012532	0.007228	0.001968	0.019678
11-Dec-2032	0.086765	12.958400	20.517300	3.013560	44.766965	1.755070	0.019106	0.185769	0.044436	0.003823	0.001834	0.128190	0.000636	0.012578	0.007255	0.001975	0.019750
12-Dec-2032	0.086748	13.018300	20.612200	3.027490	44.973899	1.763180	0.019194	0.186628	0.044641	0.003841	0.001842	0.128782	0.000638	0.012636	0.007289	0.001984	0.019841
13-Dec-2032	0.086760	13.080000	20.709800	3.041820	45.186975	1.771530	0.019285	0.187512	0.044852	0.003859	0.001851	0.129391	0.000642	0.012696	0.007323	0.001994	0.019935

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Dec-2032	0.086730	13.136200	20.798900	3.054860	45.381005	1.779160	0.019368	0.188319	0.045045	0.003875	0.001859	0.129943	0.000644	0.012751	0.007355	0.002002	0.020021
15-Dec-2032	0.086711	13.193900	20.890300	3.068310	45.580469	1.786970	0.019453	0.189146	0.045243	0.003892	0.001867	0.130518	0.000647	0.012807	0.007387	0.002011	0.020109
16-Dec-2032	0.086706	13.248100	20.975900	3.080980	45.767981	1.794270	0.019533	0.189920	0.045429	0.003909	0.001875	0.131063	0.000650	0.012860	0.007417	0.002019	0.020191
17-Dec-2032	0.086692	13.289500	21.041400	3.090610	45.911013	1.799880	0.019594	0.190513	0.045571	0.003921	0.001881	0.131473	0.000652	0.012900	0.007440	0.002025	0.020255
18-Dec-2032	0.086681	13.341000	21.122900	3.102590	46.088943	1.806860	0.019670	0.191252	0.045748	0.003936	0.001888	0.131983	0.000654	0.012950	0.007469	0.002033	0.020333
19-Dec-2032	0.086678	13.398200	21.213500	3.115890	46.286540	1.814600	0.019754	0.192072	0.045944	0.003953	0.001896	0.132548	0.000657	0.013005	0.007501	0.002042	0.020420
20-Dec-2032	0.086648	13.378000	21.181500	3.111210	46.216829	1.811860	0.019725	0.191782	0.045874	0.003947	0.001893	0.132350	0.000656	0.012986	0.007490	0.002039	0.020389
21-Dec-2032	0.086634	13.435600	21.272500	3.124620	46.415878	1.819640	0.019809	0.192605	0.046072	0.003964	0.001901	0.132924	0.000659	0.013042	0.007522	0.002048	0.020477
22-Dec-2032	0.086646	13.479300	21.341600	3.134800	46.566919	1.825550	0.019874	0.193231	0.046222	0.003977	0.001908	0.133358	0.000661	0.013084	0.007547	0.002054	0.020544
23-Dec-2032	0.086617	13.534500	21.429000	3.147660	46.757710	1.833020	0.019955	0.194022	0.046411	0.003993	0.001915	0.133908	0.000664	0.013138	0.007577	0.002063	0.020628
24-Dec-2032	0.086610	13.594700	21.524000	3.161750	46.966052	1.841120	0.020043	0.194880	0.046618	0.004011	0.001924	0.134515	0.000667	0.013196	0.007611	0.002072	0.020719
25-Dec-2032	0.086612	13.656200	21.621500	3.176030	47.178423	1.849460	0.020134	0.195763	0.046829	0.004029	0.001933	0.135121	0.000670	0.013256	0.007646	0.002081	0.020813
26-Dec-2032	0.086596	13.718800	21.720800	3.190570	47.394611	1.857970	0.020227	0.196663	0.047043	0.004048	0.001942	0.135736	0.000673	0.013317	0.007681	0.002091	0.020909
27-Dec-2032	0.086590	13.760600	21.787000	3.200270	47.538930	1.863640	0.020288	0.197263	0.047187	0.004060	0.001948	0.136147	0.000675	0.013357	0.007704	0.002097	0.020972
28-Dec-2032	0.086590	13.795900	21.842800	3.208490	47.660924	1.868410	0.020340	0.197768	0.047308	0.004070	0.001953	0.136499	0.000677	0.013391	0.007724	0.002103	0.021026
29-Dec-2032	0.086541	13.882100	21.979200	3.228560	47.958814	1.880060	0.020467	0.199002	0.047603	0.004096	0.001965	0.137355	0.000681	0.013475	0.007772	0.002116	0.021157
30-Dec-2032	0.086539	13.950800	22.087700	3.244620	48.196493	1.889320	0.020568	0.199983	0.047839	0.004116	0.001975	0.138045	0.000684	0.013542	0.007810	0.002126	0.021262
31-Dec-2032	0.086532	14.028400	22.210700	3.262670	48.464590	1.899850	0.020683	0.201097	0.048105	0.004139	0.001986	0.138813	0.000688	0.013617	0.007854	0.002138	0.021380
1-Jan-2033	0.086503	14.118100	22.352600	3.283490	48.774308	1.912000	0.020815	0.202383	0.048412	0.004165	0.001998	0.139697	0.000692	0.013704	0.007904	0.002152	0.021517
2-Jan-2033	0.086496	14.213200	22.503300	3.305620	49.102904	1.924890	0.020955	0.203747	0.048739	0.004194	0.002012	0.140638	0.000697	0.013797	0.007957	0.002166	0.021662
3-Jan-2033	0.086490	14.241200	22.547500	3.312140	49.199669	1.928660	0.020996	0.204146	0.048834	0.004202	0.002016	0.140918	0.000698	0.013824	0.007973	0.002170	0.021705
4-Jan-2033	0.086472	14.280000	22.608900	3.321210	49.333903	1.933900	0.021053	0.204702	0.048968	0.004213	0.002021	0.141307	0.000700	0.013862	0.007995	0.002176	0.021764
5-Jan-2033	0.086448	14.337200	22.699200	3.334580	49.531789	1.941610	0.021137	0.205519	0.049164	0.004230	0.002029	0.141882	0.000703	0.013917	0.008027	0.002185	0.021851
6-Jan-2033	0.086435	14.368200	22.748200	3.341800	49.638928	1.945800	0.021183	0.205962	0.049270	0.004239	0.002034	0.142191	0.000705	0.013947	0.008044	0.002190	0.021898
7-Jan-2033	0.086428	14.417400	22.826200	3.353210	49.808767	1.952480	0.021256	0.206668	0.049439	0.004254	0.002041	0.142673	0.000707	0.013995	0.008072	0.002197	0.021973
8-Jan-2033	0.086402	14.477500	22.921300	3.367240	50.016612	1.960610	0.021344	0.207529	0.049645	0.004272	0.002049	0.143273	0.000710	0.014054	0.008105	0.002206	0.022065
9-Jan-2033	0.086397	14.509700	22.972100	3.374760	50.127983	1.964940	0.021392	0.207989	0.049756	0.004281	0.002054	0.143597	0.000712	0.014085	0.008123	0.002211	0.022114
10-Jan-2033	0.086397	14.556700	23.046600	3.385660	50.290228	1.971320	0.021461	0.208663	0.049916	0.004295	0.002060	0.144059	0.000714	0.014130	0.008150	0.002219	0.022185
11-Jan-2033	0.086377	14.619100	23.145400	3.400190	50.505875	1.979770	0.021553	0.209558	0.050130	0.004314	0.002069	0.144678	0.000717	0.014191	0.008185	0.002228	0.022280
12-Jan-2033	0.086369	14.446100	22.871400	3.360030	49.908515	1.956310	0.021298	0.207076	0.049537	0.004263	0.002045	0.142975	0.000708	0.014023	0.008088	0.002202	0.022017
13-Jan-2033	0.086366	14.537800	23.016000	3.381530	50.226027	1.968640	0.021432	0.208383	0.049853	0.004290	0.002058	0.143905	0.000713	0.014113	0.008139	0.002216	0.022156
14-Jan-2033	0.086349	14.575100	23.075000	3.390170	50.354745	1.973690	0.021487	0.208917	0.049981	0.004301	0.002063	0.144272	0.000715	0.014149	0.008160	0.002221	0.022213
15-Jan-2033	0.086338	14.606500	23.125200	3.397390	50.462883	1.978010	0.021534	0.209373	0.050088	0.004310	0.002068	0.144570	0.000716	0.014179	0.008177	0.002226	0.022261
16-Jan-2033	0.086333	14.688200	23.254000	3.416510	50.745624	1.988990	0.021654	0.210537	0.050369	0.004334	0.002079	0.145395	0.000720	0.014259	0.008223	0.002239	0.022385
17-Jan-2033	0.086324	14.743900	23.342800	3.429250	50.937170	1.996650	0.021737	0.211345	0.050558	0.004350	0.002087	0.145918	0.000723	0.014312	0.008254	0.002247	0.022471
18-Jan-2033	0.086299	14.850200	23.511300	3.453980	51.304439	2.011060	0.021894	0.212870	0.050923	0.004382	0.002102	0.146969	0.000728	0.014415	0.008314	0.002263	0.022633
19-Jan-2033	0.086293	14.968300	23.698100	3.481440	51.712415	2.027040	0.022068	0.214562	0.051328	0.004417	0.002119	0.148138	0.000734	0.014530	0.008380	0.002281	0.022813
20-Jan-2033	0.086298	15.088900	23.889200	3.509510	52.129145	2.043380	0.022246	0.216292	0.051741	0.004452	0.002136	0.149333	0.000740	0.014647	0.008448	0.002300	0.022996
21-Jan-2033	0.086268	15.295400	24.216200	3.557500	52.842399	2.071360	0.022550	0.219253	0.052449	0.004513	0.002165	0.151372	0.000750	0.014848	0.008563	0.002331	0.023311
22-Jan-2033	0.086261	15.505600	24.548700	3.606430	53.568762	2.099790	0.022860	0.222262	0.053170	0.004575	0.002195	0.153459	0.000760	0.015052	0.008681	0.002363	0.023631
23-Jan-2033	0.086267	15.700800	24.857800	3.651870	54.243298	2.126230	0.023147	0.225061	0.053840	0.004633	0.002223	0.155394	0.000770	0.015241	0.008790	0.002393	0.023929
24-Jan-2033	0.086242	15.866000	25.119400	3.690280	54.813975	2.148600	0.023391	0.227430	0.054406	0.004682	0.002246	0.157028	0.000778	0.015402	0.008883	0.002418	0.024181
25-Jan-2033	0.086221	15.930400	25.221200	3.705270	55.036511	2.157310	0.023486	0.228351	0.054627	0.004701	0.002255	0.157668	0.000781	0.015464	0.008919	0.002428	0.024279
26-Jan-2033	0.086203	16.005400	25.339900	3.722720	55.295645	2.167450	0.023596	0.229425	0.054884	0.004723	0.002266	0.158411	0.000785	0.015537	0.008961	0.002439	0.024393
27-Jan-2033	0.086195	16.091600	25.476500	3.742780	55.593493	2.179140	0.023724	0.230663	0.055180	0.004748	0.002278	0.159264	0.000789	0.015621	0.009009	0.002452	0.024525
28-Jan-2033	0.086189	16.200500	25.648900	3.768110	55.969725	2.193880	0.023884	0.232223	0.055553	0.004780	0.002293	0.160342	0.000794	0.015726	0.009070	0.002469	0.024690
29-Jan-2033	0.086186	16.328100	25.850800	3.797790	56.410565	2.211150	0.024072	0.234051	0.055991	0.004818	0.002311	0.161606	0.000801	0.015850	0.009141	0.002488	0.024885
30-Jan-2033	0.086179	16.549300	26.201000	3.849250	57.174814	2.241110	0.024398	0.237222	0.056750	0.004883	0.002343	0.163797	0.000812	0.016065	0.009265	0.002522	0.025222
31-Jan-2033	0.086167	16.627300	26.324400	3.867390	57.444280	2.251660	0.024513	0.238338	0.057017	0.004906	0.002354	0.164570	0.000815	0.016141	0.009309	0.002534	0.025341
1-Feb-2033	0.086157	16.752300	26.522400	3.896490	57.876239	2.268590	0.024697	0.240131	0.057446	0.004943	0.002371	0.165808	0.000822	0.016262	0.009379	0.002553	0.025531
2-Feb-2033	0.086149	16.913100	26.776900	3.933880	58.431729	2.290370	0.024934	0.242436	0.057997	0.004991	0.002394	0.167399	0.000829	0.016418	0.009469	0.002578	0.025776
3-Feb-2033	0.086141	17.081700	27.043900	3.973080	59.014148	2.313200	0.025183	0.244853	0.058575	0.005040	0.002418	0.169067	0.000838	0.016582	0.009563	0.002603	0.026033

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4-Feb-2033	0.086137	17.186900	27.210500	3.997560	59.377641	2.327450	0.025338	0.246361	0.058936	0.005071	0.002433	0.170108	0.000843	0.016684	0.009622	0.002619	0.026194
5-Feb-2033	0.086135	17.245800	27.303700	4.011250	59.581090	2.335430	0.025425	0.247206	0.059137	0.005089	0.002441	0.170691	0.000846	0.016741	0.009655	0.002628	0.026284
6-Feb-2033	0.086127	17.055600	27.002600	3.967050	58.924145	2.309660	0.025145	0.244479	0.058485	0.005033	0.002414	0.168812	0.000836	0.016556	0.009549	0.002599	0.025994
7-Feb-2033	0.086123	17.195900	27.224700	3.999670	59.408803	2.328670	0.025351	0.246490	0.058966	0.005074	0.002434	0.170200	0.000843	0.016693	0.009627	0.002621	0.026207
8-Feb-2033	0.086116	17.376700	27.511000	4.041720	60.033423	2.353150	0.025618	0.249082	0.059586	0.005128	0.002460	0.171989	0.000852	0.016868	0.009728	0.002648	0.026483
9-Feb-2033	0.086108	17.596100	27.858200	4.092720	60.791283	2.382860	0.025941	0.252226	0.060338	0.005192	0.002491	0.174159	0.000863	0.017081	0.009851	0.002682	0.026817
10-Feb-2033	0.086101	17.838800	28.242500	4.149170	61.629766	2.415730	0.026299	0.255705	0.061170	0.005264	0.002525	0.176561	0.000875	0.017317	0.009987	0.002719	0.027187
11-Feb-2033	0.086097	18.104500	28.663200	4.210980	62.547752	2.451710	0.026691	0.259514	0.062081	0.005342	0.002563	0.179190	0.000888	0.017575	0.010136	0.002759	0.027592
12-Feb-2033	0.086094	18.051200	28.578800	4.198560	62.363516	2.444500	0.026612	0.258750	0.061898	0.005327	0.002555	0.178662	0.000885	0.017523	0.010106	0.002751	0.027511
13-Feb-2033	0.086093	18.326400	29.014600	4.262580	63.314325	2.481770	0.027018	0.262696	0.062842	0.005408	0.002594	0.181385	0.000899	0.017790	0.010260	0.002793	0.027930
14-Feb-2033	0.086092	18.603500	29.453300	4.327030	64.271649	2.519300	0.027427	0.266668	0.063792	0.005489	0.002633	0.184128	0.000912	0.018059	0.010415	0.002835	0.028353
15-Feb-2033	0.086093	18.893400	29.912200	4.394450	65.273165	2.558560	0.027854	0.270823	0.064786	0.005575	0.002674	0.186997	0.000927	0.018340	0.010578	0.002879	0.028794
16-Feb-2033	0.086094	19.197200	30.393200	4.465110	66.322731	2.599690	0.028302	0.275178	0.065828	0.005665	0.002717	0.190004	0.000941	0.018635	0.010748	0.002926	0.029257
17-Feb-2033	0.086097	19.507400	30.884300	4.537260	67.394414	2.641700	0.028759	0.279624	0.066892	0.005756	0.002761	0.193074	0.000957	0.018936	0.010921	0.002973	0.029730
18-Feb-2033	0.086098	19.818300	31.376600	4.609590	68.468587	2.683810	0.029218	0.284082	0.067958	0.005848	0.002805	0.196152	0.000972	0.019238	0.011095	0.003020	0.030204
19-Feb-2033	0.086098	20.126000	31.863700	4.681150	69.531598	2.725470	0.029671	0.288492	0.069013	0.005939	0.002849	0.199197	0.000987	0.019537	0.011268	0.003067	0.030673
20-Feb-2033	0.086099	20.430900	32.346500	4.752070	70.584982	2.766770	0.030121	0.292862	0.070059	0.006029	0.002892	0.202215	0.001002	0.019833	0.011438	0.003114	0.031138
21-Feb-2033	0.086099	20.734300	32.826800	4.822640	71.633179	2.807850	0.030568	0.297211	0.071099	0.006118	0.002935	0.205218	0.001017	0.020127	0.011608	0.003160	0.031600
22-Feb-2033	0.086101	21.036500	33.305200	4.892930	72.677226	2.848770	0.031014	0.301543	0.072135	0.006207	0.002978	0.208209	0.001032	0.020421	0.011777	0.003206	0.032061
23-Feb-2033	0.086102	21.337700	33.782100	4.962990	73.717830	2.889570	0.031458	0.305861	0.073168	0.006296	0.003020	0.211190	0.001046	0.020713	0.011946	0.003252	0.032520
24-Feb-2033	0.086102	21.638400	34.258200	5.032940	74.756732	2.930290	0.031901	0.310171	0.074199	0.006385	0.003063	0.214166	0.001061	0.021005	0.012114	0.003298	0.032978
25-Feb-2033	0.086103	21.938000	34.732500	5.102610	75.791734	2.970850	0.032343	0.314465	0.075226	0.006473	0.003105	0.217131	0.001076	0.021296	0.012282	0.003343	0.033435
26-Feb-2033	0.086100	19.202500	30.401900	4.466250	66.340660	2.600470	0.028310	0.275259	0.065844	0.005666	0.002718	0.190044	0.000942	0.018640	0.010751	0.002927	0.029266
27-Feb-2033	0.086101	19.384300	30.689800	4.508540	66.968765	2.625100	0.028578	0.277865	0.066468	0.005720	0.002744	0.191844	0.000951	0.018817	0.010852	0.002954	0.029543
28-Feb-2033	0.086101	19.554800	30.959800	4.548200	67.557823	2.648180	0.028830	0.280309	0.067052	0.005770	0.002768	0.193532	0.000959	0.018982	0.010948	0.002980	0.029803
1-Mar-2033	0.086102	19.725100	31.229300	4.587790	68.146094	2.671240	0.029081	0.282749	0.067636	0.005820	0.002792	0.195216	0.000967	0.019147	0.011043	0.003006	0.030062
2-Mar-2033	0.086102	19.898500	31.503900	4.628140	68.745235	2.694730	0.029336	0.285236	0.068231	0.005872	0.002817	0.196933	0.000976	0.019316	0.011140	0.003033	0.030326
3-Mar-2033	0.086103	20.075200	31.783600	4.669230	69.355664	2.718650	0.029597	0.287768	0.068837	0.005924	0.002842	0.198682	0.000985	0.019487	0.011239	0.003060	0.030596
4-Mar-2033	0.086104	18.550900	29.370000	4.314810	64.089985	2.512170	0.027349	0.265914	0.063612	0.005474	0.002626	0.183609	0.000910	0.018008	0.010386	0.002827	0.028273
5-Mar-2033	0.086104	18.691100	29.591900	4.347410	64.574311	2.531150	0.027556	0.267923	0.064093	0.005515	0.002646	0.184996	0.000917	0.018144	0.010464	0.002849	0.028486
6-Mar-2033	0.086105	18.836300	29.821900	4.381200	65.076023	2.550820	0.027770	0.270005	0.064591	0.005558	0.002666	0.186433	0.000924	0.018285	0.010546	0.002871	0.028708
7-Mar-2033	0.086105	18.986800	30.060100	4.416190	65.595910	2.571200	0.027992	0.272162	0.065107	0.005603	0.002688	0.187923	0.000931	0.018431	0.010630	0.002894	0.028937
8-Mar-2033	0.086105	19.142200	30.306100	4.452330	66.132768	2.592240	0.028221	0.274389	0.065640	0.005648	0.002710	0.189460	0.000939	0.018582	0.010717	0.002917	0.029174
9-Mar-2033	0.086105	19.302300	30.559700	4.489580	66.685934	2.613930	0.028457	0.276685	0.066189	0.005696	0.002732	0.191046	0.000947	0.018737	0.010806	0.002942	0.029418
10-Mar-2033	0.086105	19.472000	30.828300	4.529050	67.272212	2.636900	0.028707	0.279117	0.066771	0.005746	0.002756	0.192725	0.000955	0.018902	0.010901	0.002968	0.029676
11-Mar-2033	0.086105	19.649500	31.109300	4.570330	67.885420	2.660940	0.028969	0.281661	0.067379	0.005798	0.002781	0.194482	0.000964	0.019074	0.011001	0.002995	0.029947
12-Mar-2033	0.086105	19.832600	31.399100	4.612910	68.517966	2.685730	0.029239	0.284285	0.068007	0.005852	0.002807	0.196294	0.000973	0.019252	0.011103	0.003023	0.030226
13-Mar-2033	0.086105	20.021100	31.697600	4.656770	69.169266	2.711260	0.029517	0.286988	0.068654	0.005908	0.002834	0.198160	0.000982	0.019435	0.011209	0.003051	0.030513
14-Mar-2033	0.086105	20.215200	32.005000	4.701920	69.839861	2.737550	0.029803	0.289770	0.069319	0.005965	0.002862	0.200081	0.000991	0.019623	0.011318	0.003081	0.030809
15-Mar-2033	0.086105	20.415300	32.321600	4.748440	70.531080	2.764640	0.030098	0.292637	0.070005	0.006024	0.002890	0.202061	0.001001	0.019818	0.011430	0.003111	0.031114
16-Mar-2033	0.086105	20.621800	32.648600	4.796480	71.244539	2.792610	0.030402	0.295598	0.070713	0.006085	0.002919	0.204105	0.001011	0.020018	0.011545	0.003143	0.031429
17-Mar-2033	0.086105	20.834400	32.985200	4.845930	71.979037	2.821400	0.030716	0.298646	0.071443	0.006148	0.002949	0.206210	0.001022	0.020225	0.011664	0.003175	0.031753
18-Mar-2033	0.086105	21.053300	33.331700	4.896840	72.735277	2.851040	0.031038	0.301783	0.072193	0.006212	0.002980	0.208376	0.001032	0.020437	0.011787	0.003209	0.032086
19-Mar-2033	0.086105	21.278500	33.688300	4.949220	73.513302	2.881530	0.031370	0.305011	0.072965	0.006279	0.003012	0.210605	0.001044	0.020656	0.011913	0.003243	0.032429
20-Mar-2033	0.086105	21.510300	34.055300	5.003150	74.314191	2.912930	0.031712	0.308334	0.073760	0.006347	0.003045	0.212900	0.001055	0.020881	0.012043	0.003278	0.032783
21-Mar-2033	0.086105	21.749500	34.434000	5.058770	75.140516	2.945320	0.032065	0.311762	0.074580	0.006418	0.003079	0.215267	0.001067	0.021113	0.012176	0.003315	0.033147
22-Mar-2033	0.086105	21.995600	34.823600	5.116010	75.990742	2.978640	0.032427	0.315290	0.075424	0.006490	0.003114	0.217702	0.001079	0.021352	0.012314	0.003352	0.033522
23-Mar-2033	0.086105	22.248400	35.223800	5.174810	76.864122	3.012880	0.032800	0.318913	0.076291	0.006565	0.003149	0.220204	0.001091	0.021597	0.012456	0.003391	0.033908
24-Mar-2033	0.086105	22.508300	35.635300	5.235260	77.762026	3.048070	0.033183	0.322639	0.077182	0.006642	0.003186	0.222777	0.001104	0.021849	0.012601	0.003430	0.034304
25-Mar-2033	0.086105	22.775400	36.058300	5.297400	78.684867	3.084250	0.033577	0.326469	0.078098	0.006721	0.003224	0.225421	0.001117	0.022109	0.012751	0.003471	0.034711
26-Mar-2033	0.086105	23.049800	36.492600	5.361210	79.632813	3.121400	0.033982	0.330401	0.079039	0.006801	0.003263	0.228136	0.001130	0.022375	0.012904	0.003513	0.035129
27-Mar-2033	0.086105	23.331500	36.938700	5.426750	80.606112	3.159560	0.034397	0.334440	0.080005	0.006885	0.003303	0.230925	0.001144	0.022649	0.013062	0.003556	0.035558

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Mar-2033	0.086104	23.620100	37.395500	5.493860	81.603105	3.198630	0.034822	0.338576	0.080995	0.006970	0.003344	0.233781	0.001158	0.022929	0.013224	0.003600	0.035998
29-Mar-2033	0.086104	23.915100	37.862600	5.562490	82.622339	3.238590	0.035257	0.342805	0.082007	0.007057	0.003385	0.236701	0.001173	0.023215	0.013389	0.003645	0.036448
30-Mar-2033	0.086104	24.218500	38.343000	5.633060	83.670536	3.279680	0.035705	0.347154	0.083047	0.007146	0.003428	0.239704	0.001188	0.023510	0.013559	0.003691	0.036910
31-Mar-2033	0.086104	24.530900	38.837500	5.705700	84.749730	3.321970	0.036165	0.351631	0.084118	0.007239	0.003472	0.242796	0.001203	0.023813	0.013734	0.003739	0.037386
1-Apr-2033	0.086104	24.850400	39.343400	5.780030	85.853612	3.365250	0.036636	0.356212	0.085214	0.007333	0.003518	0.245959	0.001219	0.024123	0.013913	0.003787	0.037873
2-Apr-2033	0.086104	25.108200	39.751600	5.840000	86.744295	3.400160	0.037016	0.359908	0.086098	0.007409	0.003554	0.248510	0.001231	0.024373	0.014057	0.003827	0.038266
3-Apr-2033	0.086104	25.277800	40.020000	5.879430	87.330159	3.423120	0.037266	0.362338	0.086679	0.007459	0.003578	0.250188	0.001240	0.024538	0.014152	0.003852	0.038525
4-Apr-2033	0.086104	25.400700	40.214600	5.908020	87.754774	3.439760	0.037448	0.364100	0.087101	0.007495	0.003596	0.251405	0.001246	0.024657	0.014221	0.003871	0.038712
5-Apr-2033	0.086104	25.494900	40.363700	5.929930	88.080217	3.452520	0.037586	0.365450	0.087424	0.007523	0.003609	0.252337	0.001250	0.024749	0.014273	0.003886	0.038855
6-Apr-2033	0.086104	25.569200	40.481400	5.947220	88.336944	3.462590	0.037696	0.366515	0.087679	0.007545	0.003619	0.253073	0.001254	0.024821	0.014315	0.003897	0.038969
7-Apr-2033	0.086104	25.629400	40.576700	5.961220	88.544916	3.470740	0.037785	0.367378	0.087885	0.007563	0.003628	0.253669	0.001257	0.024879	0.014349	0.003906	0.039061
8-Apr-2033	0.086104	25.679400	40.655800	5.972840	88.717617	3.477500	0.037858	0.368094	0.088056	0.007577	0.003635	0.254163	0.001259	0.024928	0.014377	0.003914	0.039137
9-Apr-2033	0.086104	25.718100	40.717100	5.981850	88.851354	3.482750	0.037916	0.368650	0.088189	0.007589	0.003641	0.254547	0.001261	0.024965	0.014398	0.003920	0.039196
10-Apr-2033	0.086104	25.751900	40.770600	5.989710	88.968120	3.487320	0.037965	0.369134	0.088305	0.007599	0.003645	0.254881	0.001263	0.024998	0.014417	0.003925	0.039247
11-Apr-2033	0.086104	25.781300	40.817200	5.996550	89.069699	3.491310	0.038009	0.369555	0.088406	0.007607	0.003649	0.255172	0.001264	0.025027	0.014434	0.003929	0.039292
12-Apr-2033	0.086104	25.806500	40.857100	6.002410	89.156755	3.494720	0.038046	0.369917	0.088492	0.007615	0.003653	0.255421	0.001266	0.025051	0.014448	0.003933	0.039330
13-Apr-2033	0.086104	25.828400	40.891700	6.007490	89.232359	3.497680	0.038078	0.370230	0.088567	0.007621	0.003656	0.255638	0.001267	0.025072	0.014460	0.003936	0.039364
14-Apr-2033	0.086104	25.848400	40.923500	6.012160	89.301530	3.500400	0.038108	0.370517	0.088636	0.007627	0.003659	0.255836	0.001268	0.025092	0.014471	0.003939	0.039394
15-Apr-2033	0.086104	25.867500	40.953600	6.016590	89.367465	3.502970	0.038136	0.370790	0.088701	0.007633	0.003662	0.256025	0.001269	0.025110	0.014482	0.003942	0.039423
16-Apr-2033	0.086104	25.885600	40.982400	6.020820	89.430080	3.505440	0.038163	0.371051	0.088764	0.007638	0.003664	0.256205	0.001269	0.025128	0.014492	0.003945	0.039451
17-Apr-2033	0.086104	25.902800	41.009600	6.024810	89.489459	3.507760	0.038188	0.371297	0.088822	0.007643	0.003667	0.256375	0.001270	0.025145	0.014502	0.003948	0.039477
18-Apr-2033	0.086104	25.919000	41.035300	6.028590	89.545477	3.509960	0.038212	0.371530	0.088878	0.007648	0.003669	0.256535	0.001271	0.025160	0.014511	0.003950	0.039502
19-Apr-2033	0.086104	25.934500	41.059800	6.032190	89.599005	3.512060	0.038235	0.371752	0.088931	0.007653	0.003671	0.256689	0.001272	0.025175	0.014519	0.003953	0.039526
20-Apr-2033	0.086104	25.949400	41.083300	6.035640	89.650417	3.514070	0.038256	0.371965	0.088982	0.007657	0.003673	0.256836	0.001273	0.025190	0.014528	0.003955	0.039548
21-Apr-2033	0.086104	25.963600	41.105800	6.038950	89.699505	3.515990	0.038277	0.372168	0.089031	0.007661	0.003675	0.256976	0.001273	0.025204	0.014536	0.003957	0.039570
22-Apr-2033	0.086105	25.977300	41.127500	6.042130	89.746809	3.517850	0.038298	0.372365	0.089078	0.007665	0.003677	0.257112	0.001274	0.025217	0.014543	0.003959	0.039591
23-Apr-2033	0.086105	25.990500	41.148400	6.045210	89.792453	3.519640	0.038317	0.372555	0.089123	0.007669	0.003679	0.257243	0.001275	0.025230	0.014551	0.003961	0.039611
24-Apr-2033	0.086105	26.003400	41.168800	6.048200	89.836977	3.521380	0.038336	0.372738	0.089167	0.007673	0.003681	0.257370	0.001275	0.025242	0.014558	0.003963	0.039630
25-Apr-2033	0.086105	26.015600	41.188200	6.051050	89.879177	3.523040	0.038354	0.372914	0.089209	0.007677	0.003683	0.257491	0.001276	0.025254	0.014565	0.003965	0.039649
26-Apr-2033	0.086105	26.027200	41.206500	6.053730	89.919179	3.524600	0.038371	0.373080	0.089249	0.007680	0.003684	0.257605	0.001276	0.025265	0.014571	0.003967	0.039667
27-Apr-2033	0.086105	26.037800	41.223400	6.056220	89.955901	3.526050	0.038387	0.373233	0.089286	0.007683	0.003686	0.257711	0.001277	0.025276	0.014577	0.003968	0.039683
28-Apr-2033	0.086105	26.047600	41.238800	6.058490	89.989719	3.527370	0.038401	0.373373	0.089319	0.007686	0.003687	0.257808	0.001277	0.025285	0.014583	0.003970	0.039698
29-Apr-2033	0.086105	26.056500	41.252900	6.060560	90.020467	3.528570	0.038414	0.373500	0.089349	0.007689	0.003688	0.257896	0.001278	0.025294	0.014588	0.003971	0.039711
30-Apr-2033	0.086134	26.064200	41.265100	6.062350	90.047065	3.529620	0.038426	0.373611	0.089376	0.007691	0.003690	0.257972	0.001278	0.025301	0.014592	0.003972	0.039723
1-May-2033	0.087213	26.054900	41.250400	6.060190	90.014948	3.528360	0.038412	0.373478	0.089344	0.007688	0.003688	0.257880	0.001278	0.025292	0.014587	0.003971	0.039709
2-May-2033	0.092845	25.838200	40.907200	6.009780	89.266259	3.499010	0.038093	0.370371	0.088601	0.007624	0.003658	0.255735	0.001267	0.025082	0.014466	0.003938	0.039379
3-May-2033	0.099879	25.387600	40.193900	5.904980	87.709545	3.437990	0.037428	0.363912	0.087056	0.007491	0.003594	0.251275	0.001245	0.024644	0.014213	0.003869	0.038692
4-May-2033	0.104178	24.838700	39.324900	5.777310	85.813196	3.363670	0.036619	0.356045	0.085174	0.007329	0.003516	0.245843	0.001218	0.024112	0.013906	0.003786	0.037856
5-May-2033	0.110236	24.253300	38.398100	5.641140	83.790705	3.284390	0.035756	0.347653	0.083166	0.007157	0.003433	0.240048	0.001189	0.023543	0.013578	0.003696	0.036963
6-May-2033	0.117271	23.669300	37.473600	5.505320	81.773150	3.205310	0.034895	0.339283	0.081164	0.006984	0.003351	0.234268	0.001161	0.022976	0.013251	0.003607	0.036073
7-May-2033	0.124281	23.194600	36.722000	5.394900	80.133114	3.141020	0.034195	0.332478	0.079536	0.006844	0.003283	0.229569	0.001137	0.022516	0.012986	0.003535	0.035350
8-May-2033	0.130799	22.791200	36.083200	5.301050	78.739350	3.086390	0.033600	0.326694	0.078152	0.006725	0.003226	0.225576	0.001118	0.022124	0.012760	0.003473	0.034735
9-May-2033	0.136547	22.384200	35.438900	5.206400	77.333303	3.031280	0.033001	0.320861	0.076757	0.006605	0.003169	0.221548	0.001098	0.021729	0.012532	0.003411	0.034115
10-May-2033	0.149200	22.191000	35.133100	5.161470	76.665860	3.005120	0.032716	0.318092	0.076094	0.006548	0.003141	0.219636	0.001088	0.021541	0.012424	0.003382	0.033820
11-May-2033	0.157606	21.794000	34.504500	5.069110	75.294213	2.951350	0.032130	0.312401	0.074733	0.006431	0.003085	0.215705	0.001069	0.021156	0.012201	0.003322	0.033215
12-May-2033	0.171884	21.390100	33.865000	4.975160	73.898789	2.896660	0.031535	0.306611	0.073348	0.006312	0.003028	0.211707	0.001049	0.020764	0.011975	0.003260	0.032600
13-May-2033	0.188784	21.022400	33.282900	4.889630	72.628429	2.846860	0.030993	0.301341	0.072087	0.006203	0.002976	0.208068	0.001031	0.020407	0.011769	0.003204	0.032039
14-May-2033	0.198552	20.736100	32.829700	4.823050	71.639362	2.808100	0.030571	0.297237	0.071105	0.006119	0.002935	0.205234	0.001017	0.020129	0.011609	0.003160	0.031603
15-May-2033	0.199340	19.973200	31.621900	4.645610	69.003702	2.704790	0.029446	0.286303	0.068489	0.005894	0.002827	0.197683	0.000980	0.019388	0.011182	0.003044	0.030440
16-May-2033	0.210618	18.097100	28.651600	4.209220	62.522027	2.450740	0.026680	0.259410	0.062055	0.005340	0.002562	0.179112	0.000888	0.017567	0.010132	0.002758	0.027581
17-May-2033	0.225313	17.934600	28.394400	4.171420	61.960604	2.428740	0.026441	0.257082	0.061498	0.005292	0.002539	0.177504	0.000880	0.017409	0.010041	0.002733	0.027333
18-May-2033	0.226725	17.500600	27.707200	4.070460	60.461152	2.369960	0.025801	0.250859	0.060009	0.005164	0.002477	0.173207	0.000858	0.016988	0.009798	0.002667	0.026672

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19-May-2033	0.233658	17.270000	27.342200	4.016800	59.664372	2.338740	0.025461	0.247555	0.059219	0.005096	0.002445	0.170921	0.000847	0.016764	0.009669	0.002632	0.026320
20-May-2033	0.226676	16.968600	26.865200	3.946710	58.623146	2.297940	0.025017	0.243236	0.058185	0.005007	0.002402	0.167939	0.000832	0.016472	0.009500	0.002586	0.025861
21-May-2033	0.236590	16.594100	26.272200	3.859610	57.329342	2.247220	0.024465	0.237867	0.056901	0.004896	0.002349	0.164232	0.000814	0.016108	0.009290	0.002529	0.025290
22-May-2033	0.248802	16.283300	25.780100	3.787330	56.255625	2.205120	0.024006	0.233412	0.055836	0.004805	0.002305	0.161157	0.000799	0.015807	0.009116	0.002482	0.024817
23-May-2033	0.266984	15.932700	25.225000	3.705820	55.044519	2.157630	0.023489	0.228385	0.054634	0.004701	0.002255	0.157690	0.000781	0.015466	0.008920	0.002428	0.024282
24-May-2033	0.285261	16.204100	25.654000	3.769080	55.982709	2.194280	0.023889	0.232266	0.055567	0.004782	0.002294	0.160394	0.000795	0.015730	0.009072	0.002470	0.024696
25-May-2033	0.301703	15.173700	24.023100	3.529330	52.422510	2.054810	0.022370	0.217502	0.052033	0.004477	0.002148	0.150184	0.000744	0.014730	0.008495	0.002313	0.023125
26-May-2033	0.320275	14.865300	23.534700	3.457620	51.357133	2.013020	0.021915	0.213079	0.050976	0.004386	0.002104	0.147134	0.000729	0.014430	0.008322	0.002266	0.022655
27-May-2033	0.341343	14.564600	23.058600	3.387710	50.318396	1.972300	0.021472	0.208768	0.049945	0.004298	0.002062	0.144160	0.000714	0.014139	0.008154	0.002220	0.022197
28-May-2033	0.379337	14.406300	22.808000	3.350900	49.771537	1.950850	0.021238	0.206499	0.049403	0.004251	0.002039	0.142595	0.000706	0.013985	0.008065	0.002196	0.021956
29-May-2033	0.429187	14.353800	22.724400	3.338800	49.590617	1.943660	0.021160	0.205739	0.049225	0.004235	0.002032	0.142087	0.000704	0.013934	0.008036	0.002188	0.021875
30-May-2033	0.471130	14.198900	22.478300	3.303030	49.056531	1.922540	0.020931	0.203506	0.048697	0.004190	0.002011	0.140588	0.000696	0.013785	0.007949	0.002164	0.021639
31-May-2033	0.503291	14.088900	22.303600	3.277620	48.677222	1.907540	0.020768	0.201921	0.048322	0.004158	0.001995	0.139521	0.000691	0.013678	0.007887	0.002147	0.021471
1-Jun-2033	0.532291	13.992300	22.150400	3.255210	48.343728	1.894430	0.020625	0.200533	0.047992	0.004129	0.001982	0.138572	0.000686	0.013585	0.007833	0.002132	0.021324
2-Jun-2033	0.584598	13.873400	21.962100	3.227630	47.933260	1.878280	0.020450	0.198825	0.047588	0.004094	0.001965	0.137397	0.000680	0.013470	0.007767	0.002114	0.021143
3-Jun-2033	0.622020	13.686500	21.665600	3.184300	47.288138	1.852860	0.020173	0.196136	0.046955	0.004039	0.001939	0.135559	0.000671	0.013289	0.007662	0.002086	0.020858
4-Jun-2033	0.798523	13.564000	21.470100	3.156260	46.866787	1.835970	0.019990	0.194354	0.046556	0.004002	0.001922	0.134385	0.000665	0.013172	0.007593	0.002067	0.020672
5-Jun-2033	0.904470	13.336400	21.103600	3.105100	46.087793	1.803990	0.019645	0.190990	0.045856	0.003934	0.001893	0.132290	0.000654	0.012958	0.007465	0.002033	0.020326
6-Jun-2033	1.007900	13.170700	20.834500	3.068560	45.523568	1.780210	0.019391	0.188500	0.045380	0.003884	0.001873	0.130812	0.000645	0.012805	0.007371	0.002008	0.020076
7-Jun-2033	1.118955	13.029700	20.601000	3.038820	45.049022	1.759110	0.019168	0.186327	0.045049	0.003839	0.001859	0.129637	0.000638	0.012681	0.007290	0.001987	0.019866
8-Jun-2033	1.249217	12.885500	20.365700	3.007250	44.558949	1.738190	0.018945	0.184140	0.044646	0.003795	0.001842	0.128376	0.000630	0.012550	0.007209	0.001965	0.019648
9-Jun-2033	1.410701	12.691700	20.046600	2.965690	43.903886	1.709560	0.018641	0.181169	0.044155	0.003736	0.001821	0.126764	0.000620	0.012377	0.007098	0.001936	0.019357
10-Jun-2033	1.565772	12.496300	19.724700	2.923830	43.243593	1.680620	0.018335	0.178164	0.043659	0.003676	0.001800	0.125133	0.000610	0.012203	0.006987	0.001906	0.019063
11-Jun-2033	1.712162	12.301900	19.402700	2.882600	42.588391	1.651450	0.018026	0.175133	0.043180	0.003615	0.001780	0.123549	0.000600	0.012032	0.006876	0.001877	0.018770
12-Jun-2033	1.829631	12.130300	19.117200	2.846590	42.011617	1.625420	0.017751	0.172435	0.042784	0.003562	0.001763	0.122180	0.000590	0.011882	0.006778	0.001851	0.018513
13-Jun-2033	1.913243	11.894400	18.718800	2.798660	41.225199	1.588420	0.017362	0.168593	0.042359	0.003487	0.001743	0.120448	0.000578	0.011685	0.006643	0.001816	0.018159
14-Jun-2033	1.977250	11.666500	18.331900	2.752870	40.467569	1.552220	0.016983	0.164842	0.042040	0.003415	0.001728	0.118895	0.000565	0.011495	0.006511	0.001782	0.017817
15-Jun-2033	2.023442	11.448900	17.962200	2.709050	39.743771	1.517730	0.016621	0.161262	0.041664	0.003346	0.001710	0.117376	0.000553	0.011316	0.006386	0.001749	0.017492
16-Jun-2033	2.082106	11.239800	17.603800	2.667470	39.050422	1.484080	0.016270	0.157779	0.041403	0.003282	0.001697	0.116205	0.000542	0.011148	0.006265	0.001718	0.017180
17-Jun-2033	2.144819	11.044600	17.268100	2.629140	38.405165	1.452320	0.015939	0.154490	0.041086	0.003220	0.001682	0.114908	0.000531	0.010991	0.006153	0.001689	0.016888
18-Jun-2033	2.243352	10.869800	16.965600	2.596190	37.833001	1.423570	0.015640	0.151525	0.040839	0.003165	0.001670	0.113940	0.000521	0.010862	0.006051	0.001663	0.016627
19-Jun-2033	2.372956	10.705000	16.682000	2.562830	37.284119	1.396790	0.015362	0.148770	0.040511	0.003114	0.001655	0.112689	0.000512	0.010722	0.005956	0.001638	0.016381
20-Jun-2033	2.525456	10.560700	16.436600	2.533810	36.804297	1.373880	0.015123	0.146411	0.040096	0.003069	0.001640	0.111552	0.000504	0.010603	0.005873	0.001616	0.016165
21-Jun-2033	2.693722	10.406500	16.175100	2.502570	36.290614	1.349560	0.014869	0.143903	0.039709	0.003021	0.001627	0.110472	0.000495	0.010475	0.005785	0.001593	0.015934
22-Jun-2033	2.849949	10.212500	15.844600	2.463730	35.646253	1.318640	0.014547	0.140725	0.039315	0.002960	0.001611	0.109149	0.000484	0.010316	0.005673	0.001564	0.015643
23-Jun-2033	2.981692	10.026600	15.523700	2.427410	35.032495	1.288250	0.014232	0.137614	0.039000	0.002902	0.001598	0.108004	0.000474	0.010169	0.005566	0.001536	0.015365
24-Jun-2033	3.123725	9.886740	15.276800	2.401460	34.576402	1.264300	0.013986	0.135171	0.038815	0.002858	0.001590	0.107287	0.000466	0.010066	0.005484	0.001515	0.015154
25-Jun-2033	3.273276	9.710500	14.973100	2.366930	33.994136	1.235600	0.013690	0.132236	0.038523	0.002804	0.001577	0.106181	0.000456	0.009926	0.005383	0.001489	0.014892
26-Jun-2033	3.452014	9.548930	14.693500	2.335660	33.461926	1.209000	0.013415	0.129521	0.038255	0.002753	0.001566	0.105194	0.000447	0.009799	0.005289	0.001465	0.014650
27-Jun-2033	3.616284	9.391900	14.422200	2.305090	32.943935	1.183270	0.013149	0.126886	0.037990	0.002704	0.001555	0.104224	0.000438	0.009675	0.005199	0.001441	0.014415
28-Jun-2033	3.802373	9.241090	14.155700	2.276750	32.450658	1.157590	0.012886	0.124268	0.037826	0.002658	0.001547	0.103515	0.000429	0.009564	0.005111	0.001419	0.014190
29-Jun-2033	3.996266	9.075970	13.865500	2.245420	31.909337	1.129760	0.012600	0.121431	0.037612	0.002608	0.001537	0.102684	0.000420	0.009440	0.005016	0.001394	0.013944
30-Jun-2033	6.175425	7.638120	11.361800	1.970040	27.185010	0.890293	0.010125	0.096900	0.035141	0.002160	0.001444	0.094472	0.000338	0.008330	0.004184	0.001178	0.011777
1-Jul-2033	7.622446	7.388260	10.916700	1.917370	26.344215	0.848607	0.009694	0.092619	0.034933	0.002102	0.001425	0.093705	0.000323	0.008169	0.004046	0.001140	0.011402
2-Jul-2033	8.458920	7.316910	10.778000	1.902270	26.103872	0.835402	0.009562	0.091303	0.034988	0.002095	0.001422	0.094115	0.000319	0.008145	0.004008	0.001129	0.011293
3-Jul-2033	9.687354	7.387350	10.899700	1.910820	26.314970	0.848095	0.009690	0.092588	0.035159	0.002129	0.001422	0.094865	0.000323	0.008216	0.004055	0.001140	0.011397
4-Jul-2033	10.339082	7.309620	10.765500	1.898030	26.068209	0.834952	0.009553	0.091226	0.034911	0.002102	0.001418	0.094284	0.000319	0.008145	0.004007	0.001128	0.011279
5-Jul-2033	11.056494	7.415930	10.958100	1.914430	26.401200	0.854231	0.009746	0.093159	0.035071	0.002135	0.001421	0.094660	0.000325	0.008227	0.004072	0.001144	0.011439
6-Jul-2033	11.545990	7.478350	11.067700	1.924820	26.599849	0.865174	0.009858	0.094274	0.035159	0.002159	0.001423	0.095137	0.000329	0.008277	0.004110	0.001153	0.011531
7-Jul-2033	10.599045	7.405450	10.941700	1.914190	26.374043	0.852466	0.009728	0.092971	0.034958	0.002130	0.001420	0.094505	0.000325	0.008207	0.004064	0.001142	0.011422
8-Jul-2033	10.432278	7.476080	11.071600	1.925370	26.596445	0.865443	0.009857	0.094264	0.035034	0.002150	0.001422	0.094686	0.000329	0.008257	0.004106	0.001153	0.011529
9-Jul-2033	10.310701	7.559170	11.222300	1.938750	26.859020	0.880488	0.010008	0.095772	0.035132	0.002176	0.001424	0.094947	0.000334	0.008318	0.004156	0.001165	0.011653

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Jul-2033	10.631049	7.619560	11.331600	1.948370	27.049429	0.891411	0.010118	0.096870	0.035212	0.002196	0.001426	0.095227	0.000338	0.008363	0.004192	0.001174	0.011744
11-Jul-2033	11.285380	7.693140	11.464400	1.960370	27.282574	0.904653	0.010251	0.098198	0.035295	0.002219	0.001428	0.095477	0.000342	0.008417	0.004236	0.001185	0.011854
12-Jul-2033	12.186471	7.894740	11.832100	1.991470	27.914039	0.941504	0.010619	0.101887	0.035584	0.002280	0.001432	0.096051	0.000354	0.008568	0.004358	0.001216	0.012160
13-Jul-2033	12.223331	8.229710	12.445600	2.042940	28.962413	1.003070	0.011233	0.108028	0.036020	0.002381	0.001439	0.096905	0.000375	0.008813	0.004561	0.001267	0.012667
14-Jul-2033	12.769680	7.865080	11.779100	1.988420	27.827418	0.936055	0.010564	0.101332	0.035446	0.002271	0.001432	0.095940	0.000353	0.008536	0.004338	0.001211	0.012113
15-Jul-2033	12.678871	7.852520	11.752400	1.987410	27.791897	0.933294	0.010539	0.101074	0.035425	0.002271	0.001432	0.096134	0.000352	0.008529	0.004331	0.001209	0.012091
16-Jul-2033	13.412590	7.921650	11.878200	1.998770	28.011295	0.945812	0.010664	0.102325	0.035495	0.002292	0.001434	0.096354	0.000356	0.008578	0.004372	0.001219	0.012195
17-Jul-2033	14.624194	8.097310	12.198200	2.025830	28.561351	0.977876	0.010985	0.105532	0.035751	0.002346	0.001438	0.096885	0.000366	0.008710	0.004478	0.001246	0.012461
18-Jul-2033	14.497929	8.029540	12.074800	2.016260	28.352720	0.965429	0.010861	0.104290	0.035615	0.002325	0.001437	0.096690	0.000362	0.008655	0.004436	0.001236	0.012357
19-Jul-2033	14.572280	8.139620	12.275300	2.033580	28.698914	0.985485	0.011061	0.106295	0.035758	0.002359	0.001439	0.097027	0.000369	0.008736	0.004502	0.001252	0.012523
20-Jul-2033	14.778406	8.118340	12.238300	2.031720	28.638118	0.981623	0.011022	0.105898	0.035647	0.002351	0.001439	0.096884	0.000368	0.008710	0.004488	0.001249	0.012489
21-Jul-2033	15.400884	8.439670	12.824800	2.081130	29.643949	1.040470	0.011611	0.111788	0.036100	0.002449	0.001446	0.097803	0.000387	0.008950	0.004682	0.001298	0.012976
22-Jul-2033	16.039806	8.515380	12.955500	2.094810	29.889331	1.053460	0.011744	0.113111	0.036185	0.002482	0.001449	0.098536	0.000392	0.009009	0.004727	0.001308	0.013083
23-Jul-2033	16.419947	8.391550	12.730100	2.075880	29.502174	1.030820	0.011518	0.110845	0.035989	0.002443	0.001446	0.098131	0.000384	0.008915	0.004652	0.001290	0.012896
24-Jul-2033	16.416871	8.331360	12.622300	2.067480	29.317289	1.019910	0.011408	0.109747	0.035837	0.002423	0.001445	0.097918	0.000381	0.008863	0.004614	0.001280	0.012805
25-Jul-2033	15.481157	8.422350	12.788100	2.081630	29.602760	1.036540	0.011574	0.111410	0.035956	0.002451	0.001447	0.098138	0.000386	0.008930	0.004669	0.001294	0.012942
26-Jul-2033	14.822514	8.445710	12.831000	2.085740	29.678015	1.040800	0.011617	0.111837	0.035959	0.002458	0.001448	0.098208	0.000388	0.008945	0.004683	0.001298	0.012977
27-Jul-2033	14.565408	8.533280	12.990600	2.099740	29.954329	1.056730	0.011776	0.113428	0.036061	0.002485	0.001450	0.098472	0.000393	0.009008	0.004735	0.001311	0.013109
28-Jul-2033	13.794922	8.403340	12.754600	2.081200	29.553522	1.032910	0.011538	0.111040	0.035798	0.002444	0.001447	0.098052	0.000385	0.008903	0.004655	0.001291	0.012910
29-Jul-2033	12.902820	8.476240	12.887200	2.092870	29.783610	1.046220	0.011671	0.112374	0.035871	0.002468	0.001449	0.098327	0.000390	0.008955	0.004699	0.001302	0.013019
30-Jul-2033	12.574316	8.540680	13.004400	2.103340	29.987632	1.057950	0.011789	0.113548	0.035933	0.002488	0.001450	0.098562	0.000393	0.009001	0.004737	0.001312	0.013115
31-Jul-2033	11.757686	8.741350	13.370700	2.134480	30.616940	1.094700	0.012156	0.117225	0.036197	0.002550	0.001455	0.099152	0.000406	0.009149	0.004858	0.001342	0.013418
1-Aug-2033	11.929376	8.740220	13.367900	2.135240	30.617248	1.094290	0.012153	0.117188	0.036164	0.002550	0.001455	0.099191	0.000406	0.009145	0.004857	0.001342	0.013416
2-Aug-2033	12.504227	8.764650	13.413600	2.139650	30.696410	1.098850	0.012198	0.117636	0.036141	0.002557	0.001456	0.099234	0.000407	0.009158	0.004871	0.001345	0.013451
3-Aug-2033	13.263371	8.949680	13.751000	2.168060	31.275422	1.132770	0.012536	0.121027	0.036389	0.002615	0.001459	0.099816	0.000418	0.009296	0.004983	0.001373	0.013730
4-Aug-2033	14.155892	8.960660	13.769000	2.170790	31.314081	1.134500	0.012555	0.121206	0.036370	0.002621	0.001460	0.100007	0.000419	0.009303	0.004989	0.001374	0.013744
5-Aug-2033	14.415451	9.341220	14.464600	2.230400	32.509814	1.204210	0.013251	0.128171	0.036852	0.002737	0.001468	0.101096	0.000442	0.009579	0.005218	0.001432	0.014319
6-Aug-2033	15.504296	9.010200	13.860700	2.182310	31.485222	1.143410	0.012642	0.122076	0.036252	0.002639	0.001462	0.100223	0.000422	0.009317	0.005014	0.001381	0.013810
7-Aug-2033	15.569869	9.343150	14.470100	2.232870	32.524804	1.204580	0.013252	0.128179	0.036716	0.002737	0.001468	0.101053	0.000442	0.009565	0.005216	0.001432	0.014315
8-Aug-2033	15.569992	9.367560	14.516200	2.237380	32.604328	1.209100	0.013297	0.128627	0.036714	0.002743	0.001469	0.101042	0.000444	0.009578	0.005230	0.001435	0.014353
9-Aug-2033	15.861614	9.346350	14.480600	2.234010	32.537489	1.205500	0.013259	0.128249	0.036636	0.002732	0.001468	0.100774	0.000443	0.009557	0.005217	0.001432	0.014322
10-Aug-2033	15.950235	9.536510	14.828500	2.263680	33.134500	1.240380	0.013607	0.131725	0.036865	0.002790	0.001472	0.101298	0.000454	0.009695	0.005331	0.001461	0.014610
11-Aug-2033	16.360778	9.467040	14.703200	2.254200	32.921994	1.227710	0.013479	0.130451	0.036700	0.002768	0.001471	0.101054	0.000450	0.009635	0.005288	0.001450	0.014503
12-Aug-2033	15.028784	8.966700	13.789500	2.180600	31.369561	1.135780	0.012561	0.121253	0.035834	0.002619	0.001461	0.099761	0.000420	0.009247	0.004981	0.001374	0.013739
13-Aug-2033	15.802735	9.025770	13.898400	2.190020	31.555850	1.146670	0.012669	0.122335	0.035889	0.002636	0.001462	0.099890	0.000423	0.009287	0.005016	0.001383	0.013828
14-Aug-2033	15.818337	9.653340	15.044300	2.286620	33.520691	1.261640	0.013817	0.133818	0.036757	0.002827	0.001475	0.101678	0.000462	0.009753	0.005396	0.001478	0.014777
15-Aug-2033	15.692596	9.595560	14.940500	2.277880	33.340423	1.251170	0.013711	0.132766	0.036656	0.002807	0.001474	0.101396	0.000458	0.009707	0.005361	0.001469	0.014691
16-Aug-2033	15.673588	9.508910	14.782800	2.266130	33.075672	1.235230	0.013551	0.131162	0.036439	0.002782	0.001472	0.101182	0.000453	0.009634	0.005307	0.001456	0.014557
17-Aug-2033	15.566467	9.292090	14.386600	2.234330	32.403320	1.195400	0.013153	0.127171	0.036042	0.002718	0.001468	0.100662	0.000440	0.009465	0.005174	0.001423	0.014225
18-Aug-2033	15.530451	9.286340	14.373100	2.236000	32.395839	1.193890	0.013137	0.127007	0.035946	0.002723	0.001468	0.100958	0.000439	0.009453	0.005168	0.001421	0.014209
19-Aug-2033	15.240157	9.248180	14.305900	2.230000	32.275845	1.187130	0.013069	0.126324	0.035849	0.002709	0.001467	0.100680	0.000437	0.009421	0.005145	0.001415	0.014153
20-Aug-2033	14.371467	9.379130	14.545400	2.250400	32.686835	1.211160	0.013308	0.128718	0.036007	0.002748	0.001470	0.101045	0.000445	0.009516	0.005224	0.001435	0.014351
21-Aug-2033	14.065935	9.492620	14.752400	2.268200	33.043520	1.231890	0.013515	0.130786	0.036147	0.002783	0.001472	0.101395	0.000452	0.009599	0.005292	0.001452	0.014522
22-Aug-2033	13.957845	9.850160	15.405500	2.322800	34.161140	1.297420	0.014169	0.137333	0.036664	0.002891	0.001480	0.102377	0.000474	0.009866	0.005509	0.001506	0.015064
23-Aug-2033	13.855939	9.890680	15.480600	2.329390	34.289456	1.304930	0.014243	0.138072	0.036678	0.002903	0.001481	0.102451	0.000476	0.009892	0.005533	0.001512	0.015124
24-Aug-2033	13.631094	9.656130	15.056900	2.295930	33.565996	1.262170	0.013814	0.133770	0.036173	0.002828	0.001476	0.101583	0.000462	0.009697	0.005387	0.001477	0.014767
25-Aug-2033	13.622769	9.431360	14.646100	2.262980	32.869058	1.220840	0.013400	0.129631	0.035788	0.002762	0.001471	0.101029	0.000448	0.009523	0.005249	0.001442	0.014423
26-Aug-2033	13.135386	9.464100	14.705900	2.268530	32.973664	1.226800	0.013459	0.130222	0.035803	0.002772	0.001472	0.101150	0.000450	0.009545	0.005269	0.001447	0.014471
27-Aug-2033	12.392453	9.486130	14.749100	2.272880	33.046586	1.231030	0.013500	0.130628	0.035757	0.002776	0.001472	0.101057	0.000452	0.009551	0.005280	0.001450	0.014505
28-Aug-2033	11.281739	9.513630	14.798900	2.277980	33.136256	1.235960	0.013549	0.131113	0.035753	0.002786	0.001473	0.101195	0.000454	0.009568	0.005296	0.001454	0.014544
29-Aug-2033	11.133943	9.634220	15.019500	2.296970	33.515570	1.258060	0.013769	0.133313	0.035889	0.002822	0.001476	0.101531	0.000461	0.009654	0.005369	0.001473	0.014725
30-Aug-2033	10.650076	9.758180	15.246400	2.316620	33.906017	1.280740	0.013995	0.135575	0.036031	0.002859	0.001478	0.101863	0.000469	0.009743	0.005443	0.001491	0.014913

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Aug-2033	9.907648	9.876240	15.460700	2.335770	34.279672	1.302180	0.014208	0.137707	0.036142	0.002898	0.001481	0.102332	0.000476	0.009828	0.005514	0.001509	0.015088
1-Sep-2033	8.688180	9.736040	15.203100	2.315770	33.847233	1.276330	0.013949	0.135107	0.035847	0.002861	0.001478	0.102168	0.000467	0.009718	0.005427	0.001487	0.014871
2-Sep-2033	7.921146	9.729980	15.192800	2.315280	33.830083	1.275270	0.013937	0.134995	0.035805	0.002860	0.001478	0.102139	0.000467	0.009710	0.005423	0.001486	0.014861
3-Sep-2033	8.319928	9.775650	15.277600	2.322460	33.973688	1.283810	0.014022	0.135841	0.035836	0.002873	0.001479	0.102218	0.000470	0.009740	0.005450	0.001493	0.014929
4-Sep-2033	7.764142	9.949810	15.595500	2.349190	34.518640	1.315710	0.014340	0.139026	0.036083	0.002926	0.001482	0.102718	0.000480	0.009870	0.005556	0.001519	0.015193
5-Sep-2033	7.738785	9.865170	15.442300	2.336630	34.255572	1.300380	0.014186	0.137486	0.035913	0.002901	0.001480	0.102470	0.000475	0.009802	0.005504	0.001506	0.015063
6-Sep-2033	7.849611	9.853690	15.421800	2.335730	34.223200	1.298380	0.014165	0.137270	0.035820	0.002901	0.001479	0.102556	0.000475	0.009788	0.005496	0.001504	0.015041
7-Sep-2033	7.771938	10.144500	15.953500	2.379750	35.130627	1.351800	0.014698	0.142607	0.036243	0.002988	0.001485	0.103318	0.000492	0.010006	0.005673	0.001548	0.015483
8-Sep-2033	8.042190	10.274400	16.190900	2.399980	35.538294	1.375670	0.014936	0.144989	0.036406	0.003029	0.001487	0.103719	0.000500	0.010100	0.005752	0.001568	0.015678
9-Sep-2033	8.143488	10.418600	16.454700	2.422000	35.989040	1.402180	0.015200	0.147629	0.036588	0.003073	0.001490	0.104123	0.000509	0.010207	0.005839	0.001590	0.015896
10-Sep-2033	8.437217	10.906900	17.352200	2.496300	37.514293	1.492660	0.016100	0.156641	0.037142	0.003222	0.001498	0.105355	0.000539	0.010558	0.006135	0.001663	0.016632
11-Sep-2033	9.536467	10.478300	16.565800	2.431070	36.175461	1.413390	0.015311	0.148745	0.036646	0.003090	0.001491	0.104191	0.000513	0.010248	0.005875	0.001599	0.015987
12-Sep-2033	10.318551	10.376100	16.379900	2.415900	35.857798	1.394720	0.015125	0.146874	0.036470	0.003059	0.001489	0.103899	0.000507	0.010168	0.005813	0.001583	0.015831
13-Sep-2033	9.054023	10.222400	16.102400	2.392550	35.377854	1.366960	0.014846	0.144089	0.036191	0.003011	0.001485	0.103342	0.000497	0.010046	0.005719	0.001560	0.015597
14-Sep-2033	7.654304	10.280100	16.208100	2.401520	35.558869	1.377600	0.014952	0.145148	0.036253	0.003029	0.001486	0.103518	0.000501	0.010088	0.005754	0.001568	0.015684
15-Sep-2033	6.527078	10.309100	16.262200	2.406090	35.650101	1.383040	0.015006	0.145687	0.036273	0.003037	0.001486	0.103553	0.000503	0.010107	0.005771	0.001573	0.015727
16-Sep-2033	6.672297	10.348400	16.335600	2.412520	35.774712	1.390520	0.015079	0.146422	0.036266	0.003051	0.001486	0.103680	0.000505	0.010130	0.005794	0.001578	0.015784
17-Sep-2033	6.036334	10.379500	16.391300	2.417670	35.873577	1.396160	0.015135	0.146982	0.036281	0.003063	0.001487	0.103896	0.000507	0.010153	0.005813	0.001583	0.015828
18-Sep-2033	5.971927	10.437800	16.498000	2.426760	36.056584	1.406920	0.015242	0.148052	0.036337	0.003082	0.001488	0.104079	0.000511	0.010195	0.005848	0.001591	0.015915
19-Sep-2033	5.689989	10.527300	16.662600	2.440410	36.336276	1.423470	0.015407	0.149702	0.036452	0.003108	0.001489	0.104282	0.000516	0.010260	0.005902	0.001605	0.016051
20-Sep-2033	5.588751	10.607300	16.809500	2.452840	36.587223	1.438300	0.015554	0.151176	0.036534	0.003134	0.001490	0.104537	0.000521	0.010317	0.005951	0.001617	0.016170
21-Sep-2033	5.502456	10.704400	16.987100	2.467770	36.891164	1.456170	0.015732	0.152955	0.036647	0.003164	0.001492	0.104820	0.000527	0.010388	0.006009	0.001632	0.016315
22-Sep-2033	5.061267	11.029000	17.579800	2.516920	37.904090	1.515610	0.016326	0.158899	0.037147	0.003260	0.001499	0.105663	0.000547	0.010633	0.006207	0.001681	0.016810
23-Sep-2033	5.018687	11.785600	18.961200	2.631970	40.267096	1.654260	0.017710	0.172752	0.038263	0.003489	0.001515	0.107771	0.000593	0.011202	0.006666	0.001796	0.017957
24-Sep-2033	4.992892	10.998700	17.527300	2.512350	37.809611	1.510330	0.016273	0.158366	0.037177	0.003248	0.001500	0.105460	0.000545	0.010610	0.006188	0.001677	0.016766
25-Sep-2033	5.153222	11.081200	17.679100	2.525030	38.067830	1.525630	0.016425	0.159887	0.037168	0.003273	0.001499	0.105622	0.000550	0.010664	0.006238	0.001689	0.016890
26-Sep-2033	4.789282	10.982500	17.501800	2.510210	37.760347	1.508020	0.016247	0.158116	0.036942	0.003244	0.001496	0.105307	0.000544	0.010583	0.006177	0.001674	0.016738
27-Sep-2033	4.005210	10.960200	17.461600	2.507000	37.691445	1.504020	0.016207	0.157713	0.036890	0.003238	0.001495	0.105261	0.000543	0.010564	0.006163	0.001670	0.016704
28-Sep-2033	3.500188	10.909400	17.368900	2.499450	37.533507	1.494640	0.016114	0.156777	0.036818	0.003222	0.001495	0.105074	0.000540	0.010526	0.006132	0.001663	0.016627
29-Sep-2033	3.053425	11.321400	18.121400	2.562160	38.820511	1.570190	0.016868	0.164322	0.037415	0.003346	0.001503	0.106217	0.000565	0.010835	0.006383	0.001725	0.017251
30-Sep-2033	2.990479	11.582600	18.598600	2.601840	39.636129	1.618120	0.017346	0.169108	0.037790	0.003426	0.001508	0.106944	0.000581	0.011030	0.006541	0.001765	0.017647
1-Oct-2033	2.932673	11.732300	18.871600	2.624700	40.104068	1.645480	0.017619	0.171843	0.038016	0.003471	0.001512	0.107363	0.000590	0.011143	0.006632	0.001787	0.017874
2-Oct-2033	2.729055	10.969900	17.481400	2.508850	37.723285	1.505930	0.016226	0.157899	0.036954	0.003239	0.001498	0.105159	0.000544	0.010567	0.006169	0.001672	0.016719
3-Oct-2033	2.564487	10.863000	17.287100	2.492510	37.389067	1.486480	0.016031	0.155953	0.036748	0.003206	0.001494	0.104828	0.000537	0.010485	0.006104	0.001656	0.016556
4-Oct-2033	2.584154	10.816000	17.202000	2.485100	37.241194	1.478020	0.015946	0.155105	0.036649	0.003192	0.001492	0.104680	0.000534	0.010449	0.006075	0.001649	0.016485
5-Oct-2033	2.699829	10.785700	17.146900	2.480490	37.146551	1.472590	0.015892	0.154559	0.036570	0.003184	0.001491	0.104631	0.000532	0.010426	0.006057	0.001644	0.016438
6-Oct-2033	2.226674	10.704300	16.999600	2.467700	36.890626	1.458080	0.015746	0.153101	0.036413	0.003162	0.001488	0.104458	0.000528	0.010362	0.006008	0.001631	0.016313
7-Oct-2033	1.636169	10.670000	16.937300	2.462270	36.782618	1.451950	0.015684	0.152486	0.036358	0.003154	0.001487	0.104402	0.000526	0.010336	0.005987	0.001626	0.016259
8-Oct-2033	1.427724	10.656900	16.913000	2.460240	36.741548	1.449480	0.015660	0.152243	0.036350	0.003149	0.001487	0.104363	0.000525	0.010328	0.005979	0.001624	0.016240
9-Oct-2033	0.988789	10.623100	16.851500	2.454720	36.634418	1.443420	0.015599	0.151637	0.036305	0.003140	0.001486	0.104304	0.000523	0.010303	0.005959	0.001619	0.016189
10-Oct-2033	0.120451	10.603400	16.815700	2.451620	36.572461	1.439920	0.015564	0.151285	0.036275	0.003135	0.001486	0.104260	0.000521	0.010287	0.005947	0.001616	0.016158
11-Oct-2033	0.039540	10.567500	16.749900	2.445770	36.458728	1.433350	0.015498	0.150632	0.036219	0.003124	0.001484	0.104166	0.000519	0.010263	0.005926	0.001610	0.016104
12-Oct-2033	0.114361	10.543800	16.707100	2.441720	36.382872	1.429100	0.015456	0.150210	0.036204	0.003116	0.001483	0.104056	0.000518	0.010246	0.005912	0.001607	0.016069
13-Oct-2033	0.098399	10.557400	16.732400	2.443820	36.425479	1.431660	0.015481	0.150463	0.036207	0.003120	0.001483	0.104077	0.000519	0.010255	0.005920	0.001609	0.016090
14-Oct-2033	0.089315	10.553200	16.724800	2.443100	36.412026	1.430920	0.015474	0.150389	0.036202	0.003119	0.001483	0.104069	0.000518	0.010252	0.005918	0.001608	0.016083
15-Oct-2033	0.088715	10.547300	16.714000	2.442170	36.393464	1.429860	0.015463	0.150282	0.036201	0.003118	0.001483	0.104055	0.000518	0.010248	0.005914	0.001607	0.016074
16-Oct-2033	0.086720	10.548500	16.714800	2.442720	36.398725	1.429780	0.015463	0.150281	0.036216	0.003118	0.001484	0.104110	0.000518	0.010251	0.005915	0.001608	0.016077
17-Oct-2033	0.088162	10.650900	16.876100	2.466780	36.753497	1.443510	0.015612	0.151725	0.036562	0.003149	0.001498	0.105148	0.000523	0.010350	0.005972	0.001623	0.016232
18-Oct-2033	0.089929	10.714000	16.974100	2.482260	36.974805	1.451780	0.015702	0.152597	0.036781	0.003170	0.001509	0.106181	0.000526	0.010411	0.006007	0.001633	0.016326
19-Oct-2033	0.093679	10.743500	17.018800	2.489370	37.077745	1.455250	0.015742	0.152979	0.036933	0.003175	0.001515	0.106716	0.000527	0.010445	0.006023	0.001637	0.016374
20-Oct-2033	0.095691	10.754200	17.025800	2.495330	37.129006	1.455890	0.015748	0.153037	0.036951	0.003185	0.001518	0.106757	0.000528	0.010461	0.006027	0.001638	0.016385
21-Oct-2033	0.098026	10.770600	17.055600	2.497590	37.179264	1.457880	0.015773	0.153274	0.037040	0.003186	0.001520	0.106678	0.000529	0.010476	0.006037	0.001641	0.016413

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
22-Oct-2033	0.098230	10.811500	17.117400	2.508060	37.324507	1.462860	0.015829	0.153809	0.037196	0.003198	0.001527	0.107202	0.000530	0.010518	0.006060	0.001648	0.016475
23-Oct-2033	0.096935	10.842600	17.169800	2.514880	37.430248	1.467650	0.015879	0.154301	0.037290	0.003207	0.001531	0.107537	0.000532	0.010546	0.006078	0.001652	0.016523
24-Oct-2033	0.095148	10.880600	17.234000	2.522900	37.558160	1.473510	0.015940	0.154903	0.037404	0.003218	0.001536	0.107924	0.000534	0.010579	0.006100	0.001658	0.016582
25-Oct-2033	0.092115	10.909600	17.276900	2.529530	37.657876	1.476950	0.015979	0.155272	0.037494	0.003227	0.001539	0.108142	0.000535	0.010609	0.006115	0.001662	0.016624
26-Oct-2033	0.091646	10.946600	17.333200	2.538920	37.788933	1.481560	0.016030	0.155763	0.037625	0.003239	0.001545	0.108513	0.000537	0.010647	0.006136	0.001668	0.016680
27-Oct-2033	0.091595	10.990900	17.403200	2.549200	37.941883	1.487540	0.016095	0.156392	0.037778	0.003252	0.001551	0.108952	0.000539	0.010690	0.006161	0.001675	0.016747
28-Oct-2033	0.090874	10.989900	17.394700	2.551230	37.947745	1.486160	0.016083	0.156271	0.037805	0.003254	0.001554	0.109219	0.000539	0.010695	0.006159	0.001674	0.016744
29-Oct-2033	0.090596	11.045500	17.482100	2.564320	38.140483	1.493580	0.016164	0.157053	0.037998	0.003271	0.001562	0.109795	0.000542	0.010749	0.006190	0.001683	0.016829
30-Oct-2033	0.090131	11.106800	17.577600	2.579010	38.354043	1.501610	0.016252	0.157902	0.038213	0.003290	0.001571	0.110463	0.000545	0.010810	0.006224	0.001692	0.016922
31-Oct-2033	0.089913	11.166700	17.670200	2.593680	38.564024	1.509310	0.016336	0.158719	0.038427	0.003308	0.001581	0.111155	0.000547	0.010870	0.006257	0.001701	0.017013
1-Nov-2033	0.089893	11.217600	17.748200	2.606300	38.743091	1.515750	0.016407	0.159405	0.038610	0.003324	0.001589	0.111764	0.000550	0.010921	0.006285	0.001709	0.017089
2-Nov-2033	0.089983	11.280600	17.846500	2.621420	38.962666	1.524010	0.016497	0.160278	0.038832	0.003343	0.001598	0.112452	0.000553	0.010984	0.006320	0.001718	0.017185
3-Nov-2033	0.089903	11.312600	17.896600	2.629330	39.075143	1.528240	0.016544	0.160724	0.038947	0.003353	0.001603	0.112833	0.000554	0.011016	0.006338	0.001723	0.017234
4-Nov-2033	0.089617	11.361500	17.971700	2.641120	39.245798	1.534440	0.016612	0.161384	0.039123	0.003368	0.001611	0.113369	0.000557	0.011065	0.006365	0.001731	0.017308
5-Nov-2033	0.088433	11.304200	17.879800	2.628390	39.050297	1.526480	0.016526	0.160551	0.038928	0.003352	0.001605	0.113115	0.000554	0.011010	0.006333	0.001722	0.017220
6-Nov-2033	0.087509	11.337900	17.930700	2.637300	39.171138	1.530590	0.016572	0.160992	0.039050	0.003362	0.001611	0.113531	0.000555	0.011044	0.006351	0.001727	0.017271
7-Nov-2033	0.086918	11.387800	18.007000	2.649470	39.345854	1.536860	0.016642	0.161661	0.039229	0.003378	0.001617	0.113942	0.000558	0.011094	0.006379	0.001735	0.017346
8-Nov-2033	0.086390	11.435200	18.081000	2.660750	39.510663	1.543110	0.016710	0.162320	0.039395	0.003392	0.001624	0.114396	0.000560	0.011141	0.006405	0.001742	0.017418
9-Nov-2033	0.085540	11.478700	18.150200	2.670740	39.660421	1.549050	0.016774	0.162943	0.039544	0.003405	0.001630	0.114836	0.000562	0.011183	0.006429	0.001748	0.017484
10-Nov-2033	0.084085	11.513700	18.208800	2.677810	39.776930	1.554350	0.016829	0.163490	0.039652	0.003415	0.001635	0.115182	0.000564	0.011215	0.006450	0.001754	0.017538
11-Nov-2033	0.082883	11.568000	18.295000	2.690330	39.964075	1.561760	0.016909	0.164267	0.039834	0.003431	0.001641	0.115591	0.000567	0.011268	0.006480	0.001762	0.017621
12-Nov-2033	0.081749	11.583500	18.317800	2.694470	40.019827	1.563930	0.016931	0.164485	0.039884	0.003437	0.001644	0.115820	0.000567	0.011284	0.006489	0.001764	0.017643
13-Nov-2033	0.080208	11.625800	18.386700	2.703690	40.163418	1.569770	0.016995	0.165098	0.040022	0.003449	0.001649	0.116166	0.000569	0.011323	0.006513	0.001771	0.017708
14-Nov-2033	0.079383	11.672900	18.462300	2.714290	40.324678	1.576200	0.017065	0.165780	0.040179	0.003462	0.001656	0.116592	0.000572	0.011368	0.006539	0.001778	0.017780
15-Nov-2033	0.079194	11.726400	18.549400	2.725950	40.506283	1.583890	0.017146	0.166577	0.040353	0.003477	0.001662	0.117029	0.000575	0.011418	0.006570	0.001786	0.017862
16-Nov-2033	0.079218	11.792700	18.657100	2.740430	40.731463	1.593330	0.017247	0.167563	0.040570	0.003496	0.001670	0.117575	0.000578	0.011481	0.006607	0.001796	0.017964
17-Nov-2033	0.079206	11.856500	18.760200	2.754590	40.949082	1.602370	0.017344	0.168505	0.040782	0.003514	0.001679	0.118130	0.000581	0.011541	0.006643	0.001806	0.018062
18-Nov-2033	0.079017	11.926100	18.872100	2.770160	41.186991	1.612050	0.017448	0.169519	0.041014	0.003535	0.001688	0.118769	0.000585	0.011608	0.006683	0.001817	0.018168
19-Nov-2033	0.078854	12.016000	19.014500	2.790970	41.497166	1.624230	0.017579	0.170799	0.041323	0.003561	0.001700	0.119636	0.000589	0.011695	0.006733	0.001831	0.018305
20-Nov-2033	0.078273	12.104300	19.153200	2.811860	41.803677	1.635970	0.017707	0.172037	0.041631	0.003588	0.001713	0.120558	0.000593	0.011782	0.006782	0.001844	0.018440
21-Nov-2033	0.078089	12.180300	19.271500	2.830140	42.068726	1.645900	0.017816	0.173088	0.041900	0.003611	0.001725	0.121394	0.000597	0.011857	0.006825	0.001855	0.018555
22-Nov-2033	0.078220	12.245500	19.375200	2.845070	42.293012	1.654820	0.017912	0.174024	0.042121	0.003630	0.001734	0.122018	0.000600	0.011920	0.006861	0.001865	0.018654
23-Nov-2033	0.078038	12.316800	19.489600	2.861120	42.537142	1.664730	0.018018	0.175061	0.042361	0.003650	0.001743	0.122664	0.000604	0.011988	0.006901	0.001876	0.018763
24-Nov-2033	0.077782	12.353700	19.549200	2.869290	42.662925	1.669930	0.018074	0.175604	0.042484	0.003661	0.001748	0.122982	0.000606	0.012023	0.006922	0.001882	0.018820
25-Nov-2033	0.078055	12.401800	19.625400	2.880480	42.829111	1.676440	0.018144	0.176289	0.042650	0.003675	0.001755	0.123462	0.000608	0.012070	0.006949	0.001889	0.018893
26-Nov-2033	0.078340	12.457100	19.712200	2.893550	43.021018	1.683780	0.018224	0.177063	0.042843	0.003692	0.001763	0.124041	0.000611	0.012125	0.006980	0.001898	0.018977
27-Nov-2033	0.078435	12.507300	19.790800	2.905480	43.195495	1.690430	0.018297	0.177765	0.043019	0.003707	0.001770	0.124574	0.000613	0.012174	0.007008	0.001905	0.019053
28-Nov-2033	0.078458	12.543400	19.847300	2.914040	43.320887	1.695200	0.018349	0.178269	0.043145	0.003718	0.001776	0.124957	0.000615	0.012210	0.007028	0.001911	0.019108
29-Nov-2033	0.078430	12.587000	19.916600	2.924090	43.471142	1.701140	0.018413	0.178892	0.043294	0.003731	0.001782	0.125381	0.000617	0.012252	0.007053	0.001917	0.019175
30-Nov-2033	0.078373	12.637000	19.995900	2.935580	43.643307	1.707950	0.018486	0.179607	0.043464	0.003745	0.001789	0.125864	0.000619	0.012300	0.007081	0.001925	0.019251
1-Dec-2033	0.078293	12.683900	20.070600	2.946350	43.804768	1.714360	0.018555	0.180280	0.043625	0.003759	0.001795	0.126316	0.000622	0.012346	0.007107	0.001932	0.019323
2-Dec-2033	0.078189	12.721200	20.130000	2.954920	43.933197	1.719460	0.018611	0.180816	0.043752	0.003770	0.001800	0.126675	0.000624	0.012382	0.007128	0.001938	0.019380
3-Dec-2033	0.077841	12.750300	20.175500	2.961850	44.034397	1.723310	0.018652	0.181222	0.043854	0.003779	0.001805	0.126986	0.000625	0.012411	0.007144	0.001942	0.019424
4-Dec-2033	0.077654	12.787600	20.233200	2.970910	44.164845	1.728120	0.018705	0.181732	0.043986	0.003790	0.001810	0.127409	0.000627	0.012448	0.007165	0.001948	0.019480
5-Dec-2033	0.077571	12.826500	20.294000	2.980210	44.300275	1.733240	0.018761	0.182273	0.044123	0.003802	0.001816	0.127829	0.000629	0.012486	0.007187	0.001954	0.019539
6-Dec-2033	0.077512	12.866300	20.356800	2.989520	44.437994	1.738590	0.018819	0.182836	0.044260	0.003814	0.001822	0.128234	0.000631	0.012525	0.007209	0.001960	0.019600
7-Dec-2033	0.077431	12.897300	20.406100	2.996640	44.544722	1.742830	0.018865	0.183281	0.044365	0.003823	0.001826	0.128533	0.000632	0.012555	0.007226	0.001965	0.019647
8-Dec-2033	0.077393	12.921800	20.445100	3.002230	44.628918	1.746180	0.018901	0.183632	0.044449	0.003830	0.001830	0.128765	0.000633	0.012579	0.007240	0.001968	0.019684
9-Dec-2033	0.077318	12.944500	20.481300	3.007470	44.707178	1.749290	0.018934	0.183958	0.044526	0.003837	0.001833	0.128985	0.000634	0.012601	0.007253	0.001972	0.019719
10-Dec-2033	0.077236	12.870700	20.365000	2.990140	44.451534	1.739400	0.018827	0.182917	0.044270	0.003815	0.001822	0.128228	0.000631	0.012528	0.007212	0.001961	0.019607
11-Dec-2033	0.077053	12.921500	20.445700	3.001880	44.626727	1.746310	0.018902	0.183643	0.044444	0.003830	0.001829	0.128725	0.000633	0.012578	0.007240	0.001968	0.019684
12-Dec-2033	0.076986	12.972900	20.526700	3.013920	44.804654	1.753200	0.018977	0.184369	0.044621	0.003845	0.001837	0.129251	0.000636	0.012628	0.007269	0.001976	0.019762

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Dec-2033	0.076974	13.026900	20.612100	3.026470	44.991173	1.760500	0.019056	0.185136	0.044807	0.003861	0.001844	0.129790	0.000639	0.012681	0.007299	0.001984	0.019845
14-Dec-2033	0.076831	13.076000	20.690200	3.037750	45.160227	1.767210	0.019128	0.185840	0.044974	0.003876	0.001851	0.130264	0.000641	0.012728	0.007327	0.001992	0.019920
15-Dec-2033	0.076786	13.140200	20.791900	3.052580	45.381604	1.775910	0.019222	0.186755	0.045194	0.003895	0.001860	0.130894	0.000644	0.012790	0.007363	0.002002	0.020017
16-Dec-2033	0.076751	13.194000	20.877100	3.065100	45.567500	1.783190	0.019301	0.187520	0.045379	0.003911	0.001868	0.131431	0.000647	0.012843	0.007393	0.002010	0.020099
17-Dec-2033	0.076625	13.245700	20.959000	3.077090	45.745970	1.790200	0.019377	0.188256	0.045557	0.003926	0.001875	0.131942	0.000649	0.012893	0.007422	0.002018	0.020178
18-Dec-2033	0.076540	13.300800	21.045900	3.089980	45.936635	1.797590	0.019457	0.189035	0.045747	0.003943	0.001883	0.132503	0.000652	0.012947	0.007453	0.002026	0.020262
19-Dec-2033	0.076508	13.283600	21.018400	3.086030	45.877421	1.795230	0.019431	0.188787	0.045688	0.003937	0.001880	0.132340	0.000651	0.012930	0.007443	0.002024	0.020236
20-Dec-2033	0.076492	13.330000	21.091900	3.096800	46.037632	1.801510	0.019499	0.189447	0.045848	0.003951	0.001887	0.132800	0.000653	0.012975	0.007469	0.002031	0.020306
21-Dec-2033	0.076466	13.390200	21.187000	3.110830	46.245727	1.809610	0.019587	0.190300	0.046055	0.003969	0.001896	0.133406	0.000656	0.013034	0.007503	0.002040	0.020398
22-Dec-2033	0.076454	13.442100	21.269000	3.122940	46.425191	1.816610	0.019663	0.191036	0.046234	0.003985	0.001903	0.133929	0.000659	0.013085	0.007532	0.002048	0.020477
23-Dec-2033	0.076428	13.498900	21.359000	3.136080	46.621131	1.824310	0.019746	0.191845	0.046429	0.004001	0.001911	0.134489	0.000662	0.013140	0.007564	0.002056	0.020564
24-Dec-2033	0.076400	13.560300	21.456000	3.150370	46.833293	1.832590	0.019836	0.192717	0.046640	0.004020	0.001920	0.135103	0.000665	0.013200	0.007598	0.002066	0.020657
25-Dec-2033	0.076361	13.612300	21.538400	3.162470	47.012965	1.839620	0.019912	0.193456	0.046820	0.004035	0.001927	0.135623	0.000667	0.013250	0.007627	0.002074	0.020736
26-Dec-2033	0.076242	13.665800	21.623100	3.174850	47.197535	1.846860	0.019990	0.194218	0.047003	0.004051	0.001935	0.136151	0.000670	0.013302	0.007657	0.002082	0.020818
27-Dec-2033	0.076227	13.711100	21.694600	3.185400	47.354094	1.852970	0.020056	0.194859	0.047159	0.004064	0.001941	0.136606	0.000672	0.013346	0.007682	0.002089	0.020887
28-Dec-2033	0.076175	13.757300	21.767700	3.196190	47.513889	1.859200	0.020124	0.195515	0.047318	0.004078	0.001948	0.137072	0.000674	0.013392	0.007708	0.002096	0.020957
29-Dec-2033	0.076091	13.841700	21.901300	3.215750	47.805183	1.870620	0.020247	0.196716	0.047608	0.004103	0.001960	0.137908	0.000678	0.013474	0.007756	0.002109	0.021086
30-Dec-2033	0.075979	13.915400	22.018000	3.232860	48.059671	1.880600	0.020355	0.197765	0.047861	0.004125	0.001970	0.138640	0.000682	0.013545	0.007797	0.002120	0.021198
31-Dec-2033	0.075973	13.984000	22.126500	3.248810	48.296648	1.889860	0.020456	0.198739	0.048097	0.004145	0.001980	0.139326	0.000685	0.013612	0.007835	0.002130	0.021303
1-Jan-2034	0.075907	14.075200	22.270700	3.270020	48.611717	1.902170	0.020589	0.200033	0.048411	0.004172	0.001993	0.140238	0.000690	0.013701	0.007886	0.002144	0.021441

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Sep-2021	12.000000	3.515000	3.600000	1.900000	16.601155	0.005000	0.001000	0.005000	0.014000	0.000240	0.001500	0.032000	0.000015	0.003500	0.001100	0.000250	0.002500
16-Sep-2021	11.186034	3.516620	3.601660	1.900880	16.608824	0.005002	0.001000	0.005002	0.014007	0.000240	0.001501	0.032015	0.000015	0.003502	0.001101	0.000250	0.002501
17-Sep-2021	10.863062	3.517400	3.602450	1.901300	16.612501	0.005003	0.001001	0.005003	0.014010	0.000240	0.001501	0.032022	0.000015	0.003502	0.001101	0.000250	0.002502
18-Sep-2021	10.394509	3.518170	3.603240	1.901710	16.616112	0.005005	0.001001	0.005005	0.014013	0.000240	0.001501	0.032029	0.000015	0.003503	0.001101	0.000250	0.002502
19-Sep-2021	10.091628	3.518850	3.603940	1.902080	16.619334	0.005005	0.001001	0.005005	0.014015	0.000240	0.001502	0.032035	0.000015	0.003504	0.001101	0.000250	0.002503
20-Sep-2021	9.822989	3.520090	3.605210	1.902750	16.625189	0.005007	0.001001	0.005007	0.014020	0.000240	0.001502	0.032046	0.000015	0.003505	0.001102	0.000250	0.002504
21-Sep-2021	9.229642	3.520090	3.605210	1.902750	16.625189	0.005007	0.001001	0.005007	0.014020	0.000240	0.001502	0.032046	0.000015	0.003505	0.001102	0.000250	0.002504
22-Sep-2021	8.865042	3.522300	3.607480	1.903950	16.635649	0.005010	0.001002	0.005010	0.014029	0.000240	0.001503	0.032067	0.000015	0.003507	0.001102	0.000251	0.002505
23-Sep-2021	8.534844	3.523120	3.608320	1.904390	16.639509	0.005012	0.001002	0.005012	0.014032	0.000241	0.001503	0.032074	0.000015	0.003508	0.001103	0.000251	0.002506
24-Sep-2021	8.472176	3.523370	3.608570	1.904530	16.640709	0.005012	0.001002	0.005012	0.014033	0.000241	0.001504	0.032076	0.000015	0.003508	0.001103	0.000251	0.002506
25-Sep-2021	7.882136	3.524170	3.609390	1.904960	16.644478	0.005013	0.001003	0.005013	0.014037	0.000241	0.001504	0.032084	0.000015	0.003509	0.001103	0.000251	0.002507
26-Sep-2021	6.794503	3.525630	3.610880	1.905740	16.651335	0.005015	0.001003	0.005015	0.014042	0.000241	0.001505	0.032097	0.000015	0.003511	0.001103	0.000251	0.002508
27-Sep-2021	6.029232	3.526770	3.612050	1.906360	16.656735	0.005017	0.001003	0.005017	0.014047	0.000241	0.001505	0.032107	0.000015	0.003512	0.001104	0.000251	0.002508
28-Sep-2021	5.381456	3.528220	3.613540	1.907140	16.663568	0.005019	0.001004	0.005019	0.014053	0.000241	0.001506	0.032120	0.000015	0.003513	0.001104	0.000251	0.002509
29-Sep-2021	5.220638	3.530300	3.615670	1.908270	16.673415	0.005022	0.001004	0.005022	0.014061	0.000241	0.001507	0.032139	0.000015	0.003515	0.001105	0.000251	0.002511
30-Sep-2021	5.007033	3.531430	3.616830	1.908880	16.678749	0.005023	0.001005	0.005023	0.014066	0.000241	0.001507	0.032150	0.000015	0.003516	0.001105	0.000251	0.002512
1-Oct-2021	4.753386	3.531930	3.617340	1.909150	16.681109	0.005024	0.001005	0.005024	0.014067	0.000241	0.001507	0.032154	0.000015	0.003517	0.001105	0.000251	0.002512
2-Oct-2021	4.531525	3.529650	3.615010	1.907920	16.670351	0.005021	0.001004	0.005021	0.014058	0.000241	0.001506	0.032133	0.000015	0.003515	0.001105	0.000251	0.002510
3-Oct-2021	4.425806	3.530770	3.616150	1.908530	16.675659	0.005022	0.001004	0.005022	0.014063	0.000241	0.001507	0.032144	0.000015	0.003516	0.001105	0.000251	0.002511
4-Oct-2021	4.531876	3.530500	3.615870	1.908380	16.674367	0.005022	0.001004	0.005022	0.014062	0.000241	0.001507	0.032141	0.000015	0.003515	0.001105	0.000251	0.002511
5-Oct-2021	3.833083	3.529890	3.615250	1.908050	16.671485	0.005021	0.001004	0.005021	0.014059	0.000241	0.001506	0.032136	0.000015	0.003515	0.001105	0.000251	0.002511
6-Oct-2021	3.091609	3.529640	3.614990	1.907910	16.670284	0.005021	0.001004	0.005021	0.014058	0.000241	0.001506	0.032133	0.000015	0.003515	0.001105	0.000251	0.002510
7-Oct-2021	2.765994	3.529880	3.615240	1.908040	16.671419	0.005021	0.001004	0.005021	0.014059	0.000241	0.001506	0.032135	0.000015	0.003515	0.001105	0.000251	0.002511
8-Oct-2021	2.233241	3.529040	3.614380	1.907590	16.667469	0.005020	0.001004	0.005020	0.014056	0.000241	0.001506	0.032128	0.000015	0.003514	0.001104	0.000251	0.002510
9-Oct-2021	1.244607	3.528380	3.613700	1.907230	16.664338	0.005019	0.001004	0.005019	0.014053	0.000241	0.001506	0.032122	0.000015	0.003513	0.001104	0.000251	0.002510
10-Oct-2021	0.122863	3.528360	3.613690	1.907220	16.664247	0.005019	0.001004	0.005019	0.014053	0.000241	0.001506	0.032122	0.000015	0.003513	0.001104	0.000251	0.002510
11-Oct-2021	0.170654	3.528070	3.613390	1.907070	16.662905	0.005019	0.001004	0.005019	0.014052	0.000241	0.001506	0.032119	0.000015	0.003513	0.001104	0.000251	0.002509
12-Oct-2021	0.188018	3.527950	3.613260	1.907000	16.662317	0.005018	0.001004	0.005018	0.014052	0.000241	0.001506	0.032118	0.000015	0.003513	0.001104	0.000251	0.002509
13-Oct-2021	0.283211	3.527240	3.612530	1.906610	16.658938	0.005017	0.001003	0.005017	0.014049	0.000241	0.001505	0.032111	0.000015	0.003512	0.001104	0.000251	0.002509
14-Oct-2021	0.044814	3.526050	3.611320	1.905970	16.653331	0.005016	0.001003	0.005016	0.014044	0.000241	0.001505	0.032101	0.000015	0.003511	0.001103	0.000251	0.002508
15-Oct-2021	0.032923	3.525660	3.610920	1.905760	16.651493	0.005015	0.001003	0.005015	0.014043	0.000241	0.001505	0.032097	0.000015	0.003511	0.001103	0.000251	0.002508
16-Oct-2021	0.049110	3.529480	3.614830	1.907830	16.669556	0.005021	0.001004	0.005021	0.014058	0.000241	0.001506	0.032132	0.000015	0.003514	0.001105	0.000251	0.002510
17-Oct-2021	0.057224	3.570660	3.657010	1.930090	16.864049	0.005079	0.001016	0.005079	0.014222	0.000244	0.001524	0.032507	0.000015	0.003555	0.001117	0.000254	0.002540
18-Oct-2021	0.059729	3.621580	3.709160	1.957610	17.104523	0.005152	0.001030	0.005152	0.014425	0.000247	0.001545	0.032970	0.000015	0.003606	0.001133	0.000258	0.002576
19-Oct-2021	0.061003	3.658970	3.747450	1.977820	17.281111	0.005205	0.001041	0.005205	0.014573	0.000250	0.001561	0.033311	0.000016	0.003643	0.001145	0.000260	0.002602
20-Oct-2021	0.061979	3.691800	3.781080	1.995570	17.436182	0.005251	0.001050	0.005251	0.014704	0.000252	0.001575	0.033610	0.000016	0.003676	0.001155	0.000263	0.002626
21-Oct-2021	0.062483	3.719180	3.809120	2.010370	17.565496	0.005290	0.001058	0.005290	0.014813	0.000254	0.001587	0.033859	0.000016	0.003703	0.001164	0.000265	0.002645
22-Oct-2021	0.062106	3.749930	3.840610	2.026990	17.710720	0.005334	0.001067	0.005334	0.014936	0.000256	0.001600	0.034139	0.000016	0.003734	0.001174	0.000267	0.002667
23-Oct-2021	0.061166	3.780910	3.872340	2.043740	17.857054	0.005378	0.001076	0.005378	0.015059	0.000258	0.001613	0.034421	0.000016	0.003765	0.001183	0.000269	0.002689
24-Oct-2021	0.060045	3.818320	3.910660	2.063960	18.033732	0.005431	0.001086	0.005431	0.015208	0.000261	0.001629	0.034761	0.000016	0.003802	0.001195	0.000272	0.002716
25-Oct-2021	0.059085	3.852930	3.946100	2.082670	18.197201	0.005481	0.001096	0.005481	0.015346	0.000263	0.001644	0.035077	0.000016	0.003836	0.001206	0.000274	0.002740
26-Oct-2021	0.058229	3.888590	3.982630	2.101940	18.365598	0.005531	0.001106	0.005531	0.015488	0.000266	0.001659	0.035401	0.000017	0.003872	0.001217	0.000277	0.002766
27-Oct-2021	0.057474	3.925630	4.020560	2.121960	18.540529	0.005584	0.001117	0.005584	0.015636	0.000268	0.001675	0.035738	0.000017	0.003909	0.001229	0.000279	0.002792
28-Oct-2021	0.057133	3.962730	4.058560	2.142020	18.715775	0.005637	0.001127	0.005637	0.015783	0.000271	0.001691	0.036076	0.000017	0.003946	0.001240	0.000282	0.002818
29-Oct-2021	0.056919	3.998710	4.095410	2.161460	18.885671	0.005688	0.001138	0.005688	0.015927	0.000273	0.001706	0.036404	0.000017	0.003982	0.001251	0.000284	0.002844
30-Oct-2021	0.056919	4.035930	4.133530	2.181580	19.061464	0.005741	0.001148	0.005741	0.016075	0.000276	0.001722	0.036743	0.000017	0.004019	0.001263	0.000287	0.002871
31-Oct-2021	0.056910	4.074220	4.172750	2.202280	19.242316	0.005795	0.001159	0.005795	0.016227	0.000278	0.001739	0.037091	0.000017	0.004057	0.001275	0.000290	0.002898
1-Nov-2021	0.056862	4.113820	4.213300	2.223680	19.429323	0.005852	0.001170	0.005852	0.016385	0.000281	0.001756	0.037452	0.000018	0.004096	0.001287	0.000293	0.002926
2-Nov-2021	0.056846	4.155010	4.255490	2.245950	19.623882	0.005910	0.001182	0.005910	0.016549	0.000284	0.001773	0.037827	0.000018	0.004137	0.001300	0.000296	0.002955
3-Nov-2021	0.056754	4.193590	4.294990	2.266800	19.806077	0.005965	0.001193	0.005965	0.016703	0.000286	0.001790	0.038178	0.000018	0.004176	0.001312	0.000298	0.002983
4-Nov-2021	0.056725	4.230170	4.332460	2.286580	19.978871	0.006017	0.001203	0.006017	0.016849	0.000289	0.001805	0.038511	0.000018	0.004212	0.001324	0.000301	0.003009
5-Nov-2021	0.056734	4.262700	4.365780	2.304160	20.132493	0.006064	0.001213	0.006064	0.016978	0.000291	0.001819	0.038807	0.000018	0.004245	0.001334	0.000303	0.003032

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Nov-2021	0.056769	4.294190	4.398030	2.321180	20.281212	0.006108	0.001222	0.006108	0.017103	0.000293	0.001833	0.039094	0.000018	0.004276	0.001344	0.000305	0.003054
7-Nov-2021	0.056684	4.328670	4.433340	2.339820	20.444068	0.006157	0.001231	0.006157	0.017241	0.000296	0.001847	0.039408	0.000018	0.004310	0.001355	0.000308	0.003079
8-Nov-2021	0.056595	4.366400	4.471990	2.360220	20.622287	0.006211	0.001242	0.006211	0.017391	0.000298	0.001863	0.039751	0.000019	0.004348	0.001366	0.000311	0.003106
9-Nov-2021	0.056602	4.416300	4.523090	2.387190	20.857950	0.006282	0.001256	0.006282	0.017590	0.000302	0.001885	0.040205	0.000019	0.004397	0.001382	0.000314	0.003141
10-Nov-2021	0.056720	4.470480	4.578590	2.416480	21.113853	0.006359	0.001272	0.006359	0.017806	0.000305	0.001908	0.040699	0.000019	0.004451	0.001399	0.000318	0.003180
11-Nov-2021	0.056781	4.523270	4.632650	2.445010	21.363156	0.006434	0.001287	0.006434	0.018016	0.000309	0.001930	0.041179	0.000019	0.004504	0.001416	0.000322	0.003217
12-Nov-2021	0.056913	4.576350	4.687020	2.473710	21.613884	0.006510	0.001302	0.006510	0.018227	0.000312	0.001953	0.041662	0.000020	0.004557	0.001432	0.000325	0.003255
13-Nov-2021	0.057041	4.623140	4.734940	2.499000	21.834863	0.006576	0.001315	0.006576	0.018414	0.000316	0.001973	0.042088	0.000020	0.004603	0.001447	0.000329	0.003288
14-Nov-2021	0.057223	4.654940	4.767500	2.516180	21.985014	0.006622	0.001324	0.006622	0.018540	0.000318	0.001986	0.042378	0.000020	0.004635	0.001457	0.000331	0.003311
15-Nov-2021	0.057392	4.685430	4.798730	2.532660	22.129013	0.006665	0.001333	0.006665	0.018662	0.000320	0.001999	0.042655	0.000020	0.004665	0.001466	0.000333	0.003332
16-Nov-2021	0.057694	4.718110	4.832200	2.550330	22.283380	0.006711	0.001342	0.006711	0.018792	0.000322	0.002013	0.042953	0.000020	0.004698	0.001477	0.000336	0.003356
17-Nov-2021	0.058002	4.757560	4.872610	2.571660	22.469723	0.006768	0.001354	0.006768	0.018949	0.000325	0.002030	0.043312	0.000020	0.004737	0.001489	0.000338	0.003384
18-Nov-2021	0.058348	4.798360	4.914390	2.593710	22.662403	0.006826	0.001365	0.006826	0.019112	0.000328	0.002048	0.043684	0.000020	0.004778	0.001502	0.000341	0.003413
19-Nov-2021	0.058558	4.846740	4.963940	2.619860	22.890893	0.006894	0.001379	0.006894	0.019304	0.000331	0.002068	0.044124	0.000021	0.004826	0.001517	0.000345	0.003447
20-Nov-2021	0.058750	4.898940	5.017400	2.648070	23.137405	0.006969	0.001394	0.006969	0.019512	0.000334	0.002091	0.044599	0.000021	0.004878	0.001533	0.000348	0.003484
21-Nov-2021	0.058834	4.948610	5.068280	2.674920	23.372000	0.007039	0.001408	0.007039	0.019710	0.000338	0.002112	0.045051	0.000021	0.004927	0.001549	0.000352	0.003520
22-Nov-2021	0.058779	4.999940	5.120850	2.702670	23.614445	0.007112	0.001422	0.007112	0.019914	0.000341	0.002134	0.045519	0.000021	0.004979	0.001565	0.000356	0.003556
23-Nov-2021	0.058719	5.044810	5.166810	2.726930	23.826388	0.007176	0.001435	0.007176	0.020093	0.000344	0.002153	0.045927	0.000022	0.005023	0.001579	0.000359	0.003588
24-Nov-2021	0.067459	4.715660	4.829690	2.549000	22.271785	0.006708	0.001342	0.006708	0.018782	0.000322	0.002012	0.042931	0.000020	0.004696	0.001476	0.000335	0.003354
25-Nov-2021	0.067340	4.645050	4.757380	2.510840	21.938329	0.006607	0.001321	0.006607	0.018501	0.000317	0.001982	0.042288	0.000020	0.004625	0.001454	0.000330	0.003304
26-Nov-2021	0.067118	4.662270	4.775010	2.520140	22.019625	0.006632	0.001326	0.006632	0.018570	0.000318	0.001990	0.042445	0.000020	0.004642	0.001459	0.000332	0.003316
27-Nov-2021	0.066965	4.686230	4.799550	2.533090	22.132781	0.006666	0.001333	0.006666	0.018665	0.000320	0.002000	0.042663	0.000020	0.004666	0.001467	0.000333	0.003333
28-Nov-2021	0.066851	4.711440	4.825380	2.546730	22.251900	0.006702	0.001340	0.006702	0.018765	0.000322	0.002011	0.042892	0.000020	0.004691	0.001474	0.000335	0.003351
29-Nov-2021	0.066709	4.737940	4.852510	2.561050	22.377040	0.006740	0.001348	0.006740	0.018871	0.000324	0.002022	0.043133	0.000020	0.004718	0.001483	0.000337	0.003370
30-Nov-2021	0.066496	4.773840	4.889280	2.580450	22.546572	0.006791	0.001358	0.006791	0.019014	0.000326	0.002037	0.043460	0.000020	0.004753	0.001494	0.000340	0.003395
1-Dec-2021	0.066159	4.796300	4.912280	2.592590	22.652647	0.006823	0.001365	0.006823	0.019103	0.000327	0.002047	0.043665	0.000020	0.004776	0.001501	0.000341	0.003411
2-Dec-2021	0.065781	4.814100	4.930510	2.602220	22.736750	0.006848	0.001370	0.006848	0.019174	0.000329	0.002054	0.043827	0.000021	0.004794	0.001507	0.000342	0.003424
3-Dec-2021	0.065442	4.831530	4.948370	2.611640	22.819064	0.006873	0.001375	0.006873	0.019244	0.000330	0.002062	0.043986	0.000021	0.004811	0.001512	0.000344	0.003436
4-Dec-2021	0.065179	4.852720	4.970070	2.623090	22.919126	0.006903	0.001381	0.006903	0.019328	0.000331	0.002071	0.044178	0.000021	0.004832	0.001519	0.000345	0.003451
5-Dec-2021	0.065007	4.876510	4.994440	2.635950	23.031488	0.006937	0.001387	0.006937	0.019423	0.000333	0.002081	0.044395	0.000021	0.004856	0.001526	0.000347	0.003468
6-Dec-2021	0.064762	4.902540	5.021100	2.650020	23.154425	0.006974	0.001395	0.006974	0.019527	0.000335	0.002092	0.044632	0.000021	0.004882	0.001534	0.000349	0.003487
7-Dec-2021	0.064532	4.940050	5.059510	2.670300	23.331600	0.007027	0.001405	0.007027	0.019676	0.000337	0.002108	0.044973	0.000021	0.004919	0.001546	0.000351	0.003514
8-Dec-2021	0.064173	4.978600	5.098990	2.691130	23.513638	0.007082	0.001416	0.007082	0.019829	0.000340	0.002125	0.045324	0.000021	0.004957	0.001558	0.000354	0.003541
9-Dec-2021	0.063831	5.022070	5.143510	2.714630	23.718955	0.007144	0.001429	0.007144	0.020003	0.000343	0.002143	0.045720	0.000021	0.005001	0.001572	0.000357	0.003572
10-Dec-2021	0.063563	5.046640	5.168680	2.727910	23.834993	0.007179	0.001436	0.007179	0.020100	0.000345	0.002154	0.045944	0.000022	0.005025	0.001579	0.000359	0.003589
11-Dec-2021	0.063677	5.023040	5.144510	2.715160	23.723560	0.007145	0.001429	0.007145	0.020006	0.000343	0.002144	0.045729	0.000021	0.005002	0.001572	0.000357	0.003573
12-Dec-2021	0.063693	5.009390	5.130520	2.707780	23.659085	0.007126	0.001425	0.007126	0.019952	0.000342	0.002138	0.045605	0.000021	0.004988	0.001568	0.000356	0.003563
13-Dec-2021	0.063767	5.007950	5.129050	2.707000	23.652277	0.007124	0.001425	0.007124	0.019946	0.000342	0.002137	0.045592	0.000021	0.004987	0.001567	0.000356	0.003562
14-Dec-2021	0.063854	5.017790	5.139130	2.712320	23.698755	0.007138	0.001428	0.007138	0.019986	0.000343	0.002141	0.045681	0.000021	0.004996	0.001570	0.000357	0.003569
15-Dec-2021	0.063931	5.106490	5.229980	2.760270	24.117697	0.007264	0.001453	0.007264	0.020339	0.000349	0.002179	0.046489	0.000022	0.005085	0.001598	0.000363	0.003632
16-Dec-2021	0.064116	5.044720	5.166710	2.726870	23.825917	0.007176	0.001435	0.007176	0.020093	0.000344	0.002153	0.045926	0.000022	0.005023	0.001579	0.000359	0.003588
17-Dec-2021	0.064068	5.066420	5.188940	2.738610	23.928447	0.007207	0.001441	0.007207	0.020179	0.000346	0.002162	0.046124	0.000022	0.005045	0.001586	0.000360	0.003603
18-Dec-2021	0.064050	5.088880	5.211940	2.750740	24.034481	0.007239	0.001448	0.007239	0.020269	0.000347	0.002172	0.046328	0.000022	0.005067	0.001593	0.000362	0.003619
19-Dec-2021	0.064042	5.110330	5.233910	2.762340	24.135810	0.007269	0.001454	0.007269	0.020354	0.000349	0.002181	0.046524	0.000022	0.005089	0.001599	0.000363	0.003635
20-Dec-2021	0.063822	5.129280	5.253320	2.772580	24.225297	0.007296	0.001459	0.007296	0.020430	0.000350	0.002189	0.046696	0.000022	0.005107	0.001605	0.000365	0.003648
21-Dec-2021	0.063886	5.146510	5.270970	2.781900	24.306700	0.007321	0.001464	0.007321	0.020498	0.000351	0.002196	0.046853	0.000022	0.005125	0.001611	0.000366	0.003660
22-Dec-2021	0.063961	5.162260	5.287100	2.790410	24.381072	0.007343	0.001469	0.007343	0.020561	0.000352	0.002203	0.046996	0.000022	0.005140	0.001616	0.000367	0.003672
23-Dec-2021	0.064032	5.172880	5.297970	2.796150	24.431227	0.007358	0.001472	0.007358	0.020603	0.000353	0.002207	0.047093	0.000022	0.005151	0.001619	0.000368	0.003679
24-Dec-2021	0.064080	5.179390	5.304640	2.799670	24.461978	0.007368	0.001474	0.007368	0.020629	0.000354	0.002210	0.047152	0.000022	0.005157	0.001621	0.000368	0.003684
25-Dec-2021	0.064070	5.187420	5.312860	2.804010	24.499901	0.007379	0.001476	0.007379	0.020661	0.000354	0.002214	0.047225	0.000022	0.005165	0.001623	0.000369	0.003689
26-Dec-2021	0.064031	5.191490	5.317030	2.806210	24.519123	0.007385	0.001477	0.007385	0.020677	0.000354	0.002215	0.047263	0.000022	0.005169	0.001625	0.000369	0.003692
27-Dec-2021	0.063977	5.191150	5.316680	2.806030	24.517533	0.007384	0.001477	0.007384	0.020676	0.000354	0.002215	0.047259	0.000022	0.005169	0.001625	0.000369	0.003692

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Dec-2021	0.064009	5.179320	5.304570	2.799630	24.461638	0.007367	0.001473	0.007367	0.020629	0.000354	0.002210	0.047152	0.000022	0.005157	0.001621	0.000368	0.003684
29-Dec-2021	0.064061	5.172420	5.297500	2.795900	24.429049	0.007358	0.001472	0.007358	0.020601	0.000353	0.002207	0.047089	0.000022	0.005150	0.001619	0.000368	0.003679
30-Dec-2021	0.064129	5.186880	5.312300	2.803720	24.497358	0.007378	0.001476	0.007378	0.020659	0.000354	0.002213	0.047221	0.000022	0.005165	0.001623	0.000369	0.003689
31-Dec-2021	0.064217	5.220560	5.346800	2.821920	24.656405	0.007426	0.001485	0.007426	0.020793	0.000356	0.002228	0.047527	0.000022	0.005198	0.001634	0.000371	0.003713
1-Jan-2022	0.064266	5.271190	5.398660	2.849290	24.895538	0.007498	0.001500	0.007498	0.020995	0.000360	0.002249	0.047988	0.000022	0.005249	0.001650	0.000375	0.003749
2-Jan-2022	0.064291	5.332310	5.461260	2.882330	25.184213	0.007585	0.001517	0.007585	0.021238	0.000364	0.002276	0.048545	0.000023	0.005310	0.001669	0.000379	0.003793
3-Jan-2022	0.064341	5.385200	5.515430	2.910920	25.434013	0.007660	0.001532	0.007660	0.021449	0.000368	0.002298	0.049026	0.000023	0.005362	0.001685	0.000383	0.003830
4-Jan-2022	0.064369	5.421690	5.552790	2.930640	25.606335	0.007712	0.001542	0.007712	0.021594	0.000370	0.002314	0.049358	0.000023	0.005399	0.001697	0.000386	0.003856
5-Jan-2022	0.064369	5.445210	5.576880	2.943350	25.717405	0.007746	0.001549	0.007746	0.021688	0.000372	0.002324	0.049572	0.000023	0.005422	0.001704	0.000387	0.003873
6-Jan-2022	0.064380	5.459370	5.591390	2.951010	25.784306	0.007766	0.001553	0.007766	0.021744	0.000373	0.002330	0.049701	0.000023	0.005436	0.001708	0.000388	0.003883
7-Jan-2022	0.064394	5.462280	5.594370	2.952580	25.798038	0.007770	0.001554	0.007770	0.021756	0.000373	0.002331	0.049728	0.000023	0.005439	0.001709	0.000388	0.003885
8-Jan-2022	0.064389	5.461490	5.593560	2.952160	25.794335	0.007769	0.001554	0.007769	0.021753	0.000373	0.002331	0.049721	0.000023	0.005438	0.001709	0.000388	0.003884
9-Jan-2022	0.064371	5.464210	5.596350	2.953630	25.807181	0.007773	0.001555	0.007773	0.021764	0.000373	0.002332	0.049745	0.000023	0.005441	0.001710	0.000389	0.003886
10-Jan-2022	0.064354	5.467690	5.599910	2.955510	25.823612	0.007778	0.001556	0.007778	0.021777	0.000373	0.002333	0.049777	0.000023	0.005444	0.001711	0.000389	0.003889
11-Jan-2022	0.064351	5.472920	5.605270	2.958340	25.848325	0.007785	0.001557	0.007785	0.021798	0.000374	0.002336	0.049825	0.000023	0.005450	0.001713	0.000389	0.003893
12-Jan-2022	0.064359	5.481090	5.613630	2.962750	25.886886	0.007797	0.001559	0.007797	0.021831	0.000374	0.002339	0.049899	0.000023	0.005458	0.001715	0.000390	0.003898
13-Jan-2022	0.064369	5.496940	5.629870	2.971320	25.961755	0.007819	0.001564	0.007819	0.021894	0.000375	0.002346	0.050043	0.000023	0.005473	0.001720	0.000391	0.003910
14-Jan-2022	0.064376	5.555520	5.689860	3.002980	26.238405	0.007903	0.001581	0.007903	0.022127	0.000379	0.002371	0.050577	0.000024	0.005532	0.001739	0.000395	0.003951
15-Jan-2022	0.064379	5.593980	5.729260	3.023770	26.420053	0.007957	0.001591	0.007957	0.022280	0.000382	0.002387	0.050927	0.000024	0.005570	0.001751	0.000398	0.003979
16-Jan-2022	0.064380	5.600930	5.736370	3.027530	26.452891	0.007967	0.001593	0.007967	0.022308	0.000382	0.002390	0.050990	0.000024	0.005577	0.001753	0.000398	0.003984
17-Jan-2022	0.064372	5.595250	5.730560	3.024460	26.426066	0.007959	0.001592	0.007959	0.022286	0.000382	0.002388	0.050938	0.000024	0.005571	0.001751	0.000398	0.003980
18-Jan-2022	0.064357	5.592630	5.727870	3.023040	26.413676	0.007955	0.001591	0.007955	0.022275	0.000382	0.002387	0.050914	0.000024	0.005569	0.001750	0.000398	0.003978
19-Jan-2022	0.064340	5.603070	5.738560	3.028690	26.463011	0.007970	0.001594	0.007970	0.022317	0.000383	0.002391	0.051010	0.000024	0.005579	0.001753	0.000399	0.003985
20-Jan-2022	0.064311	5.620450	5.756360	3.038080	26.545077	0.007995	0.001599	0.007995	0.022386	0.000384	0.002398	0.051168	0.000024	0.005596	0.001759	0.000400	0.003997
21-Jan-2022	0.064276	5.642860	5.779310	3.050190	26.650904	0.008027	0.001605	0.008027	0.022475	0.000385	0.002408	0.051372	0.000024	0.005619	0.001766	0.000401	0.004013
22-Jan-2022	0.064236	5.678520	5.815840	3.069470	26.819342	0.008078	0.001616	0.008078	0.022617	0.000388	0.002423	0.051696	0.000024	0.005654	0.001777	0.000404	0.004039
23-Jan-2022	0.064195	5.719610	5.857920	3.091680	27.013404	0.008136	0.001627	0.008136	0.022781	0.000391	0.002441	0.052070	0.000024	0.005695	0.001790	0.000407	0.004068
24-Jan-2022	0.064159	5.761400	5.900720	3.114270	27.210780	0.008195	0.001639	0.008195	0.022947	0.000393	0.002459	0.052451	0.000025	0.005737	0.001803	0.000410	0.004098
25-Jan-2022	0.064133	5.801980	5.942290	3.136210	27.402457	0.008253	0.001651	0.008253	0.023109	0.000396	0.002476	0.052820	0.000025	0.005777	0.001816	0.000413	0.004127
26-Jan-2022	0.064070	5.842300	5.983580	3.158000	27.592867	0.008311	0.001662	0.008311	0.023270	0.000399	0.002493	0.053187	0.000025	0.005817	0.001828	0.000416	0.004155
27-Jan-2022	0.064055	5.890840	6.033300	3.184240	27.822128	0.008380	0.001676	0.008380	0.023463	0.000402	0.002514	0.053629	0.000025	0.005866	0.001844	0.000419	0.004190
28-Jan-2022	0.064041	5.943850	6.087580	3.212890	28.072474	0.008455	0.001691	0.008455	0.023674	0.000406	0.002536	0.054112	0.000025	0.005918	0.001860	0.000423	0.004227
29-Jan-2022	0.064042	5.984070	6.128770	3.234630	28.262429	0.008512	0.001702	0.008512	0.023834	0.000409	0.002554	0.054478	0.000026	0.005959	0.001873	0.000426	0.004256
30-Jan-2022	0.064051	5.990490	6.135360	3.238100	28.292749	0.008521	0.001704	0.008521	0.023860	0.000409	0.002556	0.054537	0.000026	0.005965	0.001875	0.000426	0.004261
31-Jan-2022	0.064095	5.853600	5.995160	3.164110	27.646244	0.008327	0.001665	0.008327	0.023315	0.000400	0.002498	0.053290	0.000025	0.005829	0.001832	0.000416	0.004163
1-Feb-2022	0.064135	5.741030	5.879860	3.103260	27.114577	0.008166	0.001633	0.008166	0.022866	0.000392	0.002450	0.052265	0.000024	0.005717	0.001797	0.000408	0.004083
2-Feb-2022	0.064151	5.696610	5.834370	3.079250	26.904787	0.008103	0.001621	0.008103	0.022689	0.000389	0.002431	0.051861	0.000024	0.005672	0.001783	0.000405	0.004052
3-Feb-2022	0.064155	5.748880	5.887900	3.107500	27.151638	0.008178	0.001636	0.008178	0.022897	0.000393	0.002453	0.052337	0.000025	0.005724	0.001799	0.000409	0.004089
4-Feb-2022	0.064142	5.801490	5.941780	3.135940	27.400121	0.008252	0.001651	0.008252	0.023107	0.000396	0.002476	0.052816	0.000025	0.005777	0.001816	0.000413	0.004126
5-Feb-2022	0.064121	5.863380	6.005170	3.169390	27.692408	0.008341	0.001668	0.008341	0.023353	0.000400	0.002502	0.053379	0.000025	0.005838	0.001835	0.000417	0.004170
6-Feb-2022	0.064087	5.914430	6.057450	3.196990	27.933537	0.008413	0.001683	0.008413	0.023557	0.000404	0.002524	0.053844	0.000025	0.005889	0.001851	0.000421	0.004207
7-Feb-2022	0.064059	5.964470	6.108700	3.224040	28.169878	0.008484	0.001697	0.008484	0.023756	0.000407	0.002545	0.054300	0.000025	0.005939	0.001867	0.000424	0.004242
8-Feb-2022	0.064036	6.014460	6.159910	3.251060	28.405972	0.008555	0.001711	0.008555	0.023955	0.000411	0.002567	0.054755	0.000026	0.005989	0.001882	0.000428	0.004278
9-Feb-2022	0.064006	6.065920	6.212600	3.278870	28.648989	0.008629	0.001726	0.008629	0.024160	0.000414	0.002589	0.055223	0.000026	0.006040	0.001898	0.000431	0.004314
10-Feb-2022	0.063973	6.124230	6.272320	3.310390	28.924388	0.008712	0.001742	0.008712	0.024392	0.000418	0.002613	0.055754	0.000026	0.006098	0.001917	0.000436	0.004356
11-Feb-2022	0.063961	6.173670	6.322960	3.337120	29.157914	0.008782	0.001756	0.008782	0.024589	0.000422	0.002635	0.056204	0.000026	0.006147	0.001932	0.000439	0.004391
12-Feb-2022	0.063961	6.227290	6.377880	3.366100	29.411143	0.008858	0.001772	0.008858	0.024803	0.000425	0.002657	0.056692	0.000027	0.006201	0.001949	0.000443	0.004429
13-Feb-2022	0.063961	6.278240	6.430060	3.393640	29.651775	0.008931	0.001786	0.008931	0.025006	0.000429	0.002679	0.057156	0.000027	0.006251	0.001965	0.000447	0.004465
14-Feb-2022	0.063953	6.325370	6.478330	3.419120	29.874385	0.008998	0.001800	0.008998	0.025194	0.000432	0.002699	0.057585	0.000027	0.006298	0.001979	0.000450	0.004499
15-Feb-2022	0.063944	6.369890	6.523920	3.443180	30.084631	0.009061	0.001812	0.009061	0.025371	0.000435	0.002718	0.057990	0.000027	0.006343	0.001993	0.000453	0.004531
16-Feb-2022	0.063933	6.407170	6.562110	3.463330	30.260696	0.009114	0.001823	0.009114	0.025519	0.000437	0.002734	0.058330	0.000027	0.006380	0.002005	0.000456	0.004557
17-Feb-2022	0.063923	6.412250	6.567310	3.466080	30.284706	0.009121	0.001824	0.009121	0.025540	0.000438	0.002736	0.058376	0.000027	0.006385	0.002007	0.000456	0.004561

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Feb-2022	0.063920	6.408650	6.563630	3.464140	30.267728	0.009116	0.001823	0.009116	0.025525	0.000438	0.002735	0.058343	0.000027	0.006381	0.002006	0.000456	0.004558
19-Feb-2022	0.063924	6.426210	6.581610	3.473620	30.350614	0.009141	0.001828	0.009141	0.025595	0.000439	0.002742	0.058503	0.000027	0.006399	0.002011	0.000457	0.004571
20-Feb-2022	0.063922	6.494240	6.651280	3.510400	30.671944	0.009238	0.001848	0.009238	0.025866	0.000443	0.002771	0.059123	0.000028	0.006467	0.002032	0.000462	0.004619
21-Feb-2022	0.063910	6.550280	6.708680	3.540690	30.936611	0.009318	0.001864	0.009318	0.026089	0.000447	0.002795	0.059633	0.000028	0.006522	0.002050	0.000466	0.004659
22-Feb-2022	0.063879	6.614860	6.774830	3.575600	31.241626	0.009409	0.001882	0.009409	0.026347	0.000452	0.002823	0.060221	0.000028	0.006587	0.002070	0.000470	0.004705
23-Feb-2022	0.063878	6.684820	6.846480	3.613420	31.572059	0.009509	0.001902	0.009509	0.026625	0.000456	0.002853	0.060858	0.000029	0.006656	0.002092	0.000475	0.004755
24-Feb-2022	0.063871	6.755670	6.919030	3.651710	31.906650	0.009610	0.001922	0.009610	0.026907	0.000461	0.002883	0.061503	0.000029	0.006727	0.002114	0.000480	0.004805
25-Feb-2022	0.063852	6.826730	6.991810	3.690120	32.242259	0.009711	0.001942	0.009711	0.027190	0.000466	0.002913	0.062149	0.000029	0.006798	0.002136	0.000486	0.004855
26-Feb-2022	0.063877	6.896460	7.063230	3.727820	32.571623	0.009810	0.001962	0.009810	0.027468	0.000471	0.002943	0.062784	0.000029	0.006867	0.002158	0.000491	0.004905
27-Feb-2022	0.063864	6.967540	7.136020	3.766240	32.907324	0.009911	0.001982	0.009911	0.027751	0.000476	0.002973	0.063431	0.000030	0.006938	0.002180	0.000496	0.004956
28-Feb-2022	0.063850	6.976440	7.145140	3.771050	32.949355	0.009924	0.001985	0.009924	0.027787	0.000476	0.002977	0.063512	0.000030	0.006947	0.002183	0.000496	0.004962
1-Mar-2022	0.063837	7.053540	7.224110	3.812730	33.313512	0.010034	0.002007	0.010034	0.028094	0.000482	0.003010	0.064214	0.000030	0.007023	0.002207	0.000502	0.005017
2-Mar-2022	0.063821	7.134860	7.307400	3.856680	33.697554	0.010149	0.002030	0.010149	0.028418	0.000487	0.003045	0.064955	0.000030	0.007104	0.002233	0.000507	0.005075
3-Mar-2022	0.063809	7.212420	7.386830	3.898600	34.063848	0.010260	0.002052	0.010260	0.028727	0.000492	0.003078	0.065661	0.000031	0.007182	0.002257	0.000513	0.005130
4-Mar-2022	0.063794	7.257710	7.433220	3.923090	34.277786	0.010324	0.002065	0.010324	0.028907	0.000496	0.003097	0.066073	0.000031	0.007227	0.002271	0.000516	0.005162
5-Mar-2022	0.063766	7.335920	7.513320	3.965360	34.647145	0.010435	0.002087	0.010435	0.029219	0.000501	0.003131	0.066785	0.000031	0.007305	0.002296	0.000522	0.005218
6-Mar-2022	0.063735	7.433550	7.613310	4.018130	35.108234	0.010574	0.002115	0.010574	0.029607	0.000508	0.003172	0.067674	0.000032	0.007402	0.002326	0.000529	0.005287
7-Mar-2022	0.063718	7.484860	7.665860	4.045870	35.350588	0.010647	0.002129	0.010647	0.029812	0.000511	0.003194	0.068141	0.000032	0.007453	0.002342	0.000532	0.005324
8-Mar-2022	0.063707	7.591140	7.774710	4.103320	35.852548	0.010798	0.002160	0.010798	0.030235	0.000518	0.003239	0.069109	0.000032	0.007559	0.002376	0.000540	0.005399
9-Mar-2022	0.063700	7.643750	7.828600	4.131760	36.101031	0.010873	0.002175	0.010873	0.030445	0.000522	0.003262	0.069588	0.000033	0.007611	0.002392	0.000544	0.005437
10-Mar-2022	0.063694	7.739730	7.926890	4.183640	36.554335	0.011010	0.002202	0.011010	0.030827	0.000528	0.003303	0.070461	0.000033	0.007707	0.002422	0.000550	0.005505
11-Mar-2022	0.063687	7.792800	7.981240	4.212320	36.804955	0.011085	0.002217	0.011085	0.031038	0.000532	0.003326	0.070944	0.000033	0.007760	0.002439	0.000554	0.005543
12-Mar-2022	0.063679	7.875460	8.065910	4.257010	37.195391	0.011203	0.002241	0.011203	0.031367	0.000538	0.003361	0.071697	0.000034	0.007842	0.002465	0.000560	0.005601
13-Mar-2022	0.063709	6.400830	6.555610	3.459910	30.230782	0.009105	0.001821	0.009105	0.025494	0.000437	0.002732	0.058272	0.000027	0.006374	0.002003	0.000455	0.004553
14-Mar-2022	0.063703	6.440380	6.596130	3.481290	30.417581	0.009161	0.001832	0.009161	0.025652	0.000440	0.002748	0.058632	0.000027	0.006413	0.002015	0.000458	0.004581
15-Mar-2022	0.063699	6.476710	6.633330	3.500920	30.589133	0.009213	0.001843	0.009213	0.025796	0.000442	0.002764	0.058963	0.000028	0.006449	0.002027	0.000461	0.004606
16-Mar-2022	0.063695	6.511170	6.668620	3.519550	30.751898	0.009262	0.001852	0.009262	0.025934	0.000445	0.002779	0.059277	0.000028	0.006483	0.002038	0.000463	0.004631
17-Mar-2022	0.063690	6.534920	6.692950	3.532390	30.864077	0.009296	0.001859	0.009296	0.026028	0.000446	0.002789	0.059493	0.000028	0.006507	0.002045	0.000465	0.004648
18-Mar-2022	0.063682	6.526150	6.683960	3.527650	30.822659	0.009283	0.001857	0.009283	0.025993	0.000446	0.002785	0.059413	0.000028	0.006498	0.002042	0.000464	0.004642
19-Mar-2022	0.063676	6.487450	6.644330	3.506730	30.639877	0.009228	0.001846	0.009228	0.025839	0.000443	0.002768	0.059061	0.000028	0.006460	0.002030	0.000461	0.004614
20-Mar-2022	0.063672	6.464970	6.621310	3.494580	30.533711	0.009196	0.001839	0.009196	0.025750	0.000441	0.002759	0.058856	0.000028	0.006437	0.002023	0.000460	0.004598
21-Mar-2022	0.063669	6.484920	6.641740	3.505360	30.627918	0.009225	0.001845	0.009225	0.025829	0.000443	0.002767	0.059038	0.000028	0.006457	0.002029	0.000461	0.004612
22-Mar-2022	0.063663	6.523880	6.681640	3.526420	30.811926	0.009280	0.001856	0.009280	0.025984	0.000445	0.002784	0.059392	0.000028	0.006496	0.002042	0.000464	0.004640
23-Mar-2022	0.063656	6.567960	6.726780	3.550250	31.020126	0.009343	0.001869	0.009343	0.026160	0.000448	0.002803	0.059794	0.000028	0.006540	0.002055	0.000467	0.004671
24-Mar-2022	0.063648	6.616560	6.776560	3.576520	31.249660	0.009412	0.001882	0.009412	0.026353	0.000452	0.002824	0.060236	0.000028	0.006588	0.002071	0.000471	0.004706
25-Mar-2022	0.063640	6.676260	6.837700	3.608790	31.531618	0.009497	0.001899	0.009497	0.026591	0.000456	0.002849	0.060780	0.000028	0.006648	0.002089	0.000475	0.004748
26-Mar-2022	0.063631	6.722710	6.885280	3.633900	31.751007	0.009563	0.001913	0.009563	0.026776	0.000459	0.002869	0.061203	0.000029	0.006694	0.002104	0.000478	0.004781
27-Mar-2022	0.063624	6.761430	6.924940	3.654830	31.933881	0.009618	0.001924	0.009618	0.026930	0.000462	0.002885	0.061555	0.000029	0.006733	0.002116	0.000481	0.004809
28-Mar-2022	0.063616	6.806040	6.970630	3.678940	32.144557	0.009681	0.001936	0.009681	0.027108	0.000465	0.002904	0.061961	0.000029	0.006777	0.002130	0.000484	0.004841
29-Mar-2022	0.063607	6.828520	6.993650	3.691090	32.250723	0.009713	0.001943	0.009713	0.027198	0.000466	0.002914	0.062166	0.000029	0.006799	0.002137	0.000486	0.004857
30-Mar-2022	0.063596	6.837720	7.003070	3.696060	32.294162	0.009726	0.001945	0.009726	0.027234	0.000467	0.002918	0.062250	0.000029	0.006809	0.002140	0.000486	0.004863
31-Mar-2022	0.063586	6.844330	7.009840	3.699640	32.325410	0.009736	0.001947	0.009736	0.027261	0.000467	0.002921	0.062310	0.000029	0.006815	0.002142	0.000487	0.004868
1-Apr-2022	0.063574	6.838830	7.004210	3.696670	32.299446	0.009728	0.001946	0.009728	0.027239	0.000467	0.002918	0.062260	0.000029	0.006810	0.002140	0.000486	0.004864
2-Apr-2022	0.063562	6.806050	6.970630	3.678940	32.144582	0.009681	0.001936	0.009681	0.027108	0.000465	0.002904	0.061961	0.000029	0.006777	0.002130	0.000484	0.004841
3-Apr-2022	0.063554	6.780330	6.944300	3.665050	32.023160	0.009645	0.001929	0.009645	0.027006	0.000463	0.002893	0.061727	0.000029	0.006751	0.002122	0.000482	0.004822
4-Apr-2022	0.063546	6.772270	6.936040	3.660690	31.985080	0.009633	0.001927	0.009633	0.026974	0.000462	0.002890	0.061654	0.000029	0.006743	0.002119	0.000482	0.004817
5-Apr-2022	0.063539	6.763370	6.926920	3.655880	31.943049	0.009621	0.001924	0.009621	0.026938	0.000462	0.002886	0.061573	0.000029	0.006735	0.002117	0.000481	0.004810
6-Apr-2022	0.063533	6.751510	6.914780	3.649470	31.887038	0.009604	0.001921	0.009604	0.026891	0.000461	0.002881	0.061465	0.000029	0.006723	0.002113	0.000480	0.004802
7-Apr-2022	0.063526	6.740090	6.903070	3.643290	31.833073	0.009588	0.001918	0.009588	0.026845	0.000460	0.002876	0.061361	0.000029	0.006711	0.002109	0.000479	0.004794
8-Apr-2022	0.063520	6.718300	6.880760	3.631510	31.730153	0.009557	0.001911	0.009557	0.026759	0.000459	0.002867	0.061162	0.000029	0.006690	0.002102	0.000478	0.004778
9-Apr-2022	0.063515	6.687990	6.849720	3.615130	31.587016	0.009514	0.001903	0.009514	0.026638	0.000457	0.002854	0.060886	0.000029	0.006659	0.002093	0.000476	0.004757
10-Apr-2022	0.063508	6.652580	6.813460	3.595990	31.419779	0.009463	0.001893	0.009463	0.026497	0.000454	0.002839	0.060564	0.000028	0.006624	0.002082	0.000473	0.004732

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Apr-2022	0.063502	6.621260	6.781380	3.579060	31.271855	0.009419	0.001884	0.009419	0.026372	0.000452	0.002826	0.060279	0.000028	0.006593	0.002072	0.000471	0.004709
12-Apr-2022	0.063496	6.593920	6.753370	3.564280	31.142723	0.009380	0.001876	0.009380	0.026263	0.000450	0.002814	0.060030	0.000028	0.006566	0.002064	0.000469	0.004690
13-Apr-2022	0.063491	6.560430	6.719080	3.546180	30.984563	0.009332	0.001866	0.009332	0.026130	0.000448	0.002800	0.059725	0.000028	0.006532	0.002053	0.000467	0.004666
14-Apr-2022	0.063486	6.529560	6.687460	3.529490	30.838751	0.009288	0.001858	0.009288	0.026007	0.000446	0.002786	0.059444	0.000028	0.006502	0.002043	0.000464	0.004644
15-Apr-2022	0.063482	6.507260	6.664620	3.517440	30.733446	0.009256	0.001851	0.009256	0.025918	0.000444	0.002777	0.059241	0.000028	0.006479	0.002036	0.000463	0.004628
16-Apr-2022	0.063476	6.488510	6.645420	3.507300	30.644871	0.009230	0.001846	0.009230	0.025843	0.000443	0.002769	0.059070	0.000028	0.006461	0.002031	0.000461	0.004615
17-Apr-2022	0.063469	6.466790	6.623170	3.495560	30.542291	0.009199	0.001840	0.009199	0.025757	0.000442	0.002760	0.058873	0.000028	0.006439	0.002024	0.000460	0.004599
18-Apr-2022	0.063461	6.443870	6.599700	3.483180	30.434079	0.009166	0.001833	0.009166	0.025666	0.000440	0.002750	0.058664	0.000027	0.006416	0.002017	0.000458	0.004583
19-Apr-2022	0.063455	6.424720	6.580080	3.472820	30.343599	0.009139	0.001828	0.009139	0.025589	0.000439	0.002742	0.058490	0.000027	0.006397	0.002011	0.000457	0.004570
20-Apr-2022	0.063449	6.405460	6.560360	3.462410	30.252638	0.009112	0.001822	0.009112	0.025513	0.000437	0.002733	0.058314	0.000027	0.006378	0.002005	0.000456	0.004556
21-Apr-2022	0.063444	6.387130	6.541580	3.452500	30.166059	0.009086	0.001817	0.009086	0.025440	0.000436	0.002726	0.058147	0.000027	0.006360	0.001999	0.000454	0.004543
22-Apr-2022	0.063440	6.377700	6.531930	3.447410	30.121551	0.009072	0.001814	0.009072	0.025402	0.000435	0.002722	0.058062	0.000027	0.006350	0.001996	0.000454	0.004536
23-Apr-2022	0.063436	6.373010	6.527120	3.444870	30.099381	0.009065	0.001813	0.009065	0.025383	0.000435	0.002720	0.058019	0.000027	0.006346	0.001994	0.000453	0.004533
24-Apr-2022	0.063433	6.366390	6.520340	3.441290	30.068108	0.009056	0.001811	0.009056	0.025357	0.000435	0.002717	0.057959	0.000027	0.006339	0.001992	0.000453	0.004528
25-Apr-2022	0.063430	6.360370	6.514180	3.438040	30.039693	0.009047	0.001809	0.009047	0.025333	0.000434	0.002714	0.057904	0.000027	0.006333	0.001990	0.000452	0.004524
26-Apr-2022	0.063426	6.355940	6.509640	3.435640	30.018748	0.009041	0.001808	0.009041	0.025315	0.000434	0.002712	0.057864	0.000027	0.006329	0.001989	0.000452	0.004521
27-Apr-2022	0.063421	6.352700	6.506330	3.433890	30.003451	0.009037	0.001807	0.009037	0.025302	0.000434	0.002711	0.057834	0.000027	0.006326	0.001988	0.000452	0.004518
28-Apr-2022	0.063416	6.353520	6.507160	3.434340	30.007352	0.009038	0.001808	0.009038	0.025306	0.000434	0.002711	0.057841	0.000027	0.006326	0.001988	0.000452	0.004519
29-Apr-2022	0.063412	6.354050	6.507710	3.434620	30.009828	0.009038	0.001808	0.009038	0.025308	0.000434	0.002712	0.057846	0.000027	0.006327	0.001988	0.000452	0.004519
30-Apr-2022	0.063424	6.351340	6.504930	3.433160	29.997049	0.009035	0.001807	0.009035	0.025297	0.000434	0.002710	0.057822	0.000027	0.006324	0.001988	0.000452	0.004517
1-May-2022	0.063583	6.350350	6.503910	3.432620	29.992353	0.009033	0.001807	0.009033	0.025293	0.000434	0.002710	0.057813	0.000027	0.006323	0.001987	0.000452	0.004517
2-May-2022	0.064514	6.347720	6.501220	3.431200	29.979938	0.009029	0.001806	0.009029	0.025283	0.000433	0.002709	0.057789	0.000027	0.006321	0.001986	0.000451	0.004515
3-May-2022	0.068129	6.328570	6.481610	3.420850	29.889500	0.009002	0.001800	0.009002	0.025206	0.000432	0.002701	0.057614	0.000027	0.006302	0.001980	0.000450	0.004501
4-May-2022	0.072278	6.284260	6.436230	3.396900	29.680231	0.008939	0.001788	0.008939	0.025030	0.000429	0.002682	0.057211	0.000027	0.006257	0.001967	0.000447	0.004470
5-May-2022	0.076525	6.251310	6.402480	3.379080	29.524573	0.008892	0.001778	0.008892	0.024899	0.000427	0.002668	0.056911	0.000027	0.006225	0.001956	0.000445	0.004446
6-May-2022	0.081213	6.244200	6.395200	3.375240	29.491006	0.008882	0.001776	0.008882	0.024870	0.000426	0.002665	0.056846	0.000027	0.006218	0.001954	0.000444	0.004441
7-May-2022	0.084884	6.236600	6.387410	3.371130	29.455104	0.008871	0.001774	0.008871	0.024840	0.000426	0.002661	0.056777	0.000027	0.006210	0.001952	0.000444	0.004436
8-May-2022	0.088706	6.226460	6.377030	3.365650	29.407217	0.008857	0.001771	0.008857	0.024800	0.000425	0.002657	0.056685	0.000027	0.006200	0.001949	0.000443	0.004428
9-May-2022	0.092336	6.216040	6.366360	3.360020	29.358014	0.008842	0.001768	0.008842	0.024758	0.000424	0.002653	0.056590	0.000027	0.006190	0.001945	0.000442	0.004421
10-May-2022	0.101198	6.205430	6.355490	3.354290	29.307925	0.008827	0.001765	0.008827	0.024716	0.000424	0.002648	0.056493	0.000026	0.006179	0.001942	0.000441	0.004414
11-May-2022	0.104687	6.188950	6.338610	3.345380	29.230083	0.008804	0.001761	0.008804	0.024650	0.000423	0.002641	0.056343	0.000026	0.006163	0.001937	0.000440	0.004402
12-May-2022	0.107343	6.171720	6.320970	3.336070	29.148721	0.008779	0.001756	0.008779	0.024582	0.000421	0.002634	0.056186	0.000026	0.006145	0.001931	0.000439	0.004390
13-May-2022	0.121380	6.154860	6.303690	3.326950	29.069066	0.008755	0.001751	0.008755	0.024514	0.000420	0.002627	0.056033	0.000026	0.006129	0.001926	0.000438	0.004378
14-May-2022	0.123373	6.141410	6.289930	3.319680	29.005543	0.008736	0.001747	0.008736	0.024461	0.000419	0.002621	0.055910	0.000026	0.006115	0.001922	0.000437	0.004368
15-May-2022	0.132036	6.128560	6.276760	3.312740	28.944878	0.008718	0.001744	0.008718	0.024410	0.000418	0.002615	0.055793	0.000026	0.006102	0.001918	0.000436	0.004359
16-May-2022	0.141567	6.123860	6.271950	3.310190	28.922641	0.008711	0.001742	0.008711	0.024391	0.000418	0.002613	0.055751	0.000026	0.006098	0.001916	0.000436	0.004356
17-May-2022	0.173125	6.119580	6.267560	3.307880	28.902441	0.008705	0.001741	0.008705	0.024374	0.000418	0.002611	0.055712	0.000026	0.006093	0.001915	0.000435	0.004352
18-May-2022	0.175684	6.107990	6.255700	3.301620	28.847722	0.008688	0.001738	0.008688	0.024328	0.000417	0.002607	0.055606	0.000026	0.006082	0.001911	0.000434	0.004344
19-May-2022	0.179379	6.067560	6.214280	3.279760	28.656749	0.008631	0.001726	0.008631	0.024167	0.000414	0.002589	0.055238	0.000026	0.006042	0.001899	0.000432	0.004315
20-May-2022	0.183634	6.026260	6.171990	3.257440	28.461709	0.008572	0.001714	0.008572	0.024002	0.000411	0.002572	0.054862	0.000026	0.006001	0.001886	0.000429	0.004286
21-May-2022	0.190481	5.993280	6.138210	3.239610	28.305934	0.008525	0.001705	0.008525	0.023871	0.000409	0.002558	0.054562	0.000026	0.005968	0.001876	0.000426	0.004263
22-May-2022	0.190554	5.812010	5.952550	3.141620	27.449780	0.008268	0.001654	0.008268	0.023149	0.000397	0.002480	0.052912	0.000025	0.005787	0.001819	0.000413	0.004134
23-May-2022	0.193717	5.819580	5.960310	3.145710	27.485525	0.008280	0.001656	0.008279	0.023180	0.000397	0.002483	0.052982	0.000025	0.005795	0.001821	0.000414	0.004139
24-May-2022	0.199219	5.407170	5.537900	2.922750	25.537588	0.007700	0.001539	0.007697	0.021540	0.000369	0.002307	0.049231	0.000023	0.005384	0.001692	0.000385	0.003846
25-May-2022	0.185083	5.283080	5.410810	2.855660	24.951459	0.007525	0.001504	0.007521	0.021046	0.000361	0.002255	0.048103	0.000023	0.005261	0.001653	0.000376	0.003758
26-May-2022	0.188802	5.049370	5.171430	2.729300	23.847534	0.007197	0.001437	0.007191	0.020118	0.000345	0.002155	0.045979	0.000022	0.005028	0.001580	0.000359	0.003592
27-May-2022	0.194663	4.909150	5.027810	2.653490	23.185219	0.006999	0.001397	0.006993	0.019560	0.000335	0.002095	0.044704	0.000021	0.004889	0.001536	0.000349	0.003492
28-May-2022	0.199645	4.837420	4.954340	2.614700	22.846372	0.006899	0.001377	0.006892	0.019275	0.000330	0.002064	0.044052	0.000021	0.004818	0.001514	0.000344	0.003441
29-May-2022	0.204215	4.777700	4.893180	2.582420	22.564322	0.006812	0.001360	0.006806	0.019037	0.000326	0.002039	0.043509	0.000020	0.004758	0.001495	0.000340	0.003398
30-May-2022	0.210699	4.758690	4.873710	2.572140	22.474521	0.006785	0.001355	0.006779	0.018962	0.000325	0.002031	0.043337	0.000020	0.004739	0.001489	0.000338	0.003385
31-May-2022	0.226261	4.750630	4.865450	2.567780	22.436441	0.006773	0.001352	0.006767	0.018930	0.000324	0.002027	0.043264	0.000020	0.004731	0.001487	0.000338	0.003379
1-Jun-2022	0.234039	4.743220	4.857850	2.563760	22.401384	0.006765	0.001350	0.006758	0.018901	0.000324	0.002024	0.043197	0.000020	0.004724	0.001485	0.000337	0.003374

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Jun-2022	0.244780	4.723550	4.837640	2.552980	22.307876	0.010396	0.001398	0.008433	0.018834	0.000323	0.002016	0.043036	0.000020	0.004705	0.001479	0.000336	0.003361
3-Jun-2022	0.257820	4.689750	4.803040	2.534770	22.148489	0.026420	0.002155	0.018465	0.018749	0.000321	0.002002	0.042807	0.000020	0.004676	0.001469	0.000334	0.003343
4-Jun-2022	0.295892	4.647080	4.756260	2.505090	21.919719	0.036353	0.002799	0.024980	0.019962	0.000320	0.001986	0.044142	0.000022	0.004671	0.001463	0.000345	0.003452
5-Jun-2022	0.341864	4.422870	4.516510	2.362170	20.771322	0.127729	0.007313	0.081363	0.023929	0.000316	0.001901	0.048672	0.000028	0.004695	0.001429	0.000382	0.003822
6-Jun-2022	0.401890	4.661380	4.764330	2.499780	21.933560	0.134800	0.007652	0.085642	0.024044	0.000323	0.001999	0.048581	0.000028	0.004797	0.001484	0.000382	0.003817
7-Jun-2022	0.460863	4.353500	4.445070	2.326920	20.452946	0.139436	0.007864	0.088458	0.023939	0.000306	0.001870	0.048323	0.000028	0.004591	0.001396	0.000380	0.003795
8-Jun-2022	0.535256	4.187010	4.266460	2.222070	19.605448	0.140182	0.007899	0.088872	0.023928	0.000301	0.001806	0.048293	0.000028	0.004541	0.001377	0.000379	0.003794
9-Jun-2022	0.642677	3.928020	3.992810	2.068620	18.326843	0.141053	0.007947	0.089404	0.024117	0.000296	0.001706	0.048442	0.000028	0.004491	0.001328	0.000381	0.003807
10-Jun-2022	0.806879	3.781380	3.832700	1.958200	17.505973	0.141925	0.007989	0.089895	0.024128	0.000293	0.001654	0.048421	0.000028	0.004469	0.001306	0.000381	0.003806
11-Jun-2022	1.012612	3.686610	3.734580	1.913920	17.086988	0.145405	0.008152	0.091729	0.024222	0.000292	0.001620	0.048487	0.000029	0.004459	0.001299	0.000381	0.003811
12-Jun-2022	1.229278	3.628720	3.674530	1.875250	16.783193	0.151556	0.008452	0.095208	0.024486	0.000291	0.001598	0.048750	0.000029	0.004447	0.001292	0.000383	0.003832
13-Jun-2022	1.413431	3.589980	3.630550	1.844300	16.559007	0.159173	0.008828	0.099767	0.024841	0.000290	0.001586	0.049184	0.000030	0.004443	0.001287	0.000387	0.003867
14-Jun-2022	1.593460	3.558960	3.594160	1.819460	16.379259	0.166288	0.009181	0.104303	0.025199	0.000289	0.001573	0.049659	0.000030	0.004448	0.001283	0.000391	0.003905
15-Jun-2022	1.775672	3.511830	3.539160	1.785240	16.120658	0.169556	0.009339	0.106386	0.025339	0.000300	0.001561	0.049826	0.000030	0.004450	0.001279	0.000392	0.003919
16-Jun-2022	2.070542	3.462130	3.480500	1.746750	15.838055	0.194937	0.010614	0.122166	0.026911	0.000301	0.001542	0.052182	0.000033	0.004536	0.001284	0.000411	0.004107
17-Jun-2022	2.671490	3.408570	3.419430	1.707970	15.544620	0.235914	0.012666	0.147686	0.029131	0.000306	0.001523	0.055238	0.000036	0.004627	0.001286	0.000435	0.004355
18-Jun-2022	3.131134	3.361870	3.372150	1.681630	15.319542	0.242974	0.013019	0.152046	0.029524	0.000310	0.001503	0.055798	0.000036	0.004643	0.001287	0.000440	0.004399
19-Jun-2022	3.435966	3.328160	3.331840	1.654330	15.122946	0.231214	0.012417	0.144673	0.028699	0.000316	0.001490	0.054499	0.000035	0.004568	0.001271	0.000429	0.004294
20-Jun-2022	3.596646	3.307110	3.310910	1.641070	15.015780	0.241690	0.012946	0.151123	0.029344	0.000305	0.001485	0.055472	0.000036	0.004610	0.001273	0.000437	0.004371
21-Jun-2022	3.668592	3.289780	3.289860	1.625670	14.909090	0.253347	0.013534	0.158333	0.030055	0.000294	0.001480	0.056532	0.000037	0.004657	0.001279	0.000446	0.004456
22-Jun-2022	3.816563	3.285620	3.282860	1.619720	14.874200	0.274886	0.014628	0.171738	0.031480	0.000300	0.001479	0.058732	0.000039	0.004771	0.001299	0.000463	0.004632
23-Jun-2022	4.016424	3.274280	3.269320	1.610510	14.807957	0.268877	0.014319	0.167925	0.031045	0.000298	0.001476	0.058047	0.000038	0.004729	0.001290	0.000458	0.004576
24-Jun-2022	4.163283	3.264420	3.258700	1.597530	14.729885	0.284296	0.014883	0.154949	0.029787	0.000552	0.001474	0.062979	0.000037	0.004643	0.001277	0.000442	0.004425
25-Jun-2022	4.308597	3.255950	3.249130	1.586610	14.663767	0.305500	0.015938	0.154855	0.029419	0.000598	0.001472	0.065840	0.000036	0.004614	0.001272	0.000438	0.004379
26-Jun-2022	4.526675	3.251930	3.244640	1.581100	14.631039	0.308664	0.016084	0.156106	0.029862	0.000590	0.001472	0.065731	0.000037	0.004646	0.001276	0.000443	0.004428
27-Jun-2022	4.721541	3.237220	3.224420	1.575390	14.570794	0.322383	0.016747	0.157109	0.029612	0.000610	0.001467	0.067487	0.000037	0.004645	0.001275	0.000438	0.004383
28-Jun-2022	4.858217	3.224140	3.207450	1.568930	14.511531	0.296030	0.015419	0.160400	0.030335	0.000556	0.001458	0.064479	0.000038	0.004698	0.001283	0.000447	0.004472
29-Jun-2022	5.023477	3.215920	3.197360	1.562480	14.464445	0.309036	0.016066	0.165926	0.030841	0.000574	0.001456	0.065860	0.000038	0.004738	0.001290	0.000453	0.004528
30-Jun-2022	5.189782	3.202780	3.180450	1.553750	14.395684	0.300306	0.015627	0.166391	0.030664	0.000557	0.001453	0.064964	0.000038	0.004722	0.001285	0.000449	0.004490
1-Jul-2022	6.052223	3.081870	3.063520	1.459370	13.705115	0.201151	0.010653	0.114906	0.025441	0.000356	0.001389	0.053023	0.000034	0.004308	0.001216	0.000387	0.003874
2-Jul-2022	7.497355	3.264160	3.426930	1.465010	14.183519	0.246787	0.012029	0.127367	0.025064	0.000441	0.001370	0.056790	0.000048	0.004436	0.001350	0.000415	0.004152
3-Jul-2022	8.097760	3.342480	3.568740	1.464350	14.376366	0.268856	0.011519	0.122382	0.025115	0.000483	0.001360	0.056337	0.000053	0.004511	0.001404	0.000428	0.004279
4-Jul-2022	8.573574	3.350100	3.592200	1.463640	14.392469	0.267350	0.011314	0.120591	0.024822	0.000487	0.001354	0.055787	0.000054	0.004498	0.001409	0.000428	0.004281
5-Jul-2022	9.136958	3.515540	3.894800	1.488190	14.906670	0.298657	0.011772	0.125884	0.025035	0.000540	0.001357	0.056911	0.000065	0.004622	0.001510	0.000453	0.004535
6-Jul-2022	9.735510	3.523290	3.908810	1.488780	14.928451	0.302376	0.011728	0.124317	0.025043	0.000547	0.001357	0.056001	0.000065	0.004629	0.001515	0.000455	0.004553
7-Jul-2022	10.489938	4.200910	5.150030	1.592210	17.046393	0.426477	0.012939	0.136497	0.025975	0.000752	0.001371	0.057885	0.000107	0.005128	0.001926	0.000559	0.005588
8-Jul-2022	11.090555	4.100850	4.969000	1.577250	16.734938	0.409264	0.012802	0.135296	0.025803	0.000723	0.001369	0.057692	0.000101	0.005049	0.001865	0.000544	0.005442
9-Jul-2022	11.487249	3.994390	4.775890	1.560970	16.402066	0.391789	0.012696	0.134499	0.025614	0.000694	0.001366	0.057921	0.000095	0.004966	0.001800	0.000529	0.005289
10-Jul-2022	12.342115	4.192660	5.138400	1.590920	17.020481	0.429189	0.013103	0.138719	0.025885	0.000757	0.001370	0.058335	0.000107	0.005114	0.001921	0.000559	0.005594
11-Jul-2022	12.968857	4.229410	5.198300	1.594810	17.128264	0.438598	0.013328	0.141220	0.026019	0.000777	0.001371	0.058962	0.000109	0.005161	0.001946	0.000565	0.005648
12-Jul-2022	13.207836	4.280600	5.298680	1.604340	17.295330	0.444212	0.013214	0.139681	0.025975	0.000783	0.001372	0.058539	0.000112	0.005179	0.001974	0.000572	0.005724
13-Jul-2022	14.232279	4.126940	5.021430	1.581640	16.818163	0.417416	0.012984	0.137519	0.025675	0.000737	0.001369	0.058225	0.000103	0.005054	0.001880	0.000550	0.005501
14-Jul-2022	15.161623	4.323760	5.379840	1.611240	17.431515	0.454567	0.013398	0.141724	0.025972	0.000800	0.001373	0.058959	0.000115	0.005204	0.002000	0.000580	0.005802
15-Jul-2022	15.948874	4.410980	5.539550	1.624370	17.703373	0.471896	0.013617	0.144027	0.026087	0.000829	0.001375	0.059376	0.000121	0.005269	0.002053	0.000594	0.005939
16-Jul-2022	16.257247	4.694090	6.063880	1.668210	18.590832	0.525855	0.014193	0.150123	0.026394	0.000916	0.001380	0.060287	0.000139	0.005464	0.002223	0.000639	0.006386
17-Jul-2022	16.699919	4.602760	5.897110	1.654310	18.305540	0.510219	0.014083	0.149118	0.026260	0.000890	0.001378	0.060709	0.000133	0.005395	0.002168	0.000625	0.006251
18-Jul-2022	17.729932	4.413520	5.545750	1.624140	17.708768	0.479846	0.014326	0.151885	0.026072	0.000845	0.001375	0.062355	0.000122	0.005269	0.002055	0.000597	0.005966
19-Jul-2022	17.713555	4.510530	5.736070	1.640860	18.019855	0.499035	0.014143	0.150291	0.026018	0.000869	0.001376	0.060421	0.000129	0.005307	0.002110	0.000614	0.006140
20-Jul-2022	17.869900	4.549760	5.799180	1.645840	18.138320	0.503240	0.014118	0.149558	0.026126	0.000881	0.001377	0.060456	0.000130	0.005356	0.002136	0.000618	0.006178
21-Jul-2022	17.857219	4.644660	5.971590	1.660000	18.433596	0.521683	0.014344	0.151879	0.026268	0.000912	0.001379	0.061048	0.000136	0.005429	0.002194	0.000632	0.006324
22-Jul-2022	17.756109	4.448600	5.607950	1.629030	17.816500	0.491001	0.014439	0.154143	0.026020	0.000865	0.001376	0.061965	0.000124	0.005295	0.002077	0.000603	0.006034
23-Jul-2022	17.019213	4.503250	5.706420	1.637230	17.986728	0.502770	0.014464	0.153810	0.026092	0.000886	0.001377	0.061658	0.000128	0.005338	0.002111	0.000612	0.006121

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24-Jul-2022	16.516060	4.619400	5.920060	1.655180	18.350673	0.524103	0.014657	0.155699	0.026232	0.000921	0.001379	0.061991	0.000135	0.005421	0.002181	0.000630	0.006300
25-Jul-2022	16.276549	4.661860	5.999800	1.662030	18.484904	0.532502	0.014753	0.156764	0.026247	0.000935	0.001380	0.062023	0.000138	0.005446	0.002206	0.000637	0.006370
26-Jul-2022	16.091174	4.681070	6.035190	1.665090	18.545472	0.536368	0.014809	0.157355	0.026253	0.000941	0.001381	0.062214	0.000139	0.005459	0.002218	0.000640	0.006402
27-Jul-2022	16.816996	4.799420	6.252650	1.683300	18.915981	0.558763	0.015046	0.159738	0.026388	0.000978	0.001383	0.062621	0.000146	0.005544	0.002289	0.000659	0.006586
28-Jul-2022	16.815279	4.907220	6.449440	1.699750	19.252899	0.579387	0.015284	0.162217	0.026540	0.001013	0.001385	0.062997	0.000153	0.005624	0.002355	0.000675	0.006752
29-Jul-2022	16.893632	5.130720	6.858650	1.733820	19.951279	0.621434	0.015736	0.166904	0.026844	0.001083	0.001390	0.063764	0.000167	0.005789	0.002490	0.000710	0.007097
30-Jul-2022	17.354702	5.125380	6.857320	1.734180	19.939427	0.622655	0.015789	0.167918	0.026722	0.001081	0.001389	0.063813	0.000167	0.005764	0.002485	0.000711	0.007108
31-Jul-2022	16.195772	5.107900	6.820030	1.730760	19.881696	0.618800	0.015753	0.167229	0.026740	0.001078	0.001389	0.063883	0.000166	0.005763	0.002476	0.000707	0.007072
1-Aug-2022	15.762617	5.096780	6.799680	1.729200	19.847505	0.617921	0.015788	0.167635	0.026692	0.001078	0.001389	0.064034	0.000165	0.005753	0.002469	0.000706	0.007059
2-Aug-2022	15.597145	5.206410	7.001370	1.746190	20.191216	0.637923	0.015975	0.169428	0.026804	0.001114	0.001391	0.064558	0.000172	0.005830	0.002535	0.000723	0.007232
3-Aug-2022	15.607389	5.327050	7.225780	1.765100	20.570326	0.658795	0.016120	0.170828	0.026932	0.001149	0.001394	0.064835	0.000180	0.005911	0.002607	0.000742	0.007423
4-Aug-2022	15.547696	5.326050	7.223020	1.765110	20.567870	0.659181	0.016144	0.171138	0.026920	0.001151	0.001394	0.065137	0.000180	0.005911	0.002606	0.000742	0.007423
5-Aug-2022	15.098787	5.278280	7.136980	1.758190	20.420092	0.650316	0.016043	0.170138	0.026786	0.001138	0.001393	0.064954	0.000177	0.005870	0.002577	0.000735	0.007354
6-Aug-2022	15.306889	5.352280	7.272160	1.769670	20.652144	0.665085	0.016240	0.172254	0.026836	0.001167	0.001395	0.065670	0.000182	0.005921	0.002622	0.000747	0.007475
7-Aug-2022	14.131987	5.433320	7.423410	1.782430	20.907047	0.678922	0.016313	0.172918	0.026910	0.001190	0.001396	0.065838	0.000187	0.005975	0.002670	0.000760	0.007603
8-Aug-2022	13.602600	5.343410	7.258010	1.769020	20.627319	0.663311	0.016195	0.172324	0.026734	0.001167	0.001394	0.066245	0.000182	0.005907	0.002615	0.000747	0.007469
9-Aug-2022	12.579715	5.403800	7.364970	1.778400	20.816740	0.677508	0.016460	0.174996	0.026786	0.001200	0.001396	0.066824	0.000186	0.005955	0.002653	0.000757	0.007571
10-Aug-2022	12.160904	5.516270	7.573370	1.795960	21.169889	0.696961	0.016595	0.176228	0.026900	0.001232	0.001398	0.067053	0.000193	0.006031	0.002720	0.000775	0.007746
11-Aug-2022	11.817894	5.511460	7.567420	1.795660	21.156644	0.694625	0.016505	0.175159	0.026854	0.001226	0.001398	0.066793	0.000193	0.006021	0.002716	0.000774	0.007740
12-Aug-2022	11.348862	5.550040	7.639580	1.801920	21.278756	0.701340	0.016549	0.175581	0.026869	0.001238	0.001399	0.066957	0.000195	0.006045	0.002739	0.000780	0.007803
13-Aug-2022	11.084213	5.609520	7.749330	1.811360	21.466152	0.712206	0.016648	0.176585	0.026914	0.001258	0.001400	0.067265	0.000199	0.006084	0.002774	0.000790	0.007899
14-Aug-2022	10.687557	5.675380	7.870500	1.821740	21.673349	0.724409	0.016768	0.177832	0.026969	0.001281	0.001402	0.067630	0.000203	0.006130	0.002814	0.000800	0.008004
15-Aug-2022	9.938298	5.715020	7.944560	1.828170	21.798809	0.731442	0.016819	0.178343	0.026986	0.001294	0.001402	0.067820	0.000206	0.006154	0.002838	0.000807	0.008069
16-Aug-2022	9.358045	5.800760	8.103050	1.841620	22.068289	0.746681	0.016942	0.179536	0.027065	0.001320	0.001404	0.068127	0.000211	0.006213	0.002889	0.000820	0.008204
17-Aug-2022	10.501279	5.943970	8.367270	1.863760	22.517057	0.772213	0.017161	0.181674	0.027228	0.001364	0.001407	0.068583	0.000220	0.006313	0.002975	0.000843	0.008427
18-Aug-2022	10.391053	6.007740	8.493190	1.874790	22.721712	0.782152	0.017134	0.181227	0.027177	0.001384	0.001408	0.068886	0.000225	0.006337	0.003011	0.000855	0.008546
19-Aug-2022	11.231987	6.264940	8.955430	1.913230	23.522236	0.830624	0.017711	0.187121	0.027622	0.001467	0.001414	0.069889	0.000240	0.006545	0.003169	0.000893	0.008925
20-Aug-2022	11.050921	6.177220	8.795560	1.900290	23.249913	0.814517	0.017538	0.185414	0.027465	0.001442	0.001412	0.069739	0.000235	0.006477	0.003116	0.000880	0.008796
21-Aug-2022	10.113307	6.123470	8.698330	1.892470	23.083496	0.804510	0.017429	0.184348	0.027341	0.001428	0.001411	0.069733	0.000232	0.006433	0.003082	0.000872	0.008718
22-Aug-2022	9.797224	6.065410	8.593600	1.884110	22.904094	0.793355	0.017289	0.182903	0.027201	0.001410	0.001410	0.069551	0.000228	0.006383	0.003046	0.000863	0.008632
23-Aug-2022	9.092991	6.080210	8.622210	1.886780	22.952044	0.795561	0.017283	0.182799	0.027172	0.001414	0.001410	0.069622	0.000230	0.006389	0.003055	0.000866	0.008658
24-Aug-2022	8.211450	6.120000	8.696090	1.893250	23.078044	0.802574	0.017333	0.183296	0.027188	0.001428	0.001411	0.069866	0.000232	0.006414	0.003078	0.000872	0.008723
25-Aug-2022	7.454300	6.156020	8.763130	1.899140	23.192240	0.808815	0.017374	0.183679	0.027197	0.001440	0.001412	0.070059	0.000234	0.006436	0.003099	0.000878	0.008782
26-Aug-2022	7.015414	6.214160	8.871050	1.908390	23.375508	0.819089	0.017452	0.184432	0.027242	0.001459	0.001413	0.070303	0.000238	0.006475	0.003134	0.000887	0.008875
27-Aug-2022	6.936890	6.256160	8.949300	1.915240	23.508590	0.826281	0.017495	0.184832	0.027258	0.001472	0.001414	0.070474	0.000241	0.006501	0.003159	0.000894	0.008943
28-Aug-2022	7.257286	6.240500	8.922980	1.913350	23.461704	0.822644	0.017417	0.183971	0.027170	0.001467	0.001414	0.070471	0.000240	0.006481	0.003148	0.000892	0.008923
29-Aug-2022	7.095734	6.300070	9.032600	1.922730	23.649077	0.833343	0.017511	0.184908	0.027232	0.001486	0.001415	0.070691	0.000244	0.006523	0.003184	0.000902	0.009017
30-Aug-2022	6.729793	6.355660	9.135170	1.931480	23.823918	0.843180	0.017589	0.185666	0.027287	0.001503	0.001416	0.070886	0.000247	0.006561	0.003218	0.000910	0.009104
31-Aug-2022	6.825801	6.620690	9.618750	1.971810	24.651777	0.891469	0.018060	0.190337	0.027662	0.001584	0.001422	0.071706	0.000264	0.006760	0.003379	0.000951	0.009506
1-Sep-2022	7.221639	6.940920	10.205300	2.020520	25.651979	0.949709	0.018612	0.195823	0.028106	0.001681	0.001428	0.072604	0.000283	0.006997	0.003573	0.001000	0.009996
2-Sep-2022	6.835707	6.870370	10.083000	2.009480	25.430353	0.936942	0.018446	0.194142	0.027926	0.001662	0.001425	0.072495	0.000280	0.006931	0.003530	0.000990	0.009899
3-Sep-2022	6.714074	6.625720	9.636460	1.972040	24.665284	0.892547	0.018013	0.189831	0.027524	0.001591	0.001420	0.071937	0.000265	0.006747	0.003381	0.000953	0.009527
4-Sep-2022	5.844642	6.609640	9.605810	1.969830	24.616031	0.889441	0.017982	0.189512	0.027487	0.001588	0.001419	0.071976	0.000264	0.006736	0.003372	0.000950	0.009501
5-Sep-2022	5.280921	6.744380	9.854410	1.989880	25.035043	0.914384	0.018222	0.191925	0.027657	0.001629	0.001421	0.072352	0.000272	0.006834	0.003454	0.000971	0.009708
6-Sep-2022	5.370179	6.825670	10.003500	2.002050	25.288140	0.929327	0.018366	0.193365	0.027764	0.001655	0.001422	0.072610	0.000277	0.006894	0.003503	0.000983	0.009832
7-Sep-2022	5.678566	7.048120	10.412400	2.035030	25.979409	0.970793	0.018772	0.197372	0.028023	0.001731	0.001425	0.073600	0.000291	0.007057	0.003639	0.001017	0.010175
8-Sep-2022	4.915743	6.841270	10.034400	2.004080	25.335453	0.932541	0.018388	0.193576	0.027724	0.001664	0.001422	0.072843	0.000278	0.006901	0.003513	0.000986	0.009860
9-Sep-2022	4.012137	7.050010	10.418400	2.035340	25.985405	0.970979	0.018757	0.197275	0.028000	0.001728	0.001425	0.073434	0.000291	0.007054	0.003640	0.001018	0.010180
10-Sep-2022	3.423173	6.944070	10.225700	2.019400	25.655232	0.951606	0.018561	0.195322	0.027824	0.001696	0.001423	0.073150	0.000285	0.006972	0.003575	0.001002	0.010020
11-Sep-2022	4.016190	7.153760	10.608700	2.051150	26.309574	0.989951	0.018938	0.199085	0.028129	0.001760	0.001427	0.073739	0.000298	0.007130	0.003703	0.001034	0.010338
12-Sep-2022	4.166326	7.410840	11.079600	2.089770	27.110540	1.037250	0.019398	0.203618	0.028471	0.001842	0.001431	0.074625	0.000314	0.007321	0.003860	0.001073	0.010730
13-Sep-2022	3.297235	7.106620	10.527200	2.043410	26.159993	0.981723	0.018835	0.198015	0.027982	0.001749	0.001424	0.073708	0.000295	0.007087	0.003675	0.001027	0.010271

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Sep-2022	2.695826	7.134420	10.579600	2.047590	26.246622	0.986912	0.018881	0.198489	0.028000	0.001757	0.001424	0.073779	0.000297	0.007105	0.003691	0.001032	0.010316
15-Sep-2022	2.738157	7.168870	10.644500	2.052570	26.353152	0.993169	0.018927	0.198903	0.028019	0.001768	0.001425	0.073855	0.000299	0.007127	0.003712	0.001037	0.010369
16-Sep-2022	1.803509	7.289050	10.865200	2.070590	26.727447	1.015460	0.019148	0.201144	0.028177	0.001806	0.001426	0.074255	0.000307	0.007216	0.003786	0.001055	0.010553
17-Sep-2022	0.883479	7.361490	10.998200	2.081640	26.953834	1.028630	0.019270	0.202364	0.028263	0.001828	0.001428	0.074473	0.000311	0.007268	0.003829	0.001066	0.010664
18-Sep-2022	0.569893	7.402310	11.075000	2.087600	27.080305	1.036350	0.019340	0.203059	0.028297	0.001841	0.001428	0.074589	0.000314	0.007295	0.003854	0.001073	0.010729
19-Sep-2022	0.546668	7.445870	11.155300	2.094230	27.216377	1.044330	0.019415	0.203817	0.028351	0.001854	0.001429	0.074712	0.000317	0.007327	0.003881	0.001080	0.010796
20-Sep-2022	0.734783	7.581700	11.404700	2.114610	27.639469	1.069180	0.019650	0.206163	0.028528	0.001895	0.001431	0.075062	0.000325	0.007426	0.003963	0.001100	0.011003
21-Sep-2022	0.518809	7.538900	11.331400	2.107980	27.505295	1.061690	0.019559	0.205294	0.028397	0.001882	0.001429	0.074893	0.000323	0.007385	0.003937	0.001094	0.010943
22-Sep-2022	0.642165	7.503960	11.268000	2.102300	27.394660	1.055310	0.019488	0.204541	0.028327	0.001873	0.001428	0.074868	0.000321	0.007359	0.003916	0.001089	0.010890
23-Sep-2022	0.798278	7.852680	11.908100	2.154760	28.481444	1.119450	0.020112	0.210799	0.028804	0.001980	0.001434	0.075843	0.000342	0.007616	0.004128	0.001142	0.011423
24-Sep-2022	0.918082	8.097280	12.358000	2.191460	29.243340	1.164590	0.020550	0.215194	0.029127	0.002055	0.001438	0.076543	0.000357	0.007795	0.004277	0.001180	0.011798
25-Sep-2022	0.908776	7.992890	12.168600	2.175220	28.915802	1.145590	0.020354	0.213214	0.028954	0.002025	0.001435	0.076280	0.000351	0.007715	0.004214	0.001164	0.011640
26-Sep-2022	0.541330	7.848830	11.904500	2.153490	28.466600	1.119420	0.020105	0.210712	0.028732	0.001984	0.001432	0.076028	0.000342	0.007608	0.004126	0.001142	0.011421
27-Sep-2022	0.067499	7.783520	11.785000	2.143910	28.264071	1.107350	0.019984	0.209492	0.028627	0.001964	0.001431	0.075859	0.000338	0.007558	0.004086	0.001132	0.011322
28-Sep-2022	0.327181	7.926100	12.046400	2.165410	28.708630	1.133320	0.020228	0.211910	0.028812	0.002007	0.001434	0.076250	0.000347	0.007663	0.004173	0.001154	0.011539
29-Sep-2022	0.020897	7.956150	12.105800	2.169310	28.799725	1.139270	0.020272	0.212361	0.028811	0.002017	0.001433	0.076298	0.000349	0.007679	0.004191	0.001159	0.011589
30-Sep-2022	0.023319	7.851710	11.914200	2.153800	28.475068	1.120240	0.020091	0.210559	0.028647	0.001987	0.001431	0.076099	0.000343	0.007601	0.004128	0.001143	0.011430
1-Oct-2022	0.054052	7.878690	11.967100	2.158030	28.559856	1.125660	0.020143	0.211135	0.028658	0.001994	0.001431	0.076128	0.000345	0.007615	0.004144	0.001148	0.011476
2-Oct-2022	0.117093	7.738770	11.709600	2.136470	28.121692	1.099670	0.019881	0.208460	0.028468	0.001952	0.001429	0.075768	0.000336	0.007514	0.004059	0.001126	0.011260
3-Oct-2022	0.018794	7.687850	11.615600	2.128380	27.961230	1.090440	0.019793	0.207547	0.028400	0.001939	0.001428	0.075703	0.000333	0.007478	0.004029	0.001118	0.011181
4-Oct-2022	0.016414	7.645840	11.537300	2.122940	27.833929	1.082390	0.019716	0.206803	0.028357	0.001925	0.001427	0.075539	0.000330	0.007448	0.004003	0.001111	0.011115
5-Oct-2022	0.024068	7.625980	11.500200	2.120250	27.773262	1.078470	0.019676	0.206400	0.028337	0.001917	0.001428	0.075391	0.000329	0.007433	0.003990	0.001108	0.011083
6-Oct-2022	0.204345	7.614690	11.479600	2.118400	27.737452	1.076460	0.019656	0.206206	0.028319	0.001914	0.001428	0.075365	0.000328	0.007425	0.003984	0.001107	0.011066
7-Oct-2022	0.242179	7.603280	11.458700	2.116690	27.701920	1.074350	0.019635	0.205998	0.028305	0.001911	0.001427	0.075326	0.000327	0.007417	0.003977	0.001105	0.011048
8-Oct-2022	0.197499	7.577670	11.411700	2.112830	27.622076	1.069630	0.019589	0.205542	0.028271	0.001903	0.001427	0.075240	0.000326	0.007398	0.003961	0.001101	0.011008
9-Oct-2022	0.057670	7.546020	11.354000	2.108090	27.523527	1.063830	0.019529	0.204953	0.028233	0.001893	0.001425	0.075261	0.000324	0.007374	0.003942	0.001096	0.010959
10-Oct-2022	0.084109	7.533040	11.329700	2.106160	27.483168	1.061390	0.019507	0.204739	0.028215	0.001889	0.001426	0.075077	0.000323	0.007365	0.003934	0.001094	0.010938
11-Oct-2022	0.053751	7.514400	11.296000	2.103240	27.424599	1.057990	0.019471	0.204390	0.028187	0.001883	0.001425	0.074994	0.000322	0.007351	0.003923	0.001091	0.010910
12-Oct-2022	0.216235	7.489830	11.250900	2.099360	27.347270	1.053600	0.019430	0.203985	0.028151	0.001877	0.001424	0.075075	0.000320	0.007333	0.003908	0.001087	0.010871
13-Oct-2022	0.145475	7.486780	11.247800	2.098000	27.334054	1.053290	0.019417	0.203845	0.028133	0.001876	0.001423	0.074932	0.000320	0.007329	0.003907	0.001087	0.010867
14-Oct-2022	0.063211	7.461400	11.199900	2.094740	27.257255	1.048480	0.019375	0.203445	0.028107	0.001868	0.001423	0.074846	0.000319	0.007311	0.003891	0.001083	0.010828
15-Oct-2022	0.033357	7.452780	11.184500	2.093320	27.229883	1.046930	0.019359	0.203283	0.028093	0.001865	0.001422	0.074776	0.000318	0.007305	0.003886	0.001081	0.010814
16-Oct-2022	0.038666	7.459520	11.197100	2.094810	27.252849	1.048240	0.019372	0.203427	0.028114	0.001868	0.001423	0.074832	0.000319	0.007310	0.003890	0.001082	0.010825
17-Oct-2022	0.038651	7.511290	11.269600	2.110970	27.448666	1.054800	0.019517	0.204954	0.028342	0.001879	0.001436	0.075425	0.000320	0.007364	0.003916	0.001090	0.010898
18-Oct-2022	0.036823	7.562870	11.346600	2.125550	27.637501	1.062000	0.019652	0.206382	0.028537	0.001892	0.001445	0.075942	0.000323	0.007415	0.003942	0.001097	0.010973
19-Oct-2022	0.036904	7.627250	11.442500	2.143790	27.873370	1.070930	0.019820	0.208145	0.028778	0.001908	0.001457	0.076595	0.000325	0.007478	0.003976	0.001107	0.011066
20-Oct-2022	0.037845	7.692400	11.539800	2.162290	28.112233	1.080020	0.019991	0.209937	0.029028	0.001924	0.001470	0.077259	0.000328	0.007542	0.004009	0.001116	0.011161
21-Oct-2022	0.039164	7.743040	11.614900	2.176870	28.298722	1.087020	0.020124	0.211345	0.029225	0.001937	0.001480	0.077781	0.000330	0.007593	0.004036	0.001123	0.011234
22-Oct-2022	0.043197	7.653290	11.481100	2.151420	27.969813	1.074520	0.019890	0.208886	0.028881	0.001914	0.001463	0.077011	0.000326	0.007504	0.003989	0.001110	0.011104
23-Oct-2022	0.046126	7.692600	11.539700	2.162620	28.114091	1.079990	0.019993	0.209970	0.029032	0.001924	0.001470	0.077379	0.000328	0.007543	0.004009	0.001116	0.011161
24-Oct-2022	0.047935	7.729470	11.594800	2.173060	28.249148	1.085140	0.020090	0.210982	0.029173	0.001933	0.001477	0.077637	0.000330	0.007579	0.004029	0.001121	0.011215
25-Oct-2022	0.049482	7.743410	11.613800	2.177740	28.303228	1.086850	0.020130	0.211422	0.029239	0.001936	0.001481	0.077813	0.000330	0.007594	0.004035	0.001123	0.011234
26-Oct-2022	0.049603	7.765670	11.643900	2.185300	28.389943	1.089580	0.020198	0.212143	0.029347	0.001941	0.001487	0.078108	0.000331	0.007618	0.004046	0.001127	0.011266
27-Oct-2022	0.048337	7.806340	11.703100	2.197330	28.541036	1.095150	0.020310	0.213336	0.029510	0.001952	0.001496	0.078580	0.000333	0.007659	0.004067	0.001132	0.011324
28-Oct-2022	0.047359	7.841960	11.754900	2.207870	28.673383	1.100040	0.020410	0.214391	0.029653	0.001961	0.001503	0.079002	0.000334	0.007696	0.004085	0.001138	0.011375
29-Oct-2022	0.046933	7.859280	11.780900	2.212680	28.736438	1.102500	0.020455	0.214872	0.029717	0.001966	0.001506	0.079185	0.000335	0.007713	0.004094	0.001140	0.011401
30-Oct-2022	0.046991	7.884150	11.819600	2.219140	28.825141	1.106150	0.020516	0.215498	0.029802	0.001972	0.001510	0.079401	0.000336	0.007736	0.004108	0.001144	0.011437
31-Oct-2022	0.046851	7.914240	11.866800	2.226830	28.931943	1.110580	0.020587	0.216233	0.029902	0.001980	0.001515	0.079646	0.000337	0.007764	0.004124	0.001148	0.011481
1-Nov-2022	0.046538	7.954220	11.928300	2.237530	29.075836	1.116340	0.020686	0.217262	0.030044	0.001990	0.001522	0.080001	0.000339	0.007802	0.004145	0.001154	0.011540
2-Nov-2022	0.046928	8.003180	12.001800	2.251290	29.254753	1.123210	0.020813	0.218595	0.030228	0.002002	0.001531	0.080490	0.000341	0.007850	0.004170	0.001161	0.011611
3-Nov-2022	0.046853	7.945470	11.915100	2.235080	29.043898	1.115100	0.020663	0.217025	0.030011	0.001987	0.001520	0.079932	0.000339	0.007794	0.004140	0.001153	0.011527
4-Nov-2022	0.046946	7.988650	11.979600	2.247310	29.202082	1.121150	0.020776	0.218215	0.030175	0.001998	0.001529	0.080357	0.000341	0.007836	0.004163	0.001159	0.011589

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Nov-2022	0.047069	8.035550	12.049500	2.260670	29.374207	1.127680	0.020900	0.219518	0.030355	0.002010	0.001538	0.080847	0.000342	0.007883	0.004187	0.001166	0.011657
6-Nov-2022	0.047132	8.083510	12.120600	2.274410	29.550545	1.134350	0.021027	0.220859	0.030541	0.002022	0.001547	0.081353	0.000344	0.007930	0.004212	0.001173	0.011727
7-Nov-2022	0.047052	8.132750	12.193800	2.288480	29.731437	1.141200	0.021158	0.222232	0.030730	0.002035	0.001557	0.081871	0.000347	0.007979	0.004238	0.001180	0.011798
8-Nov-2022	0.046908	8.181790	12.266900	2.302430	29.911336	1.148040	0.021287	0.223591	0.030918	0.002047	0.001567	0.082379	0.000349	0.008028	0.004263	0.001187	0.011869
9-Nov-2022	0.046789	8.228390	12.336400	2.315650	30.082137	1.154550	0.021409	0.224878	0.031096	0.002059	0.001576	0.082860	0.000351	0.008074	0.004287	0.001194	0.011936
10-Nov-2022	0.046665	8.273120	12.403300	2.328310	30.245961	1.160810	0.021527	0.226111	0.031267	0.002070	0.001584	0.083319	0.000352	0.008118	0.004311	0.001200	0.012001
11-Nov-2022	0.046311	8.314700	12.465400	2.340060	30.398173	1.166630	0.021635	0.227255	0.031425	0.002080	0.001593	0.083744	0.000354	0.008159	0.004332	0.001206	0.012062
12-Nov-2022	0.045940	8.347010	12.513600	2.349220	30.516572	1.171150	0.021720	0.228148	0.031548	0.002089	0.001599	0.084078	0.000356	0.008191	0.004349	0.001211	0.012108
13-Nov-2022	0.045612	8.375930	12.556900	2.357390	30.622429	1.175210	0.021796	0.228948	0.031658	0.002096	0.001604	0.084378	0.000357	0.008219	0.004364	0.001215	0.012150
14-Nov-2022	0.045521	8.411850	12.610700	2.367480	30.753672	1.180260	0.021890	0.229931	0.031793	0.002105	0.001611	0.084741	0.000358	0.008254	0.004383	0.001220	0.012202
15-Nov-2022	0.045524	8.444060	12.659100	2.376520	30.871327	1.184790	0.021974	0.230811	0.031914	0.002113	0.001617	0.085065	0.000360	0.008286	0.004400	0.001225	0.012249
16-Nov-2022	0.045673	8.475670	12.706500	2.385420	30.986908	1.189230	0.022056	0.231678	0.032033	0.002121	0.001623	0.085387	0.000361	0.008317	0.004416	0.001229	0.012295
17-Nov-2022	0.045828	8.505600	12.751300	2.393840	31.096316	1.193430	0.022135	0.232502	0.032146	0.002129	0.001629	0.085693	0.000362	0.008346	0.004432	0.001234	0.012338
18-Nov-2022	0.045952	8.539960	12.803000	2.403430	31.221605	1.198280	0.022223	0.233433	0.032275	0.002137	0.001636	0.086033	0.000364	0.008380	0.004450	0.001239	0.012388
19-Nov-2022	0.045690	8.578800	12.861500	2.414270	31.363227	1.203760	0.022324	0.234485	0.032420	0.002147	0.001643	0.086417	0.000366	0.008418	0.004470	0.001244	0.012445
20-Nov-2022	0.045238	8.619550	12.922500	2.425760	31.512296	1.209480	0.022430	0.235606	0.032574	0.002157	0.001651	0.086833	0.000367	0.008458	0.004491	0.001250	0.012504
21-Nov-2022	0.045071	8.664260	12.989200	2.438430	31.676112	1.215730	0.022548	0.236848	0.032744	0.002169	0.001659	0.087299	0.000369	0.008502	0.004514	0.001257	0.012569
22-Nov-2022	0.045011	8.707280	13.053300	2.450640	31.833814	1.221760	0.022662	0.238048	0.032908	0.002180	0.001668	0.087751	0.000371	0.008545	0.004537	0.001263	0.012631
23-Nov-2022	0.044817	8.751230	13.118900	2.463070	31.994744	1.227930	0.022778	0.239269	0.033075	0.002191	0.001676	0.088209	0.000373	0.008588	0.004560	0.001269	0.012695
24-Nov-2022	0.044494	8.723490	13.077200	2.455300	31.893480	1.224040	0.022707	0.238524	0.032971	0.002184	0.001671	0.087940	0.000372	0.008561	0.004545	0.001265	0.012654
25-Nov-2022	0.044388	8.760780	13.133100	2.465800	32.029832	1.229280	0.022805	0.239547	0.033112	0.002193	0.001678	0.088319	0.000373	0.008598	0.004565	0.001271	0.012708
26-Nov-2022	0.044268	8.798670	13.190400	2.476300	32.167682	1.234630	0.022901	0.240561	0.033252	0.002203	0.001685	0.088684	0.000375	0.008634	0.004584	0.001276	0.012764
27-Nov-2022	0.044075	8.832930	13.242200	2.485780	32.292268	1.239480	0.022989	0.241478	0.033379	0.002211	0.001692	0.089015	0.000376	0.008668	0.004602	0.001281	0.012813
28-Nov-2022	0.043786	8.864550	13.289500	2.494680	32.407874	1.243930	0.023072	0.242348	0.033498	0.002219	0.001698	0.089338	0.000378	0.008699	0.004619	0.001286	0.012859
29-Nov-2022	0.043632	8.898660	13.340400	2.504340	32.532826	1.248710	0.023162	0.243297	0.033628	0.002228	0.001704	0.089695	0.000379	0.008732	0.004637	0.001291	0.012909
30-Nov-2022	0.043576	8.933090	13.391700	2.514130	32.659113	1.253530	0.023253	0.244260	0.033760	0.002237	0.001711	0.090058	0.000381	0.008767	0.004655	0.001296	0.012959
1-Dec-2022	0.043473	8.967490	13.442800	2.523940	32.785407	1.258330	0.023345	0.245225	0.033891	0.002246	0.001718	0.090424	0.000382	0.008801	0.004672	0.001301	0.013008
2-Dec-2022	0.043255	9.001800	13.493900	2.533710	32.911312	1.263130	0.023436	0.246186	0.034023	0.002254	0.001725	0.090786	0.000383	0.008835	0.004690	0.001306	0.013058
3-Dec-2022	0.043041	9.029430	13.534600	2.541690	33.013166	1.266970	0.023511	0.246978	0.034130	0.002261	0.001730	0.091093	0.000385	0.008862	0.004704	0.001310	0.013098
4-Dec-2022	0.043017	9.051970	13.568100	2.548130	33.095968	1.270120	0.023571	0.247615	0.034217	0.002267	0.001735	0.091335	0.000386	0.008885	0.004716	0.001313	0.013131
5-Dec-2022	0.043000	9.089520	13.624500	2.558640	33.233011	1.275410	0.023669	0.248639	0.034358	0.002277	0.001742	0.091712	0.000387	0.008922	0.004736	0.001319	0.013185
6-Dec-2022	0.042935	9.150170	13.715700	2.575600	33.454295	1.283950	0.023826	0.250285	0.034585	0.002292	0.001753	0.092315	0.000390	0.008981	0.004767	0.001327	0.013273
7-Dec-2022	0.042848	9.205680	13.799000	2.591200	33.657145	1.291750	0.023970	0.251805	0.034794	0.002306	0.001764	0.092876	0.000392	0.009035	0.004796	0.001335	0.013354
8-Dec-2022	0.042750	9.259220	13.879300	2.606250	33.852810	1.299270	0.024110	0.253271	0.034996	0.002319	0.001774	0.093418	0.000394	0.009088	0.004824	0.001343	0.013431
9-Dec-2022	0.042683	9.307560	13.952000	2.619770	34.029190	1.306090	0.024235	0.254587	0.035177	0.002331	0.001783	0.093901	0.000397	0.009135	0.004850	0.001350	0.013502
10-Dec-2022	0.042618	9.347350	14.011500	2.630980	34.174709	1.311670	0.024339	0.255681	0.035328	0.002342	0.001791	0.094307	0.000398	0.009174	0.004870	0.001356	0.013559
11-Dec-2022	0.042488	9.142780	13.704500	2.573500	33.427195	1.282960	0.023809	0.250112	0.034556	0.002291	0.001752	0.092264	0.000389	0.008974	0.004764	0.001326	0.013262
12-Dec-2022	0.042541	9.202520	13.793700	2.590430	33.646083	1.291320	0.023966	0.251764	0.034784	0.002306	0.001763	0.092880	0.000392	0.009033	0.004795	0.001335	0.013349
13-Dec-2022	0.042452	9.147290	13.703300	2.577130	33.453404	1.283220	0.023859	0.250699	0.034609	0.002295	0.001756	0.092659	0.000389	0.008985	0.004765	0.001327	0.013267
14-Dec-2022	0.042228	9.136290	13.689700	2.573150	33.409548	1.281860	0.023818	0.250252	0.034553	0.002291	0.001752	0.092439	0.000389	0.008972	0.004760	0.001325	0.013252
15-Dec-2022	0.042208	9.133900	13.688300	2.571770	33.397897	1.281660	0.023802	0.250070	0.034533	0.002290	0.001751	0.092328	0.000389	0.008968	0.004759	0.001325	0.013249
16-Dec-2022	0.042255	9.171860	13.743500	2.583150	33.539546	1.286890	0.023913	0.251260	0.034688	0.002300	0.001760	0.092843	0.000391	0.009007	0.004778	0.001330	0.013304
17-Dec-2022	0.042250	9.245780	13.852400	2.604390	33.811591	1.297140	0.024110	0.253324	0.034973	0.002319	0.001774	0.093630	0.000394	0.009081	0.004817	0.001341	0.013411
18-Dec-2022	0.042135	9.284950	13.912300	2.615050	33.953296	1.302710	0.024206	0.254331	0.035116	0.002329	0.001781	0.093949	0.000395	0.009118	0.004837	0.001347	0.013468
19-Dec-2022	0.042146	9.334980	13.987200	2.629170	34.136367	1.309720	0.024337	0.255705	0.035305	0.002341	0.001791	0.094457	0.000397	0.009167	0.004863	0.001354	0.013540
20-Dec-2022	0.042136	9.412190	14.101100	2.651460	34.420951	1.320450	0.024546	0.257916	0.035606	0.002361	0.001806	0.095311	0.000401	0.009245	0.004903	0.001365	0.013652
21-Dec-2022	0.042010	9.470640	14.188700	2.667920	34.634683	1.328650	0.024698	0.259511	0.035827	0.002376	0.001817	0.095898	0.000403	0.009302	0.004934	0.001374	0.013737
22-Dec-2022	0.041995	9.507470	14.245200	2.677880	34.767662	1.333890	0.024788	0.260448	0.035960	0.002385	0.001824	0.096216	0.000405	0.009337	0.004953	0.001379	0.013790
23-Dec-2022	0.041990	9.570430	14.338800	2.695840	34.998833	1.342680	0.024956	0.262212	0.036201	0.002401	0.001836	0.096884	0.000407	0.009400	0.004986	0.001388	0.013881
24-Dec-2022	0.041882	9.645030	14.449800	2.717100	35.272658	1.353100	0.025154	0.264301	0.036487	0.002420	0.001851	0.097673	0.000411	0.009474	0.005024	0.001399	0.013989
25-Dec-2022	0.041833	9.670860	14.490000	2.723900	35.365158	1.356820	0.025215	0.264926	0.036578	0.002426	0.001855	0.097872	0.000412	0.009498	0.005038	0.001403	0.014027
26-Dec-2022	0.041827	9.723620	14.569000	2.738780	35.558175	1.364220	0.025352	0.266375	0.036777	0.002439	0.001865	0.098409	0.000414	0.009550	0.005066	0.001410	0.014104

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
27-Dec-2022	0.041738	9.804070	14.688600	2.761740	35.853608	1.375450	0.025567	0.268633	0.037086	0.002460	0.001881	0.099264	0.000417	0.009629	0.005107	0.001422	0.014220
28-Dec-2022	0.041642	9.819300	14.712800	2.765600	35.907533	1.377670	0.025600	0.268977	0.037137	0.002463	0.001884	0.099363	0.000418	0.009643	0.005115	0.001424	0.014243
29-Dec-2022	0.041659	9.865550	14.782100	2.778600	36.076553	1.384170	0.025721	0.270240	0.037312	0.002475	0.001892	0.099828	0.000420	0.009689	0.005140	0.001431	0.014310
30-Dec-2022	0.041654	9.929210	14.876800	2.796740	36.310213	1.393060	0.025890	0.272021	0.037556	0.002491	0.001905	0.100500	0.000423	0.009752	0.005173	0.001440	0.014402
31-Dec-2022	0.041572	9.948780	14.907100	2.801960	36.380575	1.395860	0.025936	0.272506	0.037625	0.002495	0.001908	0.100660	0.000424	0.009770	0.005183	0.001443	0.014431
1-Jan-2023	0.041586	9.988820	14.967400	2.813160	36.526676	1.401490	0.026040	0.273589	0.037775	0.002505	0.001916	0.101055	0.000425	0.009809	0.005204	0.001449	0.014489
2-Jan-2023	0.041589	10.052300	15.062000	2.831200	36.759475	1.410380	0.026208	0.275358	0.038018	0.002521	0.001928	0.101720	0.000428	0.009872	0.005237	0.001458	0.014581
3-Jan-2023	0.041501	10.087800	15.115600	2.841080	36.888804	1.415380	0.026299	0.276311	0.038150	0.002530	0.001935	0.102064	0.000430	0.009907	0.005255	0.001463	0.014632
4-Jan-2023	0.041502	10.109700	15.148900	2.847040	36.968032	1.418480	0.026353	0.276875	0.038230	0.002535	0.001939	0.102260	0.000430	0.009927	0.005267	0.001466	0.014664
5-Jan-2023	0.041528	10.172400	15.242500	2.864820	37.197812	1.427270	0.026518	0.278617	0.038469	0.002551	0.001951	0.102912	0.000433	0.009989	0.005300	0.001475	0.014755
6-Jan-2023	0.041459	10.211100	15.300600	2.875700	37.339249	1.432710	0.026619	0.279672	0.038615	0.002561	0.001958	0.103300	0.000435	0.010027	0.005320	0.001481	0.014811
7-Jan-2023	0.041463	10.225500	15.322900	2.879480	37.390772	1.434770	0.026652	0.280021	0.038665	0.002564	0.001961	0.103412	0.000435	0.010041	0.005327	0.001483	0.014832
8-Jan-2023	0.041476	10.286500	15.414100	2.896790	37.614372	1.443310	0.026813	0.281716	0.038898	0.002580	0.001973	0.104046	0.000438	0.010101	0.005359	0.001492	0.014921
9-Jan-2023	0.041425	10.325700	15.472800	2.907840	37.757758	1.448810	0.026916	0.282790	0.039046	0.002590	0.001980	0.104443	0.000440	0.010140	0.005379	0.001498	0.014977
10-Jan-2023	0.041397	10.339000	15.493500	2.911350	37.805422	1.450730	0.026947	0.283115	0.039093	0.002593	0.001982	0.104548	0.000440	0.010152	0.005387	0.001500	0.014997
11-Jan-2023	0.041405	10.395500	15.577900	2.927330	38.012308	1.458640	0.027095	0.284673	0.039307	0.002607	0.001993	0.105128	0.000443	0.010208	0.005416	0.001508	0.015079
12-Jan-2023	0.041390	10.442200	15.647500	2.940590	38.183523	1.465170	0.027219	0.285972	0.039486	0.002619	0.002002	0.105615	0.000445	0.010254	0.005440	0.001515	0.015147
13-Jan-2023	0.041311	10.471500	15.691700	2.948740	38.290247	1.469300	0.027294	0.286759	0.039595	0.002626	0.002008	0.105900	0.000446	0.010282	0.005456	0.001519	0.015189
14-Jan-2023	0.041317	10.511600	15.752000	2.959970	38.436622	1.474940	0.027397	0.287845	0.039745	0.002636	0.002016	0.106297	0.000448	0.010322	0.005476	0.001525	0.015247
15-Jan-2023	0.041321	10.559400	15.823100	2.973560	38.611942	1.481620	0.027524	0.289179	0.039928	0.002648	0.002025	0.106800	0.000450	0.010369	0.005501	0.001532	0.015316
16-Jan-2023	0.041259	10.593600	15.874300	2.983210	38.737078	1.486420	0.027613	0.290119	0.040058	0.002657	0.002031	0.107148	0.000451	0.010402	0.005519	0.001537	0.015366
17-Jan-2023	0.041233	10.617900	15.911300	2.989860	38.825140	1.489860	0.027674	0.290753	0.040147	0.002663	0.002036	0.107371	0.000452	0.010426	0.005532	0.001540	0.015401
18-Jan-2023	0.041237	10.673200	15.994000	3.005490	39.027588	1.497610	0.027819	0.292277	0.040357	0.002677	0.002047	0.107937	0.000455	0.010480	0.005561	0.001548	0.015482
19-Jan-2023	0.041237	10.727700	16.075200	3.021040	39.227710	1.505230	0.027964	0.293804	0.040566	0.002691	0.002057	0.108513	0.000457	0.010534	0.005589	0.001556	0.015561
20-Jan-2023	0.041191	10.753400	16.114000	3.028170	39.321244	1.508850	0.028029	0.294491	0.040661	0.002697	0.002062	0.108761	0.000458	0.010559	0.005602	0.001560	0.015598
21-Jan-2023	0.041179	10.794200	16.175300	3.039540	39.469943	1.514590	0.028134	0.295590	0.040814	0.002707	0.002070	0.109160	0.000460	0.010599	0.005624	0.001566	0.015657
22-Jan-2023	0.041173	10.860400	16.274200	3.058350	39.712704	1.523860	0.028309	0.297429	0.041067	0.002724	0.002083	0.109849	0.000462	0.010665	0.005658	0.001575	0.015753
23-Jan-2023	0.041154	10.886900	16.314000	3.065760	39.809389	1.527580	0.028378	0.298147	0.041166	0.002730	0.002088	0.110112	0.000464	0.010690	0.005672	0.001579	0.015792
24-Jan-2023	0.041094	10.896600	16.329500	3.068180	39.843575	1.529010	0.028398	0.298360	0.041198	0.002732	0.002089	0.110170	0.000464	0.010699	0.005677	0.001581	0.015806
25-Jan-2023	0.041067	10.947500	16.405900	3.082430	40.029354	1.536160	0.028530	0.299742	0.041389	0.002745	0.002099	0.110676	0.000466	0.010749	0.005704	0.001588	0.015880
26-Jan-2023	0.041049	10.997700	16.481400	3.096530	40.212767	1.543220	0.028660	0.301108	0.041578	0.002758	0.002108	0.111177	0.000468	0.010798	0.005730	0.001595	0.015953
27-Jan-2023	0.041026	11.044300	16.551400	3.109560	40.382785	1.549760	0.028781	0.302371	0.041753	0.002769	0.002117	0.111639	0.000470	0.010844	0.005754	0.001602	0.016020
28-Jan-2023	0.040999	11.091000	16.621600	3.122680	40.553423	1.556330	0.028902	0.303642	0.041929	0.002781	0.002126	0.112105	0.000472	0.010889	0.005779	0.001609	0.016088
29-Jan-2023	0.040979	11.143400	16.700200	3.137390	40.744842	1.563690	0.029038	0.305070	0.042126	0.002794	0.002136	0.112630	0.000475	0.010941	0.005806	0.001616	0.016164
30-Jan-2023	0.040967	11.210600	16.801100	3.156290	40.990470	1.573130	0.029213	0.306907	0.042380	0.002811	0.002149	0.113306	0.000477	0.011007	0.005841	0.001626	0.016262
31-Jan-2023	0.040962	11.277000	16.900700	3.174950	41.233113	1.582450	0.029385	0.308718	0.042631	0.002828	0.002162	0.113973	0.000480	0.011072	0.005876	0.001636	0.016358
1-Feb-2023	0.040947	11.372000	17.043900	3.201460	41.579496	1.595810	0.029628	0.311264	0.042986	0.002851	0.002179	0.114891	0.000484	0.011164	0.005925	0.001650	0.016496
2-Feb-2023	0.040937	11.486200	17.215000	3.233610	41.997047	1.611830	0.029926	0.314391	0.043418	0.002880	0.002201	0.116046	0.000489	0.011276	0.005985	0.001666	0.016661
3-Feb-2023	0.040928	11.596000	17.379600	3.264520	42.398505	1.627240	0.030212	0.317396	0.043833	0.002907	0.002222	0.117155	0.000494	0.011384	0.006042	0.001682	0.016821
4-Feb-2023	0.040921	11.702300	17.538900	3.294430	42.787106	1.642150	0.030489	0.320304	0.044235	0.002934	0.002243	0.118228	0.000498	0.011488	0.006097	0.001697	0.016975
5-Feb-2023	0.040912	11.803100	17.690000	3.322820	43.155713	1.656310	0.030751	0.323065	0.044616	0.002959	0.002262	0.119247	0.000503	0.011587	0.006150	0.001712	0.017121
6-Feb-2023	0.040905	11.891000	17.821700	3.347550	43.477038	1.668640	0.030980	0.325469	0.044948	0.002981	0.002279	0.120135	0.000507	0.011674	0.006195	0.001725	0.017249
7-Feb-2023	0.040898	11.971800	17.942900	3.370300	43.772480	1.679990	0.031191	0.327682	0.045253	0.003001	0.002294	0.120951	0.000510	0.011753	0.006238	0.001737	0.017366
8-Feb-2023	0.040891	12.033100	18.034700	3.387540	43.996540	1.688580	0.031350	0.329357	0.045485	0.003017	0.002306	0.121570	0.000513	0.011813	0.006270	0.001745	0.017455
9-Feb-2023	0.040886	12.116900	18.160400	3.411140	44.302974	1.700350	0.031569	0.331652	0.045802	0.003038	0.002322	0.122417	0.000516	0.011895	0.006313	0.001758	0.017576
10-Feb-2023	0.040881	12.224400	18.321400	3.441390	44.695971	1.715430	0.031849	0.334593	0.046208	0.003065	0.002343	0.123502	0.000521	0.012001	0.006369	0.001773	0.017732
11-Feb-2023	0.040876	12.330000	18.479800	3.471130	45.082123	1.730260	0.032124	0.337485	0.046607	0.003091	0.002363	0.124569	0.000525	0.012105	0.006424	0.001789	0.017886
12-Feb-2023	0.040870	12.408700	18.597700	3.493270	45.369810	1.741300	0.032329	0.339637	0.046904	0.003111	0.002378	0.125363	0.000529	0.012182	0.006465	0.001800	0.018000
13-Feb-2023	0.040866	12.441000	18.646200	3.502340	45.487813	1.745830	0.032413	0.340519	0.047026	0.003119	0.002384	0.125689	0.000530	0.012213	0.006482	0.001805	0.018047
14-Feb-2023	0.040861	12.436000	18.638700	3.500920	45.469481	1.745130	0.032400	0.340381	0.047007	0.003118	0.002383	0.125637	0.000530	0.012209	0.006479	0.001804	0.018039
15-Feb-2023	0.040861	12.435200	18.637600	3.500710	45.466618	1.745040	0.032398	0.340360	0.047004	0.003117	0.002383	0.125629	0.000530	0.012208	0.006479	0.001804	0.018038
16-Feb-2023	0.040860	12.469500	18.689000	3.510310	45.591798	1.749840	0.032487	0.341294	0.047133	0.003126	0.002390	0.125973	0.000531	0.012241	0.006497	0.001809	0.018088

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
17-Feb-2023	0.040853	12.489200	18.718700	3.515860	45.663844	1.752620	0.032538	0.341832	0.047207	0.003131	0.002393	0.126170	0.000532	0.012261	0.006507	0.001812	0.018117
18-Feb-2023	0.040843	12.554900	18.817100	3.534330	45.903956	1.761840	0.032709	0.343628	0.047455	0.003147	0.002406	0.126833	0.000535	0.012325	0.006541	0.001821	0.018212
19-Feb-2023	0.040830	12.570200	18.840000	3.538620	45.959827	1.763990	0.032748	0.344045	0.047513	0.003151	0.002409	0.126986	0.000535	0.012340	0.006549	0.001823	0.018234
20-Feb-2023	0.040823	12.591300	18.871800	3.544570	46.037015	1.766960	0.032804	0.344623	0.047593	0.003157	0.002413	0.127199	0.000536	0.012361	0.006560	0.001826	0.018265
21-Feb-2023	0.040816	12.597300	18.880700	3.546300	46.059122	1.767810	0.032820	0.344800	0.047616	0.003158	0.002414	0.127270	0.000537	0.012367	0.006564	0.001827	0.018273
22-Feb-2023	0.040813	12.658300	18.972100	3.563450	46.282062	1.776370	0.032979	0.346467	0.047846	0.003173	0.002426	0.127884	0.000539	0.012427	0.006595	0.001836	0.018362
23-Feb-2023	0.040814	12.720300	19.065000	3.580870	46.508612	1.785060	0.033140	0.348160	0.048080	0.003189	0.002438	0.128508	0.000542	0.012487	0.006628	0.001845	0.018452
24-Feb-2023	0.040802	12.782200	19.157900	3.598290	46.734912	1.793760	0.033301	0.349853	0.048314	0.003205	0.002449	0.129132	0.000544	0.012548	0.006660	0.001854	0.018542
25-Feb-2023	0.040792	12.844100	19.250700	3.615700	46.961170	1.802450	0.033462	0.351544	0.048547	0.003220	0.002461	0.129755	0.000547	0.012609	0.006692	0.001863	0.018631
26-Feb-2023	0.040787	12.902800	19.338600	3.632200	47.175691	1.810680	0.033615	0.353148	0.048769	0.003235	0.002473	0.130346	0.000550	0.012667	0.006723	0.001872	0.018716
27-Feb-2023	0.040783	12.969400	19.438600	3.650950	47.419204	1.820040	0.033788	0.354970	0.049021	0.003251	0.002485	0.131018	0.000552	0.012732	0.006758	0.001881	0.018813
28-Feb-2023	0.040781	13.034800	19.536600	3.669350	47.658279	1.829220	0.033959	0.356758	0.049268	0.003268	0.002498	0.131678	0.000555	0.012796	0.006792	0.001891	0.018908
1-Mar-2023	0.040776	13.095400	19.627500	3.686390	47.879768	1.837720	0.034116	0.358414	0.049496	0.003283	0.002509	0.132288	0.000558	0.012856	0.006823	0.001900	0.018996
2-Mar-2023	0.040771	13.158100	19.721500	3.704040	48.109012	1.846530	0.034280	0.360130	0.049733	0.003299	0.002521	0.132920	0.000561	0.012917	0.006856	0.001909	0.019087
3-Mar-2023	0.040769	13.229600	19.828700	3.724160	48.370402	1.856560	0.034466	0.362085	0.050004	0.003317	0.002535	0.133642	0.000564	0.012987	0.006893	0.001919	0.019191
4-Mar-2023	0.040765	13.301700	19.936800	3.744450	48.633990	1.866680	0.034654	0.364057	0.050276	0.003335	0.002549	0.134369	0.000567	0.013058	0.006931	0.001930	0.019295
5-Mar-2023	0.040760	13.367000	20.034600	3.762810	48.872651	1.875840	0.034823	0.365842	0.050522	0.003351	0.002561	0.135027	0.000569	0.013122	0.006965	0.001939	0.019390
6-Mar-2023	0.040756	13.429200	20.127900	3.780320	49.100070	1.884580	0.034985	0.367543	0.050758	0.003367	0.002573	0.135655	0.000572	0.013183	0.006997	0.001948	0.019480
7-Mar-2023	0.040753	13.495900	20.228000	3.799100	49.343956	1.893940	0.035159	0.369369	0.051010	0.003383	0.002586	0.136328	0.000575	0.013249	0.007032	0.001958	0.019577
8-Mar-2023	0.040752	13.606700	20.394000	3.830260	49.748941	1.909480	0.035448	0.372399	0.051428	0.003411	0.002607	0.137446	0.000580	0.013357	0.007090	0.001974	0.019738
9-Mar-2023	0.040748	13.718200	20.561000	3.861640	50.156579	1.925130	0.035738	0.375448	0.051849	0.003439	0.002629	0.138571	0.000584	0.013467	0.007148	0.001990	0.019899
10-Mar-2023	0.040742	13.813100	20.703400	3.888360	50.503577	1.938460	0.035985	0.378046	0.052208	0.003463	0.002647	0.139530	0.000588	0.013560	0.007197	0.002004	0.020037
11-Mar-2023	0.040742	13.909900	20.848500	3.915600	50.857461	1.952040	0.036237	0.380694	0.052574	0.003487	0.002665	0.140507	0.000593	0.013655	0.007248	0.002018	0.020177
12-Mar-2023	0.040739	12.740100	19.095200	3.586250	46.580207	1.787880	0.033189	0.348669	0.048152	0.003194	0.002441	0.128684	0.000543	0.012506	0.006638	0.001848	0.018481
13-Mar-2023	0.040738	12.815400	19.208300	3.607460	46.855574	1.798460	0.033385	0.350731	0.048437	0.003213	0.002456	0.129444	0.000546	0.012580	0.006677	0.001859	0.018590
14-Mar-2023	0.040738	12.893300	19.324900	3.629360	47.140275	1.809380	0.033588	0.352860	0.048731	0.003232	0.002471	0.130229	0.000549	0.012657	0.006718	0.001870	0.018703
15-Mar-2023	0.040738	12.965200	19.432700	3.649610	47.403198	1.819480	0.033775	0.354828	0.049002	0.003250	0.002484	0.130955	0.000552	0.012727	0.006755	0.001881	0.018807
16-Mar-2023	0.040738	13.029800	19.529500	3.667780	47.639329	1.828540	0.033943	0.356594	0.049246	0.003266	0.002497	0.131607	0.000555	0.012791	0.006789	0.001890	0.018901
17-Mar-2023	0.040738	13.093300	19.624700	3.685650	47.871477	1.837450	0.034109	0.358332	0.049486	0.003282	0.002509	0.132249	0.000558	0.012853	0.006822	0.001899	0.018993
18-Mar-2023	0.040737	13.154900	19.717100	3.703010	48.096780	1.846100	0.034269	0.360019	0.049719	0.003298	0.002521	0.132871	0.000560	0.012914	0.006854	0.001908	0.019082
19-Mar-2023	0.040736	13.213700	19.805300	3.719560	48.311757	1.854360	0.034423	0.361629	0.049942	0.003312	0.002532	0.133465	0.000563	0.012971	0.006885	0.001917	0.019168
20-Mar-2023	0.040735	13.268000	19.886600	3.734830	48.510226	1.861970	0.034564	0.363113	0.050147	0.003326	0.002542	0.134013	0.000565	0.013025	0.006913	0.001925	0.019246
21-Mar-2023	0.040735	13.322700	19.968600	3.750220	48.710188	1.869650	0.034706	0.364609	0.050353	0.003340	0.002553	0.134565	0.000568	0.013078	0.006942	0.001933	0.019326
22-Mar-2023	0.040735	13.389500	20.068800	3.769030	48.954447	1.879030	0.034880	0.366438	0.050606	0.003357	0.002566	0.135239	0.000570	0.013144	0.006976	0.001942	0.019423
23-Mar-2023	0.040735	13.479900	20.204300	3.794490	49.285020	1.891720	0.035116	0.368913	0.050948	0.003379	0.002583	0.136153	0.000574	0.013233	0.007024	0.001955	0.019554
24-Mar-2023	0.040734	13.196900	19.780200	3.714800	48.250206	1.852000	0.034378	0.361164	0.049878	0.003308	0.002529	0.133292	0.000562	0.012955	0.006876	0.001914	0.019143
25-Mar-2023	0.040733	13.262500	19.878400	3.733250	48.489986	1.861210	0.034549	0.362958	0.050125	0.003325	0.002541	0.133954	0.000565	0.013019	0.006910	0.001924	0.019238
26-Mar-2023	0.040733	13.312700	19.953700	3.747390	48.673564	1.868250	0.034680	0.364333	0.050315	0.003337	0.002551	0.134462	0.000567	0.013068	0.006936	0.001931	0.019311
27-Mar-2023	0.040733	13.358600	20.022500	3.760310	48.841381	1.874690	0.034800	0.365588	0.050489	0.003349	0.002560	0.134925	0.000569	0.013113	0.006960	0.001938	0.019378
28-Mar-2023	0.040733	13.408500	20.097300	3.774350	49.023798	1.881690	0.034930	0.366954	0.050677	0.003361	0.002569	0.135429	0.000571	0.013162	0.006986	0.001945	0.019450
29-Mar-2023	0.040732	13.465700	20.183100	3.790460	49.232967	1.889730	0.035079	0.368520	0.050893	0.003376	0.002580	0.136007	0.000574	0.013219	0.007016	0.001953	0.019533
30-Mar-2023	0.040732	13.542100	20.297600	3.811970	49.512316	1.900450	0.035278	0.370612	0.051182	0.003395	0.002595	0.136779	0.000577	0.013294	0.007056	0.001964	0.019644
31-Mar-2023	0.040732	13.595800	20.378000	3.827080	49.708628	1.907980	0.035418	0.372080	0.051385	0.003408	0.002605	0.137321	0.000579	0.013346	0.007084	0.001972	0.019722
1-Apr-2023	0.040732	13.625900	20.423100	3.835550	49.818667	1.912200	0.035496	0.372904	0.051499	0.003416	0.002611	0.137625	0.000580	0.013376	0.007100	0.001977	0.019766
2-Apr-2023	0.040731	13.658200	20.471600	3.844650	49.936794	1.916740	0.035580	0.373789	0.051621	0.003424	0.002617	0.137952	0.000582	0.013408	0.007117	0.001981	0.019812
3-Apr-2023	0.040731	13.713700	20.554700	3.860270	50.139701	1.924520	0.035725	0.375308	0.051831	0.003438	0.002628	0.138512	0.000584	0.013462	0.007145	0.001989	0.019893
4-Apr-2023	0.040731	13.734800	20.586300	3.866210	50.216848	1.927480	0.035780	0.375885	0.051911	0.003443	0.002632	0.138726	0.000585	0.013483	0.007156	0.001992	0.019924
5-Apr-2023	0.040731	13.739500	20.593400	3.867540	50.234061	1.928150	0.035792	0.376014	0.051928	0.003444	0.002633	0.138773	0.000585	0.013487	0.007159	0.001993	0.019930
6-Apr-2023	0.040731	13.735100	20.586800	3.866300	50.217968	1.927530	0.035781	0.375894	0.051912	0.003443	0.002632	0.138729	0.000585	0.013483	0.007157	0.001992	0.019924
7-Apr-2023	0.040731	13.713600	20.554600	3.860260	50.139410	1.924520	0.035725	0.375307	0.051831	0.003438	0.002628	0.138512	0.000584	0.013462	0.007145	0.001989	0.019893
8-Apr-2023	0.040731	13.684700	20.511200	3.852110	50.033685	1.920450	0.035649	0.374514	0.051721	0.003431	0.002622	0.138220	0.000583	0.013434	0.007130	0.001985	0.019851
9-Apr-2023	0.040731	13.674600	20.496100	3.849260	49.996729	1.919030	0.035623	0.374237	0.051683	0.003428	0.002620	0.138117	0.000583	0.013424	0.007125	0.001984	0.019836

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Apr-2023	0.040731	13.669900	20.489100	3.847940	49.979557	1.918380	0.035611	0.374109	0.051665	0.003427	0.002619	0.138070	0.000582	0.013419	0.007123	0.001983	0.019829
11-Apr-2023	0.040731	13.667300	20.485200	3.847210	49.970059	1.918010	0.035604	0.374038	0.051655	0.003426	0.002619	0.138044	0.000582	0.013417	0.007121	0.001983	0.019826
12-Apr-2023	0.040731	13.697500	20.530400	3.855700	50.080430	1.922250	0.035682	0.374864	0.051769	0.003434	0.002625	0.138349	0.000584	0.013446	0.007137	0.001987	0.019869
13-Apr-2023	0.040731	13.734300	20.585500	3.866060	50.214982	1.927410	0.035778	0.375871	0.051909	0.003443	0.002632	0.138720	0.000585	0.013482	0.007156	0.001992	0.019923
14-Apr-2023	0.040731	13.762700	20.628200	3.874080	50.318923	1.931410	0.035853	0.376651	0.052016	0.003450	0.002637	0.139008	0.000586	0.013510	0.007171	0.001996	0.019964
15-Apr-2023	0.040731	13.780200	20.654500	3.879010	50.382923	1.933860	0.035898	0.377130	0.052082	0.003454	0.002640	0.139185	0.000587	0.013527	0.007180	0.001999	0.019989
16-Apr-2023	0.040731	13.789000	20.667600	3.881470	50.415026	1.935090	0.035921	0.377369	0.052115	0.003457	0.002642	0.139273	0.000587	0.013536	0.007185	0.002000	0.020002
17-Apr-2023	0.040731	13.796500	20.678900	3.883590	50.442484	1.936150	0.035941	0.377575	0.052144	0.003459	0.002644	0.139349	0.000588	0.013543	0.007189	0.002001	0.020013
18-Apr-2023	0.040731	13.803300	20.689100	3.885510	50.467370	1.937100	0.035958	0.377761	0.052170	0.003460	0.002645	0.139418	0.000588	0.013550	0.007192	0.002002	0.020023
19-Apr-2023	0.040731	13.808700	20.697000	3.887000	50.486990	1.937850	0.035972	0.377907	0.052190	0.003462	0.002646	0.139472	0.000588	0.013555	0.007195	0.002003	0.020031
20-Apr-2023	0.040731	13.813000	20.703500	3.888220	50.502751	1.938460	0.035983	0.378025	0.052206	0.003463	0.002647	0.139515	0.000588	0.013560	0.007197	0.002004	0.020037
21-Apr-2023	0.040731	13.815800	20.707700	3.889010	50.512996	1.938850	0.035991	0.378102	0.052217	0.003463	0.002647	0.139544	0.000589	0.013562	0.007199	0.002004	0.020041
22-Apr-2023	0.040731	13.816900	20.709400	3.889310	50.516978	1.939000	0.035993	0.378131	0.052221	0.003464	0.002647	0.139555	0.000589	0.013563	0.007199	0.002004	0.020043
23-Apr-2023	0.040731	13.816700	20.709100	3.889260	50.516273	1.938980	0.035993	0.378126	0.052220	0.003464	0.002647	0.139553	0.000589	0.013563	0.007199	0.002004	0.020042
24-Apr-2023	0.040731	13.816300	20.708600	3.889160	50.514862	1.938930	0.035992	0.378117	0.052219	0.003464	0.002647	0.139549	0.000589	0.013563	0.007199	0.002004	0.020042
25-Apr-2023	0.040731	13.816000	20.708100	3.889080	50.513783	1.938890	0.035991	0.378109	0.052218	0.003463	0.002647	0.139546	0.000589	0.013563	0.007199	0.002004	0.020041
26-Apr-2023	0.040731	13.814700	20.706100	3.888700	50.508973	1.938700	0.035988	0.378072	0.052212	0.003463	0.002647	0.139532	0.000589	0.013561	0.007198	0.002004	0.020039
27-Apr-2023	0.040731	13.812300	20.702500	3.888030	50.500221	1.938360	0.035982	0.378007	0.052203	0.003463	0.002647	0.139508	0.000588	0.013559	0.007197	0.002004	0.020036
28-Apr-2023	0.040731	13.809200	20.697900	3.887160	50.488897	1.937930	0.035974	0.377922	0.052192	0.003462	0.002646	0.139477	0.000588	0.013556	0.007195	0.002003	0.020031
29-Apr-2023	0.040731	13.805700	20.692600	3.886160	50.476040	1.937430	0.035964	0.377825	0.052178	0.003461	0.002645	0.139442	0.000588	0.013552	0.007193	0.002003	0.020026
30-Apr-2023	0.040747	13.790600	20.669900	3.881910	50.420834	1.935310	0.035925	0.377411	0.052121	0.003457	0.002642	0.139289	0.000587	0.013538	0.007185	0.002000	0.020004
1-May-2023	0.040928	13.773300	20.644000	3.877040	50.357581	1.932890	0.035880	0.376938	0.052056	0.003453	0.002639	0.139114	0.000587	0.013521	0.007176	0.001998	0.019979
2-May-2023	0.041962	13.762100	20.627300	3.873900	50.316684	1.931320	0.035851	0.376633	0.052014	0.003450	0.002637	0.139002	0.000586	0.013510	0.007171	0.001996	0.019963
3-May-2023	0.046257	13.596000	20.378200	3.827120	49.709292	1.908000	0.035418	0.372085	0.051386	0.003408	0.002605	0.137323	0.000579	0.013346	0.007084	0.001972	0.019722
4-May-2023	0.051204	13.580700	20.355300	3.822820	49.653381	1.905850	0.035378	0.371666	0.051328	0.003404	0.002602	0.137168	0.000579	0.013331	0.007076	0.001970	0.019700
5-May-2023	0.056099	13.554300	20.315800	3.815400	49.556904	1.902160	0.035309	0.370945	0.051228	0.003398	0.002597	0.136902	0.000577	0.013306	0.007062	0.001966	0.019662
6-May-2023	0.060752	13.512300	20.252800	3.803560	49.403273	1.896260	0.035200	0.369794	0.051069	0.003387	0.002589	0.136477	0.000576	0.013264	0.007040	0.001960	0.019601
7-May-2023	0.066242	13.478000	20.201400	3.793910	49.277887	1.891440	0.035111	0.368855	0.050940	0.003379	0.002582	0.136131	0.000574	0.013231	0.007023	0.001955	0.019551
8-May-2023	0.071063	13.442600	20.148400	3.783950	49.148478	1.886480	0.035018	0.367887	0.050806	0.003370	0.002576	0.135774	0.000573	0.013196	0.007004	0.001950	0.019500
9-May-2023	0.075661	13.411300	20.101400	3.775140	49.034043	1.882080	0.034937	0.367030	0.050688	0.003362	0.002570	0.135457	0.000571	0.013165	0.006988	0.001945	0.019454
10-May-2023	0.080114	13.370500	20.040300	3.763650	48.884849	1.876360	0.034831	0.365914	0.050534	0.003352	0.002562	0.135045	0.000570	0.013125	0.006967	0.001940	0.019395
11-May-2023	0.088359	13.317200	19.960400	3.748650	48.689989	1.868880	0.034692	0.364456	0.050332	0.003338	0.002552	0.134507	0.000567	0.013073	0.006939	0.001932	0.019318
12-May-2023	0.091847	13.273500	19.894900	3.736350	48.530219	1.862750	0.034578	0.363259	0.050167	0.003327	0.002543	0.134066	0.000565	0.013030	0.006916	0.001925	0.019254
13-May-2023	0.094922	13.215900	19.808700	3.720150	48.319680	1.854670	0.034428	0.361684	0.049949	0.003313	0.002532	0.133484	0.000563	0.012973	0.006886	0.001917	0.019171
14-May-2023	0.107231	13.135100	19.687500	3.697410	48.024279	1.843330	0.034217	0.359473	0.049644	0.003293	0.002517	0.132668	0.000560	0.012894	0.006844	0.001905	0.019054
15-May-2023	0.115146	13.067700	19.586500	3.678430	47.777822	1.833870	0.034042	0.357628	0.049389	0.003276	0.002504	0.131987	0.000557	0.012828	0.006809	0.001896	0.018956
16-May-2023	0.125229	12.951000	19.411600	3.645590	47.351187	1.817490	0.033738	0.354435	0.048948	0.003247	0.002482	0.130809	0.000552	0.012713	0.006748	0.001879	0.018787
17-May-2023	0.152637	12.841600	19.247600	3.614780	46.951139	1.802130	0.033453	0.351439	0.048535	0.003219	0.002461	0.129703	0.000547	0.012606	0.006691	0.001863	0.018628
18-May-2023	0.154023	12.760000	19.125200	3.591800	46.652752	1.790680	0.033240	0.349205	0.048226	0.003199	0.002445	0.128879	0.000544	0.012526	0.006648	0.001851	0.018509
19-May-2023	0.156061	12.658900	18.973700	3.563350	46.283149	1.776490	0.032977	0.346438	0.047845	0.003173	0.002426	0.127859	0.000539	0.012427	0.006596	0.001836	0.018363
20-May-2023	0.161034	12.496600	18.730400	3.517670	45.689775	1.753710	0.032554	0.341996	0.047231	0.003133	0.002394	0.126219	0.000532	0.012267	0.006511	0.001813	0.018127
21-May-2023	0.162532	12.149000	18.209400	3.419840	44.418954	1.704910	0.031648	0.332481	0.045918	0.003046	0.002328	0.122710	0.000518	0.011926	0.006330	0.001762	0.017623
22-May-2023	0.164951	11.857000	17.771800	3.337660	43.351413	1.663940	0.030888	0.324490	0.044815	0.002972	0.002272	0.119761	0.000505	0.011640	0.006178	0.001720	0.017200
23-May-2023	0.166850	11.664100	17.482500	3.283370	42.646175	1.636840	0.030384	0.319204	0.044087	0.002924	0.002235	0.117814	0.000497	0.011450	0.006077	0.001692	0.016920
24-May-2023	0.179036	11.202900	16.791100	3.153590	40.960125	1.572090	0.029183	0.306579	0.042347	0.002808	0.002147	0.113160	0.000477	0.010998	0.005837	0.001625	0.016251
25-May-2023	0.170675	11.040300	16.547300	3.107830	40.365673	1.549240	0.028759	0.302125	0.041733	0.002767	0.002116	0.111519	0.000470	0.010838	0.005752	0.001601	0.016015
26-May-2023	0.173925	10.778800	16.155300	3.034270	39.409787	1.512520	0.028077	0.294966	0.040747	0.002702	0.002066	0.108881	0.000459	0.010582	0.005616	0.001564	0.015635
27-May-2023	0.181084	10.521800	15.770000	2.961950	38.470245	1.476440	0.027408	0.287930	0.039777	0.002637	0.002016	0.106288	0.000448	0.010330	0.005482	0.001526	0.015262
28-May-2023	0.186131	10.346500	15.507100	2.912620	37.829380	1.451810	0.026951	0.283129	0.039115	0.002593	0.001983	0.104519	0.000441	0.010158	0.005391	0.001501	0.015008
29-May-2023	0.195449	10.267200	15.388100	2.890310	37.539495	1.440660	0.026744	0.280957	0.038816	0.002574	0.001968	0.103720	0.000437	0.010080	0.005350	0.001489	0.014893
30-May-2023	0.213309	10.133400	15.187400	2.852760	37.050765	1.421860	0.026396	0.277304	0.038313	0.002540	0.001942	0.102379	0.000432	0.009949	0.005280	0.001470	0.014699
31-May-2023	0.230631	10.080400	15.108100	2.837770	36.856696	1.414440	0.026257	0.275845	0.038112	0.002527	0.001932	0.101836	0.000429	0.009897	0.005252	0.001462	0.014622

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Jun-2023	0.244904	10.034400	15.038600	2.824930	36.688959	1.407900	0.026137	0.274585	0.037941	0.002515	0.001923	0.101385	0.000427	0.009852	0.005228	0.001455	0.014555
2-Jun-2023	0.284543	9.944110	14.902200	2.799850	36.360225	1.395090	0.025904	0.272143	0.037615	0.002492	0.001907	0.100507	0.000423	0.009765	0.005181	0.001442	0.014424
3-Jun-2023	0.314420	9.783310	14.656800	2.755730	35.777021	1.372040	0.025499	0.267915	0.037079	0.002451	0.001878	0.098995	0.000416	0.009613	0.005097	0.001419	0.014193
4-Jun-2023	0.419128	9.627230	14.413000	2.714400	35.217093	1.349060	0.025125	0.264130	0.036660	0.002410	0.001854	0.097662	0.000409	0.009475	0.005014	0.001397	0.013974
5-Jun-2023	0.466029	9.459080	14.144200	2.671360	34.619983	1.323630	0.024739	0.260276	0.036513	0.002363	0.001835	0.096488	0.000401	0.009334	0.004925	0.001374	0.013742
6-Jun-2023	0.487356	9.307890	13.905800	2.631910	34.080007	1.300720	0.024381	0.256684	0.036086	0.002321	0.001810	0.095179	0.000394	0.009205	0.004845	0.001353	0.013531
7-Jun-2023	0.552670	9.151070	13.646500	2.594030	33.532437	1.275970	0.024028	0.253178	0.035867	0.002275	0.001792	0.094122	0.000386	0.009084	0.004760	0.001332	0.013320
8-Jun-2023	0.652559	8.979100	13.361500	2.552660	32.932667	1.248280	0.023634	0.249291	0.035722	0.002224	0.001776	0.093084	0.000378	0.008954	0.004668	0.001309	0.013086
9-Jun-2023	0.772900	8.858400	13.163200	2.523200	32.509962	1.228720	0.023345	0.246379	0.035688	0.002189	0.001760	0.092216	0.000372	0.008861	0.004603	0.001292	0.012920
10-Jun-2023	0.899918	8.743400	12.974800	2.494970	32.106556	1.210080	0.023082	0.243858	0.035570	0.002156	0.001747	0.091425	0.000366	0.008770	0.004541	0.001276	0.012760
11-Jun-2023	1.036635	8.628110	12.784700	2.467020	31.703579	1.192410	0.022834	0.241387	0.035656	0.002122	0.001734	0.090694	0.000360	0.008683	0.004479	0.001261	0.012607
12-Jun-2023	1.231169	8.502260	12.574100	2.437250	31.266739	1.172240	0.022570	0.239167	0.036006	0.002085	0.001725	0.090002	0.000354	0.008592	0.004411	0.001244	0.012439
13-Jun-2023	1.474501	8.386210	12.378200	2.410260	30.865817	1.153460	0.022333	0.236529	0.036465	0.002050	0.001712	0.089324	0.000348	0.008511	0.004348	0.001229	0.012285
14-Jun-2023	1.715178	8.197440	12.071700	2.366240	30.213184	1.122440	0.022011	0.234509	0.036531	0.001996	0.001708	0.088791	0.000339	0.008379	0.004247	0.001203	0.012031
15-Jun-2023	1.911408	8.087640	11.888900	2.337780	29.821815	1.104090	0.021783	0.232320	0.036475	0.001964	0.001700	0.088253	0.000333	0.008303	0.004188	0.001187	0.011866
16-Jun-2023	2.126426	7.965380	11.681100	2.307780	29.392992	1.083870	0.021321	0.227343	0.036109	0.001929	0.001680	0.087042	0.000327	0.008188	0.004121	0.001169	0.011694
17-Jun-2023	2.318171	7.867330	11.516000	2.284680	29.053035	1.068130	0.021122	0.225032	0.036181	0.001900	0.001672	0.086546	0.000322	0.008118	0.004068	0.001156	0.011563
18-Jun-2023	2.359977	7.725340	11.271800	2.252710	28.566834	1.045330	0.020836	0.221516	0.036000	0.001857	0.001657	0.085667	0.000314	0.008026	0.003991	0.001138	0.011381
19-Jun-2023	2.404013	7.591100	11.039700	2.222450	28.107026	1.023640	0.020607	0.218960	0.035932	0.001817	0.001646	0.085061	0.000307	0.007939	0.003918	0.001121	0.011207
20-Jun-2023	2.397220	7.488780	10.862000	2.199750	27.758054	1.007360	0.020443	0.217063	0.036057	0.001787	0.001638	0.084617	0.000301	0.007876	0.003863	0.001107	0.011075
21-Jun-2023	2.409669	7.366050	10.650500	2.172910	27.341070	0.986872	0.020240	0.214651	0.035976	0.001751	0.001628	0.084133	0.000295	0.007796	0.003795	0.001092	0.010921
22-Jun-2023	2.457150	7.247000	10.455800	2.143120	26.921127	0.968575	0.020032	0.212355	0.036036	0.001721	0.001619	0.083654	0.000289	0.007706	0.003732	0.001075	0.010749
23-Jun-2023	2.521842	7.114990	10.228600	2.113610	26.469976	0.946426	0.019815	0.210274	0.036084	0.001678	0.001611	0.083137	0.000282	0.007637	0.003660	0.001057	0.010574
24-Jun-2023	2.612168	7.006800	10.047000	2.086790	26.089381	0.928730	0.019564	0.207717	0.036026	0.001645	0.001601	0.082520	0.000276	0.007554	0.003602	0.001042	0.010423
25-Jun-2023	2.729258	6.902440	9.872300	2.064230	25.735892	0.911683	0.019382	0.205985	0.036050	0.001618	0.001594	0.082104	0.000271	0.007490	0.003546	0.001029	0.010288
26-Jun-2023	2.815118	6.801560	9.700140	2.044750	25.403776	0.895118	0.019225	0.204281	0.036163	0.001587	0.001588	0.081746	0.000266	0.007433	0.003491	0.001017	0.010175
27-Jun-2023	2.883229	6.688970	9.507100	2.016290	25.005440	0.876792	0.018990	0.202261	0.036148	0.001555	0.001579	0.081223	0.000260	0.007349	0.003430	0.001001	0.010009
28-Jun-2023	2.958208	6.589620	9.348040	1.992500	24.659396	0.860910	0.018821	0.200639	0.036226	0.001533	0.001573	0.080853	0.000255	0.007283	0.003378	0.000987	0.009870
29-Jun-2023	3.004890	6.488140	9.168610	1.974480	24.331794	0.844056	0.018677	0.199207	0.036286	0.001500	0.001568	0.080570	0.000249	0.007230	0.003323	0.000976	0.009764
30-Jun-2023	3.102503	6.402430	9.019200	1.954280	24.034593	0.830260	0.018489	0.197365	0.036239	0.001476	0.001560	0.080716	0.000245	0.007170	0.003276	0.000965	0.009647
1-Jul-2023	3.223824	6.290480	8.833830	1.929590	23.653380	0.812984	0.018329	0.195855	0.035766	0.001449	0.001554	0.080656	0.000239	0.007102	0.003217	0.000950	0.009503
2-Jul-2023	4.461472	5.293960	7.180220	1.672030	20.104438	0.668959	0.016396	0.175280	0.033052	0.001174	0.001424	0.078175	0.000190	0.006389	0.002705	0.000822	0.008218
3-Jul-2023	5.469227	5.147490	6.964090	1.622410	19.534367	0.651363	0.016254	0.174115	0.032007	0.001180	0.001390	0.078900	0.000186	0.006230	0.002639	0.000798	0.007980
4-Jul-2023	6.218639	5.115680	6.916450	1.596910	19.349928	0.645022	0.015848	0.169563	0.031480	0.001181	0.001363	0.074264	0.000183	0.006198	0.002620	0.000789	0.007888
5-Jul-2023	6.986692	5.329810	7.303710	1.630670	20.023635	0.684307	0.016550	0.178040	0.031565	0.001248	0.001366	0.079511	0.000196	0.006354	0.002749	0.000820	0.008200
6-Jul-2023	7.707821	5.414700	7.446000	1.647460	20.304746	0.700674	0.016516	0.176208	0.031548	0.001288	0.001371	0.076175	0.000201	0.006421	0.002798	0.000831	0.008307
7-Jul-2023	8.838248	5.460560	7.529280	1.658480	20.464639	0.706330	0.016499	0.175838	0.031498	0.001295	0.001373	0.076407	0.000204	0.006440	0.002821	0.000837	0.008366
8-Jul-2023	9.056768	5.706600	7.987740	1.698710	21.244668	0.752559	0.016951	0.180625	0.031623	0.001371	0.001380	0.075935	0.000219	0.006594	0.002967	0.000875	0.008746
9-Jul-2023	9.674452	5.861030	8.260800	1.724870	21.738007	0.779106	0.017216	0.183072	0.031826	0.001419	0.001382	0.076488	0.000228	0.006715	0.003059	0.000896	0.008963
10-Jul-2023	9.878962	5.873270	8.285600	1.734440	21.807979	0.779834	0.017184	0.182863	0.031501	0.001421	0.001385	0.076465	0.000229	0.006686	0.003057	0.000897	0.008970
11-Jul-2023	11.081619	6.067700	8.630590	1.762830	22.410381	0.814460	0.017559	0.186447	0.031910	0.001482	0.001390	0.077737	0.000240	0.006856	0.003178	0.000925	0.009252
12-Jul-2023	11.511381	6.120050	8.721590	1.771470	22.576678	0.824771	0.017703	0.187972	0.031966	0.001503	0.001392	0.078270	0.000243	0.006899	0.003210	0.000933	0.009326
13-Jul-2023	11.402817	5.851340	8.232140	1.732680	21.745972	0.775968	0.017232	0.183426	0.031440	0.001423	0.001387	0.076947	0.000227	0.006685	0.003044	0.000892	0.008916
14-Jul-2023	11.744462	5.869660	8.267700	1.736280	21.806542	0.778854	0.017235	0.183413	0.031394	0.001427	0.001387	0.076918	0.000228	0.006691	0.003054	0.000894	0.008943
15-Jul-2023	11.996845	5.938590	8.395200	1.747290	22.023999	0.791393	0.017348	0.184548	0.031437	0.001448	0.001388	0.077089	0.000232	0.006736	0.003095	0.000905	0.009047
16-Jul-2023	12.940987	6.073710	8.643200	1.768250	22.447707	0.816236	0.017591	0.186987	0.031590	0.001490	0.001391	0.077482	0.000241	0.006833	0.003177	0.000925	0.009253
17-Jul-2023	13.947060	5.965320	8.448370	1.753320	22.115576	0.796671	0.017508	0.187805	0.031378	0.001457	0.001388	0.079725	0.000234	0.006742	0.003109	0.000909	0.009091
18-Jul-2023	14.258881	6.331220	9.116070	1.811770	23.269925	0.866194	0.018176	0.193347	0.031729	0.001580	0.001396	0.078864	0.000257	0.006999	0.003329	0.000965	0.009648
19-Jul-2023	14.690387	6.442210	9.317690	1.829130	23.618556	0.887301	0.018420	0.195965	0.031856	0.001617	0.001398	0.079290	0.000264	0.007082	0.003396	0.000982	0.009816
20-Jul-2023	15.136094	6.483300	9.393010	1.834560	23.743518	0.894259	0.018469	0.196344	0.031961	0.001628	0.001399	0.079312	0.000266	0.007118	0.003421	0.000988	0.009877
21-Jul-2023	15.474951	6.492080	9.410600	1.836210	23.772237	0.895921	0.018476	0.196429	0.031904	0.001630	0.001399	0.079281	0.000267	0.007117	0.003426	0.000989	0.009891
22-Jul-2023	15.662277	6.468430	9.362290	1.831680	23.694528	0.892304	0.018491	0.196594	0.031914	0.001628	0.001398	0.079475	0.000265	0.007111	0.003414	0.000985	0.009850

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Jul-2023	16.024281	6.321920	9.094020	1.810250	23.240444	0.866478	0.018275	0.194577	0.031640	0.001588	0.001395	0.079294	0.000256	0.006997	0.003324	0.000963	0.009627
24-Jul-2023	16.112119	6.519510	9.458760	1.840680	23.859137	0.902004	0.018583	0.197605	0.031858	0.001645	0.001399	0.079662	0.000268	0.007136	0.003443	0.000993	0.009928
25-Jul-2023	15.061666	6.354820	9.160140	1.815750	23.345244	0.871273	0.018247	0.194173	0.031573	0.001593	0.001395	0.079063	0.000258	0.007008	0.003342	0.000968	0.009678
26-Jul-2023	14.604777	6.412210	9.265930	1.824840	23.525979	0.881822	0.018347	0.195164	0.031609	0.001611	0.001396	0.079242	0.000262	0.007047	0.003376	0.000976	0.009765
27-Jul-2023	14.621896	6.825320	10.021600	1.888120	24.818102	0.957420	0.019088	0.202601	0.032172	0.001736	0.001404	0.080405	0.000287	0.007352	0.003627	0.001039	0.010392
28-Jul-2023	13.990430	6.617330	9.642400	1.857020	24.170681	0.920038	0.018739	0.199207	0.031825	0.001676	0.001400	0.079929	0.000275	0.007191	0.003500	0.001008	0.010077
29-Jul-2023	13.456013	6.762870	9.909950	1.879790	24.627862	0.946739	0.018996	0.201799	0.031983	0.001720	0.001403	0.080331	0.000284	0.007294	0.003587	0.001030	0.010298
30-Jul-2023	13.883228	6.810010	10.004700	1.889470	24.785432	0.955340	0.019039	0.202347	0.031904	0.001732	0.001403	0.080288	0.000287	0.007303	0.003612	0.001038	0.010375
31-Jul-2023	14.129262	6.820950	10.026300	1.891460	24.820944	0.957094	0.019040	0.202322	0.031871	0.001734	0.001403	0.080277	0.000288	0.007309	0.003618	0.001039	0.010391
1-Aug-2023	14.693040	6.648630	9.712920	1.865920	24.285488	0.924495	0.018684	0.198613	0.031576	0.001683	0.001399	0.079807	0.000277	0.007171	0.003512	0.001013	0.010129
2-Aug-2023	14.883128	6.631710	9.675830	1.861730	24.225984	0.921909	0.018692	0.198616	0.031560	0.001681	0.001399	0.079925	0.000276	0.007173	0.003504	0.001010	0.010097
3-Aug-2023	14.925487	6.779990	9.950980	1.885790	24.695318	0.947950	0.018886	0.200479	0.031671	0.001725	0.001402	0.080505	0.000285	0.007270	0.003592	0.001033	0.010325
4-Aug-2023	15.425683	6.964410	10.287300	1.914150	25.272601	0.981805	0.019226	0.203902	0.031916	0.001784	0.001405	0.080918	0.000297	0.007406	0.003704	0.001060	0.010604
5-Aug-2023	15.408696	6.846460	10.073800	1.897260	24.908527	0.959757	0.018981	0.201434	0.031666	0.001749	0.001403	0.080608	0.000290	0.007309	0.003631	0.001043	0.010425
6-Aug-2023	15.455606	6.839570	10.062400	1.897340	24.891652	0.957896	0.018933	0.200908	0.031552	0.001748	0.001402	0.080650	0.000289	0.007295	0.003625	0.001041	0.010413
7-Aug-2023	15.656817	7.112080	10.560900	1.939140	25.744242	1.007370	0.019403	0.205570	0.031921	0.001831	0.001408	0.081414	0.000306	0.007496	0.003790	0.001083	0.010827
8-Aug-2023	15.655013	6.991400	10.340400	1.920590	25.366515	0.985446	0.019192	0.203473	0.031752	0.001794	0.001405	0.081074	0.000299	0.007406	0.003717	0.001064	0.010644
9-Aug-2023	15.742547	7.159740	10.654600	1.948200	25.900558	1.014430	0.019377	0.205157	0.031857	0.001843	0.001408	0.081377	0.000309	0.007511	0.003817	0.001090	0.010904
10-Aug-2023	15.919866	7.035570	10.437400	1.932810	25.527130	0.989217	0.019035	0.201593	0.031492	0.001802	0.001405	0.080900	0.000302	0.007392	0.003736	0.001072	0.010720
11-Aug-2023	16.150228	7.151850	10.643800	1.948780	25.883245	1.011660	0.019287	0.204141	0.031684	0.001841	0.001408	0.081367	0.000309	0.007488	0.003809	0.001089	0.010891
12-Aug-2023	15.704345	7.199790	10.726800	1.955510	26.030666	1.019960	0.019367	0.204835	0.031792	0.001858	0.001409	0.081686	0.000312	0.007534	0.003839	0.001096	0.010959
13-Aug-2023	15.481409	7.192310	10.717100	1.955800	26.013182	1.017590	0.019286	0.203938	0.031678	0.001855	0.001409	0.081583	0.000311	0.007514	0.003833	0.001095	0.010950
14-Aug-2023	15.247740	7.359380	10.998500	1.976930	26.517370	1.046830	0.019647	0.207146	0.032315	0.001913	0.001416	0.082702	0.000321	0.007702	0.003942	0.001118	0.011185
15-Aug-2023	14.958983	7.305730	10.919000	1.972690	26.365945	1.037490	0.019476	0.205697	0.031851	0.001893	0.001412	0.082137	0.000318	0.007609	0.003903	0.001112	0.011115
16-Aug-2023	15.111683	7.543580	11.360600	2.012140	27.122312	1.078880	0.019769	0.208449	0.031996	0.001966	0.001416	0.082786	0.000333	0.007758	0.004043	0.001148	0.011481
17-Aug-2023	14.850145	7.336250	10.982100	1.980200	26.473080	1.041600	0.019422	0.205060	0.031682	0.001903	0.001411	0.082188	0.000320	0.007604	0.003917	0.001116	0.011165
18-Aug-2023	14.844255	7.393000	11.085600	1.988950	26.650817	1.051870	0.019518	0.206010	0.031732	0.001921	0.001412	0.082376	0.000324	0.007645	0.003951	0.001125	0.011249
19-Aug-2023	13.396857	7.429810	11.152300	1.995610	26.770158	1.057390	0.019529	0.206004	0.031715	0.001935	0.001413	0.082621	0.000326	0.007667	0.003973	0.001130	0.011304
20-Aug-2023	13.091389	7.396310	11.095900	1.991780	26.670736	1.050380	0.019402	0.204662	0.031551	0.001923	0.001412	0.082397	0.000324	0.007627	0.003950	0.001125	0.011254
21-Aug-2023	12.824294	7.620700	11.507400	2.026700	27.374839	1.090630	0.019761	0.208166	0.031820	0.001991	0.001417	0.083018	0.000338	0.007788	0.004085	0.001159	0.011594
22-Aug-2023	12.484970	7.394650	11.101000	1.995750	26.682940	1.047510	0.019305	0.203568	0.031428	0.001924	0.001412	0.083182	0.000325	0.007607	0.003944	0.001126	0.011255
23-Aug-2023	12.152040	7.574180	11.423700	2.021270	27.236317	1.080990	0.019613	0.206581	0.031648	0.001981	0.001415	0.083088	0.000336	0.007742	0.004055	0.001152	0.011524
24-Aug-2023	12.182236	7.600620	11.471400	2.025510	27.319798	1.085700	0.019656	0.207023	0.031664	0.001991	0.001416	0.083214	0.000337	0.007761	0.004071	0.001156	0.011563
25-Aug-2023	11.329238	7.596070	11.470000	2.026680	27.313255	1.083540	0.019549	0.205868	0.031467	0.001987	0.001415	0.083024	0.000337	0.007735	0.004065	0.001156	0.011558
26-Aug-2023	10.929147	7.565130	11.409900	2.021890	27.216273	1.077920	0.019510	0.205498	0.031422	0.001982	0.001415	0.083182	0.000335	0.007718	0.004047	0.001151	0.011507
27-Aug-2023	10.850145	7.821690	11.881100	2.061830	28.021376	1.123930	0.019916	0.209476	0.031733	0.002059	0.001420	0.083837	0.000351	0.007901	0.004202	0.001190	0.011898
28-Aug-2023	9.566103	7.628820	11.526400	2.032830	27.420357	1.087870	0.019543	0.205650	0.031424	0.002003	0.001416	0.083452	0.000339	0.007758	0.004085	0.001160	0.011602
29-Aug-2023	9.226306	7.661500	11.588400	2.038760	27.526379	1.093150	0.019555	0.205709	0.031392	0.002014	0.001417	0.083549	0.000341	0.007773	0.004103	0.001165	0.011652
30-Aug-2023	9.298649	7.711750	11.681400	2.048030	27.690027	1.101060	0.019575	0.205791	0.031366	0.002032	0.001417	0.083832	0.000345	0.007800	0.004132	0.001173	0.011726
31-Aug-2023	9.793585	8.083060	12.361100	2.105370	28.853314	1.168130	0.020197	0.211932	0.031842	0.002145	0.001425	0.084903	0.000367	0.008071	0.004356	0.001229	0.012290
1-Sep-2023	9.409355	7.779360	11.808000	2.058370	27.901430	1.113000	0.019660	0.206593	0.031397	0.002050	0.001418	0.083866	0.000349	0.007844	0.004172	0.001183	0.011830
2-Sep-2023	9.308360	7.952580	12.127800	2.084440	28.441316	1.144750	0.019953	0.209490	0.031604	0.002103	0.001421	0.084276	0.000360	0.007968	0.004277	0.001209	0.012094
3-Sep-2023	9.079811	8.066180	12.335800	2.101750	28.796258	1.165460	0.020149	0.211435	0.031744	0.002138	0.001423	0.084634	0.000367	0.008051	0.004346	0.001227	0.012265
4-Sep-2023	9.217806	8.071900	12.347200	2.102660	28.814288	1.166430	0.020145	0.211382	0.031713	0.002142	0.001422	0.084708	0.000367	0.008053	0.004350	0.001227	0.012273
5-Sep-2023	8.734060	7.934660	12.099300	2.081650	28.385081	1.141370	0.019881	0.208700	0.031463	0.002100	0.001418	0.084256	0.000359	0.007944	0.004266	0.001206	0.012064
6-Sep-2023	8.176815	7.989430	12.201700	2.089930	28.555938	1.151390	0.019962	0.209484	0.031498	0.002118	0.001418	0.084389	0.000362	0.007980	0.004299	0.001215	0.012147
7-Sep-2023	8.067050	8.020420	12.260500	2.094580	28.652469	1.157060	0.020001	0.209850	0.031493	0.002128	0.001418	0.084477	0.000364	0.007999	0.004318	0.001219	0.012194
8-Sep-2023	7.659189	8.057210	12.327700	2.100380	28.768218	1.163670	0.020055	0.210369	0.031502	0.002143	0.001418	0.084724	0.000367	0.008024	0.004340	0.001225	0.012248
9-Sep-2023	7.417672	8.130690	12.464300	2.111540	28.997655	1.177110	0.020166	0.211461	0.031547	0.002168	0.001419	0.084977	0.000371	0.008074	0.004385	0.001236	0.012358
10-Sep-2023	7.275008	8.154270	12.508100	2.115130	29.071318	1.181360	0.020199	0.211771	0.031556	0.002176	0.001419	0.085057	0.000373	0.008090	0.004399	0.001239	0.012393
11-Sep-2023	6.752980	8.325040	12.823400	2.140650	29.602822	1.212740	0.020496	0.214730	0.031784	0.002225	0.001421	0.085359	0.000383	0.008213	0.004503	0.001265	0.012654
12-Sep-2023	6.198785	8.432890	13.021800	2.156950	29.939246	1.232480	0.020681	0.216570	0.031919	0.002258	0.001423	0.085633	0.000390	0.008291	0.004568	0.001282	0.012818

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Sep-2023	5.980135	8.780470	13.658100	2.209730	31.024502	1.295970	0.021290	0.222617	0.032379	0.002365	0.001429	0.086647	0.000411	0.008548	0.004779	0.001334	0.013344
14-Sep-2023	5.165206	8.318380	12.815500	2.139730	29.582403	1.211380	0.020445	0.214168	0.031667	0.002225	0.001420	0.085323	0.000383	0.008198	0.004498	0.001264	0.012643
15-Sep-2023	4.661070	8.341510	12.859900	2.143180	29.654366	1.215590	0.020471	0.214399	0.031663	0.002232	0.001419	0.085336	0.000385	0.008211	0.004512	0.001268	0.012678
16-Sep-2023	3.854220	8.381630	12.935200	2.149300	29.779748	1.222960	0.020530	0.214982	0.031678	0.002245	0.001419	0.085428	0.000387	0.008236	0.004536	0.001274	0.012739
17-Sep-2023	3.585974	8.426010	13.017900	2.156000	29.918155	1.231100	0.020603	0.215700	0.031722	0.002258	0.001420	0.085527	0.000390	0.008267	0.004563	0.001281	0.012806
18-Sep-2023	3.388490	8.588540	13.317000	2.180520	30.424966	1.260920	0.020881	0.218471	0.031917	0.002308	0.001422	0.085944	0.000400	0.008384	0.004661	0.001305	0.013053
19-Sep-2023	2.923027	8.516540	13.187500	2.169680	30.200543	1.247640	0.020731	0.216942	0.031757	0.002287	0.001420	0.085730	0.000396	0.008325	0.004617	0.001294	0.012943
20-Sep-2023	2.524125	8.569420	13.284900	2.177680	30.365528	1.257310	0.020823	0.217853	0.031827	0.002303	0.001421	0.085875	0.000399	0.008364	0.004650	0.001302	0.013023
21-Sep-2023	2.802409	8.786940	13.697700	2.209750	31.040740	1.297820	0.021142	0.220991	0.031937	0.002369	0.001422	0.086200	0.000413	0.008498	0.004781	0.001336	0.013357
22-Sep-2023	2.911324	8.928650	13.943000	2.232160	31.486874	1.322970	0.021449	0.224067	0.032288	0.002414	0.001427	0.086888	0.000421	0.008628	0.004868	0.001357	0.013567
23-Sep-2023	2.760295	8.941720	13.973200	2.233490	31.524987	1.325660	0.021443	0.223971	0.032229	0.002418	0.001425	0.086782	0.000422	0.008627	0.004876	0.001359	0.013588
24-Sep-2023	2.317846	8.752850	13.628800	2.204990	30.936015	1.291070	0.021092	0.220449	0.031912	0.002362	0.001421	0.086308	0.000411	0.008483	0.004761	0.001330	0.013300
25-Sep-2023	1.899130	8.762340	13.648400	2.206410	30.965559	1.292840	0.021096	0.220472	0.031887	0.002365	0.001420	0.086284	0.000411	0.008485	0.004766	0.001331	0.013315
26-Sep-2023	1.813344	8.845930	13.802800	2.219090	31.226500	1.308130	0.021235	0.221849	0.031977	0.002391	0.001421	0.086488	0.000417	0.008544	0.004817	0.001344	0.013442
27-Sep-2023	1.639176	8.949230	14.000700	2.234200	31.546663	1.327410	0.021379	0.223259	0.032014	0.002421	0.001421	0.086556	0.000423	0.008605	0.004879	0.001360	0.013601
28-Sep-2023	1.742984	9.327490	14.682500	2.292200	32.730022	1.396070	0.022093	0.230375	0.032658	0.002538	0.001431	0.087860	0.000446	0.008905	0.005109	0.001417	0.014170
29-Sep-2023	1.687645	9.526340	15.052600	2.321890	33.348814	1.432730	0.022419	0.233605	0.032863	0.002598	0.001433	0.088246	0.000459	0.009042	0.005230	0.001447	0.014474
30-Sep-2023	1.512440	9.214570	14.484600	2.274460	32.375008	1.375700	0.021847	0.227879	0.032383	0.002503	0.001426	0.087341	0.000440	0.008805	0.005040	0.001400	0.014001
1-Oct-2023	1.305113	9.040290	14.171300	2.247140	31.827327	1.344370	0.021525	0.224754	0.032106	0.002448	0.001421	0.086739	0.000429	0.008669	0.004935	0.001374	0.013741
2-Oct-2023	1.296729	8.863160	13.844400	2.220690	31.276112	1.311490	0.021203	0.221454	0.031846	0.002396	0.001418	0.086322	0.000418	0.008540	0.004827	0.001347	0.013468
3-Oct-2023	1.284447	8.831030	13.785300	2.215700	31.175335	1.305620	0.021145	0.220858	0.031793	0.002388	0.001417	0.086261	0.000416	0.008516	0.004808	0.001342	0.013418
4-Oct-2023	1.426153	8.807680	13.743600	2.211700	31.100558	1.301580	0.021106	0.220495	0.031767	0.002380	0.001416	0.086195	0.000415	0.008499	0.004794	0.001338	0.013384
5-Oct-2023	1.508937	8.789280	13.710600	2.208530	31.041559	1.298380	0.021074	0.220182	0.031741	0.002375	0.001415	0.086119	0.000414	0.008485	0.004783	0.001336	0.013356
6-Oct-2023	2.060405	8.771150	13.678900	2.205260	30.982822	1.295300	0.021043	0.219897	0.031720	0.002369	0.001414	0.086008	0.000413	0.008471	0.004772	0.001333	0.013330
7-Oct-2023	2.011506	8.741660	13.627000	2.199940	30.887278	1.290280	0.020991	0.219412	0.031680	0.002360	0.001413	0.085947	0.000411	0.008449	0.004755	0.001329	0.013287
8-Oct-2023	1.076137	8.725050	13.597900	2.196920	30.833366	1.287460	0.020960	0.219118	0.031655	0.002355	0.001413	0.086069	0.000410	0.008435	0.004745	0.001326	0.013262
9-Oct-2023	0.561055	8.716230	13.582600	2.195220	30.804342	1.286000	0.020943	0.218949	0.031629	0.002353	0.001411	0.085945	0.000410	0.008428	0.004740	0.001325	0.013249
10-Oct-2023	0.933302	8.703490	13.558600	2.193480	30.765365	1.283650	0.020925	0.218790	0.031623	0.002349	0.001411	0.085747	0.000409	0.008420	0.004732	0.001323	0.013230
11-Oct-2023	0.744019	8.659820	13.481100	2.185810	30.624736	1.276130	0.020849	0.218076	0.031563	0.002336	0.001409	0.085562	0.000406	0.008387	0.004707	0.001317	0.013166
12-Oct-2023	0.737677	8.640970	13.447200	2.182450	30.563831	1.272900	0.020815	0.217742	0.031523	0.002332	0.001408	0.085578	0.000405	0.008372	0.004696	0.001314	0.013136
13-Oct-2023	0.798946	8.612890	13.397400	2.177590	30.473702	1.268040	0.020768	0.217317	0.031501	0.002323	0.001407	0.085388	0.000404	0.008352	0.004679	0.001310	0.013096
14-Oct-2023	0.730117	8.616710	13.404800	2.178040	30.485094	1.268770	0.020773	0.217352	0.031501	0.002324	0.001407	0.085391	0.000404	0.008354	0.004681	0.001310	0.013102
15-Oct-2023	0.666436	8.604830	13.383300	2.176030	30.447152	1.266700	0.020752	0.217152	0.031474	0.002321	0.001406	0.085501	0.000403	0.008345	0.004674	0.001308	0.013083
16-Oct-2023	0.584297	8.589420	13.355000	2.173570	30.398543	1.263980	0.020727	0.216912	0.031448	0.002318	0.001406	0.085402	0.000402	0.008334	0.004665	0.001306	0.013059
17-Oct-2023	0.563123	8.653250	13.451000	2.190950	30.629497	1.272970	0.020892	0.218682	0.031729	0.002334	0.001418	0.086065	0.000405	0.008399	0.004699	0.001316	0.013158
18-Oct-2023	0.564372	8.697750	13.518300	2.202700	30.789000	1.279370	0.021002	0.219830	0.031884	0.002347	0.001426	0.086622	0.000407	0.008444	0.004723	0.001322	0.013224
19-Oct-2023	0.567377	8.725730	13.559000	2.210970	30.892922	1.283090	0.021082	0.220721	0.032054	0.002351	0.001433	0.086887	0.000408	0.008474	0.004737	0.001327	0.013270
20-Oct-2023	0.568871	8.749550	13.591800	2.219030	30.985592	1.286180	0.021158	0.221568	0.032208	0.002357	0.001440	0.087261	0.000409	0.008503	0.004749	0.001331	0.013308
21-Oct-2023	0.567278	8.784400	13.645300	2.227530	31.107615	1.291170	0.021239	0.222412	0.032326	0.002366	0.001445	0.087583	0.000411	0.008536	0.004768	0.001336	0.013361
22-Oct-2023	0.567861	8.824560	13.708700	2.237380	31.248457	1.297180	0.021333	0.223388	0.032463	0.002377	0.001451	0.087960	0.000413	0.008574	0.004790	0.001342	0.013422
23-Oct-2023	0.568011	8.863050	13.769300	2.246850	31.383564	1.302930	0.021424	0.224327	0.032595	0.002388	0.001457	0.088324	0.000414	0.008611	0.004811	0.001348	0.013480
24-Oct-2023	0.568894	8.900680	13.828000	2.256280	31.516359	1.308500	0.021514	0.225263	0.032728	0.002398	0.001463	0.088696	0.000416	0.008647	0.004832	0.001354	0.013537
25-Oct-2023	0.570317	8.933560	13.879400	2.264520	31.632393	1.313360	0.021592	0.226082	0.032844	0.002407	0.001468	0.089022	0.000418	0.008679	0.004850	0.001359	0.013587
26-Oct-2023	0.568808	8.973280	13.941800	2.274330	31.771971	1.319290	0.021686	0.227055	0.032981	0.002418	0.001474	0.089403	0.000420	0.008717	0.004872	0.001365	0.013647
27-Oct-2023	0.568551	8.987360	13.964200	2.277720	31.821089	1.321420	0.021718	0.227390	0.033028	0.002422	0.001477	0.089530	0.000420	0.008730	0.004879	0.001367	0.013668
28-Oct-2023	0.569139	9.017800	14.011800	2.285330	31.928436	1.325920	0.021791	0.228147	0.033135	0.002430	0.001481	0.089827	0.000422	0.008759	0.004896	0.001371	0.013714
29-Oct-2023	0.568851	9.057200	14.072600	2.295450	32.068492	1.331670	0.021887	0.229161	0.033285	0.002441	0.001488	0.090227	0.000424	0.008798	0.004917	0.001377	0.013774
30-Oct-2023	0.569093	9.099710	14.138400	2.306320	32.219402	1.337890	0.021991	0.230247	0.033444	0.002452	0.001495	0.090658	0.000426	0.008839	0.004940	0.001384	0.013839
31-Oct-2023	0.568035	9.123900	14.176000	2.312440	32.305006	1.341450	0.022049	0.230858	0.033532	0.002459	0.001499	0.090898	0.000427	0.008863	0.004953	0.001388	0.013876
1-Nov-2023	0.566613	9.163570	14.237900	2.322420	32.445160	1.347310	0.022144	0.231853	0.033676	0.002469	0.001506	0.091289	0.000429	0.008901	0.004975	0.001394	0.013936
2-Nov-2023	0.565043	9.215080	14.317900	2.335480	32.627561	1.354880	0.022269	0.233155	0.033864	0.002483	0.001514	0.091804	0.000431	0.008951	0.005003	0.001401	0.014014
3-Nov-2023	0.564520	9.130890	14.185400	2.314350	32.330326	1.342450	0.022064	0.230978	0.033537	0.002465	0.001500	0.091154	0.000427	0.008870	0.004957	0.001388	0.013883

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4-Nov-2023	0.564323	9.185380	14.272500	2.327690	32.521321	1.350600	0.022195	0.232369	0.033744	0.002476	0.001509	0.091497	0.000430	0.008921	0.004987	0.001397	0.013969
5-Nov-2023	0.563667	9.232010	14.344700	2.339580	32.686719	1.357430	0.022308	0.233556	0.033918	0.002488	0.001516	0.091968	0.000432	0.008967	0.005012	0.001404	0.014040
6-Nov-2023	0.563030	9.279420	14.418100	2.351680	32.854930	1.364380	0.022423	0.234765	0.034094	0.002501	0.001524	0.092448	0.000434	0.009013	0.005038	0.001411	0.014112
7-Nov-2023	0.562769	9.334630	14.503800	2.365710	33.050565	1.372490	0.022557	0.236166	0.034298	0.002516	0.001533	0.093002	0.000437	0.009067	0.005068	0.001420	0.014196
8-Nov-2023	0.561867	9.391110	14.591500	2.380020	33.250524	1.380790	0.022693	0.237594	0.034505	0.002531	0.001543	0.093566	0.000439	0.009122	0.005099	0.001428	0.014282
9-Nov-2023	0.560882	9.446190	14.677200	2.393950	33.445423	1.388900	0.022826	0.238983	0.034706	0.002546	0.001552	0.094113	0.000442	0.009175	0.005128	0.001437	0.014365
10-Nov-2023	0.559283	9.500480	14.761600	2.407670	33.637484	1.396890	0.022957	0.240352	0.034904	0.002561	0.001561	0.094653	0.000444	0.009228	0.005158	0.001445	0.014448
11-Nov-2023	0.558039	9.553040	14.843400	2.420960	33.823454	1.404630	0.023084	0.241677	0.035095	0.002575	0.001569	0.095177	0.000447	0.009279	0.005186	0.001453	0.014528
12-Nov-2023	0.556868	9.600770	14.917600	2.433020	33.992299	1.411660	0.023199	0.242880	0.035269	0.002588	0.001577	0.095653	0.000449	0.009325	0.005212	0.001460	0.014600
13-Nov-2023	0.555980	9.647780	14.990700	2.444910	34.158646	1.418580	0.023312	0.244065	0.035440	0.002601	0.001585	0.096123	0.000451	0.009371	0.005238	0.001467	0.014672
14-Nov-2023	0.555513	9.697960	15.068700	2.457600	34.336203	1.425970	0.023433	0.245330	0.035622	0.002614	0.001593	0.096626	0.000454	0.009419	0.005265	0.001475	0.014748
15-Nov-2023	0.555444	9.749920	15.149400	2.470760	34.520140	1.433610	0.023558	0.246642	0.035811	0.002629	0.001601	0.097147	0.000456	0.009470	0.005293	0.001483	0.014827
16-Nov-2023	0.555761	9.791550	15.214100	2.481330	34.667617	1.439730	0.023659	0.247696	0.035964	0.002640	0.001608	0.097567	0.000458	0.009510	0.005316	0.001489	0.014890
17-Nov-2023	0.555934	9.829300	15.272800	2.490870	34.801165	1.445290	0.023750	0.248648	0.036102	0.002650	0.001614	0.097939	0.000460	0.009547	0.005337	0.001495	0.014947
18-Nov-2023	0.555278	9.864920	15.328500	2.499790	34.926840	1.450560	0.023835	0.249538	0.036230	0.002660	0.001620	0.098285	0.000461	0.009581	0.005356	0.001500	0.015002
19-Nov-2023	0.553655	9.897170	15.379100	2.507780	35.040272	1.455360	0.023912	0.250332	0.036344	0.002668	0.001625	0.098592	0.000463	0.009612	0.005374	0.001505	0.015050
20-Nov-2023	0.551114	9.930350	15.431500	2.515890	35.156519	1.460330	0.023989	0.251137	0.036456	0.002677	0.001630	0.098900	0.000465	0.009643	0.005392	0.001510	0.015101
21-Nov-2023	0.549223	9.980610	15.510400	2.528350	35.333328	1.467810	0.024108	0.252377	0.036632	0.002691	0.001638	0.099381	0.000467	0.009691	0.005419	0.001518	0.015177
22-Nov-2023	0.548385	10.027600	15.583600	2.540130	35.499173	1.474750	0.024221	0.253550	0.036801	0.002704	0.001645	0.099843	0.000469	0.009737	0.005445	0.001525	0.015248
23-Nov-2023	0.547872	10.075400	15.658000	2.552290	35.668604	1.481790	0.024336	0.254762	0.036976	0.002717	0.001653	0.100326	0.000471	0.009783	0.005471	0.001532	0.015321
24-Nov-2023	0.546735	10.052900	15.622900	2.546570	35.588867	1.478470	0.024282	0.254191	0.036893	0.002711	0.001650	0.100101	0.000470	0.009761	0.005459	0.001529	0.015287
25-Nov-2023	0.545720	10.091000	15.682600	2.556050	35.723041	1.484130	0.024372	0.255136	0.037028	0.002721	0.001656	0.100467	0.000472	0.009798	0.005479	0.001534	0.015344
26-Nov-2023	0.545005	10.143200	15.763800	2.569240	35.907701	1.491820	0.024498	0.256451	0.037218	0.002735	0.001664	0.100986	0.000475	0.009848	0.005508	0.001542	0.015424
27-Nov-2023	0.544283	10.160400	15.790500	2.573600	35.968604	1.494350	0.024540	0.256885	0.037280	0.002740	0.001667	0.101164	0.000475	0.009865	0.005517	0.001545	0.015450
28-Nov-2023	0.543186	10.196000	15.845400	2.582750	36.095177	1.499540	0.024627	0.257798	0.037412	0.002750	0.001673	0.101535	0.000477	0.009900	0.005536	0.001550	0.015504
29-Nov-2023	0.542678	10.234100	15.904000	2.592610	36.230916	1.505080	0.024721	0.258784	0.037556	0.002760	0.001679	0.101938	0.000479	0.009938	0.005557	0.001556	0.015562
30-Nov-2023	0.542482	10.276500	15.969200	2.603580	36.381963	1.511250	0.024825	0.259879	0.037716	0.002772	0.001687	0.102385	0.000481	0.009979	0.005580	0.001563	0.015626
1-Dec-2023	0.542198	10.319900	16.036100	2.614720	36.536207	1.517580	0.024931	0.260992	0.037878	0.002784	0.001694	0.102835	0.000483	0.010022	0.005603	0.001569	0.015692
2-Dec-2023	0.542006	10.361300	16.100100	2.625310	36.683193	1.523630	0.025032	0.262049	0.038032	0.002795	0.001701	0.103261	0.000485	0.010063	0.005626	0.001575	0.015755
3-Dec-2023	0.541983	10.404800	16.167500	2.636410	36.837522	1.530010	0.025138	0.263157	0.038193	0.002807	0.001708	0.103705	0.000487	0.010105	0.005649	0.001582	0.015821
4-Dec-2023	0.541762	10.448300	16.235100	2.647460	36.991645	1.536410	0.025243	0.264259	0.038352	0.002819	0.001715	0.104142	0.000489	0.010147	0.005673	0.001589	0.015887
5-Dec-2023	0.541739	10.490100	16.299900	2.658040	37.139588	1.542540	0.025344	0.265315	0.038505	0.002830	0.001722	0.104560	0.000491	0.010188	0.005696	0.001595	0.015951
6-Dec-2023	0.541746	10.558400	16.405900	2.675390	37.381581	1.552570	0.025509	0.267047	0.038757	0.002848	0.001733	0.105247	0.000494	0.010254	0.005733	0.001605	0.016054
7-Dec-2023	0.541379	10.626700	16.511900	2.692740	37.623573	1.562600	0.025674	0.268778	0.039008	0.002867	0.001745	0.105934	0.000497	0.010321	0.005770	0.001616	0.016158
8-Dec-2023	0.541225	10.694800	16.617600	2.710040	37.864860	1.572610	0.025839	0.270505	0.039258	0.002885	0.001756	0.106619	0.000500	0.010387	0.005807	0.001626	0.016262
9-Dec-2023	0.541202	10.767200	16.730000	2.728420	38.121332	1.583240	0.026015	0.272340	0.039524	0.002905	0.001768	0.107346	0.000504	0.010457	0.005846	0.001637	0.016372
10-Dec-2023	0.541152	10.824100	16.818200	2.742880	38.322958	1.591590	0.026152	0.273782	0.039733	0.002920	0.001777	0.107919	0.000506	0.010513	0.005877	0.001646	0.016458
11-Dec-2023	0.540736	10.552400	16.395500	2.674190	37.361657	1.551600	0.025497	0.266924	0.038737	0.002847	0.001733	0.105235	0.000494	0.010249	0.005729	0.001604	0.016045
12-Dec-2023	0.540697	10.440600	16.217200	2.647270	36.971636	1.534710	0.025238	0.264232	0.038345	0.002819	0.001716	0.104312	0.000488	0.010145	0.005668	0.001587	0.015873
13-Dec-2023	0.540468	10.542700	16.373000	2.674060	37.336901	1.549440	0.025493	0.266906	0.038734	0.002848	0.001734	0.105446	0.000493	0.010246	0.005723	0.001603	0.016028
14-Dec-2023	0.540049	10.506100	16.319100	2.663830	37.203384	1.544350	0.025396	0.265884	0.038584	0.002837	0.001727	0.104963	0.000491	0.010208	0.005703	0.001597	0.015973
15-Dec-2023	0.540059	10.534800	16.364300	2.670950	37.304368	1.548640	0.025464	0.266595	0.038687	0.002844	0.001732	0.105228	0.000493	0.010236	0.005719	0.001602	0.016017
16-Dec-2023	0.540075	10.605600	16.471500	2.689720	37.558450	1.558770	0.025642	0.268468	0.038960	0.002864	0.001744	0.106040	0.000496	0.010307	0.005757	0.001612	0.016124
17-Dec-2023	0.539716	10.645300	16.534500	2.699380	37.697361	1.564740	0.025735	0.269433	0.039100	0.002875	0.001750	0.106386	0.000498	0.010344	0.005779	0.001618	0.016184
18-Dec-2023	0.539689	10.690900	16.606000	2.710760	37.858087	1.571510	0.025844	0.270569	0.039264	0.002887	0.001757	0.106818	0.000500	0.010388	0.005804	0.001625	0.016254
19-Dec-2023	0.539675	10.777800	16.739800	2.733150	38.167278	1.584160	0.026057	0.272803	0.039589	0.002911	0.001772	0.107731	0.000504	0.010473	0.005851	0.001639	0.016386
20-Dec-2023	0.539257	10.844700	16.843700	2.750090	38.404087	1.593990	0.026218	0.274494	0.039834	0.002929	0.001783	0.108398	0.000507	0.010538	0.005887	0.001649	0.016487
21-Dec-2023	0.539223	10.882200	16.903000	2.759280	38.535568	1.599610	0.026306	0.275411	0.039967	0.002938	0.001789	0.108732	0.000509	0.010574	0.005908	0.001654	0.016545
22-Dec-2023	0.539282	10.970000	17.038500	2.781820	38.847625	1.612430	0.026521	0.277661	0.040294	0.002962	0.001804	0.109645	0.000513	0.010660	0.005955	0.001668	0.016678
23-Dec-2023	0.538861	11.039900	17.146800	2.799600	39.095383	1.622680	0.026690	0.279436	0.040551	0.002981	0.001815	0.110351	0.000516	0.010728	0.005993	0.001678	0.016784
24-Dec-2023	0.538828	11.062300	17.182900	2.804900	39.173141	1.626100	0.026741	0.279964	0.040627	0.002987	0.001818	0.110526	0.000517	0.010749	0.006005	0.001682	0.016818
25-Dec-2023	0.538848	11.148700	17.316400	2.827040	39.480055	1.638730	0.026952	0.282174	0.040948	0.003011	0.001833	0.111419	0.000521	0.010833	0.006052	0.001695	0.016950

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
26-Dec-2023	0.538491	11.213800	17.417400	2.843600	39.710803	1.648290	0.027110	0.283827	0.041188	0.003028	0.001844	0.112076	0.000524	0.010897	0.006088	0.001705	0.017049
27-Dec-2023	0.538377	11.228300	17.440900	2.846910	39.760640	1.650520	0.027142	0.284158	0.041236	0.003032	0.001846	0.112177	0.000525	0.010910	0.006096	0.001707	0.017071
28-Dec-2023	0.538383	11.300700	17.553100	2.865420	40.017647	1.661130	0.027318	0.286004	0.041504	0.003051	0.001858	0.112918	0.000528	0.010981	0.006135	0.001718	0.017181
29-Dec-2023	0.538200	11.361800	17.647600	2.881020	40.234455	1.670080	0.027467	0.287562	0.041730	0.003068	0.001868	0.113542	0.000531	0.011040	0.006168	0.001727	0.017274
30-Dec-2023	0.537830	11.390100	17.692000	2.888010	40.333905	1.674280	0.027533	0.288259	0.041831	0.003076	0.001872	0.113804	0.000532	0.011067	0.006183	0.001732	0.017317
31-Dec-2023	0.537880	11.441700	17.772300	2.901070	40.516531	1.681880	0.027658	0.289563	0.042020	0.003089	0.001881	0.114316	0.000535	0.011117	0.006211	0.001740	0.017395
1-Jan-2024	0.537787	11.510900	17.879200	2.918800	40.762336	1.692000	0.027827	0.291332	0.042277	0.003108	0.001892	0.115031	0.000538	0.011185	0.006249	0.001750	0.017500
2-Jan-2024	0.537310	11.540400	17.925300	2.926160	40.866306	1.696360	0.027897	0.292066	0.042383	0.003116	0.001897	0.115311	0.000540	0.011213	0.006265	0.001755	0.017545
3-Jan-2024	0.537324	11.572700	17.976000	2.934220	40.980150	1.701160	0.027974	0.292871	0.042500	0.003125	0.001902	0.115617	0.000541	0.011244	0.006283	0.001759	0.017594
4-Jan-2024	0.537253	11.642900	18.084500	2.952190	41.229440	1.711430	0.028145	0.294664	0.042760	0.003144	0.001914	0.116340	0.000544	0.011313	0.006321	0.001770	0.017701
5-Jan-2024	0.536892	11.689000	18.156000	2.963920	41.392856	1.718190	0.028257	0.295835	0.042930	0.003156	0.001922	0.116806	0.000546	0.011358	0.006346	0.001777	0.017771
6-Jan-2024	0.536860	11.702400	18.177600	2.967040	41.439164	1.720240	0.028287	0.296146	0.042974	0.003160	0.001923	0.116906	0.000547	0.011370	0.006353	0.001779	0.017792
7-Jan-2024	0.536834	11.777000	18.292900	2.986120	41.704011	1.731150	0.028469	0.298051	0.043251	0.003180	0.001936	0.117673	0.000551	0.011443	0.006393	0.001790	0.017905
8-Jan-2024	0.536566	11.822600	18.363500	2.997770	41.865849	1.737830	0.028580	0.299213	0.043420	0.003192	0.001944	0.118140	0.000553	0.011488	0.006418	0.001797	0.017974
9-Jan-2024	0.536371	11.834700	18.383200	3.000580	41.907634	1.739700	0.028607	0.299494	0.043460	0.003195	0.001945	0.118228	0.000553	0.011499	0.006425	0.001799	0.017993
10-Jan-2024	0.536363	11.900300	18.484800	3.017290	42.140249	1.749310	0.028766	0.301161	0.043702	0.003213	0.001956	0.118893	0.000556	0.011563	0.006460	0.001809	0.018092
11-Jan-2024	0.536281	11.959500	18.576200	3.032500	42.350707	1.757960	0.028911	0.302679	0.043922	0.003229	0.001966	0.119510	0.000559	0.011621	0.006492	0.001818	0.018182
12-Jan-2024	0.535939	12.000400	18.639800	3.042830	42.495373	1.763980	0.029009	0.303710	0.044072	0.003240	0.001973	0.119914	0.000561	0.011660	0.006515	0.001824	0.018244
13-Jan-2024	0.535965	12.041100	18.703400	3.053010	42.638922	1.770000	0.029106	0.304726	0.044219	0.003251	0.001979	0.120304	0.000563	0.011700	0.006537	0.001831	0.018306
14-Jan-2024	0.535928	12.099700	18.793800	3.068050	42.847181	1.778550	0.029250	0.306227	0.044437	0.003267	0.001989	0.120913	0.000566	0.011757	0.006568	0.001840	0.018395
15-Jan-2024	0.535652	12.142500	18.860200	3.078980	42.999062	1.784830	0.029354	0.307318	0.044596	0.003279	0.001996	0.121349	0.000568	0.011799	0.006592	0.001846	0.018460
16-Jan-2024	0.535526	12.163200	18.893100	3.083990	43.071381	1.787950	0.029402	0.307818	0.044668	0.003284	0.001999	0.121527	0.000569	0.011818	0.006603	0.001849	0.018492
17-Jan-2024	0.535492	12.227900	18.993300	3.100470	43.300802	1.797440	0.029559	0.309463	0.044906	0.003302	0.002010	0.122183	0.000572	0.011881	0.006638	0.001859	0.018590
18-Jan-2024	0.535408	12.286000	19.082900	3.115390	43.507318	1.805910	0.029701	0.310951	0.045123	0.003318	0.002020	0.122788	0.000574	0.011938	0.006670	0.001868	0.018678
19-Jan-2024	0.535138	12.330800	19.152500	3.126730	43.665882	1.812490	0.029809	0.312083	0.045287	0.003330	0.002027	0.123234	0.000576	0.011982	0.006694	0.001875	0.018747
20-Jan-2024	0.535114	12.374900	19.221600	3.137750	43.821380	1.819030	0.029914	0.313183	0.045446	0.003342	0.002034	0.123654	0.000579	0.012024	0.006718	0.001881	0.018814
21-Jan-2024	0.535089	12.439100	19.320700	3.154220	44.049511	1.828410	0.030071	0.314826	0.045685	0.003359	0.002045	0.124319	0.000582	0.012087	0.006753	0.001891	0.018911
22-Jan-2024	0.534953	12.480400	19.384900	3.164660	44.195629	1.834490	0.030170	0.315868	0.045836	0.003370	0.002052	0.124728	0.000583	0.012127	0.006775	0.001897	0.018974
23-Jan-2024	0.534788	12.521400	19.448900	3.174930	44.340298	1.840550	0.030269	0.316894	0.045985	0.003381	0.002058	0.125123	0.000585	0.012167	0.006797	0.001904	0.019036
24-Jan-2024	0.534668	12.568400	19.522300	3.186730	44.506249	1.847500	0.030381	0.318072	0.046155	0.003394	0.002066	0.125578	0.000588	0.012212	0.006823	0.001911	0.019108
25-Jan-2024	0.534583	12.592700	19.560700	3.192700	44.591511	1.851130	0.030438	0.318667	0.046241	0.003400	0.002070	0.125796	0.000589	0.012235	0.006836	0.001914	0.019145
26-Jan-2024	0.534367	12.640400	19.635200	3.204710	44.760075	1.858180	0.030553	0.319866	0.046415	0.003413	0.002077	0.126261	0.000591	0.012281	0.006862	0.001922	0.019218
27-Jan-2024	0.534276	12.703200	19.732800	3.220570	44.982198	1.867420	0.030704	0.321450	0.046645	0.003430	0.002088	0.126883	0.000594	0.012342	0.006896	0.001931	0.019313
28-Jan-2024	0.534211	12.760000	19.821300	3.234950	45.183244	1.875800	0.030842	0.322885	0.046853	0.003445	0.002097	0.127445	0.000597	0.012397	0.006927	0.001940	0.019400
29-Jan-2024	0.534180	12.818100	19.911600	3.249620	45.388731	1.884340	0.030981	0.324349	0.047065	0.003461	0.002106	0.128019	0.000599	0.012453	0.006959	0.001949	0.019488
30-Jan-2024	0.534076	12.900800	20.040200	3.270570	45.681505	1.896520	0.031181	0.326440	0.047369	0.003483	0.002120	0.128842	0.000603	0.012534	0.007004	0.001961	0.019614
31-Jan-2024	0.534011	12.972700	20.152000	3.288760	45.935946	1.907090	0.031355	0.328255	0.047632	0.003503	0.002132	0.129556	0.000607	0.012603	0.007043	0.001972	0.019723
1-Feb-2024	0.533959	13.046600	20.266800	3.307450	46.197439	1.917960	0.031533	0.330122	0.047903	0.003522	0.002144	0.130290	0.000610	0.012675	0.007083	0.001984	0.019835
2-Feb-2024	0.533912	13.179600	20.474200	3.340930	46.667411	1.937590	0.031853	0.333465	0.048389	0.003558	0.002165	0.131583	0.000616	0.012804	0.007155	0.002004	0.020038
3-Feb-2024	0.533862	13.310100	20.677100	3.374020	47.129534	1.956790	0.032168	0.336768	0.048868	0.003593	0.002187	0.132886	0.000622	0.012931	0.007226	0.002024	0.020236
4-Feb-2024	0.533820	13.428100	20.860300	3.403910	47.547267	1.974130	0.032453	0.339752	0.049301	0.003625	0.002206	0.134063	0.000628	0.013045	0.007290	0.002042	0.020416
5-Feb-2024	0.533786	13.541200	21.036000	3.432580	47.947741	1.990750	0.032726	0.342613	0.049716	0.003656	0.002225	0.135192	0.000633	0.013155	0.007352	0.002059	0.020588
6-Feb-2024	0.533747	13.645100	21.197500	3.458930	48.315688	2.006040	0.032978	0.345243	0.050098	0.003684	0.002242	0.136230	0.000638	0.013256	0.007408	0.002075	0.020746
7-Feb-2024	0.533699	13.723600	21.319500	3.478810	48.593569	2.017580	0.033167	0.347227	0.050386	0.003705	0.002255	0.137012	0.000642	0.013332	0.007451	0.002087	0.020865
8-Feb-2024	0.533654	13.785800	21.416100	3.494540	48.813658	2.026720	0.033317	0.348797	0.050613	0.003722	0.002265	0.137630	0.000645	0.013392	0.007484	0.002096	0.020959
9-Feb-2024	0.533598	13.836800	21.495400	3.507470	48.994251	2.034240	0.033440	0.350087	0.050800	0.003735	0.002273	0.138139	0.000647	0.013442	0.007512	0.002104	0.021037
10-Feb-2024	0.533534	13.895000	21.585900	3.522210	49.200276	2.042800	0.033581	0.351558	0.051014	0.003751	0.002283	0.138718	0.000650	0.013499	0.007544	0.002113	0.021126
11-Feb-2024	0.533470	14.006900	21.759700	3.550560	49.596435	2.059250	0.033851	0.354388	0.051424	0.003781	0.002301	0.139835	0.000655	0.013607	0.007604	0.002130	0.021296
12-Feb-2024	0.533420	14.129400	21.950000	3.581640	50.030305	2.077260	0.034147	0.357490	0.051874	0.003814	0.002321	0.141060	0.000661	0.013726	0.007671	0.002148	0.021482
13-Feb-2024	0.533365	14.239400	22.120900	3.609500	50.419703	2.093430	0.034413	0.360270	0.052278	0.003844	0.002339	0.142156	0.000666	0.013833	0.007731	0.002165	0.021649
14-Feb-2024	0.533332	14.365800	22.317200	3.641520	50.867182	2.112010	0.034718	0.363467	0.052742	0.003878	0.002360	0.143417	0.000672	0.013956	0.007799	0.002184	0.021841
15-Feb-2024	0.533296	14.549700	22.603000	3.688160	51.518444	2.139060	0.035163	0.368121	0.053417	0.003928	0.002390	0.145254	0.000680	0.014134	0.007899	0.002212	0.022121

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16-Feb-2024	0.533258	14.767300	22.941000	3.743280	52.288775	2.171040	0.035689	0.373624	0.054215	0.003987	0.002426	0.147424	0.000691	0.014346	0.008017	0.002245	0.022452
17-Feb-2024	0.533257	14.918200	23.175500	3.781540	52.823127	2.193230	0.036053	0.377442	0.054769	0.004027	0.002451	0.148930	0.000698	0.014492	0.008099	0.002268	0.022681
18-Feb-2024	0.533267	15.012700	23.322300	3.805480	53.157679	2.207120	0.036282	0.379832	0.055116	0.004053	0.002466	0.149873	0.000702	0.014584	0.008150	0.002282	0.022825
19-Feb-2024	0.533261	14.886000	23.125400	3.773360	52.709038	2.188490	0.035975	0.376626	0.054651	0.004019	0.002446	0.148608	0.000696	0.014461	0.008082	0.002263	0.022632
20-Feb-2024	0.533245	14.965900	23.249700	3.793610	52.991938	2.200260	0.036169	0.378647	0.054944	0.004040	0.002459	0.149404	0.000700	0.014539	0.008125	0.002275	0.022754
21-Feb-2024	0.533206	14.570800	22.635600	3.693520	51.593203	2.142140	0.035214	0.368656	0.053494	0.003934	0.002394	0.145471	0.000681	0.014155	0.007911	0.002215	0.022153
22-Feb-2024	0.533173	14.666000	22.783600	3.717660	51.930326	2.156150	0.035444	0.371065	0.053843	0.003959	0.002410	0.146420	0.000686	0.014248	0.007962	0.002230	0.022298
23-Feb-2024	0.533152	14.761900	22.932500	3.741930	52.269732	2.170240	0.035676	0.373488	0.054195	0.003985	0.002425	0.147375	0.000690	0.014341	0.008014	0.002244	0.022443
24-Feb-2024	0.533120	14.866400	23.094900	3.768420	52.639754	2.185610	0.035928	0.376131	0.054578	0.004013	0.002442	0.148417	0.000695	0.014442	0.008071	0.002260	0.022602
25-Feb-2024	0.533106	14.981300	23.273400	3.797540	53.046576	2.202500	0.036206	0.379038	0.055000	0.004044	0.002461	0.149564	0.000701	0.014554	0.008133	0.002278	0.022777
26-Feb-2024	0.533082	15.096200	23.452000	3.826670	53.453438	2.219400	0.036484	0.381946	0.055422	0.004075	0.002480	0.150711	0.000706	0.014665	0.008196	0.002295	0.022952
27-Feb-2024	0.533040	15.216700	23.639200	3.857210	53.880091	2.237120	0.036775	0.384994	0.055864	0.004108	0.002500	0.151914	0.000712	0.014782	0.008261	0.002313	0.023135
28-Feb-2024	0.533015	15.314500	23.791100	3.881990	54.226341	2.251490	0.037011	0.387467	0.056223	0.004134	0.002516	0.152889	0.000716	0.014877	0.008314	0.002328	0.023284
29-Feb-2024	0.533006	15.437300	23.981900	3.913130	54.661207	2.269550	0.037308	0.390575	0.056674	0.004168	0.002536	0.154115	0.000722	0.014997	0.008381	0.002347	0.023470
1-Mar-2024	0.533002	15.577600	24.199900	3.948690	55.157973	2.290180	0.037647	0.394125	0.057189	0.004205	0.002559	0.155516	0.000728	0.015133	0.008457	0.002368	0.023684
2-Mar-2024	0.532986	15.734100	24.442900	3.988340	55.712032	2.313180	0.038025	0.398082	0.057764	0.004248	0.002585	0.157077	0.000736	0.015285	0.008542	0.002392	0.023922
3-Mar-2024	0.532962	15.895400	24.693600	4.029250	56.283265	2.336910	0.038415	0.402165	0.058356	0.004291	0.002611	0.158688	0.000743	0.015442	0.008630	0.002417	0.024167
4-Mar-2024	0.532940	16.050700	24.934800	4.068600	56.833093	2.359730	0.038790	0.406093	0.058926	0.004333	0.002637	0.160238	0.000751	0.015593	0.008714	0.002440	0.024403
5-Mar-2024	0.532936	16.201400	25.168900	4.106790	57.366657	2.381890	0.039154	0.409905	0.059479	0.004374	0.002662	0.161741	0.000758	0.015739	0.008796	0.002463	0.024632
6-Mar-2024	0.532938	16.368000	25.427800	4.149030	57.956602	2.406390	0.039557	0.414121	0.060091	0.004419	0.002689	0.163405	0.000765	0.015901	0.008886	0.002489	0.024885
7-Mar-2024	0.532929	16.564300	25.732700	4.198770	58.651592	2.435230	0.040031	0.419086	0.060811	0.004472	0.002721	0.165364	0.000775	0.016091	0.008993	0.002518	0.025184
8-Mar-2024	0.532914	16.759600	26.036200	4.248290	59.343179	2.463960	0.040503	0.424028	0.061528	0.004524	0.002753	0.167314	0.000784	0.016281	0.009099	0.002548	0.025481
9-Mar-2024	0.532900	16.949300	26.330900	4.296380	60.014895	2.491850	0.040962	0.428827	0.062225	0.004576	0.002785	0.169208	0.000793	0.016465	0.009202	0.002577	0.025769
10-Mar-2024	0.532891	17.151100	26.644400	4.347530	60.729425	2.521510	0.041450	0.433933	0.062966	0.004630	0.002818	0.171222	0.000802	0.016662	0.009311	0.002608	0.026076
11-Mar-2024	0.532877	14.662500	22.778700	3.716550	51.917015	2.155680	0.035434	0.370955	0.053827	0.003958	0.002409	0.146360	0.000686	0.014244	0.007960	0.002229	0.022292
12-Mar-2024	0.532872	14.722700	22.872400	3.731820	52.130217	2.164550	0.035580	0.372479	0.054048	0.003974	0.002419	0.146961	0.000688	0.014302	0.007993	0.002238	0.022384
13-Mar-2024	0.532870	14.793600	22.982400	3.749770	52.381172	2.174970	0.035751	0.374270	0.054308	0.003994	0.002430	0.147667	0.000692	0.014371	0.008032	0.002249	0.022492
14-Mar-2024	0.532869	14.858300	23.082900	3.766170	52.610263	2.184480	0.035907	0.375907	0.054545	0.004011	0.002441	0.148312	0.000695	0.014434	0.008067	0.002259	0.022590
15-Mar-2024	0.532870	14.940800	23.211100	3.787070	52.902332	2.196610	0.036106	0.377993	0.054848	0.004033	0.002454	0.149136	0.000699	0.014514	0.008112	0.002272	0.022716
16-Mar-2024	0.532870	15.039400	23.364400	3.812090	53.251568	2.211120	0.036345	0.380490	0.055210	0.004060	0.002471	0.150121	0.000703	0.014610	0.008165	0.002287	0.022866
17-Mar-2024	0.532870	15.137600	23.516900	3.836960	53.599188	2.225550	0.036582	0.382973	0.055571	0.004086	0.002487	0.151100	0.000708	0.014705	0.008218	0.002301	0.023015
18-Mar-2024	0.532871	15.246400	23.685900	3.864540	53.984437	2.241540	0.036845	0.385726	0.055970	0.004116	0.002505	0.152186	0.000713	0.014811	0.008277	0.002318	0.023180
19-Mar-2024	0.532871	15.280600	23.739100	3.873220	54.105578	2.246570	0.036928	0.386591	0.056096	0.004125	0.002510	0.152528	0.000715	0.014844	0.008296	0.002323	0.023232
20-Mar-2024	0.532871	15.366000	23.871800	3.894870	54.407977	2.259130	0.037134	0.388753	0.056409	0.004148	0.002524	0.153381	0.000719	0.014927	0.008342	0.002336	0.023362
21-Mar-2024	0.532871	15.441100	23.988400	3.913890	54.673826	2.270160	0.037315	0.390651	0.056685	0.004168	0.002537	0.154130	0.000722	0.015000	0.008383	0.002348	0.023476
22-Mar-2024	0.532870	15.503700	24.085600	3.929750	54.895449	2.279370	0.037467	0.392234	0.056915	0.004185	0.002547	0.154754	0.000725	0.015061	0.008417	0.002357	0.023571
23-Mar-2024	0.532869	15.364200	23.869000	3.894400	54.401547	2.258870	0.037130	0.388706	0.056403	0.004148	0.002524	0.153362	0.000718	0.014925	0.008341	0.002336	0.023359
24-Mar-2024	0.532867	15.526000	24.120400	3.935410	54.974440	2.282660	0.037521	0.392799	0.056997	0.004191	0.002551	0.154977	0.000726	0.015082	0.008429	0.002361	0.023605
25-Mar-2024	0.532866	15.682700	24.363700	3.975110	55.529205	2.305680	0.037899	0.396762	0.057572	0.004234	0.002576	0.156540	0.000733	0.015234	0.008514	0.002384	0.023844
26-Mar-2024	0.532865	15.833000	24.597200	4.013210	56.061400	2.327780	0.038262	0.400564	0.058123	0.004274	0.002601	0.158040	0.000740	0.015380	0.008596	0.002407	0.024072
27-Mar-2024	0.532864	15.974800	24.817500	4.049160	56.563516	2.348630	0.038605	0.404152	0.058644	0.004312	0.002624	0.159456	0.000747	0.015518	0.008673	0.002429	0.024288
28-Mar-2024	0.532864	16.099900	25.012000	4.080880	57.006514	2.367040	0.038908	0.407319	0.059103	0.004346	0.002645	0.160705	0.000753	0.015640	0.008741	0.002448	0.024478
29-Mar-2024	0.532863	16.212400	25.186700	4.109380	57.404790	2.383570	0.039179	0.410164	0.059516	0.004377	0.002663	0.161827	0.000758	0.015749	0.008802	0.002465	0.024649
30-Mar-2024	0.532863	16.319100	25.352400	4.136420	57.782570	2.399250	0.039437	0.412862	0.059908	0.004405	0.002681	0.162892	0.000763	0.015853	0.008860	0.002481	0.024811
31-Mar-2024	0.532862	16.424800	25.516600	4.163210	58.156824	2.414790	0.039693	0.415536	0.060296	0.004434	0.002698	0.163947	0.000768	0.015955	0.008917	0.002497	0.024972
1-Apr-2024	0.532861	16.511000	25.650500	4.185060	58.462044	2.427460	0.039901	0.417717	0.060612	0.004457	0.002712	0.164807	0.000772	0.016039	0.008964	0.002510	0.025103
2-Apr-2024	0.532861	16.452300	25.559400	4.170190	58.254236	2.418840	0.039759	0.416233	0.060397	0.004441	0.002703	0.164222	0.000769	0.015982	0.008932	0.002501	0.025014
3-Apr-2024	0.532861	16.418300	25.506500	4.161560	58.133799	2.413840	0.039677	0.415372	0.060272	0.004432	0.002697	0.163882	0.000768	0.015949	0.008914	0.002496	0.024962
4-Apr-2024	0.532861	16.406600	25.488500	4.158620	58.092477	2.412130	0.039649	0.415078	0.060229	0.004429	0.002695	0.163766	0.000767	0.015938	0.008907	0.002494	0.024944
5-Apr-2024	0.532860	16.395700	25.471500	4.155850	58.053853	2.410520	0.039622	0.414802	0.060189	0.004426	0.002693	0.163657	0.000767	0.015927	0.008901	0.002493	0.024928
6-Apr-2024	0.532861	16.384100	25.453400	4.152890	58.012699	2.408810	0.039594	0.414506	0.060146	0.004423	0.002691	0.163541	0.000766	0.015916	0.008895	0.002491	0.024910
7-Apr-2024	0.532861	16.373700	25.437300	4.150270	57.975941	2.407280	0.039569	0.414244	0.060108	0.004420	0.002690	0.163437	0.000766	0.015906	0.008889	0.002489	0.024894

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Apr-2024	0.532861	16.358100	25.413000	4.146300	57.920639	2.404980	0.039531	0.413849	0.060051	0.004416	0.002687	0.163281	0.000765	0.015891	0.008881	0.002487	0.024870
9-Apr-2024	0.532861	16.344000	25.391200	4.142750	57.870813	2.402920	0.039497	0.413494	0.059999	0.004412	0.002685	0.163141	0.000764	0.015877	0.008873	0.002485	0.024849
10-Apr-2024	0.532861	16.333500	25.374800	4.140080	57.833599	2.401370	0.039472	0.413227	0.059961	0.004409	0.002683	0.163036	0.000764	0.015867	0.008868	0.002483	0.024833
11-Apr-2024	0.532861	16.320800	25.355100	4.136850	57.788586	2.399500	0.039441	0.412905	0.059914	0.004406	0.002681	0.162909	0.000763	0.015854	0.008861	0.002481	0.024814
12-Apr-2024	0.532861	16.307100	25.333700	4.133380	57.740088	2.397490	0.039408	0.412558	0.059864	0.004402	0.002679	0.162772	0.000763	0.015841	0.008853	0.002479	0.024793
13-Apr-2024	0.532861	16.296100	25.316800	4.130610	57.701214	2.395880	0.039382	0.412282	0.059824	0.004399	0.002677	0.162663	0.000762	0.015830	0.008847	0.002478	0.024776
14-Apr-2024	0.532861	16.288100	25.304300	4.128570	57.672837	2.394700	0.039362	0.412078	0.059794	0.004397	0.002676	0.162583	0.000762	0.015823	0.008843	0.002476	0.024764
15-Apr-2024	0.532861	16.277800	25.288300	4.125960	57.636370	2.393190	0.039337	0.411818	0.059756	0.004394	0.002674	0.162480	0.000761	0.015813	0.008837	0.002475	0.024748
16-Apr-2024	0.532861	16.267800	25.272700	4.123420	57.600940	2.391710	0.039313	0.411565	0.059719	0.004392	0.002672	0.162380	0.000761	0.015803	0.008832	0.002473	0.024733
17-Apr-2024	0.532861	16.260100	25.260900	4.121480	57.573724	2.390590	0.039295	0.411371	0.059691	0.004389	0.002671	0.162304	0.000760	0.015795	0.008828	0.002472	0.024721
18-Apr-2024	0.532861	16.253100	25.249900	4.119700	57.548915	2.389550	0.039278	0.411194	0.059666	0.004388	0.002670	0.162234	0.000760	0.015789	0.008824	0.002471	0.024711
19-Apr-2024	0.532861	16.246300	25.239400	4.117980	57.524853	2.388560	0.039261	0.411022	0.059641	0.004386	0.002669	0.162166	0.000760	0.015782	0.008820	0.002470	0.024701
20-Apr-2024	0.532861	16.240000	25.229500	4.116370	57.502492	2.387620	0.039246	0.410861	0.059617	0.004384	0.002668	0.162102	0.000759	0.015776	0.008817	0.002469	0.024691
21-Apr-2024	0.532861	16.233600	25.219600	4.114750	57.479840	2.386680	0.039231	0.410699	0.059594	0.004382	0.002667	0.162038	0.000759	0.015770	0.008813	0.002468	0.024681
22-Apr-2024	0.532861	16.227500	25.210100	4.113200	57.458225	2.385780	0.039216	0.410544	0.059571	0.004381	0.002666	0.161977	0.000759	0.015764	0.008810	0.002467	0.024672
23-Apr-2024	0.532861	16.221700	25.201200	4.111750	57.437771	2.384940	0.039202	0.410399	0.059550	0.004379	0.002665	0.161920	0.000759	0.015758	0.008807	0.002466	0.024663
24-Apr-2024	0.532861	16.216000	25.192300	4.110300	57.417567	2.384100	0.039188	0.410256	0.059529	0.004378	0.002664	0.161863	0.000758	0.015753	0.008804	0.002465	0.024654
25-Apr-2024	0.532860	16.210200	25.183200	4.108820	57.396990	2.383240	0.039174	0.410107	0.059508	0.004376	0.002663	0.161805	0.000758	0.015747	0.008801	0.002465	0.024646
26-Apr-2024	0.532860	16.204100	25.173700	4.107270	57.375376	2.382340	0.039159	0.409953	0.059486	0.004374	0.002662	0.161744	0.000758	0.015741	0.008797	0.002464	0.024636
27-Apr-2024	0.532860	16.197400	25.163400	4.105590	57.351727	2.381370	0.039143	0.409785	0.059461	0.004373	0.002661	0.161678	0.000757	0.015734	0.008794	0.002463	0.024626
28-Apr-2024	0.532860	16.190000	25.151900	4.103700	57.325467	2.380270	0.039125	0.409596	0.059434	0.004370	0.002660	0.161603	0.000757	0.015727	0.008790	0.002461	0.024615
29-Apr-2024	0.532859	16.179900	25.136200	4.101150	57.289746	2.378790	0.039101	0.409342	0.059397	0.004368	0.002658	0.161503	0.000757	0.015717	0.008784	0.002460	0.024600
30-Apr-2024	0.532846	16.154200	25.096300	4.094630	57.198724	2.375020	0.039039	0.408691	0.059303	0.004361	0.002654	0.161246	0.000755	0.015693	0.008770	0.002456	0.024560
1-May-2024	0.532771	16.053600	24.940100	4.069140	56.842558	2.360230	0.038796	0.406147	0.058933	0.004334	0.002637	0.160242	0.000751	0.015595	0.008716	0.002441	0.024408
2-May-2024	0.532458	15.762100	24.487100	3.995240	55.810362	2.317360	0.038091	0.398771	0.057863	0.004255	0.002589	0.157333	0.000737	0.015312	0.008557	0.002396	0.023964
3-May-2024	0.532126	15.510400	24.096100	3.931450	54.919180	2.280360	0.037483	0.392404	0.056939	0.004187	0.002548	0.154820	0.000725	0.015067	0.008421	0.002358	0.023582
4-May-2024	0.531752	15.441200	23.988600	3.913910	54.674158	2.270190	0.037316	0.390653	0.056685	0.004168	0.002537	0.154130	0.000722	0.015000	0.008383	0.002348	0.023476
5-May-2024	0.531433	15.422100	23.958900	3.909060	54.606493	2.267380	0.037269	0.390169	0.056615	0.004163	0.002533	0.153938	0.000721	0.014981	0.008373	0.002345	0.023447
6-May-2024	0.531029	15.386900	23.904300	3.900150	54.481907	2.262210	0.037184	0.389279	0.056486	0.004154	0.002528	0.153587	0.000720	0.014947	0.008354	0.002339	0.023394
7-May-2024	0.531568	15.341500	23.833700	3.888640	54.321145	2.255530	0.037075	0.388130	0.056319	0.004141	0.002520	0.153134	0.000717	0.014903	0.008329	0.002332	0.023325
8-May-2024	0.533552	15.300900	23.770700	3.878350	54.177393	2.249560	0.036977	0.387103	0.056170	0.004130	0.002514	0.152729	0.000716	0.014864	0.008307	0.002326	0.023263
9-May-2024	0.535948	15.259900	23.707000	3.867960	54.032230	2.243540	0.036878	0.386067	0.056020	0.004119	0.002507	0.152320	0.000714	0.014824	0.008285	0.002320	0.023201
10-May-2024	0.539418	15.212700	23.633700	3.856000	53.865120	2.236600	0.036764	0.384873	0.055846	0.004107	0.002499	0.151849	0.000711	0.014778	0.008259	0.002313	0.023129
11-May-2024	0.543054	15.128500	23.502800	3.834650	53.566953	2.224210	0.036560	0.382742	0.055537	0.004084	0.002485	0.151008	0.000707	0.014696	0.008213	0.002300	0.023001
12-May-2024	0.548272	15.048500	23.378500	3.814370	53.283680	2.212450	0.036367	0.380718	0.055244	0.004062	0.002472	0.150210	0.000704	0.014618	0.008170	0.002288	0.022879
13-May-2024	0.564099	14.950600	23.226400	3.789560	52.937056	2.198060	0.036130	0.378241	0.054884	0.004036	0.002456	0.149232	0.000699	0.014523	0.008117	0.002273	0.022731
14-May-2024	0.583992	14.844600	23.061800	3.762690	52.561724	2.182480	0.035874	0.375560	0.054495	0.004007	0.002439	0.148175	0.000694	0.014420	0.008059	0.002257	0.022569
15-May-2024	0.597512	14.726400	22.878100	3.732730	52.143203	2.165100	0.035588	0.372569	0.054061	0.003975	0.002419	0.146995	0.000689	0.014306	0.007995	0.002239	0.022390
16-May-2024	0.609076	14.611100	22.699000	3.703510	51.734971	2.148140	0.035310	0.369652	0.053638	0.003944	0.002400	0.145844	0.000683	0.014194	0.007933	0.002221	0.022214
17-May-2024	0.642957	14.488100	22.507800	3.672320	51.299399	2.130050	0.035012	0.366538	0.053186	0.003911	0.002380	0.144616	0.000678	0.014074	0.007866	0.002203	0.022027
18-May-2024	0.641529	14.360500	22.309600	3.639980	50.847606	2.111290	0.034704	0.363310	0.052718	0.003877	0.002359	0.143342	0.000672	0.013950	0.007796	0.002183	0.021833
19-May-2024	0.639145	14.221100	22.093200	3.604670	50.354118	2.090800	0.034367	0.359785	0.052207	0.003839	0.002336	0.141952	0.000665	0.013815	0.007721	0.002162	0.021621
20-May-2024	0.639608	13.854600	21.523600	3.511780	49.056446	2.036900	0.033481	0.350509	0.050862	0.003740	0.002276	0.138295	0.000648	0.013459	0.007522	0.002106	0.021064
21-May-2024	0.652858	13.521100	21.005400	3.427290	47.875767	1.987840	0.032675	0.342068	0.049640	0.003650	0.002221	0.134969	0.000632	0.013135	0.007341	0.002056	0.020557
22-May-2024	0.668486	13.324000	20.699300	3.377330	47.177873	1.958860	0.032199	0.337082	0.048916	0.003597	0.002189	0.133001	0.000623	0.012944	0.007234	0.002026	0.020257
23-May-2024	0.682339	12.985200	20.172700	3.291500	45.978441	1.909010	0.031379	0.328505	0.047675	0.003505	0.002133	0.129623	0.000607	0.012615	0.007050	0.001974	0.019742
24-May-2024	0.688132	12.658200	19.664500	3.208620	44.820623	1.860900	0.030589	0.320228	0.046475	0.003417	0.002080	0.126360	0.000592	0.012297	0.006872	0.001924	0.019245
25-May-2024	0.696838	12.362200	19.204700	3.133650	43.772784	1.817370	0.029873	0.312737	0.045391	0.003337	0.002031	0.123409	0.000578	0.012010	0.006712	0.001879	0.018795
26-May-2024	0.710615	12.110100	18.812800	3.069760	42.880191	1.780280	0.029264	0.306356	0.044466	0.003269	0.001990	0.120895	0.000566	0.011765	0.006575	0.001841	0.018411
27-May-2024	0.726760	11.838400	18.390600	3.000930	41.918315	1.740310	0.028607	0.299480	0.043470	0.003196	0.001945	0.118185	0.000554	0.011501	0.006427	0.001800	0.017998
28-May-2024	0.746461	11.745700	18.246700	2.977470	41.590234	1.726680	0.028383	0.297135	0.043131	0.003171	0.001930	0.117262	0.000549	0.011411	0.006377	0.001786	0.017857
29-May-2024	0.762182	11.612300	18.039100	2.943710	41.118111	1.707020	0.028061	0.293761	0.042642	0.003135	0.001908	0.115939	0.000543	0.011282	0.006304	0.001765	0.017654

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30-May-2024	0.777666	11.541500	17.929100	2.925770	40.867446	1.696600	0.027889	0.291966	0.042383	0.003115	0.001897	0.115231	0.000540	0.011213	0.006266	0.001755	0.017546
31-May-2024	0.789612	11.508200	17.877400	2.917310	40.749458	1.691710	0.027808	0.291121	0.042261	0.003106	0.001891	0.114896	0.000538	0.011181	0.006248	0.001750	0.017496
1-Jun-2024	0.817879	11.418100	17.737200	2.894590	40.430917	1.678410	0.027591	0.288843	0.041933	0.003082	0.001876	0.114009	0.000534	0.011094	0.006199	0.001736	0.017359
2-Jun-2024	0.887415	11.269700	17.505600	2.857290	39.906761	1.656430	0.027233	0.285092	0.041399	0.003042	0.001853	0.112557	0.000527	0.010951	0.006118	0.001713	0.017133
3-Jun-2024	0.977205	11.091200	17.224700	2.813040	39.278825	1.629640	0.026805	0.280619	0.040796	0.002993	0.001825	0.110859	0.000518	0.010782	0.006021	0.001686	0.016863
4-Jun-2024	1.243752	10.924700	16.954900	2.773950	38.702102	1.603490	0.026414	0.276575	0.040358	0.002945	0.001804	0.109442	0.000510	0.010635	0.005929	0.001662	0.016616
5-Jun-2024	1.296411	10.717700	16.615300	2.726580	37.990153	1.570180	0.025925	0.271501	0.039969	0.002884	0.001781	0.107813	0.000499	0.010458	0.005814	0.001631	0.016310
6-Jun-2024	1.305386	10.541200	16.323600	2.686810	37.385660	1.541550	0.025517	0.267295	0.039533	0.002832	0.001760	0.106403	0.000490	0.010310	0.005716	0.001605	0.016051
7-Jun-2024	1.326441	10.340000	15.989600	2.641920	36.698407	1.508410	0.025043	0.262389	0.039260	0.002771	0.001742	0.104867	0.000480	0.010144	0.005603	0.001576	0.015755
8-Jun-2024	1.392219	10.143300	15.660300	2.598730	36.029390	1.475620	0.024583	0.257637	0.038919	0.002711	0.001724	0.103421	0.000469	0.009984	0.005493	0.001547	0.015467
9-Jun-2024	1.577897	10.013800	15.439100	2.571600	35.594307	1.453300	0.024282	0.254541	0.038600	0.002671	0.001711	0.102579	0.000462	0.009885	0.005420	0.001528	0.015280
10-Jun-2024	1.892030	9.869370	15.193900	2.540850	35.107037	1.428460	0.023937	0.250967	0.038417	0.002626	0.001697	0.101577	0.000454	0.009772	0.005339	0.001507	0.015068
11-Jun-2024	2.133202	9.702290	14.909100	2.505640	34.544844	1.399490	0.023536	0.246825	0.038792	0.002573	0.001687	0.100455	0.000445	0.009643	0.005245	0.001482	0.014823
12-Jun-2024	2.336341	9.545130	14.644600	2.474380	34.023686	1.372300	0.023184	0.243222	0.038693	0.002524	0.001683	0.099601	0.000437	0.009532	0.005156	0.001460	0.014599
13-Jun-2024	2.572578	9.415060	14.423900	2.444450	33.575650	1.350060	0.022849	0.239747	0.038180	0.002484	0.001668	0.098645	0.000430	0.009423	0.005083	0.001440	0.014397
14-Jun-2024	2.869158	9.242070	14.121500	2.410860	33.005370	1.319320	0.022466	0.235698	0.037918	0.002429	0.001658	0.097573	0.000420	0.009300	0.004984	0.001416	0.014156
15-Jun-2024	3.123211	9.101490	13.888100	2.377750	32.517995	1.295630	0.022080	0.231397	0.037625	0.002386	0.001643	0.096498	0.000413	0.009174	0.004906	0.001394	0.013937
16-Jun-2024	3.424681	8.904260	13.551000	2.336240	31.854574	1.261470	0.021615	0.226434	0.037275	0.002325	0.001623	0.095153	0.000402	0.009023	0.004795	0.001365	0.013649
17-Jun-2024	3.663935	8.735070	13.258800	2.301370	31.288511	1.231890	0.021246	0.222292	0.037225	0.002272	0.001619	0.094436	0.000392	0.008901	0.004699	0.001340	0.013403
18-Jun-2024	3.863801	8.552110	12.940100	2.264290	30.678965	1.199630	0.020814	0.217877	0.037038	0.002214	0.001598	0.093225	0.000382	0.008765	0.004595	0.001314	0.013138
19-Jun-2024	4.010123	8.368430	12.624900	2.225800	30.061814	1.167650	0.020385	0.213436	0.037036	0.002159	0.001592	0.092171	0.000372	0.008630	0.004492	0.001287	0.012865
20-Jun-2024	4.190891	8.180370	12.295600	2.188960	29.440521	1.135190	0.020052	0.209016	0.037015	0.002103	0.001578	0.091285	0.000361	0.008504	0.004385	0.001260	0.012599
21-Jun-2024	4.233651	8.066790	12.104200	2.163130	29.050544	1.114970	0.019754	0.205760	0.037046	0.002065	0.001571	0.090497	0.000355	0.008406	0.004321	0.001242	0.012425
22-Jun-2024	4.320996	7.894870	11.796000	2.130980	28.488866	1.083960	0.019398	0.202261	0.036970	0.002010	0.001560	0.089673	0.000345	0.008291	0.004223	0.001219	0.012188
23-Jun-2024	4.428081	7.772120	11.588600	2.104680	28.074056	1.063370	0.019123	0.199530	0.036780	0.001977	0.001552	0.089038	0.000339	0.008208	0.004154	0.001200	0.011997
24-Jun-2024	4.600059	7.599170	11.283300	2.072070	27.507912	1.032300	0.018709	0.195774	0.036654	0.001920	0.001543	0.088162	0.000329	0.008093	0.004056	0.001175	0.011751
25-Jun-2024	4.813470	7.483690	11.084300	2.053940	27.144899	1.012550	0.018524	0.193720	0.036553	0.001888	0.001538	0.087737	0.000322	0.008030	0.003991	0.001161	0.011609
26-Jun-2024	5.096964	7.337490	10.825600	2.023900	26.656133	0.986461	0.018187	0.190225	0.036394	0.001841	0.001529	0.086913	0.000314	0.007922	0.003908	0.001140	0.011396
27-Jun-2024	5.363293	7.202940	10.587300	1.997500	26.211446	0.962623	0.017913	0.187249	0.036283	0.001800	0.001520	0.086254	0.000306	0.007830	0.003831	0.001121	0.011208
28-Jun-2024	5.576345	7.077950	10.364100	1.972740	25.797384	0.940333	0.017649	0.184475	0.036246	0.001764	0.001512	0.085658	0.000299	0.007744	0.003759	0.001103	0.011028
29-Jun-2024	5.807584	6.977140	10.182900	1.952140	25.460831	0.922359	0.017436	0.182140	0.036070	0.001733	0.001503	0.085178	0.000293	0.007672	0.003701	0.001088	0.010880
30-Jun-2024	6.063403	6.861040	9.984630	1.926230	25.064232	0.902563	0.017158	0.179207	0.035899	0.001699	0.001494	0.084540	0.000286	0.007581	0.003637	0.001069	0.010694
1-Jul-2024	6.513685	6.424200	9.236030	1.826570	23.563043	0.829740	0.016143	0.168097	0.034216	0.001592	0.001439	0.082642	0.000263	0.007220	0.003394	0.001000	0.009999
2-Jul-2024	8.236998	6.245770	8.932810	1.783830	22.941500	0.800670	0.015768	0.164031	0.033746	0.001539	0.001421	0.081990	0.000253	0.007099	0.003299	0.000975	0.009750
3-Jul-2024	9.613337	6.194320	8.863610	1.765310	22.736764	0.793271	0.015567	0.162045	0.033581	0.001521	0.001408	0.086952	0.000251	0.007053	0.003275	0.000970	0.009695
4-Jul-2024	11.021545	6.090380	8.688890	1.735350	22.353850	0.778865	0.015420	0.160626	0.033355	0.001522	0.001392	0.081979	0.000246	0.006992	0.003225	0.000954	0.009537
5-Jul-2024	10.893774	6.068320	8.653750	1.728560	22.270805	0.777613	0.015408	0.160576	0.033157	0.001521	0.001385	0.080727	0.000245	0.006965	0.003215	0.000950	0.009498
6-Jul-2024	12.198613	6.429070	9.310370	1.780370	23.384951	0.844290	0.016081	0.167273	0.033717	0.001635	0.001390	0.082484	0.000267	0.007249	0.003438	0.001004	0.010040
7-Jul-2024	11.497957	6.108140	8.732550	1.728990	22.372006	0.787120	0.015491	0.161372	0.033028	0.001545	0.001378	0.080971	0.000248	0.006994	0.003244	0.000955	0.009545
8-Jul-2024	11.599353	6.054710	8.639040	1.720730	22.204577	0.777346	0.015367	0.160099	0.032826	0.001529	0.001376	0.081858	0.000245	0.006944	0.003211	0.000946	0.009460
9-Jul-2024	12.418170	6.355330	9.185870	1.767780	23.148977	0.832659	0.015940	0.165908	0.033218	0.001626	0.001382	0.084044	0.000264	0.007167	0.003392	0.000991	0.009912
10-Jul-2024	12.446109	6.165270	8.828560	1.739550	22.558146	0.798638	0.015673	0.163413	0.032954	0.001581	0.001379	0.082096	0.000252	0.007039	0.003278	0.000962	0.009618
11-Jul-2024	12.103315	6.220450	8.937760	1.748170	22.731428	0.808018	0.015702	0.163601	0.032941	0.001588	0.001379	0.081689	0.000255	0.007063	0.003310	0.000971	0.009705
12-Jul-2024	12.691679	6.454180	9.366950	1.785520	23.468859	0.850644	0.016112	0.167732	0.033179	0.001659	0.001384	0.082355	0.000270	0.007226	0.003450	0.001006	0.010059
13-Jul-2024	12.940972	6.330130	9.123560	1.766760	23.081852	0.829125	0.016015	0.166843	0.033108	0.001642	0.001384	0.083134	0.000262	0.007161	0.003377	0.000986	0.009861
14-Jul-2024	13.226198	6.512890	9.479770	1.798300	23.668086	0.861153	0.016192	0.168569	0.033048	0.001677	0.001385	0.082333	0.000274	0.007242	0.003480	0.001015	0.010148
15-Jul-2024	14.087585	6.645740	9.714410	1.815810	24.071918	0.885771	0.016473	0.171371	0.033390	0.001722	0.001389	0.083497	0.000281	0.007367	0.003565	0.001035	0.010345
16-Jul-2024	14.573606	6.833800	10.051800	1.846000	24.665827	0.920726	0.016868	0.175433	0.033625	0.001789	0.001393	0.084076	0.000293	0.007511	0.003679	0.001062	0.010625
17-Jul-2024	14.901030	6.782280	9.959820	1.841380	24.518156	0.911432	0.016780	0.174640	0.033398	0.001776	0.001393	0.084043	0.000290	0.007454	0.003644	0.001055	0.010545
18-Jul-2024	15.023923	7.001270	10.357300	1.871560	25.189255	0.951310	0.017169	0.178440	0.033843	0.001840	0.001397	0.084583	0.000303	0.007636	0.003780	0.001088	0.010878
19-Jul-2024	15.448396	6.768700	9.940980	1.839340	24.475846	0.908301	0.016698	0.173743	0.033304	0.001765	0.001391	0.083609	0.000289	0.007433	0.003635	0.001053	0.010527
20-Jul-2024	15.994904	6.761840	9.932030	1.839750	24.460405	0.906804	0.016663	0.173383	0.033242	0.001761	0.001391	0.083509	0.000289	0.007419	0.003628	0.001052	0.010517

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21-Jul-2024	16.318270	6.841300	10.079800	1.853360	24.714863	0.921201	0.016791	0.174673	0.033217	0.001784	0.001393	0.083621	0.000294	0.007462	0.003674	0.001064	0.010637
22-Jul-2024	16.567555	6.880590	10.143800	1.856040	24.824006	0.928651	0.016897	0.175689	0.033442	0.001800	0.001394	0.083999	0.000296	0.007519	0.003703	0.001069	0.010693
23-Jul-2024	17.074657	7.018250	10.404000	1.881290	25.271722	0.953472	0.017102	0.177787	0.033429	0.001839	0.001396	0.084127	0.000305	0.007587	0.003781	0.001090	0.010903
24-Jul-2024	17.487185	6.931440	10.240300	1.865980	24.991911	0.937728	0.016966	0.176362	0.033374	0.001815	0.001395	0.084067	0.000299	0.007539	0.003731	0.001077	0.010769
25-Jul-2024	17.810613	6.910750	10.203200	1.863660	24.930695	0.933860	0.016923	0.175916	0.033284	0.001809	0.001394	0.084025	0.000298	0.007518	0.003717	0.001074	0.010736
26-Jul-2024	16.838430	6.935180	10.248600	1.868110	25.010021	0.938241	0.016960	0.176263	0.033270	0.001817	0.001395	0.084096	0.000299	0.007531	0.003731	0.001077	0.010772
27-Jul-2024	16.336838	6.956160	10.287700	1.872140	25.079004	0.941955	0.016989	0.176548	0.033240	0.001824	0.001395	0.084154	0.000301	0.007541	0.003743	0.001080	0.010802
28-Jul-2024	15.839694	7.008720	10.384200	1.880910	25.246361	0.951525	0.017081	0.177459	0.033267	0.001840	0.001396	0.084332	0.000304	0.007575	0.003774	0.001088	0.010880
29-Jul-2024	15.607483	7.078670	10.512300	1.892320	25.468013	0.964358	0.017209	0.178753	0.033321	0.001863	0.001397	0.084604	0.000308	0.007623	0.003815	0.001099	0.010985
30-Jul-2024	15.769711	7.195300	10.726600	1.911070	25.836450	0.985594	0.017410	0.180774	0.033431	0.001898	0.001400	0.084898	0.000316	0.007703	0.003885	0.001116	0.011161
31-Jul-2024	15.545315	7.229800	10.788600	1.916600	25.945369	0.991979	0.017480	0.181478	0.033459	0.001911	0.001401	0.085091	0.000318	0.007729	0.003906	0.001121	0.011212
1-Aug-2024	14.993779	7.262910	10.851100	1.922740	26.053330	0.997907	0.017525	0.181929	0.033426	0.001921	0.001401	0.085177	0.000320	0.007745	0.003924	0.001126	0.011261
2-Aug-2024	15.099668	7.296180	10.912900	1.928840	26.161525	1.003340	0.017550	0.182120	0.033410	0.001931	0.001402	0.085254	0.000322	0.007763	0.003943	0.001131	0.011310
3-Aug-2024	15.136223	7.327670	10.971700	1.934360	26.262886	1.008550	0.017575	0.182331	0.033400	0.001940	0.001402	0.085298	0.000324	0.007780	0.003961	0.001136	0.011357
4-Aug-2024	15.332679	7.360030	11.033800	1.941690	26.373874	1.013210	0.017572	0.182208	0.033325	0.001950	0.001403	0.085377	0.000326	0.007788	0.003978	0.001140	0.011405
5-Aug-2024	15.556270	7.592500	11.458500	1.976990	27.099717	1.055690	0.017980	0.186273	0.033647	0.002020	0.001408	0.085967	0.000340	0.007962	0.004119	0.001176	0.011757
6-Aug-2024	14.696777	7.344500	11.007600	1.940670	26.330896	1.009520	0.017487	0.181276	0.033177	0.001944	0.001403	0.085212	0.000325	0.007765	0.003967	0.001138	0.011379
7-Aug-2024	14.485406	7.383360	11.080300	1.948110	26.458567	1.015850	0.017514	0.181489	0.033145	0.001955	0.001404	0.085307	0.000327	0.007783	0.003988	0.001144	0.011436
8-Aug-2024	14.510004	7.540710	11.369600	1.973760	26.957097	1.043790	0.017752	0.183821	0.033282	0.002003	0.001407	0.085728	0.000337	0.007890	0.004082	0.001167	0.011673
9-Aug-2024	14.434217	7.498480	11.294400	1.968520	26.830070	1.035490	0.017651	0.182772	0.033184	0.001989	0.001406	0.085693	0.000335	0.007852	0.004055	0.001161	0.011609
10-Aug-2024	13.489434	7.595150	11.469100	1.983890	27.134749	1.052940	0.017811	0.184384	0.033252	0.002022	0.001408	0.086015	0.000341	0.007921	0.004113	0.001175	0.011753
11-Aug-2024	13.016072	7.618250	11.512000	1.988460	27.211249	1.056630	0.017825	0.184492	0.033217	0.002030	0.001409	0.086100	0.000342	0.007931	0.004126	0.001179	0.011786
12-Aug-2024	13.033626	7.585480	11.452900	1.984560	27.113362	1.050080	0.017737	0.183583	0.033101	0.002020	0.001408	0.086016	0.000340	0.007900	0.004104	0.001173	0.011734
13-Aug-2024	13.179060	7.859360	11.953700	2.026340	27.969290	1.099990	0.018220	0.188391	0.033475	0.002103	0.001414	0.086740	0.000357	0.008103	0.004270	0.001215	0.012149
14-Aug-2024	13.120753	7.934420	12.100200	2.042670	28.223962	1.110970	0.018191	0.187884	0.033332	0.002121	0.001415	0.086679	0.000362	0.008121	0.004309	0.001226	0.012265
15-Aug-2024	13.492360	7.826640	11.899100	2.026690	27.889030	1.091810	0.018039	0.186413	0.033225	0.002093	0.001413	0.086674	0.000355	0.008051	0.004245	0.001210	0.012099
16-Aug-2024	14.115898	8.198270	12.574200	2.081910	29.044386	1.159920	0.018730	0.193345	0.033777	0.002210	0.001421	0.087864	0.000378	0.008335	0.004472	0.001266	0.012659
17-Aug-2024	13.335185	7.914000	12.056500	2.040060	28.162225	1.107200	0.018176	0.187772	0.033275	0.002124	0.001415	0.087082	0.000360	0.008113	0.004297	0.001223	0.012226
18-Aug-2024	13.009226	7.788380	11.828700	2.021700	27.772945	1.083670	0.017917	0.185145	0.033002	0.002084	0.001412	0.086645	0.000353	0.008011	0.004220	0.001203	0.012034
19-Aug-2024	13.243264	7.794070	11.841300	2.023630	27.795101	1.084020	0.017886	0.184778	0.032929	0.002084	0.001413	0.086565	0.000353	0.008006	0.004222	0.001204	0.012041
20-Aug-2024	12.555623	7.845350	11.938000	2.032960	27.961568	1.092540	0.017927	0.185112	0.032920	0.002099	0.001413	0.086613	0.000356	0.008032	0.004251	0.001212	0.012120
21-Aug-2024	12.333494	7.930540	12.094200	2.046520	28.230128	1.107780	0.018062	0.186440	0.033008	0.002125	0.001415	0.086850	0.000362	0.008092	0.004302	0.001225	0.012248
22-Aug-2024	12.271040	7.993570	12.215100	2.059150	28.439524	1.117590	0.018073	0.186431	0.032914	0.002141	0.001416	0.086848	0.000366	0.008115	0.004336	0.001234	0.012344
23-Aug-2024	12.299000	7.999660	12.229800	2.062030	28.466591	1.117630	0.018023	0.185873	0.032822	0.002141	0.001416	0.086779	0.000366	0.008105	0.004337	0.001235	0.012353
24-Aug-2024	12.190298	7.969180	12.175600	2.058450	28.375740	1.111420	0.017937	0.185019	0.032760	0.002132	0.001416	0.086691	0.000364	0.008076	0.004317	0.001231	0.012307
25-Aug-2024	12.094315	8.111230	12.432700	2.079640	28.817699	1.137610	0.018204	0.187636	0.032921	0.002177	0.001419	0.087163	0.000373	0.008186	0.004404	0.001252	0.012519
26-Aug-2024	12.334862	8.023270	12.268400	2.065180	28.538516	1.122010	0.018082	0.186462	0.032829	0.002153	0.001417	0.087070	0.000368	0.008129	0.004352	0.001238	0.012382
27-Aug-2024	12.324862	8.067910	12.349200	2.073330	28.683544	1.129370	0.018127	0.186830	0.032826	0.002169	0.001418	0.087317	0.000370	0.008157	0.004378	0.001245	0.012446
28-Aug-2024	12.612345	8.246310	12.676100	2.100600	29.241307	1.161880	0.018439	0.189946	0.033059	0.002222	0.001422	0.087740	0.000381	0.008288	0.004486	0.001272	0.012717
29-Aug-2024	12.964711	8.300080	12.771700	2.109570	29.412509	1.171230	0.018523	0.190733	0.033119	0.002242	0.001423	0.088121	0.000384	0.008328	0.004518	0.001279	0.012794
30-Aug-2024	12.422270	8.242960	12.660900	2.100400	29.232118	1.159250	0.018371	0.189067	0.033055	0.002229	0.001423	0.088226	0.000381	0.008298	0.004485	0.001270	0.012701
31-Aug-2024	11.281017	8.151560	12.500900	2.089410	28.958636	1.141980	0.018154	0.186909	0.032730	0.002199	0.001421	0.087791	0.000375	0.008203	0.004425	0.001256	0.012563
1-Sep-2024	10.696511	8.176610	12.547400	2.094290	29.041281	1.145960	0.018167	0.187003	0.032702	0.002208	0.001421	0.087891	0.000377	0.008215	0.004439	0.001260	0.012599
2-Sep-2024	10.576964	8.370940	12.904600	2.123750	29.647840	1.181580	0.018507	0.190380	0.032946	0.002266	0.001424	0.088370	0.000389	0.008357	0.004557	0.001289	0.012894
3-Sep-2024	10.875628	8.573600	13.284400	2.153770	30.277504	1.219300	0.018838	0.193667	0.033118	0.002327	0.001425	0.088656	0.000402	0.008492	0.004680	0.001320	0.013202
4-Sep-2024	10.351543	8.406880	12.973200	2.128920	29.758872	1.188420	0.018558	0.190888	0.032932	0.002279	0.001424	0.088466	0.000391	0.008378	0.004579	0.001295	0.012947
5-Sep-2024	10.056907	8.474810	13.101900	2.139000	29.970003	1.201040	0.018659	0.191881	0.032966	0.002299	0.001423	0.088528	0.000396	0.008420	0.004620	0.001305	0.013049
6-Sep-2024	9.961560	8.539710	13.218900	2.149060	30.173485	1.212720	0.018777	0.193049	0.033057	0.002319	0.001425	0.088747	0.000400	0.008471	0.004659	0.001315	0.013146
7-Sep-2024	9.936905	8.400950	12.973800	2.127570	29.738505	1.187780	0.018494	0.190206	0.032762	0.002276	0.001421	0.088236	0.000391	0.008352	0.004575	0.001294	0.012936
8-Sep-2024	9.273699	8.565710	13.269500	2.153080	30.254961	1.217520	0.018799	0.193248	0.033006	0.002330	0.001424	0.088853	0.000401	0.008483	0.004675	0.001318	0.013183
9-Sep-2024	8.732193	8.637760	13.402000	2.163990	30.479798	1.230740	0.018924	0.194495	0.033093	0.002353	0.001425	0.089058	0.000406	0.008535	0.004719	0.001329	0.013292
10-Sep-2024	8.540990	8.707640	13.535600	2.174390	30.697115	1.243760	0.019023	0.195460	0.033104	0.002373	0.001425	0.089052	0.000410	0.008576	0.004761	0.001340	0.013398

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Sep-2024	8.656240	8.620400	13.375100	2.161470	30.426072	1.227530	0.018856	0.193759	0.032954	0.002348	0.001423	0.088914	0.000405	0.008510	0.004708	0.001326	0.013263
12-Sep-2024	8.706968	8.711310	13.539400	2.175540	30.711015	1.243960	0.019021	0.195401	0.033089	0.002377	0.001425	0.089261	0.000410	0.008581	0.004763	0.001340	0.013399
13-Sep-2024	9.065835	8.861500	13.827500	2.197380	31.175976	1.272270	0.019242	0.197585	0.033152	0.002420	0.001425	0.089278	0.000420	0.008669	0.004853	0.001363	0.013629
14-Sep-2024	8.933516	8.881510	13.856200	2.201080	31.241178	1.275410	0.019302	0.198181	0.033245	0.002429	0.001426	0.089582	0.000421	0.008697	0.004866	0.001366	0.013657
15-Sep-2024	8.996804	8.924250	13.935400	2.207620	31.374831	1.283220	0.019370	0.198850	0.033276	0.002442	0.001427	0.089695	0.000424	0.008726	0.004892	0.001372	0.013721
16-Sep-2024	8.939140	9.137640	14.333200	2.239580	32.039278	1.322730	0.019725	0.202377	0.033483	0.002506	0.001428	0.090050	0.000437	0.008872	0.005021	0.001404	0.014045
17-Sep-2024	9.204258	8.938660	13.972800	2.209280	31.417649	1.286350	0.019347	0.198585	0.033142	0.002445	0.001424	0.089407	0.000425	0.008717	0.004900	0.001374	0.013743
18-Sep-2024	9.352327	9.236740	14.511100	2.255000	32.350230	1.340480	0.019903	0.204131	0.033636	0.002538	0.001432	0.090502	0.000443	0.008950	0.005081	0.001419	0.014192
19-Sep-2024	8.840249	9.243390	14.529600	2.255600	32.369306	1.342040	0.019887	0.203947	0.033550	0.002540	0.001429	0.090327	0.000444	0.008943	0.005085	0.001420	0.014202
20-Sep-2024	8.428451	9.231520	14.509000	2.253850	32.332460	1.339910	0.019860	0.203672	0.033507	0.002537	0.001428	0.090274	0.000443	0.008932	0.005077	0.001418	0.014184
21-Sep-2024	8.301279	9.353040	14.730100	2.272430	32.712408	1.361980	0.020077	0.205830	0.033677	0.002574	0.001431	0.090649	0.000451	0.009024	0.005151	0.001437	0.014367
22-Sep-2024	8.020367	9.562020	15.123600	2.303570	33.362465	1.400880	0.020408	0.209114	0.033822	0.002636	0.001431	0.090887	0.000464	0.009159	0.005277	0.001468	0.014684
23-Sep-2024	7.609442	9.120490	14.308800	2.237310	31.987106	1.319340	0.019627	0.201305	0.033239	0.002504	0.001425	0.089931	0.000437	0.008841	0.005009	0.001401	0.014011
24-Sep-2024	6.910233	9.137420	14.340100	2.240000	32.040458	1.322400	0.019650	0.201516	0.033230	0.002511	0.001425	0.090032	0.000438	0.008851	0.005019	0.001404	0.014035
25-Sep-2024	6.494769	9.312950	14.664300	2.266400	32.587471	1.354720	0.019952	0.204534	0.033441	0.002564	0.001427	0.090405	0.000448	0.008977	0.005126	0.001430	0.014302
26-Sep-2024	5.856592	9.327910	14.691600	2.268750	32.634504	1.357440	0.019974	0.204738	0.033435	0.002570	0.001427	0.090525	0.000449	0.008987	0.005135	0.001432	0.014322
27-Sep-2024	5.555320	9.338970	14.724800	2.269620	32.665703	1.360180	0.019943	0.204393	0.033289	0.002572	0.001425	0.090213	0.000451	0.008972	0.005141	0.001434	0.014340
28-Sep-2024	5.187185	9.285760	14.624400	2.262010	32.501500	1.350130	0.019856	0.203527	0.033244	0.002555	0.001424	0.090152	0.000447	0.008937	0.005109	0.001426	0.014259
29-Sep-2024	5.106106	9.459320	14.936900	2.288710	33.044830	1.381510	0.020179	0.206747	0.033525	0.002609	0.001428	0.090716	0.000458	0.009074	0.005214	0.001452	0.014520
30-Sep-2024	4.342555	9.412630	14.853600	2.281590	32.898925	1.373030	0.020085	0.205787	0.033427	0.002595	0.001426	0.090552	0.000455	0.009035	0.005186	0.001445	0.014449
1-Oct-2024	4.235670	9.551530	15.107100	2.302740	33.332854	1.398400	0.020334	0.208265	0.033621	0.002637	0.001429	0.090941	0.000463	0.009139	0.005270	0.001466	0.014659
2-Oct-2024	4.043845	9.396360	14.825900	2.278790	32.846768	1.370240	0.020050	0.205445	0.033384	0.002590	0.001425	0.090421	0.000454	0.009020	0.005176	0.001442	0.014425
3-Oct-2024	3.991503	9.375530	14.787800	2.275590	32.781578	1.366440	0.020014	0.205074	0.033354	0.002583	0.001425	0.090362	0.000453	0.009005	0.005163	0.001439	0.014393
4-Oct-2024	3.875308	9.289680	14.631600	2.262260	32.512318	1.350790	0.019854	0.203468	0.033249	0.002558	0.001423	0.090125	0.000448	0.008940	0.005111	0.001426	0.014262
5-Oct-2024	3.590003	9.254620	14.567000	2.256720	32.401959	1.344540	0.019804	0.202988	0.033200	0.002547	0.001422	0.090038	0.000445	0.008916	0.005090	0.001421	0.014210
6-Oct-2024	3.135498	9.225050	14.513100	2.252120	32.309180	1.339160	0.019748	0.202429	0.033145	0.002538	0.001421	0.090000	0.000444	0.008894	0.005072	0.001416	0.014164
7-Oct-2024	2.302265	9.178450	14.427200	2.244860	32.162923	1.330770	0.019670	0.201655	0.033088	0.002526	0.001420	0.089923	0.000441	0.008861	0.005045	0.001409	0.014093
8-Oct-2024	1.510261	9.145630	14.367300	2.239500	32.058899	1.324960	0.019618	0.201147	0.033055	0.002517	0.001419	0.089831	0.000439	0.008838	0.005025	0.001404	0.014043
9-Oct-2024	0.974724	9.135300	14.348800	2.237700	32.025693	1.323180	0.019601	0.200985	0.033037	0.002513	0.001419	0.089755	0.000438	0.008830	0.005019	0.001403	0.014028
10-Oct-2024	0.509006	9.133110	14.345900	2.237020	32.017424	1.322920	0.019597	0.200944	0.033033	0.002512	0.001418	0.089706	0.000438	0.008828	0.005018	0.001402	0.014025
11-Oct-2024	0.191826	9.128110	14.337600	2.235940	32.000492	1.322150	0.019590	0.200877	0.033033	0.002510	0.001418	0.089624	0.000438	0.008824	0.005015	0.001402	0.014018
12-Oct-2024	0.081936	9.097520	14.281800	2.231020	31.903848	1.316720	0.019542	0.200410	0.033005	0.002500	0.001417	0.089684	0.000436	0.008802	0.004997	0.001397	0.013972
13-Oct-2024	0.039147	9.074480	14.240200	2.227150	31.830380	1.312690	0.019502	0.200015	0.032964	0.002494	0.001416	0.089571	0.000435	0.008785	0.004983	0.001394	0.013937
14-Oct-2024	0.067530	9.059090	14.212300	2.224600	31.781451	1.309990	0.019476	0.199762	0.032941	0.002490	0.001416	0.089648	0.000434	0.008774	0.004974	0.001391	0.013913
15-Oct-2024	0.097831	9.049390	14.194400	2.223080	31.750970	1.308240	0.019460	0.199600	0.032927	0.002488	0.001416	0.089487	0.000433	0.008767	0.004968	0.001390	0.013898
16-Oct-2024	0.105441	9.070320	14.228900	2.227670	31.822134	1.311480	0.019501	0.200019	0.032984	0.002494	0.001418	0.089631	0.000434	0.008785	0.004980	0.001393	0.013930
17-Oct-2024	0.102403	9.141920	14.332700	2.248010	32.084679	1.320750	0.019668	0.201761	0.033303	0.002515	0.001433	0.090600	0.000437	0.008862	0.005018	0.001404	0.014039
18-Oct-2024	0.101509	9.209120	14.435000	2.265640	32.325078	1.330180	0.019817	0.203299	0.033566	0.002534	0.001445	0.091402	0.000440	0.008930	0.005054	0.001414	0.014142
19-Oct-2024	0.102087	9.282310	14.553400	2.283950	32.583234	1.341150	0.019974	0.204919	0.033835	0.002555	0.001457	0.092187	0.000444	0.009002	0.005095	0.001425	0.014255
20-Oct-2024	0.107605	9.302950	14.586200	2.287310	32.648609	1.344140	0.020014	0.205308	0.033889	0.002558	0.001458	0.092146	0.000445	0.009018	0.005106	0.001429	0.014287
21-Oct-2024	0.108422	9.342400	14.647400	2.297220	32.787925	1.349750	0.020100	0.206192	0.034037	0.002569	0.001464	0.092560	0.000447	0.009057	0.005128	0.001435	0.014348
22-Oct-2024	0.107926	9.370000	14.690300	2.304110	32.885215	1.353700	0.020160	0.206809	0.034141	0.002577	0.001469	0.092841	0.000448	0.009084	0.005143	0.001439	0.014390
23-Oct-2024	0.109033	9.368610	14.686500	2.304310	32.882568	1.353290	0.020160	0.206815	0.034150	0.002577	0.001469	0.092879	0.000448	0.009084	0.005142	0.001439	0.014388
24-Oct-2024	0.109102	9.384540	14.711700	2.308170	32.938240	1.355620	0.020195	0.207170	0.034210	0.002581	0.001472	0.093019	0.000449	0.009099	0.005151	0.001441	0.014413
25-Oct-2024	0.110533	9.415330	14.759700	2.315820	33.046626	1.360030	0.020261	0.207852	0.034323	0.002589	0.001477	0.093336	0.000450	0.009129	0.005167	0.001446	0.014460
26-Oct-2024	0.112805	9.456670	14.824500	2.325990	33.191732	1.366000	0.020350	0.208764	0.034474	0.002601	0.001483	0.093746	0.000452	0.009169	0.005190	0.001452	0.014523
27-Oct-2024	0.113800	9.517820	14.921900	2.340560	33.404423	1.375020	0.020479	0.210085	0.034686	0.002617	0.001492	0.094303	0.000455	0.009227	0.005224	0.001462	0.014617
28-Oct-2024	0.112949	9.576060	15.013900	2.354650	33.607871	1.383520	0.020603	0.211355	0.034892	0.002633	0.001501	0.094858	0.000458	0.009283	0.005256	0.001471	0.014707
29-Oct-2024	0.111255	9.588840	15.033700	2.357870	33.653042	1.385340	0.020631	0.211642	0.034941	0.002637	0.001503	0.094992	0.000458	0.009296	0.005263	0.001473	0.014727
30-Oct-2024	0.109464	9.612420	15.070000	2.363870	33.736629	1.388670	0.020683	0.212177	0.035032	0.002643	0.001507	0.095245	0.000460	0.009319	0.005276	0.001476	0.014763
31-Oct-2024	0.108440	9.642080	15.116200	2.371260	33.841122	1.392920	0.020748	0.212838	0.035142	0.002651	0.001512	0.095548	0.000461	0.009348	0.005292	0.001481	0.014808
1-Nov-2024	0.108117	9.671680	15.162400	2.378600	33.945260	1.397170	0.020812	0.213496	0.035252	0.002660	0.001517	0.095848	0.000462	0.009377	0.005308	0.001485	0.014854

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Nov-2024	0.108582	9.706650	15.216500	2.387430	34.068942	1.402130	0.020888	0.214283	0.035385	0.002669	0.001522	0.096217	0.000464	0.009412	0.005327	0.001491	0.014908
3-Nov-2024	0.108497	9.670150	15.159200	2.378480	33.940945	1.396850	0.020810	0.213479	0.035253	0.002659	0.001517	0.095857	0.000462	0.009376	0.005307	0.001485	0.014851
4-Nov-2024	0.107972	9.727570	15.249200	2.392610	34.142510	1.405140	0.020933	0.214747	0.035462	0.002675	0.001526	0.096497	0.000465	0.009432	0.005339	0.001494	0.014940
5-Nov-2024	0.107555	9.785720	15.340300	2.406930	34.346681	1.413530	0.021059	0.216031	0.035674	0.002691	0.001535	0.097007	0.000468	0.009488	0.005371	0.001503	0.015029
6-Nov-2024	0.106796	9.843330	15.430600	2.421120	34.548967	1.421840	0.021183	0.217304	0.035885	0.002707	0.001544	0.097582	0.000471	0.009544	0.005402	0.001512	0.015117
7-Nov-2024	0.106009	9.898330	15.516700	2.434670	34.742101	1.429780	0.021301	0.218519	0.036085	0.002722	0.001553	0.098130	0.000473	0.009598	0.005432	0.001520	0.015202
8-Nov-2024	0.105691	9.945780	15.591000	2.446360	34.908723	1.436630	0.021403	0.219566	0.036258	0.002735	0.001560	0.098605	0.000475	0.009644	0.005458	0.001527	0.015275
9-Nov-2024	0.105326	9.991070	15.661900	2.457540	35.067852	1.443150	0.021501	0.220567	0.036423	0.002748	0.001567	0.099061	0.000478	0.009688	0.005483	0.001534	0.015344
10-Nov-2024	0.105216	10.039900	15.738200	2.469610	35.239484	1.450170	0.021606	0.221647	0.036602	0.002761	0.001575	0.099554	0.000480	0.009735	0.005510	0.001542	0.015419
11-Nov-2024	0.104725	10.086100	15.810400	2.481040	35.401914	1.456820	0.021705	0.222670	0.036771	0.002774	0.001582	0.100022	0.000482	0.009780	0.005535	0.001549	0.015490
12-Nov-2024	0.104132	10.126300	15.873300	2.491000	35.543309	1.462610	0.021792	0.223561	0.036919	0.002785	0.001589	0.100430	0.000484	0.009819	0.005557	0.001555	0.015552
13-Nov-2024	0.103404	10.171700	15.944400	2.502200	35.702795	1.469160	0.021890	0.224564	0.037084	0.002798	0.001596	0.100886	0.000486	0.009864	0.005582	0.001562	0.015621
14-Nov-2024	0.102902	10.218200	16.017200	2.513650	35.866056	1.475870	0.021990	0.225589	0.037253	0.002811	0.001603	0.101351	0.000488	0.009909	0.005608	0.001569	0.015693
15-Nov-2024	0.102539	10.258700	16.080600	2.523630	36.008282	1.481710	0.022077	0.226482	0.037400	0.002822	0.001610	0.101758	0.000490	0.009948	0.005630	0.001575	0.015755
16-Nov-2024	0.102739	10.295700	16.138500	2.532740	36.138186	1.487040	0.022156	0.227297	0.037534	0.002832	0.001615	0.102129	0.000492	0.009984	0.005650	0.001581	0.015811
17-Nov-2024	0.102989	10.331100	16.194000	2.541460	36.262489	1.492160	0.022233	0.228079	0.037663	0.002842	0.001621	0.102482	0.000494	0.010018	0.005670	0.001587	0.015866
18-Nov-2024	0.103029	10.362300	16.242800	2.549170	36.372145	1.496650	0.022300	0.228769	0.037777	0.002851	0.001626	0.102797	0.000495	0.010049	0.005687	0.001591	0.015914
19-Nov-2024	0.102775	10.387000	16.281300	2.555290	36.459023	1.500190	0.022353	0.229315	0.037867	0.002858	0.001630	0.103049	0.000496	0.010073	0.005700	0.001595	0.015951
20-Nov-2024	0.102355	10.421000	16.334700	2.563600	36.578142	1.505120	0.022426	0.230061	0.037989	0.002867	0.001635	0.103385	0.000498	0.010105	0.005719	0.001600	0.016004
21-Nov-2024	0.101946	10.478200	16.425200	2.577440	36.777963	1.513480	0.022548	0.231308	0.038192	0.002883	0.001644	0.103929	0.000501	0.010160	0.005751	0.001609	0.016092
22-Nov-2024	0.101508	10.527800	16.502800	2.589660	36.952136	1.520630	0.022654	0.232404	0.038373	0.002896	0.001651	0.104424	0.000503	0.010208	0.005778	0.001617	0.016168
23-Nov-2024	0.101121	10.580700	16.585300	2.602800	37.138338	1.528220	0.022769	0.233579	0.038568	0.002911	0.001660	0.104963	0.000506	0.010260	0.005807	0.001625	0.016249
24-Nov-2024	0.100875	10.555000	16.545100	2.596490	37.048181	1.524510	0.022713	0.233012	0.038474	0.002904	0.001656	0.104710	0.000505	0.010235	0.005793	0.001621	0.016209
25-Nov-2024	0.100816	10.601600	16.618000	2.607930	37.211651	1.531230	0.022813	0.234038	0.038643	0.002917	0.001663	0.105174	0.000507	0.010280	0.005818	0.001628	0.016281
26-Nov-2024	0.100715	10.640300	16.678700	2.617470	37.347571	1.536830	0.022897	0.234893	0.038784	0.002927	0.001669	0.105559	0.000509	0.010318	0.005840	0.001634	0.016340
27-Nov-2024	0.100627	10.675100	16.733200	2.626070	37.469881	1.541840	0.022972	0.235663	0.038911	0.002937	0.001675	0.105910	0.000510	0.010352	0.005859	0.001639	0.016394
28-Nov-2024	0.100654	10.715200	16.796200	2.635920	37.610573	1.547650	0.023058	0.236547	0.039056	0.002948	0.001681	0.106308	0.000512	0.010391	0.005881	0.001646	0.016455
29-Nov-2024	0.100388	10.765000	16.874200	2.648160	37.785328	1.554830	0.023165	0.237644	0.039237	0.002962	0.001689	0.106804	0.000515	0.010439	0.005908	0.001653	0.016532
30-Nov-2024	0.100218	10.810600	16.945500	2.659460	37.945724	1.561400	0.023263	0.238654	0.039404	0.002975	0.001696	0.107267	0.000517	0.010483	0.005933	0.001660	0.016602
1-Dec-2024	0.100268	10.854200	17.013200	2.670310	38.099274	1.567620	0.023358	0.239622	0.039565	0.002987	0.001703	0.107717	0.000519	0.010526	0.005957	0.001667	0.016668
2-Dec-2024	0.100295	10.902000	17.087900	2.682190	38.267552	1.574490	0.023461	0.240684	0.039741	0.003000	0.001711	0.108206	0.000521	0.010573	0.005983	0.001674	0.016742
3-Dec-2024	0.100181	10.948400	17.160400	2.693680	38.430729	1.581170	0.023561	0.241713	0.039912	0.003013	0.001718	0.108677	0.000523	0.010618	0.006008	0.001681	0.016813
4-Dec-2024	0.100106	10.995400	17.233900	2.705250	38.595733	1.587930	0.023662	0.242749	0.040083	0.003026	0.001726	0.109146	0.000526	0.010663	0.006034	0.001689	0.016885
5-Dec-2024	0.100134	11.051400	17.321700	2.719030	38.792311	1.596030	0.023783	0.243985	0.040287	0.003041	0.001734	0.109702	0.000528	0.010718	0.006065	0.001697	0.016971
6-Dec-2024	0.099946	11.121800	17.432100	2.736370	39.039506	1.606200	0.023934	0.245541	0.040543	0.003061	0.001745	0.110404	0.000532	0.010786	0.006104	0.001708	0.017079
7-Dec-2024	0.099733	11.188400	17.536300	2.752780	39.273383	1.615790	0.024078	0.247011	0.040786	0.003079	0.001756	0.111070	0.000535	0.010851	0.006140	0.001718	0.017181
8-Dec-2024	0.099794	11.256900	17.643600	2.769680	39.514022	1.625680	0.024225	0.248526	0.041037	0.003098	0.001767	0.111755	0.000538	0.010917	0.006178	0.001729	0.017287
9-Dec-2024	0.099871	11.330700	17.759100	2.787840	39.773083	1.636320	0.024384	0.250155	0.041306	0.003118	0.001778	0.112491	0.000542	0.010989	0.006218	0.001740	0.017400
10-Dec-2024	0.099799	11.396300	17.862000	2.804020	40.003515	1.645800	0.024525	0.251605	0.041545	0.003136	0.001789	0.113146	0.000545	0.011052	0.006254	0.001750	0.017501
11-Dec-2024	0.099544	11.093400	17.386700	2.729610	38.940754	1.601990	0.023874	0.244921	0.040442	0.003053	0.001741	0.110158	0.000530	0.010759	0.006088	0.001704	0.017035
12-Dec-2024	0.099603	11.033400	17.286800	2.716680	38.737688	1.592600	0.023751	0.243684	0.040250	0.003039	0.001734	0.109805	0.000527	0.010706	0.006054	0.001694	0.016942
13-Dec-2024	0.099446	11.084600	17.367200	2.729250	38.917298	1.600010	0.023861	0.244814	0.040436	0.003053	0.001742	0.110309	0.000529	0.010755	0.006082	0.001702	0.017020
14-Dec-2024	0.099365	11.071500	17.348800	2.725320	38.868403	1.598390	0.023830	0.244486	0.040376	0.003049	0.001739	0.110094	0.000529	0.010741	0.006075	0.001700	0.017001
15-Dec-2024	0.099420	11.135500	17.448300	2.741300	39.094017	1.607530	0.023969	0.245912	0.040613	0.003067	0.001750	0.110759	0.000532	0.010803	0.006110	0.001710	0.017099
16-Dec-2024	0.099291	11.184300	17.523200	2.753830	39.267469	1.614380	0.024076	0.247016	0.040799	0.003081	0.001758	0.111309	0.000534	0.010852	0.006137	0.001717	0.017173
17-Dec-2024	0.099229	11.218500	17.578700	2.761640	39.385028	1.619560	0.024147	0.247739	0.040914	0.003089	0.001762	0.111572	0.000536	0.010884	0.006156	0.001723	0.017226
18-Dec-2024	0.099287	11.292500	17.694200	2.780010	39.645454	1.630180	0.024307	0.249381	0.041186	0.003110	0.001774	0.112328	0.000539	0.010956	0.006196	0.001734	0.017340
19-Dec-2024	0.099214	11.381100	17.832100	2.802110	39.957696	1.642850	0.024499	0.251353	0.041514	0.003135	0.001789	0.113246	0.000544	0.011043	0.006245	0.001748	0.017476
20-Dec-2024	0.099100	11.421200	17.896200	2.811610	40.096946	1.648800	0.024584	0.252220	0.041654	0.003145	0.001794	0.113598	0.000546	0.011081	0.006267	0.001754	0.017538
21-Dec-2024	0.099164	11.490800	18.005100	2.828810	40.341567	1.658830	0.024734	0.253760	0.041909	0.003165	0.001805	0.114297	0.000549	0.011148	0.006305	0.001764	0.017644
22-Dec-2024	0.099116	11.587000	18.154800	2.852820	40.680652	1.672590	0.024942	0.255901	0.042265	0.003191	0.001821	0.115297	0.000554	0.011242	0.006358	0.001779	0.017792
23-Dec-2024	0.098930	11.627300	18.219000	2.862430	40.820855	1.678530	0.025028	0.256775	0.042407	0.003202	0.001827	0.115657	0.000555	0.011281	0.006380	0.001785	0.017854

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24-Dec-2024	0.098983	11.682400	18.305500	2.875940	41.014074	1.686500	0.025146	0.257989	0.042607	0.003217	0.001835	0.116199	0.000558	0.011334	0.006410	0.001794	0.017939
25-Dec-2024	0.098972	11.776600	18.452100	2.899390	41.345858	1.699990	0.025350	0.260082	0.042955	0.003244	0.001851	0.117171	0.000563	0.011426	0.006462	0.001808	0.018083
26-Dec-2024	0.098804	11.824400	18.527700	2.910990	41.512984	1.706970	0.025452	0.261129	0.043126	0.003257	0.001858	0.117624	0.000565	0.011472	0.006488	0.001816	0.018157
27-Dec-2024	0.098860	11.860000	18.583800	2.919580	41.637250	1.712160	0.025528	0.261906	0.043253	0.003266	0.001863	0.117958	0.000567	0.011506	0.006508	0.001821	0.018211
28-Dec-2024	0.098838	11.943300	18.713800	2.940300	41.930576	1.724110	0.025708	0.263756	0.043560	0.003289	0.001877	0.118814	0.000571	0.011587	0.006554	0.001834	0.018339
29-Dec-2024	0.098691	11.980400	18.772400	2.949260	42.060111	1.729520	0.025787	0.264567	0.043693	0.003299	0.001882	0.119161	0.000572	0.011623	0.006574	0.001840	0.018396
30-Dec-2024	0.098664	12.003300	18.808900	2.954750	42.139901	1.732900	0.025836	0.265065	0.043774	0.003306	0.001886	0.119369	0.000573	0.011645	0.006587	0.001843	0.018431
31-Dec-2024	0.098699	12.080600	18.929500	2.973910	42.411820	1.744000	0.026003	0.266778	0.044058	0.003327	0.001898	0.120156	0.000577	0.011720	0.006629	0.001855	0.018550
1-Jan-2025	0.098627	12.134000	19.013300	2.987060	42.599311	1.751720	0.026118	0.267958	0.044253	0.003342	0.001906	0.120686	0.000580	0.011772	0.006658	0.001863	0.018632
2-Jan-2025	0.098596	12.159400	19.053600	2.993100	42.687608	1.755460	0.026171	0.268508	0.044342	0.003349	0.001910	0.120914	0.000581	0.011796	0.006672	0.001867	0.018671
3-Jan-2025	0.098586	12.231900	19.166600	3.011100	42.942764	1.765860	0.026328	0.270115	0.044608	0.003369	0.001922	0.121656	0.000584	0.011867	0.006712	0.001878	0.018782
4-Jan-2025	0.098436	12.284000	19.248200	3.024000	43.125980	1.773360	0.026440	0.271270	0.044799	0.003383	0.001930	0.122182	0.000587	0.011918	0.006741	0.001886	0.018862
5-Jan-2025	0.098386	12.297900	19.270600	3.027170	43.173742	1.775450	0.026469	0.271564	0.044846	0.003387	0.001932	0.122291	0.000588	0.011930	0.006748	0.001888	0.018884
6-Jan-2025	0.098395	12.369800	19.383000	3.045000	43.426701	1.785790	0.026625	0.273158	0.045110	0.003407	0.001943	0.123022	0.000591	0.012000	0.006788	0.001899	0.018994
7-Jan-2025	0.098334	12.427500	19.472900	3.059330	43.629788	1.794060	0.026749	0.274438	0.045323	0.003423	0.001952	0.123612	0.000594	0.012057	0.006819	0.001908	0.019082
8-Jan-2025	0.098226	12.456100	19.518200	3.066190	43.729452	1.798260	0.026810	0.275061	0.045424	0.003430	0.001957	0.123875	0.000595	0.012084	0.006835	0.001913	0.019127
9-Jan-2025	0.098255	12.509900	19.602500	3.079470	43.918478	1.806020	0.026926	0.276250	0.045621	0.003445	0.001965	0.124414	0.000598	0.012136	0.006865	0.001921	0.019209
10-Jan-2025	0.098252	12.571100	19.697900	3.094740	44.134176	1.814790	0.027059	0.277612	0.045847	0.003462	0.001975	0.125047	0.000601	0.012196	0.006898	0.001930	0.019303
11-Jan-2025	0.098201	12.620300	19.774900	3.106830	44.306815	1.821890	0.027164	0.278697	0.046026	0.003476	0.001983	0.125535	0.000603	0.012244	0.006925	0.001938	0.019379
12-Jan-2025	0.098202	12.660000	19.837600	3.116490	44.445726	1.827670	0.027249	0.279569	0.046169	0.003487	0.001989	0.125915	0.000605	0.012282	0.006947	0.001944	0.019440
13-Jan-2025	0.098202	12.720700	19.932200	3.131600	44.659517	1.836370	0.027381	0.280918	0.046393	0.003504	0.001999	0.126541	0.000608	0.012341	0.006980	0.001953	0.019533
14-Jan-2025	0.098171	12.767400	20.005200	3.143150	44.823690	1.843090	0.027481	0.281951	0.046564	0.003516	0.002006	0.127011	0.000610	0.012387	0.007006	0.001960	0.019604
15-Jan-2025	0.098163	12.810900	20.073700	3.153740	44.975919	1.849410	0.027575	0.282906	0.046721	0.003528	0.002013	0.127429	0.000612	0.012429	0.007030	0.001967	0.019671
16-Jan-2025	0.098165	12.868600	20.163800	3.168010	45.178759	1.857700	0.027699	0.284183	0.046932	0.003544	0.002022	0.128014	0.000615	0.012485	0.007061	0.001976	0.019760
17-Jan-2025	0.098139	12.911600	20.230900	3.178670	45.330028	1.863880	0.027792	0.285136	0.047090	0.003556	0.002029	0.128451	0.000617	0.012527	0.007085	0.001983	0.019826
18-Jan-2025	0.098074	12.964500	20.313800	3.191680	45.515695	1.871520	0.027906	0.286304	0.047283	0.003571	0.002037	0.128976	0.000619	0.012578	0.007114	0.001991	0.019907
19-Jan-2025	0.098087	13.024300	20.407700	3.206400	45.725632	1.880180	0.028034	0.287625	0.047501	0.003587	0.002046	0.129569	0.000622	0.012636	0.007147	0.002000	0.019999
20-Jan-2025	0.098095	13.062000	20.466500	3.215760	45.858314	1.885580	0.028116	0.288460	0.047639	0.003598	0.002052	0.129955	0.000624	0.012673	0.007167	0.002006	0.020057
21-Jan-2025	0.098023	13.114000	20.548000	3.228570	46.040909	1.893090	0.028228	0.289609	0.047829	0.003612	0.002061	0.130473	0.000626	0.012723	0.007196	0.002014	0.020136
22-Jan-2025	0.098031	13.179200	20.650100	3.244600	46.269725	1.902500	0.028368	0.291048	0.048067	0.003630	0.002071	0.131120	0.000630	0.012787	0.007232	0.002024	0.020237
23-Jan-2025	0.098028	13.235300	20.737900	3.258440	46.466800	1.910590	0.028489	0.292288	0.048272	0.003645	0.002080	0.131682	0.000632	0.012841	0.007262	0.002032	0.020323
24-Jan-2025	0.097955	13.251100	20.763600	3.262060	46.521160	1.912990	0.028522	0.292624	0.048325	0.003650	0.002082	0.131804	0.000633	0.012856	0.007271	0.002035	0.020347
25-Jan-2025	0.097933	13.292100	20.828200	3.271980	46.664387	1.918950	0.028609	0.293520	0.048471	0.003661	0.002088	0.132192	0.000635	0.012895	0.007294	0.002041	0.020410
26-Jan-2025	0.097898	13.331300	20.890100	3.281520	46.801555	1.924660	0.028693	0.294380	0.048612	0.003671	0.002094	0.132568	0.000637	0.012933	0.007315	0.002047	0.020470
27-Jan-2025	0.097842	13.385100	20.974700	3.294700	46.990169	1.932460	0.028809	0.295565	0.048808	0.003686	0.002102	0.133095	0.000640	0.012985	0.007345	0.002055	0.020553
28-Jan-2025	0.097812	13.451500	21.078800	3.311000	47.223094	1.942060	0.028951	0.297028	0.049049	0.003704	0.002113	0.133749	0.000643	0.013049	0.007381	0.002066	0.020655
29-Jan-2025	0.097786	13.520500	21.187100	3.327960	47.465228	1.952040	0.029100	0.298551	0.049300	0.003723	0.002124	0.134432	0.000646	0.013116	0.007419	0.002076	0.020761
30-Jan-2025	0.097778	13.604900	21.319400	3.348710	47.761423	1.964240	0.029282	0.300414	0.049607	0.003747	0.002137	0.135268	0.000650	0.013198	0.007466	0.002089	0.020891
31-Jan-2025	0.097743	13.688000	21.449600	3.369120	48.052972	1.976240	0.029460	0.302246	0.049910	0.003769	0.002150	0.136089	0.000654	0.013278	0.007511	0.002102	0.021018
1-Feb-2025	0.097721	13.764300	21.569400	3.387890	48.320788	1.987270	0.029624	0.303931	0.050188	0.003790	0.002162	0.136845	0.000658	0.013352	0.007553	0.002114	0.021136
2-Feb-2025	0.097703	13.878600	21.749400	3.415700	48.720717	2.003890	0.029869	0.306440	0.050601	0.003821	0.002179	0.137937	0.000663	0.013462	0.007616	0.002131	0.021311
3-Feb-2025	0.097687	14.023900	21.977200	3.451470	49.230832	2.024880	0.030182	0.309649	0.051131	0.003861	0.002202	0.139381	0.000670	0.013603	0.007696	0.002153	0.021534
4-Feb-2025	0.097668	14.172100	22.209400	3.487930	49.751029	2.046270	0.030501	0.312920	0.051671	0.003902	0.002225	0.140853	0.000677	0.013747	0.007777	0.002176	0.021762
5-Feb-2025	0.097655	14.320200	22.441500	3.524380	50.270936	2.067660	0.030820	0.316190	0.052211	0.003943	0.002249	0.142325	0.000684	0.013891	0.007858	0.002199	0.021989
6-Feb-2025	0.097644	14.470400	22.676800	3.561330	50.798146	2.089340	0.031143	0.319506	0.052758	0.003984	0.002272	0.143817	0.000691	0.014036	0.007941	0.002222	0.022220
7-Feb-2025	0.097631	14.651800	22.961300	3.606000	51.435053	2.115550	0.031533	0.323513	0.053420	0.004034	0.002301	0.145621	0.000700	0.014212	0.008040	0.002250	0.022499
8-Feb-2025	0.097622	14.839500	23.255400	3.652180	52.093909	2.142650	0.031937	0.327656	0.054104	0.004086	0.002330	0.147486	0.000709	0.014394	0.008143	0.002279	0.022787
9-Feb-2025	0.097616	15.017900	23.534900	3.696080	52.720154	2.168410	0.032321	0.331595	0.054754	0.004135	0.002358	0.149259	0.000718	0.014567	0.008241	0.002306	0.023061
10-Feb-2025	0.097608	15.184400	23.795800	3.737040	53.304578	2.192440	0.032679	0.335270	0.055361	0.004181	0.002384	0.150913	0.000726	0.014729	0.008333	0.002332	0.023316
11-Feb-2025	0.097604	15.343300	24.044900	3.776150	53.862406	2.215390	0.033021	0.338778	0.055940	0.004225	0.002409	0.152492	0.000733	0.014883	0.008420	0.002356	0.023560
12-Feb-2025	0.097601	15.513600	24.311800	3.818060	54.460230	2.239980	0.033388	0.342539	0.056561	0.004272	0.002436	0.154185	0.000741	0.015048	0.008513	0.002382	0.023822
13-Feb-2025	0.097594	15.702600	24.608000	3.864580	55.123733	2.267270	0.033795	0.346712	0.057250	0.004324	0.002466	0.156063	0.000750	0.015231	0.008617	0.002411	0.024112

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Feb-2025	0.097591	15.868200	24.867500	3.905340	55.705086	2.291190	0.034151	0.350369	0.057854	0.004369	0.002492	0.157709	0.000758	0.015392	0.008708	0.002437	0.024366
15-Feb-2025	0.097590	16.027500	25.117200	3.944540	56.264283	2.314190	0.034494	0.353886	0.058434	0.004413	0.002517	0.159292	0.000766	0.015547	0.008795	0.002461	0.024611
16-Feb-2025	0.097585	16.196200	25.381500	3.986050	56.856465	2.338540	0.034857	0.357610	0.059049	0.004460	0.002543	0.160968	0.000774	0.015710	0.008888	0.002487	0.024870
17-Feb-2025	0.097578	16.319500	25.574700	4.016390	57.289286	2.356340	0.035122	0.360331	0.059499	0.004494	0.002562	0.162193	0.000780	0.015830	0.008956	0.002506	0.025059
18-Feb-2025	0.097571	16.386800	25.680200	4.032940	57.525487	2.366070	0.035267	0.361817	0.059744	0.004512	0.002573	0.162860	0.000783	0.015895	0.008992	0.002516	0.025163
19-Feb-2025	0.097569	16.472400	25.814500	4.054010	57.825996	2.378440	0.035451	0.363708	0.060056	0.004536	0.002586	0.163711	0.000787	0.015978	0.009039	0.002529	0.025294
20-Feb-2025	0.097567	16.545800	25.929400	4.072050	58.083565	2.389030	0.035609	0.365326	0.060323	0.004556	0.002598	0.164439	0.000791	0.016049	0.009080	0.002541	0.025407
21-Feb-2025	0.097555	15.601900	24.449900	3.839870	54.770529	2.252700	0.033578	0.344490	0.056883	0.004296	0.002450	0.155075	0.000746	0.015134	0.008562	0.002396	0.023957
22-Feb-2025	0.097548	15.733900	24.656800	3.872360	55.233927	2.271760	0.033862	0.347405	0.057364	0.004332	0.002471	0.156387	0.000752	0.015262	0.008634	0.002416	0.024160
23-Feb-2025	0.097544	15.873600	24.875700	3.906730	55.724293	2.291930	0.034163	0.350489	0.057873	0.004371	0.002493	0.157775	0.000758	0.015397	0.008711	0.002437	0.024375
24-Feb-2025	0.097542	16.020500	25.106000	3.942900	56.240051	2.313150	0.034479	0.353733	0.058409	0.004411	0.002516	0.159236	0.000766	0.015540	0.008791	0.002460	0.024600
25-Feb-2025	0.097541	16.170300	25.340700	3.979770	56.765932	2.334770	0.034801	0.357041	0.058955	0.004453	0.002539	0.160725	0.000773	0.015685	0.008874	0.002483	0.024830
26-Feb-2025	0.097537	16.315000	25.567400	4.015360	57.273807	2.355660	0.035113	0.360234	0.059483	0.004492	0.002562	0.162162	0.000780	0.015826	0.008953	0.002505	0.025052
27-Feb-2025	0.097533	16.472400	25.814100	4.054100	57.826367	2.378390	0.035451	0.363710	0.060057	0.004536	0.002587	0.163727	0.000787	0.015978	0.009039	0.002529	0.025294
28-Feb-2025	0.097529	16.641100	26.078400	4.095620	58.418590	2.402750	0.035815	0.367435	0.060672	0.004582	0.002613	0.165404	0.000795	0.016142	0.009132	0.002555	0.025553
1-Mar-2025	0.097528	16.819300	26.357700	4.139490	59.044212	2.428470	0.036198	0.371370	0.061321	0.004631	0.002641	0.167175	0.000804	0.016315	0.009230	0.002583	0.025827
2-Mar-2025	0.097529	16.997200	26.636500	4.183270	59.668714	2.454160	0.036581	0.375298	0.061970	0.004680	0.002669	0.168944	0.000812	0.016487	0.009327	0.002610	0.026100
3-Mar-2025	0.097530	17.182500	26.926900	4.228890	60.319272	2.480920	0.036980	0.379390	0.062646	0.004731	0.002698	0.170786	0.000821	0.016667	0.009429	0.002638	0.026384
4-Mar-2025	0.097528	17.371100	27.222400	4.275290	60.981281	2.508140	0.037386	0.383554	0.063333	0.004783	0.002728	0.172660	0.000830	0.016850	0.009533	0.002667	0.026674
5-Mar-2025	0.097524	17.556900	27.513600	4.321040	61.633622	2.534980	0.037786	0.387657	0.064011	0.004834	0.002757	0.174508	0.000839	0.017030	0.009635	0.002696	0.026959
6-Mar-2025	0.097524	17.748500	27.813800	4.368180	62.306170	2.562640	0.038198	0.391887	0.064709	0.004887	0.002787	0.176412	0.000848	0.017216	0.009740	0.002725	0.027254
7-Mar-2025	0.097523	17.948800	28.127800	4.417490	63.009377	2.591560	0.038629	0.396311	0.065440	0.004942	0.002818	0.178403	0.000858	0.017410	0.009850	0.002756	0.027561
8-Mar-2025	0.097520	18.158800	28.456900	4.469170	63.746566	2.621880	0.039081	0.400947	0.066205	0.005000	0.002851	0.180490	0.000868	0.017614	0.009965	0.002788	0.027884
9-Mar-2025	0.097518	18.377400	28.799400	4.522970	64.513958	2.653440	0.039551	0.405774	0.067002	0.005060	0.002886	0.182662	0.000878	0.017826	0.010085	0.002822	0.028219
10-Mar-2025	0.097516	18.579500	29.116100	4.572700	65.223390	2.682620	0.039986	0.410235	0.067739	0.005116	0.002917	0.184671	0.000888	0.018022	0.010196	0.002853	0.028530
11-Mar-2025	0.097515	18.778400	29.427800	4.621650	65.921620	2.711340	0.040414	0.414627	0.068464	0.005171	0.002949	0.186647	0.000897	0.018215	0.010305	0.002883	0.028835
12-Mar-2025	0.097513	15.428300	24.178600	3.796910	54.160140	2.227720	0.033204	0.340645	0.056246	0.004248	0.002422	0.153321	0.000737	0.014965	0.008467	0.002369	0.023691
13-Mar-2025	0.097512	15.526500	24.332500	3.821080	54.504878	2.241910	0.033415	0.342814	0.056604	0.004275	0.002438	0.154296	0.000742	0.015060	0.008520	0.002384	0.023842
14-Mar-2025	0.097512	15.636300	24.504600	3.848110	54.890358	2.257760	0.033651	0.345238	0.057005	0.004305	0.002455	0.155388	0.000747	0.015167	0.008581	0.002401	0.024010
15-Mar-2025	0.097511	15.763500	24.703900	3.879400	55.336829	2.276130	0.033925	0.348046	0.057468	0.004340	0.002475	0.156651	0.000753	0.015290	0.008650	0.002421	0.024206
16-Mar-2025	0.097511	15.902800	24.922200	3.913680	55.825826	2.296240	0.034225	0.351122	0.057976	0.004379	0.002497	0.158035	0.000760	0.015425	0.008727	0.002442	0.024420
17-Mar-2025	0.097512	16.042600	25.141300	3.948090	56.316607	2.316430	0.034526	0.354209	0.058486	0.004417	0.002519	0.159425	0.000767	0.015561	0.008804	0.002463	0.024634
18-Mar-2025	0.097512	16.180300	25.357200	3.981990	56.800044	2.336320	0.034822	0.357250	0.058988	0.004455	0.002540	0.160794	0.000773	0.015694	0.008879	0.002485	0.024846
19-Mar-2025	0.097512	16.321100	25.577700	4.016630	57.294269	2.356640	0.035125	0.360357	0.059501	0.004494	0.002562	0.162192	0.000780	0.015831	0.008956	0.002506	0.025062
20-Mar-2025	0.097511	16.459200	25.794100	4.050610	57.779034	2.376580	0.035422	0.363406	0.060004	0.004532	0.002584	0.163565	0.000787	0.015965	0.009032	0.002527	0.025274
21-Mar-2025	0.097511	16.583600	25.989200	4.081240	58.215796	2.394550	0.035690	0.366155	0.060458	0.004566	0.002604	0.164802	0.000792	0.016085	0.009101	0.002547	0.025465
22-Mar-2025	0.097511	16.701200	26.173400	4.110170	58.628576	2.411520	0.035943	0.368750	0.060887	0.004599	0.002622	0.165970	0.000798	0.016200	0.009165	0.002565	0.025646
23-Mar-2025	0.097511	16.822300	26.363200	4.139970	59.053680	2.429000	0.036204	0.371423	0.061328	0.004632	0.002641	0.167173	0.000804	0.016317	0.009232	0.002583	0.025831
24-Mar-2025	0.097511	16.956900	26.574100	4.173100	59.526205	2.448440	0.036493	0.374395	0.061819	0.004669	0.002662	0.168511	0.000810	0.016448	0.009305	0.002604	0.026038
25-Mar-2025	0.097511	17.102200	26.801800	4.208860	60.036279	2.469420	0.036806	0.377604	0.062349	0.004709	0.002685	0.169955	0.000817	0.016588	0.009385	0.002626	0.026261
26-Mar-2025	0.097510	17.250200	27.033800	4.245280	60.555812	2.490790	0.037124	0.380872	0.062888	0.004750	0.002708	0.171426	0.000824	0.016732	0.009466	0.002649	0.026489
27-Mar-2025	0.097510	17.403200	27.273700	4.282950	61.092979	2.512890	0.037454	0.384251	0.063446	0.004792	0.002732	0.172947	0.000832	0.016880	0.009550	0.002672	0.026724
28-Mar-2025	0.097510	17.561600	27.521800	4.321910	61.648941	2.535750	0.037795	0.387746	0.064023	0.004835	0.002757	0.174520	0.000839	0.017034	0.009637	0.002697	0.026967
29-Mar-2025	0.097510	17.721900	27.773100	4.361380	62.211747	2.558910	0.038140	0.391287	0.064608	0.004880	0.002782	0.176114	0.000847	0.017190	0.009725	0.002721	0.027213
30-Mar-2025	0.097510	17.881300	28.022800	4.400600	62.771277	2.581920	0.038483	0.394806	0.065189	0.004923	0.002807	0.177697	0.000854	0.017344	0.009813	0.002746	0.027458
31-Mar-2025	0.097510	18.042100	28.274900	4.440190	63.335826	2.605150	0.038829	0.398357	0.065776	0.004968	0.002833	0.179296	0.000862	0.017500	0.009901	0.002770	0.027705
1-Apr-2025	0.097510	18.177400	28.486900	4.473480	63.810758	2.624680	0.039120	0.401345	0.066269	0.005005	0.002854	0.180640	0.000869	0.017631	0.009975	0.002791	0.027912
2-Apr-2025	0.097510	18.154900	28.451600	4.467930	63.731721	2.621430	0.039071	0.400847	0.066187	0.004999	0.002850	0.180416	0.000868	0.017610	0.009963	0.002788	0.027878
3-Apr-2025	0.097510	18.113200	28.386200	4.457670	63.585345	2.615400	0.038982	0.399926	0.066035	0.004987	0.002844	0.180002	0.000866	0.017569	0.009940	0.002781	0.027814
4-Apr-2025	0.097510	18.077200	28.329800	4.448800	63.458927	2.610200	0.038904	0.399131	0.065903	0.004977	0.002838	0.179644	0.000864	0.017534	0.009920	0.002776	0.027758
5-Apr-2025	0.097510	18.046200	28.281300	4.441190	63.350182	2.605740	0.038838	0.398448	0.065790	0.004969	0.002833	0.179336	0.000862	0.017504	0.009903	0.002771	0.027711
6-Apr-2025	0.097510	18.019300	28.239200	4.434570	63.255751	2.601850	0.038780	0.397854	0.065692	0.004961	0.002829	0.179069	0.000861	0.017478	0.009888	0.002767	0.027670

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Apr-2025	0.097510	18.006700	28.219400	4.431470	63.211523	2.600030	0.038753	0.397576	0.065646	0.004958	0.002827	0.178944	0.000860	0.017466	0.009882	0.002765	0.027650
8-Apr-2025	0.097510	17.999800	28.208500	4.429760	63.187252	2.599030	0.038738	0.397422	0.065621	0.004956	0.002826	0.178875	0.000860	0.017459	0.009878	0.002764	0.027640
9-Apr-2025	0.097510	17.973200	28.166900	4.423230	63.093942	2.595200	0.038681	0.396836	0.065524	0.004949	0.002822	0.178611	0.000859	0.017433	0.009863	0.002760	0.027599
10-Apr-2025	0.097510	17.895400	28.045000	4.404080	62.820815	2.583960	0.038513	0.395118	0.065241	0.004927	0.002810	0.177838	0.000855	0.017358	0.009820	0.002748	0.027479
11-Apr-2025	0.097510	17.887800	28.033000	4.402200	62.794096	2.582860	0.038497	0.394950	0.065213	0.004925	0.002808	0.177762	0.000855	0.017351	0.009816	0.002747	0.027468
12-Apr-2025	0.097510	17.884100	28.027300	4.401300	62.781151	2.582330	0.038489	0.394869	0.065200	0.004924	0.002808	0.177726	0.000855	0.017347	0.009814	0.002746	0.027462
13-Apr-2025	0.097510	17.852300	27.977400	4.393470	62.669503	2.577730	0.038420	0.394166	0.065083	0.004915	0.002803	0.177409	0.000853	0.017316	0.009797	0.002741	0.027413
14-Apr-2025	0.097510	17.825600	27.935600	4.386900	62.575777	2.573880	0.038363	0.393577	0.064986	0.004908	0.002799	0.177144	0.000852	0.017290	0.009782	0.002737	0.027372
15-Apr-2025	0.097510	17.818300	27.924100	4.385090	62.550096	2.572820	0.038347	0.393415	0.064959	0.004906	0.002798	0.177071	0.000851	0.017283	0.009778	0.002736	0.027361
16-Apr-2025	0.097510	17.803600	27.901100	4.381490	62.498565	2.570710	0.038316	0.393091	0.064906	0.004902	0.002795	0.176926	0.000851	0.017269	0.009770	0.002734	0.027338
17-Apr-2025	0.097510	17.775700	27.857400	4.374620	62.400608	2.566680	0.038255	0.392475	0.064804	0.004894	0.002791	0.176648	0.000849	0.017242	0.009755	0.002730	0.027296
18-Apr-2025	0.097510	17.749200	27.815800	4.368090	62.307547	2.562840	0.038198	0.391889	0.064708	0.004887	0.002787	0.176385	0.000848	0.017216	0.009740	0.002725	0.027255
19-Apr-2025	0.097510	17.717200	27.765700	4.360220	62.195234	2.558230	0.038130	0.391183	0.064591	0.004878	0.002782	0.176067	0.000847	0.017185	0.009723	0.002721	0.027206
20-Apr-2025	0.097510	17.683300	27.712600	4.351880	62.076242	2.553330	0.038057	0.390435	0.064467	0.004869	0.002776	0.175730	0.000845	0.017152	0.009704	0.002715	0.027154
21-Apr-2025	0.097510	17.655500	27.669000	4.345030	61.978617	2.549320	0.037997	0.389821	0.064366	0.004861	0.002772	0.175454	0.000844	0.017125	0.009689	0.002711	0.027111
22-Apr-2025	0.097510	17.626500	27.623600	4.337900	61.876843	2.545130	0.037934	0.389181	0.064260	0.004853	0.002767	0.175166	0.000842	0.017097	0.009673	0.002707	0.027066
23-Apr-2025	0.097510	17.595300	27.574600	4.330210	61.767269	2.540620	0.037867	0.388490	0.064146	0.004845	0.002763	0.174855	0.000841	0.017067	0.009656	0.002702	0.027018
24-Apr-2025	0.097510	17.567600	27.531200	4.323400	61.670058	2.536630	0.037808	0.387880	0.064046	0.004837	0.002758	0.174580	0.000839	0.017040	0.009641	0.002698	0.026976
25-Apr-2025	0.097510	17.542200	27.491400	4.317150	61.580897	2.532960	0.037753	0.387319	0.063953	0.004830	0.002754	0.174328	0.000838	0.017015	0.009627	0.002694	0.026937
26-Apr-2025	0.097510	17.516900	27.451800	4.310930	61.492109	2.529310	0.037699	0.386761	0.063861	0.004823	0.002750	0.174076	0.000837	0.016991	0.009613	0.002690	0.026898
27-Apr-2025	0.097510	17.492600	27.413700	4.304940	61.406765	2.525800	0.037646	0.386224	0.063772	0.004816	0.002746	0.173835	0.000836	0.016967	0.009599	0.002686	0.026861
28-Apr-2025	0.097510	17.469400	27.377400	4.299240	61.325362	2.522450	0.037596	0.385712	0.063688	0.004810	0.002743	0.173605	0.000835	0.016945	0.009587	0.002683	0.026825
29-Apr-2025	0.097510	17.447100	27.342400	4.293750	61.247071	2.519230	0.037548	0.385220	0.063606	0.004804	0.002739	0.173383	0.000834	0.016923	0.009574	0.002679	0.026791
30-Apr-2025	0.097524	17.424100	27.306400	4.288090	61.166332	2.515910	0.037499	0.384712	0.063522	0.004798	0.002736	0.173154	0.000833	0.016901	0.009562	0.002676	0.026756
1-May-2025	0.098074	17.342600	27.178500	4.268020	60.880179	2.504130	0.037323	0.382911	0.063225	0.004775	0.002723	0.172344	0.000829	0.016822	0.009517	0.002663	0.026630
2-May-2025	0.101666	16.953300	26.568500	4.172210	59.513551	2.447920	0.036485	0.374316	0.061806	0.004668	0.002662	0.168475	0.000810	0.016444	0.009303	0.002603	0.026033
3-May-2025	0.105755	16.480000	25.826700	4.055730	57.852056	2.379580	0.035467	0.363866	0.060080	0.004538	0.002587	0.163772	0.000788	0.015985	0.009044	0.002531	0.025306
4-May-2025	0.110411	16.332300	25.595400	4.019400	57.333642	2.358260	0.035149	0.360606	0.059542	0.004497	0.002564	0.162305	0.000780	0.015842	0.008963	0.002508	0.025079
5-May-2025	0.114604	16.245500	25.459200	3.998020	57.028860	2.345720	0.034962	0.358688	0.059225	0.004473	0.002551	0.161441	0.000776	0.015757	0.008915	0.002495	0.024946
6-May-2025	0.119534	16.109700	25.246500	3.964620	56.552226	2.326120	0.034670	0.355691	0.058731	0.004436	0.002529	0.160092	0.000770	0.015626	0.008841	0.002474	0.024737
7-May-2025	0.123663	16.063500	25.174000	3.953230	56.389961	2.319440	0.034570	0.354669	0.058562	0.004423	0.002522	0.159632	0.000768	0.015581	0.008815	0.002467	0.024666
8-May-2025	0.127298	16.023000	25.110600	3.943270	56.247817	2.313600	0.034483	0.353776	0.058414	0.004412	0.002516	0.159230	0.000766	0.015542	0.008793	0.002460	0.024604
9-May-2025	0.130707	15.976100	25.037100	3.931740	56.083227	2.306830	0.034383	0.352741	0.058244	0.004399	0.002508	0.158765	0.000763	0.015496	0.008767	0.002453	0.024532
10-May-2025	0.139173	15.912000	24.936700	3.915960	55.858187	2.297570	0.034245	0.351326	0.058010	0.004381	0.002498	0.158128	0.000760	0.015434	0.008732	0.002443	0.024434
11-May-2025	0.142046	15.849400	24.838500	3.900540	55.638376	2.288520	0.034110	0.349942	0.057781	0.004364	0.002488	0.157505	0.000757	0.015373	0.008698	0.002434	0.024338
12-May-2025	0.145033	15.772500	24.718100	3.881640	55.368526	2.277430	0.033944	0.348246	0.057501	0.004343	0.002476	0.156742	0.000754	0.015299	0.008655	0.002422	0.024220
13-May-2025	0.156240	15.674200	24.563900	3.857430	55.023374	2.263230	0.033733	0.346074	0.057143	0.004316	0.002461	0.155764	0.000749	0.015203	0.008601	0.002407	0.024068
14-May-2025	0.164048	15.577200	24.412000	3.833580	54.682951	2.249230	0.033524	0.343934	0.056790	0.004289	0.002446	0.154801	0.000744	0.015109	0.008548	0.002392	0.023920
15-May-2025	0.168854	15.467800	24.240500	3.806640	54.298840	2.233430	0.033289	0.341517	0.056391	0.004259	0.002429	0.153713	0.000739	0.015003	0.008488	0.002375	0.023752
16-May-2025	0.187815	15.366100	24.081200	3.781620	53.941863	2.218750	0.033070	0.339273	0.056020	0.004231	0.002413	0.152703	0.000734	0.014905	0.008432	0.002360	0.023595
17-May-2025	0.197502	15.231200	23.869600	3.748410	53.468259	2.199250	0.032779	0.336292	0.055528	0.004194	0.002391	0.151362	0.000728	0.014774	0.008358	0.002339	0.023388
18-May-2025	0.200174	15.112100	23.683100	3.719110	53.050209	2.182070	0.032523	0.333664	0.055094	0.004161	0.002373	0.150179	0.000722	0.014658	0.008293	0.002321	0.023205
19-May-2025	0.204794	14.948600	23.426800	3.678880	52.476282	2.158450	0.032171	0.330053	0.054498	0.004116	0.002347	0.148554	0.000714	0.014500	0.008203	0.002295	0.022954
20-May-2025	0.213781	14.605700	22.889300	3.594500	51.272584	2.108920	0.031433	0.322480	0.053249	0.004022	0.002293	0.145148	0.000698	0.014167	0.008015	0.002243	0.022428
21-May-2025	0.233035	14.235500	22.309100	3.503410	49.973086	2.055450	0.030636	0.314303	0.051900	0.003920	0.002235	0.141470	0.000680	0.013808	0.007812	0.002186	0.021859
22-May-2025	0.252861	14.025800	21.980500	3.451820	49.237017	2.025170	0.030185	0.309673	0.051136	0.003862	0.002202	0.139387	0.000670	0.013605	0.007697	0.002154	0.021537
23-May-2025	0.274361	13.695200	21.462200	3.370520	48.076716	1.977400	0.029473	0.302370	0.049934	0.003771	0.002150	0.136106	0.000654	0.013284	0.007515	0.002103	0.021029
24-May-2025	0.285592	13.328500	20.887400	3.280290	46.789499	1.924420	0.028683	0.294269	0.048598	0.003670	0.002093	0.132463	0.000637	0.012929	0.007314	0.002047	0.020466
25-May-2025	0.298347	13.005100	20.380500	3.200740	45.654382	1.877700	0.027987	0.287127	0.047420	0.003581	0.002042	0.129253	0.000621	0.012615	0.007137	0.001997	0.019970
26-May-2025	0.314612	12.790100	20.043400	3.147850	44.899726	1.846630	0.027524	0.282377	0.046637	0.003521	0.002008	0.127117	0.000611	0.012407	0.007019	0.001964	0.019639
27-May-2025	0.336401	12.501000	19.590300	3.076740	43.885012	1.804870	0.026902	0.275992	0.045585	0.003442	0.001963	0.124248	0.000597	0.012127	0.006860	0.001920	0.019195
28-May-2025	0.358390	12.383200	19.405500	3.047770	43.471567	1.787840	0.026648	0.273388	0.045157	0.003409	0.001945	0.123079	0.000592	0.012012	0.006795	0.001901	0.019014

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
29-May-2025	0.381126	12.249300	19.195400	3.014900	43.001860	1.768460	0.026360	0.270433	0.044670	0.003373	0.001924	0.121758	0.000585	0.011883	0.006722	0.001881	0.018809
30-May-2025	0.405171	12.172500	19.075000	2.996000	42.732261	1.757360	0.026194	0.268733	0.044390	0.003351	0.001912	0.120993	0.000582	0.011808	0.006680	0.001869	0.018691
31-May-2025	0.421619	12.122400	18.996500	2.983670	42.556386	1.750120	0.026086	0.267624	0.044209	0.003338	0.001904	0.120494	0.000579	0.011760	0.006652	0.001861	0.018614
1-Jun-2025	0.456662	12.032300	18.855000	2.961610	42.240563	1.737050	0.025892	0.265634	0.043883	0.003313	0.001890	0.119610	0.000575	0.011673	0.006603	0.001848	0.018475
2-Jun-2025	0.536522	11.867200	18.595100	2.921280	41.662229	1.713020	0.025536	0.261984	0.043292	0.003267	0.001865	0.117999	0.000567	0.011514	0.006512	0.001822	0.018221
3-Jun-2025	0.626133	11.702300	18.333800	2.881550	41.086866	1.688690	0.025181	0.258342	0.042734	0.003221	0.001840	0.116428	0.000559	0.011357	0.006421	0.001797	0.017969
4-Jun-2025	0.928043	11.520600	18.038000	2.840040	40.462223	1.660620	0.024788	0.254346	0.042240	0.003168	0.001818	0.114863	0.000550	0.011195	0.006320	0.001770	0.017696
5-Jun-2025	1.002976	11.304400	17.675400	2.793710	39.731585	1.625480	0.024319	0.249604	0.041807	0.003102	0.001797	0.113235	0.000538	0.011016	0.006198	0.001738	0.017375
6-Jun-2025	1.017185	11.092500	17.328200	2.745960	39.005836	1.592100	0.023856	0.244872	0.041322	0.003039	0.001772	0.111452	0.000527	0.010830	0.006079	0.001706	0.017057
7-Jun-2025	1.049483	10.861100	16.940400	2.696280	38.223448	1.554160	0.023348	0.239719	0.040984	0.002968	0.001753	0.109694	0.000515	0.010637	0.005948	0.001671	0.016713
8-Jun-2025	1.121240	10.644700	16.576900	2.650070	37.492804	1.518520	0.022874	0.234911	0.040567	0.002902	0.001734	0.108071	0.000503	0.010458	0.005826	0.001639	0.016391
9-Jun-2025	1.321196	10.498600	16.325600	2.621510	37.010382	1.493560	0.022552	0.231647	0.040242	0.002855	0.001721	0.107168	0.000495	0.010349	0.005742	0.001618	0.016176
10-Jun-2025	1.608553	10.331000	16.040800	2.585660	36.444255	1.464980	0.022174	0.227804	0.039951	0.002802	0.001705	0.105901	0.000486	0.010210	0.005647	0.001593	0.015925
11-Jun-2025	1.855006	10.203500	15.823800	2.559240	36.017090	1.443350	0.021890	0.224901	0.039923	0.002762	0.001698	0.105002	0.000479	0.010109	0.005575	0.001574	0.015736
12-Jun-2025	2.049176	10.030400	15.527900	2.524540	35.441965	1.413710	0.021509	0.221032	0.039821	0.002707	0.001690	0.103889	0.000470	0.009976	0.005476	0.001548	0.015481
13-Jun-2025	2.237344	9.849560	15.221000	2.485940	34.831452	1.382990	0.021089	0.216644	0.039668	0.002650	0.001680	0.102783	0.000460	0.009826	0.005373	0.001521	0.015206
14-Jun-2025	2.408805	9.704730	14.971900	2.456610	34.349031	1.357950	0.020765	0.213314	0.039538	0.002604	0.001671	0.101778	0.000451	0.009713	0.005291	0.001499	0.014992
15-Jun-2025	2.478528	9.571090	14.730700	2.432870	33.917570	1.333460	0.020486	0.210531	0.039335	0.002559	0.001657	0.100928	0.000444	0.009625	0.005213	0.001480	0.014805
16-Jun-2025	2.484926	9.416290	14.476600	2.397850	33.386822	1.308200	0.020117	0.206562	0.039098	0.002512	0.001644	0.099668	0.000435	0.009488	0.005126	0.001456	0.014563
17-Jun-2025	2.445637	9.278880	14.238300	2.370530	32.931206	1.284230	0.019816	0.203442	0.038842	0.002468	0.001635	0.098860	0.000428	0.009384	0.005047	0.001436	0.014362
18-Jun-2025	2.415573	9.150650	14.017000	2.344500	32.503824	1.262000	0.019529	0.200384	0.038600	0.002428	0.001624	0.098069	0.000420	0.009286	0.004974	0.001417	0.014170
19-Jun-2025	2.387613	8.983330	13.721800	2.312640	31.954827	1.232110	0.019170	0.196732	0.038412	0.002374	0.001614	0.097026	0.000411	0.009165	0.004878	0.001393	0.013929
20-Jun-2025	2.338437	8.799050	13.402800	2.275590	31.342107	1.200020	0.018760	0.192454	0.038254	0.002316	0.001603	0.096206	0.000400	0.009025	0.004773	0.001365	0.013655
21-Jun-2025	2.315080	8.618920	13.087500	2.240930	30.749593	1.168220	0.018368	0.188345	0.038095	0.002259	0.001593	0.095303	0.000390	0.008901	0.004669	0.001339	0.013390
22-Jun-2025	2.330698	8.493400	12.870100	2.214870	30.328854	1.146440	0.018090	0.185390	0.037916	0.002220	0.001582	0.094430	0.000383	0.008797	0.004598	0.001320	0.013202
23-Jun-2025	2.397236	8.346960	12.613500	2.186110	29.844760	1.120690	0.017775	0.182045	0.037835	0.002175	0.001574	0.093708	0.000375	0.008695	0.004514	0.001299	0.012986
24-Jun-2025	2.563456	8.198810	12.357200	2.157910	29.358702	1.094980	0.017444	0.178597	0.037805	0.002129	0.001565	0.092893	0.000366	0.008590	0.004429	0.001276	0.012762
25-Jun-2025	2.841380	8.076850	12.142500	2.132260	28.948541	1.073430	0.017185	0.175852	0.037670	0.002091	0.001556	0.092074	0.000359	0.008489	0.004359	0.001258	0.012584
26-Jun-2025	3.187795	7.955040	11.928600	2.108330	28.545838	1.051970	0.016924	0.173110	0.037428	0.002054	0.001550	0.091408	0.000352	0.008400	0.004290	0.001240	0.012403
27-Jun-2025	3.493018	7.827490	11.702600	2.083930	28.126866	1.029240	0.016656	0.170290	0.037268	0.002014	0.001542	0.090715	0.000345	0.008310	0.004216	0.001222	0.012217
28-Jun-2025	3.917407	7.653020	11.400900	2.047600	27.541608	0.999339	0.016278	0.166229	0.036998	0.001965	0.001529	0.089826	0.000335	0.008177	0.004118	0.001195	0.011947
29-Jun-2025	4.204024	7.508010	11.147500	2.018330	27.058984	0.974226	0.015976	0.162964	0.036751	0.001923	0.001518	0.089138	0.000327	0.008070	0.004035	0.001173	0.011728
30-Jun-2025	4.629887	7.347220	10.861500	1.988010	26.532634	0.946049	0.015692	0.159586	0.036557	0.001879	0.001507	0.088506	0.000317	0.007969	0.003943	0.001149	0.011494
1-Jul-2025	5.281077	6.359990	9.134920	1.792850	23.263851	0.774459	0.013546	0.138228	0.034270	0.001592	0.001427	0.083468	0.000261	0.007218	0.003378	0.001000	0.010004
2-Jul-2025	6.093569	6.200570	8.886910	1.747590	22.679399	0.750628	0.013111	0.133835	0.033677	0.001552	0.001398	0.081885	0.000254	0.007081	0.003297	0.000976	0.009758
3-Jul-2025	6.903591	6.332630	9.134480	1.757880	23.051527	0.777185	0.013346	0.136292	0.033890	0.001606	0.001391	0.082441	0.000263	0.007198	0.003387	0.000996	0.009958
4-Jul-2025	7.130960	6.104900	8.714830	1.718500	22.320718	0.737927	0.012999	0.133123	0.033480	0.001562	0.001381	0.082699	0.000249	0.007044	0.003255	0.000960	0.009601
5-Jul-2025	7.354216	6.207730	8.900320	1.733290	22.638390	0.757325	0.013209	0.135334	0.033607	0.001601	0.001382	0.083245	0.000255	0.007127	0.003318	0.000975	0.009753
6-Jul-2025	7.493769	6.255630	8.986990	1.740280	22.786781	0.766679	0.013316	0.136496	0.033619	0.001621	0.001382	0.083593	0.000258	0.007163	0.003348	0.000982	0.009822
7-Jul-2025	7.912675	6.302160	9.074690	1.747720	22.933604	0.775442	0.013394	0.137297	0.033598	0.001636	0.001382	0.083671	0.000261	0.007190	0.003376	0.000989	0.009890
8-Jul-2025	9.437848	6.465390	9.372680	1.772660	23.443893	0.805307	0.013690	0.140251	0.033820	0.001686	0.001385	0.084141	0.000271	0.007311	0.003475	0.001014	0.010137
9-Jul-2025	10.163949	6.459190	9.364990	1.773220	23.430717	0.804111	0.013662	0.139960	0.033689	0.001682	0.001385	0.084004	0.000271	0.007293	0.003469	0.001013	0.010126
10-Jul-2025	10.059399	6.481360	9.406730	1.778010	23.505801	0.807980	0.013690	0.140198	0.033639	0.001689	0.001385	0.084049	0.000272	0.007299	0.003480	0.001016	0.010157
11-Jul-2025	10.564879	6.441310	9.339890	1.774150	23.389901	0.800468	0.013588	0.139210	0.033431	0.001673	0.001384	0.083665	0.000270	0.007249	0.003452	0.001010	0.010097
12-Jul-2025	11.173532	6.461660	9.373440	1.775570	23.446562	0.804164	0.013635	0.139662	0.033532	0.001680	0.001385	0.083827	0.000271	0.007277	0.003467	0.001013	0.010127
13-Jul-2025	12.537766	6.609930	9.644670	1.800000	23.917395	0.831107	0.013900	0.142317	0.033667	0.001726	0.001388	0.084286	0.000280	0.007380	0.003555	0.001035	0.010350
14-Jul-2025	12.707162	6.666870	9.752880	1.811560	24.107178	0.841226	0.013980	0.143134	0.033591	0.001740	0.001390	0.084292	0.000284	0.007402	0.003586	0.001044	0.010436
15-Jul-2025	13.779204	6.863860	10.109300	1.839940	24.715931	0.877325	0.014349	0.146804	0.033969	0.001802	0.001394	0.084983	0.000296	0.007563	0.003708	0.001073	0.010733
16-Jul-2025	14.458406	7.063610	10.474100	1.871960	25.346565	0.913721	0.014709	0.150412	0.034190	0.001863	0.001398	0.085564	0.000308	0.007705	0.003827	0.001104	0.011035
17-Jul-2025	14.890694	6.847220	10.082900	1.842770	24.686035	0.873792	0.014298	0.146330	0.033755	0.001796	0.001394	0.084881	0.000295	0.007520	0.003691	0.001071	0.010707
18-Jul-2025	15.529026	7.023030	10.400600	1.868180	25.229671	0.906027	0.014629	0.149633	0.034031	0.001851	0.001398	0.085492	0.000306	0.007663	0.003800	0.001097	0.010972
19-Jul-2025	16.150817	7.046380	10.441000	1.872950	25.307619	0.910002	0.014674	0.150074	0.034034	0.001860	0.001400	0.085686	0.000307	0.007679	0.003813	0.001100	0.011004

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
20-Jul-2025	17.098847	7.092580	10.525600	1.881390	25.457736	0.918354	0.014756	0.150892	0.034036	0.001875	0.001401	0.085860	0.000310	0.007707	0.003840	0.001107	0.011073
21-Jul-2025	16.476417	7.081170	10.505100	1.881410	25.429328	0.916000	0.014728	0.150614	0.033945	0.001872	0.001401	0.085847	0.000309	0.007690	0.003831	0.001105	0.011054
22-Jul-2025	16.641515	7.252690	10.816800	1.907720	25.965958	0.947283	0.015043	0.153760	0.034201	0.001924	0.001405	0.086394	0.000319	0.007821	0.003935	0.001131	0.011313
23-Jul-2025	17.031104	7.143690	10.624600	1.894690	25.640127	0.927055	0.014813	0.151495	0.033922	0.001887	0.001403	0.085902	0.000313	0.007712	0.003864	0.001115	0.011149
24-Jul-2025	17.468494	7.251610	10.822100	1.911910	25.980516	0.946600	0.015001	0.153363	0.033980	0.001919	0.001405	0.086120	0.000320	0.007788	0.003929	0.001131	0.011311
25-Jul-2025	17.749085	7.393780	11.076400	1.931090	26.414497	0.972651	0.015275	0.156065	0.034275	0.001966	0.001408	0.086702	0.000328	0.007913	0.004018	0.001152	0.011524
26-Jul-2025	17.744723	7.398390	11.087100	1.933860	26.437415	0.973291	0.015273	0.156059	0.034197	0.001966	0.001409	0.086666	0.000328	0.007906	0.004019	0.001153	0.011531
27-Jul-2025	17.818760	7.503380	11.279700	1.950950	26.769952	0.992396	0.015457	0.157902	0.034299	0.001997	0.001411	0.086966	0.000335	0.007977	0.004081	0.001169	0.011690
28-Jul-2025	18.115068	7.579970	11.420300	1.965310	27.020332	1.006180	0.015590	0.159247	0.034295	0.002021	0.001413	0.087182	0.000340	0.008022	0.004125	0.001180	0.011804
29-Jul-2025	18.353826	7.401120	11.094200	1.939430	26.467169	0.973247	0.015259	0.155943	0.034107	0.001966	0.001410	0.086773	0.000329	0.007895	0.004015	0.001153	0.011533
30-Jul-2025	19.062160	7.443900	11.168600	1.945190	26.597711	0.980849	0.015342	0.156689	0.034070	0.001982	0.001411	0.086955	0.000331	0.007921	0.004041	0.001159	0.011593
31-Jul-2025	18.639606	7.406160	11.098700	1.940080	26.482431	0.973755	0.015272	0.155997	0.033990	0.001971	0.001411	0.086905	0.000329	0.007891	0.004018	0.001153	0.011534
1-Aug-2025	18.623774	7.464870	11.207900	1.950400	26.671528	0.984304	0.015366	0.156943	0.034022	0.001987	0.001412	0.087005	0.000333	0.007926	0.004052	0.001162	0.011624
2-Aug-2025	16.957445	7.433000	11.149300	1.946950	26.577741	0.977781	0.015281	0.156049	0.033883	0.001978	0.001412	0.086950	0.000331	0.007896	0.004031	0.001157	0.011572
3-Aug-2025	15.349813	7.434900	11.152700	1.949040	26.591092	0.977518	0.015262	0.155830	0.033804	0.001980	0.001413	0.087089	0.000331	0.007889	0.004030	0.001157	0.011573
4-Aug-2025	15.046606	7.514090	11.297400	1.962620	26.844752	0.991487	0.015386	0.157046	0.033861	0.002004	0.001415	0.087253	0.000335	0.007942	0.004077	0.001169	0.011691
5-Aug-2025	14.901504	7.610470	11.474400	1.979020	27.152948	1.008520	0.015534	0.158494	0.033922	0.002033	0.001418	0.087512	0.000341	0.008005	0.004133	0.001184	0.011836
6-Aug-2025	15.016370	7.585850	11.428300	1.975060	27.075165	1.004050	0.015496	0.158127	0.033900	0.002026	0.001417	0.087483	0.000340	0.007990	0.004119	0.001180	0.011798
7-Aug-2025	15.023717	7.702320	11.650200	1.998850	27.463957	1.023320	0.015602	0.159084	0.033818	0.002056	0.001420	0.087554	0.000347	0.008039	0.004181	0.001198	0.011975
8-Aug-2025	15.289051	7.849750	11.917600	2.021300	27.924539	1.050240	0.015861	0.161645	0.033991	0.002101	0.001423	0.087974	0.000356	0.008149	0.004271	0.001220	0.012197
9-Aug-2025	15.613445	7.843970	11.901300	2.018290	27.897711	1.049830	0.015902	0.162104	0.034087	0.002103	0.001424	0.088183	0.000356	0.008163	0.004271	0.001219	0.012186
10-Aug-2025	15.784417	7.895980	12.002600	2.030830	28.079220	1.057780	0.015908	0.162061	0.033939	0.002115	0.001425	0.088126	0.000359	0.008172	0.004297	0.001227	0.012266
11-Aug-2025	16.166143	8.054190	12.285200	2.052870	28.565031	1.087390	0.016249	0.165525	0.034288	0.002167	0.001429	0.088831	0.000368	0.008309	0.004396	0.001250	0.012502
12-Aug-2025	15.263702	8.011340	12.210000	2.049700	28.444981	1.078420	0.016114	0.164108	0.034065	0.002153	0.001428	0.088652	0.000366	0.008257	0.004366	0.001244	0.012436
13-Aug-2025	14.756953	8.005220	12.198900	2.050460	28.432829	1.076710	0.016080	0.163736	0.033975	0.002152	0.001429	0.088681	0.000366	0.008244	0.004360	0.001242	0.012424
14-Aug-2025	14.968049	8.110650	12.390500	2.067380	28.765764	1.095650	0.016262	0.165548	0.034101	0.002185	0.001432	0.089026	0.000372	0.008321	0.004423	0.001258	0.012582
15-Aug-2025	14.251015	8.026800	12.238000	2.056270	28.510639	1.079700	0.016084	0.163733	0.033903	0.002159	0.001430	0.088836	0.000367	0.008250	0.004370	0.001245	0.012454
16-Aug-2025	13.754230	7.987540	12.165800	2.051920	28.394694	1.071850	0.015988	0.162737	0.033756	0.002148	0.001430	0.088734	0.000365	0.008213	0.004345	0.001239	0.012390
17-Aug-2025	12.839757	8.002530	12.193100	2.055750	28.447896	1.073970	0.015991	0.162730	0.033699	0.002153	0.001431	0.088815	0.000365	0.008217	0.004352	0.001241	0.012410
18-Aug-2025	12.847417	8.049730	12.279700	2.064220	28.600634	1.082100	0.016055	0.163337	0.033706	0.002167	0.001432	0.088950	0.000368	0.008246	0.004379	0.001248	0.012481
19-Aug-2025	12.371160	8.095400	12.363200	2.072910	28.750457	1.089780	0.016110	0.163854	0.033696	0.002182	0.001434	0.089148	0.000371	0.008272	0.004405	0.001255	0.012548
20-Aug-2025	11.993251	8.083200	12.341800	2.071810	28.715464	1.087230	0.016072	0.163450	0.033628	0.002177	0.001434	0.089030	0.000370	0.008257	0.004397	0.001253	0.012528
21-Aug-2025	12.147234	8.300500	12.741200	2.107970	29.406969	1.125730	0.016401	0.166636	0.033761	0.002243	0.001438	0.089595	0.000384	0.008401	0.004525	0.001285	0.012852
22-Aug-2025	12.713900	8.231110	12.615500	2.100340	29.202282	1.111920	0.016224	0.164793	0.033548	0.002223	0.001437	0.089591	0.000380	0.008334	0.004479	0.001274	0.012743
23-Aug-2025	13.164881	8.473900	13.055700	2.137930	29.963324	1.156010	0.016663	0.169161	0.033873	0.002301	0.001443	0.090351	0.000394	0.008518	0.004627	0.001311	0.013108
24-Aug-2025	13.709589	8.454610	13.018600	2.134970	29.902968	1.152440	0.016640	0.168959	0.033879	0.002294	0.001443	0.090503	0.000393	0.008508	0.004615	0.001308	0.013081
25-Aug-2025	13.394326	8.367740	12.861300	2.123330	29.638120	1.135990	0.016456	0.167092	0.033680	0.002267	0.001442	0.090043	0.000388	0.008434	0.004561	0.001295	0.012949
26-Aug-2025	12.662717	8.358420	12.843300	2.123140	29.614065	1.133780	0.016423	0.166738	0.033623	0.002266	0.001442	0.090130	0.000387	0.008423	0.004554	0.001293	0.012933
27-Aug-2025	12.209785	8.475380	13.058600	2.142330	29.985139	1.154660	0.016607	0.168542	0.033723	0.002300	0.001445	0.090369	0.000394	0.008502	0.004623	0.001311	0.013111
28-Aug-2025	11.667368	8.453200	13.018400	2.139940	29.919913	1.150160	0.016547	0.167917	0.033628	0.002293	0.001445	0.090300	0.000393	0.008479	0.004608	0.001307	0.013075
29-Aug-2025	10.867147	8.510840	13.124900	2.150070	30.105556	1.160180	0.016625	0.168662	0.033644	0.002310	0.001446	0.090423	0.000397	0.008514	0.004642	0.001316	0.013162
30-Aug-2025	10.752915	8.662280	13.402700	2.173530	30.580310	1.187720	0.016887	0.171264	0.033838	0.002355	0.001449	0.090817	0.000406	0.008624	0.004733	0.001339	0.013391
31-Aug-2025	10.923838	8.633280	13.349400	2.170560	30.495666	1.181780	0.016814	0.170496	0.033746	0.002345	0.001449	0.090737	0.000404	0.008597	0.004714	0.001335	0.013346
1-Sep-2025	10.530902	8.663620	13.406000	2.176400	30.595474	1.186870	0.016844	0.170755	0.033719	0.002354	0.001450	0.090776	0.000406	0.008612	0.004731	0.001339	0.013391
2-Sep-2025	10.550421	8.890810	13.823000	2.210960	31.305086	1.228550	0.017245	0.174747	0.033994	0.002424	0.001454	0.091378	0.000420	0.008777	0.004869	0.001373	0.013734
3-Sep-2025	10.854962	8.757720	13.592000	2.189910	30.886076	1.205250	0.016975	0.172028	0.033607	0.002382	0.001447	0.090633	0.000412	0.008655	0.004787	0.001353	0.013530
4-Sep-2025	10.735217	8.637610	13.370200	2.171420	30.510020	1.183190	0.016767	0.169951	0.033441	0.002346	0.001445	0.090358	0.000405	0.008569	0.004714	0.001335	0.013346
5-Sep-2025	10.959357	8.687780	13.463500	2.178520	30.664532	1.192600	0.016852	0.170793	0.033488	0.002363	0.001445	0.090513	0.000408	0.008605	0.004745	0.001342	0.013420
6-Sep-2025	10.706743	8.745740	13.567000	2.187460	30.846073	1.203010	0.016957	0.171830	0.033561	0.002383	0.001446	0.090790	0.000412	0.008651	0.004781	0.001351	0.013505
7-Sep-2025	10.747623	8.721520	13.523300	2.183620	30.769783	1.198640	0.016910	0.171346	0.033507	0.002376	0.001445	0.090723	0.000410	0.008632	0.004766	0.001347	0.013467
8-Sep-2025	10.259792	8.803570	13.676700	2.196110	31.026095	1.213910	0.017050	0.172736	0.033567	0.002401	0.001446	0.090846	0.000415	0.008686	0.004816	0.001359	0.013591
9-Sep-2025	10.144995	8.661400	13.415600	2.174400	30.581695	1.187740	0.016787	0.170097	0.033344	0.002360	0.001443	0.090555	0.000407	0.008581	0.004729	0.001337	0.013373

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Sep-2025	10.532213	9.164280	14.335000	2.250820	32.152084	1.279880	0.017697	0.179185	0.034053	0.002513	0.001453	0.091934	0.000437	0.008956	0.005035	0.001413	0.014135
11-Sep-2025	10.091060	8.941390	13.932900	2.216680	31.454939	1.239510	0.017275	0.174948	0.033625	0.002447	0.001446	0.091255	0.000424	0.008779	0.004899	0.001379	0.013795
12-Sep-2025	9.577816	8.929180	13.912100	2.214840	31.416874	1.237370	0.017244	0.174620	0.033558	0.002445	0.001445	0.091227	0.000423	0.008766	0.004892	0.001377	0.013774
13-Sep-2025	9.753307	8.945300	13.946600	2.217190	31.466803	1.240590	0.017251	0.174645	0.033471	0.002451	0.001443	0.091142	0.000425	0.008766	0.004901	0.001380	0.013795
14-Sep-2025	9.527979	9.269250	14.536000	2.266390	32.478311	1.299780	0.017841	0.180536	0.033948	0.002551	0.001450	0.092204	0.000444	0.009013	0.005098	0.001428	0.014284
15-Sep-2025	8.040045	8.926170	13.912200	2.214150	31.406516	1.237190	0.017213	0.174264	0.033411	0.002446	0.001442	0.091123	0.000423	0.008751	0.004889	0.001377	0.013765
16-Sep-2025	7.605122	8.983620	14.018400	2.222690	31.585137	1.247840	0.017312	0.175243	0.033465	0.002465	0.001442	0.091277	0.000427	0.008791	0.004924	0.001385	0.013851
17-Sep-2025	7.458090	9.306640	14.608500	2.271720	32.593623	1.307030	0.017891	0.181001	0.033888	0.002566	0.001448	0.092277	0.000447	0.009032	0.005121	0.001434	0.014337
18-Sep-2025	7.101075	9.182210	14.386800	2.252380	32.203279	1.284730	0.017653	0.178624	0.033635	0.002527	0.001444	0.091752	0.000439	0.008929	0.005045	0.001415	0.014149
19-Sep-2025	6.685869	9.231270	14.479100	2.259600	32.355514	1.293960	0.017733	0.179403	0.033651	0.002543	0.001443	0.091830	0.000443	0.008960	0.005075	0.001422	0.014222
20-Sep-2025	6.288519	9.262820	14.536900	2.264360	32.453896	1.299740	0.017789	0.179963	0.033691	0.002553	0.001444	0.091912	0.000444	0.008984	0.005094	0.001427	0.014270
21-Sep-2025	6.158195	9.407300	14.800800	2.286180	32.904517	1.326180	0.018049	0.182554	0.033889	0.002597	0.001447	0.092321	0.000453	0.009092	0.005182	0.001449	0.014487
22-Sep-2025	5.891655	9.429110	14.860600	2.289360	32.972072	1.331680	0.018043	0.182503	0.033661	0.002598	0.001443	0.091815	0.000455	0.009070	0.005193	0.001452	0.014524
23-Sep-2025	5.959656	9.643030	15.238600	2.321640	33.639159	1.369860	0.018457	0.186621	0.034122	0.002666	0.001449	0.092711	0.000468	0.009255	0.005324	0.001484	0.014844
24-Sep-2025	5.760561	9.672550	15.296200	2.325910	33.730455	1.375570	0.018500	0.187048	0.034107	0.002675	0.001448	0.092682	0.000470	0.009270	0.005342	0.001489	0.014889
25-Sep-2025	4.963748	9.427130	14.850400	2.288500	32.963587	1.330800	0.018044	0.182450	0.033684	0.002602	0.001442	0.091976	0.000455	0.009081	0.005193	0.001451	0.014514
26-Sep-2025	4.208344	9.459090	14.909700	2.293100	33.062334	1.336870	0.018096	0.182952	0.033681	0.002615	0.001442	0.092144	0.000457	0.009102	0.005212	0.001456	0.014560
27-Sep-2025	3.850709	9.434060	14.871000	2.289120	32.983444	1.332820	0.018034	0.182336	0.033576	0.002605	0.001440	0.091898	0.000456	0.009071	0.005196	0.001452	0.014523
28-Sep-2025	3.786243	9.691060	15.336200	2.328060	33.785528	1.379550	0.018509	0.187075	0.033975	0.002684	0.001445	0.092683	0.000471	0.009271	0.005353	0.001491	0.014911
29-Sep-2025	3.333963	9.510390	15.010800	2.300300	33.220079	1.346830	0.018168	0.183660	0.033661	0.002629	0.001440	0.092063	0.000461	0.009128	0.005243	0.001464	0.014636
30-Sep-2025	3.340320	9.563920	15.117700	2.307790	33.384587	1.357420	0.018242	0.184361	0.033597	0.002645	0.001438	0.091963	0.000464	0.009151	0.005275	0.001472	0.014716
1-Oct-2025	3.361845	9.598950	15.183600	2.312670	33.492153	1.364100	0.018302	0.184953	0.033610	0.002656	0.001438	0.092046	0.000467	0.009175	0.005297	0.001477	0.014769
2-Oct-2025	3.443047	9.651390	15.271800	2.320970	33.657275	1.373120	0.018415	0.186069	0.033776	0.002674	0.001441	0.092409	0.000469	0.009227	0.005329	0.001485	0.014847
3-Oct-2025	3.049671	9.369140	14.758400	2.277430	32.773199	1.321800	0.017900	0.180930	0.033330	0.002590	0.001434	0.091617	0.000452	0.009013	0.005158	0.001442	0.014418
4-Oct-2025	2.820036	9.335800	14.696300	2.272460	32.669483	1.315620	0.017844	0.180368	0.033314	0.002580	0.001434	0.091565	0.000450	0.008990	0.005138	0.001437	0.014368
5-Oct-2025	2.802119	9.342150	14.708500	2.273250	32.688592	1.316850	0.017854	0.180464	0.033303	0.002582	0.001434	0.091538	0.000451	0.008994	0.005142	0.001438	0.014377
6-Oct-2025	2.746421	9.308740	14.647300	2.267930	32.583260	1.310890	0.017799	0.179918	0.033271	0.002573	0.001433	0.091512	0.000449	0.008971	0.005122	0.001433	0.014326
7-Oct-2025	2.542148	9.299160	14.631200	2.265900	32.550979	1.309350	0.017782	0.179756	0.033252	0.002569	0.001432	0.091469	0.000448	0.008963	0.005116	0.001431	0.014313
8-Oct-2025	2.337319	9.282320	14.599700	2.263420	32.498717	1.306250	0.017754	0.179471	0.033275	0.002565	0.001433	0.091381	0.000447	0.008951	0.005106	0.001429	0.014286
9-Oct-2025	2.114740	9.253190	14.546200	2.258810	32.406995	1.301020	0.017705	0.178991	0.033212	0.002557	0.001431	0.091320	0.000445	0.008930	0.005089	0.001424	0.014242
10-Oct-2025	1.884553	9.220840	14.487000	2.253570	32.304639	1.295250	0.017652	0.178461	0.033177	0.002547	0.001431	0.091246	0.000443	0.008907	0.005069	0.001419	0.014193
11-Oct-2025	1.928976	9.201060	14.451000	2.250330	32.241906	1.291750	0.017620	0.178149	0.033173	0.002541	0.001430	0.091202	0.000442	0.008893	0.005058	0.001416	0.014164
12-Oct-2025	1.630126	9.182150	14.417900	2.246800	32.180151	1.288590	0.017589	0.177838	0.033109	0.002535	0.001429	0.091153	0.000441	0.008879	0.005047	0.001414	0.014135
13-Oct-2025	1.068209	9.157140	14.371900	2.242860	32.101476	1.284090	0.017548	0.177430	0.033080	0.002528	0.001428	0.091068	0.000439	0.008861	0.005032	0.001410	0.014097
14-Oct-2025	0.601874	9.133420	14.328900	2.238930	32.026063	1.279920	0.017508	0.177040	0.033051	0.002521	0.001427	0.090992	0.000438	0.008844	0.005018	0.001406	0.014062
15-Oct-2025	0.152208	9.100060	14.267500	2.233670	31.921103	1.273910	0.017453	0.176489	0.033017	0.002513	0.001426	0.090943	0.000436	0.008820	0.004998	0.001401	0.014011
16-Oct-2025	0.173507	9.098200	14.263000	2.233710	31.916623	1.273420	0.017452	0.176484	0.033024	0.002512	0.001427	0.090988	0.000436	0.008820	0.004996	0.001401	0.014008
17-Oct-2025	0.173414	9.178560	14.386400	2.254260	32.201907	1.284300	0.017608	0.178058	0.033331	0.002534	0.001440	0.091852	0.000440	0.008901	0.005040	0.001413	0.014132
18-Oct-2025	0.181053	9.278210	14.536500	2.280630	32.559325	1.297380	0.017798	0.179984	0.033706	0.002564	0.001458	0.093081	0.000444	0.009002	0.005094	0.001428	0.014283
19-Oct-2025	0.189375	9.333840	14.624300	2.294120	32.753785	1.305240	0.017906	0.181076	0.033913	0.002579	0.001467	0.093598	0.000447	0.009055	0.005124	0.001437	0.014369
20-Oct-2025	0.197651	9.379780	14.697200	2.305120	32.913795	1.311800	0.017996	0.181988	0.034090	0.002590	0.001474	0.094018	0.000449	0.009100	0.005150	0.001444	0.014441
21-Oct-2025	0.206570	9.398820	14.731000	2.308590	32.975627	1.315010	0.018032	0.182357	0.034148	0.002594	0.001475	0.094012	0.000450	0.009115	0.005161	0.001447	0.014472
22-Oct-2025	0.210880	9.431420	14.781700	2.316700	33.090426	1.319520	0.018095	0.182995	0.034270	0.002603	0.001481	0.094346	0.000452	0.009147	0.005179	0.001452	0.014522
23-Oct-2025	0.219117	9.409610	14.747500	2.311360	33.013977	1.316460	0.018054	0.182573	0.034192	0.002597	0.001477	0.094129	0.000451	0.009126	0.005167	0.001449	0.014488
24-Oct-2025	0.224786	9.419650	14.763900	2.313590	33.048230	1.317970	0.018072	0.182760	0.034222	0.002600	0.001479	0.094207	0.000451	0.009135	0.005172	0.001450	0.014504
25-Oct-2025	0.226139	9.462840	14.831900	2.324130	33.199479	1.324050	0.018155	0.183594	0.034376	0.002612	0.001485	0.094635	0.000453	0.009177	0.005196	0.001457	0.014570
26-Oct-2025	0.227487	9.500130	14.890500	2.333220	33.330025	1.329300	0.018226	0.184313	0.034509	0.002622	0.001491	0.095004	0.000455	0.009213	0.005217	0.001463	0.014627
27-Oct-2025	0.228859	9.538410	14.950600	2.342600	33.464237	1.334670	0.018299	0.185055	0.034647	0.002633	0.001497	0.095384	0.000457	0.009250	0.005238	0.001469	0.014686
28-Oct-2025	0.229749	9.585100	15.024100	2.353960	33.627602	1.341250	0.018389	0.185958	0.034814	0.002645	0.001504	0.095840	0.000459	0.009295	0.005263	0.001476	0.014758
29-Oct-2025	0.230219	9.623710	15.084700	2.363420	33.762967	1.346660	0.018463	0.186707	0.034954	0.002656	0.001510	0.096223	0.000461	0.009332	0.005285	0.001482	0.014818
30-Oct-2025	0.230580	9.662080	15.144400	2.372980	33.898145	1.351970	0.018537	0.187458	0.035098	0.002667	0.001516	0.096617	0.000463	0.009370	0.005306	0.001488	0.014877
31-Oct-2025	0.230314	9.707250	15.214800	2.384230	34.057262	1.358220	0.018624	0.188341	0.035267	0.002679	0.001524	0.097082	0.000465	0.009414	0.005330	0.001495	0.014947

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Nov-2025	0.230522	9.755510	15.289300	2.396440	34.228048	1.364810	0.018718	0.189290	0.035453	0.002692	0.001532	0.097598	0.000467	0.009462	0.005357	0.001502	0.015021
2-Nov-2025	0.232083	9.816350	15.384100	2.411550	34.442189	1.373250	0.018835	0.190472	0.035676	0.002709	0.001542	0.098227	0.000470	0.009521	0.005390	0.001511	0.015115
3-Nov-2025	0.233806	9.695280	15.192700	2.382340	34.019590	1.356060	0.018603	0.188129	0.035244	0.002676	0.001523	0.097083	0.000464	0.009405	0.005323	0.001493	0.014928
4-Nov-2025	0.233714	9.732040	15.250400	2.394670	34.162155	1.361320	0.018673	0.188832	0.035401	0.002692	0.001533	0.097928	0.000466	0.009449	0.005343	0.001498	0.014983
5-Nov-2025	0.233436	9.776820	15.321900	2.401900	34.303744	1.367690	0.018758	0.189700	0.035530	0.002700	0.001538	0.098259	0.000468	0.009483	0.005368	0.001505	0.015053
6-Nov-2025	0.233673	9.827720	15.401400	2.414510	34.482769	1.374760	0.018856	0.190690	0.035718	0.002713	0.001544	0.098369	0.000471	0.009533	0.005396	0.001513	0.015132
7-Nov-2025	0.234548	9.883470	15.488500	2.428280	34.678682	1.382520	0.018963	0.191772	0.035921	0.002728	0.001552	0.098936	0.000473	0.009587	0.005427	0.001522	0.015218
8-Nov-2025	0.235213	9.943690	15.582600	2.443160	34.890327	1.390910	0.019079	0.192942	0.036141	0.002745	0.001562	0.099550	0.000476	0.009646	0.005460	0.001531	0.015310
9-Nov-2025	0.235702	10.004100	15.676900	2.458070	35.102570	1.399310	0.019195	0.194113	0.036362	0.002762	0.001572	0.100165	0.000479	0.009704	0.005493	0.001540	0.015403
10-Nov-2025	0.236112	10.063700	15.770200	2.472770	35.311926	1.407630	0.019309	0.195270	0.036579	0.002778	0.001581	0.100770	0.000482	0.009762	0.005525	0.001549	0.015495
11-Nov-2025	0.236369	10.119200	15.857100	2.486440	35.506802	1.415390	0.019416	0.196347	0.036781	0.002794	0.001590	0.101329	0.000484	0.009816	0.005556	0.001558	0.015580
12-Nov-2025	0.236532	10.168500	15.934400	2.498570	35.679856	1.422280	0.019510	0.197303	0.036960	0.002807	0.001597	0.101825	0.000487	0.009864	0.005583	0.001566	0.015656
13-Nov-2025	0.236695	10.218100	16.012100	2.510720	35.853741	1.429230	0.019605	0.198264	0.037139	0.002821	0.001605	0.102320	0.000489	0.009912	0.005610	0.001573	0.015732
14-Nov-2025	0.236991	10.277300	16.105000	2.525230	36.061315	1.437520	0.019719	0.199411	0.037353	0.002837	0.001614	0.102910	0.000492	0.009969	0.005643	0.001582	0.015824
15-Nov-2025	0.237137	10.335200	16.195800	2.539450	36.264450	1.445630	0.019830	0.200533	0.037563	0.002853	0.001624	0.103490	0.000495	0.010026	0.005675	0.001591	0.015913
16-Nov-2025	0.237350	10.390400	16.282300	2.553000	36.458083	1.453350	0.019935	0.201601	0.037761	0.002869	0.001632	0.104045	0.000497	0.010079	0.005705	0.001600	0.015998
17-Nov-2025	0.237459	10.443900	16.366200	2.566130	36.645742	1.460840	0.020038	0.202637	0.037954	0.002883	0.001641	0.104582	0.000500	0.010131	0.005734	0.001608	0.016080
18-Nov-2025	0.237607	10.493800	16.444500	2.578380	36.820787	1.467840	0.020133	0.203604	0.038135	0.002897	0.001648	0.105081	0.000502	0.010179	0.005762	0.001616	0.016157
19-Nov-2025	0.237709	10.544300	16.523600	2.590750	36.997826	1.474900	0.020230	0.204582	0.038317	0.002911	0.001656	0.105584	0.000505	0.010228	0.005789	0.001623	0.016234
20-Nov-2025	0.237786	10.587200	16.590900	2.601270	37.148268	1.480910	0.020312	0.205412	0.038472	0.002923	0.001663	0.106014	0.000507	0.010270	0.005813	0.001630	0.016300
21-Nov-2025	0.237634	10.640000	16.673700	2.614260	37.333603	1.488310	0.020414	0.206436	0.038663	0.002938	0.001671	0.106545	0.000509	0.010321	0.005842	0.001638	0.016382
22-Nov-2025	0.237415	10.694000	16.758400	2.627520	37.523045	1.495860	0.020517	0.207483	0.038858	0.002953	0.001680	0.107086	0.000512	0.010373	0.005872	0.001646	0.016465
23-Nov-2025	0.237571	10.749900	16.846000	2.641240	37.719127	1.503690	0.020624	0.208566	0.039061	0.002968	0.001688	0.107645	0.000515	0.010427	0.005902	0.001655	0.016551
24-Nov-2025	0.237578	10.698100	16.765000	2.628460	37.537154	1.496460	0.020525	0.207559	0.038871	0.002954	0.001680	0.107122	0.000512	0.010377	0.005874	0.001647	0.016471
25-Nov-2025	0.237585	10.738300	16.828000	2.638350	37.678260	1.502090	0.020602	0.208339	0.039017	0.002965	0.001687	0.107527	0.000514	0.010416	0.005896	0.001653	0.016533
26-Nov-2025	0.237372	10.781000	16.894800	2.648840	37.828080	1.508050	0.020684	0.209166	0.039172	0.002977	0.001693	0.107955	0.000516	0.010457	0.005919	0.001660	0.016599
27-Nov-2025	0.237064	10.826300	16.965800	2.659960	37.986986	1.514380	0.020770	0.210044	0.039336	0.002989	0.001700	0.108410	0.000518	0.010501	0.005944	0.001667	0.016668
28-Nov-2025	0.237236	10.874600	17.041500	2.671830	38.156472	1.521140	0.020863	0.210980	0.039511	0.003003	0.001708	0.108894	0.000521	0.010548	0.005971	0.001674	0.016743
29-Nov-2025	0.237117	10.922400	17.116600	2.683520	38.323968	1.527860	0.020955	0.211907	0.039684	0.003016	0.001715	0.109366	0.000523	0.010594	0.005997	0.001682	0.016816
30-Nov-2025	0.236279	10.946400	17.154300	2.689400	38.408110	1.531230	0.021001	0.212371	0.039770	0.003023	0.001719	0.109605	0.000524	0.010618	0.006010	0.001685	0.016853
1-Dec-2025	0.236419	10.988200	17.219800	2.699680	38.554818	1.537070	0.021081	0.213182	0.039922	0.003034	0.001726	0.110026	0.000526	0.010658	0.006033	0.001692	0.016918
2-Dec-2025	0.236791	11.034300	17.292000	2.711010	38.716586	1.543520	0.021169	0.214076	0.040089	0.003047	0.001733	0.110489	0.000528	0.010703	0.006059	0.001699	0.016989
3-Dec-2025	0.236577	11.079200	17.362100	2.722060	38.874205	1.549770	0.021255	0.214945	0.040252	0.003059	0.001740	0.110944	0.000530	0.010746	0.006083	0.001706	0.017057
4-Dec-2025	0.236429	11.123700	17.431900	2.733010	39.030414	1.556000	0.021340	0.215809	0.040413	0.003072	0.001747	0.111392	0.000533	0.010790	0.006108	0.001713	0.017126
5-Dec-2025	0.236478	11.166300	17.498700	2.743460	39.179819	1.561960	0.021422	0.216634	0.040567	0.003083	0.001754	0.111817	0.000535	0.010831	0.006131	0.001719	0.017192
6-Dec-2025	0.236348	11.232200	17.601900	2.759680	39.411166	1.571170	0.021549	0.217913	0.040807	0.003102	0.001764	0.112481	0.000538	0.010895	0.006167	0.001729	0.017293
7-Dec-2025	0.236102	11.298500	17.705700	2.775990	39.643881	1.580430	0.021676	0.219199	0.041048	0.003120	0.001774	0.113149	0.000541	0.010959	0.006204	0.001740	0.017395
8-Dec-2025	0.235545	11.361300	17.804100	2.791450	39.864357	1.589210	0.021796	0.220417	0.041276	0.003137	0.001784	0.113782	0.000544	0.011020	0.006238	0.001749	0.017492
9-Dec-2025	0.235665	11.421900	17.899000	2.806370	40.077116	1.597680	0.021912	0.221593	0.041496	0.003154	0.001794	0.114393	0.000547	0.011079	0.006271	0.001758	0.017585
10-Dec-2025	0.235725	11.497700	18.017600	2.825020	40.343189	1.608260	0.022058	0.223062	0.041772	0.003175	0.001806	0.115157	0.000550	0.011153	0.006313	0.001770	0.017702
11-Dec-2025	0.235299	11.099600	17.393700	2.728570	38.951952	1.552560	0.021294	0.215338	0.040332	0.003067	0.001746	0.111561	0.000531	0.010767	0.006094	0.001709	0.017089
12-Dec-2025	0.235209	11.181100	17.521400	2.747260	39.232423	1.563970	0.021450	0.216918	0.040620	0.003088	0.001756	0.111994	0.000535	0.010846	0.006139	0.001721	0.017214
13-Dec-2025	0.235566	11.083900	17.363000	2.725240	38.899037	1.549510	0.021264	0.215032	0.040283	0.003064	0.001743	0.111285	0.000530	0.010756	0.006085	0.001706	0.017062
14-Dec-2025	0.235460	11.159400	17.480100	2.744230	39.165761	1.559890	0.021409	0.216505	0.040565	0.003085	0.001756	0.112092	0.000534	0.010830	0.006126	0.001718	0.017178
15-Dec-2025	0.235271	11.218600	17.570600	2.759450	39.376259	1.567860	0.021524	0.217659	0.040789	0.003102	0.001766	0.112774	0.000537	0.010889	0.006158	0.001727	0.017269
16-Dec-2025	0.235403	11.237200	17.600300	2.763860	39.440864	1.570540	0.021559	0.218019	0.040854	0.003107	0.001768	0.112938	0.000538	0.010907	0.006168	0.001730	0.017298
17-Dec-2025	0.235285	11.313800	17.719100	2.783080	39.711282	1.581080	0.021706	0.219509	0.041138	0.003129	0.001781	0.113757	0.000541	0.010982	0.006210	0.001742	0.017415
18-Dec-2025	0.234889	11.401800	17.855200	2.805220	40.022191	1.593130	0.021876	0.221219	0.041465	0.003154	0.001796	0.114707	0.000545	0.011069	0.006258	0.001755	0.017550
19-Dec-2025	0.234901	11.434400	17.908200	2.812630	40.134107	1.597970	0.021938	0.221846	0.041575	0.003162	0.001800	0.114957	0.000547	0.011099	0.006276	0.001760	0.017601
20-Dec-2025	0.234956	11.499700	18.010600	2.828680	40.363255	1.607110	0.022063	0.223113	0.041812	0.003180	0.001810	0.115610	0.000550	0.011162	0.006312	0.001770	0.017702
21-Dec-2025	0.234865	11.595000	18.158600	2.852480	40.699228	1.620250	0.022246	0.224964	0.042163	0.003207	0.001826	0.116616	0.000555	0.011256	0.006364	0.001785	0.017848
22-Dec-2025	0.234723	11.650100	18.246200	2.865620	40.890923	1.628140	0.022351	0.226030	0.042358	0.003222	0.001834	0.117117	0.000557	0.011308	0.006395	0.001793	0.017933

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Dec-2025	0.234738	11.714100	18.346700	2.881330	41.115425	1.637110	0.022474	0.227272	0.042590	0.003239	0.001844	0.117754	0.000560	0.011370	0.006430	0.001803	0.018032
24-Dec-2025	0.234546	11.796000	18.474600	2.901600	41.403401	1.648500	0.022631	0.228862	0.042890	0.003262	0.001857	0.118594	0.000564	0.011450	0.006475	0.001816	0.018158
25-Dec-2025	0.234554	11.814000	18.504600	2.905460	41.464242	1.651270	0.022666	0.229207	0.042948	0.003266	0.001859	0.118702	0.000565	0.011466	0.006485	0.001819	0.018186
26-Dec-2025	0.234516	11.892200	18.626500	2.924840	41.739315	1.662120	0.022816	0.230724	0.043234	0.003288	0.001871	0.119509	0.000569	0.011542	0.006528	0.001831	0.018306
27-Dec-2025	0.234376	11.959500	18.731800	2.941450	41.975763	1.671520	0.022945	0.232031	0.043479	0.003307	0.001882	0.120191	0.000572	0.011608	0.006565	0.001841	0.018410
28-Dec-2025	0.234405	11.980900	18.766600	2.946290	42.049130	1.674690	0.022985	0.232441	0.043551	0.003312	0.001885	0.120353	0.000573	0.011628	0.006577	0.001844	0.018443
29-Dec-2025	0.234354	12.048900	18.872800	2.963110	42.288190	1.684150	0.023116	0.233761	0.043799	0.003331	0.001896	0.121049	0.000577	0.011694	0.006614	0.001855	0.018547
30-Dec-2025	0.234194	12.103800	18.958600	2.976660	42.481074	1.691800	0.023221	0.234826	0.043999	0.003346	0.001904	0.121607	0.000579	0.011747	0.006644	0.001863	0.018632
31-Dec-2025	0.234173	12.118800	18.983200	2.980000	42.532284	1.694050	0.023250	0.235114	0.044049	0.003350	0.001906	0.121713	0.000580	0.011761	0.006653	0.001866	0.018655
1-Jan-2026	0.234141	12.186700	19.089400	2.996750	42.770806	1.703520	0.023380	0.236431	0.044296	0.003369	0.001917	0.122401	0.000583	0.011827	0.006690	0.001876	0.018760
2-Jan-2026	0.234078	12.246600	19.183000	3.011580	42.981447	1.711860	0.023495	0.237595	0.044515	0.003386	0.001927	0.123016	0.000586	0.011885	0.006723	0.001885	0.018852
3-Jan-2026	0.233967	12.286300	19.245700	3.021170	43.120069	1.717480	0.023571	0.238363	0.044657	0.003397	0.001933	0.123393	0.000588	0.011923	0.006745	0.001891	0.018913
4-Jan-2026	0.234004	12.336400	19.324400	3.033450	43.295738	1.724510	0.023667	0.239335	0.044839	0.003410	0.001940	0.123890	0.000590	0.011972	0.006772	0.001899	0.018990
5-Jan-2026	0.233938	12.391800	19.410700	3.047220	43.490777	1.732200	0.023774	0.240411	0.045042	0.003426	0.001949	0.124465	0.000593	0.012026	0.006803	0.001908	0.019075
6-Jan-2026	0.233769	12.429700	19.470400	3.056440	43.623381	1.737530	0.023846	0.241145	0.045178	0.003436	0.001955	0.124834	0.000595	0.012063	0.006823	0.001913	0.019134
7-Jan-2026	0.233829	12.472500	19.537800	3.066830	43.773038	1.743580	0.023928	0.241975	0.045332	0.003448	0.001962	0.125246	0.000597	0.012104	0.006847	0.001920	0.019200
8-Jan-2026	0.233745	12.535000	19.635100	3.082370	43.993095	1.752230	0.024048	0.243188	0.045561	0.003465	0.001972	0.125897	0.000600	0.012165	0.006881	0.001930	0.019296
9-Jan-2026	0.233585	12.580100	19.705800	3.093470	44.151419	1.758540	0.024135	0.244063	0.045725	0.003478	0.001979	0.126351	0.000602	0.012209	0.006906	0.001937	0.019365
10-Jan-2026	0.233638	12.598000	19.734700	3.097570	44.212999	1.761160	0.024169	0.244407	0.045786	0.003482	0.001981	0.126493	0.000603	0.012225	0.006916	0.001939	0.019393
11-Jan-2026	0.233573	12.675700	19.855800	3.116880	44.486535	1.771940	0.024318	0.245917	0.046071	0.003504	0.001994	0.127299	0.000607	0.012301	0.006958	0.001951	0.019513
12-Jan-2026	0.233474	12.727100	19.936000	3.129640	44.667426	1.779080	0.024417	0.246915	0.046260	0.003519	0.002002	0.127830	0.000609	0.012351	0.006987	0.001959	0.019592
13-Jan-2026	0.233398	12.764300	19.994800	3.138640	44.797377	1.784350	0.024488	0.247635	0.046393	0.003529	0.002008	0.128185	0.000611	0.012387	0.007007	0.001965	0.019649
14-Jan-2026	0.233394	12.820600	20.082800	3.152470	44.994910	1.792200	0.024596	0.248726	0.046597	0.003544	0.002017	0.128750	0.000614	0.012442	0.007038	0.001974	0.019736
15-Jan-2026	0.233316	12.870500	20.160500	3.164890	45.170656	1.799110	0.024692	0.249696	0.046781	0.003558	0.002025	0.129271	0.000616	0.012490	0.007065	0.001981	0.019812
16-Jan-2026	0.233190	12.913800	20.228400	3.175540	45.322632	1.805170	0.024775	0.250536	0.046938	0.003570	0.002031	0.129706	0.000618	0.012533	0.007089	0.001988	0.019879
17-Jan-2026	0.233221	12.949800	20.285500	3.184190	45.448145	1.810300	0.024844	0.251233	0.047066	0.003580	0.002037	0.130041	0.000620	0.012567	0.007109	0.001993	0.019934
18-Jan-2026	0.233122	13.022000	20.398000	3.202140	45.702347	1.820300	0.024982	0.252635	0.047331	0.003600	0.002048	0.130792	0.000623	0.012638	0.007148	0.002005	0.020045
19-Jan-2026	0.232978	13.073900	20.479000	3.214980	45.884816	1.827520	0.025082	0.253642	0.047521	0.003614	0.002057	0.131323	0.000626	0.012688	0.007177	0.002013	0.020125
20-Jan-2026	0.232927	13.114200	20.542600	3.224770	46.025760	1.833220	0.025159	0.254424	0.047666	0.003626	0.002063	0.131711	0.000628	0.012727	0.007199	0.002019	0.020187
21-Jan-2026	0.232886	13.182100	20.648900	3.241460	46.264036	1.842700	0.025289	0.255740	0.047912	0.003644	0.002074	0.132394	0.000631	0.012793	0.007236	0.002029	0.020292
22-Jan-2026	0.232838	13.237900	20.735800	3.255340	46.460526	1.850430	0.025397	0.256825	0.048117	0.003660	0.002083	0.132975	0.000633	0.012847	0.007267	0.002038	0.020378
23-Jan-2026	0.232780	13.278200	20.799200	3.265130	46.601471	1.856110	0.025474	0.257605	0.048262	0.003671	0.002089	0.133365	0.000635	0.012886	0.007289	0.002044	0.020440
24-Jan-2026	0.232750	13.316800	20.860400	3.274450	46.736235	1.861600	0.025548	0.258353	0.048400	0.003681	0.002095	0.133729	0.000637	0.012923	0.007310	0.002050	0.020499
25-Jan-2026	0.232767	13.365300	20.936700	3.286230	46.905849	1.868430	0.025641	0.259291	0.048574	0.003695	0.002102	0.134198	0.000640	0.012970	0.007337	0.002057	0.020574
26-Jan-2026	0.232773	13.416700	21.017600	3.298750	47.085752	1.875680	0.025739	0.260288	0.048759	0.003709	0.002110	0.134699	0.000642	0.013019	0.007365	0.002065	0.020653
27-Jan-2026	0.232755	13.476900	21.112200	3.313490	47.296771	1.884130	0.025855	0.261456	0.048977	0.003725	0.002119	0.135295	0.000645	0.013078	0.007398	0.002075	0.020746
28-Jan-2026	0.232730	13.534000	21.201800	3.327470	47.496919	1.892130	0.025964	0.262562	0.049184	0.003741	0.002128	0.135861	0.000648	0.013133	0.007430	0.002083	0.020834
29-Jan-2026	0.232699	13.588900	21.287900	3.340900	47.689310	1.899830	0.026069	0.263626	0.049382	0.003756	0.002137	0.136404	0.000650	0.013186	0.007460	0.002092	0.020919
30-Jan-2026	0.232669	13.668100	21.412100	3.360350	47.967167	1.910920	0.026221	0.265163	0.049670	0.003778	0.002149	0.137195	0.000654	0.013263	0.007503	0.002104	0.021041
31-Jan-2026	0.232651	13.756800	21.552000	3.381880	48.277311	1.923450	0.026391	0.266884	0.049990	0.003802	0.002163	0.138046	0.000658	0.013348	0.007552	0.002118	0.021177
1-Feb-2026	0.232647	13.896200	21.770300	3.416150	48.766517	1.942930	0.026659	0.269588	0.050497	0.003841	0.002185	0.139446	0.000665	0.013483	0.007629	0.002139	0.021392
2-Feb-2026	0.232649	14.036700	21.990500	3.450700	49.259623	1.962580	0.026928	0.272315	0.051007	0.003879	0.002207	0.140857	0.000672	0.013620	0.007706	0.002161	0.021608
3-Feb-2026	0.232653	14.169000	22.197700	3.483200	49.723811	1.981080	0.027182	0.274880	0.051488	0.003916	0.002228	0.142183	0.000678	0.013748	0.007779	0.002181	0.021812
4-Feb-2026	0.232656	14.295000	22.395200	3.514170	50.165967	1.998700	0.027424	0.277324	0.051945	0.003951	0.002247	0.143446	0.000684	0.013870	0.007848	0.002201	0.022006
5-Feb-2026	0.232659	14.408100	22.572500	3.541970	50.562858	2.014530	0.027641	0.279519	0.052356	0.003982	0.002265	0.144579	0.000690	0.013980	0.007910	0.002218	0.022180
6-Feb-2026	0.232659	14.503000	22.721100	3.565270	50.895773	2.027800	0.027823	0.281359	0.052701	0.004008	0.002280	0.145529	0.000694	0.014072	0.007962	0.002233	0.022326
7-Feb-2026	0.232661	14.592500	22.861400	3.587250	51.209768	2.040320	0.027994	0.283094	0.053025	0.004033	0.002294	0.146425	0.000698	0.014159	0.008011	0.002246	0.022464
8-Feb-2026	0.232660	14.679100	22.997200	3.608540	51.513680	2.052440	0.028161	0.284776	0.053340	0.004057	0.002308	0.147292	0.000703	0.014243	0.008059	0.002260	0.022597
9-Feb-2026	0.232654	14.752800	23.112800	3.626640	51.772245	2.062760	0.028302	0.286205	0.053608	0.004077	0.002319	0.148030	0.000706	0.014314	0.008099	0.002271	0.022711
10-Feb-2026	0.232646	14.825400	23.226600	3.644460	52.026910	2.072920	0.028441	0.287613	0.053871	0.004097	0.002331	0.148756	0.000710	0.014385	0.008139	0.002282	0.022823
11-Feb-2026	0.232637	14.942000	23.409300	3.673110	52.436041	2.089230	0.028665	0.289875	0.054294	0.004130	0.002349	0.149924	0.000715	0.014498	0.008203	0.002300	0.023002
12-Feb-2026	0.232631	15.080800	23.626800	3.707220	52.923090	2.108640	0.028931	0.292567	0.054798	0.004168	0.002371	0.151316	0.000722	0.014632	0.008279	0.002322	0.023216

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Feb-2026	0.232627	15.218800	23.842900	3.741120	53.407276	2.127930	0.029196	0.295243	0.055299	0.004206	0.002392	0.152698	0.000728	0.014766	0.008355	0.002343	0.023428
14-Feb-2026	0.232625	15.331100	24.018900	3.768720	53.801346	2.143640	0.029411	0.297422	0.055707	0.004237	0.002410	0.153824	0.000734	0.014875	0.008417	0.002360	0.023601
15-Feb-2026	0.232623	15.453200	24.210200	3.798720	54.229769	2.160720	0.029645	0.299791	0.056151	0.004271	0.002429	0.155048	0.000740	0.014994	0.008484	0.002379	0.023789
16-Feb-2026	0.232620	15.682100	24.568800	3.855020	55.033176	2.192720	0.030085	0.304232	0.056983	0.004334	0.002465	0.157347	0.000751	0.015216	0.008609	0.002414	0.024141
17-Feb-2026	0.232618	15.901800	24.913000	3.909020	55.804139	2.223440	0.030506	0.308494	0.057781	0.004395	0.002500	0.159551	0.000761	0.015429	0.008730	0.002448	0.024480
18-Feb-2026	0.232616	16.129400	25.269600	3.964960	56.602817	2.255260	0.030943	0.312909	0.058608	0.004458	0.002536	0.161834	0.000772	0.015650	0.008855	0.002483	0.024830
19-Feb-2026	0.232615	16.337800	25.596100	4.016200	57.334198	2.284400	0.031342	0.316952	0.059365	0.004515	0.002568	0.163925	0.000782	0.015852	0.008969	0.002515	0.025151
20-Feb-2026	0.232616	16.538400	25.910300	4.065490	58.038073	2.312450	0.031727	0.320843	0.060094	0.004571	0.002600	0.165937	0.000792	0.016047	0.009079	0.002546	0.025459
21-Feb-2026	0.232616	16.709200	26.178000	4.107480	58.637475	2.336330	0.032055	0.324157	0.060715	0.004618	0.002627	0.167651	0.000800	0.016212	0.009173	0.002572	0.025722
22-Feb-2026	0.232611	15.727200	24.639000	3.866200	55.191830	2.198970	0.030171	0.305106	0.057148	0.004347	0.002472	0.157815	0.000753	0.015260	0.008634	0.002421	0.024211
23-Feb-2026	0.232611	15.860200	24.847500	3.898910	55.658631	2.217580	0.030426	0.307687	0.057631	0.004383	0.002493	0.159149	0.000759	0.015389	0.008707	0.002442	0.024415
24-Feb-2026	0.232610	15.999100	25.065200	3.933050	56.146053	2.237000	0.030693	0.310382	0.058136	0.004422	0.002515	0.160543	0.000766	0.015524	0.008783	0.002463	0.024629
25-Feb-2026	0.232610	16.140300	25.286300	3.967750	56.641524	2.256740	0.030964	0.313121	0.058649	0.004461	0.002537	0.161959	0.000773	0.015661	0.008861	0.002485	0.024847
26-Feb-2026	0.232613	16.282100	25.508400	4.002590	57.139069	2.276560	0.031236	0.315870	0.059164	0.004500	0.002560	0.163381	0.000779	0.015798	0.008939	0.002506	0.025065
27-Feb-2026	0.232613	16.435600	25.748900	4.040330	57.677772	2.298030	0.031530	0.318849	0.059721	0.004542	0.002584	0.164921	0.000787	0.015947	0.009023	0.002530	0.025301
28-Feb-2026	0.232613	16.598700	26.004500	4.080440	58.250206	2.320840	0.031843	0.322014	0.060314	0.004588	0.002609	0.166559	0.000794	0.016105	0.009113	0.002555	0.025552
1-Mar-2026	0.232612	16.764600	26.264400	4.121220	58.832390	2.344030	0.032161	0.325232	0.060917	0.004633	0.002636	0.168223	0.000802	0.016266	0.009204	0.002581	0.025808
2-Mar-2026	0.232612	16.930800	26.524800	4.162070	59.415612	2.367270	0.032480	0.328456	0.061521	0.004679	0.002662	0.169890	0.000810	0.016428	0.009295	0.002606	0.026063
3-Mar-2026	0.232612	17.111500	26.807900	4.206480	60.049700	2.392530	0.032827	0.331961	0.062177	0.004729	0.002690	0.171703	0.000819	0.016603	0.009394	0.002634	0.026342
4-Mar-2026	0.232612	17.312700	27.123100	4.255950	60.755814	2.420660	0.033213	0.335865	0.062909	0.004785	0.002722	0.173722	0.000829	0.016798	0.009505	0.002665	0.026651
5-Mar-2026	0.232612	17.507300	27.428000	4.303790	61.438735	2.447880	0.033586	0.339640	0.063616	0.004839	0.002752	0.175675	0.000838	0.016987	0.009611	0.002695	0.026951
6-Mar-2026	0.232612	17.701800	27.732700	4.351610	62.121325	2.475070	0.033959	0.343414	0.064323	0.004892	0.002783	0.177627	0.000847	0.017176	0.009718	0.002725	0.027250
7-Mar-2026	0.232613	17.903100	28.048000	4.401080	62.827688	2.503210	0.034345	0.347318	0.065054	0.004948	0.002815	0.179646	0.000857	0.017371	0.009829	0.002756	0.027560
8-Mar-2026	0.232613	18.107800	28.368800	4.451420	63.546124	2.531840	0.034738	0.351290	0.065798	0.005005	0.002847	0.181701	0.000867	0.017570	0.009941	0.002788	0.027875
9-Mar-2026	0.232613	18.328100	28.713900	4.505560	64.319162	2.562640	0.035161	0.355564	0.066598	0.005066	0.002881	0.183911	0.000877	0.017783	0.010062	0.002821	0.028214
10-Mar-2026	0.232613	18.556100	29.071100	4.561620	65.119333	2.594520	0.035598	0.359987	0.067427	0.005129	0.002917	0.186199	0.000888	0.018005	0.010187	0.002857	0.028565
11-Mar-2026	0.232613	18.778400	29.419300	4.616250	65.899382	2.625600	0.036024	0.364298	0.068234	0.005190	0.002952	0.188429	0.000899	0.018220	0.010309	0.002891	0.028908
12-Mar-2026	0.232614	18.998500	29.764200	4.670360	66.671797	2.656380	0.036447	0.368569	0.069034	0.005251	0.002987	0.190638	0.000909	0.018434	0.010430	0.002925	0.029246
13-Mar-2026	0.232623	15.545400	24.355100	3.821260	54.552812	2.173670	0.029822	0.301577	0.056484	0.004296	0.002444	0.155958	0.000744	0.015083	0.008534	0.002393	0.023931
14-Mar-2026	0.232623	15.619200	24.470700	3.839400	54.811792	2.183990	0.029964	0.303009	0.056752	0.004317	0.002455	0.156698	0.000748	0.015154	0.008575	0.002404	0.024045
15-Mar-2026	0.232623	15.686100	24.575500	3.855850	55.046582	2.193340	0.030092	0.304307	0.056995	0.004335	0.002466	0.157370	0.000751	0.015219	0.008612	0.002415	0.024148
16-Mar-2026	0.232624	15.803400	24.759400	3.884680	55.458202	2.209750	0.030317	0.306583	0.057421	0.004368	0.002484	0.158546	0.000756	0.015333	0.008676	0.002433	0.024328
17-Mar-2026	0.232624	15.929200	24.956400	3.915590	55.899612	2.227340	0.030558	0.309022	0.057878	0.004402	0.002504	0.159807	0.000762	0.015455	0.008745	0.002452	0.024522
18-Mar-2026	0.232624	16.070200	25.177300	3.950250	56.394419	2.247050	0.030829	0.311758	0.058390	0.004441	0.002526	0.161222	0.000769	0.015592	0.008823	0.002474	0.024739
19-Mar-2026	0.232624	16.216300	25.406200	3.986160	56.907108	2.267480	0.031109	0.314592	0.058921	0.004482	0.002549	0.162687	0.000776	0.015734	0.008903	0.002496	0.024964
20-Mar-2026	0.232624	16.364200	25.637900	4.022510	57.426104	2.288160	0.031393	0.317461	0.059458	0.004522	0.002572	0.164171	0.000783	0.015877	0.008984	0.002519	0.025191
21-Mar-2026	0.232624	16.505900	25.860000	4.057360	57.923441	2.307990	0.031665	0.320211	0.059973	0.004562	0.002595	0.165593	0.000790	0.016015	0.009062	0.002541	0.025410
22-Mar-2026	0.232624	16.639200	26.068700	4.090110	58.391155	2.326610	0.031920	0.322796	0.060457	0.004598	0.002615	0.166929	0.000796	0.016144	0.009135	0.002561	0.025615
23-Mar-2026	0.232624	16.771100	26.275400	4.122530	58.854015	2.345060	0.032173	0.325355	0.060937	0.004635	0.002636	0.168253	0.000803	0.016272	0.009207	0.002582	0.025818
24-Mar-2026	0.232624	16.896900	26.472500	4.153450	59.295466	2.362650	0.032415	0.327795	0.061394	0.004670	0.002656	0.169515	0.000809	0.016394	0.009276	0.002601	0.026011
25-Mar-2026	0.232624	17.010700	26.650900	4.181440	59.694888	2.378570	0.032633	0.330004	0.061807	0.004701	0.002674	0.170657	0.000814	0.016504	0.009339	0.002619	0.026187
26-Mar-2026	0.232624	17.128500	26.835400	4.210390	60.108251	2.395040	0.032859	0.332289	0.062235	0.004734	0.002692	0.171838	0.000820	0.016619	0.009404	0.002637	0.026368
27-Mar-2026	0.232624	17.249800	27.025500	4.240220	60.533977	2.412000	0.033092	0.334642	0.062676	0.004767	0.002711	0.173056	0.000826	0.016736	0.009470	0.002655	0.026555
28-Mar-2026	0.232625	17.384200	27.235900	4.273230	61.005509	2.430780	0.033350	0.337248	0.063164	0.004804	0.002733	0.174403	0.000832	0.016867	0.009544	0.002676	0.026762
29-Mar-2026	0.232625	17.527300	27.460300	4.308430	61.507783	2.450800	0.033624	0.340026	0.063685	0.004844	0.002755	0.175839	0.000839	0.017006	0.009622	0.002698	0.026982
30-Mar-2026	0.232625	17.683900	27.705500	4.346910	62.057274	2.472690	0.033925	0.343063	0.064253	0.004887	0.002780	0.177410	0.000846	0.017158	0.009708	0.002722	0.027223
31-Mar-2026	0.232625	17.844300	27.956800	4.386340	62.620165	2.495120	0.034232	0.346175	0.064836	0.004932	0.002805	0.179019	0.000854	0.017313	0.009797	0.002747	0.027470
1-Apr-2026	0.232625	17.982500	28.173300	4.420310	63.105139	2.514450	0.034497	0.348856	0.065338	0.004970	0.002827	0.180406	0.000861	0.017447	0.009872	0.002768	0.027683
2-Apr-2026	0.232625	17.968200	28.151000	4.416800	63.054978	2.512450	0.034470	0.348578	0.065286	0.004966	0.002824	0.180262	0.000860	0.017433	0.009865	0.002766	0.027661
3-Apr-2026	0.232625	17.937000	28.102100	4.409140	62.945528	2.508090	0.034410	0.347974	0.065173	0.004957	0.002819	0.179949	0.000859	0.017403	0.009847	0.002761	0.027613
4-Apr-2026	0.232625	17.911300	28.061900	4.402820	62.855329	2.504500	0.034361	0.347475	0.065080	0.004950	0.002815	0.179692	0.000857	0.017378	0.009833	0.002757	0.027573
5-Apr-2026	0.232625	17.888000	28.025300	4.397080	62.773511	2.501230	0.034316	0.347022	0.064995	0.004944	0.002812	0.179457	0.000856	0.017356	0.009820	0.002754	0.027537

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Apr-2026	0.232625	17.865400	27.990000	4.391540	62.694266	2.498080	0.034273	0.346585	0.064913	0.004937	0.002808	0.179231	0.000855	0.017334	0.009808	0.002750	0.027502
7-Apr-2026	0.232625	17.842800	27.954500	4.385980	62.614937	2.494920	0.034229	0.346146	0.064831	0.004931	0.002805	0.179004	0.000854	0.017312	0.009796	0.002747	0.027468
8-Apr-2026	0.232625	17.819300	27.917700	4.380200	62.532456	2.491630	0.034184	0.345690	0.064745	0.004925	0.002801	0.178768	0.000853	0.017289	0.009783	0.002743	0.027431
9-Apr-2026	0.232625	17.800500	27.888200	4.375560	62.466405	2.488990	0.034148	0.345324	0.064677	0.004919	0.002798	0.178579	0.000852	0.017271	0.009772	0.002740	0.027402
10-Apr-2026	0.232625	17.786000	27.865500	4.372000	62.415538	2.486970	0.034120	0.345043	0.064624	0.004915	0.002796	0.178434	0.000851	0.017257	0.009764	0.002738	0.027380
11-Apr-2026	0.232625	17.768700	27.838500	4.367770	62.354921	2.484560	0.034087	0.344709	0.064562	0.004911	0.002793	0.178261	0.000850	0.017240	0.009755	0.002735	0.027354
12-Apr-2026	0.232625	17.749400	27.808200	4.363020	62.287168	2.481860	0.034050	0.344334	0.064491	0.004905	0.002790	0.178067	0.000850	0.017221	0.009744	0.002732	0.027324
13-Apr-2026	0.232625	17.728700	27.775800	4.357930	62.214520	2.478960	0.034011	0.343933	0.064416	0.004900	0.002787	0.177860	0.000849	0.017201	0.009733	0.002729	0.027292
14-Apr-2026	0.232625	17.705000	27.738700	4.352110	62.131374	2.475650	0.033965	0.343473	0.064330	0.004893	0.002783	0.177622	0.000847	0.017178	0.009720	0.002726	0.027255
15-Apr-2026	0.232625	17.643200	27.641800	4.336910	61.914466	2.467010	0.033846	0.342274	0.064105	0.004876	0.002773	0.177002	0.000844	0.017118	0.009686	0.002716	0.027160
16-Apr-2026	0.232625	17.631800	27.623900	4.334100	61.874428	2.465410	0.033825	0.342052	0.064064	0.004873	0.002771	0.176887	0.000844	0.017107	0.009680	0.002714	0.027143
17-Apr-2026	0.232625	17.623800	27.611400	4.332140	61.846381	2.464290	0.033809	0.341897	0.064035	0.004871	0.002770	0.176807	0.000844	0.017099	0.009675	0.002713	0.027130
18-Apr-2026	0.232625	17.610600	27.590700	4.328890	61.800037	2.462440	0.033784	0.341641	0.063987	0.004867	0.002768	0.176674	0.000843	0.017086	0.009668	0.002711	0.027110
19-Apr-2026	0.232625	17.591500	27.560900	4.324210	61.733072	2.459780	0.033747	0.341272	0.063918	0.004862	0.002765	0.176483	0.000842	0.017068	0.009658	0.002708	0.027081
20-Apr-2026	0.232625	17.577800	27.539300	4.320830	61.684945	2.457860	0.033721	0.341004	0.063868	0.004858	0.002763	0.176345	0.000841	0.017055	0.009650	0.002706	0.027060
21-Apr-2026	0.232625	17.557800	27.508000	4.315930	61.614826	2.455070	0.033683	0.340618	0.063795	0.004852	0.002760	0.176145	0.000840	0.017035	0.009639	0.002703	0.027029
22-Apr-2026	0.232625	17.539400	27.479100	4.311390	61.550186	2.452490	0.033647	0.340260	0.063728	0.004847	0.002757	0.175960	0.000840	0.017017	0.009629	0.002700	0.027000
23-Apr-2026	0.232625	17.522600	27.452900	4.307270	61.491270	2.450150	0.033615	0.339935	0.063667	0.004843	0.002754	0.175792	0.000839	0.017001	0.009620	0.002697	0.026975
24-Apr-2026	0.232625	17.499200	27.416200	4.301510	61.409121	2.446870	0.033570	0.339480	0.063582	0.004836	0.002751	0.175557	0.000838	0.016978	0.009607	0.002694	0.026939
25-Apr-2026	0.232625	17.476800	27.381100	4.296000	61.330498	2.443740	0.033527	0.339045	0.063501	0.004830	0.002747	0.175332	0.000837	0.016957	0.009595	0.002690	0.026904
26-Apr-2026	0.232625	17.457100	27.350300	4.291170	61.261417	2.440990	0.033489	0.338664	0.063429	0.004825	0.002744	0.175135	0.000836	0.016938	0.009584	0.002687	0.026874
27-Apr-2026	0.232625	17.437900	27.320200	4.286460	61.194079	2.438310	0.033453	0.338292	0.063360	0.004819	0.002741	0.174943	0.000835	0.016919	0.009573	0.002684	0.026844
28-Apr-2026	0.232625	17.415000	27.284300	4.280820	61.113672	2.435100	0.033409	0.337847	0.063276	0.004813	0.002737	0.174713	0.000834	0.016897	0.009561	0.002681	0.026809
29-Apr-2026	0.232625	17.391900	27.248000	4.275130	61.032560	2.431860	0.033364	0.337398	0.063192	0.004806	0.002734	0.174480	0.000832	0.016874	0.009548	0.002677	0.026773
30-Apr-2026	0.232634	17.369100	27.212400	4.269540	60.952608	2.428680	0.033321	0.336957	0.063110	0.004800	0.002730	0.174252	0.000831	0.016852	0.009536	0.002674	0.026738
1-May-2026	0.232739	17.331500	27.153500	4.260300	60.820671	2.423430	0.033249	0.336228	0.062973	0.004790	0.002724	0.173875	0.000830	0.016816	0.009515	0.002668	0.026681
2-May-2026	0.233333	17.218600	26.976600	4.232540	60.424444	2.407640	0.033032	0.334037	0.062563	0.004759	0.002707	0.172742	0.000824	0.016706	0.009453	0.002651	0.026507
3-May-2026	0.235734	16.828400	26.365300	4.136630	59.055157	2.353080	0.032283	0.326467	0.061145	0.004651	0.002645	0.168828	0.000805	0.016328	0.009239	0.002591	0.025906
4-May-2026	0.238546	16.487700	25.831400	4.052870	57.859506	2.305430	0.031630	0.319857	0.059907	0.004557	0.002592	0.165409	0.000789	0.015997	0.009052	0.002538	0.025381
5-May-2026	0.241585	16.386000	25.672100	4.027870	57.502611	2.291210	0.031435	0.317884	0.059537	0.004528	0.002576	0.164389	0.000784	0.015898	0.008996	0.002522	0.025225
6-May-2026	0.244475	16.271100	25.492100	3.999630	57.099413	2.275150	0.031214	0.315655	0.059120	0.004497	0.002558	0.163236	0.000779	0.015787	0.008933	0.002505	0.025048
7-May-2026	0.247745	16.223300	25.417200	3.987880	56.931670	2.268470	0.031123	0.314728	0.058946	0.004484	0.002550	0.162757	0.000777	0.015740	0.008907	0.002497	0.024975
8-May-2026	0.250318	16.180400	25.349900	3.977320	56.781063	2.262460	0.031040	0.313895	0.058790	0.004472	0.002543	0.162326	0.000774	0.015699	0.008883	0.002491	0.024908
9-May-2026	0.252915	16.142700	25.291000	3.968080	56.648875	2.257200	0.030968	0.313165	0.058654	0.004461	0.002537	0.161949	0.000773	0.015662	0.008862	0.002485	0.024850
10-May-2026	0.255264	16.098700	25.222000	3.957260	56.494451	2.251040	0.030884	0.312311	0.058494	0.004449	0.002531	0.161507	0.000771	0.015620	0.008838	0.002478	0.024783
11-May-2026	0.259902	16.036800	25.125000	3.942030	56.277169	2.242380	0.030765	0.311109	0.058269	0.004432	0.002521	0.160886	0.000768	0.015559	0.008804	0.002469	0.024687
12-May-2026	0.262363	15.984300	25.042800	3.929130	56.092954	2.235050	0.030664	0.310091	0.058078	0.004417	0.002513	0.160359	0.000765	0.015509	0.008775	0.002461	0.024607
13-May-2026	0.264097	15.915700	24.935200	3.912260	55.852190	2.225450	0.030532	0.308760	0.057829	0.004399	0.002502	0.159671	0.000762	0.015442	0.008738	0.002450	0.024501
14-May-2026	0.270986	15.833900	24.807200	3.892170	55.565204	2.214020	0.030376	0.307174	0.057532	0.004376	0.002489	0.158851	0.000758	0.015363	0.008693	0.002438	0.024375
15-May-2026	0.276328	15.765300	24.699600	3.875300	55.324440	2.204420	0.030244	0.305842	0.057282	0.004357	0.002478	0.158162	0.000755	0.015296	0.008655	0.002427	0.024269
16-May-2026	0.281874	15.624700	24.479300	3.840740	54.831043	2.184760	0.029974	0.303115	0.056772	0.004318	0.002456	0.156752	0.000748	0.015160	0.008578	0.002405	0.024053
17-May-2026	0.297573	15.503200	24.288900	3.810870	54.404653	2.167760	0.029741	0.300757	0.056330	0.004285	0.002437	0.155533	0.000742	0.015042	0.008511	0.002387	0.023866
18-May-2026	0.298162	15.383400	24.101300	3.781430	53.984279	2.151020	0.029511	0.298433	0.055895	0.004251	0.002418	0.154331	0.000736	0.014926	0.008445	0.002368	0.023681
19-May-2026	0.300145	15.229600	23.860300	3.743630	53.444580	2.129510	0.029216	0.295449	0.055336	0.004209	0.002394	0.152788	0.000729	0.014776	0.008361	0.002344	0.023445
20-May-2026	0.302788	15.092900	23.646200	3.710040	52.964916	2.110400	0.028954	0.292798	0.054840	0.004171	0.002372	0.151418	0.000722	0.014644	0.008286	0.002323	0.023234
21-May-2026	0.303865	14.733900	23.083600	3.621810	51.705162	2.060180	0.028265	0.285831	0.053537	0.004072	0.002316	0.147818	0.000705	0.014296	0.008089	0.002268	0.022682
22-May-2026	0.305893	14.350200	22.482400	3.527530	50.358818	2.006500	0.027529	0.278384	0.052144	0.003966	0.002256	0.143971	0.000687	0.013923	0.007878	0.002209	0.022091
23-May-2026	0.306994	14.094300	22.081400	3.464630	49.460813	1.970710	0.027038	0.273418	0.051215	0.003895	0.002216	0.141404	0.000675	0.013675	0.007738	0.002170	0.021697
24-May-2026	0.316837	13.726100	21.504400	3.374180	48.168945	1.919190	0.026331	0.266271	0.049879	0.003793	0.002158	0.137714	0.000657	0.013318	0.007536	0.002113	0.021130
25-May-2026	0.310450	13.441200	21.057900	3.304140	47.169125	1.879330	0.025784	0.260742	0.048845	0.003714	0.002113	0.134856	0.000643	0.013042	0.007379	0.002069	0.020691
26-May-2026	0.311815	13.126000	20.564100	3.226720	46.063255	1.835240	0.025179	0.254625	0.047701	0.003627	0.002064	0.131697	0.000628	0.012736	0.007206	0.002021	0.020206
27-May-2026	0.315629	12.730900	19.944900	3.129630	44.676874	1.779960	0.024421	0.246957	0.046267	0.003518	0.002002	0.127736	0.000609	0.012353	0.006989	0.001960	0.019598

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-May-2026	0.319320	12.577000	19.703700	3.091820	44.136884	1.758420	0.024126	0.243969	0.045709	0.003476	0.001977	0.126194	0.000602	0.012204	0.006905	0.001936	0.019361
29-May-2026	0.328199	12.462000	19.523400	3.063580	43.733436	1.742330	0.023905	0.241736	0.045292	0.003444	0.001959	0.125042	0.000596	0.012092	0.006841	0.001918	0.019183
30-May-2026	0.340859	12.323900	19.306800	3.029700	43.249083	1.722970	0.023640	0.239055	0.044791	0.003406	0.001938	0.123664	0.000590	0.011958	0.006766	0.001897	0.018971
31-May-2026	0.353259	12.203800	19.118400	3.000230	42.827836	1.706140	0.023409	0.236721	0.044357	0.003372	0.001919	0.122464	0.000584	0.011842	0.006700	0.001879	0.018786
1-Jun-2026	0.367176	12.139900	19.018100	2.984590	42.603872	1.697160	0.023286	0.235477	0.044127	0.003355	0.001909	0.121828	0.000581	0.011780	0.006665	0.001869	0.018687
2-Jun-2026	0.400084	12.016500	18.823800	2.954590	42.172202	1.679700	0.023048	0.233071	0.043692	0.003320	0.001890	0.120619	0.000575	0.011662	0.006597	0.001850	0.018497
3-Jun-2026	0.429008	11.804300	18.486600	2.903770	41.433062	1.649150	0.022638	0.228921	0.042989	0.003261	0.001859	0.118598	0.000565	0.011462	0.006479	0.001817	0.018172
4-Jun-2026	0.521489	11.591100	18.140600	2.854790	40.699002	1.617250	0.022221	0.224720	0.042396	0.003198	0.001832	0.116718	0.000554	0.011270	0.006361	0.001785	0.017850
5-Jun-2026	0.564280	11.414700	17.853400	2.814620	40.093111	1.590640	0.021873	0.221217	0.041983	0.003147	0.001812	0.115201	0.000545	0.011113	0.006262	0.001758	0.017583
6-Jun-2026	0.588678	11.198200	17.486600	2.769360	39.366130	1.555400	0.021439	0.216862	0.041618	0.003079	0.001792	0.113614	0.000533	0.010938	0.006139	0.001726	0.017263
7-Jun-2026	0.653633	10.955200	17.077700	2.717800	38.547035	1.515970	0.020944	0.211874	0.041112	0.003004	0.001769	0.111769	0.000520	0.010738	0.006002	0.001690	0.016901
8-Jun-2026	0.749044	10.733800	16.702700	2.671500	37.803536	1.479590	0.020493	0.207335	0.040778	0.002934	0.001750	0.110144	0.000508	0.010559	0.005876	0.001657	0.016572
9-Jun-2026	0.860604	10.536000	16.365500	2.631450	37.144703	1.446810	0.020089	0.203275	0.040457	0.002872	0.001735	0.108802	0.000497	0.010405	0.005763	0.001628	0.016278
10-Jun-2026	0.994253	10.343500	16.038400	2.590850	36.496840	1.414700	0.019688	0.199199	0.040302	0.002811	0.001723	0.107385	0.000486	0.010247	0.005654	0.001599	0.015988
11-Jun-2026	1.120826	10.216600	15.819400	2.565510	36.075620	1.393280	0.019432	0.196649	0.040245	0.002770	0.001718	0.106741	0.000479	0.010150	0.005581	0.001580	0.015803
12-Jun-2026	1.334929	10.048200	15.539800	2.530430	35.510666	1.366190	0.019077	0.192991	0.040231	0.002718	0.001712	0.105796	0.000470	0.010016	0.005486	0.001554	0.015542
13-Jun-2026	1.584152	9.907660	15.283800	2.504400	35.052546	1.340020	0.018796	0.190240	0.040249	0.002670	0.001706	0.104937	0.000462	0.009916	0.005404	0.001535	0.015348
14-Jun-2026	1.777830	9.734850	14.997900	2.468370	34.472668	1.312780	0.018432	0.186379	0.040069	0.002620	0.001691	0.103504	0.000453	0.009779	0.005307	0.001507	0.015075
15-Jun-2026	2.054464	9.598020	14.759500	2.439920	34.013847	1.289200	0.018153	0.183635	0.039784	0.002576	0.001676	0.102461	0.000445	0.009668	0.005229	0.001488	0.014880
16-Jun-2026	2.248799	9.441370	14.490200	2.406610	33.485521	1.262720	0.017833	0.179996	0.039446	0.002527	0.001659	0.101290	0.000436	0.009542	0.005139	0.001464	0.014640
17-Jun-2026	2.410557	9.313520	14.263900	2.383600	33.071524	1.240150	0.017575	0.177617	0.039278	0.002486	0.001650	0.100615	0.000429	0.009454	0.005066	0.001446	0.014458
18-Jun-2026	2.470401	9.153710	13.986300	2.350590	32.536543	1.212700	0.017252	0.173998	0.039010	0.002435	0.001638	0.099631	0.000420	0.009331	0.004974	0.001422	0.014219
19-Jun-2026	2.476759	9.016990	13.745700	2.326030	32.094016	1.188870	0.016980	0.171457	0.038786	0.002392	0.001627	0.098889	0.000412	0.009236	0.004896	0.001403	0.014027
20-Jun-2026	2.454919	8.867070	13.488000	2.294230	31.588713	1.163700	0.016676	0.168192	0.038617	0.002346	0.001618	0.097922	0.000403	0.009116	0.004810	0.001380	0.013796
21-Jun-2026	2.480914	8.724650	13.239000	2.267660	31.123675	1.138250	0.016376	0.165283	0.038457	0.002297	0.001610	0.097058	0.000395	0.009016	0.004728	0.001360	0.013595
22-Jun-2026	2.512901	8.580390	12.984900	2.238670	30.644077	1.113100	0.016084	0.162227	0.038365	0.002251	0.001601	0.096218	0.000387	0.008907	0.004645	0.001338	0.013379
23-Jun-2026	2.585320	8.435630	12.732400	2.209560	30.162736	1.088390	0.015795	0.159151	0.038225	0.002207	0.001591	0.095474	0.000379	0.008799	0.004563	0.001316	0.013162
24-Jun-2026	2.698047	8.301800	12.498300	2.182940	29.718942	1.065360	0.015526	0.156329	0.038081	0.002167	0.001583	0.094898	0.000371	0.008701	0.004486	0.001296	0.012961
25-Jun-2026	2.787988	8.188770	12.301400	2.160230	29.343186	1.046000	0.015297	0.153947	0.037919	0.002133	0.001575	0.094213	0.000365	0.008616	0.004422	0.001279	0.012791
26-Jun-2026	2.880293	8.006990	11.983300	2.123970	28.739962	1.014790	0.014934	0.150134	0.037722	0.002078	0.001563	0.093234	0.000354	0.008482	0.004318	0.001252	0.012518
27-Jun-2026	2.969048	7.871070	11.744100	2.097190	28.290290	0.991273	0.014666	0.147303	0.037644	0.002042	0.001555	0.092612	0.000346	0.008384	0.004240	0.001232	0.012316
28-Jun-2026	3.010319	7.777780	11.584700	2.078490	27.980338	0.976163	0.014481	0.145331	0.037606	0.002014	0.001549	0.092056	0.000341	0.008316	0.004188	0.001217	0.012175
29-Jun-2026	3.055320	7.652950	11.362300	2.053400	27.565317	0.953951	0.014232	0.142739	0.037505	0.001974	0.001540	0.091451	0.000334	0.008224	0.004116	0.001199	0.011986
30-Jun-2026	3.169366	7.528340	11.146600	2.027760	27.148581	0.933253	0.013984	0.140078	0.037491	0.001940	0.001533	0.090891	0.000327	0.008130	0.004046	0.001179	0.011791
1-Jul-2026	3.662650	5.654300	7.874290	1.643140	20.885238	0.618403	0.010364	0.102748	0.033440	0.001453	0.001374	0.083872	0.000221	0.006752	0.002988	0.000893	0.008931
2-Jul-2026	3.942861	5.733420	8.042960	1.651530	21.117350	0.634647	0.010454	0.103958	0.033347	0.001442	0.001371	0.082111	0.000227	0.006782	0.003037	0.000908	0.009080
3-Jul-2026	4.720039	6.041020	8.612870	1.703360	22.098863	0.690865	0.010991	0.109408	0.033356	0.001529	0.001375	0.081415	0.000246	0.006971	0.003216	0.000954	0.009536
4-Jul-2026	6.572098	5.967500	8.471410	1.691990	21.868462	0.677730	0.010887	0.108338	0.033091	0.001519	0.001373	0.081718	0.000241	0.006922	0.003173	0.000940	0.009404
5-Jul-2026	8.016379	6.244800	8.976100	1.734540	22.736101	0.728653	0.011401	0.113490	0.033461	0.001608	0.001379	0.082672	0.000258	0.007130	0.003341	0.000982	0.009822
6-Jul-2026	9.357066	6.261440	9.007650	1.737980	22.791817	0.731769	0.011430	0.113792	0.033428	0.001614	0.001379	0.082722	0.000259	0.007136	0.003350	0.000985	0.009846
7-Jul-2026	10.696667	6.243770	8.971660	1.735400	22.737071	0.728652	0.011416	0.113651	0.033394	0.001614	0.001379	0.083394	0.000258	0.007128	0.003340	0.000982	0.009816
8-Jul-2026	11.216572	6.285020	9.044250	1.741940	22.867004	0.736205	0.011501	0.114501	0.033452	0.001631	0.001380	0.083245	0.000261	0.007161	0.003365	0.000988	0.009876
9-Jul-2026	12.499136	6.647800	9.712390	1.799780	24.011051	0.802635	0.012144	0.120960	0.033877	0.001737	0.001387	0.084173	0.000283	0.007415	0.003582	0.001043	0.010426
10-Jul-2026	14.153009	6.693900	9.798180	1.808260	24.161083	0.811099	0.012224	0.121765	0.033801	0.001752	0.001388	0.084183	0.000286	0.007437	0.003608	0.001049	0.010495
11-Jul-2026	14.701368	6.694310	9.789580	1.807480	24.158895	0.811053	0.012253	0.121979	0.033884	0.001762	0.001389	0.084862	0.000286	0.007455	0.003610	0.001049	0.010488
12-Jul-2026	15.097749	6.520380	9.472650	1.782050	23.619871	0.779198	0.011935	0.118806	0.033551	0.001710	0.001385	0.084247	0.000275	0.007317	0.003504	0.001022	0.010222
13-Jul-2026	15.242634	6.661950	9.734400	1.804120	24.064255	0.805169	0.012182	0.121292	0.033703	0.001750	0.001387	0.084457	0.000284	0.007416	0.003588	0.001044	0.010438
14-Jul-2026	15.919440	6.760030	9.915530	1.820400	24.376202	0.823130	0.012355	0.123034	0.033769	0.001779	0.001389	0.084687	0.000290	0.007480	0.003646	0.001059	0.010586
15-Jul-2026	15.634306	6.815580	10.021800	1.831370	24.560085	0.833295	0.012441	0.123924	0.033696	0.001794	0.001390	0.084689	0.000293	0.007502	0.003677	0.001067	0.010670
16-Jul-2026	15.795228	6.682100	9.772180	1.809880	24.138290	0.808763	0.012215	0.121625	0.033570	0.001759	0.001388	0.084617	0.000285	0.007416	0.003598	0.001046	0.010464
17-Jul-2026	16.636032	6.886050	10.145400	1.840990	24.775664	0.846116	0.012582	0.125293	0.033835	0.001820	0.001392	0.085123	0.000298	0.007566	0.003721	0.001077	0.010772
18-Jul-2026	16.595309	6.919700	10.207900	1.846460	24.882213	0.852228	0.012637	0.125843	0.033854	0.001829	0.001393	0.085159	0.000300	0.007588	0.003741	0.001082	0.010823

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19-Jul-2026	16.829579	6.735530	9.878940	1.822010	24.321656	0.818459	0.012277	0.122272	0.033388	0.001769	0.001389	0.084395	0.000289	0.007420	0.003624	0.001054	0.010542
20-Jul-2026	17.053836	6.793230	9.984450	1.831560	24.505059	0.829007	0.012383	0.123321	0.033413	0.001788	0.001390	0.084601	0.000292	0.007461	0.003659	0.001063	0.010628
21-Jul-2026	17.792947	6.926500	10.224000	1.850170	24.914471	0.853398	0.012634	0.125817	0.033669	0.001831	0.001393	0.085096	0.000300	0.007573	0.003742	0.001083	0.010829
22-Jul-2026	18.239534	7.198010	10.722700	1.893380	25.770370	0.903095	0.013120	0.130689	0.033959	0.001912	0.001398	0.085888	0.000317	0.007763	0.003904	0.001124	0.011240
23-Jul-2026	18.654304	7.387020	11.070000	1.923900	26.368009	0.937726	0.013459	0.134089	0.034136	0.001969	0.001402	0.086289	0.000329	0.007893	0.004017	0.001152	0.011525
24-Jul-2026	18.734453	7.277130	10.864800	1.908960	26.032091	0.917567	0.013278	0.132227	0.033922	0.001944	0.001400	0.086342	0.000322	0.007809	0.003949	0.001135	0.011353
25-Jul-2026	19.490947	7.440520	11.162600	1.933590	26.541502	0.947485	0.013576	0.135205	0.034161	0.001994	0.001404	0.086834	0.000332	0.007932	0.004048	0.001160	0.011599
26-Jul-2026	18.872809	7.320880	10.945900	1.915650	26.168884	0.925655	0.013354	0.132989	0.033953	0.001957	0.001401	0.086426	0.000324	0.007838	0.003975	0.001142	0.011418
27-Jul-2026	17.696000	7.210550	10.744500	1.898880	25.824331	0.905383	0.013149	0.130926	0.033763	0.001923	0.001398	0.086111	0.000318	0.007754	0.003908	0.001125	0.011249
28-Jul-2026	18.467011	7.370510	11.037200	1.923610	26.325589	0.934674	0.013438	0.133811	0.033961	0.001972	0.001402	0.086548	0.000327	0.007871	0.004005	0.001149	0.011490
29-Jul-2026	18.488238	7.359630	11.020400	1.923300	26.297146	0.932697	0.013409	0.133535	0.033868	0.001967	0.001401	0.086419	0.000327	0.007851	0.003996	0.001147	0.011474
30-Jul-2026	18.322406	7.425270	11.140600	1.933630	26.503588	0.944712	0.013526	0.134688	0.033918	0.001988	0.001402	0.086598	0.000331	0.007898	0.004035	0.001157	0.011572
31-Jul-2026	18.492468	7.488080	11.257900	1.944930	26.706958	0.956195	0.013632	0.135765	0.033906	0.002006	0.001404	0.086715	0.000335	0.007932	0.004071	0.001167	0.011666
1-Aug-2026	17.920915	7.396770	11.092400	1.932550	26.427976	0.939243	0.013453	0.133962	0.033656	0.001978	0.001402	0.086438	0.000329	0.007854	0.004014	0.001152	0.011524
2-Aug-2026	17.245396	7.495170	11.272300	1.948360	26.738786	0.956918	0.013615	0.135540	0.033739	0.002009	0.001404	0.086754	0.000335	0.007922	0.004073	0.001167	0.011671
3-Aug-2026	15.777555	7.459870	11.205700	1.944000	26.632687	0.950242	0.013550	0.134862	0.033632	0.002003	0.001403	0.086853	0.000333	0.007894	0.004051	0.001161	0.011613
4-Aug-2026	16.731636	7.653490	11.559700	1.973530	27.237761	0.985681	0.013898	0.138334	0.033891	0.002062	0.001407	0.087387	0.000345	0.008037	0.004168	0.001191	0.011905
5-Aug-2026	17.181747	7.413840	11.126600	1.939110	26.497613	0.941449	0.013446	0.133784	0.033483	0.001990	0.001402	0.086795	0.000331	0.007850	0.004020	0.001154	0.011542
6-Aug-2026	17.199232	7.962670	12.132100	2.025550	28.224002	1.041280	0.014390	0.143176	0.034056	0.002153	0.001413	0.088037	0.000364	0.008233	0.004349	0.001237	0.012372
7-Aug-2026	17.133589	7.612810	11.495900	1.972780	27.133095	0.977205	0.013758	0.136871	0.033561	0.002046	0.001406	0.087026	0.000343	0.007972	0.004136	0.001184	0.011842
8-Aug-2026	17.219000	7.875970	11.972800	2.011350	27.949036	1.025570	0.014241	0.141693	0.033933	0.002126	0.001411	0.087781	0.000359	0.008172	0.004298	0.001224	0.012238
9-Aug-2026	17.681387	8.075080	12.341700	2.044140	28.581243	1.061630	0.014565	0.144911	0.034075	0.002184	0.001415	0.088174	0.000371	0.008302	0.004415	0.001254	0.012540
10-Aug-2026	17.756636	7.959320	12.131600	2.027930	28.225438	1.040170	0.014340	0.142635	0.033824	0.002150	0.001413	0.087871	0.000364	0.008207	0.004343	0.001236	0.012362
11-Aug-2026	17.558643	7.955040	12.123800	2.028510	28.217139	1.039090	0.014319	0.142393	0.033741	0.002151	0.001413	0.087956	0.000364	0.008196	0.004339	0.001235	0.012352
12-Aug-2026	16.448806	7.868810	11.956200	2.013090	27.938323	1.022780	0.014176	0.140886	0.033749	0.002131	0.001412	0.088075	0.000358	0.008156	0.004291	0.001222	0.012215
13-Aug-2026	16.708234	7.801500	11.840800	2.005230	27.737883	1.010580	0.014030	0.139445	0.033462	0.002107	0.001410	0.087628	0.000355	0.008081	0.004246	0.001211	0.012113
14-Aug-2026	17.061555	7.778320	11.797300	2.002420	27.668431	1.006150	0.013984	0.138968	0.033383	0.002103	0.001409	0.087666	0.000353	0.008061	0.004231	0.001207	0.012074
15-Aug-2026	16.850621	7.906640	12.045500	2.027230	28.091013	1.028800	0.014131	0.140399	0.033344	0.002133	0.001411	0.087565	0.000361	0.008112	0.004302	0.001227	0.012273
16-Aug-2026	16.152566	7.964420	12.147600	2.034790	28.266422	1.039560	0.014255	0.141639	0.033363	0.002152	0.001412	0.087778	0.000365	0.008165	0.004338	0.001236	0.012356
17-Aug-2026	15.460664	7.761740	11.771600	2.005260	27.638725	1.002210	0.013897	0.138036	0.033063	0.002098	0.001409	0.087560	0.000352	0.008020	0.004216	0.001204	0.012042
18-Aug-2026	14.974434	7.755370	11.760800	2.003660	27.616231	1.000950	0.013877	0.137834	0.033011	0.002096	0.001408	0.087531	0.000352	0.008011	0.004212	0.001203	0.012031
19-Aug-2026	15.170802	8.108500	12.407900	2.060330	28.731363	1.064850	0.014478	0.143786	0.033357	0.002206	0.001415	0.088568	0.000374	0.008257	0.004422	0.001256	0.012561
20-Aug-2026	15.038485	7.986250	12.185500	2.041550	28.348769	1.042550	0.014254	0.141553	0.033160	0.002168	0.001413	0.088179	0.000366	0.008164	0.004348	0.001238	0.012376
21-Aug-2026	15.198253	7.931270	12.088200	2.034420	28.182123	1.032380	0.014139	0.140393	0.033002	0.002148	0.001411	0.087848	0.000363	0.008114	0.004313	0.001229	0.012292
22-Aug-2026	14.832479	7.885250	12.009000	2.029460	28.046786	1.023500	0.014023	0.139204	0.032834	0.002133	0.001410	0.087676	0.000360	0.008063	0.004282	0.001222	0.012222
23-Aug-2026	15.492243	8.253060	12.680500	2.085780	29.197133	1.090710	0.014681	0.145772	0.033293	0.002245	0.001418	0.088652	0.000383	0.008334	0.004505	0.001278	0.012779
24-Aug-2026	15.624623	8.676900	13.453900	2.151520	30.526179	1.167940	0.015436	0.153291	0.033843	0.002376	0.001426	0.089948	0.000409	0.008646	0.004761	0.001342	0.013417
25-Aug-2026	16.023251	8.163300	12.518200	2.073650	28.923051	1.073940	0.014495	0.143873	0.033064	0.002219	0.001416	0.088423	0.000377	0.008255	0.004449	0.001264	0.012640
26-Aug-2026	15.174621	8.131460	12.461000	2.069740	28.827445	1.067860	0.014422	0.143114	0.032934	0.002210	0.001415	0.088323	0.000376	0.008224	0.004428	0.001259	0.012588
27-Aug-2026	15.686000	8.228410	12.639600	2.085230	29.133317	1.085450	0.014584	0.144726	0.033016	0.002238	0.001417	0.088541	0.000381	0.008290	0.004486	0.001273	0.012733
28-Aug-2026	15.334170	8.207200	12.603100	2.083280	29.072325	1.081320	0.014526	0.144124	0.032903	0.002232	0.001416	0.088446	0.000380	0.008264	0.004471	0.001270	0.012700
29-Aug-2026	15.139345	8.249280	12.681200	2.090290	29.206266	1.088890	0.014592	0.144773	0.032926	0.002244	0.001417	0.088502	0.000383	0.008291	0.004496	0.001276	0.012764
30-Aug-2026	15.313700	8.492970	13.127800	2.128780	29.973262	1.133140	0.015014	0.148966	0.033194	0.002317	0.001422	0.089151	0.000398	0.008464	0.004642	0.001313	0.013131
31-Aug-2026	14.301611	8.489760	13.126600	2.130030	29.970394	1.132300	0.014979	0.148597	0.033070	0.002314	0.001421	0.088976	0.000398	0.008446	0.004638	0.001313	0.013127
1-Sep-2026	13.296130	8.575540	13.284900	2.143940	30.241868	1.147840	0.015120	0.149986	0.033119	0.002340	0.001423	0.089183	0.000403	0.008503	0.004688	0.001326	0.013255
2-Sep-2026	13.155964	8.681540	13.478600	2.159880	30.572191	1.167350	0.015312	0.151904	0.033250	0.002373	0.001424	0.089511	0.000410	0.008581	0.004753	0.001341	0.013414
3-Sep-2026	12.864381	8.659650	13.446200	2.155930	30.501266	1.164210	0.015262	0.151412	0.033099	0.002367	0.001421	0.089253	0.000409	0.008552	0.004740	0.001338	0.013380
4-Sep-2026	13.036213	8.785820	13.670700	2.175180	30.895584	1.186830	0.015500	0.153781	0.033341	0.002408	0.001425	0.089838	0.000416	0.008656	0.004817	0.001357	0.013569
5-Sep-2026	11.841881	8.580300	13.298500	2.143310	30.251160	1.149680	0.015122	0.149996	0.032958	0.002347	0.001419	0.089216	0.000404	0.008496	0.004692	0.001325	0.013253
6-Sep-2026	11.546062	8.529250	13.204800	2.135600	30.091938	1.140300	0.015027	0.149044	0.032868	0.002334	0.001418	0.089131	0.000401	0.008458	0.004661	0.001317	0.013174
7-Sep-2026	11.614196	8.485880	13.126500	2.129170	29.957164	1.132460	0.014940	0.148144	0.032729	0.002325	0.001416	0.089111	0.000398	0.008421	0.004635	0.001310	0.013104
8-Sep-2026	10.954740	8.505210	13.162500	2.131920	30.016756	1.136100	0.014975	0.148502	0.032745	0.002330	0.001416	0.089145	0.000399	0.008435	0.004647	0.001313	0.013133

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
9-Sep-2026	11.110904	8.796310	13.693800	2.176250	30.926184	1.189390	0.015503	0.153780	0.033158	0.002419	0.001422	0.089981	0.000417	0.008653	0.004823	0.001357	0.013573
10-Sep-2026	10.913117	8.758110	13.629800	2.170090	30.805431	1.183010	0.015425	0.153001	0.033015	0.002408	0.001419	0.089718	0.000415	0.008614	0.004800	0.001351	0.013515
11-Sep-2026	9.918102	8.668310	13.467900	2.156450	30.525031	1.166720	0.015255	0.151299	0.032833	0.002380	0.001416	0.089410	0.000410	0.008542	0.004745	0.001338	0.013377
12-Sep-2026	8.673650	8.673880	13.479700	2.157310	30.542481	1.167910	0.015259	0.151327	0.032787	0.002384	0.001415	0.089438	0.000410	0.008541	0.004748	0.001338	0.013383
13-Sep-2026	8.728127	8.691420	13.515300	2.159870	30.596820	1.171450	0.015284	0.151576	0.032754	0.002389	0.001415	0.089379	0.000411	0.008548	0.004759	0.001341	0.013409
14-Sep-2026	8.520525	8.749180	13.629400	2.168240	30.775515	1.182940	0.015375	0.152476	0.032742	0.002407	0.001414	0.089506	0.000415	0.008575	0.004793	0.001350	0.013495
15-Sep-2026	8.373141	9.044670	14.160600	2.213720	31.700640	1.236230	0.015920	0.157913	0.033204	0.002500	0.001421	0.090499	0.000433	0.008810	0.004973	0.001394	0.013940
16-Sep-2026	8.008306	8.806770	13.733300	2.177430	30.957161	1.193390	0.015483	0.153548	0.032822	0.002426	0.001415	0.089696	0.000419	0.008627	0.004828	0.001358	0.013580
17-Sep-2026	7.768680	9.246960	14.533100	2.244280	32.331604	1.273530	0.016282	0.161543	0.033444	0.002560	0.001424	0.090925	0.000445	0.008956	0.005096	0.001425	0.014246
18-Sep-2026	7.178294	8.991840	14.078400	2.204790	31.531950	1.228010	0.015804	0.156776	0.032967	0.002481	0.001416	0.090004	0.000430	0.008745	0.004940	0.001386	0.013860
19-Sep-2026	6.993892	8.882770	13.870900	2.188920	31.194249	1.207120	0.015610	0.154806	0.032827	0.002452	0.001415	0.089903	0.000423	0.008675	0.004874	0.001369	0.013691
20-Sep-2026	7.044384	9.210210	14.483700	2.237700	32.212743	1.268690	0.016189	0.160625	0.033121	0.002548	0.001417	0.090329	0.000444	0.008896	0.005072	0.001419	0.014189
21-Sep-2026	7.124881	9.354450	14.746000	2.259720	32.663589	1.294980	0.016451	0.163235	0.033331	0.002593	0.001420	0.090787	0.000453	0.009005	0.005160	0.001441	0.014406
22-Sep-2026	7.511161	9.286740	14.631200	2.248960	32.450207	1.283520	0.016315	0.161864	0.033109	0.002572	0.001417	0.090413	0.000449	0.008938	0.005118	0.001430	0.014303
23-Sep-2026	7.376586	9.061070	14.206400	2.215670	31.749621	1.240820	0.015913	0.157818	0.032887	0.002508	0.001414	0.090209	0.000435	0.008788	0.004982	0.001396	0.013956
24-Sep-2026	7.006088	9.138600	14.353000	2.227240	31.990859	1.255550	0.016044	0.159125	0.032914	0.002533	0.001414	0.090328	0.000440	0.008837	0.005029	0.001407	0.014071
25-Sep-2026	7.092708	9.176840	14.423400	2.233050	32.110269	1.262630	0.016111	0.159780	0.032939	0.002545	0.001414	0.090447	0.000442	0.008863	0.005052	0.001413	0.014127
26-Sep-2026	6.398778	9.264990	14.586900	2.246200	32.384532	1.279040	0.016269	0.161369	0.033025	0.002571	0.001415	0.090589	0.000447	0.008925	0.005105	0.001426	0.014262
27-Sep-2026	5.499407	9.261710	14.582600	2.245520	32.373541	1.278690	0.016259	0.161269	0.032974	0.002571	0.001414	0.090580	0.000447	0.008919	0.005103	0.001426	0.014255
28-Sep-2026	4.786064	9.292060	14.640800	2.249940	32.467527	1.284540	0.016310	0.161784	0.032976	0.002580	0.001414	0.090583	0.000449	0.008937	0.005122	0.001430	0.014301
29-Sep-2026	4.588600	9.261860	14.585700	2.245440	32.373586	1.278960	0.016253	0.161211	0.032924	0.002571	0.001413	0.090484	0.000448	0.008914	0.005103	0.001425	0.014254
30-Sep-2026	4.344234	9.476000	14.982500	2.277630	33.040852	1.318820	0.016637	0.165057	0.033153	0.002635	0.001416	0.090904	0.000461	0.009065	0.005233	0.001458	0.014579
1-Oct-2026	2.871936	9.271410	14.608500	2.246210	32.400604	1.281450	0.016262	0.161294	0.032827	0.002576	0.001411	0.090441	0.000448	0.008911	0.005109	0.001427	0.014266
2-Oct-2026	2.654163	9.222680	14.520300	2.238580	32.247504	1.272660	0.016174	0.160410	0.032747	0.002562	0.001409	0.090347	0.000445	0.008874	0.005080	0.001419	0.014192
3-Oct-2026	2.585067	9.204350	14.486800	2.235670	32.189751	1.269350	0.016141	0.160079	0.032718	0.002557	0.001409	0.090331	0.000444	0.008860	0.005069	0.001416	0.014164
4-Oct-2026	2.615672	9.168930	14.422300	2.229900	32.077546	1.262980	0.016078	0.159449	0.032670	0.002546	0.001408	0.090156	0.000442	0.008834	0.005047	0.001411	0.014110
5-Oct-2026	2.672142	9.154090	14.395600	2.227350	32.029990	1.260390	0.016052	0.159189	0.032647	0.002542	0.001407	0.090168	0.000441	0.008823	0.005039	0.001409	0.014087
6-Oct-2026	2.875771	9.129920	14.351800	2.223290	31.952918	1.256130	0.016009	0.158760	0.032602	0.002537	0.001406	0.090144	0.000440	0.008805	0.005024	0.001405	0.014049
7-Oct-2026	2.819815	9.126790	14.347400	2.222360	31.941273	1.255740	0.016004	0.158721	0.032602	0.002534	0.001405	0.089996	0.000440	0.008803	0.005023	0.001405	0.014046
8-Oct-2026	2.612741	9.102680	14.304100	2.218200	31.863940	1.251560	0.015961	0.158293	0.032558	0.002529	0.001404	0.089967	0.000438	0.008784	0.005009	0.001401	0.014008
9-Oct-2026	2.045329	9.059040	14.226700	2.210320	31.722521	1.244070	0.015887	0.157568	0.032513	0.002515	0.001402	0.089730	0.000436	0.008752	0.004983	0.001394	0.013944
10-Oct-2026	1.483084	9.061420	14.231600	2.210500	31.729205	1.244590	0.015891	0.157601	0.032501	0.002515	0.001402	0.089716	0.000436	0.008753	0.004984	0.001395	0.013947
11-Oct-2026	0.958296	9.021170	14.160000	2.203390	31.599422	1.237660	0.015821	0.156907	0.032438	0.002504	0.001400	0.089563	0.000434	0.008723	0.004961	0.001389	0.013886
12-Oct-2026	0.860433	9.010430	14.141300	2.201330	31.564121	1.235880	0.015802	0.156726	0.032420	0.002500	0.001399	0.089500	0.000433	0.008714	0.004955	0.001387	0.013870
13-Oct-2026	0.910552	8.994130	14.112500	2.198350	31.511148	1.233100	0.015774	0.156448	0.032397	0.002496	0.001398	0.089468	0.000432	0.008702	0.004945	0.001385	0.013846
14-Oct-2026	0.871988	8.977780	14.083400	2.195400	31.458174	1.230300	0.015746	0.156166	0.032373	0.002491	0.001397	0.089461	0.000431	0.008690	0.004936	0.001382	0.013821
15-Oct-2026	0.853406	8.970500	14.070600	2.194070	31.434519	1.229090	0.015733	0.156039	0.032360	0.002489	0.001397	0.089358	0.000431	0.008684	0.004931	0.001381	0.013810
16-Oct-2026	0.865864	8.968330	14.066600	2.193680	31.427494	1.228700	0.015729	0.156001	0.032355	0.002489	0.001397	0.089394	0.000431	0.008682	0.004930	0.001381	0.013806
17-Oct-2026	0.853836	9.043790	14.181300	2.213320	31.696795	1.238420	0.015863	0.157328	0.032674	0.002510	0.001411	0.090171	0.000434	0.008760	0.004971	0.001392	0.013924
18-Oct-2026	0.851778	9.117770	14.298100	2.231150	31.954947	1.248700	0.015991	0.158602	0.032918	0.002530	0.001421	0.090915	0.000438	0.008830	0.005012	0.001404	0.014037
19-Oct-2026	0.850635	9.172940	14.385300	2.244450	32.147476	1.256340	0.016089	0.159567	0.033118	0.002545	0.001430	0.091431	0.000440	0.008883	0.005042	0.001412	0.014122
20-Oct-2026	0.851333	9.258980	14.521300	2.265160	32.447602	1.268330	0.016239	0.161054	0.033408	0.002569	0.001443	0.092276	0.000444	0.008965	0.005090	0.001425	0.014254
21-Oct-2026	0.856538	9.212330	14.447100	2.254080	32.285489	1.261750	0.016157	0.160250	0.033258	0.002556	0.001436	0.091829	0.000442	0.008921	0.005064	0.001418	0.014183
22-Oct-2026	0.860315	9.198870	14.424600	2.251210	32.240061	1.259660	0.016134	0.160023	0.033230	0.002552	0.001435	0.091720	0.000441	0.008910	0.005056	0.001416	0.014162
23-Oct-2026	0.857078	9.238990	14.487700	2.260980	32.380474	1.265180	0.016205	0.160721	0.033374	0.002563	0.001441	0.092115	0.000443	0.008948	0.005078	0.001422	0.014224
24-Oct-2026	0.854057	9.274510	14.542300	2.270020	32.506394	1.269860	0.016267	0.161342	0.033515	0.002572	0.001447	0.092497	0.000445	0.008984	0.005098	0.001428	0.014279
25-Oct-2026	0.849564	9.335500	14.638400	2.284800	32.719550	1.278290	0.016374	0.162401	0.033731	0.002589	0.001456	0.093095	0.000448	0.009043	0.005131	0.001437	0.014373
26-Oct-2026	0.848191	9.375830	14.701700	2.294740	32.861187	1.283830	0.016445	0.163102	0.033879	0.002601	0.001463	0.093503	0.000450	0.009082	0.005153	0.001444	0.014435
27-Oct-2026	0.846851	9.410700	14.756700	2.303080	32.982601	1.288660	0.016506	0.163709	0.033997	0.002610	0.001468	0.093832	0.000452	0.009115	0.005173	0.001449	0.014489
28-Oct-2026	0.847233	9.451240	14.820000	2.313080	33.125010	1.294160	0.016577	0.164414	0.034146	0.002622	0.001474	0.094243	0.000454	0.009155	0.005195	0.001455	0.014551
29-Oct-2026	0.848018	9.468250	14.845900	2.317510	33.185726	1.296360	0.016607	0.164711	0.034215	0.002626	0.001477	0.094436	0.000454	0.009172	0.005204	0.001458	0.014577
30-Oct-2026	0.847015	9.495350	14.888400	2.324130	33.280656	1.300070	0.016654	0.165181	0.034312	0.002634	0.001481	0.094708	0.000456	0.009198	0.005219	0.001462	0.014619

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Oct-2026	0.844762	9.531090	14.945600	2.332510	33.404408	1.305160	0.016717	0.165801	0.034428	0.002644	0.001486	0.095033	0.000457	0.009231	0.005239	0.001467	0.014674
1-Nov-2026	0.845150	9.569830	15.007200	2.341740	33.539151	1.310610	0.016785	0.166473	0.034559	0.002655	0.001492	0.095399	0.000459	0.009268	0.005260	0.001473	0.014733
2-Nov-2026	0.841946	9.627110	15.096500	2.355900	33.740490	1.318370	0.016885	0.167470	0.034770	0.002671	0.001501	0.095984	0.000462	0.009324	0.005292	0.001482	0.014822
3-Nov-2026	0.838087	9.595580	15.047100	2.348180	33.629969	1.314060	0.016830	0.166920	0.034655	0.002662	0.001496	0.095709	0.000460	0.009293	0.005274	0.001477	0.014773
4-Nov-2026	0.836662	9.652100	15.135500	2.362080	33.828339	1.321770	0.016929	0.167903	0.034860	0.002678	0.001505	0.096242	0.000463	0.009348	0.005305	0.001486	0.014860
5-Nov-2026	0.836052	9.707410	15.222500	2.375540	34.021876	1.329380	0.017026	0.168865	0.035057	0.002693	0.001514	0.096788	0.000466	0.009402	0.005336	0.001494	0.014945
6-Nov-2026	0.832872	9.760360	15.305900	2.388370	34.206927	1.336700	0.017119	0.169785	0.035244	0.002708	0.001522	0.097305	0.000468	0.009452	0.005365	0.001503	0.015026
7-Nov-2026	0.832825	9.808900	15.382100	2.400240	34.377012	1.343350	0.017204	0.170629	0.035419	0.002721	0.001529	0.097790	0.000471	0.009499	0.005392	0.001510	0.015101
8-Nov-2026	0.832399	9.857050	15.457500	2.412030	34.545793	1.349940	0.017288	0.171466	0.035592	0.002735	0.001537	0.098272	0.000473	0.009546	0.005418	0.001518	0.015175
9-Nov-2026	0.829785	9.902330	15.528600	2.423090	34.704403	1.356150	0.017368	0.172253	0.035755	0.002747	0.001544	0.098722	0.000475	0.009590	0.005443	0.001524	0.015245
10-Nov-2026	0.827784	9.949190	15.602000	2.434580	34.868728	1.362560	0.017450	0.173068	0.035924	0.002760	0.001551	0.099192	0.000477	0.009635	0.005469	0.001532	0.015317
11-Nov-2026	0.826196	9.994810	15.673200	2.445840	35.029010	1.368760	0.017530	0.173862	0.036091	0.002773	0.001558	0.099657	0.000480	0.009680	0.005494	0.001539	0.015387
12-Nov-2026	0.824914	10.040000	15.743900	2.456960	35.187641	1.374920	0.017609	0.174647	0.036255	0.002786	0.001565	0.100116	0.000482	0.009724	0.005519	0.001546	0.015457
13-Nov-2026	0.823234	10.076600	15.801400	2.465890	35.315805	1.379940	0.017673	0.175283	0.036386	0.002796	0.001571	0.100481	0.000484	0.009759	0.005539	0.001551	0.015513
14-Nov-2026	0.820940	10.120000	15.869500	2.476500	35.467867	1.385900	0.017749	0.176037	0.036541	0.002808	0.001578	0.100914	0.000486	0.009801	0.005563	0.001558	0.015580
15-Nov-2026	0.821213	10.159000	15.930300	2.486110	35.604824	1.391200	0.017818	0.176714	0.036683	0.002819	0.001584	0.101313	0.000488	0.009839	0.005584	0.001564	0.015640
16-Nov-2026	0.821644	10.201400	15.996500	2.496630	35.754018	1.396940	0.017892	0.177451	0.036838	0.002831	0.001591	0.101753	0.000490	0.009880	0.005607	0.001570	0.015705
17-Nov-2026	0.820079	10.231100	16.042700	2.504020	35.858611	1.400960	0.017944	0.177966	0.036947	0.002839	0.001596	0.102065	0.000491	0.009909	0.005623	0.001575	0.015751
18-Nov-2026	0.818464	10.267900	16.100200	2.513040	35.987645	1.405980	0.018008	0.178605	0.037079	0.002849	0.001601	0.102435	0.000493	0.009945	0.005644	0.001581	0.015807
19-Nov-2026	0.819860	10.306500	16.160700	2.522520	36.123068	1.411250	0.018076	0.179276	0.037218	0.002860	0.001607	0.102826	0.000495	0.009983	0.005665	0.001587	0.015866
20-Nov-2026	0.820071	10.348300	16.226200	2.532740	36.269528	1.416970	0.018149	0.180002	0.037369	0.002872	0.001614	0.103243	0.000497	0.010023	0.005688	0.001593	0.015931
21-Nov-2026	0.817357	10.398100	16.304400	2.544930	36.444077	1.423810	0.018237	0.180869	0.037548	0.002886	0.001622	0.103740	0.000499	0.010071	0.005715	0.001601	0.016007
22-Nov-2026	0.815173	10.450300	16.386200	2.557680	36.626925	1.430950	0.018328	0.181775	0.037735	0.002900	0.001630	0.104261	0.000501	0.010122	0.005744	0.001609	0.016088
23-Nov-2026	0.815529	10.502600	16.468300	2.570520	36.810394	1.438120	0.018420	0.182686	0.037924	0.002915	0.001638	0.104788	0.000504	0.010172	0.005773	0.001617	0.016168
24-Nov-2026	0.814907	10.447400	16.381500	2.557020	36.616966	1.430540	0.018323	0.181724	0.037724	0.002900	0.001629	0.104240	0.000501	0.010119	0.005742	0.001608	0.016083
25-Nov-2026	0.812874	10.489500	16.447400	2.567370	36.764711	1.436280	0.018397	0.182455	0.037877	0.002911	0.001636	0.104667	0.000503	0.010160	0.005765	0.001615	0.016148
26-Nov-2026	0.811797	10.533600	16.516500	2.578230	36.919550	1.442310	0.018474	0.183222	0.038036	0.002924	0.001643	0.105114	0.000505	0.010203	0.005790	0.001622	0.016216
27-Nov-2026	0.812777	10.576600	16.583600	2.588800	37.070449	1.448160	0.018549	0.183969	0.038192	0.002936	0.001650	0.105552	0.000507	0.010244	0.005813	0.001628	0.016282
28-Nov-2026	0.812874	10.619100	16.650100	2.599300	37.219810	1.453950	0.018624	0.184708	0.038346	0.002948	0.001656	0.105987	0.000510	0.010286	0.005837	0.001635	0.016347
29-Nov-2026	0.811560	10.663700	16.719900	2.610250	37.376268	1.460030	0.018702	0.185483	0.038507	0.002960	0.001663	0.106438	0.000512	0.010329	0.005861	0.001642	0.016416
30-Nov-2026	0.811727	10.704500	16.783800	2.620260	37.519367	1.465610	0.018773	0.186192	0.038655	0.002971	0.001670	0.106849	0.000514	0.010369	0.005883	0.001648	0.016479
1-Dec-2026	0.811960	10.749300	16.853600	2.631310	37.676737	1.471690	0.018852	0.186968	0.038817	0.002984	0.001677	0.107310	0.000516	0.010412	0.005908	0.001655	0.016547
2-Dec-2026	0.811284	10.772700	16.889900	2.637160	37.759257	1.474840	0.018893	0.187374	0.038902	0.002991	0.001681	0.107560	0.000517	0.010435	0.005921	0.001658	0.016583
3-Dec-2026	0.810198	10.819400	16.963100	2.648630	37.923100	1.481220	0.018975	0.188186	0.039071	0.003004	0.001688	0.108030	0.000519	0.010481	0.005946	0.001666	0.016655
4-Dec-2026	0.810446	10.872500	17.046300	2.661650	38.109307	1.488480	0.019068	0.189110	0.039263	0.003018	0.001696	0.108564	0.000522	0.010532	0.005976	0.001674	0.016737
5-Dec-2026	0.810300	10.934700	17.143700	2.676900	38.327420	1.496980	0.019177	0.190190	0.039487	0.003036	0.001706	0.109189	0.000525	0.010592	0.006010	0.001683	0.016833
6-Dec-2026	0.809558	11.002400	17.249800	2.693500	38.564826	1.506240	0.019295	0.191368	0.039732	0.003055	0.001717	0.109869	0.000528	0.010658	0.006047	0.001694	0.016937
7-Dec-2026	0.809004	11.075000	17.363700	2.711270	38.819285	1.516190	0.019423	0.192630	0.039994	0.003075	0.001728	0.110594	0.000531	0.010728	0.006087	0.001705	0.017049
8-Dec-2026	0.808428	11.151500	17.483500	2.730000	39.087436	1.526650	0.019557	0.193960	0.040270	0.003096	0.001740	0.111359	0.000535	0.010802	0.006129	0.001717	0.017166
9-Dec-2026	0.808078	11.231200	17.608600	2.749500	39.366747	1.537570	0.019697	0.195346	0.040557	0.003118	0.001752	0.112155	0.000539	0.010879	0.006173	0.001729	0.017289
10-Dec-2026	0.808227	11.286600	17.695400	2.763030	39.560798	1.545160	0.019794	0.196309	0.040756	0.003134	0.001761	0.112707	0.000541	0.010933	0.006203	0.001737	0.017374
11-Dec-2026	0.808111	11.023900	17.283300	2.698830	38.640460	1.509160	0.019333	0.191738	0.039807	0.003061	0.001720	0.110098	0.000529	0.010679	0.006059	0.001697	0.016970
12-Dec-2026	0.807447	11.102100	17.405700	2.718010	38.914709	1.519840	0.019470	0.193098	0.040091	0.003083	0.001732	0.110884	0.000533	0.010755	0.006102	0.001709	0.017090
13-Dec-2026	0.807218	10.989500	17.226300	2.691400	38.523967	1.503980	0.019272	0.191127	0.039693	0.003053	0.001716	0.109889	0.000527	0.010648	0.006039	0.001692	0.016916
14-Dec-2026	0.806379	11.060400	17.336800	2.708950	38.773275	1.513590	0.019396	0.192358	0.039951	0.003073	0.001727	0.110623	0.000530	0.010717	0.006078	0.001702	0.017025
15-Dec-2026	0.806427	11.041400	17.308400	2.703870	38.704912	1.511200	0.019363	0.192031	0.039875	0.003067	0.001724	0.110379	0.000530	0.010697	0.006068	0.001700	0.016996
16-Dec-2026	0.806542	11.087300	17.379700	2.715280	38.866511	1.517400	0.019443	0.192828	0.040044	0.003080	0.001731	0.110860	0.000532	0.010742	0.006093	0.001707	0.017066
17-Dec-2026	0.806062	11.171700	17.511500	2.736120	39.163077	1.528870	0.019591	0.194294	0.040351	0.003103	0.001744	0.111726	0.000536	0.010825	0.006139	0.001720	0.017196
18-Dec-2026	0.805977	11.208300	17.569600	2.744840	39.290376	1.533980	0.019655	0.194932	0.040480	0.003113	0.001750	0.112062	0.000538	0.010859	0.006160	0.001725	0.017252
19-Dec-2026	0.805817	11.286600	17.692000	2.764140	39.565369	1.544650	0.019793	0.196293	0.040764	0.003135	0.001762	0.112859	0.000541	0.010936	0.006203	0.001737	0.017373
20-Dec-2026	0.805048	11.374300	17.829000	2.785760	39.873387	1.556580	0.019946	0.197817	0.041083	0.003160	0.001776	0.113754	0.000546	0.011021	0.006251	0.001751	0.017508
21-Dec-2026	0.804937	11.405600	17.878800	2.793170	39.982057	1.560980	0.020001	0.198363	0.041192	0.003168	0.001781	0.114036	0.000547	0.011051	0.006268	0.001756	0.017556

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
22-Dec-2026	0.804984	11.484400	18.002100	2.812560	40.258669	1.571730	0.020139	0.199733	0.041478	0.003190	0.001793	0.114835	0.000551	0.011127	0.006311	0.001768	0.017677
23-Dec-2026	0.804660	11.569500	18.135100	2.833500	40.557395	1.583320	0.020289	0.201212	0.041787	0.003214	0.001807	0.115700	0.000555	0.011210	0.006358	0.001781	0.017808
24-Dec-2026	0.804384	11.602400	18.187400	2.841360	40.671913	1.587920	0.020346	0.201786	0.041903	0.003223	0.001811	0.116003	0.000557	0.011241	0.006376	0.001786	0.017859
25-Dec-2026	0.804411	11.672600	18.297300	2.858570	40.918073	1.597510	0.020469	0.203006	0.042157	0.003242	0.001822	0.116708	0.000560	0.011309	0.006415	0.001797	0.017967
26-Dec-2026	0.803999	11.751200	18.420400	2.877910	41.193980	1.608240	0.020607	0.204374	0.042442	0.003264	0.001835	0.117504	0.000564	0.011386	0.006458	0.001809	0.018088
27-Dec-2026	0.803699	11.767400	18.446300	2.881660	41.249874	1.610550	0.020636	0.204656	0.042497	0.003269	0.001837	0.117640	0.000564	0.011401	0.006467	0.001811	0.018113
28-Dec-2026	0.803743	11.824800	18.536400	2.895730	41.451142	1.618420	0.020737	0.205655	0.042704	0.003285	0.001846	0.118214	0.000567	0.011456	0.006499	0.001820	0.018201
29-Dec-2026	0.803637	11.895100	18.646300	2.913000	41.697799	1.628000	0.020860	0.206876	0.042959	0.003304	0.001857	0.118926	0.000571	0.011525	0.006537	0.001831	0.018309
30-Dec-2026	0.803198	11.922400	18.689500	2.919580	41.793063	1.631790	0.020908	0.207353	0.043056	0.003312	0.001861	0.119184	0.000572	0.011551	0.006552	0.001835	0.018352
31-Dec-2026	0.803246	11.962000	18.751700	2.929230	41.931683	1.637240	0.020977	0.208043	0.043199	0.003323	0.001867	0.119573	0.000574	0.011589	0.006574	0.001841	0.018413
1-Jan-2027	0.803102	12.033400	18.863300	2.946780	42.182240	1.646970	0.021102	0.209282	0.043457	0.003342	0.001879	0.120297	0.000577	0.011658	0.006613	0.001852	0.018522
2-Jan-2027	0.802663	12.076400	18.931000	2.957290	42.332891	1.652880	0.021178	0.210032	0.043612	0.003354	0.001885	0.120723	0.000579	0.011700	0.006637	0.001859	0.018589
3-Jan-2027	0.802698	12.104400	18.975100	2.964060	42.430686	1.656750	0.021227	0.210519	0.043712	0.003362	0.001889	0.120992	0.000581	0.011727	0.006652	0.001863	0.018632
4-Jan-2027	0.802552	12.176600	19.087900	2.981850	42.684229	1.666570	0.021353	0.211773	0.043974	0.003382	0.001901	0.121729	0.000584	0.011797	0.006692	0.001874	0.018743
5-Jan-2027	0.802419	12.226000	19.165200	2.994010	42.857655	1.673310	0.021440	0.212633	0.044153	0.003396	0.001909	0.122230	0.000586	0.011845	0.006719	0.001882	0.018819
6-Jan-2027	0.802318	12.258800	19.216900	3.001940	42.972213	1.677840	0.021498	0.213204	0.044271	0.003405	0.001914	0.122545	0.000588	0.011877	0.006737	0.001887	0.018869
7-Jan-2027	0.802165	12.334500	19.335300	3.020600	43.238077	1.688160	0.021630	0.214520	0.044545	0.003426	0.001926	0.123317	0.000592	0.011950	0.006779	0.001899	0.018986
8-Jan-2027	0.801695	12.378800	19.404500	3.031500	43.393581	1.694190	0.021708	0.215289	0.044706	0.003439	0.001933	0.123766	0.000594	0.011993	0.006803	0.001905	0.019054
9-Jan-2027	0.801667	12.384800	19.414500	3.032770	43.413792	1.695110	0.021719	0.215395	0.044725	0.003440	0.001933	0.123801	0.000594	0.011999	0.006806	0.001906	0.019063
10-Jan-2027	0.801642	12.458100	19.529000	3.050810	43.671111	1.705090	0.021847	0.216668	0.044991	0.003460	0.001945	0.124547	0.000598	0.012070	0.006847	0.001918	0.019176
11-Jan-2027	0.801475	12.515400	19.618600	3.064950	43.872418	1.712890	0.021947	0.217664	0.045199	0.003476	0.001954	0.125133	0.000600	0.012126	0.006878	0.001926	0.019264
12-Jan-2027	0.801062	12.557900	19.685500	3.075310	44.021203	1.718740	0.022022	0.218405	0.045352	0.003488	0.001961	0.125550	0.000602	0.012167	0.006901	0.001933	0.019330
13-Jan-2027	0.801179	12.599000	19.749900	3.085300	44.164968	1.724370	0.022094	0.219118	0.045499	0.003500	0.001967	0.125954	0.000604	0.012206	0.006924	0.001939	0.019393
14-Jan-2027	0.801041	12.663800	19.851000	3.101310	44.392703	1.733170	0.022208	0.220244	0.045735	0.003518	0.001977	0.126621	0.000607	0.012270	0.006960	0.001949	0.019493
15-Jan-2027	0.800590	12.706000	19.917200	3.111690	44.540821	1.738940	0.022282	0.220978	0.045888	0.003530	0.001984	0.127047	0.000609	0.012311	0.006983	0.001956	0.019558
16-Jan-2027	0.800350	12.752700	19.990300	3.123160	44.704665	1.745320	0.022364	0.221791	0.046057	0.003543	0.001991	0.127518	0.000612	0.012356	0.007008	0.001963	0.019629
17-Jan-2027	0.800202	12.811600	20.082600	3.137600	44.911202	1.753370	0.022467	0.222814	0.046270	0.003559	0.002000	0.128110	0.000614	0.012413	0.007041	0.001972	0.019720
18-Jan-2027	0.799961	12.877400	20.185200	3.153820	45.142299	1.762310	0.022582	0.223956	0.046509	0.003577	0.002011	0.128782	0.000618	0.012477	0.007077	0.001982	0.019821
19-Jan-2027	0.799656	12.922600	20.256200	3.164860	45.300626	1.768510	0.022661	0.224743	0.046672	0.003590	0.002018	0.129230	0.000620	0.012521	0.007102	0.001989	0.019891
20-Jan-2027	0.799546	12.967100	20.326300	3.175680	45.456299	1.774650	0.022739	0.225518	0.046831	0.003602	0.002025	0.129664	0.000622	0.012564	0.007126	0.001996	0.019959
21-Jan-2027	0.799475	13.007400	20.389400	3.185590	45.597737	1.780150	0.022810	0.226219	0.046977	0.003613	0.002031	0.130072	0.000624	0.012603	0.007148	0.002002	0.020021
22-Jan-2027	0.799225	13.052200	20.459700	3.196530	45.754654	1.786300	0.022889	0.226999	0.047138	0.003626	0.002038	0.130516	0.000626	0.012646	0.007173	0.002009	0.020090
23-Jan-2027	0.799057	13.108100	20.547500	3.210170	45.950406	1.793970	0.022987	0.227971	0.047340	0.003641	0.002047	0.131069	0.000629	0.012700	0.007204	0.002018	0.020177
24-Jan-2027	0.798913	13.146700	20.608300	3.219540	46.085376	1.799300	0.023054	0.228643	0.047478	0.003652	0.002052	0.131444	0.000631	0.012737	0.007225	0.002024	0.020236
25-Jan-2027	0.798795	13.183400	20.666100	3.228410	46.213542	1.804370	0.023119	0.229283	0.047609	0.003662	0.002058	0.131796	0.000632	0.012773	0.007245	0.002029	0.020293
26-Jan-2027	0.798701	13.238700	20.753000	3.241890	46.407137	1.811970	0.023216	0.230245	0.047808	0.003677	0.002067	0.132342	0.000635	0.012826	0.007276	0.002038	0.020378
27-Jan-2027	0.798622	13.290200	20.833800	3.254440	46.587413	1.819040	0.023306	0.231140	0.047993	0.003692	0.002075	0.132849	0.000638	0.012876	0.007304	0.002046	0.020457
28-Jan-2027	0.798574	13.343100	20.917100	3.267360	46.772709	1.826320	0.023399	0.232062	0.048183	0.003706	0.002083	0.133373	0.000640	0.012927	0.007333	0.002054	0.020539
29-Jan-2027	0.798545	13.402200	21.009700	3.281780	46.979663	1.834410	0.023503	0.233089	0.048396	0.003723	0.002092	0.133958	0.000643	0.012984	0.007366	0.002063	0.020629
30-Jan-2027	0.798488	13.484300	21.138500	3.301870	47.267398	1.845670	0.023647	0.234518	0.048692	0.003745	0.002105	0.134777	0.000647	0.013064	0.007411	0.002076	0.020756
31-Jan-2027	0.798441	13.566400	21.267300	3.321960	47.555132	1.856910	0.023791	0.235946	0.048988	0.003768	0.002118	0.135595	0.000651	0.013143	0.007456	0.002088	0.020882
1-Feb-2027	0.798406	13.654300	21.405900	3.343250	47.862291	1.869060	0.023945	0.237479	0.049304	0.003792	0.002131	0.136442	0.000655	0.013228	0.007504	0.002102	0.021018
2-Feb-2027	0.798383	13.790200	21.618900	3.376520	48.338639	1.887660	0.024183	0.239841	0.049794	0.003830	0.002152	0.137799	0.000662	0.013359	0.007579	0.002123	0.021227
3-Feb-2027	0.798372	13.929200	21.836700	3.410540	48.825816	1.906680	0.024427	0.242258	0.050296	0.003869	0.002174	0.139188	0.000668	0.013494	0.007655	0.002144	0.021441
4-Feb-2027	0.798370	14.069300	22.056400	3.444840	49.316893	1.925860	0.024673	0.244695	0.050802	0.003907	0.002196	0.140587	0.000675	0.013630	0.007732	0.002166	0.021657
5-Feb-2027	0.798370	14.209400	22.276100	3.479160	49.808053	1.945050	0.024919	0.247133	0.051308	0.003946	0.002218	0.141988	0.000682	0.013765	0.007809	0.002187	0.021872
6-Feb-2027	0.798360	14.349400	22.495600	3.513430	50.298757	1.964210	0.025164	0.249567	0.051813	0.003985	0.002239	0.143386	0.000688	0.013901	0.007886	0.002209	0.022088
7-Feb-2027	0.798334	14.486800	22.710900	3.547060	50.780333	1.983010	0.025405	0.251956	0.052309	0.004023	0.002261	0.144758	0.000695	0.014034	0.007962	0.002230	0.022299
8-Feb-2027	0.798297	14.592700	22.877100	3.572990	51.151545	1.997520	0.025591	0.253799	0.052692	0.004053	0.002277	0.145816	0.000700	0.014137	0.008020	0.002246	0.022462
9-Feb-2027	0.798274	14.692800	23.034000	3.597490	51.502385	2.011230	0.025766	0.255540	0.053053	0.004081	0.002293	0.146815	0.000705	0.014234	0.008075	0.002262	0.022616
10-Feb-2027	0.798259	14.773900	23.161200	3.617340	51.786634	2.022340	0.025909	0.256951	0.053346	0.004103	0.002306	0.147625	0.000709	0.014312	0.008120	0.002274	0.022741
11-Feb-2027	0.798235	14.883500	23.333100	3.644170	52.170792	2.037340	0.026101	0.258857	0.053741	0.004134	0.002323	0.148719	0.000714	0.014418	0.008180	0.002291	0.022910

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
12-Feb-2027	0.798210	15.027000	23.558000	3.679310	52.673818	2.056980	0.026352	0.261353	0.054259	0.004173	0.002345	0.150154	0.000721	0.014557	0.008259	0.002313	0.023131
13-Feb-2027	0.798192	15.184100	23.804200	3.717770	53.224475	2.078480	0.026628	0.264085	0.054826	0.004217	0.002370	0.151723	0.000728	0.014709	0.008345	0.002337	0.023373
14-Feb-2027	0.798179	15.334600	24.040200	3.754620	53.752021	2.099090	0.026892	0.266702	0.055370	0.004259	0.002393	0.153227	0.000736	0.014855	0.008428	0.002360	0.023604
15-Feb-2027	0.798176	15.495600	24.292700	3.794050	54.316411	2.121130	0.027174	0.269503	0.055951	0.004304	0.002418	0.154836	0.000743	0.015011	0.008516	0.002385	0.023852
16-Feb-2027	0.798170	15.683100	24.586600	3.839950	54.973615	2.146800	0.027503	0.272764	0.056628	0.004356	0.002448	0.156709	0.000752	0.015193	0.008619	0.002414	0.024141
17-Feb-2027	0.798161	15.845200	24.840700	3.879630	55.541781	2.168990	0.027787	0.275583	0.057213	0.004401	0.002473	0.158328	0.000760	0.015350	0.008708	0.002439	0.024390
18-Feb-2027	0.798156	16.037600	25.142300	3.926710	56.216079	2.195320	0.028125	0.278928	0.057908	0.004454	0.002503	0.160249	0.000769	0.015536	0.008814	0.002469	0.024686
19-Feb-2027	0.798150	16.247600	25.471600	3.978150	56.952279	2.224080	0.028493	0.282582	0.058666	0.004512	0.002536	0.162348	0.000779	0.015740	0.008930	0.002501	0.025010
20-Feb-2027	0.798143	16.436800	25.768100	4.024470	57.615457	2.249970	0.028825	0.285872	0.059349	0.004565	0.002565	0.164238	0.000789	0.015923	0.009033	0.002530	0.025301
21-Feb-2027	0.798132	16.130000	25.287100	3.949340	56.539992	2.207970	0.028287	0.280535	0.058241	0.004480	0.002517	0.161173	0.000774	0.015626	0.008865	0.002483	0.024828
22-Feb-2027	0.798103	15.501200	24.301200	3.795480	54.336283	2.121860	0.027184	0.269599	0.055972	0.004305	0.002419	0.154901	0.000744	0.015017	0.008519	0.002386	0.023861
23-Feb-2027	0.798106	15.612700	24.475900	3.822760	54.727038	2.137130	0.027379	0.271537	0.056374	0.004336	0.002437	0.156015	0.000749	0.015125	0.008581	0.002403	0.024032
24-Feb-2027	0.798093	15.703800	24.618900	3.845080	55.046428	2.149600	0.027539	0.273123	0.056703	0.004362	0.002451	0.156925	0.000753	0.015213	0.008631	0.002417	0.024172
25-Feb-2027	0.798085	15.824200	24.807600	3.874550	55.468424	2.166090	0.027750	0.275217	0.057138	0.004395	0.002470	0.158127	0.000759	0.015330	0.008697	0.002436	0.024358
26-Feb-2027	0.798085	15.951300	25.006800	3.905660	55.913904	2.183480	0.027973	0.277427	0.057596	0.004430	0.002489	0.159397	0.000765	0.015453	0.008767	0.002455	0.024553
27-Feb-2027	0.798076	16.086500	25.218800	3.938760	56.387804	2.201990	0.028210	0.279778	0.058084	0.004468	0.002511	0.160747	0.000772	0.015584	0.008841	0.002476	0.024762
28-Feb-2027	0.798067	16.231400	25.446000	3.974240	56.895726	2.221830	0.028464	0.282298	0.058608	0.004508	0.002533	0.162195	0.000779	0.015724	0.008921	0.002498	0.024985
1-Mar-2027	0.798061	16.383000	25.683600	4.011360	57.427131	2.242580	0.028730	0.284935	0.059155	0.004550	0.002557	0.163710	0.000786	0.015871	0.009004	0.002522	0.025218
2-Mar-2027	0.798054	16.541200	25.931700	4.050100	57.981688	2.264230	0.029008	0.287687	0.059726	0.004594	0.002581	0.165291	0.000794	0.016024	0.009091	0.002546	0.025461
3-Mar-2027	0.798049	16.714300	26.202900	4.092470	58.588399	2.287920	0.029311	0.290696	0.060351	0.004642	0.002608	0.167020	0.000802	0.016192	0.009186	0.002573	0.025728
4-Mar-2027	0.798050	16.899300	26.493100	4.137780	59.236930	2.313260	0.029636	0.293915	0.061019	0.004694	0.002637	0.168870	0.000811	0.016371	0.009288	0.002601	0.026013
5-Mar-2027	0.798050	17.080700	26.777400	4.182180	59.872725	2.338080	0.029954	0.297069	0.061674	0.004744	0.002666	0.170682	0.000819	0.016547	0.009387	0.002629	0.026292
6-Mar-2027	0.798046	17.264300	27.065300	4.227140	60.516320	2.363220	0.030276	0.300263	0.062337	0.004795	0.002694	0.172516	0.000828	0.016725	0.009488	0.002657	0.026574
7-Mar-2027	0.798041	17.466500	27.382300	4.276660	61.225136	2.390890	0.030630	0.303780	0.063067	0.004851	0.002726	0.174537	0.000838	0.016921	0.009599	0.002689	0.026886
8-Mar-2027	0.798040	17.673700	27.707000	4.327380	61.951380	2.419250	0.030994	0.307383	0.063815	0.004909	0.002758	0.176608	0.000848	0.017121	0.009713	0.002720	0.027205
9-Mar-2027	0.798039	17.877100	28.025900	4.377190	62.664387	2.447100	0.031350	0.310921	0.064550	0.004965	0.002790	0.178640	0.000858	0.017318	0.009825	0.002752	0.027518
10-Mar-2027	0.798041	18.082400	28.347800	4.427460	63.384033	2.475200	0.031710	0.314492	0.065291	0.005022	0.002822	0.180692	0.000867	0.017517	0.009938	0.002783	0.027834
11-Mar-2027	0.798041	18.293700	28.679000	4.479190	64.124673	2.504120	0.032081	0.318166	0.066054	0.005081	0.002855	0.182803	0.000878	0.017722	0.010054	0.002816	0.028159
12-Mar-2027	0.798038	18.507900	29.014800	4.531630	64.875479	2.533440	0.032457	0.321891	0.066827	0.005140	0.002888	0.184943	0.000888	0.017929	0.010172	0.002849	0.028489
13-Mar-2027	0.798050	15.518300	24.328400	3.799510	54.395577	2.124270	0.027214	0.269897	0.056031	0.004310	0.002422	0.155053	0.000744	0.015033	0.008529	0.002389	0.023887
14-Mar-2027	0.798046	15.533400	24.352200	3.803210	54.448519	2.126350	0.027241	0.270160	0.056086	0.004314	0.002424	0.155204	0.000745	0.015048	0.008537	0.002391	0.023910
15-Mar-2027	0.798043	15.616100	24.481700	3.823440	54.738328	2.137660	0.027385	0.271597	0.056384	0.004337	0.002437	0.156029	0.000749	0.015128	0.008582	0.002404	0.024037
16-Mar-2027	0.798039	15.653700	24.540800	3.832660	54.870183	2.142820	0.027452	0.272253	0.056520	0.004347	0.002443	0.156406	0.000751	0.015164	0.008603	0.002410	0.024095
17-Mar-2027	0.798036	15.693200	24.602600	3.842310	55.008553	2.148220	0.027521	0.272939	0.056662	0.004358	0.002449	0.156799	0.000753	0.015202	0.008625	0.002416	0.024156
18-Mar-2027	0.798035	15.740000	24.676100	3.853790	55.172687	2.154630	0.027603	0.273754	0.056831	0.004371	0.002456	0.157267	0.000755	0.015248	0.008651	0.002423	0.024228
19-Mar-2027	0.798034	15.816400	24.795800	3.872480	55.440423	2.165090	0.027737	0.275082	0.057107	0.004393	0.002468	0.158030	0.000759	0.015322	0.008693	0.002435	0.024346
20-Mar-2027	0.798033	15.922400	24.962000	3.898430	55.811968	2.179600	0.027923	0.276925	0.057490	0.004422	0.002485	0.159089	0.000764	0.015424	0.008751	0.002451	0.024509
21-Mar-2027	0.798032	16.039300	25.145300	3.927050	56.221724	2.195600	0.028128	0.278959	0.057912	0.004455	0.002503	0.160257	0.000769	0.015538	0.008815	0.002469	0.024689
22-Mar-2027	0.798032	16.172300	25.353800	3.959630	56.687989	2.213810	0.028361	0.281272	0.058392	0.004491	0.002524	0.161586	0.000776	0.015667	0.008888	0.002489	0.024894
23-Mar-2027	0.798033	16.308500	25.567400	3.992980	57.165416	2.232460	0.028600	0.283641	0.058884	0.004529	0.002545	0.162947	0.000782	0.015798	0.008963	0.002510	0.025103
24-Mar-2027	0.798032	16.435100	25.765800	4.023970	57.609153	2.249790	0.028822	0.285843	0.059341	0.004564	0.002565	0.164212	0.000788	0.015921	0.009033	0.002530	0.025298
25-Mar-2027	0.798033	16.555400	25.954400	4.053420	58.030817	2.266250	0.029033	0.287935	0.059775	0.004598	0.002583	0.165414	0.000794	0.016038	0.009099	0.002548	0.025483
26-Mar-2027	0.798033	16.682100	26.153000	4.084440	58.474928	2.283590	0.029255	0.290139	0.060233	0.004633	0.002603	0.166680	0.000800	0.016160	0.009168	0.002568	0.025678
27-Mar-2027	0.798033	16.808600	26.351300	4.115410	58.918333	2.300910	0.029477	0.292339	0.060690	0.004668	0.002623	0.167944	0.000806	0.016283	0.009238	0.002587	0.025873
28-Mar-2027	0.798033	16.954200	26.579600	4.151060	59.428702	2.320840	0.029732	0.294871	0.061215	0.004709	0.002646	0.169398	0.000813	0.016424	0.009318	0.002610	0.026097
29-Mar-2027	0.798033	17.104900	26.815800	4.187960	59.956955	2.341470	0.029996	0.297492	0.061759	0.004750	0.002669	0.170904	0.000821	0.016570	0.009401	0.002633	0.026329
30-Mar-2027	0.798032	17.257300	27.054800	4.225280	60.491181	2.362330	0.030264	0.300143	0.062310	0.004793	0.002693	0.172427	0.000828	0.016718	0.009484	0.002656	0.026564
31-Mar-2027	0.798033	17.412300	27.297800	4.263230	61.034494	2.383550	0.030535	0.302839	0.062869	0.004836	0.002717	0.173976	0.000835	0.016868	0.009570	0.002680	0.026802
1-Apr-2027	0.798033	17.571100	27.546700	4.302090	61.591043	2.405280	0.030814	0.305599	0.063443	0.004880	0.002742	0.175562	0.000843	0.017022	0.009657	0.002705	0.027047
2-Apr-2027	0.798032	17.708300	27.761800	4.335700	62.072038	2.424070	0.031055	0.307986	0.063938	0.004918	0.002763	0.176933	0.000850	0.017154	0.009732	0.002726	0.027258
3-Apr-2027	0.798032	17.712100	27.767800	4.336630	62.085356	2.424590	0.031061	0.308052	0.063952	0.004919	0.002764	0.176971	0.000850	0.017158	0.009734	0.002726	0.027264
4-Apr-2027	0.798032	17.700000	27.748900	4.333680	62.042994	2.422940	0.031040	0.307843	0.063908	0.004916	0.002762	0.176851	0.000849	0.017146	0.009728	0.002725	0.027245

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Apr-2027	0.798032	17.682900	27.722000	4.329480	61.983000	2.420590	0.031010	0.307545	0.063846	0.004911	0.002759	0.176680	0.000848	0.017130	0.009718	0.002722	0.027219
6-Apr-2027	0.798032	17.663700	27.691900	4.324780	61.915703	2.417960	0.030976	0.307211	0.063777	0.004906	0.002756	0.176488	0.000847	0.017111	0.009708	0.002719	0.027189
7-Apr-2027	0.798032	17.652100	27.673700	4.321940	61.875043	2.416380	0.030956	0.307009	0.063735	0.004902	0.002755	0.176372	0.000847	0.017100	0.009701	0.002717	0.027172
8-Apr-2027	0.798032	17.635300	27.647300	4.317820	61.816127	2.414070	0.030926	0.306716	0.063675	0.004898	0.002752	0.176204	0.000846	0.017084	0.009692	0.002715	0.027146
9-Apr-2027	0.798032	17.606100	27.601600	4.310680	61.713812	2.410080	0.030875	0.306209	0.063569	0.004890	0.002747	0.175912	0.000845	0.017055	0.009676	0.002710	0.027101
10-Apr-2027	0.798032	17.580300	27.561100	4.304350	61.623322	2.406540	0.030830	0.305759	0.063476	0.004883	0.002743	0.175654	0.000843	0.017030	0.009662	0.002706	0.027061
11-Apr-2027	0.798032	17.559800	27.529000	4.299340	61.551503	2.403740	0.030794	0.305404	0.063402	0.004877	0.002740	0.175450	0.000842	0.017011	0.009651	0.002703	0.027029
12-Apr-2027	0.798032	17.536700	27.492700	4.293680	61.470514	2.400570	0.030754	0.305001	0.063318	0.004870	0.002737	0.175218	0.000841	0.016988	0.009638	0.002699	0.026994
13-Apr-2027	0.798032	17.515100	27.458900	4.288400	61.394836	2.397620	0.030716	0.304626	0.063241	0.004864	0.002733	0.175003	0.000840	0.016967	0.009626	0.002696	0.026961
14-Apr-2027	0.798033	17.493900	27.425800	4.283220	61.320568	2.394730	0.030679	0.304258	0.063164	0.004859	0.002730	0.174791	0.000839	0.016947	0.009615	0.002693	0.026928
15-Apr-2027	0.798033	17.471200	27.390100	4.277650	61.240949	2.391610	0.030639	0.303863	0.063082	0.004852	0.002726	0.174564	0.000838	0.016925	0.009602	0.002689	0.026893
16-Apr-2027	0.798033	17.450600	27.357800	4.272600	61.168715	2.388790	0.030603	0.303504	0.063008	0.004846	0.002723	0.174358	0.000837	0.016905	0.009591	0.002686	0.026861
17-Apr-2027	0.798033	17.431400	27.327600	4.267890	61.101377	2.386160	0.030569	0.303170	0.062938	0.004841	0.002720	0.174166	0.000836	0.016886	0.009580	0.002683	0.026832
18-Apr-2027	0.798033	17.414800	27.301700	4.263840	61.043249	2.383890	0.030540	0.302882	0.062878	0.004837	0.002718	0.174001	0.000835	0.016870	0.009571	0.002681	0.026806
19-Apr-2027	0.798033	17.401400	27.280700	4.260560	60.996282	2.382060	0.030516	0.302649	0.062830	0.004833	0.002716	0.173867	0.000835	0.016857	0.009564	0.002679	0.026786
20-Apr-2027	0.798033	17.388800	27.260900	4.257480	60.952136	2.380340	0.030494	0.302430	0.062785	0.004829	0.002714	0.173741	0.000834	0.016845	0.009557	0.002677	0.026766
21-Apr-2027	0.798033	17.376200	27.241100	4.254380	60.907908	2.378610	0.030472	0.302210	0.062739	0.004826	0.002712	0.173615	0.000834	0.016833	0.009550	0.002675	0.026747
22-Apr-2027	0.798033	17.363000	27.220400	4.251150	60.861647	2.376800	0.030449	0.301980	0.062691	0.004822	0.002710	0.173483	0.000833	0.016820	0.009543	0.002673	0.026726
23-Apr-2027	0.798033	17.349100	27.198700	4.247750	60.812937	2.374900	0.030425	0.301739	0.062641	0.004818	0.002707	0.173344	0.000832	0.016807	0.009535	0.002671	0.026705
24-Apr-2027	0.798033	17.334600	27.175900	4.244200	60.762112	2.372910	0.030399	0.301487	0.062589	0.004814	0.002705	0.173199	0.000832	0.016792	0.009527	0.002668	0.026683
25-Apr-2027	0.798033	17.319600	27.152400	4.240520	60.709503	2.370850	0.030373	0.301225	0.062534	0.004810	0.002703	0.173049	0.000831	0.016778	0.009519	0.002666	0.026660
26-Apr-2027	0.798033	17.304200	27.128200	4.236750	60.655524	2.368750	0.030346	0.300958	0.062479	0.004806	0.002700	0.172895	0.000830	0.016763	0.009510	0.002664	0.026636
27-Apr-2027	0.798033	17.288600	27.103900	4.232940	60.600881	2.366620	0.030319	0.300687	0.062423	0.004802	0.002698	0.172740	0.000829	0.016748	0.009502	0.002661	0.026612
28-Apr-2027	0.798033	17.273100	27.079500	4.229140	60.546529	2.364490	0.030291	0.300417	0.062367	0.004797	0.002695	0.172584	0.000829	0.016733	0.009493	0.002659	0.026588
29-Apr-2027	0.798033	17.257700	27.055400	4.225370	60.492551	2.362380	0.030264	0.300149	0.062311	0.004793	0.002693	0.172431	0.000828	0.016718	0.009485	0.002656	0.026564
30-Apr-2027	0.798022	17.240900	27.029100	4.221260	60.433676	2.360090	0.030235	0.299858	0.062251	0.004788	0.002690	0.172263	0.000827	0.016702	0.009475	0.002654	0.026539
1-May-2027	0.797904	17.209300	26.979600	4.213530	60.322939	2.355770	0.030180	0.299308	0.062137	0.004779	0.002686	0.171948	0.000826	0.016671	0.009458	0.002649	0.026490
2-May-2027	0.797237	17.099700	26.807700	4.186690	59.938740	2.340760	0.029987	0.297401	0.061741	0.004749	0.002668	0.170852	0.000820	0.016565	0.009398	0.002632	0.026321
3-May-2027	0.794413	16.711900	26.199700	4.091730	58.579358	2.287670	0.029307	0.290656	0.060340	0.004641	0.002608	0.166977	0.000802	0.016189	0.009185	0.002572	0.025724
4-May-2027	0.791358	16.340900	25.618000	4.000890	57.278892	2.236880	0.028656	0.284203	0.059001	0.004538	0.002550	0.163270	0.000784	0.015830	0.008981	0.002515	0.025153
5-May-2027	0.787936	16.211300	25.414900	3.969170	56.824658	2.219150	0.028429	0.281950	0.058533	0.004502	0.002530	0.161976	0.000778	0.015704	0.008910	0.002495	0.024954
6-May-2027	0.785043	16.118400	25.269300	3.946430	56.499044	2.206430	0.028266	0.280334	0.058198	0.004477	0.002515	0.161047	0.000773	0.015614	0.008859	0.002481	0.024811
7-May-2027	0.781236	16.057300	25.173500	3.931460	56.284830	2.198060	0.028159	0.279271	0.057977	0.004460	0.002506	0.160437	0.000770	0.015555	0.008825	0.002472	0.024717
8-May-2027	0.778911	16.011700	25.102100	3.920310	56.125051	2.191830	0.028079	0.278479	0.057812	0.004447	0.002499	0.159982	0.000768	0.015511	0.008800	0.002465	0.024647
9-May-2027	0.778480	15.970500	25.037400	3.910220	55.980624	2.186190	0.028007	0.277762	0.057664	0.004435	0.002492	0.159570	0.000766	0.015471	0.008777	0.002458	0.024583
10-May-2027	0.778755	15.927000	24.969200	3.899560	55.828107	2.180220	0.027931	0.277005	0.057506	0.004423	0.002485	0.159135	0.000764	0.015429	0.008753	0.002452	0.024516
11-May-2027	0.777016	15.877700	24.892000	3.887500	55.655342	2.173480	0.027844	0.276149	0.057329	0.004410	0.002478	0.158643	0.000762	0.015381	0.008726	0.002444	0.024440
12-May-2027	0.778420	15.792700	24.758700	3.866690	55.357401	2.161850	0.027695	0.274670	0.057022	0.004386	0.002464	0.157794	0.000758	0.015299	0.008680	0.002431	0.024309
13-May-2027	0.781605	15.713000	24.633600	3.847160	55.077966	2.150920	0.027555	0.273282	0.056734	0.004364	0.002452	0.156997	0.000754	0.015222	0.008636	0.002419	0.024187
14-May-2027	0.790292	15.623000	24.492600	3.825140	54.762558	2.138610	0.027398	0.271718	0.056409	0.004339	0.002438	0.156098	0.000749	0.015134	0.008586	0.002405	0.024048
15-May-2027	0.805057	15.528600	24.344500	3.802010	54.431591	2.125680	0.027232	0.270075	0.056068	0.004313	0.002423	0.155154	0.000745	0.015043	0.008534	0.002390	0.023903
16-May-2027	0.815156	15.428400	24.187500	3.777500	54.080460	2.111970	0.027056	0.268334	0.055707	0.004285	0.002408	0.154154	0.000740	0.014946	0.008479	0.002375	0.023749
17-May-2027	0.824953	15.306400	23.996200	3.747620	53.652780	2.095270	0.026842	0.266211	0.055266	0.004251	0.002389	0.152935	0.000734	0.014828	0.008412	0.002356	0.023561
18-May-2027	0.843197	15.181500	23.800400	3.717030	53.214935	2.078160	0.026623	0.264038	0.054815	0.004216	0.002369	0.151687	0.000728	0.014707	0.008344	0.002337	0.023368
19-May-2027	0.839282	15.054500	23.601200	3.685940	52.769787	2.060780	0.026400	0.261829	0.054357	0.004181	0.002349	0.150418	0.000722	0.014584	0.008274	0.002317	0.023173
20-May-2027	0.835446	14.870000	23.312000	3.640780	52.123122	2.035520	0.026077	0.258620	0.053691	0.004130	0.002321	0.148575	0.000713	0.014405	0.008172	0.002289	0.022889
21-May-2027	0.834491	14.494900	22.724000	3.548970	50.808424	1.984160	0.025419	0.252095	0.052338	0.004026	0.002262	0.144829	0.000695	0.014042	0.007966	0.002231	0.022312
22-May-2027	0.845289	14.153700	22.188900	3.465480	49.612636	1.937410	0.024820	0.246157	0.051108	0.003931	0.002209	0.141424	0.000679	0.013711	0.007779	0.002179	0.021786
23-May-2027	0.858796	13.926900	21.833400	3.409950	48.817643	1.906380	0.024423	0.242213	0.050289	0.003868	0.002173	0.139157	0.000668	0.013492	0.007654	0.002144	0.021437
24-May-2027	0.870249	13.578800	21.287400	3.324760	47.597625	1.858690	0.023812	0.236155	0.049034	0.003771	0.002119	0.135682	0.000651	0.013155	0.007463	0.002090	0.020901
25-May-2027	0.876066	13.230900	20.742000	3.239620	46.378312	1.811050	0.023202	0.230102	0.047779	0.003674	0.002065	0.132208	0.000635	0.012818	0.007272	0.002037	0.020366
26-May-2027	0.884223	12.913500	20.244200	3.161930	45.265837	1.767570	0.022645	0.224578	0.046635	0.003586	0.002016	0.129039	0.000619	0.012510	0.007097	0.001988	0.019877

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
27-May-2027	0.895009	12.667700	19.858700	3.101770	44.404336	1.733900	0.022213	0.220301	0.045748	0.003518	0.001977	0.126585	0.000608	0.012272	0.006962	0.001950	0.019498
28-May-2027	0.907849	12.425300	19.478700	3.042460	43.554824	1.700700	0.021788	0.216084	0.044874	0.003451	0.001939	0.124166	0.000596	0.012038	0.006829	0.001913	0.019125
29-May-2027	0.923268	12.329800	19.328900	3.019110	43.220206	1.687620	0.021621	0.214421	0.044531	0.003424	0.001925	0.123214	0.000591	0.011945	0.006776	0.001898	0.018978
30-May-2027	0.934935	12.184400	19.100600	2.983570	42.710788	1.667660	0.021365	0.211889	0.044007	0.003384	0.001902	0.121768	0.000584	0.011805	0.006696	0.001875	0.018754
31-May-2027	0.944618	12.109700	18.983500	2.965270	42.448903	1.657420	0.021234	0.210588	0.043738	0.003363	0.001890	0.121021	0.000581	0.011732	0.006655	0.001864	0.018639
1-Jun-2027	0.960731	12.020500	18.843400	2.943510	42.136563	1.645170	0.021077	0.209032	0.043418	0.003338	0.001877	0.120135	0.000577	0.011646	0.006606	0.001850	0.018502
2-Jun-2027	1.016129	11.877000	18.617300	2.908720	41.634978	1.625300	0.020824	0.206520	0.042924	0.003298	0.001855	0.118731	0.000570	0.011509	0.006527	0.001828	0.018281
3-Jun-2027	1.076247	11.705100	18.344000	2.867770	41.037112	1.601000	0.020518	0.203486	0.042353	0.003249	0.001830	0.117101	0.000561	0.011347	0.006432	0.001802	0.018018
4-Jun-2027	1.301891	11.523200	18.051400	2.825390	40.408386	1.574730	0.020191	0.200238	0.041870	0.003197	0.001808	0.115491	0.000552	0.011180	0.006331	0.001774	0.017741
5-Jun-2027	1.412027	11.325900	17.717200	2.784260	39.746355	1.543420	0.019819	0.196562	0.041475	0.003135	0.001788	0.114016	0.000541	0.011021	0.006219	0.001745	0.017450
6-Jun-2027	1.420883	11.156900	17.435800	2.747680	39.173726	1.517070	0.019503	0.193434	0.041107	0.003084	0.001771	0.112684	0.000532	0.010878	0.006124	0.001720	0.017197
7-Jun-2027	1.493464	10.883200	16.977200	2.689250	38.249682	1.473660	0.018984	0.188274	0.040631	0.002998	0.001745	0.110566	0.000518	0.010650	0.005969	0.001679	0.016788
8-Jun-2027	1.475565	10.649800	16.582000	2.640630	37.466665	1.435880	0.018538	0.183848	0.040273	0.002925	0.001726	0.108855	0.000505	0.010461	0.005836	0.001644	0.016440
9-Jun-2027	1.537898	10.443000	16.227100	2.598990	36.778812	1.401880	0.018139	0.179894	0.039914	0.002859	0.001710	0.107461	0.000494	0.010301	0.005718	0.001613	0.016134
10-Jun-2027	1.726202	10.298300	15.982100	2.568750	36.292968	1.378090	0.017858	0.177076	0.039722	0.002813	0.001698	0.106387	0.000486	0.010183	0.005636	0.001592	0.015916
11-Jun-2027	2.009846	10.159300	15.746000	2.539960	35.827327	1.355490	0.017594	0.174466	0.039600	0.002769	0.001691	0.105464	0.000478	0.010071	0.005557	0.001571	0.015710
12-Jun-2027	2.221144	9.989210	15.455700	2.505110	35.259100	1.327400	0.017262	0.171135	0.039475	0.002715	0.001679	0.104262	0.000469	0.009937	0.005460	0.001545	0.015454
13-Jun-2027	2.446483	9.791240	15.114400	2.466850	34.607215	1.294360	0.016880	0.167375	0.039142	0.002651	0.001667	0.103176	0.000458	0.009790	0.005346	0.001517	0.015168
14-Jun-2027	2.722687	9.668380	14.904300	2.440540	34.192089	1.273820	0.016643	0.164983	0.038967	0.002612	0.001656	0.102038	0.000451	0.009687	0.005276	0.001498	0.014980
15-Jun-2027	2.992822	9.529060	14.669700	2.412840	33.730138	1.251430	0.016371	0.162177	0.038852	0.002570	0.001649	0.101252	0.000443	0.009582	0.005197	0.001477	0.014767
16-Jun-2027	3.299353	9.344520	14.352800	2.376590	33.120064	1.220860	0.016012	0.158622	0.038654	0.002511	0.001634	0.099999	0.000433	0.009443	0.005092	0.001450	0.014500
17-Jun-2027	3.595363	9.180770	14.067000	2.341380	32.566186	1.192540	0.015694	0.155401	0.038471	0.002458	0.001624	0.098964	0.000423	0.009310	0.004998	0.001425	0.014248
18-Jun-2027	3.810723	8.983810	13.719400	2.302790	31.915463	1.158610	0.015319	0.151328	0.038207	0.002398	0.001611	0.097794	0.000412	0.009165	0.004885	0.001395	0.013955
19-Jun-2027	3.981633	8.806780	13.416800	2.268140	31.330730	1.128880	0.014975	0.148071	0.037962	0.002342	0.001598	0.096849	0.000402	0.009036	0.004784	0.001369	0.013692
20-Jun-2027	4.092327	8.645090	13.127300	2.237960	30.802709	1.099820	0.014650	0.144903	0.037846	0.002289	0.001591	0.095811	0.000393	0.008916	0.004690	0.001346	0.013461
21-Jun-2027	4.275110	8.489780	12.863800	2.204650	30.277729	1.074870	0.014356	0.141850	0.037751	0.002241	0.001578	0.095046	0.000384	0.008791	0.004602	0.001322	0.013219
22-Jun-2027	4.322786	8.326380	12.578300	2.173180	29.740126	1.046820	0.014039	0.138683	0.037732	0.002189	0.001570	0.094080	0.000375	0.008671	0.004508	0.001298	0.012978
23-Jun-2027	4.437416	8.157870	12.284200	2.140720	29.185686	1.018260	0.013717	0.135396	0.037592	0.002138	0.001558	0.093286	0.000365	0.008555	0.004412	0.001273	0.012728
24-Jun-2027	4.514553	8.011160	12.023700	2.112130	28.701618	0.992673	0.013429	0.132545	0.037430	0.002091	0.001550	0.092322	0.000357	0.008445	0.004327	0.001251	0.012514
25-Jun-2027	4.713984	7.843380	11.729100	2.079280	28.147395	0.963228	0.013105	0.129279	0.037358	0.002037	0.001539	0.091363	0.000347	0.008319	0.004231	0.001226	0.012264
26-Jun-2027	4.904469	7.700400	11.475300	2.059320	27.708179	0.938812	0.012830	0.126496	0.037250	0.001995	0.001533	0.090852	0.000339	0.008248	0.004149	0.001208	0.012075
27-Jun-2027	5.213715	7.564570	11.236200	2.031650	27.255066	0.914727	0.012568	0.123858	0.037135	0.001953	0.001526	0.090076	0.000331	0.008144	0.004071	0.001186	0.011865
28-Jun-2027	5.460080	7.416820	10.981200	2.003110	26.768607	0.890744	0.012285	0.120993	0.036991	0.001911	0.001519	0.089314	0.000322	0.008039	0.003987	0.001165	0.011647
29-Jun-2027	5.664675	7.314660	10.797000	1.984440	26.436630	0.871809	0.012088	0.119014	0.036871	0.001875	0.001511	0.088797	0.000316	0.007969	0.003928	0.001151	0.011507
30-Jun-2027	5.912687	7.200030	10.598100	1.955990	26.033242	0.852876	0.011873	0.116797	0.036704	0.001844	0.001502	0.088010	0.000310	0.007863	0.003863	0.001130	0.011297
1-Jul-2027	6.071215	7.042450	10.312700	1.932360	25.542456	0.824459	0.011565	0.113740	0.036394	0.001793	0.001496	0.087421	0.000300	0.007776	0.003771	0.001111	0.011109
2-Jul-2027	6.792627	6.673020	9.695270	1.836110	24.223632	0.768265	0.010886	0.106639	0.034698	0.001706	0.001432	0.084951	0.000281	0.007458	0.003572	0.001049	0.010495
3-Jul-2027	8.113091	6.131520	8.765820	1.724350	22.411279	0.680266	0.009880	0.096609	0.033447	0.001559	0.001384	0.081967	0.000251	0.007027	0.003265	0.000967	0.009666
4-Jul-2027	9.122852	6.227930	8.952380	1.732500	22.685576	0.700355	0.010059	0.098412	0.033512	0.001595	0.001378	0.082126	0.000258	0.007098	0.003328	0.000981	0.009809
5-Jul-2027	11.037634	6.304060	9.090790	1.739880	22.906064	0.715409	0.010214	0.099943	0.033595	0.001627	0.001376	0.085552	0.000262	0.007167	0.003379	0.000992	0.009919
6-Jul-2027	12.799236	6.279430	9.039190	1.738810	22.840156	0.710543	0.010181	0.099620	0.033495	0.001631	0.001376	0.083615	0.000261	0.007149	0.003363	0.000988	0.009875
7-Jul-2027	13.538457	6.323310	9.117140	1.745150	22.975833	0.718699	0.010268	0.100479	0.033512	0.001650	0.001377	0.084407	0.000263	0.007182	0.003390	0.000994	0.009937
8-Jul-2027	14.575623	6.620510	9.649950	1.792510	23.912970	0.772644	0.010827	0.106050	0.033903	0.001755	0.001384	0.084844	0.000281	0.007411	0.003570	0.001038	0.010379
9-Jul-2027	13.999887	6.499830	9.442570	1.772020	23.527254	0.751470	0.010589	0.103693	0.033668	0.001704	0.001379	0.083719	0.000274	0.007307	0.003497	0.001020	0.010202
10-Jul-2027	15.983140	6.442300	9.342410	1.764250	23.351605	0.741191	0.010476	0.102570	0.033463	0.001684	0.001377	0.083355	0.000271	0.007249	0.003460	0.001011	0.010113
11-Jul-2027	15.947785	6.607790	9.647350	1.791200	23.875813	0.771523	0.010772	0.105545	0.033602	0.001733	0.001381	0.083737	0.000281	0.007361	0.003558	0.001036	0.010363
12-Jul-2027	15.980538	6.691940	9.805760	1.807130	24.151536	0.786961	0.010916	0.107009	0.033555	0.001756	0.001382	0.083842	0.000287	0.007402	0.003605	0.001049	0.010490
13-Jul-2027	15.958483	6.696520	9.808920	1.806930	24.162148	0.787570	0.010931	0.107139	0.033603	0.001762	0.001383	0.084102	0.000287	0.007417	0.003609	0.001049	0.010494
14-Jul-2027	16.548579	6.638530	9.698520	1.798530	23.982756	0.776678	0.010832	0.106143	0.033531	0.001750	0.001382	0.084490	0.000283	0.007379	0.003575	0.001040	0.010403
15-Jul-2027	16.768768	6.716040	9.837670	1.810470	24.225467	0.790738	0.010976	0.107585	0.033655	0.001776	0.001384	0.084611	0.000288	0.007441	0.003622	0.001052	0.010518
16-Jul-2027	17.009677	6.900380	10.183600	1.842880	24.819229	0.824692	0.011295	0.110820	0.033700	0.001826	0.001388	0.084750	0.000299	0.007544	0.003728	0.001080	0.010798
17-Jul-2027	16.478323	6.733700	9.877100	1.817540	24.298679	0.793971	0.010991	0.107756	0.033410	0.001777	0.001385	0.084384	0.000289	0.007422	0.003627	0.001054	0.010543

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Jul-2027	16.855096	7.015450	10.384500	1.860020	25.177141	0.845206	0.011514	0.112948	0.033869	0.001870	0.001391	0.085551	0.000306	0.007645	0.003799	0.001096	0.010965
19-Jul-2027	16.324791	6.872900	10.125400	1.839090	24.735004	0.819125	0.011252	0.110337	0.033612	0.001827	0.001388	0.085130	0.000297	0.007533	0.003712	0.001075	0.010748
20-Jul-2027	15.966804	6.865370	10.109700	1.838770	24.714884	0.817589	0.011241	0.110217	0.033567	0.001828	0.001388	0.085259	0.000297	0.007526	0.003707	0.001073	0.010734
21-Jul-2027	16.301755	7.048700	10.444900	1.867240	25.289898	0.851153	0.011573	0.113550	0.033802	0.001883	0.001392	0.085773	0.000308	0.007660	0.003817	0.001101	0.011011
22-Jul-2027	17.104187	7.072780	10.491900	1.873370	25.375269	0.855517	0.011610	0.113925	0.033702	0.001889	0.001393	0.086091	0.000310	0.007662	0.003829	0.001105	0.011046
23-Jul-2027	16.151638	6.937800	10.241900	1.852990	24.954299	0.830527	0.011366	0.111460	0.033500	0.001852	0.001390	0.085577	0.000301	0.007565	0.003747	0.001084	0.010838
24-Jul-2027	16.403981	7.001810	10.365500	1.866330	25.169067	0.842369	0.011471	0.112548	0.033450	0.001868	0.001392	0.085799	0.000305	0.007587	0.003781	0.001094	0.010935
25-Jul-2027	15.791009	7.109130	10.555300	1.881040	25.497620	0.861796	0.011675	0.114554	0.033650	0.001906	0.001394	0.086122	0.000312	0.007683	0.003849	0.001109	0.011094
26-Jul-2027	15.870479	7.049640	10.446700	1.873170	25.316665	0.850728	0.011562	0.113408	0.033487	0.001888	0.001393	0.085989	0.000308	0.007633	0.003812	0.001100	0.011001
27-Jul-2027	15.069191	7.116110	10.569300	1.884160	25.527898	0.862927	0.011681	0.114613	0.033528	0.001908	0.001395	0.086149	0.000312	0.007676	0.003851	0.001110	0.011102
28-Jul-2027	14.706247	7.131300	10.598100	1.887260	25.578593	0.865668	0.011705	0.114846	0.033497	0.001912	0.001395	0.086166	0.000313	0.007682	0.003859	0.001112	0.011123
29-Jul-2027	14.690521	7.181220	10.690400	1.895740	25.738164	0.874772	0.011791	0.115712	0.033514	0.001927	0.001396	0.086248	0.000316	0.007713	0.003888	0.001120	0.011198
30-Jul-2027	14.242581	7.317040	10.939900	1.917550	26.167120	0.899666	0.012036	0.118171	0.033667	0.001967	0.001399	0.086593	0.000325	0.007808	0.003969	0.001140	0.011403
31-Jul-2027	14.189247	7.612560	11.480000	1.962790	27.091332	0.953788	0.012573	0.123547	0.034057	0.002057	0.001405	0.087408	0.000343	0.008027	0.004148	0.001185	0.011851
1-Aug-2027	14.553253	7.808360	11.840100	1.994340	27.710167	0.989665	0.012925	0.127080	0.034248	0.002115	0.001409	0.087892	0.000355	0.008162	0.004265	0.001215	0.012147
2-Aug-2027	14.853915	7.677120	11.602600	1.975500	27.304878	0.965597	0.012678	0.124596	0.034062	0.002077	0.001406	0.087668	0.000347	0.008064	0.004184	0.001195	0.011947
3-Aug-2027	15.104251	7.848780	11.911300	2.001860	27.842063	0.996661	0.012991	0.127692	0.034251	0.002132	0.001410	0.088226	0.000357	0.008189	0.004288	0.001220	0.012203
4-Aug-2027	15.197436	7.736420	11.717000	1.989050	27.508749	0.975816	0.012741	0.125191	0.033812	0.002091	0.001407	0.087478	0.000351	0.008068	0.004214	0.001203	0.012035
5-Aug-2027	15.878323	7.702130	11.651500	1.982940	27.397966	0.969477	0.012684	0.124601	0.033781	0.002082	0.001407	0.087488	0.000348	0.008049	0.004194	0.001198	0.011979
6-Aug-2027	15.682213	7.646160	11.547900	1.975180	27.226253	0.959029	0.012580	0.123549	0.033666	0.002068	0.001406	0.087446	0.000345	0.008006	0.004160	0.001189	0.011891
7-Aug-2027	16.270823	7.532100	11.341900	1.959310	26.876092	0.937935	0.012357	0.121305	0.033401	0.002031	0.001403	0.087033	0.000338	0.007909	0.004089	0.001172	0.011716
8-Aug-2027	16.205721	7.548440	11.370600	1.965210	26.941189	0.940259	0.012367	0.121371	0.033283	0.002042	0.001404	0.087316	0.000339	0.007906	0.004095	0.001173	0.011733
9-Aug-2027	16.721030	7.739220	11.720800	1.994940	27.539995	0.975136	0.012705	0.124754	0.033508	0.002098	0.001408	0.087771	0.000351	0.008043	0.004210	0.001202	0.012023
10-Aug-2027	16.136170	7.761640	11.763500	1.999120	27.613191	0.979177	0.012738	0.125076	0.033457	0.002104	0.001409	0.087754	0.000352	0.008053	0.004222	0.001206	0.012056
11-Aug-2027	15.881136	7.777170	11.793000	2.002260	27.664900	0.981913	0.012757	0.125268	0.033419	0.002108	0.001409	0.087764	0.000353	0.008059	0.004231	0.001208	0.012079
12-Aug-2027	15.472164	7.823780	11.879000	2.010490	27.815176	0.990274	0.012833	0.126018	0.033425	0.002122	0.001410	0.087899	0.000356	0.008087	0.004258	0.001215	0.012148
13-Aug-2027	15.363832	8.042490	12.279500	2.045000	28.503408	1.030150	0.013220	0.129883	0.033675	0.002189	0.001415	0.088497	0.000369	0.008244	0.004389	0.001248	0.012478
14-Aug-2027	14.597457	7.799980	11.836900	2.009410	27.751300	0.985438	0.012767	0.125327	0.033233	0.002116	0.001410	0.087841	0.000355	0.008054	0.004240	0.001211	0.012106
15-Aug-2027	13.514506	7.857150	11.942100	2.018830	27.932845	0.995815	0.012865	0.126301	0.033274	0.002133	0.001411	0.087986	0.000358	0.008092	0.004274	0.001219	0.012192
16-Aug-2027	13.365604	8.009020	12.222200	2.043460	28.413491	1.023490	0.013127	0.128917	0.033427	0.002178	0.001414	0.088356	0.000368	0.008195	0.004364	0.001242	0.012422
17-Aug-2027	13.175711	8.120950	12.427700	2.061840	28.768669	1.043760	0.013319	0.130822	0.033500	0.002212	0.001416	0.088631	0.000374	0.008270	0.004430	0.001259	0.012590
18-Aug-2027	13.492087	8.191150	12.561600	2.076010	29.002311	1.056280	0.013415	0.131777	0.033407	0.002230	0.001418	0.088651	0.000379	0.008298	0.004469	0.001270	0.012696
19-Aug-2027	13.974379	8.248460	12.641800	2.073460	29.134913	1.066260	0.013561	0.133104	0.034082	0.002263	0.001419	0.089719	0.000382	0.008427	0.004519	0.001278	0.012775
20-Aug-2027	13.384636	8.000170	12.197900	2.041680	28.384063	1.020680	0.013084	0.128361	0.033391	0.002183	0.001414	0.088716	0.000367	0.008201	0.004361	0.001240	0.012396
21-Aug-2027	13.366836	8.006250	12.215400	2.046040	28.417199	1.021750	0.013075	0.128295	0.033176	0.002181	0.001414	0.088498	0.000367	0.008177	0.004359	0.001240	0.012405
22-Aug-2027	13.305196	8.040250	12.279500	2.052320	28.527958	1.027860	0.013126	0.128799	0.033156	0.002190	0.001415	0.088518	0.000369	0.008194	0.004378	0.001246	0.012455
23-Aug-2027	13.383911	8.211350	12.593200	2.079010	29.065104	1.059150	0.013432	0.131859	0.033367	0.002241	0.001419	0.088957	0.000380	0.008317	0.004481	0.001272	0.012715
24-Aug-2027	13.380349	8.181740	12.547300	2.078880	28.990633	1.053380	0.013339	0.130924	0.033141	0.002228	0.001418	0.088632	0.000378	0.008263	0.004457	0.001267	0.012672
25-Aug-2027	13.583626	8.343500	12.837200	2.100770	29.484690	1.083150	0.013656	0.134087	0.033439	0.002280	0.001421	0.089229	0.000388	0.008404	0.004559	0.001291	0.012914
26-Aug-2027	13.317606	8.408060	12.954500	2.112330	29.693501	1.094540	0.013758	0.135083	0.033464	0.002302	0.001423	0.089524	0.000392	0.008444	0.004597	0.001301	0.013008
27-Aug-2027	13.238740	8.458180	13.050600	2.121440	29.856165	1.103740	0.013836	0.135873	0.033429	0.002314	0.001424	0.089465	0.000395	0.008468	0.004625	0.001309	0.013085
28-Aug-2027	13.234385	8.346310	12.846900	2.105500	29.511185	1.083020	0.013621	0.133713	0.033200	0.002280	0.001422	0.089159	0.000388	0.008378	0.004556	0.001291	0.012913
29-Aug-2027	12.913447	8.421600	12.988300	2.119090	29.755148	1.096650	0.013740	0.134896	0.033176	0.002301	0.001423	0.089229	0.000393	0.008418	0.004598	0.001303	0.013026
30-Aug-2027	12.217349	8.345710	12.849500	2.108220	29.520888	1.082520	0.013593	0.133409	0.033011	0.002279	0.001422	0.089054	0.000389	0.008357	0.004552	0.001291	0.012908
31-Aug-2027	11.951385	8.163110	12.514900	2.084250	28.966227	1.048310	0.013243	0.129866	0.032669	0.002231	0.001418	0.089255	0.000377	0.008217	0.004439	0.001262	0.012624
1-Sep-2027	11.551060	8.346830	12.850700	2.110770	29.534185	1.082140	0.013573	0.133180	0.032873	0.002283	0.001422	0.089252	0.000389	0.008347	0.004550	0.001290	0.012903
2-Sep-2027	11.091053	8.459520	13.063100	2.127690	29.885249	1.103580	0.013777	0.135236	0.032946	0.002316	0.001422	0.089319	0.000396	0.008420	0.004618	0.001307	0.013074
3-Sep-2027	10.975087	8.462200	13.072400	2.127370	29.890623	1.104700	0.013782	0.135284	0.032895	0.002316	0.001421	0.089187	0.000396	0.008415	0.004619	0.001308	0.013078
4-Sep-2027	11.055121	8.874740	13.818100	2.190370	31.180169	1.179420	0.014537	0.142822	0.033587	0.002443	0.001431	0.090613	0.000421	0.008738	0.004871	0.001370	0.013702
5-Sep-2027	11.242002	8.848690	13.789800	2.185550	31.095274	1.176950	0.014481	0.142281	0.033277	0.002433	0.001424	0.089951	0.000420	0.008684	0.004854	0.001366	0.013663
6-Sep-2027	11.188147	8.684690	13.485900	2.161010	30.584710	1.146410	0.014179	0.139244	0.033101	0.002387	0.001423	0.089856	0.000410	0.008570	0.004754	0.001341	0.013410
7-Sep-2027	10.988760	8.513600	13.167200	2.135480	30.052366	1.114270	0.013867	0.136112	0.032850	0.002337	0.001420	0.089477	0.000399	0.008448	0.004650	0.001315	0.013148

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Sep-2027	10.530251	8.529270	13.197900	2.137900	30.101459	1.117420	0.013892	0.136358	0.032815	0.002344	0.001419	0.089517	0.000401	0.008454	0.004660	0.001317	0.013170
9-Sep-2027	10.208153	8.669650	13.464400	2.158850	30.538260	1.144420	0.014139	0.138838	0.032859	0.002388	0.001419	0.089738	0.000410	0.008539	0.004744	0.001338	0.013380
10-Sep-2027	10.133519	8.821380	13.742500	2.182150	31.013080	1.172270	0.014416	0.141611	0.033044	0.002432	0.001421	0.090059	0.000419	0.008651	0.004836	0.001361	0.013610
11-Sep-2027	9.617098	8.817440	13.731900	2.181550	31.000771	1.171140	0.014410	0.141547	0.033080	0.002431	0.001422	0.090137	0.000418	0.008654	0.004834	0.001360	0.013604
12-Sep-2027	8.993419	8.947620	13.972000	2.201340	31.407325	1.195300	0.014645	0.143903	0.033217	0.002472	0.001424	0.090458	0.000427	0.008747	0.004913	0.001380	0.013800
13-Sep-2027	8.429806	8.727230	13.568700	2.167990	30.719676	1.154890	0.014238	0.139818	0.032843	0.002409	0.001419	0.089989	0.000413	0.008580	0.004779	0.001346	0.013461
14-Sep-2027	8.032074	8.799710	13.703300	2.178860	30.945421	1.168460	0.014368	0.141115	0.032904	0.002431	0.001419	0.090164	0.000418	0.008630	0.004823	0.001357	0.013570
15-Sep-2027	7.616784	8.869640	13.833800	2.189320	31.163111	1.181630	0.014494	0.142384	0.032959	0.002453	0.001419	0.090269	0.000422	0.008677	0.004865	0.001368	0.013676
16-Sep-2027	7.234787	8.992140	14.061000	2.207900	31.545506	1.204460	0.014714	0.144569	0.033066	0.002490	0.001421	0.090514	0.000430	0.008762	0.004939	0.001386	0.013859
17-Sep-2027	6.953679	9.094700	14.258700	2.223070	31.864068	1.224500	0.014897	0.146421	0.033076	0.002519	0.001420	0.090471	0.000436	0.008820	0.005001	0.001402	0.014016
18-Sep-2027	6.459471	8.984650	14.051100	2.206550	31.521244	1.203560	0.014699	0.144422	0.032996	0.002487	0.001419	0.090381	0.000429	0.008749	0.004934	0.001385	0.013848
19-Sep-2027	6.337235	8.969380	14.025800	2.204180	31.473355	1.201040	0.014669	0.144124	0.032928	0.002482	0.001418	0.090257	0.000429	0.008733	0.004925	0.001382	0.013824
20-Sep-2027	5.857226	9.059380	14.191800	2.217710	31.753802	1.217770	0.014832	0.145757	0.033030	0.002509	0.001419	0.090469	0.000434	0.008797	0.004980	0.001396	0.013960
21-Sep-2027	5.909045	9.217670	14.491000	2.241220	32.245866	1.248000	0.015116	0.148607	0.033119	0.002556	0.001419	0.090608	0.000444	0.008898	0.005075	0.001420	0.014200
22-Sep-2027	6.039156	9.130110	14.325100	2.228440	31.974601	1.231340	0.014955	0.146973	0.033007	0.002535	0.001418	0.090687	0.000439	0.008840	0.005022	0.001406	0.014062
23-Sep-2027	5.577892	9.161310	14.384900	2.232840	32.070626	1.237390	0.015011	0.147548	0.033022	0.002543	0.001418	0.090651	0.000441	0.008859	0.005041	0.001411	0.014110
24-Sep-2027	5.188757	9.306420	14.657100	2.254690	32.522944	1.264820	0.015273	0.150174	0.033132	0.002585	0.001419	0.090834	0.000450	0.008955	0.005129	0.001433	0.014330
25-Sep-2027	5.148463	9.432310	14.884100	2.273830	32.916110	1.287590	0.015502	0.152458	0.033339	0.002625	0.001422	0.091291	0.000457	0.009054	0.005205	0.001452	0.014519
26-Sep-2027	5.039382	9.181440	14.428700	2.235560	32.132092	1.241940	0.015043	0.147857	0.032926	0.002549	0.001416	0.090515	0.000442	0.008861	0.005053	0.001414	0.014138
27-Sep-2027	5.413121	9.452790	14.931000	2.276570	32.978532	1.292500	0.015534	0.152773	0.033206	0.002631	0.001419	0.091101	0.000459	0.009051	0.005217	0.001455	0.014548
28-Sep-2027	5.473437	9.325050	14.701500	2.257220	32.579882	1.269700	0.015297	0.150406	0.032922	0.002596	0.001414	0.090770	0.000452	0.008946	0.005139	0.001435	0.014351
29-Sep-2027	5.252268	9.555050	15.117400	2.292130	33.297951	1.311380	0.015717	0.154590	0.033288	0.002667	0.001420	0.091547	0.000465	0.009126	0.005279	0.001470	0.014697
30-Sep-2027	5.307026	9.596890	15.198800	2.298100	33.427010	1.319650	0.015791	0.155336	0.033283	0.002679	0.001419	0.091496	0.000468	0.009149	0.005305	0.001476	0.014760
1-Oct-2027	5.246011	9.830650	15.625000	2.333630	34.157021	1.362390	0.016218	0.159607	0.033635	0.002749	0.001424	0.092158	0.000482	0.009326	0.005447	0.001511	0.015115
2-Oct-2027	4.523315	9.439520	14.913100	2.273690	32.933537	1.291060	0.015505	0.152478	0.033043	0.002630	0.001415	0.090970	0.000459	0.009029	0.005209	0.001452	0.014522
3-Oct-2027	4.157866	9.337100	14.725700	2.258080	32.613512	1.272290	0.015320	0.150632	0.032905	0.002599	0.001413	0.090698	0.000452	0.008953	0.005147	0.001437	0.014368
4-Oct-2027	4.122897	9.244840	14.556400	2.243820	32.324416	1.255360	0.015152	0.148945	0.032772	0.002572	0.001411	0.090525	0.000447	0.008886	0.005091	0.001423	0.014227
5-Oct-2027	3.820251	9.208880	14.491200	2.238070	32.210946	1.248890	0.015087	0.148305	0.032721	0.002562	0.001410	0.090401	0.000445	0.008859	0.005070	0.001417	0.014172
6-Oct-2027	3.690802	9.181160	14.440300	2.233690	32.123692	1.243870	0.015038	0.147809	0.032688	0.002554	0.001409	0.090349	0.000443	0.008839	0.005053	0.001413	0.014130
7-Oct-2027	3.358119	9.178700	14.436500	2.233170	32.115408	1.243470	0.015034	0.147776	0.032689	0.002552	0.001409	0.090273	0.000443	0.008837	0.005052	0.001413	0.014127
8-Oct-2027	3.127281	9.168660	14.418300	2.231540	32.083626	1.241670	0.015016	0.147602	0.032674	0.002549	0.001409	0.090238	0.000442	0.008830	0.005046	0.001411	0.014112
9-Oct-2027	2.862383	9.150180	14.385300	2.228350	32.024345	1.238470	0.014984	0.147284	0.032644	0.002544	0.001408	0.090216	0.000441	0.008816	0.005035	0.001408	0.014084
10-Oct-2027	1.748120	9.117370	14.326200	2.222890	31.919934	1.232660	0.014927	0.146722	0.032606	0.002534	0.001407	0.090139	0.000439	0.008791	0.005015	0.001404	0.014035
11-Oct-2027	1.474578	9.110230	14.314500	2.221350	31.895764	1.231580	0.014915	0.146604	0.032588	0.002531	0.001406	0.090011	0.000439	0.008785	0.005011	0.001402	0.014025
12-Oct-2027	0.660806	9.089020	14.276400	2.217850	31.828389	1.227840	0.014878	0.146240	0.032560	0.002525	0.001406	0.089916	0.000437	0.008769	0.004998	0.001399	0.013993
13-Oct-2027	0.287163	9.057140	14.218600	2.212740	31.727742	1.222130	0.014823	0.145690	0.032522	0.002515	0.001405	0.089864	0.000436	0.008746	0.004979	0.001395	0.013945
14-Oct-2027	0.213575	9.059870	14.223600	2.213160	31.736288	1.222630	0.014827	0.145736	0.032522	0.002516	0.001405	0.089814	0.000436	0.008747	0.004981	0.001395	0.013949
15-Oct-2027	0.016150	9.029640	14.169200	2.208180	31.640296	1.217300	0.014774	0.145213	0.032478	0.002507	0.001404	0.089717	0.000434	0.008724	0.004963	0.001390	0.013904
16-Oct-2027	0.010413	9.015420	14.143700	2.205770	31.594865	1.214810	0.014750	0.144969	0.032457	0.002503	0.001403	0.089665	0.000433	0.008714	0.004954	0.001388	0.013882
17-Oct-2027	0.014815	9.031110	14.167900	2.209740	31.650391	1.216850	0.014775	0.145219	0.032516	0.002507	0.001406	0.089834	0.000434	0.008729	0.004963	0.001391	0.013907
18-Oct-2027	0.013339	9.121220	14.309200	2.231830	31.966362	1.228980	0.014922	0.146667	0.032841	0.002532	0.001420	0.090732	0.000438	0.008816	0.005012	0.001405	0.014045
19-Oct-2027	0.012518	9.183530	14.406700	2.247160	32.185079	1.237330	0.015024	0.147667	0.033067	0.002549	0.001430	0.091358	0.000441	0.008877	0.005047	0.001414	0.014141
20-Oct-2027	0.013219	9.223640	14.469300	2.257120	32.326249	1.242670	0.015090	0.148311	0.033216	0.002560	0.001436	0.091765	0.000443	0.008916	0.005069	0.001420	0.014203
21-Oct-2027	0.013967	9.208500	14.444900	2.253640	32.274114	1.240510	0.015064	0.148064	0.033167	0.002556	0.001434	0.091633	0.000442	0.008902	0.005060	0.001418	0.014180
22-Oct-2027	0.014037	9.236540	14.488700	2.260590	32.372750	1.244250	0.015110	0.148513	0.033270	0.002564	0.001438	0.091916	0.000444	0.008929	0.005075	0.001422	0.014223
23-Oct-2027	0.014760	9.275300	14.549400	2.270100	32.508696	1.249450	0.015174	0.149137	0.033411	0.002575	0.001445	0.092304	0.000445	0.008967	0.005097	0.001428	0.014283
24-Oct-2027	0.015371	9.332770	14.639400	2.284230	32.710386	1.257160	0.015267	0.150060	0.033619	0.002591	0.001454	0.092882	0.000448	0.009022	0.005128	0.001437	0.014371
25-Oct-2027	0.015764	9.380600	14.714300	2.295990	32.878245	1.263580	0.015346	0.150828	0.033792	0.002604	0.001461	0.093362	0.000450	0.009069	0.005155	0.001445	0.014445
26-Oct-2027	0.016139	9.406800	14.755400	2.302410	32.970104	1.267110	0.015388	0.151249	0.033887	0.002611	0.001465	0.093623	0.000452	0.009094	0.005169	0.001449	0.014485
27-Oct-2027	0.016162	9.443660	14.813200	2.311440	33.099329	1.272060	0.015449	0.151842	0.034020	0.002621	0.001471	0.093990	0.000453	0.009130	0.005189	0.001454	0.014542
28-Oct-2027	0.016605	9.477800	14.866600	2.319840	33.219168	1.276640	0.015505	0.152390	0.034144	0.002631	0.001476	0.094332	0.000455	0.009163	0.005208	0.001459	0.014595
29-Oct-2027	0.017460	9.512340	14.920600	2.328350	33.340458	1.281260	0.015561	0.152945	0.034270	0.002640	0.001482	0.094680	0.000457	0.009196	0.005227	0.001465	0.014648

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30-Oct-2027	0.018123	9.529400	14.947100	2.332640	33.400723	1.283510	0.015589	0.153217	0.034335	0.002645	0.001485	0.094857	0.000458	0.009213	0.005236	0.001467	0.014674
31-Oct-2027	0.018690	9.568490	15.008100	2.342300	33.538111	1.288720	0.015653	0.153844	0.034478	0.002656	0.001491	0.095254	0.000459	0.009251	0.005258	0.001473	0.014735
1-Nov-2027	0.019481	9.580330	15.026300	2.345350	33.580235	1.290240	0.015672	0.154032	0.034524	0.002659	0.001493	0.095384	0.000460	0.009263	0.005264	0.001475	0.014753
2-Nov-2027	0.019813	9.618070	15.085200	2.354670	33.712852	1.295280	0.015733	0.154638	0.034662	0.002670	0.001499	0.095767	0.000462	0.009300	0.005285	0.001481	0.014811
3-Nov-2027	0.019449	9.670840	15.167800	2.367650	33.898070	1.302360	0.015820	0.155485	0.034853	0.002684	0.001507	0.096298	0.000464	0.009351	0.005314	0.001489	0.014892
4-Nov-2027	0.019625	9.629510	15.102800	2.357620	33.753566	1.296750	0.015752	0.154819	0.034706	0.002673	0.001501	0.095894	0.000462	0.009311	0.005291	0.001483	0.014829
5-Nov-2027	0.019951	9.691060	15.199200	2.372710	33.969397	1.305030	0.015852	0.155808	0.034929	0.002690	0.001511	0.096508	0.000465	0.009371	0.005325	0.001492	0.014923
6-Nov-2027	0.020216	9.751410	15.293800	2.387510	34.181037	1.313140	0.015951	0.156778	0.035147	0.002707	0.001520	0.097112	0.000468	0.009429	0.005358	0.001502	0.015016
7-Nov-2027	0.020403	9.803200	15.374900	2.400240	34.362779	1.320090	0.016036	0.157610	0.035335	0.002721	0.001528	0.097634	0.000471	0.009479	0.005386	0.001510	0.015096
8-Nov-2027	0.020313	9.844130	15.438900	2.410310	34.506449	1.325570	0.016103	0.158267	0.035483	0.002732	0.001535	0.098048	0.000473	0.009519	0.005409	0.001516	0.015159
9-Nov-2027	0.020125	9.900690	15.527700	2.424130	34.704590	1.333200	0.016195	0.159177	0.035686	0.002748	0.001543	0.098609	0.000475	0.009574	0.005440	0.001525	0.015246
10-Nov-2027	0.020084	9.948700	15.602900	2.435910	34.872981	1.339650	0.016274	0.159948	0.035860	0.002761	0.001551	0.099091	0.000478	0.009620	0.005466	0.001532	0.015320
11-Nov-2027	0.020144	9.990930	15.668900	2.446320	35.021298	1.345300	0.016343	0.160625	0.036014	0.002773	0.001558	0.099520	0.000480	0.009661	0.005489	0.001539	0.015385
12-Nov-2027	0.020220	10.030600	15.730900	2.456120	35.160710	1.350600	0.016407	0.161262	0.036159	0.002784	0.001564	0.099925	0.000482	0.009700	0.005511	0.001545	0.015446
13-Nov-2027	0.019955	10.069500	15.791600	2.465690	35.297253	1.355800	0.016471	0.161885	0.036300	0.002795	0.001570	0.100319	0.000483	0.009738	0.005532	0.001551	0.015506
14-Nov-2027	0.019909	10.121500	15.873000	2.478450	35.479643	1.362790	0.016556	0.162720	0.036488	0.002810	0.001578	0.100843	0.000486	0.009788	0.005561	0.001559	0.015586
15-Nov-2027	0.019861	10.172100	15.952500	2.490840	35.657013	1.369620	0.016639	0.163534	0.036669	0.002824	0.001586	0.101350	0.000488	0.009837	0.005589	0.001566	0.015664
16-Nov-2027	0.019350	10.216900	16.022600	2.501780	35.813929	1.375640	0.016712	0.164253	0.036830	0.002836	0.001593	0.101797	0.000490	0.009880	0.005613	0.001573	0.015733
17-Nov-2027	0.019077	10.263300	16.095300	2.513190	35.976777	1.381870	0.016788	0.164998	0.036998	0.002849	0.001600	0.102265	0.000493	0.009925	0.005639	0.001580	0.015804
18-Nov-2027	0.019149	10.305100	16.160700	2.523450	36.123402	1.387480	0.016856	0.165669	0.037148	0.002861	0.001607	0.102686	0.000495	0.009966	0.005662	0.001587	0.015868
19-Nov-2027	0.019161	10.347100	16.226600	2.533780	36.270815	1.393130	0.016925	0.166345	0.037300	0.002873	0.001613	0.103110	0.000497	0.010006	0.005685	0.001593	0.015933
20-Nov-2027	0.018824	10.363800	16.252500	2.537910	36.329522	1.395340	0.016952	0.166610	0.037361	0.002877	0.001616	0.103283	0.000497	0.010023	0.005694	0.001596	0.015959
21-Nov-2027	0.018721	10.405800	16.318200	2.548280	36.477100	1.400970	0.017020	0.167285	0.037513	0.002889	0.001623	0.103712	0.000500	0.010064	0.005717	0.001602	0.016023
22-Nov-2027	0.018822	10.474400	16.425600	2.565110	36.717700	1.410180	0.017132	0.168386	0.037761	0.002908	0.001633	0.104402	0.000503	0.010130	0.005755	0.001613	0.016129
23-Nov-2027	0.018780	10.524500	16.504100	2.577380	36.893327	1.416910	0.017214	0.169190	0.037941	0.002922	0.001641	0.104904	0.000505	0.010178	0.005782	0.001621	0.016206
24-Nov-2027	0.018482	10.569900	16.575100	2.588550	37.052689	1.423000	0.017288	0.169919	0.038105	0.002935	0.001648	0.105363	0.000507	0.010222	0.005807	0.001628	0.016276
25-Nov-2027	0.018404	10.544000	16.534400	2.582240	36.962032	1.419490	0.017246	0.169502	0.038013	0.002928	0.001644	0.105110	0.000506	0.010197	0.005793	0.001624	0.016236
26-Nov-2027	0.018440	10.600200	16.622400	2.596030	37.159151	1.427050	0.017338	0.170405	0.038215	0.002943	0.001653	0.105674	0.000509	0.010252	0.005824	0.001632	0.016323
27-Nov-2027	0.018408	10.646800	16.695500	2.607460	37.322580	1.433320	0.017414	0.171154	0.038383	0.002956	0.001660	0.106142	0.000511	0.010297	0.005849	0.001639	0.016394
28-Nov-2027	0.018289	10.683900	16.753600	2.616560	37.452692	1.438300	0.017475	0.171750	0.038517	0.002967	0.001666	0.106514	0.000513	0.010333	0.005870	0.001645	0.016451
29-Nov-2027	0.018312	10.721100	16.811800	2.625690	37.583178	1.443300	0.017535	0.172347	0.038652	0.002977	0.001672	0.106888	0.000515	0.010369	0.005890	0.001651	0.016509
30-Nov-2027	0.018275	10.768000	16.885400	2.637190	37.747644	1.449610	0.017612	0.173101	0.038821	0.002990	0.001679	0.107359	0.000517	0.010414	0.005916	0.001658	0.016581
1-Dec-2027	0.018089	10.810200	16.951500	2.647530	37.895598	1.455280	0.017681	0.173778	0.038973	0.003002	0.001686	0.107781	0.000519	0.010455	0.005939	0.001665	0.016646
2-Dec-2027	0.018117	10.837200	16.993800	2.654170	37.990360	1.458920	0.017725	0.174213	0.039070	0.003009	0.001690	0.108054	0.000520	0.010481	0.005954	0.001669	0.016687
3-Dec-2027	0.018152	10.879000	17.059400	2.664430	38.136986	1.464540	0.017794	0.174884	0.039221	0.003021	0.001697	0.108474	0.000522	0.010522	0.005977	0.001675	0.016752
4-Dec-2027	0.018115	10.931600	17.141800	2.677310	38.321368	1.471620	0.017880	0.175729	0.039410	0.003036	0.001705	0.108999	0.000525	0.010573	0.006006	0.001683	0.016833
5-Dec-2027	0.018039	10.974100	17.208400	2.687720	38.470359	1.477340	0.017949	0.176412	0.039563	0.003048	0.001712	0.109425	0.000527	0.010614	0.006029	0.001690	0.016898
6-Dec-2027	0.018047	11.025600	17.289000	2.700320	38.650841	1.484260	0.018033	0.177239	0.039748	0.003062	0.001720	0.109939	0.000529	0.010664	0.006058	0.001698	0.016977
7-Dec-2027	0.018024	11.101600	17.408300	2.718960	38.917372	1.494500	0.018158	0.178462	0.040023	0.003083	0.001732	0.110698	0.000533	0.010737	0.006099	0.001709	0.017094
8-Dec-2027	0.017881	11.172100	17.518800	2.736220	39.164488	1.503980	0.018273	0.179594	0.040277	0.003103	0.001743	0.111402	0.000536	0.010805	0.006138	0.001720	0.017203
9-Dec-2027	0.017924	11.239400	17.624400	2.752720	39.400483	1.513040	0.018383	0.180676	0.040519	0.003121	0.001753	0.112076	0.000539	0.010871	0.006175	0.001731	0.017307
10-Dec-2027	0.017918	11.304200	17.725900	2.768580	39.627600	1.521750	0.018489	0.181717	0.040753	0.003139	0.001763	0.112723	0.000543	0.010933	0.006211	0.001741	0.017406
11-Dec-2027	0.017798	11.370100	17.829300	2.784730	39.858658	1.530630	0.018597	0.182777	0.040990	0.003158	0.001773	0.113381	0.000546	0.010997	0.006247	0.001751	0.017508
12-Dec-2027	0.017814	11.063400	17.348100	2.709650	38.783649	1.489320	0.018095	0.177845	0.039884	0.003073	0.001726	0.110331	0.000531	0.010700	0.006078	0.001704	0.017035
13-Dec-2027	0.017774	11.023200	17.283100	2.700380	38.645095	1.483610	0.018028	0.177183	0.039746	0.003062	0.001720	0.110015	0.000529	0.010663	0.006056	0.001697	0.016973
14-Dec-2027	0.017698	11.012700	17.267500	2.697540	38.607182	1.482330	0.018011	0.177020	0.039703	0.003059	0.001718	0.109879	0.000529	0.010652	0.006050	0.001696	0.016957
15-Dec-2027	0.017739	11.065600	17.350200	2.710550	38.792848	1.489410	0.018098	0.177868	0.039895	0.003074	0.001726	0.110412	0.000531	0.010704	0.006079	0.001704	0.017038
16-Dec-2027	0.017684	11.152900	17.486300	2.732240	39.100156	1.501030	0.018240	0.179266	0.040214	0.003098	0.001740	0.111321	0.000535	0.010789	0.006127	0.001717	0.017172
17-Dec-2027	0.017619	11.167400	17.509000	2.735770	39.150899	1.502980	0.018264	0.179499	0.040266	0.003102	0.001743	0.111465	0.000536	0.010803	0.006135	0.001719	0.017195
18-Dec-2027	0.017654	11.235100	17.614800	2.752450	39.388634	1.512040	0.018374	0.180585	0.040512	0.003121	0.001753	0.112153	0.000539	0.010869	0.006172	0.001730	0.017299
19-Dec-2027	0.017649	11.309600	17.731500	2.770770	39.650102	1.522040	0.018496	0.181781	0.040781	0.003142	0.001765	0.112905	0.000543	0.010941	0.006213	0.001741	0.017414
20-Dec-2027	0.017632	11.364400	17.817400	2.784140	39.841995	1.529420	0.018585	0.182662	0.040979	0.003157	0.001774	0.113445	0.000545	0.010994	0.006243	0.001750	0.017498

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21-Dec-2027	0.017646	11.451200	17.952800	2.805650	40.147313	1.540990	0.018727	0.184052	0.041295	0.003182	0.001787	0.114343	0.000549	0.011078	0.006291	0.001763	0.017631
22-Dec-2027	0.017592	11.512000	18.048400	2.820490	40.360242	1.549210	0.018827	0.185031	0.041514	0.003199	0.001797	0.114942	0.000552	0.011137	0.006324	0.001773	0.017725
23-Dec-2027	0.017588	11.558200	18.121200	2.831690	40.521725	1.555490	0.018902	0.185777	0.041678	0.003211	0.001804	0.115387	0.000555	0.011181	0.006350	0.001780	0.017796
24-Dec-2027	0.017569	11.641500	18.251100	2.852230	40.814309	1.566610	0.019038	0.187110	0.041980	0.003235	0.001817	0.116239	0.000559	0.011262	0.006395	0.001792	0.017924
25-Dec-2027	0.017470	11.698200	18.340300	2.866060	41.012840	1.574270	0.019131	0.188023	0.042184	0.003250	0.001826	0.116797	0.000561	0.011317	0.006427	0.001801	0.018012
26-Dec-2027	0.017484	11.725000	18.382900	2.872470	41.106156	1.577980	0.019175	0.188459	0.042278	0.003258	0.001830	0.117044	0.000563	0.011343	0.006441	0.001805	0.018053
27-Dec-2027	0.017498	11.807300	18.511500	2.892780	41.395296	1.588980	0.019310	0.189779	0.042577	0.003281	0.001843	0.117884	0.000567	0.011423	0.006487	0.001818	0.018180
28-Dec-2027	0.017415	11.863700	18.599900	2.906570	41.592914	1.596570	0.019402	0.190685	0.042780	0.003296	0.001852	0.118445	0.000569	0.011477	0.006518	0.001827	0.018267
29-Dec-2027	0.017425	11.881200	18.628000	2.910700	41.653619	1.599020	0.019431	0.190971	0.042840	0.003301	0.001854	0.118598	0.000570	0.011494	0.006527	0.001829	0.018294
30-Dec-2027	0.017439	11.955700	18.744300	2.929090	41.915376	1.608970	0.019552	0.192165	0.043111	0.003322	0.001866	0.119361	0.000574	0.011566	0.006568	0.001841	0.018408
31-Dec-2027	0.017366	12.006300	18.823500	2.941520	42.092910	1.615760	0.019635	0.192977	0.043294	0.003336	0.001874	0.119871	0.000576	0.011615	0.006596	0.001849	0.018486
1-Jan-2028	0.017365	12.023700	18.851300	2.945590	42.153119	1.618190	0.019664	0.193260	0.043353	0.003340	0.001876	0.120021	0.000577	0.011631	0.006605	0.001851	0.018513
2-Jan-2028	0.017380	12.100500	18.971300	2.964570	42.423048	1.628450	0.019789	0.194491	0.043633	0.003362	0.001889	0.120809	0.000581	0.011706	0.006648	0.001863	0.018631
3-Jan-2028	0.017320	12.153900	19.054700	2.977730	42.610580	1.635600	0.019876	0.195348	0.043827	0.003377	0.001897	0.121352	0.000583	0.011758	0.006677	0.001871	0.018713
4-Jan-2028	0.017297	12.164700	19.072300	2.980150	42.647514	1.637160	0.019894	0.195525	0.043862	0.003380	0.001898	0.121432	0.000584	0.011768	0.006683	0.001873	0.018730
5-Jan-2028	0.017307	12.240500	19.190600	2.998890	42.913958	1.647280	0.020018	0.196740	0.044138	0.003401	0.001910	0.122210	0.000587	0.011842	0.006725	0.001885	0.018847
6-Jan-2028	0.017306	12.295500	19.276500	3.012490	43.107297	1.654620	0.020108	0.197621	0.044338	0.003416	0.001919	0.122775	0.000590	0.011895	0.006755	0.001893	0.018931
7-Jan-2028	0.017280	12.338500	19.344300	3.022910	43.257578	1.660460	0.020178	0.198315	0.044491	0.003428	0.001926	0.123190	0.000592	0.011936	0.006778	0.001900	0.018997
8-Jan-2028	0.017300	12.394000	19.431100	3.036520	43.452207	1.667910	0.020269	0.199206	0.044692	0.003444	0.001934	0.123746	0.000595	0.011990	0.006809	0.001908	0.019083
9-Jan-2028	0.017291	12.448700	19.516500	3.050080	43.644633	1.675210	0.020358	0.200083	0.044891	0.003459	0.001943	0.124312	0.000597	0.012043	0.006839	0.001917	0.019167
10-Jan-2028	0.017246	12.480500	19.566700	3.057720	43.755499	1.679550	0.020410	0.200596	0.045003	0.003468	0.001948	0.124612	0.000599	0.012074	0.006856	0.001922	0.019216
11-Jan-2028	0.017254	12.521200	19.630700	3.067640	43.897978	1.685060	0.020477	0.201252	0.045149	0.003479	0.001954	0.125011	0.000601	0.012113	0.006879	0.001928	0.019279
12-Jan-2028	0.017254	12.590200	19.738300	3.084720	44.140606	1.694250	0.020589	0.202356	0.045401	0.003498	0.001965	0.125724	0.000604	0.012180	0.006917	0.001938	0.019385
13-Jan-2028	0.017203	12.633400	19.806200	3.095280	44.291963	1.700080	0.020660	0.203052	0.045556	0.003510	0.001972	0.126151	0.000606	0.012222	0.006940	0.001945	0.019451
14-Jan-2028	0.017223	12.673000	19.868600	3.104880	44.430377	1.705470	0.020725	0.203691	0.045697	0.003521	0.001978	0.126533	0.000608	0.012260	0.006962	0.001951	0.019512
15-Jan-2028	0.017234	12.733800	19.963600	3.119910	44.644088	1.713590	0.020824	0.204665	0.045919	0.003538	0.001988	0.127158	0.000611	0.012319	0.006995	0.001961	0.019606
16-Jan-2028	0.017198	12.776200	20.030000	3.130290	44.792706	1.719290	0.020894	0.205346	0.046071	0.003550	0.001994	0.127581	0.000613	0.012360	0.007019	0.001967	0.019671
17-Jan-2028	0.017167	12.812700	20.087600	3.139130	44.920249	1.724260	0.020954	0.205936	0.046201	0.003560	0.002000	0.127932	0.000615	0.012395	0.007039	0.001973	0.019727
18-Jan-2028	0.017158	12.878200	20.190100	3.155230	45.150103	1.733040	0.021061	0.206987	0.046438	0.003578	0.002010	0.128593	0.000618	0.012459	0.007075	0.001983	0.019828
19-Jan-2028	0.017134	12.928200	20.268200	3.167540	45.325645	1.739740	0.021142	0.207789	0.046619	0.003592	0.002018	0.129100	0.000620	0.012507	0.007102	0.001991	0.019905
20-Jan-2028	0.017101	12.971800	20.336700	3.178190	45.478371	1.745620	0.021214	0.208490	0.046776	0.003604	0.002025	0.129532	0.000622	0.012549	0.007126	0.001997	0.019972
21-Jan-2028	0.017094	13.030100	20.428200	3.192450	45.682669	1.753480	0.021309	0.209428	0.046986	0.003621	0.002034	0.130111	0.000625	0.012606	0.007158	0.002006	0.020062
22-Jan-2028	0.017101	13.100200	20.537900	3.209650	45.928538	1.762900	0.021424	0.210554	0.047239	0.003640	0.002045	0.130815	0.000629	0.012674	0.007197	0.002017	0.020170
23-Jan-2028	0.017081	13.146300	20.610400	3.220940	46.090142	1.769130	0.021499	0.211297	0.047405	0.003653	0.002052	0.131272	0.000631	0.012718	0.007222	0.002024	0.020241
24-Jan-2028	0.017054	13.183000	20.668300	3.229800	46.218267	1.774130	0.021559	0.211889	0.047535	0.003663	0.002058	0.131622	0.000633	0.012753	0.007242	0.002030	0.020298
25-Jan-2028	0.017052	13.219800	20.726400	3.238720	46.346890	1.779130	0.021620	0.212483	0.047666	0.003673	0.002063	0.131978	0.000634	0.012789	0.007263	0.002035	0.020354
26-Jan-2028	0.017035	13.244700	20.765700	3.244690	46.433649	1.782540	0.021661	0.212885	0.047754	0.003680	0.002067	0.132210	0.000636	0.012812	0.007276	0.002039	0.020393
27-Jan-2028	0.017025	13.307100	20.863700	3.259930	46.652220	1.790960	0.021763	0.213889	0.047978	0.003697	0.002077	0.132828	0.000639	0.012873	0.007311	0.002049	0.020489
28-Jan-2028	0.017025	13.372900	20.967000	3.276030	46.882823	1.799830	0.021870	0.214948	0.048215	0.003715	0.002087	0.133482	0.000642	0.012936	0.007347	0.002059	0.020590
29-Jan-2028	0.017026	13.429600	21.055900	3.289880	47.081437	1.807480	0.021963	0.215859	0.048419	0.003731	0.002096	0.134043	0.000644	0.012991	0.007378	0.002068	0.020678
30-Jan-2028	0.017001	13.492600	21.154800	3.305280	47.302165	1.815980	0.022066	0.216873	0.048646	0.003749	0.002105	0.134667	0.000648	0.013052	0.007413	0.002077	0.020775
31-Jan-2028	0.016990	13.575100	21.284300	3.325470	47.591310	1.827090	0.022201	0.218200	0.048943	0.003771	0.002118	0.135488	0.000651	0.013132	0.007458	0.002090	0.020902
1-Feb-2028	0.016980	13.651700	21.404400	3.344210	47.859752	1.837410	0.022327	0.219431	0.049219	0.003793	0.002130	0.136250	0.000655	0.013206	0.007500	0.002102	0.021020
2-Feb-2028	0.016976	13.738800	21.542400	3.365180	48.163595	1.849350	0.022470	0.220842	0.049527	0.003816	0.002143	0.137067	0.000659	0.013289	0.007548	0.002115	0.021154
3-Feb-2028	0.016971	13.873300	21.753200	3.398110	48.635047	1.867440	0.022690	0.223003	0.050012	0.003854	0.002164	0.138409	0.000666	0.013419	0.007622	0.002136	0.021361
4-Feb-2028	0.016966	14.003800	21.957800	3.430090	49.092599	1.885010	0.022903	0.225101	0.050483	0.003890	0.002185	0.139712	0.000672	0.013545	0.007694	0.002156	0.021562
5-Feb-2028	0.016961	14.130300	22.156200	3.461090	49.536128	1.902040	0.023110	0.227135	0.050939	0.003925	0.002204	0.140976	0.000678	0.013668	0.007763	0.002176	0.021757
6-Feb-2028	0.016957	14.252800	22.348200	3.491090	49.965550	1.918510	0.023311	0.229103	0.051381	0.003959	0.002223	0.142198	0.000684	0.013786	0.007830	0.002195	0.021945
7-Feb-2028	0.016952	14.371900	22.535000	3.520280	50.383147	1.934550	0.023505	0.231018	0.051810	0.003992	0.002242	0.143388	0.000690	0.013901	0.007896	0.002213	0.022129
8-Feb-2028	0.016947	14.489300	22.719000	3.549030	50.794688	1.950350	0.023697	0.232904	0.052233	0.004025	0.002260	0.144560	0.000695	0.014015	0.007960	0.002231	0.022310
9-Feb-2028	0.016943	14.607700	22.904600	3.578040	51.209796	1.966280	0.023891	0.234807	0.052660	0.004058	0.002279	0.145741	0.000701	0.014129	0.008025	0.002249	0.022492
10-Feb-2028	0.016937	14.720600	23.081600	3.605690	51.605570	1.981470	0.024076	0.236622	0.053067	0.004089	0.002296	0.146868	0.000707	0.014239	0.008087	0.002267	0.022666

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Feb-2028	0.016930	14.828700	23.251100	3.632170	51.984540	1.996020	0.024252	0.238359	0.053457	0.004119	0.002313	0.147947	0.000712	0.014343	0.008147	0.002283	0.022832
12-Feb-2028	0.016921	14.951500	23.443600	3.662250	52.415041	2.012550	0.024453	0.240333	0.053899	0.004153	0.002332	0.149173	0.000718	0.014462	0.008214	0.002302	0.023021
13-Feb-2028	0.016915	15.084300	23.651900	3.694790	52.880642	2.030420	0.024670	0.242468	0.054378	0.004190	0.002353	0.150499	0.000724	0.014590	0.008287	0.002323	0.023226
14-Feb-2028	0.016910	15.222100	23.867900	3.728540	53.363711	2.048970	0.024896	0.244682	0.054875	0.004229	0.002375	0.151875	0.000731	0.014724	0.008363	0.002344	0.023438
15-Feb-2028	0.016909	15.362400	24.088000	3.762930	53.855659	2.067860	0.025125	0.246938	0.055381	0.004268	0.002397	0.153275	0.000737	0.014859	0.008440	0.002365	0.023654
16-Feb-2028	0.016908	15.526800	24.345700	3.803180	54.431915	2.089980	0.025394	0.249580	0.055974	0.004313	0.002422	0.154915	0.000745	0.015018	0.008530	0.002391	0.023907
17-Feb-2028	0.016904	15.704000	24.623400	3.846570	55.053063	2.113830	0.025684	0.252428	0.056612	0.004362	0.002450	0.156683	0.000754	0.015190	0.008628	0.002418	0.024180
18-Feb-2028	0.016897	15.888400	24.912600	3.891740	55.699520	2.138650	0.025985	0.255392	0.057277	0.004414	0.002479	0.158522	0.000763	0.015368	0.008729	0.002446	0.024464
19-Feb-2028	0.016893	16.086700	25.223600	3.940330	56.394769	2.165350	0.026310	0.258580	0.057992	0.004469	0.002510	0.160501	0.000772	0.015560	0.008838	0.002477	0.024769
20-Feb-2028	0.016894	16.245900	25.473200	3.979320	56.952852	2.186780	0.026570	0.261139	0.058566	0.004513	0.002534	0.162090	0.000780	0.015714	0.008925	0.002501	0.025014
21-Feb-2028	0.016893	16.372200	25.671300	4.010260	57.395634	2.203790	0.026777	0.263170	0.059021	0.004548	0.002554	0.163350	0.000786	0.015836	0.008995	0.002521	0.025209
22-Feb-2028	0.016889	15.476300	24.266000	3.790950	54.255453	2.083110	0.025311	0.248765	0.055793	0.004299	0.002414	0.154430	0.000743	0.014970	0.008503	0.002383	0.023829
23-Feb-2028	0.016887	15.580700	24.429800	3.816520	54.621437	2.097170	0.025482	0.250443	0.056170	0.004328	0.002431	0.155472	0.000748	0.015071	0.008560	0.002399	0.023990
24-Feb-2028	0.016886	15.702600	24.620900	3.846370	55.048744	2.113580	0.025681	0.252403	0.056609	0.004362	0.002450	0.156687	0.000754	0.015189	0.008627	0.002418	0.024178
25-Feb-2028	0.016884	15.838600	24.834200	3.879690	55.525548	2.131890	0.025904	0.254589	0.057099	0.004400	0.002471	0.158044	0.000760	0.015320	0.008702	0.002439	0.024387
26-Feb-2028	0.016882	15.981200	25.057700	3.914610	56.025420	2.151080	0.026137	0.256881	0.057613	0.004440	0.002493	0.159467	0.000767	0.015458	0.008780	0.002461	0.024606
27-Feb-2028	0.016880	16.116700	25.270100	3.947790	56.500399	2.169320	0.026359	0.259058	0.058101	0.004477	0.002514	0.160818	0.000773	0.015589	0.008854	0.002482	0.024815
28-Feb-2028	0.016878	16.261200	25.496800	3.983200	57.007034	2.188780	0.026595	0.261382	0.058623	0.004517	0.002537	0.162261	0.000780	0.015729	0.008934	0.002504	0.025038
29-Feb-2028	0.016876	16.416400	25.740000	4.021200	57.551052	2.209660	0.026849	0.263876	0.059182	0.004561	0.002561	0.163808	0.000788	0.015879	0.009019	0.002528	0.025277
1-Mar-2028	0.016874	16.576100	25.990500	4.060330	58.110961	2.231160	0.027110	0.266443	0.059758	0.004605	0.002586	0.165402	0.000796	0.016034	0.009107	0.002552	0.025522
2-Mar-2028	0.016872	16.739500	26.246800	4.100360	58.683814	2.253150	0.027377	0.269070	0.060347	0.004650	0.002612	0.167033	0.000803	0.016192	0.009197	0.002577	0.025774
3-Mar-2028	0.016869	16.915200	26.522200	4.143390	59.299734	2.276800	0.027665	0.271894	0.060980	0.004699	0.002639	0.168786	0.000812	0.016362	0.009293	0.002604	0.026045
4-Mar-2028	0.016868	17.102700	26.816200	4.189310	59.957020	2.302040	0.027971	0.274908	0.061656	0.004751	0.002668	0.170656	0.000821	0.016543	0.009396	0.002633	0.026333
5-Mar-2028	0.016868	17.288900	27.108200	4.234930	60.609825	2.327110	0.028276	0.277901	0.062327	0.004803	0.002697	0.172515	0.000830	0.016723	0.009498	0.002662	0.026620
6-Mar-2028	0.016868	17.479300	27.406800	4.281580	61.277359	2.352740	0.028587	0.280962	0.063014	0.004856	0.002727	0.174415	0.000839	0.016907	0.009603	0.002691	0.026913
7-Mar-2028	0.016867	17.679500	27.720500	4.330600	61.979122	2.379670	0.028914	0.284179	0.063735	0.004911	0.002758	0.176412	0.000848	0.017101	0.009713	0.002722	0.027221
8-Mar-2028	0.016867	17.891900	28.053600	4.382630	62.723745	2.408260	0.029262	0.287593	0.064501	0.004970	0.002791	0.178532	0.000859	0.017306	0.009830	0.002755	0.027548
9-Mar-2028	0.016867	18.106400	28.389900	4.435170	63.475711	2.437140	0.029613	0.291041	0.065274	0.005030	0.002825	0.180672	0.000869	0.017514	0.009947	0.002788	0.027879
10-Mar-2028	0.016868	18.323000	28.729500	4.488230	64.235062	2.466290	0.029967	0.294523	0.066055	0.005090	0.002859	0.182833	0.000879	0.017723	0.010067	0.002821	0.028212
11-Mar-2028	0.016867	18.557300	29.097000	4.545630	65.056482	2.497830	0.030350	0.298290	0.066900	0.005155	0.002895	0.185172	0.000891	0.017950	0.010195	0.002857	0.028573
12-Mar-2028	0.016864	15.384700	24.122900	3.768340	53.933620	2.070870	0.025162	0.247296	0.055460	0.004274	0.002400	0.153495	0.000738	0.014881	0.008452	0.002369	0.023688
13-Mar-2028	0.016863	15.471100	24.258400	3.789490	54.236457	2.082500	0.025303	0.248685	0.055772	0.004298	0.002413	0.154356	0.000743	0.014964	0.008500	0.002382	0.023821
14-Mar-2028	0.016863	15.537200	24.362100	3.805700	54.468261	2.091410	0.025411	0.249748	0.056010	0.004316	0.002424	0.155016	0.000746	0.015028	0.008536	0.002392	0.023923
15-Mar-2028	0.016862	15.608800	24.474300	3.823220	54.719194	2.101030	0.025528	0.250898	0.056268	0.004336	0.002435	0.155730	0.000749	0.015098	0.008575	0.002403	0.024033
16-Mar-2028	0.016862	15.659900	24.554500	3.835750	54.898389	2.107920	0.025612	0.251720	0.056452	0.004350	0.002443	0.156240	0.000752	0.015147	0.008603	0.002411	0.024112
17-Mar-2028	0.016862	15.763300	24.716700	3.861080	55.260888	2.121840	0.025781	0.253383	0.056825	0.004379	0.002459	0.157272	0.000757	0.015247	0.008660	0.002427	0.024271
18-Mar-2028	0.016862	15.884700	24.906900	3.890800	55.686410	2.138180	0.025979	0.255333	0.057263	0.004413	0.002478	0.158483	0.000762	0.015364	0.008727	0.002446	0.024458
19-Mar-2028	0.016861	16.009700	25.103000	3.921430	56.124670	2.155000	0.026184	0.257343	0.057713	0.004447	0.002497	0.159730	0.000768	0.015485	0.008796	0.002465	0.024651
20-Mar-2028	0.016861	16.146300	25.317200	3.954890	56.603548	2.173400	0.026407	0.259539	0.058206	0.004485	0.002519	0.161093	0.000775	0.015618	0.008871	0.002486	0.024861
21-Mar-2028	0.016861	16.276600	25.521400	3.986790	57.060271	2.190920	0.026620	0.261632	0.058675	0.004522	0.002539	0.162392	0.000781	0.015744	0.008942	0.002506	0.025061
22-Mar-2028	0.016861	16.402300	25.718600	4.017590	57.500979	2.207850	0.026826	0.263654	0.059129	0.004556	0.002559	0.163647	0.000787	0.015865	0.009011	0.002526	0.025255
23-Mar-2028	0.016861	16.530100	25.918900	4.048890	57.948989	2.225050	0.027035	0.265708	0.059589	0.004592	0.002579	0.164922	0.000793	0.015989	0.009082	0.002545	0.025452
24-Mar-2028	0.016861	16.657300	26.118500	4.080060	58.394965	2.242180	0.027243	0.267753	0.060048	0.004627	0.002598	0.166191	0.000799	0.016112	0.009151	0.002565	0.025648
25-Mar-2028	0.016861	16.779600	26.310100	4.109990	58.823600	2.258630	0.027443	0.269718	0.060488	0.004661	0.002618	0.167411	0.000805	0.016230	0.009219	0.002584	0.025836
26-Mar-2028	0.016861	16.903800	26.505000	4.140440	59.259121	2.275360	0.027646	0.271716	0.060936	0.004696	0.002637	0.168651	0.000811	0.016350	0.009287	0.002603	0.026027
27-Mar-2028	0.016861	17.034000	26.709100	4.172330	59.715553	2.292890	0.027859	0.273808	0.061406	0.004732	0.002657	0.169950	0.000818	0.016476	0.009358	0.002623	0.026228
28-Mar-2028	0.016861	17.169900	26.922100	4.205600	60.191901	2.311170	0.028081	0.275992	0.061896	0.004770	0.002678	0.171305	0.000824	0.016608	0.009433	0.002644	0.026437
29-Mar-2028	0.016861	17.310200	27.142100	4.239960	60.683725	2.330060	0.028311	0.278247	0.062401	0.004809	0.002700	0.172705	0.000831	0.016743	0.009510	0.002665	0.026653
30-Mar-2028	0.016861	17.455100	27.369300	4.275450	61.191688	2.349560	0.028548	0.280576	0.062924	0.004849	0.002723	0.174150	0.000838	0.016883	0.009590	0.002688	0.026876
31-Mar-2028	0.016861	17.604400	27.603500	4.312040	61.715168	2.369670	0.028792	0.282977	0.063462	0.004890	0.002746	0.175640	0.000845	0.017028	0.009672	0.002711	0.027106
1-Apr-2028	0.016861	17.731000	27.801900	4.343040	62.158946	2.386700	0.028999	0.285012	0.063918	0.004926	0.002766	0.176903	0.000851	0.017150	0.009741	0.002730	0.027301
2-Apr-2028	0.016861	17.709300	27.767900	4.337720	62.082853	2.383780	0.028964	0.284662	0.063840	0.004920	0.002763	0.176686	0.000850	0.017129	0.009729	0.002727	0.027267

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
3-Apr-2028	0.016861	17.684100	27.728400	4.331550	61.994521	2.380390	0.028922	0.284258	0.063749	0.004913	0.002759	0.176435	0.000849	0.017105	0.009716	0.002723	0.027229
4-Apr-2028	0.016861	17.679000	27.720400	4.330300	61.976638	2.379700	0.028914	0.284175	0.063731	0.004911	0.002758	0.176384	0.000849	0.017100	0.009713	0.002722	0.027221
5-Apr-2028	0.016861	17.673100	27.711100	4.328860	61.955976	2.378910	0.028904	0.284081	0.063710	0.004910	0.002757	0.176326	0.000848	0.017094	0.009710	0.002721	0.027212
6-Apr-2028	0.016861	17.666200	27.700300	4.327160	61.931746	2.377980	0.028893	0.283970	0.063685	0.004908	0.002756	0.176257	0.000848	0.017088	0.009706	0.002720	0.027201
7-Apr-2028	0.016861	17.658600	27.688400	4.325310	61.905151	2.376960	0.028881	0.283848	0.063657	0.004905	0.002755	0.176181	0.000848	0.017080	0.009702	0.002719	0.027189
8-Apr-2028	0.016860	17.650600	27.675900	4.323360	61.877145	2.375890	0.028868	0.283720	0.063629	0.004903	0.002753	0.176102	0.000847	0.017073	0.009697	0.002718	0.027177
9-Apr-2028	0.016860	17.642300	27.662900	4.321320	61.848019	2.374760	0.028854	0.283586	0.063599	0.004901	0.002752	0.176018	0.000847	0.017065	0.009693	0.002716	0.027164
10-Apr-2028	0.016860	17.633500	27.649100	4.319160	61.817150	2.373580	0.028840	0.283445	0.063567	0.004899	0.002751	0.175931	0.000846	0.017056	0.009688	0.002715	0.027151
11-Apr-2028	0.016860	17.620100	27.628000	4.315870	61.770142	2.371770	0.028818	0.283228	0.063518	0.004895	0.002749	0.175796	0.000846	0.017043	0.009680	0.002713	0.027130
12-Apr-2028	0.016860	17.586900	27.576000	4.307750	61.653804	2.367310	0.028763	0.282696	0.063399	0.004886	0.002744	0.175466	0.000844	0.017011	0.009662	0.002708	0.027079
13-Apr-2028	0.016860	17.583800	27.571100	4.306990	61.642933	2.366890	0.028758	0.282645	0.063388	0.004885	0.002743	0.175435	0.000844	0.017008	0.009660	0.002707	0.027074
14-Apr-2028	0.016860	17.570000	27.549400	4.303600	61.594515	2.365030	0.028736	0.282423	0.063338	0.004881	0.002741	0.175297	0.000843	0.016995	0.009653	0.002705	0.027053
15-Apr-2028	0.016860	17.553900	27.524300	4.299670	61.538129	2.362870	0.028709	0.282165	0.063280	0.004876	0.002738	0.175136	0.000842	0.016979	0.009644	0.002703	0.027028
16-Apr-2028	0.016860	17.541300	27.504500	4.296580	61.493943	2.361170	0.028689	0.281962	0.063234	0.004873	0.002736	0.175011	0.000842	0.016967	0.009637	0.002701	0.027009
17-Apr-2028	0.016860	17.525600	27.479800	4.292730	61.438885	2.359050	0.028663	0.281710	0.063178	0.004869	0.002734	0.174854	0.000841	0.016952	0.009628	0.002698	0.026985
18-Apr-2028	0.016860	17.511100	27.457100	4.289180	61.388060	2.357100	0.028639	0.281477	0.063126	0.004865	0.002732	0.174709	0.000840	0.016938	0.009621	0.002696	0.026962
19-Apr-2028	0.016860	17.491400	27.426200	4.284350	61.318979	2.354450	0.028607	0.281160	0.063055	0.004859	0.002729	0.174513	0.000839	0.016919	0.009610	0.002693	0.026932
20-Apr-2028	0.016860	17.472300	27.396200	4.279660	61.251973	2.351880	0.028576	0.280853	0.062986	0.004854	0.002726	0.174322	0.000839	0.016900	0.009599	0.002690	0.026902
21-Apr-2028	0.016860	17.450700	27.362500	4.274390	61.176336	2.348980	0.028541	0.280506	0.062908	0.004848	0.002722	0.174107	0.000838	0.016879	0.009587	0.002687	0.026869
22-Apr-2028	0.016860	17.428700	27.328000	4.269000	61.099206	2.346020	0.028505	0.280153	0.062829	0.004842	0.002719	0.173887	0.000836	0.016858	0.009575	0.002684	0.026835
23-Apr-2028	0.016860	17.409400	27.297700	4.264270	61.031536	2.343410	0.028473	0.279842	0.062759	0.004836	0.002716	0.173694	0.000836	0.016839	0.009565	0.002681	0.026806
24-Apr-2028	0.016860	17.391000	27.268700	4.259750	60.966978	2.340930	0.028443	0.279546	0.062692	0.004831	0.002713	0.173511	0.000835	0.016821	0.009555	0.002678	0.026777
25-Apr-2028	0.016860	17.373000	27.240600	4.255350	60.903912	2.338510	0.028414	0.279257	0.062628	0.004826	0.002710	0.173331	0.000834	0.016804	0.009545	0.002675	0.026750
26-Apr-2028	0.016860	17.356900	27.215300	4.251400	60.847445	2.336340	0.028387	0.278997	0.062570	0.004822	0.002708	0.173170	0.000833	0.016788	0.009536	0.002672	0.026725
27-Apr-2028	0.016860	17.342200	27.192300	4.247810	60.795955	2.334370	0.028363	0.278762	0.062517	0.004818	0.002705	0.173024	0.000832	0.016774	0.009528	0.002670	0.026702
28-Apr-2028	0.016860	17.328300	27.170500	4.244400	60.747204	2.332500	0.028340	0.278538	0.062467	0.004814	0.002703	0.172885	0.000832	0.016761	0.009520	0.002668	0.026681
29-Apr-2028	0.016878	17.313400	27.147100	4.240750	60.694968	2.330490	0.028316	0.278299	0.062413	0.004810	0.002701	0.172737	0.000831	0.016746	0.009512	0.002666	0.026658
30-Apr-2028	0.017067	17.283600	27.100400	4.233460	60.590537	2.326480	0.028267	0.277820	0.062306	0.004801	0.002696	0.172440	0.000830	0.016718	0.009496	0.002661	0.026612
1-May-2028	0.018135	17.177100	26.933500	4.207370	60.217168	2.312150	0.028093	0.276108	0.061922	0.004772	0.002680	0.171377	0.000824	0.016615	0.009437	0.002645	0.026448
2-May-2028	0.022489	16.769900	26.295000	4.107640	58.789702	2.257340	0.027427	0.269563	0.060454	0.004659	0.002616	0.167315	0.000805	0.016221	0.009213	0.002582	0.025821
3-May-2028	0.027585	16.383600	25.689200	4.013010	57.435424	2.205340	0.026795	0.263353	0.059061	0.004551	0.002556	0.163460	0.000786	0.015847	0.009001	0.002523	0.025226
4-May-2028	0.033013	16.279500	25.526000	3.987510	57.070478	2.191320	0.026625	0.261680	0.058686	0.004522	0.002540	0.162422	0.000781	0.015746	0.008944	0.002507	0.025066
5-May-2028	0.037991	16.170500	25.355100	3.960820	56.688395	2.176660	0.026447	0.259928	0.058293	0.004492	0.002523	0.161334	0.000776	0.015641	0.008884	0.002490	0.024898
6-May-2028	0.043898	16.082200	25.216700	3.939190	56.378838	2.164770	0.026303	0.258509	0.057975	0.004468	0.002509	0.160453	0.000772	0.015556	0.008836	0.002476	0.024762
7-May-2028	0.048545	16.043000	25.155200	3.929590	56.241423	2.159490	0.026238	0.257879	0.057833	0.004457	0.002503	0.160062	0.000770	0.015518	0.008814	0.002470	0.024702
8-May-2028	0.052822	16.005000	25.095600	3.920270	56.108157	2.154370	0.026176	0.257267	0.057696	0.004446	0.002497	0.159683	0.000768	0.015481	0.008793	0.002464	0.024643
9-May-2028	0.057257	15.961600	25.027600	3.909650	55.956054	2.148540	0.026105	0.256570	0.057540	0.004434	0.002490	0.159250	0.000766	0.015439	0.008769	0.002458	0.024577
10-May-2028	0.066643	15.892800	24.919700	3.892800	55.714872	2.139270	0.025993	0.255464	0.057292	0.004415	0.002479	0.158564	0.000763	0.015372	0.008731	0.002447	0.024471
11-May-2028	0.070972	15.835800	24.830300	3.878830	55.515015	2.131600	0.025899	0.254548	0.057086	0.004399	0.002470	0.157995	0.000760	0.015317	0.008700	0.002438	0.024383
12-May-2028	0.074363	15.761800	24.714200	3.860690	55.255536	2.121630	0.025778	0.253357	0.056819	0.004379	0.002459	0.157256	0.000756	0.015246	0.008659	0.002427	0.024269
13-May-2028	0.087683	15.676400	24.580300	3.839790	54.956226	2.110140	0.025639	0.251985	0.056512	0.004355	0.002445	0.156404	0.000752	0.015163	0.008613	0.002414	0.024137
14-May-2028	0.096870	15.592200	24.448300	3.819150	54.660983	2.098800	0.025501	0.250631	0.056208	0.004331	0.002432	0.155564	0.000748	0.015082	0.008566	0.002401	0.024008
15-May-2028	0.107071	15.458000	24.237900	3.786300	54.190609	2.080740	0.025282	0.248475	0.055725	0.004294	0.002411	0.154226	0.000742	0.014952	0.008493	0.002380	0.023801
16-May-2028	0.125945	15.353200	24.073600	3.760630	53.823215	2.066640	0.025110	0.246790	0.055347	0.004265	0.002395	0.153180	0.000737	0.014850	0.008435	0.002364	0.023640
17-May-2028	0.137060	15.230100	23.880500	3.730470	53.391635	2.050060	0.024909	0.244811	0.054903	0.004231	0.002376	0.151952	0.000731	0.014731	0.008367	0.002345	0.023450
18-May-2028	0.140641	15.094500	23.667900	3.697260	52.916283	2.031810	0.024687	0.242631	0.054414	0.004193	0.002355	0.150599	0.000724	0.014600	0.008293	0.002324	0.023241
19-May-2028	0.146400	14.952500	23.445200	3.662480	52.418485	2.012690	0.024455	0.240348	0.053902	0.004154	0.002333	0.149182	0.000718	0.014463	0.008215	0.002302	0.023023
20-May-2028	0.155432	14.548000	22.810900	3.563420	51.000520	1.958230	0.023793	0.233845	0.052445	0.004041	0.002270	0.145148	0.000698	0.014072	0.007993	0.002240	0.022400
21-May-2028	0.175091	14.199400	22.264400	3.478050	49.778512	1.911310	0.023223	0.228242	0.051189	0.003945	0.002215	0.141671	0.000681	0.013735	0.007801	0.002186	0.021863
22-May-2028	0.195497	13.987800	21.932500	3.426250	49.036834	1.882800	0.022877	0.224838	0.050428	0.003886	0.002182	0.139562	0.000671	0.013530	0.007685	0.002154	0.021537
23-May-2028	0.214501	13.632300	21.374900	3.339220	47.790761	1.834910	0.022295	0.219120	0.049149	0.003787	0.002127	0.136019	0.000654	0.013186	0.007489	0.002099	0.020990
24-May-2028	0.226595	13.208500	20.710300	3.235450	46.305208	1.777840	0.021602	0.212305	0.047622	0.003669	0.002061	0.131793	0.000634	0.012777	0.007257	0.002034	0.020337

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-May-2028	0.238123	13.051300	20.463700	3.196970	45.754219	1.756670	0.021344	0.209777	0.047057	0.003625	0.002036	0.130226	0.000626	0.012625	0.007170	0.002009	0.020095
26-May-2028	0.262183	12.692500	19.900900	3.109100	44.496446	1.708340	0.020757	0.204006	0.045764	0.003526	0.001980	0.126648	0.000609	0.012278	0.006973	0.001954	0.019542
27-May-2028	0.282742	12.447700	19.517000	3.049170	43.638389	1.675360	0.020357	0.200069	0.044883	0.003458	0.001942	0.124208	0.000597	0.012041	0.006839	0.001917	0.019165
28-May-2028	0.307848	12.356500	19.374000	3.026870	43.318831	1.663080	0.020207	0.198602	0.044556	0.003432	0.001928	0.123300	0.000593	0.011953	0.006789	0.001902	0.019025
29-May-2028	0.333080	12.199600	19.127900	2.988430	42.768756	1.641950	0.019951	0.196079	0.043990	0.003389	0.001904	0.121735	0.000585	0.011801	0.006702	0.001878	0.018783
30-May-2028	0.355091	12.114900	18.995000	2.967710	42.471935	1.630540	0.019812	0.194717	0.043686	0.003365	0.001890	0.120891	0.000581	0.011719	0.006656	0.001865	0.018653
31-May-2028	0.371504	12.097800	18.968000	2.963560	42.412147	1.628190	0.019784	0.194437	0.043626	0.003360	0.001888	0.120724	0.000581	0.011703	0.006646	0.001863	0.018626
1-Jun-2028	0.406853	11.992900	18.803200	2.937970	42.044832	1.614010	0.019612	0.192746	0.043250	0.003331	0.001872	0.119687	0.000576	0.011602	0.006589	0.001846	0.018465
2-Jun-2028	0.484399	11.842800	18.567000	2.901480	41.519766	1.593630	0.019365	0.190319	0.042719	0.003289	0.001849	0.118214	0.000568	0.011458	0.006506	0.001823	0.018233
3-Jun-2028	0.675270	11.670700	18.294200	2.860180	40.919959	1.569890	0.019080	0.187513	0.042142	0.003241	0.001823	0.116564	0.000560	0.011295	0.006411	0.001797	0.017969
4-Jun-2028	0.893200	11.486400	17.993400	2.818420	40.287794	1.543090	0.018763	0.184394	0.041655	0.003186	0.001801	0.114979	0.000550	0.011132	0.006308	0.001769	0.017691
5-Jun-2028	0.952461	11.257400	17.614800	2.768470	39.510287	1.508510	0.018361	0.180431	0.041245	0.003117	0.001778	0.113189	0.000538	0.010938	0.006179	0.001735	0.017348
6-Jun-2028	0.971141	11.061400	17.289200	2.725340	38.843266	1.478600	0.018016	0.177035	0.040813	0.003058	0.001758	0.111552	0.000528	0.010769	0.006069	0.001706	0.017055
7-Jun-2028	1.009403	10.873400	16.974500	2.685070	38.207998	1.449310	0.017681	0.173729	0.040508	0.003000	0.001742	0.110104	0.000518	0.010613	0.005963	0.001677	0.016774
8-Jun-2028	1.085786	10.670400	16.631600	2.642520	37.525886	1.417110	0.017316	0.170124	0.040143	0.002936	0.001724	0.108613	0.000507	0.010448	0.005848	0.001647	0.016473
9-Jun-2028	1.270067	10.503800	16.344700	2.609140	36.972427	1.389470	0.017004	0.167026	0.039820	0.002882	0.001710	0.107484	0.000498	0.010319	0.005752	0.001622	0.016223
10-Jun-2028	1.588478	10.327700	16.049100	2.571640	36.378280	1.361730	0.016689	0.163921	0.039462	0.002827	0.001693	0.106143	0.000488	0.010173	0.005653	0.001596	0.015960
11-Jun-2028	1.807464	10.153600	15.749000	2.536850	35.800288	1.332770	0.016365	0.160710	0.039538	0.002771	0.001687	0.105038	0.000478	0.010040	0.005553	0.001570	0.015701
12-Jun-2028	2.048351	9.941080	15.386100	2.493980	35.093086	1.298000	0.015972	0.156793	0.039436	0.002703	0.001679	0.103992	0.000467	0.009876	0.005432	0.001538	0.015381
13-Jun-2028	2.264910	9.785950	15.117500	2.465610	34.588899	1.271990	0.015684	0.153929	0.039268	0.002653	0.001668	0.102811	0.000458	0.009768	0.005343	0.001516	0.015160
14-Jun-2028	2.404950	9.649210	14.878900	2.435990	34.125484	1.248680	0.015428	0.151375	0.039099	0.002608	0.001655	0.101776	0.000450	0.009652	0.005264	0.001495	0.014952
15-Jun-2028	2.448943	9.494040	14.612500	2.407420	33.620373	1.223500	0.015139	0.148486	0.038869	0.002559	0.001643	0.100844	0.000441	0.009544	0.005175	0.001473	0.014731
16-Jun-2028	2.466890	9.362160	14.386300	2.376980	33.165717	1.201700	0.014900	0.145962	0.038704	0.002519	0.001632	0.099771	0.000434	0.009428	0.005101	0.001452	0.014520
17-Jun-2028	2.441287	9.195940	14.098700	2.343290	32.611930	1.174180	0.014598	0.142926	0.038493	0.002469	0.001622	0.098781	0.000425	0.009302	0.005006	0.001427	0.014272
18-Jun-2028	2.382915	9.011650	13.775500	2.307210	32.003181	1.142780	0.014256	0.139505	0.038341	0.002411	0.001612	0.097863	0.000414	0.009167	0.004900	0.001400	0.013999
19-Jun-2028	2.355937	8.849460	13.490100	2.277640	31.476423	1.114070	0.013943	0.136525	0.038158	0.002355	0.001601	0.097051	0.000405	0.009051	0.004806	0.001377	0.013770
20-Jun-2028	2.349134	8.686620	13.206900	2.245310	30.936677	1.086620	0.013640	0.133487	0.037953	0.002301	0.001589	0.096006	0.000395	0.008929	0.004713	0.001353	0.013527
21-Jun-2028	2.314818	8.530440	12.935800	2.216530	30.428179	1.060460	0.013351	0.130572	0.037808	0.002253	0.001581	0.095320	0.000387	0.008827	0.004624	0.001329	0.013292
22-Jun-2028	2.323524	8.388370	12.690400	2.188960	29.959897	1.036960	0.013089	0.127930	0.037633	0.002210	0.001570	0.094486	0.000379	0.008723	0.004543	0.001308	0.013076
23-Jun-2028	2.394962	8.229790	12.411500	2.155450	29.425929	1.009770	0.012794	0.124957	0.037602	0.002160	0.001561	0.093555	0.000369	0.008598	0.004452	0.001284	0.012841
24-Jun-2028	2.584085	8.094040	12.172500	2.132460	28.992288	0.986497	0.012543	0.122416	0.037606	0.002118	0.001553	0.092926	0.000362	0.008513	0.004374	0.001265	0.012647
25-Jun-2028	2.828005	7.974730	11.962900	2.104310	28.578449	0.966139	0.012322	0.120187	0.037419	0.002082	0.001545	0.092065	0.000355	0.008403	0.004306	0.001246	0.012463
26-Jun-2028	3.186031	7.850840	11.744400	2.080200	28.169811	0.945026	0.012092	0.117868	0.037188	0.002047	0.001538	0.091340	0.000348	0.008314	0.004235	0.001228	0.012278
27-Jun-2028	3.490047	7.735780	11.543900	2.057600	27.789439	0.925599	0.011879	0.115730	0.036918	0.002010	0.001529	0.090829	0.000341	0.008235	0.004169	0.001210	0.012102
28-Jun-2028	3.930051	7.597850	11.303900	2.028660	27.325853	0.902683	0.011626	0.113167	0.036651	0.001971	0.001515	0.089997	0.000333	0.008125	0.004091	0.001189	0.011888
29-Jun-2028	4.254602	7.430510	11.008300	1.998160	26.782406	0.874024	0.011330	0.110045	0.036427	0.001927	0.001507	0.089425	0.000324	0.008019	0.003996	0.001164	0.011640
30-Jun-2028	4.645244	7.267380	10.717600	1.965590	26.240947	0.845175	0.011022	0.106991	0.036157	0.001876	0.001494	0.088665	0.000314	0.007904	0.003901	0.001140	0.011402
1-Jul-2028	5.337082	5.972450	8.474300	1.702710	21.924967	0.630420	0.008641	0.083450	0.033531	0.001485	0.001389	0.080915	0.000241	0.006915	0.003166	0.000946	0.009455
2-Jul-2028	6.205538	6.157780	8.813280	1.725160	22.480186	0.666517	0.009004	0.087027	0.033596	0.001562	0.001384	0.081945	0.000253	0.007059	0.003283	0.000971	0.009714
3-Jul-2028	7.248300	6.191160	8.866200	1.727510	22.573213	0.673158	0.009084	0.087805	0.033579	0.001593	0.001382	0.082992	0.000255	0.007101	0.003308	0.000975	0.009749
4-Jul-2028	8.553494	6.293150	9.052260	1.741680	22.886234	0.692424	0.009276	0.089732	0.033650	0.001631	0.001382	0.084938	0.000261	0.007178	0.003371	0.000990	0.009898
5-Jul-2028	9.867266	6.144020	8.778320	1.718950	22.420254	0.665344	0.009009	0.087063	0.033357	0.001595	0.001377	0.085011	0.000252	0.007066	0.003281	0.000967	0.009665
6-Jul-2028	10.619811	6.167200	8.807950	1.721630	22.489171	0.669087	0.009063	0.087602	0.033403	0.001624	0.001378	0.084129	0.000253	0.007106	0.003298	0.000969	0.009689
7-Jul-2028	11.356738	6.317820	9.088170	1.744560	22.959695	0.697021	0.009333	0.090307	0.033563	0.001661	0.001380	0.084112	0.000262	0.007208	0.003389	0.000992	0.009920
8-Jul-2028	11.877113	6.621680	9.647190	1.793350	23.919350	0.752799	0.009883	0.095820	0.033866	0.001751	0.001387	0.084775	0.000281	0.007418	0.003570	0.001038	0.010380
9-Jul-2028	11.951200	6.503130	9.431870	1.775030	23.547889	0.731193	0.009666	0.093644	0.033685	0.001714	0.001384	0.084372	0.000274	0.007328	0.003498	0.001020	0.010200
10-Jul-2028	12.631691	6.484770	9.398550	1.774200	23.498626	0.727642	0.009629	0.093277	0.033589	0.001708	0.001384	0.084331	0.000273	0.007307	0.003485	0.001017	0.010171
11-Jul-2028	12.597470	6.520080	9.463000	1.780890	23.614345	0.733893	0.009691	0.093889	0.033551	0.001720	0.001385	0.084473	0.000275	0.007325	0.003505	0.001022	0.010222
12-Jul-2028	12.261951	6.378970	9.201060	1.760210	23.176833	0.707566	0.009434	0.091306	0.033345	0.001681	0.001383	0.084306	0.000266	0.007223	0.003419	0.001000	0.010004
13-Jul-2028	12.023294	6.481450	9.388490	1.777150	23.502484	0.726194	0.009618	0.093151	0.033437	0.001712	0.001386	0.084600	0.000272	0.007294	0.003480	0.001016	0.010158
14-Jul-2028	11.944147	6.519160	9.456820	1.784070	23.625143	0.732916	0.009686	0.093821	0.033448	0.001724	0.001387	0.084757	0.000275	0.007318	0.003501	0.001021	0.010214
15-Jul-2028	11.586977	6.566500	9.543410	1.792450	23.777860	0.741447	0.009770	0.094662	0.033467	0.001738	0.001389	0.084900	0.000278	0.007348	0.003529	0.001028	0.010285

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16-Jul-2028	10.889509	6.584080	9.575710	1.796370	23.837899	0.744522	0.009800	0.094958	0.033439	0.001743	0.001389	0.084960	0.000279	0.007355	0.003538	0.001031	0.010310
17-Jul-2028	10.926226	6.695660	9.779020	1.814480	24.191092	0.764846	0.010003	0.096988	0.033551	0.001779	0.001392	0.085343	0.000285	0.007435	0.003605	0.001048	0.010478
18-Jul-2028	12.160189	6.828050	10.021900	1.836070	24.610577	0.789054	0.010242	0.099390	0.033676	0.001818	0.001395	0.085697	0.000294	0.007526	0.003683	0.001068	0.010677
19-Jul-2028	12.417351	7.354850	10.982900	1.917870	26.262849	0.885298	0.011201	0.108978	0.034377	0.001979	0.001406	0.087256	0.000326	0.007915	0.004002	0.001147	0.011473
20-Jul-2028	12.838157	6.973310	10.286500	1.860580	25.074224	0.815255	0.010503	0.101989	0.033801	0.001863	0.001399	0.086154	0.000302	0.007626	0.003769	0.001090	0.010895
21-Jul-2028	12.527619	7.014820	10.362700	1.868320	25.209747	0.822735	0.010577	0.102728	0.033802	0.001875	0.001400	0.086286	0.000305	0.007650	0.003793	0.001096	0.010957
22-Jul-2028	13.381717	7.165640	10.637200	1.891660	25.682459	0.850211	0.010851	0.105472	0.034018	0.001921	0.001404	0.086745	0.000314	0.007764	0.003884	0.001118	0.011185
23-Jul-2028	13.655687	7.179530	10.664800	1.896430	25.736785	0.852678	0.010872	0.105675	0.033923	0.001925	0.001404	0.086757	0.000315	0.007758	0.003889	0.001120	0.011203
24-Jul-2028	14.366366	6.983110	10.298400	1.870770	25.140657	0.815742	0.010515	0.102078	0.033611	0.001877	0.001402	0.086842	0.000303	0.007616	0.003768	0.001089	0.010895
25-Jul-2028	13.852770	7.156580	10.616500	1.895100	25.674002	0.847724	0.010830	0.105232	0.033797	0.001926	0.001405	0.087098	0.000313	0.007741	0.003874	0.001116	0.011160
26-Jul-2028	13.340087	7.333630	10.942800	1.923660	26.233706	0.880249	0.011150	0.108442	0.033967	0.001977	0.001409	0.087480	0.000324	0.007862	0.003979	0.001143	0.011429
27-Jul-2028	13.013413	7.349470	10.971700	1.926440	26.284707	0.883057	0.011177	0.108714	0.033971	0.001982	0.001410	0.087514	0.000325	0.007872	0.003989	0.001145	0.011453
28-Jul-2028	12.910219	7.380220	11.027100	1.931750	26.383356	0.888526	0.011232	0.109261	0.033999	0.001991	0.001411	0.087638	0.000327	0.007894	0.004007	0.001150	0.011498
29-Jul-2028	12.642364	7.521420	11.285700	1.954760	26.830687	0.914303	0.011487	0.111806	0.034129	0.002034	0.001414	0.088039	0.000336	0.007992	0.004091	0.001171	0.011711
30-Jul-2028	12.285483	7.351180	10.975300	1.929630	26.302113	0.882971	0.011173	0.108657	0.033838	0.001982	0.001411	0.087516	0.000325	0.007860	0.003986	0.001145	0.011452
31-Jul-2028	12.966198	7.333520	10.943700	1.928220	26.252209	0.879595	0.011137	0.108295	0.033749	0.001976	0.001411	0.087447	0.000324	0.007840	0.003974	0.001142	0.011423
1-Aug-2028	13.206462	7.393180	11.053100	1.937780	26.440549	0.890497	0.011244	0.109365	0.033807	0.001993	0.001412	0.087592	0.000328	0.007881	0.004010	0.001151	0.011513
2-Aug-2028	13.772485	7.687450	11.590500	1.982180	27.358180	0.944479	0.011782	0.114746	0.034244	0.002083	0.001418	0.088418	0.000346	0.008103	0.004189	0.001196	0.011959
3-Aug-2028	13.876743	7.833770	11.863300	2.008660	27.832586	0.971043	0.012030	0.117215	0.034262	0.002123	0.001421	0.088645	0.000355	0.008186	0.004272	0.001218	0.012181
4-Aug-2028	14.125287	7.782970	11.771600	2.001920	27.677983	0.961625	0.011932	0.116217	0.034185	0.002108	0.001421	0.088480	0.000352	0.008142	0.004240	0.001210	0.012103
5-Aug-2028	14.358347	7.774490	11.754500	1.999710	27.647707	0.960048	0.011919	0.116096	0.034156	0.002105	0.001420	0.088486	0.000351	0.008142	0.004236	0.001209	0.012090
6-Aug-2028	15.014313	8.058670	12.276700	2.045060	28.544056	1.012030	0.012427	0.121153	0.034453	0.002190	0.001426	0.089181	0.000369	0.008340	0.004406	0.001252	0.012520
7-Aug-2028	15.684013	7.561000	11.367000	1.971730	26.999401	0.920318	0.011507	0.111924	0.033606	0.002040	0.001417	0.088038	0.000338	0.007956	0.004101	0.001176	0.011757
8-Aug-2028	15.812162	7.774250	11.755500	2.006110	27.673463	0.959030	0.011890	0.115740	0.033848	0.002107	0.001422	0.088565	0.000351	0.008109	0.004229	0.001208	0.012078
9-Aug-2028	16.070794	7.749350	11.719900	2.007930	27.618783	0.954293	0.011820	0.115021	0.033691	0.002094	0.001422	0.088292	0.000350	0.008064	0.004207	0.001204	0.012042
10-Aug-2028	16.354421	8.052720	12.268200	2.050930	28.553372	1.009930	0.012384	0.120664	0.034129	0.002188	0.001428	0.089189	0.000369	0.008300	0.004395	0.001250	0.012500
11-Aug-2028	16.589587	7.885120	11.962800	2.026650	28.034889	0.979018	0.012072	0.117528	0.033828	0.002137	0.001425	0.088697	0.000358	0.008168	0.004291	0.001225	0.012246
12-Aug-2028	16.795785	7.957820	12.097200	2.039450	28.269132	0.992151	0.012195	0.118751	0.033872	0.002158	0.001427	0.088848	0.000363	0.008212	0.004333	0.001235	0.012354
13-Aug-2028	16.992885	8.204870	12.552000	2.078510	29.046865	1.037470	0.012637	0.123161	0.034099	0.002230	0.001431	0.089398	0.000378	0.008384	0.004481	0.001273	0.012728
14-Aug-2028	16.420523	7.966970	12.117800	2.043330	28.307957	0.993681	0.012197	0.118750	0.033694	0.002158	0.001427	0.088727	0.000364	0.008200	0.004336	0.001237	0.012365
15-Aug-2028	16.121951	8.066060	12.300000	2.059260	28.620985	1.011790	0.012373	0.120507	0.033782	0.002187	0.001429	0.088957	0.000370	0.008268	0.004395	0.001251	0.012515
16-Aug-2028	15.815272	8.158800	12.477300	2.077940	28.929481	1.028620	0.012518	0.121925	0.033669	0.002210	0.001431	0.088949	0.000376	0.008305	0.004445	0.001266	0.012656
17-Aug-2028	15.729217	8.250380	12.645300	2.093050	29.220379	1.045240	0.012679	0.123526	0.033738	0.002238	0.001433	0.089186	0.000381	0.008367	0.004499	0.001279	0.012793
18-Aug-2028	15.556064	8.076930	12.322500	2.064820	28.671023	1.013250	0.012371	0.120458	0.033577	0.002189	0.001430	0.088942	0.000370	0.008254	0.004397	0.001253	0.012526
19-Aug-2028	14.856615	8.138040	12.435900	2.075900	28.869242	1.024300	0.012473	0.121466	0.033576	0.002208	0.001431	0.089103	0.000374	0.008289	0.004431	0.001262	0.012618
20-Aug-2028	14.553606	8.183800	12.518900	2.086400	29.026744	1.032040	0.012538	0.122089	0.033483	0.002225	0.001433	0.089382	0.000377	0.008307	0.004456	0.001268	0.012681
21-Aug-2028	13.589602	8.135690	12.429100	2.078510	28.874122	1.023140	0.012453	0.121234	0.033419	0.002212	0.001432	0.089320	0.000374	0.008276	0.004427	0.001261	0.012606
22-Aug-2028	12.533234	7.982350	12.149500	2.056350	28.399977	0.994823	0.012166	0.118361	0.033120	0.002165	0.001429	0.088871	0.000365	0.008155	0.004333	0.001237	0.012371
23-Aug-2028	11.196149	8.056550	12.285200	2.068930	28.637059	1.008200	0.012294	0.119634	0.033166	0.002188	0.001431	0.089099	0.000369	0.008204	0.004376	0.001248	0.012481
24-Aug-2028	10.763085	8.165690	12.484800	2.086490	28.981894	1.028050	0.012489	0.121572	0.033288	0.002221	0.001434	0.089427	0.000376	0.008282	0.004442	0.001265	0.012646
25-Aug-2028	10.579117	8.184410	12.530000	2.095300	29.064917	1.031340	0.012491	0.121552	0.033117	0.002221	0.001434	0.089274	0.000377	0.008259	0.004445	0.001268	0.012676
26-Aug-2028	10.408149	8.241000	12.624800	2.100870	29.229160	1.041510	0.012610	0.122760	0.033250	0.002244	0.001436	0.089683	0.000381	0.008321	0.004484	0.001276	0.012758
27-Aug-2028	10.034130	8.454800	13.016400	2.134790	29.902701	1.080530	0.012992	0.126574	0.033488	0.002308	0.001440	0.090180	0.000394	0.008473	0.004612	0.001308	0.013081
28-Aug-2028	9.679133	8.215700	12.579400	2.099950	29.162197	1.036380	0.012546	0.122095	0.033057	0.002236	0.001436	0.089560	0.000379	0.008286	0.004465	0.001271	0.012713
29-Aug-2028	10.051254	8.497100	13.092100	2.144520	30.048392	1.087540	0.013049	0.127110	0.033376	0.002325	0.001442	0.090494	0.000396	0.008490	0.004634	0.001313	0.013134
30-Aug-2028	10.309245	8.394060	12.900400	2.130900	29.735014	1.068000	0.012849	0.125090	0.033148	0.002300	0.001440	0.090502	0.000390	0.008409	0.004570	0.001297	0.012972
31-Aug-2028	9.918571	8.324120	12.777100	2.120650	29.518164	1.055430	0.012720	0.123807	0.033010	0.002272	0.001439	0.090026	0.000386	0.008348	0.004526	0.001287	0.012871
1-Sep-2028	8.885021	8.303350	12.741500	2.118010	29.455430	1.051700	0.012680	0.123400	0.032925	0.002263	0.001439	0.089807	0.000384	0.008327	0.004513	0.001284	0.012839
2-Sep-2028	8.020460	8.376940	12.877400	2.129020	29.684524	1.065460	0.012814	0.124749	0.032997	0.002286	0.001439	0.090001	0.000389	0.008379	0.004558	0.001295	0.012950
3-Sep-2028	7.556785	8.417160	12.955300	2.135170	29.810279	1.073370	0.012889	0.125501	0.032992	0.002297	0.001439	0.089956	0.000392	0.008400	0.004581	0.001301	0.013012
4-Sep-2028	7.718646	8.472150	13.055300	2.143610	29.982345	1.083500	0.012986	0.126466	0.033023	0.002318	0.001439	0.090241	0.000395	0.008440	0.004615	0.001309	0.013090
5-Sep-2028	7.545304	8.459710	13.034300	2.141640	29.943169	1.081430	0.012964	0.126252	0.032984	0.002313	0.001439	0.090130	0.000394	0.008428	0.004607	0.001307	0.013072

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Sep-2028	7.581375	8.700190	13.474200	2.178290	30.694573	1.125650	0.013401	0.130622	0.033290	0.002388	0.001443	0.090847	0.000409	0.008605	0.004753	0.001343	0.013434
7-Sep-2028	6.791737	8.628270	13.346100	2.167230	30.469443	1.112890	0.013270	0.129317	0.033132	0.002365	0.001440	0.090538	0.000405	0.008545	0.004709	0.001332	0.013325
8-Sep-2028	5.967767	8.541800	13.188400	2.154230	30.199994	1.097090	0.013111	0.127722	0.032972	0.002341	0.001438	0.090337	0.000400	0.008479	0.004657	0.001319	0.013192
9-Sep-2028	5.692379	8.578090	13.258100	2.160320	30.315688	1.104130	0.013176	0.128380	0.032953	0.002352	0.001438	0.090397	0.000402	0.008498	0.004678	0.001325	0.013246
10-Sep-2028	5.819497	8.963480	13.960300	2.218560	31.517840	1.174660	0.013879	0.135410	0.033515	0.002471	0.001446	0.091533	0.000425	0.008789	0.004912	0.001383	0.013828
11-Sep-2028	5.679704	8.692340	13.473300	2.177410	30.671347	1.125960	0.013384	0.130475	0.033005	0.002387	0.001438	0.090534	0.000409	0.008570	0.004747	0.001342	0.013418
12-Sep-2028	4.829693	8.844800	13.751400	2.200090	31.145436	1.154020	0.013663	0.133253	0.033207	0.002435	0.001440	0.091010	0.000419	0.008685	0.004840	0.001365	0.013646
13-Sep-2028	4.839993	8.818120	13.705000	2.195990	31.061932	1.149450	0.013613	0.132757	0.033116	0.002428	0.001439	0.090899	0.000417	0.008660	0.004823	0.001360	0.013604
14-Sep-2028	5.364771	8.895310	13.846000	2.208200	31.304957	1.163780	0.013750	0.134122	0.033141	0.002457	0.001439	0.091307	0.000422	0.008713	0.004870	0.001372	0.013715
15-Sep-2028	5.331219	8.973220	13.991500	2.219560	31.546278	1.178440	0.013894	0.135573	0.033238	0.002478	0.001440	0.091348	0.000427	0.008768	0.004917	0.001384	0.013835
16-Sep-2028	4.862242	9.201330	14.413600	2.254030	32.257817	1.220970	0.014312	0.139759	0.033492	0.002546	0.001443	0.091815	0.000441	0.008929	0.005055	0.001418	0.014181
17-Sep-2028	4.168563	9.126030	14.289100	2.242950	32.024165	1.208720	0.014175	0.138417	0.033297	0.002520	0.001440	0.091455	0.000437	0.008846	0.005008	0.001407	0.014068
18-Sep-2028	3.644331	8.996240	14.044500	2.223050	31.618131	1.184000	0.013936	0.136007	0.033111	0.002483	0.001437	0.091107	0.000429	0.008764	0.004930	0.001387	0.013869
19-Sep-2028	3.646264	9.018210	14.095800	2.226200	31.685962	1.189450	0.013977	0.136441	0.033063	0.002487	0.001437	0.091047	0.000430	0.008759	0.004942	0.001390	0.013903
20-Sep-2028	3.960122	9.228700	14.474800	2.257600	32.340861	1.227500	0.014361	0.140267	0.033339	0.002553	0.001439	0.091556	0.000443	0.008929	0.005071	0.001422	0.014220
21-Sep-2028	4.454515	9.519060	14.999800	2.301940	33.248482	1.280070	0.014890	0.145547	0.033824	0.002643	0.001447	0.092575	0.000461	0.009155	0.005248	0.001466	0.014658
22-Sep-2028	4.448245	9.371490	14.734800	2.279230	32.786480	1.253640	0.014622	0.142865	0.033541	0.002598	0.001442	0.092024	0.000452	0.009037	0.005158	0.001443	0.014434
23-Sep-2028	4.455821	9.437610	14.859400	2.288950	32.991608	1.266370	0.014743	0.144082	0.033575	0.002619	0.001442	0.092112	0.000456	0.009080	0.005198	0.001453	0.014534
24-Sep-2028	4.285736	9.363820	14.726900	2.277630	32.760739	1.253140	0.014608	0.142728	0.033418	0.002597	0.001439	0.091880	0.000452	0.009020	0.005153	0.001442	0.014420
25-Sep-2028	4.235667	9.316350	14.641400	2.270390	32.612392	1.244580	0.014521	0.141862	0.033332	0.002582	0.001438	0.091710	0.000449	0.008982	0.005124	0.001435	0.014348
26-Sep-2028	4.327034	9.395300	14.785400	2.282430	32.859111	1.259010	0.014664	0.143289	0.033432	0.002606	0.001440	0.091909	0.000454	0.009041	0.005172	0.001447	0.014467
27-Sep-2028	4.242372	9.790780	15.509500	2.342500	34.093993	1.331720	0.015386	0.150508	0.033966	0.002725	0.001447	0.092953	0.000478	0.009333	0.005412	0.001506	0.015065
28-Sep-2028	4.047382	9.807020	15.546200	2.344650	34.143398	1.335630	0.015416	0.150829	0.033894	0.002729	0.001445	0.092779	0.000479	0.009333	0.005422	0.001509	0.015090
29-Sep-2028	3.843468	9.796580	15.530900	2.342730	34.109422	1.334260	0.015398	0.150648	0.033820	0.002726	0.001443	0.092644	0.000479	0.009318	0.005415	0.001507	0.015073
30-Sep-2028	3.388407	9.820340	15.575400	2.346150	34.182835	1.338820	0.015441	0.151080	0.033831	0.002734	0.001443	0.092704	0.000480	0.009334	0.005430	0.001511	0.015108
1-Oct-2028	3.228587	9.810820	15.561400	2.344400	34.151857	1.337550	0.015425	0.150917	0.033768	0.002731	0.001442	0.092583	0.000480	0.009321	0.005424	0.001509	0.015093
2-Oct-2028	3.025070	9.459160	14.914300	2.291240	33.054849	1.272420	0.014783	0.144493	0.033350	0.002624	0.001436	0.091723	0.000458	0.009068	0.005210	0.001456	0.014562
3-Oct-2028	2.684416	9.304240	14.632700	2.267140	32.568770	1.244370	0.014500	0.141652	0.033133	0.002579	0.001434	0.091317	0.000449	0.008948	0.005117	0.001432	0.014323
4-Oct-2028	2.543992	9.261170	14.553700	2.260440	32.433633	1.236470	0.014422	0.140873	0.033046	0.002566	0.001432	0.091212	0.000446	0.008918	0.005091	0.001426	0.014258
5-Oct-2028	2.407751	9.230190	14.497300	2.255370	32.335398	1.230910	0.014367	0.140321	0.033001	0.002558	0.001431	0.091157	0.000444	0.008895	0.005072	0.001421	0.014211
6-Oct-2028	2.219594	9.217620	14.474200	2.253380	32.295816	1.228610	0.014344	0.140100	0.032983	0.002554	0.001430	0.091112	0.000443	0.008886	0.005065	0.001419	0.014192
7-Oct-2028	2.218316	9.208230	14.456800	2.251960	32.266522	1.226840	0.014327	0.139934	0.032978	0.002551	0.001430	0.091114	0.000443	0.008880	0.005059	0.001418	0.014179
8-Oct-2028	2.192386	9.195390	14.433800	2.249730	32.225277	1.224590	0.014305	0.139713	0.032963	0.002547	0.001430	0.091014	0.000442	0.008871	0.005051	0.001416	0.014160
9-Oct-2028	2.100469	9.165720	14.379600	2.244890	32.131260	1.219230	0.014252	0.139189	0.032947	0.002538	0.001429	0.090957	0.000440	0.008850	0.005034	0.001412	0.014115
10-Oct-2028	2.003994	9.143400	14.340300	2.240780	32.058602	1.215470	0.014214	0.138809	0.032891	0.002531	0.001428	0.090900	0.000439	0.008833	0.005021	0.001408	0.014081
11-Oct-2028	1.676033	9.128390	14.313400	2.238230	32.010621	1.212830	0.014188	0.138549	0.032864	0.002527	0.001427	0.090834	0.000438	0.008822	0.005012	0.001406	0.014059
12-Oct-2028	1.218004	9.101090	14.263800	2.233770	31.924087	1.207920	0.014139	0.138070	0.032839	0.002518	0.001426	0.090770	0.000436	0.008802	0.004996	0.001402	0.014018
13-Oct-2028	1.103230	9.083780	14.231400	2.231250	31.870486	1.204640	0.014108	0.137755	0.032823	0.002513	0.001426	0.090689	0.000435	0.008790	0.004985	0.001399	0.013992
14-Oct-2028	0.995785	9.082540	14.229400	2.230960	31.866196	1.204480	0.014106	0.137736	0.032816	0.002513	0.001426	0.090669	0.000435	0.008789	0.004984	0.001399	0.013990
15-Oct-2028	0.869457	9.056120	14.181400	2.226540	31.782023	1.199790	0.014059	0.137272	0.032786	0.002506	0.001425	0.090652	0.000434	0.008770	0.004969	0.001395	0.013950
16-Oct-2028	0.874151	9.062980	14.190200	2.228890	31.808830	1.200300	0.014068	0.137358	0.032830	0.002507	0.001427	0.090759	0.000434	0.008779	0.004972	0.001396	0.013961
17-Oct-2028	0.870201	9.148540	14.323700	2.250090	32.109775	1.211570	0.014200	0.138648	0.033135	0.002531	0.001441	0.091649	0.000438	0.008862	0.005019	0.001409	0.014092
18-Oct-2028	0.870475	9.202300	14.407600	2.263640	32.299813	1.218820	0.014283	0.139461	0.033334	0.002547	0.001449	0.092263	0.000441	0.008914	0.005048	0.001418	0.014175
19-Oct-2028	0.869190	9.279310	14.527800	2.282460	32.569607	1.228780	0.014403	0.140623	0.033613	0.002568	0.001461	0.092930	0.000444	0.008989	0.005091	0.001429	0.014294
20-Oct-2028	0.870383	9.300830	14.562000	2.287600	32.644509	1.231720	0.014437	0.140954	0.033687	0.002574	0.001465	0.093132	0.000445	0.009009	0.005103	0.001433	0.014327
21-Oct-2028	0.871550	9.270050	14.513400	2.280190	32.537137	1.227540	0.014388	0.140484	0.033586	0.002565	0.001462	0.093288	0.000444	0.008980	0.005086	0.001428	0.014280
22-Oct-2028	0.871991	9.320400	14.591100	2.292970	32.715489	1.233980	0.014466	0.141238	0.033783	0.002578	0.001469	0.093672	0.000446	0.009030	0.005113	0.001436	0.014358
23-Oct-2028	0.872483	9.360370	14.654300	2.302620	32.855033	1.239370	0.014528	0.141849	0.033923	0.002589	0.001475	0.093898	0.000448	0.009068	0.005135	0.001442	0.014420
24-Oct-2028	0.873230	9.401900	14.719300	2.312820	33.000737	1.244880	0.014593	0.142479	0.034073	0.002601	0.001481	0.094146	0.000450	0.009108	0.005158	0.001448	0.014484
25-Oct-2028	0.873827	9.441230	14.780800	2.322520	33.138889	1.250080	0.014654	0.143074	0.034215	0.002612	0.001487	0.094543	0.000452	0.009147	0.005179	0.001454	0.014544
26-Oct-2028	0.874700	9.455030	14.802500	2.325880	33.187184	1.251920	0.014675	0.143284	0.034265	0.002615	0.001489	0.094677	0.000453	0.009160	0.005187	0.001457	0.014565
27-Oct-2028	0.874910	9.487950	14.853800	2.334060	33.303070	1.256240	0.014726	0.143780	0.034386	0.002625	0.001495	0.095016	0.000454	0.009192	0.005205	0.001462	0.014616

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Oct-2028	0.875012	9.537810	14.931800	2.346340	33.478140	1.262830	0.014803	0.144535	0.034566	0.002638	0.001503	0.095518	0.000456	0.009240	0.005232	0.001469	0.014693
29-Oct-2028	0.873853	9.564760	14.973900	2.353000	33.572860	1.266390	0.014845	0.144943	0.034664	0.002646	0.001507	0.095792	0.000458	0.009266	0.005247	0.001473	0.014734
30-Oct-2028	0.873084	9.610260	15.044600	2.364370	33.733295	1.272310	0.014915	0.145626	0.034832	0.002659	0.001514	0.096269	0.000460	0.009311	0.005272	0.001480	0.014804
31-Oct-2028	0.872743	9.632320	15.079000	2.369830	33.810863	1.275210	0.014949	0.145959	0.034912	0.002665	0.001518	0.096495	0.000461	0.009333	0.005284	0.001484	0.014838
1-Nov-2028	0.872684	9.661770	15.125400	2.376970	33.913802	1.279170	0.014995	0.146408	0.035016	0.002673	0.001522	0.096781	0.000462	0.009361	0.005300	0.001488	0.014884
2-Nov-2028	0.873449	9.710260	15.201200	2.388940	34.084174	1.285570	0.015070	0.147142	0.035193	0.002686	0.001530	0.097271	0.000465	0.009408	0.005327	0.001496	0.014958
3-Nov-2028	0.873860	9.674380	15.144700	2.380220	33.958673	1.280760	0.015014	0.146595	0.035065	0.002676	0.001525	0.096924	0.000463	0.009373	0.005307	0.001490	0.014903
4-Nov-2028	0.871964	9.734380	15.238300	2.395090	34.169727	1.288650	0.015107	0.147500	0.035285	0.002693	0.001534	0.097536	0.000466	0.009432	0.005340	0.001500	0.014995
5-Nov-2028	0.870007	9.793100	15.329900	2.409610	34.376145	1.296370	0.015198	0.148388	0.035499	0.002709	0.001544	0.098133	0.000469	0.009489	0.005372	0.001509	0.015086
6-Nov-2028	0.869156	9.849090	15.417400	2.423460	34.572986	1.303750	0.015285	0.149234	0.035704	0.002725	0.001552	0.098702	0.000471	0.009543	0.005403	0.001517	0.015172
7-Nov-2028	0.870067	9.898270	15.494100	2.435630	34.745905	1.310210	0.015361	0.149977	0.035884	0.002739	0.001560	0.099203	0.000474	0.009591	0.005430	0.001525	0.015248
8-Nov-2028	0.870063	9.936840	15.554200	2.445200	34.881623	1.315270	0.015421	0.150558	0.036026	0.002749	0.001567	0.099599	0.000475	0.009629	0.005451	0.001531	0.015307
9-Nov-2028	0.869160	9.985290	15.629900	2.457180	35.051936	1.321660	0.015496	0.151291	0.036202	0.002763	0.001574	0.100091	0.000478	0.009676	0.005477	0.001538	0.015382
10-Nov-2028	0.868688	10.027500	15.695700	2.467650	35.200450	1.327200	0.015561	0.151927	0.036357	0.002774	0.001581	0.100525	0.000480	0.009717	0.005500	0.001545	0.015447
11-Nov-2028	0.868655	10.059800	15.746000	2.475630	35.313965	1.331440	0.015611	0.152414	0.036474	0.002783	0.001586	0.100855	0.000481	0.009749	0.005518	0.001550	0.015496
12-Nov-2028	0.868221	10.094000	15.799600	2.484090	35.434201	1.335970	0.015664	0.152933	0.036599	0.002793	0.001592	0.101203	0.000483	0.009782	0.005537	0.001555	0.015549
13-Nov-2028	0.866417	10.153700	15.892800	2.498820	35.643930	1.343840	0.015756	0.153835	0.036816	0.002810	0.001601	0.101808	0.000486	0.009840	0.005570	0.001564	0.015641
14-Nov-2028	0.864616	10.202900	15.969400	2.511030	35.817063	1.350290	0.015832	0.154576	0.036996	0.002823	0.001609	0.102316	0.000488	0.009888	0.005597	0.001572	0.015717
15-Nov-2028	0.862633	10.246100	16.036800	2.521730	35.968996	1.355980	0.015899	0.155229	0.037152	0.002835	0.001616	0.102759	0.000490	0.009930	0.005620	0.001578	0.015783
16-Nov-2028	0.859376	10.296800	16.116100	2.534230	36.147069	1.362670	0.015978	0.155995	0.037336	0.002850	0.001624	0.103427	0.000493	0.009979	0.005648	0.001586	0.015861
17-Nov-2028	0.862240	10.349400	16.198300	2.547220	36.331904	1.369610	0.016059	0.156790	0.037526	0.002864	0.001632	0.103808	0.000495	0.010030	0.005677	0.001594	0.015942
18-Nov-2028	0.861105	10.380000	16.246000	2.554830	36.439650	1.373630	0.016107	0.157252	0.037638	0.002873	0.001637	0.104125	0.000497	0.010060	0.005694	0.001599	0.015989
19-Nov-2028	0.859245	10.414600	16.300000	2.563380	36.561255	1.378190	0.016160	0.157775	0.037763	0.002882	0.001643	0.104478	0.000498	0.010094	0.005713	0.001604	0.016042
20-Nov-2028	0.858573	10.445600	16.348600	2.570980	36.669959	1.382300	0.016208	0.158245	0.037875	0.002891	0.001647	0.104786	0.000500	0.010123	0.005730	0.001609	0.016090
21-Nov-2028	0.860129	10.481200	16.403900	2.579850	36.795379	1.386950	0.016263	0.158780	0.038005	0.002901	0.001653	0.105161	0.000501	0.010158	0.005749	0.001614	0.016145
22-Nov-2028	0.859361	10.529900	16.479900	2.591940	36.966769	1.393360	0.016338	0.159515	0.038182	0.002915	0.001661	0.105664	0.000504	0.010206	0.005776	0.001622	0.016220
23-Nov-2028	0.856832	10.584100	16.564500	2.605320	37.157205	1.400500	0.016422	0.160333	0.038378	0.002930	0.001670	0.106214	0.000506	0.010258	0.005805	0.001630	0.016303
24-Nov-2028	0.855796	10.555600	16.519500	2.598440	37.057709	1.396660	0.016378	0.159898	0.038277	0.002922	0.001665	0.105944	0.000505	0.010231	0.005790	0.001626	0.016259
25-Nov-2028	0.856086	10.596000	16.582200	2.608570	37.200303	1.401920	0.016440	0.160504	0.038426	0.002933	0.001672	0.106373	0.000507	0.010271	0.005812	0.001632	0.016321
26-Nov-2028	0.856139	10.638600	16.648600	2.619140	37.350203	1.407500	0.016506	0.161146	0.038582	0.002945	0.001679	0.106812	0.000509	0.010312	0.005835	0.001639	0.016387
27-Nov-2028	0.855438	10.685600	16.721800	2.630780	37.515495	1.413680	0.016578	0.161855	0.038753	0.002958	0.001686	0.107294	0.000511	0.010358	0.005861	0.001646	0.016459
28-Nov-2028	0.855371	10.732300	16.794700	2.642340	37.679709	1.419820	0.016650	0.162560	0.038923	0.002971	0.001694	0.107773	0.000513	0.010403	0.005886	0.001653	0.016531
29-Nov-2028	0.855690	10.778600	16.866900	2.653850	37.842719	1.425900	0.016722	0.163259	0.039092	0.002984	0.001701	0.108251	0.000516	0.010449	0.005912	0.001660	0.016602
30-Nov-2028	0.855403	10.829500	16.946300	2.666420	38.021579	1.432600	0.016801	0.164027	0.039277	0.002998	0.001709	0.108768	0.000518	0.010498	0.005940	0.001668	0.016680
1-Dec-2028	0.854539	10.862000	16.996900	2.674490	38.135964	1.436860	0.016851	0.164517	0.039396	0.003008	0.001714	0.109104	0.000520	0.010530	0.005957	0.001673	0.016730
2-Dec-2028	0.854230	10.892600	17.044700	2.682100	38.243710	1.440880	0.016898	0.164978	0.039507	0.003016	0.001719	0.109420	0.000521	0.010559	0.005974	0.001678	0.016778
3-Dec-2028	0.854251	10.942300	17.122300	2.694370	38.418339	1.447430	0.016975	0.165730	0.039688	0.003030	0.001727	0.109925	0.000523	0.010608	0.006001	0.001685	0.016854
4-Dec-2028	0.853899	10.995400	17.205300	2.707470	38.604875	1.454440	0.017058	0.166532	0.039881	0.003045	0.001736	0.110462	0.000526	0.010659	0.006031	0.001694	0.016936
5-Dec-2028	0.853560	11.053000	17.295400	2.721700	38.807302	1.462050	0.017147	0.167405	0.040090	0.003061	0.001745	0.111046	0.000529	0.010715	0.006062	0.001702	0.017025
6-Dec-2028	0.853412	11.118500	17.397800	2.737860	39.037402	1.470700	0.017248	0.168396	0.040328	0.003079	0.001755	0.111709	0.000532	0.010779	0.006098	0.001713	0.017125
7-Dec-2028	0.853338	11.187700	17.506000	2.754900	39.280365	1.479840	0.017356	0.169443	0.040578	0.003098	0.001766	0.112406	0.000535	0.010846	0.006136	0.001723	0.017232
8-Dec-2028	0.852676	11.264500	17.626200	2.773770	39.549841	1.490020	0.017475	0.170606	0.040856	0.003119	0.001778	0.113175	0.000539	0.010920	0.006178	0.001735	0.017350
9-Dec-2028	0.852207	11.340900	17.745800	2.792590	39.818113	1.500130	0.017593	0.171764	0.041133	0.003141	0.001790	0.113943	0.000542	0.010994	0.006220	0.001747	0.017468
10-Dec-2028	0.852348	11.398900	17.836500	2.806920	40.021950	1.507790	0.017683	0.172642	0.041344	0.003157	0.001799	0.114530	0.000545	0.011051	0.006252	0.001756	0.017557
11-Dec-2028	0.851968	11.134100	17.421700	2.741830	39.092704	1.472690	0.017272	0.168627	0.040384	0.003084	0.001758	0.111888	0.000532	0.010794	0.006107	0.001715	0.017149
12-Dec-2028	0.851230	11.085300	17.339100	2.731750	38.929341	1.465220	0.017190	0.167819	0.040229	0.003072	0.001752	0.111656	0.000530	0.010752	0.006079	0.001707	0.017072
13-Dec-2028	0.851396	11.056900	17.297200	2.723930	38.826223	1.461890	0.017149	0.167416	0.040114	0.003064	0.001747	0.111268	0.000529	0.010722	0.006064	0.001703	0.017029
14-Dec-2028	0.851299	11.112700	17.384300	2.737750	39.022466	1.469230	0.017235	0.168259	0.040318	0.003079	0.001756	0.111837	0.000531	0.010776	0.006094	0.001711	0.017115
15-Dec-2028	0.850721	11.175900	17.481500	2.753850	39.246577	1.477300	0.017331	0.169198	0.040555	0.003097	0.001767	0.112541	0.000534	0.010839	0.006129	0.001721	0.017212
16-Dec-2028	0.850850	11.184600	17.495800	2.755820	39.276413	1.478570	0.017346	0.169337	0.040584	0.003100	0.001768	0.112605	0.000535	0.010847	0.006133	0.001723	0.017225
17-Dec-2028	0.850766	11.258600	17.610800	2.774240	39.537045	1.488230	0.017460	0.170449	0.040855	0.003120	0.001780	0.113376	0.000538	0.010919	0.006174	0.001734	0.017339
18-Dec-2028	0.850149	11.350000	17.752500	2.797190	39.859778	1.500100	0.017600	0.171820	0.041192	0.003146	0.001795	0.114350	0.000543	0.011009	0.006224	0.001748	0.017480

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19-Dec-2028	0.849944	11.385800	17.809800	2.805550	39.983598	1.505060	0.017657	0.172376	0.041316	0.003155	0.001800	0.114654	0.000544	0.011043	0.006244	0.001753	0.017535
20-Dec-2028	0.849980	11.452400	17.914100	2.821980	40.217556	1.513870	0.017760	0.173385	0.041558	0.003174	0.001810	0.115325	0.000547	0.011107	0.006280	0.001764	0.017638
21-Dec-2028	0.849699	11.548500	18.063300	2.845970	40.556309	1.526390	0.017908	0.174828	0.041910	0.003201	0.001826	0.116334	0.000552	0.011201	0.006333	0.001779	0.017785
22-Dec-2028	0.849415	11.599900	18.144600	2.858360	40.735677	1.533330	0.017989	0.175616	0.042093	0.003215	0.001834	0.116816	0.000555	0.011250	0.006361	0.001786	0.017865
23-Dec-2028	0.849610	11.650800	18.224800	2.870760	40.913837	1.540150	0.018068	0.176393	0.042276	0.003229	0.001841	0.117309	0.000557	0.011299	0.006389	0.001794	0.017943
24-Dec-2028	0.849298	11.744800	18.371000	2.894180	41.244999	1.552450	0.018213	0.177807	0.042620	0.003255	0.001857	0.118289	0.000561	0.011391	0.006441	0.001809	0.018088
25-Dec-2028	0.848879	11.790900	18.443800	2.905330	41.406026	1.558640	0.018285	0.178512	0.042785	0.003268	0.001864	0.118726	0.000564	0.011435	0.006466	0.001816	0.018159
26-Dec-2028	0.849029	11.825300	18.498200	2.913580	41.525897	1.563300	0.018339	0.179039	0.042907	0.003277	0.001869	0.119045	0.000565	0.011468	0.006485	0.001821	0.018212
27-Dec-2028	0.848832	11.908200	18.627300	2.934180	41.817729	1.574170	0.018467	0.180289	0.043210	0.003300	0.001882	0.119903	0.000569	0.011549	0.006530	0.001834	0.018340
28-Dec-2028	0.848388	11.951800	18.695800	2.944810	41.970372	1.579990	0.018535	0.180952	0.043366	0.003312	0.001889	0.120327	0.000571	0.011591	0.006554	0.001841	0.018407
29-Dec-2028	0.848490	11.976400	18.735100	2.950660	42.055889	1.583360	0.018574	0.181333	0.043453	0.003319	0.001892	0.120547	0.000573	0.011614	0.006568	0.001844	0.018445
30-Dec-2028	0.848385	12.048000	18.846900	2.968390	42.307686	1.592790	0.018685	0.182414	0.043713	0.003339	0.001904	0.121280	0.000576	0.011684	0.006607	0.001856	0.018555
31-Dec-2028	0.848000	12.095900	18.921900	2.980170	42.475802	1.599140	0.018759	0.183140	0.043887	0.003352	0.001911	0.121758	0.000578	0.011730	0.006633	0.001863	0.018629
1-Jan-2029	0.848046	12.118100	18.957300	2.985410	42.552814	1.602180	0.018795	0.183484	0.043964	0.003358	0.001915	0.121953	0.000579	0.011751	0.006646	0.001866	0.018663
2-Jan-2029	0.847965	12.191600	19.072100	3.003600	42.811250	1.611870	0.018908	0.184594	0.044232	0.003378	0.001926	0.122703	0.000583	0.011823	0.006686	0.001878	0.018776
3-Jan-2029	0.847697	12.242500	19.151600	3.016130	42.989946	1.618590	0.018987	0.185364	0.044417	0.003392	0.001934	0.123215	0.000585	0.011872	0.006714	0.001885	0.018855
4-Jan-2029	0.847638	12.261200	19.181500	3.020540	43.054800	1.621160	0.019017	0.185654	0.044482	0.003397	0.001937	0.123379	0.000586	0.011890	0.006724	0.001888	0.018884
5-Jan-2029	0.847602	12.327600	19.285200	3.036930	43.288095	1.629920	0.019120	0.186658	0.044723	0.003416	0.001948	0.124051	0.000589	0.011954	0.006761	0.001899	0.018986
6-Jan-2029	0.847490	12.378100	19.364200	3.049390	43.465504	1.636590	0.019198	0.187422	0.044906	0.003430	0.001956	0.124562	0.000592	0.012003	0.006788	0.001906	0.019064
7-Jan-2029	0.847273	12.422200	19.433500	3.060180	43.620055	1.642470	0.019267	0.188093	0.045065	0.003442	0.001962	0.124995	0.000594	0.012046	0.006812	0.001913	0.019132
8-Jan-2029	0.847278	12.475200	19.516400	3.073240	43.806177	1.649480	0.019349	0.188896	0.045258	0.003457	0.001971	0.125529	0.000596	0.012097	0.006842	0.001921	0.019213
9-Jan-2029	0.847115	12.529100	19.600300	3.086620	43.995864	1.656550	0.019432	0.189708	0.045454	0.003472	0.001980	0.126085	0.000599	0.012150	0.006871	0.001930	0.019296
10-Jan-2029	0.846810	12.571700	19.667100	3.097080	44.145310	1.662200	0.019498	0.190354	0.045608	0.003483	0.001986	0.126509	0.000601	0.012191	0.006894	0.001936	0.019362
11-Jan-2029	0.846911	12.608000	19.724200	3.105910	44.272313	1.667040	0.019555	0.190907	0.045739	0.003493	0.001992	0.126861	0.000603	0.012226	0.006914	0.001942	0.019418
12-Jan-2029	0.846716	12.669200	19.819500	3.121140	44.487847	1.675070	0.019649	0.191829	0.045963	0.003511	0.002002	0.127496	0.000606	0.012286	0.006948	0.001951	0.019512
13-Jan-2029	0.846388	12.714800	19.890800	3.132400	44.648079	1.681090	0.019720	0.192519	0.046128	0.003523	0.002009	0.127958	0.000608	0.012330	0.006973	0.001958	0.019582
14-Jan-2029	0.846482	12.742200	19.934300	3.138980	44.743593	1.684810	0.019763	0.192940	0.046225	0.003531	0.002013	0.128211	0.000609	0.012356	0.006988	0.001962	0.019625
15-Jan-2029	0.846290	12.809700	20.039400	3.155750	44.981199	1.693650	0.019867	0.193957	0.046472	0.003549	0.002024	0.128909	0.000612	0.012422	0.007025	0.001973	0.019728
16-Jan-2029	0.846001	12.855300	20.110500	3.167030	45.141514	1.699650	0.019938	0.194645	0.046638	0.003562	0.002031	0.129374	0.000615	0.012466	0.007050	0.001980	0.019799
17-Jan-2029	0.845863	12.893600	20.170600	3.176370	45.275611	1.704750	0.019997	0.195227	0.046776	0.003573	0.002037	0.129749	0.000616	0.012503	0.007071	0.001986	0.019858
18-Jan-2029	0.845742	12.957000	20.269900	3.192000	45.498285	1.713140	0.020096	0.196188	0.047006	0.003590	0.002047	0.130388	0.000620	0.012565	0.007106	0.001996	0.019955
19-Jan-2029	0.845547	13.016500	20.362500	3.206820	45.707885	1.720930	0.020188	0.197085	0.047224	0.003607	0.002057	0.131006	0.000622	0.012623	0.007138	0.002005	0.020047
20-Jan-2029	0.845358	13.049100	20.413600	3.214770	45.822026	1.725270	0.020238	0.197579	0.047341	0.003616	0.002062	0.131325	0.000624	0.012654	0.007156	0.002010	0.020097
21-Jan-2029	0.845229	13.108200	20.506100	3.229330	46.029556	1.733080	0.020330	0.198474	0.047555	0.003632	0.002071	0.131920	0.000627	0.012711	0.007189	0.002019	0.020188
22-Jan-2029	0.845121	13.185500	20.626900	3.248480	46.301434	1.743270	0.020450	0.199643	0.047837	0.003654	0.002083	0.132710	0.000630	0.012787	0.007231	0.002031	0.020307
23-Jan-2029	0.845162	13.201000	20.651400	3.252150	46.355251	1.745380	0.020474	0.199881	0.047891	0.003658	0.002086	0.132849	0.000631	0.012801	0.007239	0.002033	0.020331
24-Jan-2029	0.845113	13.224900	20.689500	3.257850	46.438402	1.748650	0.020512	0.200250	0.047976	0.003664	0.002089	0.133064	0.000632	0.012824	0.007253	0.002037	0.020368
25-Jan-2029	0.845032	13.287500	20.787500	3.273210	46.657966	1.756950	0.020609	0.201199	0.048202	0.003682	0.002099	0.133687	0.000635	0.012884	0.007287	0.002046	0.020464
26-Jan-2029	0.844970	13.351900	20.888400	3.289030	46.883920	1.765490	0.020709	0.202176	0.048435	0.003699	0.002109	0.134330	0.000638	0.012947	0.007322	0.002056	0.020564
27-Jan-2029	0.844892	13.410100	20.979700	3.303320	47.088091	1.773210	0.020800	0.203059	0.048645	0.003716	0.002118	0.134909	0.000641	0.013003	0.007354	0.002065	0.020653
28-Jan-2029	0.844806	13.469500	21.072700	3.317900	47.296454	1.781090	0.020892	0.203959	0.048860	0.003732	0.002128	0.135501	0.000644	0.013061	0.007387	0.002074	0.020745
29-Jan-2029	0.844766	13.531000	21.169000	3.333020	47.512283	1.789240	0.020987	0.204892	0.049083	0.003749	0.002137	0.136115	0.000647	0.013120	0.007421	0.002084	0.020840
30-Jan-2029	0.844744	13.611300	21.294800	3.352770	47.794123	1.799870	0.021112	0.206109	0.049374	0.003771	0.002150	0.136920	0.000651	0.013198	0.007465	0.002096	0.020963
31-Jan-2029	0.844727	13.693900	21.424000	3.373100	48.084094	1.810800	0.021240	0.207360	0.049673	0.003794	0.002163	0.137748	0.000655	0.013278	0.007510	0.002109	0.021090
1-Feb-2029	0.844716	13.775200	21.551300	3.393120	48.369543	1.821570	0.021366	0.208593	0.049968	0.003817	0.002176	0.138564	0.000659	0.013357	0.007555	0.002122	0.021216
2-Feb-2029	0.844705	13.898500	21.745200	3.423160	48.801127	1.838040	0.021558	0.210471	0.050411	0.003850	0.002195	0.139760	0.000665	0.013475	0.007622	0.002141	0.021406
3-Feb-2029	0.844693	14.040900	21.968100	3.458240	49.301160	1.856880	0.021779	0.212628	0.050928	0.003890	0.002217	0.141192	0.000671	0.013614	0.007701	0.002163	0.021625
4-Feb-2029	0.844681	14.187000	22.196600	3.494210	49.814096	1.876190	0.022006	0.214839	0.051458	0.003930	0.002240	0.142661	0.000678	0.013755	0.007781	0.002185	0.021850
5-Feb-2029	0.844671	14.335200	22.428500	3.530710	50.334458	1.895790	0.022236	0.217084	0.051995	0.003971	0.002264	0.144151	0.000686	0.013899	0.007862	0.002208	0.022078
6-Feb-2029	0.844667	14.481900	22.658100	3.566850	50.849593	1.915200	0.022463	0.219306	0.052527	0.004012	0.002287	0.145627	0.000693	0.014041	0.007942	0.002230	0.022304
7-Feb-2029	0.844661	14.624100	22.880600	3.601870	51.348878	1.934010	0.022684	0.221460	0.053043	0.004051	0.002309	0.147057	0.000699	0.014179	0.008020	0.002252	0.022524
8-Feb-2029	0.844648	14.770100	23.108900	3.637820	51.861482	1.953310	0.022910	0.223670	0.053572	0.004092	0.002332	0.148524	0.000706	0.014321	0.008100	0.002275	0.022748

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
9-Feb-2029	0.844628	14.887900	23.293200	3.666820	52.275051	1.968890	0.023093	0.225454	0.053999	0.004124	0.002351	0.149707	0.000712	0.014435	0.008165	0.002293	0.022930
10-Feb-2029	0.844617	15.007700	23.480800	3.696320	52.695673	1.984750	0.023279	0.227269	0.054434	0.004158	0.002370	0.150911	0.000718	0.014551	0.008231	0.002311	0.023114
11-Feb-2029	0.844606	15.124600	23.663800	3.725100	53.106088	2.000220	0.023461	0.229040	0.054858	0.004190	0.002388	0.152085	0.000723	0.014664	0.008295	0.002329	0.023294
12-Feb-2029	0.844590	15.242300	23.847900	3.754080	53.519325	2.015780	0.023643	0.230822	0.055284	0.004223	0.002407	0.153268	0.000729	0.014778	0.008359	0.002348	0.023476
13-Feb-2029	0.844578	15.400400	24.095200	3.793030	54.074496	2.036680	0.023888	0.233215	0.055858	0.004266	0.002432	0.154860	0.000736	0.014932	0.008446	0.002372	0.023719
14-Feb-2029	0.844573	15.606000	24.416900	3.843700	54.796539	2.063870	0.024207	0.236330	0.056604	0.004323	0.002464	0.156929	0.000746	0.015131	0.008559	0.002404	0.024036
15-Feb-2029	0.844570	15.807600	24.732200	3.893330	55.504310	2.090520	0.024520	0.239381	0.057335	0.004379	0.002496	0.158956	0.000756	0.015326	0.008669	0.002435	0.024346
16-Feb-2029	0.844567	16.005700	25.042200	3.942130	56.199924	2.116720	0.024827	0.242381	0.058053	0.004434	0.002528	0.160948	0.000765	0.015518	0.008778	0.002465	0.024651
17-Feb-2029	0.844564	16.183600	25.320600	3.985960	56.824632	2.140260	0.025103	0.245076	0.058699	0.004483	0.002556	0.162738	0.000774	0.015691	0.008876	0.002493	0.024925
18-Feb-2029	0.844560	16.359100	25.595100	4.029170	57.440795	2.163460	0.025375	0.247733	0.059335	0.004532	0.002583	0.164502	0.000782	0.015861	0.008972	0.002520	0.025196
19-Feb-2029	0.844556	16.522200	25.850300	4.069340	58.013476	2.185040	0.025628	0.250204	0.059927	0.004577	0.002609	0.166142	0.000790	0.016019	0.009061	0.002545	0.025447
20-Feb-2029	0.844553	16.667600	26.077900	4.105160	58.524046	2.204270	0.025854	0.252406	0.060454	0.004617	0.002632	0.167604	0.000797	0.016160	0.009141	0.002567	0.025671
21-Feb-2029	0.844534	15.527300	24.293300	3.824450	54.520753	2.053390	0.024085	0.235133	0.056320	0.004302	0.002452	0.156156	0.000743	0.015055	0.008516	0.002391	0.023914
22-Feb-2029	0.844522	15.650400	24.485900	3.854760	54.952950	2.069670	0.024276	0.236997	0.056766	0.004336	0.002472	0.157394	0.000748	0.015174	0.008583	0.002410	0.024104
23-Feb-2029	0.844518	15.782300	24.692200	3.887230	55.416016	2.087110	0.024480	0.238994	0.057244	0.004372	0.002492	0.158719	0.000755	0.015302	0.008655	0.002431	0.024307
24-Feb-2029	0.844513	15.919000	24.906200	3.920910	55.896050	2.105200	0.024692	0.241065	0.057740	0.004410	0.002514	0.160094	0.000761	0.015435	0.008730	0.002452	0.024518
25-Feb-2029	0.844512	16.061400	25.128900	3.955960	56.395959	2.124020	0.024913	0.243220	0.058257	0.004450	0.002536	0.161525	0.000768	0.015573	0.008809	0.002474	0.024737
26-Feb-2029	0.844517	16.205000	25.353700	3.991350	56.900264	2.143030	0.025136	0.245396	0.058778	0.004489	0.002559	0.162970	0.000775	0.015712	0.008887	0.002496	0.024958
27-Feb-2029	0.844515	16.360400	25.596700	4.029610	57.445853	2.163570	0.025377	0.247748	0.059341	0.004532	0.002584	0.164532	0.000782	0.015863	0.008973	0.002520	0.025197
28-Feb-2029	0.844511	16.521600	25.849000	4.069330	58.011936	2.184890	0.025627	0.250190	0.059926	0.004577	0.002609	0.166153	0.000790	0.016019	0.009061	0.002545	0.025446
1-Mar-2029	0.844507	16.686400	26.106800	4.109910	58.590550	2.206680	0.025883	0.252685	0.060524	0.004623	0.002635	0.167811	0.000798	0.016179	0.009151	0.002570	0.025700
2-Mar-2029	0.844505	16.854500	26.369800	4.151320	59.180822	2.228920	0.026143	0.255231	0.061133	0.004669	0.002662	0.169501	0.000806	0.016342	0.009244	0.002596	0.025959
3-Mar-2029	0.844504	17.037500	26.656200	4.196400	59.823413	2.253120	0.026427	0.258003	0.061797	0.004720	0.002691	0.171341	0.000815	0.016519	0.009344	0.002624	0.026240
4-Mar-2029	0.844502	17.233800	26.963200	4.244730	60.512597	2.279070	0.026732	0.260975	0.062509	0.004774	0.002722	0.173315	0.000824	0.016709	0.009452	0.002654	0.026543
5-Mar-2029	0.844501	17.424100	27.261000	4.291600	61.180787	2.304240	0.027027	0.263856	0.063199	0.004827	0.002752	0.175229	0.000833	0.016894	0.009556	0.002684	0.026836
6-Mar-2029	0.844501	17.616300	27.561800	4.338950	61.855697	2.329660	0.027325	0.266768	0.063897	0.004880	0.002782	0.177162	0.000842	0.017080	0.009661	0.002713	0.027132
7-Mar-2029	0.844502	17.819300	27.879300	4.388940	62.568447	2.356500	0.027640	0.269841	0.064633	0.004937	0.002814	0.179203	0.000852	0.017277	0.009773	0.002744	0.027444
8-Mar-2029	0.844502	18.030300	28.209500	4.440930	63.309409	2.384410	0.027967	0.273037	0.065398	0.004995	0.002847	0.181326	0.000862	0.017482	0.009888	0.002777	0.027769
9-Mar-2029	0.844502	18.243500	28.543000	4.493430	64.057964	2.412610	0.028298	0.276265	0.066172	0.005054	0.002881	0.183470	0.000872	0.017689	0.010005	0.002810	0.028098
10-Mar-2029	0.844502	18.467300	28.893200	4.548550	64.843777	2.442200	0.028645	0.279654	0.066983	0.005116	0.002916	0.185720	0.000883	0.017905	0.010128	0.002844	0.028442
11-Mar-2029	0.844502	18.701200	29.259200	4.606170	65.665104	2.473140	0.029008	0.283197	0.067832	0.005181	0.002953	0.188073	0.000894	0.018132	0.010256	0.002880	0.028803
12-Mar-2029	0.844519	15.447900	24.169800	3.804690	54.241120	2.043000	0.023962	0.233938	0.056029	0.004280	0.002439	0.155332	0.000739	0.014978	0.008472	0.002379	0.023792
13-Mar-2029	0.844519	15.537800	24.310400	3.826830	54.556773	2.054890	0.024102	0.235299	0.056355	0.004304	0.002454	0.156236	0.000743	0.015065	0.008522	0.002393	0.023931
14-Mar-2029	0.844519	15.625800	24.448000	3.848490	54.865704	2.066520	0.024238	0.236631	0.056674	0.004329	0.002467	0.157120	0.000747	0.015150	0.008570	0.002407	0.024066
15-Mar-2029	0.844519	15.676700	24.527700	3.861030	55.044441	2.073260	0.024317	0.237402	0.056859	0.004343	0.002475	0.157632	0.000750	0.015199	0.008598	0.002414	0.024145
16-Mar-2029	0.844519	15.712400	24.583600	3.869830	55.169823	2.077990	0.024372	0.237943	0.056988	0.004353	0.002481	0.157991	0.000751	0.015234	0.008617	0.002420	0.024200
17-Mar-2029	0.844519	15.802600	24.724600	3.892020	55.486431	2.089910	0.024512	0.239308	0.057315	0.004378	0.002495	0.158896	0.000756	0.015321	0.008667	0.002434	0.024338
18-Mar-2029	0.844519	15.920900	24.909800	3.921160	55.901824	2.105560	0.024696	0.241100	0.057744	0.004411	0.002514	0.160086	0.000761	0.015436	0.008732	0.002452	0.024521
19-Mar-2029	0.844519	16.055900	25.121100	3.954420	56.375884	2.123420	0.024905	0.243145	0.058234	0.004448	0.002535	0.161444	0.000768	0.015567	0.008806	0.002473	0.024729
20-Mar-2029	0.844519	16.198100	25.343600	3.989440	56.875170	2.142220	0.025126	0.245299	0.058750	0.004487	0.002558	0.162874	0.000775	0.015705	0.008884	0.002495	0.024948
21-Mar-2029	0.844520	16.335800	25.559000	4.023350	57.358648	2.160440	0.025339	0.247384	0.059249	0.004525	0.002580	0.164258	0.000781	0.015838	0.008959	0.002516	0.025160
22-Mar-2029	0.844520	16.464800	25.760800	4.055120	57.811590	2.177490	0.025540	0.249337	0.059717	0.004561	0.002600	0.165555	0.000787	0.015963	0.009030	0.002536	0.025358
23-Mar-2029	0.844520	16.597000	25.967600	4.087680	58.275775	2.194980	0.025745	0.251339	0.060196	0.004598	0.002621	0.166884	0.000794	0.016092	0.009102	0.002556	0.025562
24-Mar-2029	0.844520	16.734000	26.182000	4.121420	58.756806	2.213100	0.025957	0.253414	0.060693	0.004636	0.002642	0.168262	0.000800	0.016224	0.009178	0.002577	0.025773
25-Mar-2029	0.844520	16.868000	26.391600	4.154410	59.227256	2.230810	0.026165	0.255442	0.061179	0.004673	0.002664	0.169608	0.000807	0.016354	0.009251	0.002598	0.025979
26-Mar-2029	0.844520	17.004300	26.604900	4.187990	59.705880	2.248840	0.026376	0.257507	0.061674	0.004711	0.002685	0.170980	0.000813	0.016486	0.009326	0.002619	0.026189
27-Mar-2029	0.844520	17.145700	26.826200	4.222820	60.202386	2.267550	0.026596	0.259649	0.062187	0.004750	0.002707	0.172401	0.000820	0.016624	0.009403	0.002641	0.026407
28-Mar-2029	0.844520	17.291800	27.054700	4.258800	60.715363	2.286870	0.026822	0.261861	0.062716	0.004790	0.002730	0.173870	0.000827	0.016765	0.009483	0.002663	0.026632
29-Mar-2029	0.844520	17.441300	27.288700	4.295630	61.240330	2.306640	0.027054	0.264125	0.063259	0.004832	0.002754	0.175374	0.000834	0.016910	0.009566	0.002686	0.026862
30-Mar-2029	0.844520	17.594700	27.528700	4.333410	61.778948	2.326930	0.027292	0.266448	0.063815	0.004874	0.002778	0.176916	0.000841	0.017059	0.009650	0.002710	0.027099
31-Mar-2029	0.844520	17.752800	27.776100	4.372350	62.334079	2.347840	0.027537	0.268843	0.064389	0.004918	0.002803	0.178506	0.000849	0.017212	0.009736	0.002734	0.027342
1-Apr-2029	0.844520	17.888200	27.987800	4.405680	62.809426	2.365740	0.027747	0.270892	0.064879	0.004956	0.002825	0.179867	0.000855	0.017343	0.009811	0.002755	0.027551

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2-Apr-2029	0.844520	17.870200	27.959700	4.401250	62.746237	2.363360	0.027720	0.270620	0.064814	0.004951	0.002822	0.179686	0.000855	0.017326	0.009801	0.002752	0.027523
3-Apr-2029	0.844520	17.834900	27.904400	4.392550	62.622266	2.358690	0.027665	0.270085	0.064686	0.004941	0.002816	0.179331	0.000853	0.017292	0.009781	0.002747	0.027469
4-Apr-2029	0.844520	17.806200	27.859600	4.385490	62.521529	2.354900	0.027620	0.269651	0.064582	0.004933	0.002812	0.179042	0.000852	0.017264	0.009766	0.002742	0.027424
5-Apr-2029	0.844520	17.782600	27.822600	4.379670	62.438633	2.351770	0.027584	0.269293	0.064496	0.004926	0.002808	0.178805	0.000850	0.017241	0.009753	0.002739	0.027388
6-Apr-2029	0.844520	17.762600	27.791300	4.374740	62.368392	2.349120	0.027553	0.268990	0.064424	0.004921	0.002805	0.178603	0.000849	0.017222	0.009742	0.002736	0.027357
7-Apr-2029	0.844520	17.753100	27.776400	4.372400	62.335034	2.347870	0.027538	0.268846	0.064389	0.004918	0.002803	0.178508	0.000849	0.017212	0.009736	0.002734	0.027343
8-Apr-2029	0.844521	17.749000	27.770000	4.371390	62.320637	2.347330	0.027531	0.268784	0.064374	0.004917	0.002803	0.178467	0.000849	0.017208	0.009734	0.002734	0.027336
9-Apr-2029	0.844521	17.741200	27.757900	4.369490	62.293336	2.346300	0.027519	0.268667	0.064346	0.004915	0.002801	0.178389	0.000848	0.017201	0.009730	0.002732	0.027324
10-Apr-2029	0.844521	17.729900	27.740200	4.366690	62.253590	2.344800	0.027502	0.268495	0.064305	0.004912	0.002800	0.178275	0.000848	0.017190	0.009724	0.002731	0.027307
11-Apr-2029	0.844521	17.705200	27.701500	4.360610	62.166876	2.341540	0.027464	0.268121	0.064216	0.004905	0.002796	0.178027	0.000847	0.017166	0.009710	0.002727	0.027269
12-Apr-2029	0.844521	17.645200	27.607700	4.345840	61.956234	2.333610	0.027371	0.267213	0.063998	0.004888	0.002786	0.177424	0.000844	0.017108	0.009677	0.002718	0.027177
13-Apr-2029	0.844521	17.637800	27.596100	4.344020	61.930261	2.332630	0.027359	0.267101	0.063971	0.004886	0.002785	0.177349	0.000843	0.017101	0.009673	0.002717	0.027165
14-Apr-2029	0.844521	17.631300	27.585900	4.342400	61.907359	2.331760	0.027349	0.267002	0.063948	0.004884	0.002784	0.177283	0.000843	0.017094	0.009670	0.002716	0.027155
15-Apr-2029	0.844521	17.609300	27.551500	4.337000	61.830188	2.328860	0.027315	0.266669	0.063868	0.004878	0.002781	0.177063	0.000842	0.017073	0.009658	0.002712	0.027121
16-Apr-2029	0.844521	17.589400	27.520400	4.332100	61.760320	2.326230	0.027284	0.266368	0.063796	0.004873	0.002777	0.176863	0.000841	0.017054	0.009647	0.002709	0.027091
17-Apr-2029	0.844521	17.576000	27.499400	4.328800	61.713270	2.324460	0.027263	0.266165	0.063747	0.004869	0.002775	0.176728	0.000841	0.017041	0.009639	0.002707	0.027070
18-Apr-2029	0.844521	17.555800	27.467800	4.323820	61.642323	2.321780	0.027232	0.265859	0.063674	0.004863	0.002772	0.176525	0.000840	0.017021	0.009628	0.002704	0.027039
19-Apr-2029	0.844521	17.531100	27.429100	4.317730	61.555569	2.318510	0.027194	0.265485	0.063584	0.004857	0.002768	0.176276	0.000838	0.016997	0.009615	0.002700	0.027001
20-Apr-2029	0.844521	17.506900	27.391300	4.311780	61.470639	2.315320	0.027156	0.265119	0.063497	0.004850	0.002764	0.176033	0.000837	0.016974	0.009601	0.002696	0.026964
21-Apr-2029	0.844521	17.478500	27.346800	4.304770	61.370857	2.311550	0.027112	0.264688	0.063393	0.004842	0.002760	0.175747	0.000836	0.016946	0.009586	0.002692	0.026920
22-Apr-2029	0.844521	17.448600	27.300000	4.297400	61.265847	2.307600	0.027065	0.264235	0.063285	0.004834	0.002755	0.175446	0.000834	0.016917	0.009569	0.002687	0.026874
23-Apr-2029	0.844521	17.422800	27.259800	4.291070	61.175358	2.304200	0.027026	0.263845	0.063192	0.004827	0.002751	0.175188	0.000833	0.016892	0.009555	0.002683	0.026834
24-Apr-2029	0.844521	17.398400	27.221500	4.285040	61.089600	2.300960	0.026988	0.263475	0.063103	0.004820	0.002747	0.174942	0.000832	0.016868	0.009542	0.002680	0.026796
25-Apr-2029	0.844520	17.373200	27.182100	4.278840	61.001144	2.297630	0.026949	0.263094	0.063012	0.004813	0.002743	0.174688	0.000831	0.016844	0.009528	0.002676	0.026758
26-Apr-2029	0.844520	17.350700	27.146900	4.273300	60.922147	2.294660	0.026914	0.262753	0.062930	0.004807	0.002740	0.174462	0.000830	0.016822	0.009516	0.002672	0.026723
27-Apr-2029	0.844521	17.331100	27.116300	4.268480	60.853357	2.292070	0.026883	0.262457	0.062859	0.004801	0.002737	0.174266	0.000829	0.016803	0.009505	0.002669	0.026693
28-Apr-2029	0.844520	17.312900	27.087800	4.264000	60.789463	2.289660	0.026855	0.262181	0.062793	0.004796	0.002734	0.174082	0.000828	0.016786	0.009495	0.002666	0.026665
29-Apr-2029	0.844520	17.296100	27.061500	4.259860	60.730465	2.287440	0.026829	0.261926	0.062732	0.004791	0.002731	0.173914	0.000827	0.016769	0.009486	0.002664	0.026639
30-Apr-2029	0.844508	17.279100	27.034800	4.255660	60.670721	2.285180	0.026803	0.261668	0.062670	0.004787	0.002728	0.173742	0.000826	0.016753	0.009476	0.002661	0.026613
1-May-2029	0.844042	17.204300	26.917900	4.237250	60.408133	2.275300	0.026687	0.260536	0.062399	0.004766	0.002717	0.172991	0.000823	0.016680	0.009436	0.002650	0.026497
2-May-2029	0.841006	16.820900	26.317900	4.142810	59.061879	2.224590	0.026092	0.254729	0.061008	0.004660	0.002656	0.169135	0.000804	0.016309	0.009225	0.002591	0.025907
3-May-2029	0.837416	16.457600	25.749600	4.053340	57.786281	2.176540	0.025528	0.249228	0.059691	0.004559	0.002599	0.165482	0.000787	0.015956	0.009026	0.002535	0.025347
4-May-2029	0.833478	16.329600	25.549200	4.021810	57.336825	2.159610	0.025330	0.247289	0.059226	0.004524	0.002579	0.164195	0.000781	0.015832	0.008956	0.002515	0.025150
5-May-2029	0.829722	16.231200	25.395400	3.997590	56.991382	2.146600	0.025177	0.245800	0.058870	0.004496	0.002563	0.163206	0.000776	0.015737	0.008902	0.002500	0.024999
6-May-2029	0.825313	16.156800	25.279000	3.979260	56.730122	2.136760	0.025062	0.244673	0.058600	0.004476	0.002551	0.162458	0.000773	0.015665	0.008861	0.002488	0.024884
7-May-2029	0.821765	16.116500	25.215800	3.969320	56.588560	2.131430	0.024999	0.244062	0.058453	0.004465	0.002545	0.162052	0.000771	0.015626	0.008839	0.002482	0.024822
8-May-2029	0.818495	16.079000	25.157300	3.960110	56.456996	2.126480	0.024941	0.243495	0.058318	0.004454	0.002539	0.161676	0.000769	0.015589	0.008818	0.002476	0.024764
9-May-2029	0.815744	16.032400	25.084200	3.948610	56.293279	2.120300	0.024869	0.242788	0.058148	0.004441	0.002532	0.161206	0.000767	0.015544	0.008793	0.002469	0.024692
10-May-2029	0.809233	15.972500	24.990500	3.933860	56.082968	2.112380	0.024776	0.241882	0.057931	0.004425	0.002522	0.160604	0.000764	0.015486	0.008760	0.002460	0.024600
11-May-2029	0.806814	15.922200	24.911800	3.921470	55.906347	2.105730	0.024698	0.241120	0.057749	0.004411	0.002514	0.160098	0.000761	0.015437	0.008732	0.002452	0.024523
12-May-2029	0.804217	15.854200	24.805400	3.904720	55.667574	2.096730	0.024592	0.240090	0.057502	0.004392	0.002503	0.159414	0.000758	0.015371	0.008695	0.002442	0.024418
13-May-2029	0.795486	15.780500	24.690200	3.886580	55.408845	2.086990	0.024478	0.238974	0.057235	0.004372	0.002492	0.158674	0.000755	0.015300	0.008655	0.002430	0.024305
14-May-2029	0.789094	15.695800	24.557600	3.865720	55.111448	2.075790	0.024347	0.237692	0.056928	0.004348	0.002478	0.157822	0.000751	0.015218	0.008608	0.002417	0.024174
15-May-2029	0.781322	15.560800	24.346300	3.832460	54.637388	2.057930	0.024137	0.235647	0.056438	0.004311	0.002457	0.156465	0.000744	0.015087	0.008534	0.002397	0.023966
16-May-2029	0.767915	15.435800	24.150800	3.801680	54.198511	2.041400	0.023943	0.233754	0.055985	0.004276	0.002437	0.155208	0.000738	0.014966	0.008466	0.002377	0.023774
17-May-2029	0.760414	15.314600	23.961100	3.771830	53.772952	2.025370	0.023755	0.231918	0.055545	0.004243	0.002418	0.153989	0.000732	0.014848	0.008399	0.002359	0.023587
18-May-2029	0.758489	15.228200	23.826000	3.750560	53.469621	2.013950	0.023621	0.230610	0.055232	0.004219	0.002405	0.153121	0.000728	0.014764	0.008352	0.002345	0.023454
19-May-2029	0.754409	15.034100	23.522400	3.702770	52.788155	1.988280	0.023320	0.227671	0.054528	0.004165	0.002374	0.151170	0.000719	0.014576	0.008245	0.002315	0.023155
20-May-2029	0.754824	14.734000	23.052700	3.628860	51.734443	1.948570	0.022855	0.223124	0.053441	0.004082	0.002327	0.148153	0.000705	0.014285	0.008081	0.002269	0.022693
21-May-2029	0.757630	14.345100	22.444200	3.533130	50.369144	1.897120	0.022251	0.217233	0.052032	0.003974	0.002265	0.144246	0.000686	0.013909	0.007867	0.002209	0.022094
22-May-2029	0.763609	14.098900	22.058800	3.472470	49.504585	1.864550	0.021869	0.213503	0.051139	0.003906	0.002226	0.141769	0.000674	0.013670	0.007732	0.002171	0.021714
23-May-2029	0.765437	13.725600	21.474700	3.380590	48.194093	1.815150	0.021290	0.207847	0.049787	0.003802	0.002168	0.138019	0.000656	0.013308	0.007528	0.002114	0.021139

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
24-May-2029	0.768622	13.368900	20.916500	3.292780	46.941811	1.767950	0.020736	0.202444	0.048495	0.003703	0.002111	0.134436	0.000639	0.012962	0.007332	0.002059	0.020590
25-May-2029	0.770526	12.969500	20.291400	3.194430	45.539504	1.715100	0.020116	0.196392	0.047048	0.003593	0.002048	0.130422	0.000620	0.012575	0.007113	0.001997	0.019975
26-May-2029	0.775477	12.713600	19.891000	3.131450	44.641170	1.681240	0.019719	0.192515	0.046121	0.003522	0.002008	0.127851	0.000608	0.012327	0.006973	0.001958	0.019580
27-May-2029	0.786007	12.561600	19.653000	3.094020	44.107490	1.661110	0.019483	0.190211	0.045571	0.003480	0.001984	0.126324	0.000601	0.012180	0.006889	0.001935	0.019346
28-May-2029	0.799525	12.430400	19.447600	3.061720	43.646872	1.643740	0.019280	0.188222	0.045096	0.003443	0.001963	0.125007	0.000594	0.012053	0.006817	0.001914	0.019144
29-May-2029	0.809775	12.286900	19.223000	3.026450	43.143310	1.624730	0.019057	0.186047	0.044576	0.003404	0.001941	0.123571	0.000588	0.011914	0.006738	0.001892	0.018923
30-May-2029	0.814099	12.213200	19.107600	3.008320	42.884622	1.614980	0.018943	0.184930	0.044310	0.003383	0.001929	0.122830	0.000584	0.011843	0.006698	0.001881	0.018809
31-May-2029	0.817077	12.150400	19.009300	2.992850	42.664105	1.606660	0.018845	0.183977	0.044083	0.003366	0.001919	0.122198	0.000581	0.011782	0.006664	0.001871	0.018713
1-Jun-2029	0.818920	12.071900	18.886200	2.973600	42.388819	1.596230	0.018723	0.182784	0.043800	0.003344	0.001907	0.121417	0.000577	0.011706	0.006620	0.001859	0.018592
2-Jun-2029	0.818957	11.888600	18.598300	2.928790	41.746591	1.571770	0.018437	0.179990	0.043148	0.003293	0.001879	0.119604	0.000568	0.011530	0.006520	0.001831	0.018309
3-Jun-2029	0.825198	11.682000	18.272100	2.878750	41.024647	1.543840	0.018112	0.176814	0.042442	0.003235	0.001848	0.117593	0.000558	0.011333	0.006406	0.001799	0.017992
4-Jun-2029	0.832129	11.459400	17.913300	2.826950	40.255502	1.512490	0.017752	0.173290	0.041796	0.003171	0.001818	0.115586	0.000547	0.011131	0.006282	0.001765	0.017654
5-Jun-2029	0.834820	11.233600	17.538700	2.777570	39.488332	1.478680	0.017371	0.169557	0.041306	0.003102	0.001794	0.113787	0.000535	0.010939	0.006156	0.001732	0.017317
6-Jun-2029	0.835368	10.985700	17.127900	2.723110	38.645060	1.441410	0.016952	0.165445	0.040761	0.003027	0.001767	0.111783	0.000522	0.010728	0.006016	0.001695	0.016946
7-Jun-2029	0.831780	10.763300	16.758000	2.674700	37.890375	1.407530	0.016573	0.161717	0.040489	0.002959	0.001751	0.110087	0.000511	0.010540	0.005891	0.001661	0.016612
8-Jun-2029	0.840988	10.546300	16.390300	2.629380	37.161898	1.373190	0.016194	0.157989	0.040124	0.002890	0.001733	0.108620	0.000499	0.010366	0.005768	0.001629	0.016290
9-Jun-2029	0.885741	10.417600	16.170200	2.603180	36.732642	1.352270	0.015965	0.155725	0.039778	0.002849	0.001718	0.107541	0.000492	0.010265	0.005695	0.001610	0.016099
10-Jun-2029	0.994323	10.289200	15.953400	2.576090	36.300471	1.331850	0.015737	0.153463	0.039560	0.002808	0.001704	0.106556	0.000485	0.010160	0.005622	0.001590	0.015901
11-Jun-2029	1.151754	10.119300	15.664600	2.540950	35.731524	1.304780	0.015441	0.150560	0.039443	0.002755	0.001693	0.105366	0.000475	0.010026	0.005525	0.001565	0.015653
12-Jun-2029	1.298754	9.973790	15.413100	2.511970	35.248846	1.280620	0.015179	0.147965	0.039723	0.002707	0.001688	0.104414	0.000467	0.009915	0.005442	0.001544	0.015438
13-Jun-2029	1.411603	9.822780	15.153100	2.481580	34.746628	1.256270	0.014908	0.145286	0.039440	0.002659	0.001676	0.103405	0.000459	0.009799	0.005356	0.001521	0.015214
14-Jun-2029	1.544347	9.641520	14.849100	2.442490	34.133049	1.227510	0.014592	0.142118	0.039137	0.002603	0.001664	0.102147	0.000449	0.009650	0.005253	0.001494	0.014935
15-Jun-2029	1.616537	9.439520	14.501700	2.402970	33.465912	1.194360	0.014230	0.138519	0.038938	0.002539	0.001654	0.100879	0.000437	0.009499	0.005138	0.001463	0.014632
16-Jun-2029	1.684305	9.284410	14.231300	2.371040	32.947114	1.168210	0.013949	0.135723	0.038878	0.002489	0.001645	0.099845	0.000429	0.009377	0.005049	0.001440	0.014403
17-Jun-2029	1.704824	9.145870	13.989700	2.343920	32.489500	1.144790	0.013696	0.133220	0.038677	0.002444	0.001635	0.098990	0.000421	0.009274	0.004969	0.001420	0.014199
18-Jun-2029	1.700986	8.996770	13.731100	2.314270	31.995099	1.119940	0.013427	0.130543	0.038509	0.002397	0.001625	0.098116	0.000412	0.009164	0.004884	0.001398	0.013977
19-Jun-2029	1.753229	8.834810	13.447400	2.284660	31.468750	1.092470	0.013134	0.127616	0.038343	0.002345	0.001616	0.097284	0.000403	0.009053	0.004791	0.001374	0.013742
20-Jun-2029	1.895943	8.698400	13.211600	2.256680	31.012913	1.069990	0.012890	0.125177	0.038190	0.002303	0.001606	0.096414	0.000395	0.008948	0.004714	0.001354	0.013536
21-Jun-2029	2.052440	8.574960	12.990800	2.233050	30.607375	1.048940	0.012664	0.122895	0.038066	0.002265	0.001596	0.095721	0.000388	0.008860	0.004642	0.001336	0.013362
22-Jun-2029	2.214161	8.463950	12.803700	2.209540	30.233369	1.030980	0.012470	0.120960	0.037912	0.002232	0.001587	0.095064	0.000382	0.008773	0.004580	0.001319	0.013186
23-Jun-2029	2.404382	8.298570	12.507700	2.177810	29.689751	1.002310	0.012161	0.117902	0.037834	0.002180	0.001577	0.094159	0.000372	0.008654	0.004484	0.001295	0.012948
24-Jun-2029	2.558549	8.166500	12.274700	2.150010	29.245492	0.979814	0.011930	0.115494	0.037668	0.002143	0.001567	0.093553	0.000365	0.008559	0.004410	0.001274	0.012740
25-Jun-2029	2.749721	8.059970	12.095600	2.128340	28.890249	0.962451	0.011736	0.113651	0.037499	0.002107	0.001558	0.092919	0.000359	0.008472	0.004349	0.001258	0.012580
26-Jun-2029	2.932220	7.942430	11.883200	2.105330	28.501997	0.942057	0.011527	0.111448	0.037387	0.002076	0.001551	0.092328	0.000352	0.008394	0.004282	0.001240	0.012404
27-Jun-2029	3.085138	7.821500	11.671200	2.082190	28.104744	0.921534	0.011307	0.109279	0.037252	0.002039	0.001543	0.091786	0.000345	0.008311	0.004213	0.001223	0.012227
28-Jun-2029	3.229284	7.730630	11.516000	2.063750	27.801906	0.906422	0.011139	0.107680	0.037215	0.002009	0.001537	0.091337	0.000340	0.008243	0.004161	0.001209	0.012090
29-Jun-2029	3.376216	7.562780	11.210700	2.031960	27.251873	0.876696	0.010837	0.104528	0.037131	0.001959	0.001531	0.090497	0.000330	0.008127	0.004065	0.001184	0.011843
30-Jun-2029	3.623532	7.441100	10.993600	2.009900	26.857195	0.855506	0.010615	0.102303	0.036925	0.001923	0.001522	0.089971	0.000323	0.008044	0.003995	0.001167	0.011672
1-Jul-2029	5.799609	5.853630	8.236840	1.691620	21.582605	0.591123	0.007775	0.074264	0.034128	0.001437	0.001400	0.084385	0.000232	0.006858	0.003090	0.000932	0.009324
2-Jul-2029	6.540797	5.973120	8.468470	1.694190	21.891555	0.618334	0.008025	0.076761	0.034054	0.001496	0.001386	0.083323	0.000241	0.006960	0.003176	0.000948	0.009478
3-Jul-2029	7.431617	6.082880	8.662690	1.711600	22.237320	0.638366	0.008233	0.078808	0.034018	0.001542	0.001386	0.082328	0.000248	0.007044	0.003243	0.000962	0.009625
4-Jul-2029	8.313343	6.250180	8.972580	1.739260	22.768972	0.669572	0.008540	0.081881	0.033951	0.001595	0.001388	0.082452	0.000258	0.007147	0.003341	0.000986	0.009865
5-Jul-2029	9.878005	6.665630	9.730400	1.804540	24.075174	0.745732	0.009301	0.089484	0.034336	0.001727	0.001397	0.084403	0.000283	0.007448	0.003591	0.001048	0.010481
6-Jul-2029	10.259523	6.355610	9.151920	1.756600	23.103637	0.688481	0.008743	0.083911	0.033821	0.001654	0.001390	0.083841	0.000264	0.007233	0.003406	0.000999	0.009995
7-Jul-2029	9.863044	6.367090	9.172110	1.758790	23.141321	0.690734	0.008767	0.084147	0.033729	0.001662	0.001389	0.084036	0.000265	0.007238	0.003412	0.001001	0.010005
8-Jul-2029	10.026666	6.563320	9.531490	1.789350	23.757153	0.726777	0.009125	0.087734	0.033954	0.001722	0.001393	0.084571	0.000277	0.007380	0.003530	0.001030	0.010301
9-Jul-2029	10.558247	6.751680	9.877650	1.818800	24.348763	0.761450	0.009469	0.091175	0.034166	0.001778	0.001397	0.085015	0.000288	0.007514	0.003644	0.001059	0.010586
10-Jul-2029	11.475581	7.153530	10.615900	1.882030	25.612564	0.835398	0.010202	0.098516	0.034592	0.001898	0.001405	0.086006	0.000313	0.007798	0.003885	0.001119	0.011193
11-Jul-2029	10.899268	6.574510	9.556360	1.794440	23.806055	0.729107	0.009144	0.087918	0.033692	0.001726	0.001393	0.084544	0.000278	0.007363	0.003533	0.001031	0.010310
12-Jul-2029	11.584279	6.820170	10.006700	1.832570	24.576488	0.774242	0.009592	0.092404	0.033990	0.001799	0.001398	0.085168	0.000293	0.007541	0.003681	0.001068	0.010682
13-Jul-2029	12.283119	6.901150	10.159100	1.848420	24.843965	0.789245	0.009739	0.093874	0.033918	0.001823	0.001399	0.085305	0.000298	0.007578	0.003726	0.001080	0.010803
14-Jul-2029	13.137934	6.755210	9.882070	1.825700	24.385992	0.761626	0.009473	0.091202	0.033781	0.001789	0.001398	0.085866	0.000289	0.007487	0.003639	0.001057	0.010575

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Jul-2029	13.881623	6.748950	9.867500	1.825010	24.367519	0.760178	0.009461	0.091081	0.033756	0.001791	0.001398	0.085613	0.000288	0.007486	0.003636	0.001056	0.010562
16-Jul-2029	13.001974	6.673750	9.733250	1.814700	24.137288	0.746574	0.009322	0.089695	0.033562	0.001766	0.001396	0.085319	0.000284	0.007419	0.003588	0.001045	0.010447
17-Jul-2029	12.684270	6.650050	9.690840	1.811940	24.066744	0.742216	0.009277	0.089243	0.033468	0.001758	0.001396	0.085191	0.000282	0.007396	0.003573	0.001041	0.010410
18-Jul-2029	11.158747	6.685080	9.755240	1.818460	24.181063	0.748572	0.009340	0.089871	0.033456	0.001769	0.001397	0.085293	0.000285	0.007416	0.003593	0.001046	0.010461
19-Jul-2029	11.042866	6.795600	9.957060	1.836260	24.530332	0.768750	0.009541	0.091884	0.033569	0.001803	0.001399	0.085852	0.000291	0.007494	0.003659	0.001063	0.010627
20-Jul-2029	11.618853	7.052270	10.424100	1.875670	25.333527	0.815621	0.010010	0.096575	0.033938	0.001883	0.001405	0.086463	0.000307	0.007688	0.003815	0.001101	0.011015
21-Jul-2029	12.589874	7.015460	10.358100	1.871050	25.222588	0.808903	0.009942	0.095900	0.033842	0.001871	0.001404	0.086437	0.000305	0.007654	0.003791	0.001096	0.010959
22-Jul-2029	13.268313	7.140050	10.586000	1.891880	25.619467	0.831634	0.010169	0.098159	0.033917	0.001910	0.001407	0.086723	0.000312	0.007738	0.003865	0.001114	0.011145
23-Jul-2029	13.773634	7.101160	10.528700	1.893010	25.527012	0.825226	0.010095	0.097439	0.033735	0.001893	0.001406	0.086505	0.000310	0.007677	0.003833	0.001109	0.011086
24-Jul-2029	14.229538	7.360020	10.996400	1.930850	26.329210	0.872335	0.010568	0.102162	0.033938	0.001974	0.001412	0.087104	0.000326	0.007864	0.003991	0.001148	0.011477
25-Jul-2029	14.738349	7.351580	10.978000	1.928400	26.298046	0.870586	0.010553	0.102003	0.034019	0.001973	0.001412	0.087191	0.000325	0.007868	0.003988	0.001146	0.011463
26-Jul-2029	15.165081	7.526620	11.299400	1.956920	26.852567	0.902697	0.010872	0.105193	0.034156	0.002026	0.001415	0.087652	0.000336	0.007987	0.004092	0.001173	0.011727
27-Jul-2029	15.641353	7.664490	11.548700	1.977890	27.283183	0.927767	0.011124	0.107711	0.034368	0.002070	0.001418	0.088174	0.000344	0.008094	0.004176	0.001193	0.011934
28-Jul-2029	15.887483	7.600870	11.431800	1.968640	27.086232	0.916004	0.011007	0.106540	0.034293	0.002051	0.001417	0.088143	0.000341	0.008048	0.004137	0.001184	0.011836
29-Jul-2029	15.695834	7.458790	11.171800	1.948460	26.648357	0.889876	0.010747	0.103933	0.034051	0.002008	0.001415	0.087651	0.000332	0.007940	0.004050	0.001162	0.011620
30-Jul-2029	16.099230	7.438410	11.140800	1.946440	26.589150	0.886446	0.010706	0.103527	0.033857	0.001998	0.001414	0.087351	0.000331	0.007902	0.004034	0.001159	0.011588
31-Jul-2029	15.179366	7.407150	11.079900	1.940840	26.488033	0.880435	0.010649	0.102946	0.033837	0.001991	0.001414	0.087416	0.000329	0.007888	0.004017	0.001154	0.011538
1-Aug-2029	14.981470	7.296380	10.878900	1.925570	26.148558	0.860088	0.010444	0.100890	0.033619	0.001957	0.001412	0.087433	0.000322	0.007796	0.003947	0.001137	0.011367
2-Aug-2029	14.658323	7.531970	11.305300	1.963090	26.891334	0.902786	0.010871	0.105149	0.033868	0.002035	0.001417	0.088036	0.000336	0.007970	0.004089	0.001172	0.011718
3-Aug-2029	14.445919	7.518620	11.285000	1.962700	26.856393	0.900412	0.010839	0.104825	0.033749	0.002027	0.001417	0.087812	0.000336	0.007946	0.004079	0.001170	0.011699
4-Aug-2029	14.910168	7.581630	11.400500	1.973310	27.057421	0.911843	0.010950	0.105935	0.033799	0.002046	0.001418	0.088002	0.000340	0.007988	0.004116	0.001179	0.011793
5-Aug-2029	14.134372	7.765380	11.739800	2.002630	27.636984	0.945642	0.011281	0.109241	0.033963	0.002099	0.001422	0.088329	0.000351	0.008113	0.004226	0.001207	0.012072
6-Aug-2029	13.883166	7.691750	11.606900	1.992240	27.410344	0.932136	0.011143	0.107856	0.033802	0.002075	0.001420	0.088056	0.000346	0.008052	0.004180	0.001196	0.011961
7-Aug-2029	13.128089	7.902020	11.994000	2.026310	28.075689	0.970686	0.011520	0.111626	0.033995	0.002137	0.001425	0.088556	0.000359	0.008195	0.004305	0.001228	0.012279
8-Aug-2029	13.438157	7.908310	12.002800	2.027600	28.096707	0.971530	0.011531	0.111727	0.033997	0.002141	0.001426	0.088705	0.000360	0.008202	0.004309	0.001229	0.012285
9-Aug-2029	13.603085	7.840240	11.881000	2.019130	27.891857	0.959054	0.011401	0.110419	0.033812	0.002120	0.001424	0.088488	0.000356	0.008139	0.004265	0.001218	0.012181
10-Aug-2029	12.832145	7.897640	11.980100	2.028970	28.075706	0.968946	0.011502	0.111422	0.033859	0.002144	0.001426	0.088968	0.000359	0.008184	0.004299	0.001226	0.012260
11-Aug-2029	12.332472	7.800140	11.805900	2.015530	27.776902	0.951186	0.011319	0.109589	0.033623	0.002111	0.001424	0.088518	0.000353	0.008099	0.004238	0.001211	0.012114
12-Aug-2029	13.265000	7.648560	11.531100	1.993510	27.307729	0.923394	0.011038	0.106764	0.033318	0.002063	0.001421	0.088619	0.000344	0.007977	0.004144	0.001188	0.011881
13-Aug-2029	12.192064	7.923210	12.035300	2.038040	28.176904	0.973633	0.011531	0.111692	0.033571	0.002146	0.001427	0.088715	0.000361	0.008166	0.004308	0.001230	0.012296
14-Aug-2029	11.739060	7.850260	11.899800	2.027300	27.950521	0.960003	0.011396	0.110338	0.033453	0.002127	0.001426	0.088651	0.000356	0.008113	0.004263	0.001218	0.012183
15-Aug-2029	11.655706	7.836910	11.879600	2.026870	27.915415	0.957705	0.011366	0.110036	0.033343	0.002120	0.001425	0.088454	0.000356	0.008089	0.004253	0.001216	0.012164
16-Aug-2029	11.572415	8.150850	12.461700	2.079670	28.916754	1.015370	0.011924	0.115611	0.033533	0.002210	0.001432	0.089043	0.000375	0.008289	0.004437	0.001264	0.012641
17-Aug-2029	10.383451	8.025540	12.213500	2.052580	28.492298	0.991507	0.011705	0.113405	0.033805	0.002186	0.001430	0.089438	0.000367	0.008260	0.004372	0.001244	0.012441
18-Aug-2029	9.711354	8.067820	12.292500	2.060700	28.631309	0.999195	0.011778	0.114130	0.033720	0.002198	0.001431	0.089517	0.000369	0.008279	0.004396	0.001250	0.012505
19-Aug-2029	9.663203	8.408600	12.916800	2.113450	29.699461	1.061720	0.012398	0.120328	0.034161	0.002300	0.001438	0.090400	0.000390	0.008528	0.004602	0.001302	0.013021
20-Aug-2029	9.910210	8.556080	13.187200	2.137270	30.165810	1.088660	0.012663	0.122984	0.034313	0.002344	0.001441	0.090785	0.000399	0.008630	0.004689	0.001324	0.013244
21-Aug-2029	9.222747	8.371310	12.854500	2.112120	29.600871	1.054820	0.012317	0.119517	0.033892	0.002285	0.001437	0.090113	0.000388	0.008471	0.004573	0.001296	0.012964
22-Aug-2029	9.397145	8.100230	12.358900	2.071900	28.758359	1.004940	0.011819	0.114520	0.033426	0.002204	0.001432	0.089395	0.000372	0.008263	0.004408	0.001255	0.012549
23-Aug-2029	9.782991	8.398890	12.911800	2.122320	29.711742	1.059690	0.012347	0.119799	0.033604	0.002291	0.001438	0.090027	0.000390	0.008453	0.004583	0.001300	0.013001
24-Aug-2029	9.765535	8.190020	12.523800	2.089310	29.054259	1.020970	0.011969	0.116008	0.033370	0.002233	0.001435	0.089738	0.000377	0.008311	0.004458	0.001268	0.012679
25-Aug-2029	10.181233	8.339720	12.804800	2.117290	29.543281	1.048400	0.012224	0.118549	0.033347	0.002276	0.001438	0.090038	0.000387	0.008388	0.004542	0.001290	0.012905
26-Aug-2029	10.455979	8.269020	12.666700	2.104070	29.312303	1.034930	0.012102	0.117324	0.033358	0.002261	0.001437	0.090139	0.000382	0.008360	0.004503	0.001279	0.012793
27-Aug-2029	9.628714	8.221590	12.583100	2.098050	29.169080	1.026310	0.012011	0.116417	0.033202	0.002243	0.001436	0.089845	0.000379	0.008314	0.004473	0.001272	0.012721
28-Aug-2029	8.575472	8.262360	12.658000	2.105560	29.301809	1.033640	0.012081	0.117108	0.033194	0.002256	0.001437	0.089985	0.000382	0.008337	0.004496	0.001278	0.012781
29-Aug-2029	8.353262	8.268160	12.670300	2.107410	29.323910	1.034700	0.012088	0.117174	0.033140	0.002256	0.001437	0.089906	0.000382	0.008334	0.004498	0.001279	0.012789
30-Aug-2029	8.561857	8.350830	12.830100	2.124410	29.600343	1.050040	0.012227	0.118555	0.033137	0.002275	0.001439	0.089912	0.000387	0.008364	0.004542	0.001292	0.012917
31-Aug-2029	8.209970	8.332800	12.789700	2.118350	29.530367	1.046480	0.012202	0.118306	0.033156	0.002274	0.001439	0.090025	0.000386	0.008375	0.004536	0.001289	0.012885
1-Sep-2029	8.117782	8.431330	12.970900	2.134280	29.841996	1.064510	0.012379	0.120069	0.033242	0.002303	0.001441	0.090256	0.000392	0.008442	0.004594	0.001303	0.013034
2-Sep-2029	8.208053	8.714620	13.490800	2.177880	30.728916	1.116670	0.012895	0.125241	0.033601	0.002389	0.001446	0.090972	0.000410	0.008648	0.004766	0.001346	0.013463
3-Sep-2029	8.579674	8.969660	13.957400	2.217050	31.527053	1.163630	0.013360	0.129885	0.033901	0.002470	0.001450	0.091772	0.000425	0.008834	0.004920	0.001385	0.013845
4-Sep-2029	7.811376	8.521040	13.139700	2.149340	30.128019	1.081610	0.012538	0.121668	0.033176	0.002336	0.001440	0.090544	0.000398	0.008491	0.004647	0.001316	0.013163

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Sep-2029	7.680244	8.473400	13.053400	2.142450	29.980689	1.072990	0.012450	0.120780	0.033051	0.002324	0.001439	0.090574	0.000395	0.008452	0.004618	0.001309	0.013087
6-Sep-2029	7.242755	8.531510	13.160300	2.151650	30.163675	1.083780	0.012555	0.121833	0.033081	0.002343	0.001439	0.090678	0.000399	0.008491	0.004653	0.001317	0.013173
7-Sep-2029	6.420792	8.611340	13.308300	2.163620	30.412303	1.098740	0.012702	0.123311	0.033165	0.002367	0.001440	0.090822	0.000404	0.008547	0.004701	0.001329	0.013295
8-Sep-2029	6.015272	8.641560	13.365800	2.168320	30.507117	1.104570	0.012758	0.123871	0.033165	0.002376	0.001440	0.090843	0.000406	0.008565	0.004719	0.001334	0.013340
9-Sep-2029	5.653971	8.688690	13.453500	2.175660	30.655027	1.113410	0.012844	0.124736	0.033196	0.002390	0.001441	0.090939	0.000409	0.008596	0.004747	0.001341	0.013410
10-Sep-2029	5.702746	8.657630	13.398500	2.171240	30.559268	1.107980	0.012786	0.124159	0.033086	0.002382	0.001439	0.090868	0.000407	0.008567	0.004728	0.001336	0.013360
11-Sep-2029	5.184916	8.835790	13.727300	2.198860	31.117873	1.140980	0.013113	0.127437	0.033289	0.002434	0.001442	0.091224	0.000418	0.008693	0.004835	0.001363	0.013632
12-Sep-2029	4.518325	8.785630	13.636700	2.190690	30.958980	1.132030	0.013022	0.126524	0.033195	0.002420	0.001440	0.091066	0.000415	0.008654	0.004805	0.001355	0.013554
13-Sep-2029	4.208432	8.803830	13.670900	2.193910	31.017685	1.135570	0.013054	0.126842	0.033149	0.002429	0.001440	0.091203	0.000416	0.008663	0.004816	0.001358	0.013578
14-Sep-2029	3.340275	8.896660	13.842300	2.207820	31.306763	1.152830	0.013225	0.128556	0.033268	0.002456	0.001441	0.091378	0.000422	0.008730	0.004872	0.001372	0.013719
15-Sep-2029	2.387921	8.920720	13.888000	2.211630	31.382530	1.157460	0.013269	0.129001	0.033267	0.002463	0.001441	0.091388	0.000423	0.008744	0.004886	0.001376	0.013755
16-Sep-2029	2.008260	8.927420	13.902100	2.212730	31.403790	1.158900	0.013282	0.129127	0.033241	0.002464	0.001441	0.091340	0.000424	0.008745	0.004890	0.001376	0.013765
17-Sep-2029	1.877970	9.038130	14.112400	2.229670	31.749992	1.180260	0.013488	0.131202	0.033306	0.002496	0.001441	0.091455	0.000431	0.008812	0.004956	0.001393	0.013933
18-Sep-2029	1.877820	9.215800	14.434600	2.256400	32.303708	1.212600	0.013812	0.134436	0.033567	0.002551	0.001445	0.091977	0.000442	0.008950	0.005065	0.001420	0.014201
19-Sep-2029	1.890932	9.213830	14.438700	2.256080	32.297471	1.213250	0.013812	0.134447	0.033450	0.002549	0.001443	0.091737	0.000442	0.008933	0.005063	0.001420	0.014199
20-Sep-2029	1.842973	9.195590	14.400500	2.253510	32.241342	1.209310	0.013775	0.134066	0.033458	0.002546	0.001443	0.091897	0.000440	0.008927	0.005052	0.001417	0.014168
21-Sep-2029	1.672796	9.162210	14.341300	2.249050	32.139626	1.203290	0.013713	0.133454	0.033366	0.002535	0.001442	0.091723	0.000438	0.008897	0.005031	0.001412	0.014117
22-Sep-2029	1.522538	9.077700	14.190200	2.236340	31.876265	1.188210	0.013560	0.131924	0.033224	0.002508	0.001440	0.091429	0.000433	0.008827	0.004979	0.001399	0.013989
23-Sep-2029	1.363024	9.114240	14.256200	2.241790	31.989949	1.194990	0.013626	0.132578	0.033209	0.002523	0.001440	0.091616	0.000436	0.008854	0.005001	0.001404	0.014040
24-Sep-2029	1.107796	9.165510	14.351300	2.249610	32.150172	1.204540	0.013720	0.133524	0.033264	0.002537	0.001440	0.091684	0.000439	0.008890	0.005032	0.001412	0.014118
25-Sep-2029	0.620770	9.338520	14.669600	2.275910	32.690482	1.236650	0.014038	0.136701	0.033460	0.002591	0.001443	0.092152	0.000450	0.009014	0.005137	0.001438	0.014379
26-Sep-2029	0.788773	9.376150	14.742000	2.281730	32.808411	1.244060	0.014107	0.137399	0.033437	0.002603	0.001442	0.092170	0.000452	0.009034	0.005160	0.001443	0.014434
27-Sep-2029	0.809975	9.342840	14.681800	2.276700	32.704522	1.238090	0.014046	0.136790	0.033359	0.002594	0.001441	0.092099	0.000450	0.009007	0.005139	0.001438	0.014382
28-Sep-2029	0.420142	9.466570	14.911000	2.296110	33.093406	1.261020	0.014273	0.139065	0.033488	0.002628	0.001443	0.092278	0.000458	0.009092	0.005213	0.001457	0.014571
29-Sep-2029	0.006593	9.344650	14.687600	2.277280	32.711430	1.238680	0.014050	0.136834	0.033317	0.002593	0.001441	0.092004	0.000450	0.009003	0.005140	0.001439	0.014385
30-Sep-2029	0.003460	9.380740	14.755900	2.283050	32.825308	1.245650	0.014117	0.137501	0.033295	0.002605	0.001440	0.092079	0.000453	0.009023	0.005161	0.001444	0.014438
1-Oct-2029	0.003938	9.298550	14.608600	2.270870	32.569922	1.230940	0.013968	0.136018	0.033130	0.002580	0.001438	0.091832	0.000448	0.008956	0.005110	0.001431	0.014313
2-Oct-2029	0.015126	9.271710	14.559100	2.266060	32.483095	1.226140	0.013920	0.135535	0.033088	0.002574	0.001437	0.091775	0.000446	0.008937	0.005095	0.001427	0.014271
3-Oct-2029	0.125233	9.254890	14.529600	2.262930	32.428206	1.223350	0.013891	0.135250	0.033062	0.002569	0.001436	0.091722	0.000445	0.008924	0.005085	0.001424	0.014245
4-Oct-2029	0.234057	9.244110	14.509200	2.261390	32.394947	1.221280	0.013871	0.135048	0.033051	0.002566	0.001436	0.091686	0.000444	0.008917	0.005079	0.001423	0.014229
5-Oct-2029	0.141418	9.238010	14.498400	2.260310	32.375268	1.220200	0.013860	0.134942	0.033044	0.002564	0.001436	0.091644	0.000444	0.008912	0.005075	0.001422	0.014220
6-Oct-2029	0.010425	9.206930	14.442500	2.255000	32.275794	1.214740	0.013806	0.134397	0.033011	0.002555	0.001434	0.091546	0.000442	0.008889	0.005057	0.001417	0.014173
7-Oct-2029	0.093412	9.203770	14.437500	2.254230	32.264733	1.214310	0.013801	0.134350	0.032997	0.002554	0.001434	0.091519	0.000442	0.008887	0.005055	0.001417	0.014168
8-Oct-2029	0.210295	9.196640	14.424700	2.252990	32.241823	1.213060	0.013788	0.134226	0.032987	0.002552	0.001434	0.091484	0.000442	0.008881	0.005051	0.001416	0.014158
9-Oct-2029	0.230631	9.185070	14.404100	2.250990	32.204697	1.211040	0.013768	0.134024	0.032974	0.002548	0.001433	0.091436	0.000441	0.008873	0.005044	0.001414	0.014140
10-Oct-2029	0.146567	9.167380	14.372400	2.247980	32.148130	1.207920	0.013737	0.133715	0.032952	0.002543	0.001433	0.091358	0.000440	0.008860	0.005033	0.001411	0.014114
11-Oct-2029	0.011600	9.136050	14.315400	2.242840	32.048732	1.202250	0.013681	0.133158	0.032952	0.002533	0.001432	0.091250	0.000438	0.008837	0.005015	0.001407	0.014068
12-Oct-2029	0.010388	9.117800	14.282900	2.239730	31.990355	1.199070	0.013649	0.132841	0.032908	0.002527	0.001431	0.091179	0.000437	0.008824	0.005004	0.001404	0.014041
13-Oct-2029	0.056731	9.098110	14.248200	2.236310	31.927105	1.195710	0.013615	0.132503	0.032879	0.002521	0.001430	0.091089	0.000436	0.008808	0.004992	0.001401	0.014011
14-Oct-2029	0.089462	9.087910	14.230900	2.234330	31.893482	1.194100	0.013598	0.132336	0.032857	0.002518	0.001430	0.091054	0.000435	0.008799	0.004986	0.001400	0.013996
15-Oct-2029	0.126374	9.069380	14.196600	2.231500	31.835559	1.190630	0.013564	0.131998	0.032834	0.002512	0.001429	0.090968	0.000434	0.008787	0.004975	0.001397	0.013968
16-Oct-2029	0.126983	9.078640	14.213900	2.232750	31.863829	1.192390	0.013581	0.132170	0.032842	0.002515	0.001429	0.090983	0.000435	0.008793	0.004981	0.001398	0.013982
17-Oct-2029	0.122381	9.168540	14.350200	2.256370	32.185576	1.203510	0.013710	0.133421	0.033210	0.002540	0.001445	0.091998	0.000439	0.008884	0.005029	0.001412	0.014122
18-Oct-2029	0.122170	9.239810	14.466600	2.272270	32.429013	1.213640	0.013823	0.134521	0.033419	0.002560	0.001454	0.092580	0.000442	0.008949	0.005069	0.001423	0.014230
19-Oct-2029	0.122571	9.277280	14.523700	2.282230	32.563591	1.218250	0.013877	0.135046	0.033578	0.002570	0.001461	0.093014	0.000444	0.008987	0.005090	0.001429	0.014289
20-Oct-2029	0.125931	9.350790	14.638300	2.300260	32.821393	1.227800	0.013986	0.136110	0.033843	0.002590	0.001473	0.093746	0.000448	0.009058	0.005130	0.001440	0.014402
21-Oct-2029	0.134752	9.283480	14.529200	2.284960	32.590315	1.218220	0.013881	0.135082	0.033642	0.002571	0.001464	0.093164	0.000444	0.008997	0.005092	0.001430	0.014299
22-Oct-2029	0.132466	9.335840	14.611800	2.297640	32.773274	1.225210	0.013960	0.135852	0.033824	0.002585	0.001472	0.093674	0.000447	0.009047	0.005121	0.001438	0.014380
23-Oct-2029	0.128542	9.394610	14.704200	2.311950	32.978951	1.233010	0.014049	0.136712	0.034032	0.002602	0.001481	0.094253	0.000450	0.009103	0.005153	0.001447	0.014470
24-Oct-2029	0.127685	9.435060	14.767600	2.321890	33.120888	1.238330	0.014109	0.137302	0.034178	0.002613	0.001487	0.094658	0.000451	0.009143	0.005176	0.001453	0.014532
25-Oct-2029	0.127865	9.471560	14.824400	2.330970	33.249420	1.243070	0.014163	0.137829	0.034313	0.002623	0.001493	0.095031	0.000453	0.009178	0.005195	0.001459	0.014589
26-Oct-2029	0.128740	9.502730	14.872900	2.338770	33.359372	1.247090	0.014210	0.138278	0.034430	0.002631	0.001498	0.095353	0.000455	0.009209	0.005213	0.001464	0.014637

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
27-Oct-2029	0.130166	9.549100	14.945300	2.350240	33.522391	1.253140	0.014279	0.138951	0.034600	0.002644	0.001506	0.095823	0.000457	0.009254	0.005238	0.001471	0.014708
28-Oct-2029	0.131142	9.582670	14.997800	2.358500	33.640230	1.257550	0.014329	0.139439	0.034721	0.002654	0.001511	0.096160	0.000458	0.009286	0.005256	0.001476	0.014760
29-Oct-2029	0.130095	9.601620	15.028100	2.362950	33.705873	1.260160	0.014358	0.139723	0.034783	0.002659	0.001514	0.096335	0.000459	0.009304	0.005267	0.001479	0.014789
30-Oct-2029	0.129100	9.614210	15.048600	2.365780	33.748964	1.261960	0.014378	0.139916	0.034820	0.002663	0.001515	0.096442	0.000460	0.009315	0.005274	0.001481	0.014808
31-Oct-2029	0.128378	9.631610	15.076300	2.369890	33.809337	1.264350	0.014404	0.140176	0.034877	0.002667	0.001518	0.096604	0.000461	0.009332	0.005284	0.001483	0.014835
1-Nov-2029	0.127700	9.683100	15.156900	2.382560	33.990083	1.271110	0.014481	0.140926	0.035063	0.002682	0.001526	0.097120	0.000463	0.009382	0.005312	0.001491	0.014914
2-Nov-2029	0.127193	9.737400	15.241600	2.396010	34.181057	1.278190	0.014562	0.141712	0.035263	0.002697	0.001534	0.097672	0.000466	0.009435	0.005342	0.001500	0.014998
3-Nov-2029	0.127083	9.718090	15.211500	2.391210	34.113074	1.275680	0.014534	0.141433	0.035191	0.002691	0.001531	0.097476	0.000465	0.009416	0.005331	0.001497	0.014968
4-Nov-2029	0.127203	9.769890	15.293000	2.403840	34.294428	1.282550	0.014611	0.142191	0.035375	0.002706	0.001539	0.097986	0.000468	0.009466	0.005359	0.001505	0.015048
5-Nov-2029	0.127365	9.821600	15.373900	2.416560	34.475929	1.289340	0.014689	0.142944	0.035562	0.002720	0.001547	0.098504	0.000470	0.009516	0.005388	0.001513	0.015127
6-Nov-2029	0.127368	9.884240	15.471900	2.431990	34.695882	1.297550	0.014782	0.143855	0.035789	0.002737	0.001557	0.099134	0.000473	0.009576	0.005422	0.001522	0.015224
7-Nov-2029	0.127232	9.921970	15.530900	2.441290	34.828391	1.302500	0.014839	0.144404	0.035926	0.002748	0.001563	0.099514	0.000475	0.009613	0.005443	0.001528	0.015282
8-Nov-2029	0.127060	9.959000	15.588700	2.450450	34.958576	1.307330	0.014894	0.144941	0.036062	0.002758	0.001569	0.099891	0.000477	0.009649	0.005463	0.001534	0.015339
9-Nov-2029	0.127181	10.006300	15.662500	2.462170	35.124947	1.313480	0.014964	0.145625	0.036235	0.002771	0.001577	0.100373	0.000479	0.009695	0.005489	0.001541	0.015412
10-Nov-2029	0.127071	10.056600	15.741000	2.474610	35.301774	1.320050	0.015039	0.146355	0.036419	0.002785	0.001585	0.100885	0.000481	0.009744	0.005517	0.001549	0.015489
11-Nov-2029	0.126943	10.095800	15.802200	2.484320	35.439642	1.325160	0.015098	0.146923	0.036563	0.002796	0.001591	0.101284	0.000483	0.009782	0.005538	0.001555	0.015550
12-Nov-2029	0.126744	10.135100	15.863500	2.494030	35.577760	1.330290	0.015156	0.147492	0.036706	0.002807	0.001597	0.101684	0.000485	0.009820	0.005560	0.001561	0.015610
13-Nov-2029	0.126714	10.178100	15.930700	2.504670	35.728947	1.335910	0.015221	0.148117	0.036863	0.002819	0.001604	0.102122	0.000487	0.009862	0.005583	0.001568	0.015676
14-Nov-2029	0.126946	10.235300	16.020100	2.518760	35.929798	1.343400	0.015306	0.148948	0.037070	0.002835	0.001613	0.102699	0.000490	0.009918	0.005615	0.001576	0.015764
15-Nov-2029	0.126928	10.283000	16.094700	2.530550	36.097456	1.349650	0.015377	0.149642	0.037244	0.002848	0.001621	0.103185	0.000492	0.009964	0.005641	0.001584	0.015838
16-Nov-2029	0.126422	10.329000	16.166600	2.541860	36.258892	1.355670	0.015446	0.150309	0.037410	0.002861	0.001628	0.103649	0.000494	0.010009	0.005666	0.001591	0.015909
17-Nov-2029	0.126202	10.376800	16.241400	2.553630	36.426718	1.361950	0.015517	0.151005	0.037581	0.002874	0.001636	0.104133	0.000497	0.010055	0.005692	0.001598	0.015982
18-Nov-2029	0.126231	10.418500	16.306600	2.563870	36.573011	1.367430	0.015580	0.151612	0.037730	0.002886	0.001642	0.104554	0.000499	0.010095	0.005715	0.001605	0.016046
19-Nov-2029	0.126074	10.447100	16.351400	2.570970	36.673663	1.371170	0.015622	0.152027	0.037835	0.002894	0.001647	0.104847	0.000500	0.010123	0.005731	0.001609	0.016090
20-Nov-2029	0.125903	10.477200	16.398300	2.578380	36.779337	1.375100	0.015667	0.152463	0.037944	0.002902	0.001651	0.105152	0.000501	0.010152	0.005747	0.001614	0.016136
21-Nov-2029	0.125873	10.531000	16.482400	2.591640	36.968281	1.382160	0.015748	0.153246	0.038138	0.002917	0.001660	0.105696	0.000504	0.010205	0.005777	0.001622	0.016219
22-Nov-2029	0.125902	10.571100	16.545200	2.601530	37.109137	1.387420	0.015808	0.153829	0.038283	0.002928	0.001666	0.106102	0.000506	0.010244	0.005799	0.001628	0.016281
23-Nov-2029	0.125839	10.624000	16.628000	2.614540	37.294804	1.394360	0.015887	0.154599	0.038474	0.002943	0.001675	0.106633	0.000508	0.010295	0.005828	0.001636	0.016362
24-Nov-2029	0.125708	10.612200	16.609400	2.611680	37.253562	1.392800	0.015869	0.154426	0.038432	0.002940	0.001673	0.106520	0.000508	0.010283	0.005821	0.001634	0.016344
25-Nov-2029	0.125724	10.633300	16.642300	2.616900	37.327744	1.395550	0.015900	0.154731	0.038508	0.002946	0.001676	0.106737	0.000509	0.010304	0.005833	0.001638	0.016377
26-Nov-2029	0.125726	10.656300	16.678200	2.622580	37.408566	1.398550	0.015935	0.155065	0.038592	0.002952	0.001680	0.106973	0.000510	0.010326	0.005845	0.001641	0.016412
27-Nov-2029	0.125643	10.698400	16.744000	2.632960	37.556434	1.404060	0.015998	0.155676	0.038744	0.002964	0.001686	0.107398	0.000512	0.010367	0.005868	0.001648	0.016477
28-Nov-2029	0.125602	10.751600	16.827300	2.646070	37.743261	1.411040	0.016077	0.156451	0.038937	0.002979	0.001695	0.107935	0.000514	0.010419	0.005898	0.001656	0.016559
29-Nov-2029	0.125605	10.802800	16.907400	2.658670	37.922995	1.417760	0.016154	0.157195	0.039122	0.002993	0.001703	0.108451	0.000517	0.010468	0.005926	0.001664	0.016638
30-Nov-2029	0.125516	10.852500	16.985100	2.670900	38.097459	1.424280	0.016228	0.157918	0.039301	0.003007	0.001711	0.108951	0.000519	0.010516	0.005953	0.001671	0.016714
1-Dec-2029	0.125483	10.900000	17.059600	2.682620	38.264329	1.430520	0.016299	0.158610	0.039474	0.003020	0.001718	0.109431	0.000522	0.010563	0.005979	0.001679	0.016787
2-Dec-2029	0.125515	10.943500	17.127500	2.693320	38.417011	1.436210	0.016364	0.159242	0.039631	0.003032	0.001725	0.109869	0.000524	0.010605	0.006003	0.001685	0.016854
3-Dec-2029	0.125465	10.993000	17.204900	2.705490	38.590729	1.442710	0.016438	0.159961	0.039810	0.003046	0.001733	0.110366	0.000526	0.010653	0.006030	0.001693	0.016930
4-Dec-2029	0.125420	11.043700	17.284300	2.717970	38.768719	1.449370	0.016514	0.160700	0.039993	0.003060	0.001741	0.110876	0.000528	0.010702	0.006058	0.001701	0.017008
5-Dec-2029	0.125445	11.087300	17.352500	2.728710	38.921816	1.455080	0.016579	0.161334	0.040151	0.003072	0.001748	0.111316	0.000530	0.010744	0.006082	0.001708	0.017076
6-Dec-2029	0.125374	11.156300	17.460600	2.745720	39.164156	1.464150	0.016682	0.162338	0.040401	0.003091	0.001759	0.112011	0.000534	0.010811	0.006120	0.001718	0.017182
7-Dec-2029	0.125365	11.225900	17.569500	2.762860	39.408530	1.473270	0.016786	0.163351	0.040653	0.003110	0.001770	0.112711	0.000537	0.010878	0.006158	0.001729	0.017289
8-Dec-2029	0.125368	11.301200	17.687200	2.781380	39.672819	1.483140	0.016899	0.164445	0.040925	0.003131	0.001782	0.113468	0.000541	0.010951	0.006199	0.001740	0.017405
9-Dec-2029	0.125325	11.377500	17.806600	2.800160	39.940676	1.493150	0.017013	0.165555	0.041201	0.003153	0.001794	0.114236	0.000544	0.011025	0.006241	0.001752	0.017522
10-Dec-2029	0.125303	11.447400	17.916100	2.817390	40.186170	1.502330	0.017117	0.166573	0.041455	0.003172	0.001805	0.114939	0.000548	0.011093	0.006279	0.001763	0.017630
11-Dec-2029	0.125307	11.157100	17.461500	2.745970	39.167183	1.464210	0.016683	0.162347	0.040403	0.003092	0.001759	0.112031	0.000534	0.010812	0.006120	0.001718	0.017183
12-Dec-2029	0.125276	11.224500	17.567000	2.762560	39.403799	1.473050	0.016784	0.163327	0.040647	0.003110	0.001769	0.112709	0.000537	0.010877	0.006157	0.001729	0.017287
13-Dec-2029	0.125266	11.079100	17.338700	2.726980	38.894216	1.453870	0.016566	0.161203	0.040119	0.003071	0.001747	0.111288	0.000530	0.010737	0.006077	0.001706	0.017062
14-Dec-2029	0.125292	11.172300	17.483700	2.750170	39.222433	1.465960	0.016704	0.162548	0.040460	0.003097	0.001762	0.112258	0.000534	0.010828	0.006128	0.001721	0.017206
15-Dec-2029	0.125242	11.227700	17.570100	2.763860	39.417142	1.473190	0.016787	0.163351	0.040661	0.003112	0.001771	0.112825	0.000537	0.010882	0.006159	0.001729	0.017291
16-Dec-2029	0.125239	11.236700	17.584300	2.766070	39.448716	1.474380	0.016800	0.163483	0.040694	0.003115	0.001772	0.112913	0.000538	0.010890	0.006163	0.001730	0.017305
17-Dec-2029	0.125259	11.305400	17.691600	2.783040	39.690143	1.483360	0.016903	0.164480	0.040944	0.003134	0.001783	0.113611	0.000541	0.010957	0.006201	0.001741	0.017410

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Dec-2029	0.125246	11.374900	17.800400	2.800150	39.934143	1.492480	0.017007	0.165492	0.041195	0.003153	0.001794	0.114309	0.000544	0.011024	0.006239	0.001752	0.017517
19-Dec-2029	0.125239	11.442700	17.906400	2.816900	40.172416	1.501360	0.017108	0.166477	0.041442	0.003172	0.001805	0.114997	0.000547	0.011090	0.006276	0.001762	0.017622
20-Dec-2029	0.125257	11.531600	18.044900	2.838910	40.485037	1.512930	0.017240	0.167763	0.041765	0.003197	0.001819	0.115910	0.000552	0.011177	0.006325	0.001776	0.017758
21-Dec-2029	0.125226	11.585900	18.130500	2.852170	40.675228	1.520140	0.017322	0.168560	0.041961	0.003212	0.001827	0.116438	0.000554	0.011229	0.006355	0.001784	0.017842
22-Dec-2029	0.125222	11.638000	18.212000	2.864960	40.857991	1.526980	0.017400	0.169317	0.042149	0.003226	0.001835	0.116958	0.000557	0.011280	0.006384	0.001792	0.017923
23-Dec-2029	0.125225	11.709100	18.323300	2.882490	41.107717	1.536300	0.017506	0.170352	0.042407	0.003246	0.001847	0.117676	0.000560	0.011349	0.006423	0.001803	0.018032
24-Dec-2029	0.125200	11.754400	18.394400	2.893520	41.266252	1.542300	0.017574	0.171015	0.042569	0.003258	0.001854	0.118116	0.000562	0.011392	0.006447	0.001810	0.018102
25-Dec-2029	0.125202	11.802000	18.469000	2.905240	41.433372	1.548560	0.017645	0.171708	0.042742	0.003271	0.001861	0.118593	0.000565	0.011438	0.006474	0.001818	0.018175
26-Dec-2029	0.125200	11.868900	18.573800	2.921700	41.668204	1.557350	0.017746	0.172682	0.042984	0.003290	0.001872	0.119263	0.000568	0.011503	0.006510	0.001828	0.018278
27-Dec-2029	0.125184	11.914500	18.645300	2.932860	41.828024	1.563360	0.017814	0.173348	0.043148	0.003302	0.001879	0.119713	0.000570	0.011547	0.006535	0.001835	0.018349
28-Dec-2029	0.125190	11.964300	18.723200	2.945130	42.002902	1.569880	0.017888	0.174072	0.043329	0.003316	0.001887	0.120216	0.000572	0.011595	0.006563	0.001843	0.018425
29-Dec-2029	0.125179	12.022000	18.813600	2.959290	42.205290	1.577480	0.017975	0.174913	0.043537	0.003332	0.001896	0.120790	0.000575	0.011651	0.006594	0.001851	0.018514
30-Dec-2029	0.125173	12.058300	18.870400	2.968220	42.332705	1.582240	0.018029	0.175441	0.043669	0.003342	0.001901	0.121154	0.000577	0.011686	0.006614	0.001857	0.018570
31-Dec-2029	0.125181	12.128500	18.980000	2.985610	42.579606	1.591400	0.018134	0.176459	0.043924	0.003362	0.001913	0.121874	0.000580	0.011755	0.006653	0.001868	0.018678
1-Jan-2030	0.125169	12.195700	19.085100	3.002130	42.815434	1.600220	0.018234	0.177436	0.044167	0.003380	0.001923	0.122547	0.000583	0.011820	0.006690	0.001878	0.018782
2-Jan-2030	0.125162	12.206100	19.101600	3.004610	42.851616	1.601620	0.018250	0.177590	0.044204	0.003383	0.001925	0.122640	0.000584	0.011830	0.006695	0.001880	0.018798
3-Jan-2030	0.125175	12.269100	19.199800	3.020230	43.073250	1.609830	0.018344	0.178503	0.044433	0.003401	0.001935	0.123290	0.000587	0.011891	0.006730	0.001889	0.018894
4-Jan-2030	0.125166	12.339100	19.309200	3.037510	43.319199	1.618990	0.018448	0.179519	0.044687	0.003420	0.001946	0.124000	0.000590	0.011959	0.006768	0.001900	0.019002
5-Jan-2030	0.125165	12.348500	19.324300	3.039720	43.351771	1.620290	0.018463	0.179661	0.044720	0.003423	0.001947	0.124080	0.000591	0.011968	0.006773	0.001902	0.019017
6-Jan-2030	0.125182	12.428100	19.448300	3.059470	43.631863	1.630640	0.018581	0.180812	0.045010	0.003445	0.001960	0.124902	0.000595	0.012045	0.006817	0.001914	0.019139
7-Jan-2030	0.125171	12.462200	19.502100	3.067780	43.751231	1.635180	0.018632	0.181313	0.045132	0.003454	0.001965	0.125231	0.000596	0.012078	0.006836	0.001919	0.019192
8-Jan-2030	0.125167	12.498800	19.559500	3.076760	43.879601	1.639990	0.018687	0.181846	0.045264	0.003465	0.001971	0.125595	0.000598	0.012114	0.006856	0.001925	0.019248
9-Jan-2030	0.125176	12.582300	19.689600	3.097470	44.173385	1.650860	0.018811	0.183054	0.045568	0.003488	0.001984	0.126457	0.000602	0.012195	0.006901	0.001938	0.019377
10-Jan-2030	0.125165	12.624400	19.755600	3.107760	44.320882	1.656410	0.018875	0.183669	0.045720	0.003499	0.001991	0.126871	0.000604	0.012236	0.006925	0.001944	0.019442
11-Jan-2030	0.125156	12.647700	19.792400	3.113410	44.402329	1.659530	0.018910	0.184012	0.045803	0.003506	0.001995	0.127092	0.000605	0.012258	0.006937	0.001948	0.019478
12-Jan-2030	0.125172	12.726400	19.915100	3.132910	44.679144	1.669770	0.019027	0.185151	0.046090	0.003528	0.002007	0.127903	0.000609	0.012334	0.006981	0.001960	0.019599
13-Jan-2030	0.125169	12.776800	19.994000	3.145310	44.856056	1.676390	0.019102	0.185885	0.046272	0.003542	0.002015	0.128408	0.000611	0.012383	0.007008	0.001968	0.019676
14-Jan-2030	0.125162	12.800000	20.030700	3.150930	44.937130	1.679500	0.019137	0.186227	0.046355	0.003548	0.002019	0.128627	0.000612	0.012406	0.007021	0.001971	0.019712
15-Jan-2030	0.125174	12.878600	20.153200	3.170400	45.213571	1.689740	0.019254	0.187365	0.046641	0.003570	0.002031	0.129435	0.000616	0.012482	0.007064	0.001983	0.019833
16-Jan-2030	0.125175	12.922800	20.222500	3.181280	45.368743	1.695550	0.019321	0.188009	0.046801	0.003582	0.002038	0.129879	0.000618	0.012525	0.007088	0.001990	0.019901
17-Jan-2030	0.125169	12.949500	20.264500	3.187730	45.461974	1.699100	0.019361	0.188401	0.046896	0.003590	0.002042	0.130132	0.000619	0.012550	0.007103	0.001994	0.019942
18-Jan-2030	0.125179	13.022700	20.378800	3.205840	45.719331	1.708660	0.019470	0.189463	0.047162	0.003610	0.002054	0.130880	0.000623	0.012622	0.007143	0.002005	0.020055
19-Jan-2030	0.125180	13.073100	20.457700	3.218260	45.896325	1.715270	0.019545	0.190196	0.047345	0.003624	0.002062	0.131389	0.000625	0.012671	0.007171	0.002013	0.020132
20-Jan-2030	0.125177	13.124600	20.538500	3.230900	46.076972	1.722060	0.019623	0.190947	0.047531	0.003638	0.002070	0.131900	0.000628	0.012720	0.007199	0.002021	0.020212
21-Jan-2030	0.125181	13.173100	20.614300	3.242810	46.247122	1.728420	0.019695	0.191652	0.047706	0.003652	0.002077	0.132385	0.000630	0.012767	0.007226	0.002029	0.020286
22-Jan-2030	0.125182	13.228900	20.701600	3.256620	46.443324	1.735720	0.019778	0.192463	0.047908	0.003667	0.002086	0.132954	0.000633	0.012822	0.007256	0.002037	0.020372
23-Jan-2030	0.125177	13.279000	20.780000	3.268900	46.618993	1.742310	0.019853	0.193193	0.048089	0.003681	0.002094	0.133452	0.000635	0.012870	0.007284	0.002045	0.020450
24-Jan-2030	0.125183	13.332700	20.864100	3.282070	46.807316	1.749380	0.019934	0.193975	0.048283	0.003696	0.002103	0.133986	0.000638	0.012922	0.007313	0.002053	0.020532
25-Jan-2030	0.125179	13.352700	20.895700	3.286920	46.877228	1.752040	0.019964	0.194269	0.048354	0.003701	0.002106	0.134177	0.000639	0.012941	0.007324	0.002056	0.020563
26-Jan-2030	0.125173	13.412900	20.990000	3.301720	47.088494	1.759960	0.020054	0.195147	0.048572	0.003718	0.002115	0.134779	0.000642	0.012999	0.007357	0.002066	0.020656
27-Jan-2030	0.125171	13.473600	21.085100	3.316640	47.301503	1.767940	0.020145	0.196031	0.048792	0.003735	0.002125	0.135386	0.000645	0.013058	0.007391	0.002075	0.020749
28-Jan-2030	0.125168	13.521400	21.160000	3.328360	47.469122	1.774220	0.020216	0.196727	0.048964	0.003748	0.002132	0.135862	0.000647	0.013104	0.007417	0.002082	0.020823
29-Jan-2030	0.125161	13.581400	21.254100	3.343130	47.679765	1.782120	0.020306	0.197602	0.049181	0.003765	0.002142	0.136463	0.000650	0.013162	0.007450	0.002092	0.020915
30-Jan-2030	0.125161	13.663300	21.382200	3.363270	47.967206	1.792870	0.020429	0.198794	0.049478	0.003787	0.002154	0.137284	0.000654	0.013242	0.007495	0.002104	0.021042
31-Jan-2030	0.125159	13.742400	21.506000	3.382720	48.244814	1.803250	0.020547	0.199945	0.049764	0.003809	0.002167	0.138077	0.000657	0.013318	0.007538	0.002116	0.021163
1-Feb-2030	0.125155	13.825300	21.635800	3.403130	48.535863	1.814140	0.020671	0.201152	0.050064	0.003832	0.002180	0.138909	0.000661	0.013399	0.007583	0.002129	0.021291
2-Feb-2030	0.125153	13.905500	21.761300	3.422850	48.817330	1.824660	0.020791	0.202318	0.050354	0.003854	0.002193	0.139713	0.000665	0.013476	0.007627	0.002141	0.021415
3-Feb-2030	0.125150	13.995000	21.901900	3.444760	49.131037	1.836480	0.020925	0.203627	0.050678	0.003879	0.002207	0.140592	0.000670	0.013563	0.007677	0.002155	0.021553
4-Feb-2030	0.125147	14.141900	22.131700	3.480910	49.646712	1.855750	0.021145	0.205764	0.051209	0.003920	0.002230	0.142067	0.000677	0.013705	0.007757	0.002178	0.021779
5-Feb-2030	0.125144	14.294000	22.369800	3.518350	50.180683	1.875720	0.021372	0.207977	0.051760	0.003962	0.002254	0.143595	0.000684	0.013853	0.007841	0.002201	0.022013
6-Feb-2030	0.125143	14.445800	22.607300	3.555710	50.713576	1.895630	0.021599	0.210186	0.052310	0.004004	0.002278	0.145120	0.000691	0.014000	0.007924	0.002225	0.022247
7-Feb-2030	0.125142	14.594300	22.839800	3.592270	51.234935	1.915130	0.021821	0.212347	0.052848	0.004045	0.002301	0.146612	0.000698	0.014144	0.008005	0.002248	0.022476

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Feb-2030	0.125141	14.755900	23.092600	3.632030	51.802182	1.936320	0.022063	0.214697	0.053433	0.004090	0.002327	0.148235	0.000706	0.014300	0.008094	0.002272	0.022724
9-Feb-2030	0.125140	14.931800	23.367900	3.675340	52.419755	1.959410	0.022326	0.217257	0.054070	0.004139	0.002354	0.150003	0.000714	0.014471	0.008190	0.002300	0.022995
10-Feb-2030	0.125139	15.099900	23.631000	3.716710	53.009862	1.981470	0.022577	0.219703	0.054678	0.004185	0.002381	0.151691	0.000722	0.014634	0.008283	0.002325	0.023254
11-Feb-2030	0.125137	15.259900	23.881300	3.756090	53.571549	2.002460	0.022817	0.222030	0.055257	0.004230	0.002406	0.153298	0.000730	0.014789	0.008370	0.002350	0.023500
12-Feb-2030	0.125135	15.402300	24.104200	3.791150	54.071499	2.021150	0.023030	0.224103	0.055773	0.004269	0.002428	0.154729	0.000737	0.014927	0.008449	0.002372	0.023720
13-Feb-2030	0.125134	15.536800	24.314700	3.824240	54.543610	2.038800	0.023231	0.226059	0.056260	0.004306	0.002450	0.156080	0.000743	0.015057	0.008522	0.002393	0.023927
14-Feb-2030	0.125133	15.689100	24.553000	3.861730	55.078287	2.058790	0.023458	0.228276	0.056811	0.004349	0.002474	0.157610	0.000751	0.015204	0.008606	0.002416	0.024161
15-Feb-2030	0.125131	15.871600	24.838700	3.906660	55.719011	2.082750	0.023731	0.230932	0.057472	0.004399	0.002502	0.159444	0.000759	0.015381	0.008706	0.002444	0.024443
16-Feb-2030	0.125130	16.092600	25.184600	3.961050	56.494826	2.111740	0.024062	0.234147	0.058272	0.004460	0.002537	0.161663	0.000770	0.015596	0.008827	0.002478	0.024783
17-Feb-2030	0.125128	16.260600	25.447500	4.002400	57.084601	2.133790	0.024313	0.236592	0.058881	0.004507	0.002564	0.163351	0.000778	0.015758	0.008919	0.002504	0.025042
18-Feb-2030	0.125128	16.428500	25.710200	4.043720	57.674003	2.155820	0.024564	0.239035	0.059489	0.004553	0.002590	0.165037	0.000786	0.015921	0.009011	0.002530	0.025300
19-Feb-2030	0.125127	16.590900	25.964400	4.083700	58.244154	2.177140	0.024807	0.241398	0.060077	0.004598	0.002616	0.166669	0.000794	0.016078	0.009101	0.002555	0.025550
20-Feb-2030	0.125126	16.758800	26.227100	4.125010	58.833515	2.199160	0.025058	0.243840	0.060684	0.004645	0.002642	0.168355	0.000802	0.016241	0.009193	0.002581	0.025809
21-Feb-2030	0.125125	16.929100	26.493600	4.166920	59.431339	2.221510	0.025312	0.246318	0.061301	0.004692	0.002669	0.170065	0.000810	0.016406	0.009286	0.002607	0.026071
22-Feb-2030	0.125123	15.763500	24.669500	3.880090	55.339670	2.068550	0.023570	0.229358	0.057081	0.004369	0.002485	0.158365	0.000754	0.015277	0.008647	0.002428	0.024276
23-Feb-2030	0.125123	15.905100	24.891000	3.914930	55.836716	2.087130	0.023781	0.231418	0.057593	0.004409	0.002508	0.159787	0.000761	0.015414	0.008724	0.002449	0.024494
24-Feb-2030	0.125122	16.051900	25.120800	3.951070	56.352101	2.106390	0.024001	0.233554	0.058125	0.004449	0.002531	0.161262	0.000768	0.015556	0.008805	0.002472	0.024720
25-Feb-2030	0.125121	16.201200	25.354400	3.987810	56.876198	2.125980	0.024224	0.235726	0.058665	0.004491	0.002554	0.162761	0.000775	0.015701	0.008887	0.002495	0.024950
26-Feb-2030	0.125120	16.347800	25.583800	4.023890	57.390836	2.145220	0.024443	0.237859	0.059196	0.004531	0.002578	0.164234	0.000782	0.015843	0.008967	0.002518	0.025176
27-Feb-2030	0.125120	16.504800	25.829600	4.062550	57.942067	2.165820	0.024678	0.240144	0.059765	0.004575	0.002602	0.165812	0.000790	0.015995	0.009053	0.002542	0.025418
28-Feb-2030	0.125119	16.669100	26.086600	4.102970	58.518773	2.187370	0.024923	0.242533	0.060359	0.004620	0.002628	0.167461	0.000797	0.016154	0.009143	0.002567	0.025671
1-Mar-2030	0.125119	16.835100	26.346400	4.143830	59.101537	2.209160	0.025172	0.244949	0.060961	0.004666	0.002654	0.169129	0.000805	0.016315	0.009234	0.002593	0.025926
2-Mar-2030	0.125119	17.004000	26.610700	4.185400	59.694465	2.231320	0.025424	0.247406	0.061572	0.004713	0.002681	0.170826	0.000814	0.016479	0.009327	0.002619	0.026186
3-Mar-2030	0.125118	17.182000	26.889400	4.229240	60.319464	2.254690	0.025690	0.249997	0.062217	0.004762	0.002709	0.172615	0.000822	0.016651	0.009425	0.002646	0.026461
4-Mar-2030	0.125117	17.373600	27.189100	4.276380	60.992012	2.279820	0.025977	0.252783	0.062911	0.004816	0.002739	0.174539	0.000831	0.016837	0.009530	0.002676	0.026755
5-Mar-2030	0.125117	17.562400	27.484700	4.322870	61.654891	2.304600	0.026259	0.255532	0.063594	0.004868	0.002769	0.176437	0.000840	0.017020	0.009633	0.002705	0.027046
6-Mar-2030	0.125117	17.747300	27.774000	4.368390	62.304038	2.328870	0.026536	0.258222	0.064264	0.004919	0.002798	0.178294	0.000849	0.017199	0.009735	0.002733	0.027331
7-Mar-2030	0.125116	17.943500	28.081000	4.416670	62.992767	2.354610	0.026829	0.261076	0.064974	0.004974	0.002829	0.180265	0.000858	0.017389	0.009842	0.002763	0.027633
8-Mar-2030	0.125116	18.135400	28.381300	4.463900	63.666434	2.379780	0.027116	0.263868	0.065669	0.005027	0.002859	0.182193	0.000868	0.017575	0.009948	0.002793	0.027929
9-Mar-2030	0.125116	18.322100	28.673600	4.509870	64.321928	2.404290	0.027395	0.266585	0.066345	0.005078	0.002889	0.184069	0.000877	0.017756	0.010050	0.002822	0.028216
10-Mar-2030	0.125116	18.514600	28.974800	4.557240	64.997671	2.429550	0.027683	0.269386	0.067042	0.005132	0.002919	0.186002	0.000886	0.017943	0.010156	0.002851	0.028513
11-Mar-2030	0.125116	18.719400	29.295300	4.607650	65.716645	2.456430	0.027989	0.272366	0.067784	0.005189	0.002951	0.188060	0.000896	0.018141	0.010268	0.002883	0.028828
12-Mar-2030	0.125116	18.953400	29.661400	4.665240	66.538098	2.487130	0.028339	0.275769	0.068631	0.005253	0.002988	0.190410	0.000907	0.018368	0.010396	0.002919	0.029188
13-Mar-2030	0.125114	15.632500	24.464700	3.847750	54.879387	2.051400	0.023374	0.227455	0.056605	0.004333	0.002465	0.157037	0.000748	0.015150	0.008575	0.002407	0.024074
14-Mar-2030	0.125114	15.712700	24.590100	3.867480	55.160895	2.061920	0.023494	0.228621	0.056895	0.004355	0.002477	0.157842	0.000752	0.015227	0.008619	0.002420	0.024198
15-Mar-2030	0.125114	15.789500	24.710400	3.886390	55.430536	2.072000	0.023609	0.229739	0.057173	0.004376	0.002489	0.158614	0.000755	0.015302	0.008661	0.002432	0.024316
16-Mar-2030	0.125114	15.842000	24.792600	3.899320	55.614874	2.078900	0.023687	0.230504	0.057364	0.004391	0.002498	0.159141	0.000758	0.015353	0.008690	0.002440	0.024397
17-Mar-2030	0.125114	15.965500	24.985800	3.929700	56.048358	2.095090	0.023872	0.232300	0.057811	0.004425	0.002517	0.160381	0.000764	0.015472	0.008758	0.002459	0.024587
18-Mar-2030	0.125114	16.111900	25.214900	3.965730	56.562290	2.114310	0.024091	0.234430	0.058341	0.004466	0.002540	0.161852	0.000771	0.015614	0.008838	0.002481	0.024813
19-Mar-2030	0.125114	16.257700	25.443100	4.001620	57.074148	2.133440	0.024309	0.236551	0.058869	0.004506	0.002563	0.163316	0.000778	0.015755	0.008918	0.002504	0.025037
20-Mar-2030	0.125114	16.392300	25.653700	4.034750	57.546674	2.151100	0.024510	0.238510	0.059356	0.004543	0.002584	0.164668	0.000784	0.015886	0.008992	0.002524	0.025244
21-Mar-2030	0.125114	16.518300	25.850900	4.065770	57.989036	2.167640	0.024698	0.240343	0.059812	0.004578	0.002604	0.165934	0.000790	0.016008	0.009061	0.002544	0.025438
22-Mar-2030	0.125114	16.642300	26.045000	4.096300	58.424387	2.183910	0.024884	0.242148	0.060261	0.004613	0.002624	0.167180	0.000796	0.016128	0.009129	0.002563	0.025629
23-Mar-2030	0.125114	16.766700	26.239700	4.126910	58.861065	2.200240	0.025070	0.243958	0.060712	0.004647	0.002643	0.168430	0.000802	0.016249	0.009197	0.002582	0.025821
24-Mar-2030	0.125114	16.886500	26.427100	4.156390	59.281605	2.215950	0.025249	0.245700	0.061145	0.004680	0.002662	0.169633	0.000808	0.016365	0.009263	0.002601	0.026005
25-Mar-2030	0.125114	17.002700	26.609000	4.185000	59.689572	2.231210	0.025423	0.247392	0.061566	0.004713	0.002681	0.170800	0.000813	0.016477	0.009326	0.002618	0.026184
26-Mar-2030	0.125114	17.147300	26.835400	4.220600	60.197239	2.250190	0.025639	0.249496	0.062090	0.004753	0.002703	0.172253	0.000820	0.016618	0.009406	0.002641	0.026407
27-Mar-2030	0.125114	17.296700	27.069100	4.257360	60.721668	2.269780	0.025862	0.251669	0.062631	0.004794	0.002727	0.173753	0.000828	0.016762	0.009488	0.002664	0.026637
28-Mar-2030	0.125113	17.451900	27.312000	4.295560	61.266510	2.290150	0.026094	0.253928	0.063193	0.004837	0.002751	0.175313	0.000835	0.016913	0.009573	0.002688	0.026876
29-Mar-2030	0.125114	17.610800	27.560700	4.334670	61.824339	2.311000	0.026332	0.256239	0.063768	0.004881	0.002777	0.176909	0.000843	0.017067	0.009660	0.002712	0.027121
30-Mar-2030	0.125113	17.769700	27.809400	4.373780	62.382167	2.331860	0.026569	0.258551	0.064344	0.004925	0.002802	0.178505	0.000850	0.017221	0.009747	0.002737	0.027366
31-Mar-2030	0.125113	17.929500	28.059500	4.413130	62.943231	2.352830	0.026808	0.260877	0.064922	0.004970	0.002827	0.180111	0.000858	0.017376	0.009835	0.002761	0.027612

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Apr-2030	0.125113	18.064100	28.270100	4.446240	63.415674	2.370490	0.027010	0.262835	0.065410	0.005007	0.002848	0.181462	0.000864	0.017506	0.009909	0.002782	0.027819
2-Apr-2030	0.125113	18.041700	28.235100	4.440740	63.337092	2.367550	0.026976	0.262509	0.065328	0.005001	0.002844	0.181237	0.000863	0.017484	0.009896	0.002778	0.027785
3-Apr-2030	0.125113	18.000000	28.169800	4.430470	63.190675	2.362080	0.026914	0.261902	0.065177	0.004989	0.002838	0.180818	0.000861	0.017444	0.009874	0.002772	0.027720
4-Apr-2030	0.125113	17.964600	28.114300	4.421750	63.066373	2.357430	0.026861	0.261387	0.065049	0.004979	0.002832	0.180462	0.000859	0.017409	0.009854	0.002767	0.027666
5-Apr-2030	0.125113	17.934800	28.067700	4.414420	62.961777	2.353520	0.026816	0.260953	0.064941	0.004971	0.002828	0.180163	0.000858	0.017381	0.009838	0.002762	0.027620
6-Apr-2030	0.125113	17.909500	28.028200	4.408200	62.872989	2.350210	0.026779	0.260586	0.064850	0.004964	0.002824	0.179909	0.000857	0.017356	0.009824	0.002758	0.027581
7-Apr-2030	0.125113	17.904200	28.019800	4.406890	62.854360	2.349510	0.026771	0.260508	0.064831	0.004962	0.002823	0.179856	0.000857	0.017351	0.009821	0.002757	0.027573
8-Apr-2030	0.125113	17.899200	28.012000	4.405660	62.836810	2.348850	0.026763	0.260436	0.064812	0.004961	0.002822	0.179806	0.000856	0.017346	0.009818	0.002757	0.027565
9-Apr-2030	0.125113	17.890800	27.998900	4.403590	62.807311	2.347750	0.026751	0.260314	0.064782	0.004959	0.002821	0.179722	0.000856	0.017338	0.009814	0.002755	0.027552
10-Apr-2030	0.125113	17.878900	27.980200	4.400650	62.765490	2.346180	0.026733	0.260140	0.064739	0.004955	0.002819	0.179602	0.000855	0.017326	0.009807	0.002753	0.027534
11-Apr-2030	0.125113	17.863400	27.956100	4.396860	62.711179	2.344160	0.026710	0.259916	0.064683	0.004951	0.002816	0.179447	0.000855	0.017311	0.009799	0.002751	0.027510
12-Apr-2030	0.125113	17.844800	27.927000	4.392280	62.645875	2.341720	0.026682	0.259645	0.064616	0.004946	0.002813	0.179260	0.000854	0.017293	0.009788	0.002748	0.027481
13-Apr-2030	0.125113	17.823400	27.893400	4.387000	62.570696	2.338900	0.026650	0.259333	0.064538	0.004940	0.002810	0.179044	0.000853	0.017273	0.009777	0.002745	0.027448
14-Apr-2030	0.125113	17.800200	27.857000	4.381280	62.489210	2.335860	0.026615	0.258995	0.064454	0.004934	0.002806	0.178811	0.000852	0.017250	0.009764	0.002741	0.027413
15-Apr-2030	0.125113	17.746900	27.773700	4.368180	62.302175	2.328870	0.026535	0.258220	0.064261	0.004919	0.002798	0.178276	0.000849	0.017199	0.009735	0.002733	0.027331
16-Apr-2030	0.125113	17.740200	27.763300	4.366540	62.278691	2.327990	0.026525	0.258123	0.064237	0.004917	0.002797	0.178209	0.000849	0.017192	0.009731	0.002732	0.027320
17-Apr-2030	0.125113	17.729400	27.746400	4.363880	62.240770	2.326580	0.026509	0.257966	0.064198	0.004914	0.002795	0.178101	0.000848	0.017182	0.009725	0.002730	0.027304
18-Apr-2030	0.125113	17.715500	27.724500	4.360440	62.191895	2.324740	0.026488	0.257763	0.064147	0.004910	0.002793	0.177961	0.000848	0.017168	0.009717	0.002728	0.027282
19-Apr-2030	0.125113	17.697600	27.696600	4.356050	62.129121	2.322400	0.026462	0.257503	0.064083	0.004905	0.002790	0.177781	0.000847	0.017151	0.009708	0.002725	0.027255
20-Apr-2030	0.125113	17.679800	27.668800	4.351670	62.066638	2.320070	0.026435	0.257244	0.064018	0.004900	0.002787	0.177602	0.000846	0.017134	0.009698	0.002723	0.027227
21-Apr-2030	0.125113	17.656100	27.631600	4.345820	61.983368	2.316950	0.026400	0.256898	0.063932	0.004894	0.002784	0.177364	0.000845	0.017111	0.009685	0.002719	0.027191
22-Apr-2030	0.125113	17.637100	27.601900	4.341160	61.916736	2.314460	0.026371	0.256623	0.063864	0.004888	0.002781	0.177173	0.000844	0.017092	0.009674	0.002716	0.027161
23-Apr-2030	0.125113	17.615200	27.567600	4.335760	61.839814	2.311590	0.026339	0.256304	0.063784	0.004882	0.002777	0.176953	0.000843	0.017071	0.009662	0.002713	0.027128
24-Apr-2030	0.125113	17.587600	27.524400	4.328970	61.742936	2.307970	0.026297	0.255902	0.063684	0.004875	0.002773	0.176676	0.000841	0.017044	0.009647	0.002709	0.027085
25-Apr-2030	0.125113	17.558900	27.479600	4.321910	61.642199	2.304200	0.026254	0.255485	0.063580	0.004867	0.002768	0.176388	0.000840	0.017016	0.009632	0.002704	0.027041
26-Apr-2030	0.125113	17.537600	27.446100	4.316650	61.567352	2.301400	0.026222	0.255174	0.063503	0.004861	0.002765	0.176173	0.000839	0.016996	0.009620	0.002701	0.027008
27-Apr-2030	0.125113	17.515200	27.411100	4.311140	61.488729	2.298460	0.026189	0.254848	0.063422	0.004855	0.002761	0.175948	0.000838	0.016974	0.009608	0.002697	0.026974
28-Apr-2030	0.125113	17.487800	27.368200	4.304400	61.392556	2.294870	0.026148	0.254450	0.063323	0.004847	0.002757	0.175673	0.000837	0.016947	0.009593	0.002693	0.026932
29-Apr-2030	0.125113	17.461400	27.326900	4.297900	61.299868	2.291400	0.026109	0.254066	0.063227	0.004840	0.002753	0.175408	0.000835	0.016922	0.009578	0.002689	0.026891
30-Apr-2030	0.125127	17.436300	27.287600	4.291720	61.211744	2.288110	0.026071	0.253700	0.063136	0.004833	0.002749	0.175156	0.000834	0.016898	0.009564	0.002685	0.026852
1-May-2030	0.125273	17.396500	27.225300	4.281920	61.072007	2.282880	0.026011	0.253121	0.062992	0.004822	0.002743	0.174756	0.000832	0.016859	0.009542	0.002679	0.026791
2-May-2030	0.126104	17.281800	27.045800	4.253690	60.669350	2.267830	0.025840	0.251452	0.062577	0.004790	0.002725	0.173604	0.000827	0.016748	0.009480	0.002661	0.026614
3-May-2030	0.129466	16.897800	26.444900	4.159190	59.321351	2.217450	0.025266	0.245866	0.061187	0.004684	0.002664	0.169747	0.000808	0.016376	0.009269	0.002602	0.026023
4-May-2030	0.133439	16.520100	25.853800	4.066220	57.995384	2.167880	0.024701	0.240370	0.059819	0.004579	0.002605	0.165953	0.000790	0.016010	0.009062	0.002544	0.025441
5-May-2030	0.137728	16.391100	25.651900	4.034470	57.542524	2.150950	0.024508	0.238493	0.059352	0.004543	0.002584	0.164657	0.000784	0.015885	0.008991	0.002524	0.025243
6-May-2030	0.141710	16.272300	25.466000	4.005220	57.125429	2.135360	0.024331	0.236764	0.058922	0.004510	0.002566	0.163463	0.000779	0.015770	0.008926	0.002506	0.025060
7-May-2030	0.146351	16.213500	25.373900	3.990740	56.918977	2.127640	0.024243	0.235908	0.058708	0.004494	0.002556	0.162872	0.000776	0.015712	0.008894	0.002497	0.024969
8-May-2030	0.149834	16.169300	25.304800	3.979870	56.763847	2.121850	0.024177	0.235266	0.058549	0.004482	0.002549	0.162429	0.000774	0.015670	0.008869	0.002490	0.024901
9-May-2030	0.153401	16.128400	25.240700	3.969800	56.620251	2.116470	0.024115	0.234670	0.058400	0.004470	0.002543	0.162017	0.000772	0.015630	0.008847	0.002484	0.024838
10-May-2030	0.156941	16.081800	25.167800	3.958330	56.456658	2.110360	0.024046	0.233992	0.058232	0.004457	0.002535	0.161549	0.000769	0.015585	0.008821	0.002477	0.024766
11-May-2030	0.163638	16.018000	25.068000	3.942630	56.232696	2.101990	0.023950	0.233064	0.058001	0.004440	0.002525	0.160908	0.000766	0.015523	0.008786	0.002467	0.024668
12-May-2030	0.166868	15.968600	24.990700	3.930480	56.059311	2.095510	0.023877	0.232346	0.057822	0.004426	0.002518	0.160413	0.000764	0.015475	0.008759	0.002459	0.024592
13-May-2030	0.169350	15.895600	24.876400	3.912490	55.802947	2.085920	0.023767	0.231282	0.057557	0.004406	0.002506	0.159679	0.000760	0.015404	0.008719	0.002448	0.024479
14-May-2030	0.179224	15.817800	24.754600	3.893350	55.529862	2.075710	0.023651	0.230150	0.057276	0.004384	0.002494	0.158897	0.000757	0.015329	0.008676	0.002436	0.024360
15-May-2030	0.186432	15.749200	24.647300	3.876480	55.289097	2.066710	0.023548	0.229153	0.057028	0.004365	0.002483	0.158209	0.000753	0.015263	0.008639	0.002425	0.024254
16-May-2030	0.193961	15.639000	24.474900	3.849350	54.902206	2.052250	0.023384	0.227550	0.056629	0.004335	0.002466	0.157102	0.000748	0.015156	0.008578	0.002408	0.024084
17-May-2030	0.208900	15.519500	24.287900	3.819950	54.482746	2.036570	0.023205	0.225811	0.056196	0.004302	0.002447	0.155902	0.000743	0.015040	0.008513	0.002390	0.023900
18-May-2030	0.216182	15.408600	24.114300	3.792650	54.093407	2.022020	0.023039	0.224197	0.055795	0.004271	0.002429	0.154788	0.000737	0.014933	0.008452	0.002373	0.023730
19-May-2030	0.219919	15.240400	23.851000	3.751240	53.502885	1.999940	0.022788	0.221749	0.055185	0.004224	0.002403	0.153098	0.000729	0.014770	0.008360	0.002347	0.023470
20-May-2030	0.222395	15.086300	23.609800	3.713310	52.961902	1.979710	0.022557	0.219506	0.054628	0.004181	0.002379	0.151550	0.000722	0.014620	0.008275	0.002323	0.023233
21-May-2030	0.224693	14.731900	23.055200	3.626100	51.717834	1.933200	0.022027	0.214350	0.053345	0.004083	0.002323	0.147991	0.000705	0.014277	0.008081	0.002269	0.022687
22-May-2030	0.227475	14.371500	22.491100	3.537410	50.452690	1.885900	0.021488	0.209105	0.052041	0.003983	0.002266	0.144371	0.000688	0.013928	0.007883	0.002213	0.022132

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-May-2030	0.229566	14.140300	22.129300	3.480510	49.641069	1.855560	0.021143	0.205741	0.051204	0.003919	0.002229	0.142049	0.000677	0.013704	0.007756	0.002178	0.021776
24-May-2030	0.233769	13.777300	21.561200	3.391170	48.366756	1.807910	0.020600	0.200458	0.049890	0.003819	0.002172	0.138404	0.000659	0.013352	0.007557	0.002122	0.021217
25-May-2030	0.234168	13.429600	21.017000	3.305600	47.146172	1.762280	0.020080	0.195398	0.048631	0.003722	0.002117	0.134912	0.000643	0.013015	0.007367	0.002068	0.020682
26-May-2030	0.236581	13.103300	20.506200	3.225300	46.000726	1.719440	0.019592	0.190649	0.047450	0.003632	0.002066	0.131635	0.000627	0.012699	0.007187	0.002018	0.020179
27-May-2030	0.239634	12.860300	20.125800	3.165500	45.147698	1.687530	0.019228	0.187111	0.046571	0.003564	0.002028	0.129195	0.000615	0.012463	0.007054	0.001980	0.019805
28-May-2030	0.243273	12.624300	19.756400	3.107420	44.319233	1.656550	0.018875	0.183676	0.045717	0.003499	0.001991	0.126825	0.000604	0.012235	0.006925	0.001944	0.019441
29-May-2030	0.249218	12.520900	19.594600	3.081980	43.956281	1.642980	0.018721	0.182171	0.045343	0.003470	0.001974	0.125787	0.000599	0.012135	0.006868	0.001928	0.019282
30-May-2030	0.255458	12.381000	19.375400	3.047620	43.465456	1.624570	0.018511	0.180131	0.044838	0.003431	0.001952	0.124388	0.000592	0.011999	0.006791	0.001907	0.019066
31-May-2030	0.266267	12.298100	19.245600	3.027230	43.174489	1.613680	0.018387	0.178924	0.044539	0.003408	0.001939	0.123556	0.000588	0.011919	0.006746	0.001894	0.018939
1-Jun-2030	0.271997	12.234300	19.145900	3.011480	42.950322	1.605340	0.018292	0.177998	0.044306	0.003391	0.001929	0.122911	0.000585	0.011857	0.006711	0.001884	0.018841
2-Jun-2030	0.286762	12.122600	18.970600	2.984150	42.558862	1.590580	0.018124	0.176364	0.043907	0.003360	0.001912	0.121803	0.000580	0.011749	0.006649	0.001867	0.018668
3-Jun-2030	0.297386	12.053500	18.862000	2.967260	42.316766	1.581420	0.018020	0.175350	0.043663	0.003341	0.001901	0.121120	0.000577	0.011683	0.006611	0.001856	0.018562
4-Jun-2030	0.321355	11.910400	18.637300	2.932260	41.815315	1.562480	0.017805	0.173252	0.043157	0.003301	0.001879	0.119703	0.000570	0.011545	0.006533	0.001834	0.018342
5-Jun-2030	0.373731	11.706000	18.314400	2.882770	41.101129	1.535060	0.017495	0.170222	0.042460	0.003244	0.001848	0.117721	0.000560	0.011351	0.006420	0.001803	0.018028
6-Jun-2030	0.380786	11.517400	18.014400	2.837680	40.444514	1.509360	0.017205	0.167394	0.041844	0.003190	0.001821	0.115933	0.000551	0.011174	0.006316	0.001774	0.017739
7-Jun-2030	0.390307	11.386800	17.804700	2.807070	39.992354	1.491180	0.017002	0.165409	0.041449	0.003152	0.001803	0.114738	0.000544	0.011054	0.006244	0.001754	0.017540
8-Jun-2030	0.408469	11.251100	17.586500	2.775280	39.522600	1.472220	0.016790	0.163334	0.041053	0.003113	0.001785	0.113506	0.000537	0.010930	0.006168	0.001733	0.017333
9-Jun-2030	0.449919	11.104400	17.346000	2.742230	39.020190	1.450870	0.016555	0.161031	0.040670	0.003070	0.001768	0.112284	0.000530	0.010802	0.006086	0.001711	0.017111
10-Jun-2030	0.514424	10.933300	17.070200	2.702360	38.428769	1.426850	0.016288	0.158412	0.040164	0.003021	0.001745	0.110745	0.000521	0.010646	0.005991	0.001685	0.016851
11-Jun-2030	0.593005	10.781200	16.817400	2.669070	37.911887	1.403760	0.016034	0.155907	0.039818	0.002974	0.001729	0.109524	0.000513	0.010517	0.005906	0.001662	0.016618
12-Jun-2030	0.679673	10.545600	16.429200	2.616670	37.107810	1.369290	0.015653	0.152182	0.039296	0.002904	0.001705	0.107565	0.000501	0.010313	0.005774	0.001626	0.016259
13-Jun-2030	0.746208	10.388500	16.174100	2.581290	36.569837	1.346520	0.015404	0.149725	0.039016	0.002858	0.001691	0.106389	0.000493	0.010176	0.005686	0.001602	0.016023
14-Jun-2030	0.799255	10.243800	15.929400	2.549990	36.079627	1.323870	0.015159	0.147300	0.038711	0.002814	0.001677	0.105234	0.000485	0.010057	0.005604	0.001581	0.015806
15-Jun-2030	0.820799	10.116100	15.714000	2.523500	35.651675	1.303960	0.014943	0.145166	0.038454	0.002775	0.001664	0.104310	0.000478	0.009955	0.005532	0.001561	0.015613
16-Jun-2030	0.844412	9.956800	15.441900	2.490890	35.119615	1.278830	0.014672	0.142478	0.038196	0.002726	0.001650	0.103221	0.000469	0.009831	0.005441	0.001537	0.015371
17-Jun-2030	0.877155	9.819690	15.206200	2.461910	34.657911	1.255950	0.014426	0.140032	0.037953	0.002681	0.001639	0.102335	0.000461	0.009720	0.005363	0.001516	0.015163
18-Jun-2030	0.922936	9.666560	14.947100	2.429200	34.140846	1.232170	0.014171	0.137501	0.037677	0.002636	0.001627	0.101374	0.000453	0.009597	0.005277	0.001494	0.014936
19-Jun-2030	0.988657	9.527510	14.708000	2.401080	33.677840	1.209300	0.013923	0.135059	0.037652	0.002591	0.001614	0.100444	0.000445	0.009489	0.005197	0.001472	0.014721
20-Jun-2030	1.054450	9.378040	14.452200	2.369910	33.176255	1.185460	0.013669	0.132529	0.037540	0.002547	0.001602	0.099549	0.000437	0.009372	0.005113	0.001450	0.014498
21-Jun-2030	1.133488	9.233180	14.199100	2.341330	32.696847	1.161040	0.013408	0.129941	0.037352	0.002501	0.001592	0.098788	0.000429	0.009265	0.005030	0.001428	0.014276
22-Jun-2030	1.224164	9.077760	13.931500	2.309350	32.177070	1.135910	0.013141	0.127276	0.037276	0.002454	0.001580	0.097962	0.000420	0.009149	0.004942	0.001404	0.014043
23-Jun-2030	1.322369	8.969500	13.743400	2.287560	31.817014	1.118020	0.012950	0.125389	0.037275	0.002421	0.001571	0.097272	0.000414	0.009065	0.004880	0.001388	0.013880
24-Jun-2030	1.420432	8.876270	13.579900	2.269070	31.508076	1.102370	0.012785	0.123741	0.037129	0.002393	0.001564	0.096673	0.000409	0.008997	0.004827	0.001374	0.013740
25-Jun-2030	1.524015	8.776350	13.409500	2.249060	31.176175	1.087060	0.012619	0.122112	0.037115	0.002363	0.001556	0.096104	0.000403	0.008923	0.004770	0.001359	0.013589
26-Jun-2030	1.646409	8.686130	13.254400	2.231210	30.877389	1.072230	0.012463	0.120550	0.037172	0.002336	0.001550	0.095657	0.000398	0.008857	0.004719	0.001345	0.013454
27-Jun-2030	1.749079	8.573650	13.059100	2.207780	30.500042	1.053580	0.012267	0.118587	0.037248	0.002303	0.001543	0.095099	0.000392	0.008772	0.004655	0.001329	0.013287
28-Jun-2030	1.870646	8.477300	12.890800	2.187150	30.174502	1.037540	0.012098	0.116898	0.037283	0.002275	0.001537	0.094602	0.000386	0.008694	0.004600	0.001314	0.013141
29-Jun-2030	1.997178	8.355270	12.678700	2.162300	29.767461	1.017510	0.011886	0.114793	0.037002	0.002239	0.001529	0.094026	0.000379	0.008605	0.004531	0.001296	0.012958
30-Jun-2030	2.162994	8.253600	12.500500	2.143510	29.436213	1.000590	0.011709	0.113016	0.036769	0.002210	0.001521	0.093518	0.000374	0.008538	0.004473	0.001281	0.012806
1-Jul-2030	4.051367	6.635680	9.711640	1.804370	23.999689	0.739253	0.008919	0.085399	0.032709	0.001738	0.001388	0.083694	0.000284	0.007302	0.003561	0.001036	0.010357
2-Jul-2030	5.378713	6.588740	9.620070	1.793100	23.836070	0.730268	0.008820	0.084414	0.032646	0.001730	0.001377	0.083433	0.000281	0.007292	0.003537	0.001028	0.010282
3-Jul-2030	6.382826	6.510940	9.469980	1.779730	23.586745	0.715426	0.008674	0.082948	0.032606	0.001716	0.001375	0.083676	0.000276	0.007252	0.003493	0.001016	0.010160
4-Jul-2030	7.868377	6.560000	9.554990	1.786740	23.738115	0.724240	0.008766	0.083872	0.032696	0.001739	0.001376	0.084155	0.000278	0.007297	0.003524	0.001023	0.010231
5-Jul-2030	10.026030	6.758360	9.911660	1.816790	24.357166	0.760136	0.009128	0.087493	0.033025	0.001805	0.001381	0.085575	0.000290	0.007455	0.003646	0.001053	0.010529
6-Jul-2030	11.060911	6.662230	9.733530	1.802670	24.058983	0.742291	0.008952	0.085727	0.032859	0.001780	0.001379	0.084973	0.000284	0.007384	0.003587	0.001038	0.010380
7-Jul-2030	11.063326	6.760160	9.910700	1.817990	24.366602	0.760031	0.009130	0.087504	0.032997	0.001812	0.001381	0.085342	0.000290	0.007458	0.003646	0.001053	0.010528
8-Jul-2030	12.368606	6.953680	10.262800	1.847730	24.972291	0.795323	0.009483	0.091033	0.033280	0.001871	0.001386	0.085946	0.000302	0.007605	0.003764	0.001082	0.010820
9-Jul-2030	14.161172	6.989820	10.328200	1.854210	25.089217	0.801778	0.009547	0.091674	0.033288	0.001883	0.001387	0.086094	0.000304	0.007628	0.003785	0.001087	0.010873
10-Jul-2030	15.301983	7.116370	10.556800	1.873840	25.486049	0.824691	0.009777	0.093972	0.033479	0.001924	0.001390	0.086586	0.000312	0.007726	0.003862	0.001106	0.011063
11-Jul-2030	15.313445	7.386890	11.051000	1.915140	26.331611	0.874281	0.010272	0.098920	0.033863	0.002006	0.001396	0.087331	0.000328	0.007927	0.004026	0.001147	0.011473
12-Jul-2030	14.758600	7.438180	11.144100	1.923370	26.493573	0.883535	0.010365	0.099848	0.033936	0.002021	0.001397	0.087497	0.000332	0.007965	0.004056	0.001155	0.011551
13-Jul-2030	15.419106	7.223140	10.753200	1.891260	25.824389	0.844232	0.009971	0.095911	0.033573	0.001954	0.001393	0.086810	0.000318	0.007798	0.003925	0.001122	0.011224

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Jul-2030	15.647926	7.093510	10.517100	1.873250	25.426538	0.820307	0.009732	0.093504	0.033289	0.001915	0.001390	0.086432	0.000311	0.007692	0.003844	0.001102	0.011025
15-Jul-2030	15.858155	7.071100	10.468900	1.870790	25.360450	0.815419	0.009688	0.093054	0.033281	0.001916	0.001391	0.087125	0.000309	0.007684	0.003831	0.001099	0.010986
16-Jul-2030	15.051798	7.201200	10.706700	1.890870	25.767999	0.839254	0.009925	0.095434	0.033449	0.001955	0.001394	0.087149	0.000317	0.007779	0.003909	0.001118	0.011184
17-Jul-2030	14.008000	7.250160	10.795800	1.898900	25.923320	0.848136	0.010014	0.096318	0.033493	0.001970	0.001395	0.087317	0.000320	0.007813	0.003939	0.001126	0.011257
18-Jul-2030	13.460217	7.280570	10.851600	1.904270	26.021367	0.853630	0.010068	0.096860	0.033501	0.001979	0.001396	0.087391	0.000322	0.007832	0.003956	0.001130	0.011302
19-Jul-2030	12.499989	7.350240	10.977300	1.915420	26.241249	0.866221	0.010195	0.098124	0.033583	0.002002	0.001398	0.087696	0.000326	0.007884	0.003998	0.001141	0.011405
20-Jul-2030	13.598077	7.565400	11.369900	1.948820	26.916045	0.905526	0.010587	0.102043	0.033870	0.002067	0.001403	0.088301	0.000339	0.008043	0.004128	0.001173	0.011731
21-Jul-2030	14.362164	7.543370	11.325600	1.946780	26.852635	0.900995	0.010545	0.101609	0.033813	0.002066	0.001403	0.088647	0.000338	0.008028	0.004114	0.001169	0.011692
22-Jul-2030	14.753043	7.599480	11.423800	1.956120	27.031204	0.910814	0.010645	0.102613	0.033888	0.002087	0.001405	0.088937	0.000341	0.008073	0.004148	0.001177	0.011774
23-Jul-2030	14.959855	7.594440	11.418500	1.955480	27.015983	0.910195	0.010636	0.102527	0.033842	0.002081	0.001405	0.088679	0.000341	0.008062	0.004144	0.001177	0.011769
24-Jul-2030	14.729070	7.732680	11.668700	1.977420	27.451518	0.935244	0.010888	0.105036	0.034018	0.002126	0.001408	0.089218	0.000349	0.008165	0.004227	0.001198	0.011976
25-Jul-2030	14.900566	7.674990	11.564500	1.969230	27.273739	0.924701	0.010781	0.103971	0.033893	0.002107	0.001407	0.088996	0.000346	0.008117	0.004191	0.001189	0.011888
26-Jul-2030	14.228887	7.723530	11.653600	1.977190	27.427723	0.933567	0.010869	0.104851	0.033931	0.002121	0.001408	0.089110	0.000349	0.008150	0.004220	0.001196	0.011961
27-Jul-2030	13.792349	7.842920	11.871500	1.995690	27.802023	0.955393	0.011087	0.107027	0.034090	0.002158	0.001411	0.089451	0.000356	0.008239	0.004292	0.001214	0.012141
28-Jul-2030	13.177372	8.062450	12.272500	2.029260	28.488430	0.995632	0.011489	0.111045	0.034401	0.002224	0.001415	0.090064	0.000369	0.008402	0.004426	0.001247	0.012474
29-Jul-2030	13.675974	7.895300	11.965000	2.005690	27.973996	0.964599	0.011180	0.107948	0.034084	0.002176	0.001412	0.089763	0.000359	0.008272	0.004322	0.001222	0.012216
30-Jul-2030	13.619515	7.955320	12.074400	2.015270	28.163316	0.975506	0.011289	0.109032	0.034155	0.002195	0.001414	0.089941	0.000363	0.008315	0.004358	0.001231	0.012306
31-Jul-2030	13.391681	8.124770	12.383900	2.041110	28.692842	1.006560	0.011599	0.112133	0.034396	0.002246	0.001417	0.090406	0.000373	0.008442	0.004461	0.001256	0.012563
1-Aug-2030	14.383570	8.437560	12.954400	2.089010	29.671131	1.063790	0.012170	0.117847	0.034842	0.002341	0.001424	0.091320	0.000392	0.008676	0.004651	0.001304	0.013036
2-Aug-2030	14.825574	8.321570	12.742900	2.073040	29.315739	1.042380	0.011955	0.115692	0.034598	0.002306	0.001422	0.091018	0.000385	0.008581	0.004579	0.001286	0.012857
3-Aug-2030	15.090555	8.181120	12.485700	2.052940	28.882264	1.016430	0.011695	0.113085	0.034331	0.002265	0.001420	0.090699	0.000376	0.008470	0.004492	0.001264	0.012641
4-Aug-2030	15.623770	8.360490	12.814000	2.080400	29.443231	1.049340	0.012023	0.116363	0.034576	0.002319	0.001423	0.091154	0.000387	0.008603	0.004601	0.001291	0.012913
5-Aug-2030	14.766087	8.266550	12.644400	2.066930	29.153193	1.032170	0.011849	0.114620	0.034383	0.002288	0.001421	0.090793	0.000382	0.008525	0.004542	0.001277	0.012770
6-Aug-2030	13.947887	8.292770	12.692800	2.071690	29.238266	1.036950	0.011895	0.115081	0.034369	0.002296	0.001422	0.090865	0.000383	0.008540	0.004557	0.001281	0.012809
7-Aug-2030	14.605819	8.348410	12.795700	2.080990	29.415497	1.047140	0.011995	0.116075	0.034394	0.002312	0.001423	0.090953	0.000387	0.008575	0.004590	0.001289	0.012892
8-Aug-2030	15.347026	8.342390	12.782600	2.083070	29.409030	1.045490	0.011976	0.115869	0.034320	0.002314	0.001424	0.091164	0.000386	0.008560	0.004583	0.001288	0.012876
9-Aug-2030	16.045532	8.627660	13.302600	2.125770	30.297188	1.097820	0.012499	0.121111	0.034707	0.002402	0.001430	0.091997	0.000404	0.008778	0.004757	0.001331	0.013308
10-Aug-2030	16.664915	8.618260	13.285800	2.124440	30.268239	1.096120	0.012482	0.120938	0.034681	0.002398	0.001430	0.091951	0.000403	0.008770	0.004752	0.001329	0.013294
11-Aug-2030	16.450540	8.842900	13.694900	2.160260	30.976672	1.136990	0.012889	0.124998	0.034956	0.002468	0.001435	0.092691	0.000417	0.008933	0.004886	0.001363	0.013632
12-Aug-2030	17.476881	8.738410	13.502700	2.145240	30.653908	1.117630	0.012695	0.123055	0.034757	0.002439	0.001433	0.092606	0.000410	0.008852	0.004822	0.001347	0.013471
13-Aug-2030	17.562487	8.903580	13.805100	2.171520	31.174559	1.147840	0.012994	0.126046	0.034924	0.002489	0.001436	0.092976	0.000420	0.008969	0.004921	0.001372	0.013719
14-Aug-2030	17.146500	8.891850	13.783400	2.169750	31.137980	1.145670	0.012972	0.125825	0.034902	0.002486	0.001436	0.092952	0.000420	0.008960	0.004914	0.001370	0.013701
15-Aug-2030	16.375728	8.788870	13.600100	2.155750	30.823187	1.126950	0.012781	0.123905	0.034628	0.002449	0.001434	0.092401	0.000414	0.008868	0.004849	0.001355	0.013545
16-Aug-2030	16.218987	8.731080	13.495300	2.147390	30.644459	1.116380	0.012674	0.122835	0.034501	0.002431	0.001433	0.092199	0.000410	0.008821	0.004813	0.001346	0.013457
17-Aug-2030	16.040268	8.983110	13.955600	2.185780	31.431868	1.162590	0.013135	0.127444	0.034858	0.002508	0.001438	0.092909	0.000425	0.009009	0.004966	0.001384	0.013838
18-Aug-2030	15.776434	9.014590	14.014000	2.191620	31.534522	1.168270	0.013190	0.127996	0.034874	0.002516	0.001439	0.092956	0.000427	0.009028	0.004984	0.001389	0.013887
19-Aug-2030	15.244796	8.741810	13.517200	2.151660	30.688835	1.118190	0.012687	0.122953	0.034358	0.002433	0.001434	0.092147	0.000411	0.008813	0.004816	0.001347	0.013469
20-Aug-2030	14.725162	8.779600	13.586100	2.158300	30.810541	1.124990	0.012753	0.123614	0.034371	0.002445	0.001435	0.092279	0.000413	0.008837	0.004838	0.001352	0.013525
21-Aug-2030	14.648649	8.871360	13.753600	2.172900	31.099788	1.141730	0.012919	0.125273	0.034470	0.002473	0.001437	0.092566	0.000419	0.008903	0.004893	0.001366	0.013662
22-Aug-2030	14.714591	9.082600	14.139600	2.205430	31.761213	1.180440	0.013304	0.129127	0.034752	0.002537	0.001441	0.093159	0.000432	0.009058	0.005021	0.001398	0.013982
23-Aug-2030	15.003111	9.364060	14.652300	2.249100	32.643852	1.231820	0.013816	0.134240	0.035136	0.002625	0.001447	0.094131	0.000449	0.009267	0.005191	0.001441	0.014406
24-Aug-2030	15.293832	9.397360	14.712000	2.255210	32.752163	1.237710	0.013873	0.134807	0.035130	0.002637	0.001448	0.094262	0.000451	0.009289	0.005211	0.001445	0.014453
25-Aug-2030	15.128840	9.256210	14.454600	2.234750	32.315457	1.211720	0.013613	0.132195	0.034889	0.002594	0.001445	0.093861	0.000442	0.009178	0.005124	0.001424	0.014239
26-Aug-2030	14.352528	9.092460	14.156400	2.210780	31.807865	1.181680	0.013310	0.129166	0.034563	0.002545	0.001442	0.093386	0.000432	0.009048	0.005023	0.001399	0.013987
27-Aug-2030	13.909357	9.163010	14.285400	2.222060	32.030479	1.194540	0.013438	0.130437	0.034638	0.002566	0.001444	0.093582	0.000437	0.009098	0.005065	0.001409	0.014093
28-Aug-2030	13.665560	9.427680	14.768700	2.262580	32.858221	1.243020	0.013921	0.135272	0.035013	0.002646	0.001449	0.094326	0.000453	0.009296	0.005226	0.001449	0.014494
29-Aug-2030	13.491913	9.466310	14.839600	2.269530	32.983301	1.250000	0.013988	0.135942	0.035009	0.002658	0.001450	0.094446	0.000455	0.009319	0.005248	0.001455	0.014550
30-Aug-2030	13.670474	9.491040	14.883900	2.275010	33.067618	1.254240	0.014028	0.136325	0.034970	0.002668	0.001451	0.094618	0.000457	0.009330	0.005261	0.001458	0.014583
31-Aug-2030	13.952947	9.409230	14.733500	2.263540	32.816105	1.239020	0.013875	0.134789	0.034810	0.002645	0.001450	0.094479	0.000451	0.009266	0.005211	0.001446	0.014457
1-Sep-2030	12.881902	9.538910	14.971500	2.283290	33.221246	1.262910	0.014112	0.137167	0.034972	0.002683	0.001452	0.094778	0.000459	0.009361	0.005289	0.001465	0.014654
2-Sep-2030	12.055647	9.565590	15.019900	2.287920	33.306933	1.267680	0.014159	0.137633	0.034984	0.002691	0.001453	0.094882	0.000461	0.009379	0.005305	0.001469	0.014693
3-Sep-2030	12.037538	9.749950	15.356700	2.316250	33.883943	1.301520	0.014495	0.140996	0.035210	0.002749	0.001457	0.095435	0.000472	0.009514	0.005416	0.001497	0.014971

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4-Sep-2030	11.720981	9.444990	14.800000	2.270340	32.933400	1.245570	0.013936	0.135402	0.034738	0.002657	0.001450	0.094629	0.000454	0.009283	0.005231	0.001451	0.014508
5-Sep-2030	11.258085	9.519450	14.935900	2.282420	33.169072	1.259170	0.014070	0.136741	0.034798	0.002681	0.001452	0.094869	0.000458	0.009335	0.005275	0.001462	0.014618
6-Sep-2030	11.277998	10.039600	15.886600	2.361410	34.793168	1.354680	0.015022	0.146264	0.035536	0.002839	0.001462	0.096310	0.000490	0.009724	0.005591	0.001541	0.015405
7-Sep-2030	11.460666	9.836960	15.517900	2.330960	34.161782	1.317670	0.014651	0.142553	0.035202	0.002777	0.001458	0.095710	0.000478	0.009568	0.005468	0.001510	0.015097
8-Sep-2030	11.028628	9.544010	14.983000	2.286940	33.249012	1.264010	0.014114	0.137175	0.034720	0.002692	0.001451	0.094987	0.000460	0.009345	0.005289	0.001465	0.014650
9-Sep-2030	10.264094	9.618970	15.120900	2.298170	33.482432	1.277870	0.014253	0.138563	0.034831	0.002713	0.001453	0.095122	0.000465	0.009400	0.005335	0.001476	0.014765
10-Sep-2030	10.035291	9.859800	15.560800	2.334800	34.234627	1.322030	0.014695	0.142986	0.035200	0.002785	0.001458	0.095770	0.000479	0.009581	0.005481	0.001513	0.015131
11-Sep-2030	10.141413	10.124600	16.044500	2.375110	35.061829	1.370610	0.015178	0.147820	0.035559	0.002866	0.001463	0.096521	0.000495	0.009779	0.005642	0.001553	0.015531
12-Sep-2030	10.192721	10.453600	16.645400	2.425250	36.089819	1.430910	0.015779	0.153837	0.036029	0.002966	0.001470	0.097444	0.000515	0.010025	0.005842	0.001603	0.016029
13-Sep-2030	9.748412	9.970600	15.766000	2.352130	34.582660	1.342700	0.014897	0.145011	0.035273	0.002819	0.001459	0.096022	0.000486	0.009656	0.005548	0.001530	0.015296
14-Sep-2030	9.500274	9.982110	15.787500	2.354080	34.619430	1.344850	0.014918	0.145218	0.035271	0.002822	0.001459	0.096042	0.000487	0.009663	0.005554	0.001531	0.015313
15-Sep-2030	9.612575	9.916320	15.669000	2.344470	34.415579	1.333010	0.014798	0.144012	0.035118	0.002803	0.001457	0.095857	0.000483	0.009608	0.005514	0.001521	0.015211
16-Sep-2030	9.577904	10.211200	16.207800	2.389270	35.336380	1.387100	0.015339	0.149427	0.035565	0.002892	0.001463	0.096641	0.000501	0.009830	0.005693	0.001566	0.015659
17-Sep-2030	9.595051	10.214200	16.213100	2.389940	35.346630	1.387640	0.015344	0.149476	0.035559	0.002894	0.001463	0.096686	0.000501	0.009831	0.005695	0.001566	0.015663
18-Sep-2030	9.305952	10.318900	16.404200	2.406020	35.674284	1.406870	0.015534	0.151379	0.035678	0.002927	0.001465	0.097033	0.000507	0.009908	0.005758	0.001582	0.015820
19-Sep-2030	8.933875	10.398600	16.550400	2.418210	35.923493	1.421540	0.015680	0.152844	0.035787	0.002951	0.001467	0.097224	0.000512	0.009967	0.005806	0.001594	0.015941
20-Sep-2030	8.482624	10.455500	16.655500	2.426880	36.101275	1.432150	0.015785	0.153893	0.035842	0.002968	0.001467	0.097347	0.000516	0.010007	0.005841	0.001603	0.016026
21-Sep-2030	8.201404	10.549900	16.828400	2.441300	36.396374	1.449530	0.015958	0.155623	0.035962	0.002997	0.001469	0.097611	0.000522	0.010076	0.005898	0.001617	0.016169
22-Sep-2030	7.905370	10.629500	16.973800	2.453640	36.645951	1.464090	0.016105	0.157092	0.036091	0.003020	0.001471	0.097812	0.000527	0.010136	0.005946	0.001629	0.016290
23-Sep-2030	7.765204	10.791300	17.270000	2.478490	37.152298	1.493860	0.016400	0.160046	0.036283	0.003070	0.001474	0.098271	0.000536	0.010254	0.006044	0.001653	0.016534
24-Sep-2030	7.522189	10.829400	17.339700	2.484440	37.271936	1.500840	0.016470	0.160747	0.036341	0.003081	0.001475	0.098366	0.000539	0.010282	0.006067	0.001659	0.016592
25-Sep-2030	7.446079	10.610100	16.941000	2.451280	36.587791	1.460830	0.016070	0.156742	0.035990	0.003014	0.001470	0.097686	0.000525	0.010114	0.005934	0.001626	0.016259
26-Sep-2030	7.272355	10.580400	16.888300	2.446740	36.494934	1.455630	0.016015	0.156196	0.035893	0.003005	0.001469	0.097583	0.000524	0.010087	0.005915	0.001621	0.016212
27-Sep-2030	6.500745	10.487600	16.720600	2.432840	36.205972	1.438850	0.015846	0.154505	0.035718	0.002977	0.001466	0.097288	0.000518	0.010013	0.005858	0.001607	0.016070
28-Sep-2030	5.771589	10.514600	16.769500	2.437190	36.291305	1.443700	0.015897	0.155007	0.035797	0.002984	0.001467	0.097346	0.000520	0.010034	0.005875	0.001611	0.016113
29-Sep-2030	5.481236	10.525800	16.792400	2.439100	36.327136	1.446090	0.015917	0.155205	0.035715	0.002989	0.001466	0.097339	0.000521	0.010035	0.005881	0.001613	0.016126
30-Sep-2030	4.919588	10.523200	16.788200	2.439020	36.320315	1.445580	0.015912	0.155161	0.035716	0.002986	0.001467	0.097273	0.000520	0.010032	0.005879	0.001612	0.016124
1-Oct-2030	4.277409	10.452000	16.659000	2.428090	36.097519	1.432700	0.015783	0.153866	0.035585	0.002965	0.001465	0.097082	0.000516	0.009977	0.005836	0.001601	0.016015
2-Oct-2030	3.366343	10.375500	16.520400	2.416020	35.856794	1.418930	0.015644	0.152482	0.035458	0.002943	0.001462	0.096870	0.000511	0.009919	0.005790	0.001590	0.015898
3-Oct-2030	2.588413	10.330600	16.438500	2.408980	35.715688	1.410790	0.015564	0.151677	0.035401	0.002930	0.001461	0.096809	0.000509	0.009886	0.005763	0.001583	0.015830
4-Oct-2030	1.579118	10.297800	16.377600	2.404150	35.613896	1.404680	0.015503	0.151074	0.035365	0.002921	0.001461	0.096719	0.000507	0.009862	0.005743	0.001578	0.015780
5-Oct-2030	0.862737	10.262000	16.312500	2.398480	35.501155	1.398230	0.015440	0.150440	0.035330	0.002910	0.001460	0.096625	0.000505	0.009836	0.005721	0.001573	0.015727
6-Oct-2030	0.475940	10.260300	16.309500	2.398130	35.495468	1.397880	0.015437	0.150408	0.035328	0.002909	0.001460	0.096567	0.000504	0.009835	0.005720	0.001573	0.015725
7-Oct-2030	0.143591	10.228400	16.251500	2.393050	35.394895	1.392150	0.015380	0.149839	0.035288	0.002899	0.001459	0.096485	0.000503	0.009812	0.005701	0.001568	0.015677
8-Oct-2030	0.068566	10.188300	16.180600	2.386100	35.266145	1.385300	0.015310	0.149151	0.035213	0.002889	0.001457	0.096451	0.000500	0.009780	0.005677	0.001562	0.015616
9-Oct-2030	0.080931	10.195600	16.193500	2.387320	35.289397	1.386610	0.015323	0.149274	0.035208	0.002892	0.001457	0.096472	0.000501	0.009785	0.005682	0.001563	0.015626
10-Oct-2030	0.051768	10.180100	16.165900	2.384630	35.239616	1.383940	0.015296	0.149007	0.035186	0.002887	0.001456	0.096406	0.000500	0.009773	0.005673	0.001560	0.015602
11-Oct-2030	0.050183	10.156500	16.122800	2.380950	35.165533	1.379670	0.015253	0.148580	0.035140	0.002881	0.001456	0.096342	0.000498	0.009755	0.005658	0.001557	0.015566
12-Oct-2030	0.038163	10.148000	16.107700	2.379450	35.138131	1.378220	0.015238	0.148435	0.035123	0.002878	0.001455	0.096261	0.000498	0.009749	0.005653	0.001555	0.015553
13-Oct-2030	0.032577	10.145000	16.103200	2.378710	35.127593	1.377880	0.015234	0.148392	0.035103	0.002878	0.001454	0.096257	0.000498	0.009745	0.005652	0.001555	0.015548
14-Oct-2030	0.021481	10.117100	16.052700	2.374130	35.039066	1.372890	0.015184	0.147899	0.035068	0.002870	0.001454	0.096165	0.000496	0.009725	0.005635	0.001551	0.015506
15-Oct-2030	0.016878	10.108500	16.037900	2.372520	35.010962	1.371540	0.015170	0.147757	0.035039	0.002868	0.001453	0.096161	0.000496	0.009717	0.005630	0.001549	0.015492
16-Oct-2030	0.021644	10.116300	16.049700	2.374540	35.038757	1.372470	0.015181	0.147862	0.035073	0.002870	0.001454	0.096230	0.000496	0.009725	0.005634	0.001550	0.015505
17-Oct-2030	0.022880	10.184400	16.154600	2.391550	35.278850	1.381050	0.015280	0.148817	0.035364	0.002888	0.001466	0.096977	0.000499	0.009795	0.005672	0.001561	0.015611
18-Oct-2030	0.024145	10.236000	16.235100	2.404090	35.459335	1.387810	0.015355	0.149552	0.035545	0.002903	0.001474	0.097626	0.000502	0.009845	0.005700	0.001569	0.015690
19-Oct-2030	0.026157	10.269600	16.286900	2.412470	35.577743	1.392060	0.015404	0.150023	0.035683	0.002912	0.001480	0.097806	0.000503	0.009879	0.005719	0.001574	0.015742
20-Oct-2030	0.027044	10.298400	16.333100	2.419060	35.676794	1.396050	0.015448	0.150451	0.035779	0.002920	0.001483	0.098063	0.000505	0.009907	0.005735	0.001579	0.015786
21-Oct-2030	0.028627	10.314500	16.358300	2.422960	35.733056	1.398180	0.015472	0.150681	0.035836	0.002925	0.001486	0.098232	0.000505	0.009922	0.005744	0.001581	0.015810
22-Oct-2030	0.030985	10.364400	16.437200	2.434760	35.906248	1.404910	0.015546	0.151407	0.036008	0.002939	0.001493	0.098720	0.000508	0.009970	0.005771	0.001589	0.015887
23-Oct-2030	0.031692	10.428100	16.538700	2.449560	36.126254	1.413640	0.015642	0.152344	0.036225	0.002957	0.001502	0.099312	0.000511	0.010031	0.005807	0.001598	0.015984
24-Oct-2030	0.031700	10.467000	16.601300	2.458390	36.259749	1.419090	0.015702	0.152925	0.036352	0.002968	0.001507	0.099653	0.000513	0.010068	0.005829	0.001604	0.016044
25-Oct-2030	0.031675	10.509100	16.669000	2.467990	36.404406	1.424960	0.015766	0.153552	0.036491	0.002980	0.001513	0.100028	0.000515	0.010107	0.005852	0.001611	0.016108

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
26-Oct-2030	0.031341	10.586000	16.790300	2.486320	36.671908	1.435260	0.015880	0.154667	0.036765	0.003002	0.001524	0.100785	0.000519	0.010182	0.005895	0.001623	0.016226
27-Oct-2030	0.030370	10.654000	16.897700	2.502440	36.908086	1.444390	0.015982	0.155654	0.037005	0.003021	0.001534	0.101445	0.000522	0.010248	0.005933	0.001633	0.016331
28-Oct-2030	0.029392	10.693200	16.960000	2.511570	37.043566	1.449730	0.016041	0.156229	0.037139	0.003032	0.001540	0.101812	0.000524	0.010286	0.005955	0.001639	0.016391
29-Oct-2030	0.029618	10.701500	16.972700	2.513680	37.072980	1.450770	0.016053	0.156343	0.037171	0.003035	0.001541	0.101908	0.000524	0.010294	0.005959	0.001640	0.016403
30-Oct-2030	0.030612	10.708000	16.982400	2.515420	37.096376	1.451530	0.016062	0.156429	0.037198	0.003037	0.001543	0.101992	0.000525	0.010301	0.005963	0.001641	0.016413
31-Oct-2030	0.029506	10.750600	17.052400	2.524620	37.240633	1.457780	0.016129	0.157086	0.037323	0.003049	0.001547	0.102325	0.000527	0.010339	0.005987	0.001648	0.016478
1-Nov-2030	0.028054	10.792100	17.119100	2.534050	37.383092	1.463580	0.016192	0.157704	0.037458	0.003061	0.001553	0.102692	0.000529	0.010378	0.006010	0.001654	0.016542
2-Nov-2030	0.027734	10.846200	17.204800	2.546790	37.570643	1.470890	0.016273	0.158493	0.037646	0.003076	0.001561	0.103211	0.000532	0.010430	0.006040	0.001662	0.016625
3-Nov-2030	0.027595	10.803600	17.136800	2.536950	37.423749	1.465040	0.016209	0.157864	0.037502	0.003064	0.001555	0.102822	0.000529	0.010390	0.006016	0.001656	0.016559
4-Nov-2030	0.027737	10.864300	17.232500	2.551370	37.634699	1.473160	0.016299	0.158743	0.037717	0.003081	0.001564	0.103417	0.000532	0.010449	0.006050	0.001665	0.016652
5-Nov-2030	0.027776	10.925500	17.329100	2.565910	37.847391	1.481370	0.016390	0.159631	0.037933	0.003099	0.001573	0.104200	0.000535	0.010508	0.006084	0.001675	0.016746
6-Nov-2030	0.027672	10.987100	17.426300	2.580520	38.061370	1.489640	0.016482	0.160524	0.038150	0.003116	0.001582	0.104618	0.000538	0.010568	0.006118	0.001684	0.016840
7-Nov-2030	0.027712	11.042800	17.514300	2.593730	38.254852	1.497130	0.016565	0.161333	0.038346	0.003132	0.001590	0.105162	0.000541	0.010622	0.006149	0.001693	0.016926
8-Nov-2030	0.027597	11.094400	17.595900	2.605960	38.434060	1.504070	0.016642	0.162083	0.038527	0.003147	0.001598	0.105665	0.000544	0.010672	0.006178	0.001700	0.017005
9-Nov-2030	0.027700	11.153700	17.689500	2.619970	38.639825	1.512040	0.016730	0.162943	0.038734	0.003164	0.001606	0.106242	0.000546	0.010729	0.006211	0.001710	0.017096
10-Nov-2030	0.027756	11.201900	17.765800	2.631350	38.807044	1.518550	0.016803	0.163645	0.038901	0.003177	0.001613	0.106709	0.000549	0.010775	0.006238	0.001717	0.017169
11-Nov-2030	0.027791	11.251500	17.844500	2.643040	38.979034	1.525270	0.016877	0.164369	0.039073	0.003192	0.001621	0.107187	0.000551	0.010823	0.006265	0.001725	0.017246
12-Nov-2030	0.027603	11.313800	17.943200	2.657680	39.194885	1.533710	0.016970	0.165279	0.039288	0.003209	0.001630	0.107785	0.000554	0.010883	0.006300	0.001734	0.017341
13-Nov-2030	0.027097	11.350500	18.001600	2.666240	39.321775	1.538730	0.017026	0.165817	0.039411	0.003220	0.001635	0.108133	0.000556	0.010918	0.006321	0.001740	0.017397
14-Nov-2030	0.026886	11.398800	18.078500	2.677530	39.488872	1.545320	0.017098	0.166526	0.039576	0.003234	0.001642	0.108590	0.000558	0.010964	0.006347	0.001747	0.017471
15-Nov-2030	0.026911	11.457400	18.171300	2.691340	39.692066	1.553250	0.017186	0.167380	0.039779	0.003251	0.001650	0.109155	0.000561	0.011021	0.006380	0.001756	0.017561
16-Nov-2030	0.026924	11.519300	18.269000	2.705970	39.906877	1.561570	0.017278	0.168278	0.039994	0.003268	0.001659	0.109758	0.000564	0.011080	0.006414	0.001766	0.017655
17-Nov-2030	0.026860	11.550400	18.317900	2.713450	40.015336	1.565710	0.017324	0.168727	0.040105	0.003277	0.001664	0.110074	0.000566	0.011111	0.006432	0.001770	0.017703
18-Nov-2030	0.026725	11.574100	18.355500	2.719040	40.097534	1.568910	0.017360	0.169072	0.040187	0.003284	0.001667	0.110304	0.000567	0.011133	0.006445	0.001774	0.017739
19-Nov-2030	0.026539	11.608100	18.409300	2.727010	40.215253	1.573520	0.017411	0.169567	0.040303	0.003294	0.001672	0.110629	0.000569	0.011166	0.006464	0.001779	0.017791
20-Nov-2030	0.026214	11.658600	18.489500	2.738890	40.390273	1.580380	0.017487	0.170306	0.040478	0.003308	0.001679	0.111113	0.000571	0.011215	0.006492	0.001787	0.017869
21-Nov-2030	0.026122	11.702400	18.558800	2.749190	40.542057	1.586300	0.017552	0.170944	0.040629	0.003321	0.001686	0.111534	0.000573	0.011257	0.006516	0.001794	0.017936
22-Nov-2030	0.026263	11.770200	18.665100	2.765570	40.778807	1.595250	0.017652	0.171916	0.040872	0.003340	0.001696	0.112233	0.000577	0.011323	0.006554	0.001804	0.018039
23-Nov-2030	0.026270	11.841000	18.776500	2.782460	41.025147	1.604700	0.017757	0.172938	0.041121	0.003360	0.001707	0.112939	0.000580	0.011392	0.006593	0.001815	0.018148
24-Nov-2030	0.026158	11.815400	18.735800	2.776490	40.936640	1.601210	0.017719	0.172563	0.041033	0.003353	0.001703	0.112700	0.000579	0.011367	0.006579	0.001811	0.018108
25-Nov-2030	0.026111	11.858800	18.804000	2.786840	41.087631	1.606990	0.017783	0.173188	0.041186	0.003366	0.001709	0.113134	0.000581	0.011409	0.006603	0.001817	0.018175
26-Nov-2030	0.025908	11.889800	18.852200	2.794440	41.196335	1.611020	0.017828	0.173627	0.041298	0.003375	0.001714	0.113467	0.000582	0.011440	0.006620	0.001822	0.018222
27-Nov-2030	0.025738	11.936900	18.926800	2.805530	41.359612	1.617400	0.017899	0.174314	0.041461	0.003388	0.001721	0.113919	0.000585	0.011485	0.006646	0.001829	0.018294
28-Nov-2030	0.025794	11.999600	19.026700	2.820140	41.576338	1.625970	0.017993	0.175236	0.041677	0.003406	0.001730	0.114504	0.000588	0.011545	0.006681	0.001839	0.018390
29-Nov-2030	0.025806	12.023600	19.064400	2.825880	41.659903	1.629160	0.018029	0.175581	0.041761	0.003413	0.001733	0.114746	0.000589	0.011569	0.006695	0.001843	0.018427
30-Nov-2030	0.025667	12.050600	19.106900	2.832310	41.753801	1.632780	0.018069	0.175972	0.041856	0.003421	0.001737	0.115015	0.000590	0.011595	0.006710	0.001847	0.018468
1-Dec-2030	0.025617	12.097900	19.181900	2.843440	41.917742	1.639180	0.018140	0.176662	0.042020	0.003434	0.001744	0.115468	0.000593	0.011640	0.006736	0.001854	0.018541
2-Dec-2030	0.025622	12.162200	19.283700	2.858590	42.140687	1.647870	0.018236	0.177599	0.042243	0.003452	0.001754	0.116087	0.000596	0.011702	0.006772	0.001864	0.018639
3-Dec-2030	0.025632	12.217700	19.371500	2.871680	42.333175	1.655360	0.018319	0.178407	0.042437	0.003468	0.001762	0.116623	0.000598	0.011756	0.006802	0.001872	0.018724
4-Dec-2030	0.025599	12.267400	19.450100	2.883430	42.505663	1.662050	0.018393	0.179129	0.042610	0.003482	0.001769	0.117106	0.000601	0.011804	0.006830	0.001880	0.018800
5-Dec-2030	0.025506	12.320700	19.534700	2.895980	42.690434	1.669280	0.018473	0.179908	0.042795	0.003498	0.001777	0.117618	0.000603	0.011855	0.006860	0.001888	0.018882
6-Dec-2030	0.025511	12.389400	19.643500	2.912160	42.928607	1.678580	0.018576	0.180910	0.043033	0.003517	0.001787	0.118278	0.000607	0.011921	0.006898	0.001899	0.018987
7-Dec-2030	0.025495	12.470200	19.771400	2.931180	43.208689	1.689490	0.018697	0.182087	0.043314	0.003540	0.001798	0.119054	0.000611	0.011999	0.006943	0.001911	0.019111
8-Dec-2030	0.025404	12.550200	19.898100	2.950010	43.485991	1.700320	0.018817	0.183254	0.043593	0.003563	0.001810	0.119821	0.000615	0.012076	0.006988	0.001923	0.019234
9-Dec-2030	0.025420	12.625800	20.018000	2.967820	43.748105	1.710550	0.018930	0.184357	0.043856	0.003584	0.001821	0.120547	0.000618	0.012149	0.007030	0.001935	0.019350
10-Dec-2030	0.025418	12.706400	20.145700	2.986790	44.027482	1.721460	0.019051	0.185533	0.044136	0.003607	0.001832	0.121320	0.000622	0.012227	0.007074	0.001947	0.019473
11-Dec-2030	0.025400	12.376200	19.621600	2.909340	42.884034	1.676620	0.018555	0.180703	0.042991	0.003514	0.001785	0.118190	0.000606	0.011909	0.006891	0.001897	0.018967
12-Dec-2030	0.025403	12.299100	19.496300	2.892230	42.621056	1.665640	0.018435	0.179533	0.042735	0.003493	0.001775	0.117580	0.000602	0.011838	0.006847	0.001885	0.018848
13-Dec-2030	0.025379	12.357600	19.588600	2.906100	42.824247	1.673490	0.018523	0.180382	0.042940	0.003510	0.001784	0.118153	0.000605	0.011894	0.006880	0.001894	0.018937
14-Dec-2030	0.025314	12.381300	19.627300	2.911300	42.904840	1.676900	0.018560	0.180744	0.043018	0.003516	0.001787	0.118334	0.000606	0.011916	0.006893	0.001897	0.018974
15-Dec-2030	0.025258	12.457400	19.746600	2.929680	43.170550	1.686960	0.018672	0.181835	0.043288	0.003538	0.001798	0.119120	0.000610	0.011991	0.006935	0.001909	0.019090
16-Dec-2030	0.025164	12.499100	19.811900	2.939720	43.316020	1.692480	0.018733	0.182433	0.043436	0.003550	0.001805	0.119562	0.000612	0.012031	0.006958	0.001915	0.019154

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
17-Dec-2030	0.025120	12.536200	19.871900	2.948030	43.442879	1.697720	0.018791	0.182992	0.043559	0.003560	0.001809	0.119854	0.000614	0.012066	0.006979	0.001921	0.019211
18-Dec-2030	0.025095	12.633700	20.025400	2.971300	43.782162	1.710740	0.018935	0.184400	0.043902	0.003588	0.001824	0.120829	0.000618	0.012161	0.007033	0.001936	0.019360
19-Dec-2030	0.025021	12.722500	20.165700	2.992340	44.090539	1.722680	0.019068	0.185689	0.044213	0.003614	0.001837	0.121697	0.000623	0.012246	0.007083	0.001950	0.019496
20-Dec-2030	0.024984	12.757500	20.222400	3.000150	44.210095	1.727640	0.019122	0.186218	0.044328	0.003623	0.001842	0.121982	0.000625	0.012279	0.007102	0.001955	0.019550
21-Dec-2030	0.024995	12.855000	20.376300	3.023280	44.548802	1.740730	0.019267	0.187632	0.044670	0.003651	0.001856	0.122939	0.000629	0.012373	0.007156	0.001970	0.019699
22-Dec-2030	0.024942	12.958100	20.539200	3.047760	44.907051	1.754580	0.019421	0.189128	0.045031	0.003681	0.001871	0.123953	0.000634	0.012473	0.007214	0.001986	0.019857
23-Dec-2030	0.024885	12.996600	20.601100	3.056490	45.039136	1.759960	0.019480	0.189703	0.045160	0.003691	0.001876	0.124283	0.000636	0.012509	0.007235	0.001992	0.019916
24-Dec-2030	0.024890	13.078100	20.730000	3.075720	45.321831	1.770960	0.019602	0.190889	0.045444	0.003715	0.001888	0.125071	0.000640	0.012588	0.007281	0.002004	0.020041
25-Dec-2030	0.024857	13.168100	20.872300	3.097050	45.634398	1.783070	0.019736	0.192197	0.045759	0.003740	0.001901	0.125951	0.000645	0.012675	0.007331	0.002018	0.020179
26-Dec-2030	0.024818	13.196100	20.917600	3.103370	45.730339	1.787020	0.019779	0.192618	0.045852	0.003748	0.001905	0.126187	0.000646	0.012701	0.007346	0.002022	0.020222
27-Dec-2030	0.024824	13.260600	21.019700	3.118520	45.953784	1.795740	0.019876	0.193559	0.046076	0.003766	0.001914	0.126803	0.000649	0.012763	0.007382	0.002032	0.020321
28-Dec-2030	0.024813	13.338700	21.143200	3.137030	46.225023	1.806250	0.019992	0.194693	0.046349	0.003789	0.001926	0.127566	0.000653	0.012839	0.007426	0.002044	0.020441
29-Dec-2030	0.024772	13.374800	21.200900	3.145340	46.349386	1.811240	0.020047	0.195228	0.046472	0.003799	0.001931	0.127891	0.000655	0.012873	0.007446	0.002050	0.020496
30-Dec-2030	0.024779	13.418700	21.270700	3.155560	46.501090	1.817230	0.020113	0.195872	0.046623	0.003811	0.001937	0.128299	0.000657	0.012915	0.007470	0.002056	0.020563
31-Dec-2030	0.024763	13.498400	21.396600	3.174430	46.777808	1.827950	0.020232	0.197030	0.046901	0.003834	0.001948	0.129078	0.000661	0.012992	0.007515	0.002069	0.020685
1-Jan-2031	0.024718	13.545000	21.470900	3.185320	46.939013	1.834320	0.020303	0.197715	0.047062	0.003847	0.001955	0.129512	0.000663	0.013037	0.007541	0.002076	0.020757
2-Jan-2031	0.024715	13.586900	21.537500	3.195050	47.083705	1.840040	0.020366	0.198330	0.047206	0.003859	0.001961	0.129900	0.000665	0.013077	0.007564	0.002082	0.020821
3-Jan-2031	0.024705	13.664000	21.659400	3.213310	47.351419	1.850420	0.020481	0.199451	0.047475	0.003881	0.001972	0.130653	0.000669	0.013151	0.007607	0.002094	0.020939
4-Jan-2031	0.024664	13.709000	21.730800	3.223890	47.507352	1.856520	0.020548	0.200108	0.047632	0.003894	0.001979	0.131082	0.000671	0.013195	0.007632	0.002101	0.021008
5-Jan-2031	0.024659	13.752100	21.799400	3.233920	47.656276	1.862410	0.020613	0.200741	0.047780	0.003906	0.001985	0.131483	0.000673	0.013236	0.007656	0.002107	0.021074
6-Jan-2031	0.024663	13.827000	21.917800	3.251650	47.916314	1.872490	0.020725	0.201830	0.048042	0.003927	0.001996	0.132213	0.000677	0.013308	0.007698	0.002119	0.021189
7-Jan-2031	0.024644	13.874900	21.993600	3.262970	48.082536	1.878950	0.020797	0.202527	0.048209	0.003941	0.002003	0.132677	0.000679	0.013355	0.007724	0.002126	0.021262
8-Jan-2031	0.024618	13.925300	22.073400	3.274850	48.257306	1.885770	0.020872	0.203262	0.048384	0.003955	0.002010	0.133162	0.000682	0.013403	0.007752	0.002134	0.021340
9-Jan-2031	0.024621	13.988400	22.173400	3.289670	48.475896	1.894310	0.020967	0.204182	0.048603	0.003973	0.002019	0.133764	0.000685	0.013464	0.007787	0.002144	0.021436
10-Jan-2031	0.024615	14.055700	22.279700	3.305640	48.709708	1.903350	0.021067	0.205159	0.048839	0.003992	0.002029	0.134425	0.000688	0.013529	0.007825	0.002154	0.021539
11-Jan-2031	0.024589	14.111900	22.368400	3.318930	48.904768	1.910910	0.021151	0.205975	0.049035	0.004008	0.002037	0.134972	0.000691	0.013583	0.007856	0.002163	0.021625
12-Jan-2031	0.024568	14.159900	22.444500	3.330250	49.071240	1.917400	0.021223	0.206675	0.049202	0.004022	0.002044	0.135435	0.000693	0.013630	0.007883	0.002170	0.021699
13-Jan-2031	0.024547	14.213000	22.528500	3.342770	49.255388	1.924570	0.021302	0.207448	0.049387	0.004037	0.002052	0.135946	0.000696	0.013681	0.007912	0.002178	0.021780
14-Jan-2031	0.024547	14.265500	22.611700	3.355180	49.437585	1.931660	0.021381	0.208213	0.049571	0.004052	0.002060	0.136455	0.000698	0.013731	0.007942	0.002186	0.021861
15-Jan-2031	0.024531	14.316100	22.691700	3.367100	49.613020	1.938490	0.021456	0.208950	0.049747	0.004067	0.002067	0.136942	0.000701	0.013780	0.007970	0.002194	0.021938
16-Jan-2031	0.024529	14.355200	22.753900	3.376210	49.748167	1.943820	0.021515	0.209523	0.049881	0.004078	0.002073	0.137306	0.000703	0.013818	0.007991	0.002200	0.021998
17-Jan-2031	0.024538	14.403800	22.830600	3.387760	49.917084	1.950340	0.021588	0.210228	0.050052	0.004092	0.002080	0.137786	0.000705	0.013865	0.008018	0.002207	0.022072
18-Jan-2031	0.024537	14.461500	22.922000	3.401360	50.117166	1.958140	0.021674	0.211069	0.050253	0.004108	0.002088	0.138341	0.000708	0.013920	0.008051	0.002216	0.022161
19-Jan-2031	0.024539	14.522500	23.018600	3.415750	50.328741	1.966390	0.021765	0.211958	0.050465	0.004125	0.002097	0.138930	0.000711	0.013979	0.008085	0.002225	0.022254
20-Jan-2031	0.024537	14.571900	23.096800	3.427450	50.500273	1.973040	0.021839	0.212677	0.050638	0.004139	0.002104	0.139411	0.000713	0.014027	0.008112	0.002233	0.022330
21-Jan-2031	0.024537	14.622500	23.177000	3.439330	50.675543	1.979900	0.021915	0.213416	0.050813	0.004154	0.002111	0.139894	0.000716	0.014076	0.008140	0.002241	0.022408
22-Jan-2031	0.024528	14.682400	23.272000	3.453380	50.882972	1.988030	0.022005	0.214291	0.051021	0.004171	0.002120	0.140462	0.000719	0.014133	0.008174	0.002250	0.022499
23-Jan-2031	0.024519	14.718900	23.330300	3.461770	51.008662	1.993060	0.022060	0.214831	0.051145	0.004181	0.002125	0.140789	0.000721	0.014168	0.008194	0.002256	0.022555
24-Jan-2031	0.024506	14.736200	23.358800	3.465550	51.067426	1.995580	0.022088	0.215098	0.051201	0.004186	0.002127	0.140918	0.000721	0.014184	0.008204	0.002258	0.022582
25-Jan-2031	0.024493	14.790600	23.445500	3.478180	51.255273	2.003030	0.022170	0.215899	0.051388	0.004201	0.002135	0.141419	0.000724	0.014236	0.008234	0.002267	0.022666
26-Jan-2031	0.024482	14.859100	23.554300	3.494190	51.492247	2.012360	0.022273	0.216902	0.051624	0.004220	0.002145	0.142062	0.000727	0.014301	0.008272	0.002277	0.022771
27-Jan-2031	0.024476	14.911700	23.637900	3.506500	51.674282	2.019520	0.022352	0.217673	0.051806	0.004235	0.002152	0.142558	0.000730	0.014352	0.008302	0.002285	0.022851
28-Jan-2031	0.024469	14.951300	23.700900	3.515760	51.811296	2.024910	0.022411	0.218254	0.051943	0.004246	0.002158	0.142931	0.000732	0.014390	0.008324	0.002291	0.022912
29-Jan-2031	0.024457	15.010600	23.796100	3.529280	52.015043	2.033160	0.022502	0.219137	0.052144	0.004263	0.002166	0.143445	0.000735	0.014446	0.008357	0.002300	0.023003
30-Jan-2031	0.024441	15.183000	24.069500	3.569790	52.612346	2.056530	0.022760	0.221655	0.052742	0.004312	0.002191	0.145090	0.000743	0.014612	0.008453	0.002327	0.023267
31-Jan-2031	0.024426	15.379400	24.381000	3.615940	53.292803	2.083150	0.023055	0.224524	0.053424	0.004368	0.002219	0.146963	0.000753	0.014801	0.008562	0.002357	0.023568
1-Feb-2031	0.024414	15.578800	24.697300	3.662800	53.983674	2.110190	0.023354	0.227438	0.054116	0.004424	0.002248	0.148865	0.000763	0.014992	0.008673	0.002387	0.023874
2-Feb-2031	0.024408	15.767800	24.996900	3.707210	54.638487	2.135790	0.023637	0.230197	0.054772	0.004478	0.002275	0.150669	0.000772	0.015174	0.008779	0.002416	0.024164
3-Feb-2031	0.024405	15.945300	25.278200	3.748950	55.253590	2.159820	0.023903	0.232788	0.055389	0.004528	0.002300	0.152366	0.000781	0.015345	0.008877	0.002444	0.024435
4-Feb-2031	0.024402	16.131500	25.573400	3.792740	55.898859	2.185050	0.024183	0.235506	0.056036	0.004581	0.002327	0.154146	0.000790	0.015524	0.008981	0.002472	0.024721
5-Feb-2031	0.024400	16.283500	25.814300	3.828460	56.425498	2.205630	0.024410	0.237725	0.056564	0.004624	0.002349	0.155598	0.000797	0.015671	0.009066	0.002495	0.024954
6-Feb-2031	0.024398	16.440500	26.063200	3.865370	56.969522	2.226900	0.024646	0.240017	0.057109	0.004669	0.002372	0.157097	0.000805	0.015822	0.009153	0.002519	0.025194

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Feb-2031	0.024396	16.564600	26.260000	3.894540	57.399522	2.243720	0.024832	0.241829	0.057540	0.004704	0.002390	0.158282	0.000811	0.015941	0.009222	0.002538	0.025385
8-Feb-2031	0.024393	16.668400	26.424600	3.918930	57.759149	2.257780	0.024988	0.243345	0.057900	0.004734	0.002405	0.159273	0.000816	0.016041	0.009280	0.002554	0.025544
9-Feb-2031	0.024392	16.841900	26.699700	3.959730	58.360392	2.281290	0.025248	0.245879	0.058503	0.004783	0.002430	0.160931	0.000825	0.016208	0.009377	0.002581	0.025810
10-Feb-2031	0.024393	17.064100	27.052000	4.011980	59.130391	2.311390	0.025581	0.249123	0.059275	0.004846	0.002462	0.163055	0.000836	0.016422	0.009500	0.002615	0.026150
11-Feb-2031	0.024393	17.336300	27.483500	4.075980	60.073627	2.348260	0.025989	0.253097	0.060220	0.004923	0.002501	0.165656	0.000849	0.016684	0.009652	0.002657	0.026567
12-Feb-2031	0.024393	17.610300	27.917800	4.140380	61.023004	2.385360	0.026400	0.257096	0.061172	0.005001	0.002541	0.168273	0.000862	0.016947	0.009804	0.002699	0.026987
13-Feb-2031	0.024392	17.930000	28.424600	4.215550	62.130845	2.428670	0.026879	0.261763	0.062282	0.005092	0.002587	0.171328	0.000878	0.017255	0.009982	0.002748	0.027477
14-Feb-2031	0.024392	18.284400	28.986500	4.298870	63.358893	2.476670	0.027410	0.266937	0.063514	0.005192	0.002638	0.174715	0.000895	0.017596	0.010180	0.002802	0.028020
15-Feb-2031	0.024392	18.670200	29.598100	4.389590	64.695821	2.528940	0.027989	0.272570	0.064854	0.005302	0.002694	0.178401	0.000914	0.017967	0.010394	0.002861	0.028611
16-Feb-2031	0.024391	19.023500	30.158200	4.472650	65.920052	2.576790	0.028518	0.277728	0.066081	0.005402	0.002745	0.181777	0.000931	0.018307	0.010591	0.002915	0.029153
17-Feb-2031	0.024391	19.334600	30.651500	4.545810	66.998142	2.618940	0.028985	0.282270	0.067162	0.005491	0.002789	0.184750	0.000947	0.018607	0.010764	0.002963	0.029630
18-Feb-2031	0.024391	19.648700	31.149500	4.619660	68.086564	2.661480	0.029455	0.286856	0.068253	0.005580	0.002835	0.187752	0.000962	0.018909	0.010939	0.003011	0.030111
19-Feb-2031	0.024391	19.952700	31.631300	4.691110	69.139883	2.702650	0.029911	0.291293	0.069309	0.005666	0.002879	0.190656	0.000977	0.019202	0.011108	0.003058	0.030577
20-Feb-2031	0.024391	20.257200	32.114100	4.762720	70.195109	2.743910	0.030368	0.295740	0.070367	0.005753	0.002923	0.193566	0.000992	0.019495	0.011278	0.003104	0.031043
21-Feb-2031	0.024389	18.582200	29.458300	4.369030	64.391419	2.516950	0.027856	0.271280	0.064550	0.005277	0.002681	0.177576	0.000910	0.017883	0.010345	0.002848	0.028476
22-Feb-2031	0.024390	18.814600	29.826700	4.423670	65.196729	2.548430	0.028205	0.274673	0.065357	0.005343	0.002715	0.179798	0.000921	0.018107	0.010475	0.002883	0.028833
23-Feb-2031	0.024390	19.033600	30.173900	4.475170	65.955649	2.578090	0.028533	0.277870	0.066118	0.005405	0.002746	0.181891	0.000932	0.018317	0.010597	0.002917	0.029168
24-Feb-2031	0.024390	19.239600	30.500400	4.523590	66.669425	2.605990	0.028842	0.280877	0.066833	0.005464	0.002776	0.183859	0.000942	0.018516	0.010711	0.002948	0.029484
25-Feb-2031	0.024389	18.646200	29.558700	4.384400	64.614521	2.525430	0.027951	0.272199	0.064777	0.005296	0.002691	0.178228	0.000913	0.017945	0.010381	0.002857	0.028574
26-Feb-2031	0.024389	18.846500	29.876100	4.431490	65.308586	2.552560	0.028251	0.275123	0.065472	0.005352	0.002720	0.180142	0.000923	0.018138	0.010492	0.002888	0.028881
27-Feb-2031	0.024389	19.051400	30.201000	4.479690	66.018709	2.580320	0.028558	0.278115	0.066184	0.005411	0.002749	0.182102	0.000933	0.018335	0.010606	0.002920	0.029195
28-Feb-2031	0.024389	19.255800	30.525100	4.527760	66.727048	2.608000	0.028865	0.281099	0.066895	0.005469	0.002779	0.184056	0.000943	0.018532	0.010720	0.002951	0.029508
1-Mar-2031	0.024389	19.469400	30.863600	4.577970	67.467172	2.636920	0.029185	0.284216	0.067636	0.005529	0.002809	0.186097	0.000953	0.018738	0.010839	0.002984	0.029836
2-Mar-2031	0.024389	19.693800	31.219300	4.630730	68.244765	2.667310	0.029521	0.287492	0.068416	0.005593	0.002842	0.188242	0.000964	0.018954	0.010964	0.003018	0.030180
3-Mar-2031	0.024389	19.927900	31.590500	4.685790	69.056050	2.699020	0.029872	0.290910	0.069230	0.005660	0.002876	0.190481	0.000976	0.019179	0.011094	0.003054	0.030538
4-Mar-2031	0.024389	20.176400	31.984400	4.744230	69.917210	2.732680	0.030244	0.294537	0.070093	0.005730	0.002912	0.192856	0.000988	0.019418	0.011233	0.003092	0.030919
5-Mar-2031	0.024389	20.434600	32.393700	4.804940	70.811939	2.767650	0.030631	0.298306	0.070990	0.005804	0.002949	0.195324	0.001001	0.019667	0.011377	0.003131	0.031315
6-Mar-2031	0.024389	20.702400	32.818200	4.867910	71.739946	2.803920	0.031033	0.302215	0.071920	0.005880	0.002987	0.197885	0.001014	0.019924	0.011526	0.003173	0.031725
7-Mar-2031	0.024389	20.979000	33.256700	4.932970	72.698533	2.841380	0.031448	0.306254	0.072881	0.005958	0.003027	0.200529	0.001027	0.020191	0.011680	0.003215	0.032149
8-Mar-2031	0.024389	21.264700	33.709600	5.000140	73.688532	2.880070	0.031876	0.310424	0.073874	0.006039	0.003069	0.203260	0.001041	0.020466	0.011839	0.003259	0.032587
9-Mar-2031	0.024389	21.559600	34.177100	5.069490	74.710481	2.920010	0.032318	0.314729	0.074898	0.006123	0.003111	0.206079	0.001056	0.020749	0.012003	0.003304	0.033039
10-Mar-2031	0.024389	21.864700	34.660700	5.141230	75.767741	2.961330	0.032775	0.319182	0.075958	0.006210	0.003155	0.208996	0.001071	0.021043	0.012173	0.003351	0.033506
11-Mar-2031	0.024389	22.182600	35.164700	5.215990	76.869399	3.004390	0.033252	0.323823	0.077063	0.006300	0.003201	0.212035	0.001086	0.021349	0.012350	0.003399	0.033994
12-Mar-2031	0.024385	18.619200	29.517600	4.377520	64.518770	2.522080	0.027912	0.271830	0.064675	0.005287	0.002686	0.177905	0.000912	0.017918	0.010366	0.002853	0.028533
13-Mar-2031	0.024385	18.767700	29.753000	4.412440	65.033375	2.542200	0.028135	0.273998	0.065191	0.005330	0.002708	0.179324	0.000919	0.018061	0.010449	0.002876	0.028761
14-Mar-2031	0.024385	18.915600	29.987500	4.447210	65.545864	2.562230	0.028357	0.276157	0.065705	0.005372	0.002729	0.180737	0.000926	0.018203	0.010531	0.002899	0.028987
15-Mar-2031	0.024385	19.063400	30.221700	4.481950	66.057980	2.582240	0.028578	0.278314	0.066218	0.005414	0.002750	0.182149	0.000933	0.018346	0.010613	0.002921	0.029214
16-Mar-2031	0.024385	19.212100	30.457500	4.516910	66.573249	2.602390	0.028801	0.280485	0.066735	0.005456	0.002772	0.183570	0.000941	0.018489	0.010696	0.002944	0.029442
17-Mar-2031	0.024385	19.361500	30.694300	4.552030	67.090925	2.622620	0.029025	0.282666	0.067253	0.005498	0.002793	0.184997	0.000948	0.018632	0.010779	0.002967	0.029671
18-Mar-2031	0.024385	19.511400	30.932000	4.587280	67.610385	2.642930	0.029250	0.284855	0.067774	0.005541	0.002815	0.186430	0.000955	0.018777	0.010863	0.002990	0.029901
19-Mar-2031	0.024385	19.661900	31.170700	4.622670	68.131919	2.663320	0.029476	0.287053	0.068297	0.005584	0.002837	0.187868	0.000963	0.018922	0.010947	0.003013	0.030131
20-Mar-2031	0.024385	19.812300	31.409000	4.658010	68.652998	2.683690	0.029701	0.289248	0.068819	0.005626	0.002858	0.189304	0.000970	0.019066	0.011030	0.003036	0.030362
21-Mar-2031	0.024385	19.961400	31.645400	4.693080	69.169719	2.703890	0.029925	0.291425	0.069337	0.005669	0.002880	0.190729	0.000977	0.019210	0.011113	0.003059	0.030590
22-Mar-2031	0.024384	20.109900	31.880800	4.727990	69.684283	2.724000	0.030147	0.293593	0.069853	0.005711	0.002901	0.192148	0.000985	0.019353	0.011196	0.003082	0.030818
23-Mar-2031	0.024384	20.258800	32.116900	4.763000	70.200258	2.744170	0.030370	0.295767	0.070370	0.005753	0.002923	0.193571	0.000992	0.019496	0.011279	0.003105	0.031046
24-Mar-2031	0.024384	20.408100	32.353600	4.798100	70.717602	2.764390	0.030594	0.297946	0.070889	0.005795	0.002944	0.194997	0.000999	0.019640	0.011362	0.003127	0.031275
25-Mar-2031	0.024384	20.557200	32.590000	4.833160	71.234281	2.784590	0.030818	0.300123	0.071407	0.005838	0.002966	0.196422	0.001007	0.019783	0.011445	0.003150	0.031503
26-Mar-2031	0.024384	20.704900	32.824100	4.867880	71.746065	2.804600	0.031039	0.302279	0.071920	0.005880	0.002987	0.197833	0.001014	0.019925	0.011527	0.003173	0.031729
27-Mar-2031	0.024384	20.850900	33.055500	4.902200	72.251957	2.824370	0.031258	0.304411	0.072427	0.005921	0.003008	0.199228	0.001021	0.020066	0.011609	0.003195	0.031953
28-Mar-2031	0.024384	20.999000	33.290300	4.937020	72.765151	2.844430	0.031480	0.306573	0.072941	0.005963	0.003029	0.200643	0.001028	0.020208	0.011691	0.003218	0.032180
29-Mar-2031	0.024384	21.147100	33.525100	4.971840	73.278346	2.864500	0.031702	0.308735	0.073456	0.006005	0.003051	0.202058	0.001036	0.020351	0.011774	0.003241	0.032407
30-Mar-2031	0.024384	21.295400	33.760200	5.006700	73.792204	2.884580	0.031924	0.310900	0.073971	0.006047	0.003072	0.203475	0.001043	0.020493	0.011856	0.003263	0.032634

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Mar-2031	0.024384	21.451200	34.007300	5.043350	74.332162	2.905690	0.032158	0.313176	0.074512	0.006092	0.003095	0.204964	0.001050	0.020643	0.011943	0.003287	0.032873
1-Apr-2031	0.024384	21.608900	34.257200	5.080400	74.878511	2.927040	0.032394	0.315477	0.075060	0.006136	0.003117	0.206470	0.001058	0.020795	0.012031	0.003311	0.033115
2-Apr-2031	0.024384	21.757900	34.493400	5.115440	75.394858	2.947230	0.032618	0.317652	0.075577	0.006179	0.003139	0.207894	0.001065	0.020939	0.012114	0.003334	0.033343
3-Apr-2031	0.024384	21.732000	34.452400	5.109350	75.305107	2.943720	0.032579	0.317275	0.075488	0.006171	0.003135	0.207647	0.001064	0.020914	0.012099	0.003330	0.033303
4-Apr-2031	0.024384	21.693600	34.391500	5.100320	75.172037	2.938520	0.032521	0.316714	0.075354	0.006161	0.003130	0.207280	0.001062	0.020877	0.012078	0.003324	0.033245
5-Apr-2031	0.024384	21.674800	34.361700	5.095910	75.106933	2.935980	0.032493	0.316440	0.075289	0.006155	0.003127	0.207100	0.001061	0.020859	0.012067	0.003322	0.033216
6-Apr-2031	0.024384	21.645400	34.315100	5.088990	75.005025	2.931990	0.032449	0.316010	0.075187	0.006147	0.003123	0.206819	0.001060	0.020830	0.012051	0.003317	0.033171
7-Apr-2031	0.024384	21.597700	34.239500	5.077780	74.839755	2.925530	0.032378	0.315314	0.075021	0.006133	0.003116	0.206363	0.001058	0.020784	0.012024	0.003310	0.033098
8-Apr-2031	0.024384	21.556600	34.174400	5.068130	74.697390	2.919970	0.032316	0.314715	0.074878	0.006122	0.003110	0.205971	0.001056	0.020745	0.012002	0.003303	0.033035
9-Apr-2031	0.024384	21.509100	34.099000	5.056940	74.532702	2.913530	0.032245	0.314020	0.074713	0.006108	0.003103	0.205516	0.001053	0.020699	0.011975	0.003296	0.032962
10-Apr-2031	0.024384	21.459400	34.020200	5.045260	74.360502	2.906800	0.032170	0.313295	0.074541	0.006094	0.003096	0.205042	0.001051	0.020651	0.011947	0.003289	0.032886
11-Apr-2031	0.024384	21.409700	33.941400	5.033580	74.188303	2.900070	0.032096	0.312569	0.074368	0.006080	0.003089	0.204567	0.001048	0.020603	0.011920	0.003281	0.032810
12-Apr-2031	0.024384	21.345900	33.840300	5.018570	73.967184	2.891420	0.032000	0.311638	0.074146	0.006062	0.003079	0.203957	0.001045	0.020542	0.011884	0.003271	0.032712
13-Apr-2031	0.024384	21.263600	33.709900	4.999240	73.682080	2.880280	0.031877	0.310437	0.073861	0.006038	0.003068	0.203171	0.001041	0.020463	0.011838	0.003259	0.032586
14-Apr-2031	0.024384	21.182400	33.581100	4.980130	73.400628	2.869280	0.031755	0.309251	0.073578	0.006015	0.003056	0.202395	0.001037	0.020385	0.011793	0.003246	0.032461
15-Apr-2031	0.024384	21.105400	33.459100	4.962040	73.133865	2.858850	0.031640	0.308127	0.073311	0.005993	0.003045	0.201660	0.001033	0.020311	0.011750	0.003234	0.032343
16-Apr-2031	0.024384	21.020000	33.323600	4.941950	72.837890	2.847270	0.031511	0.306879	0.073014	0.005969	0.003032	0.200843	0.001029	0.020228	0.011703	0.003221	0.032212
17-Apr-2031	0.024384	20.933800	33.186900	4.921680	72.539177	2.835600	0.031382	0.305621	0.072715	0.005945	0.003020	0.200020	0.001025	0.020145	0.011655	0.003208	0.032080
18-Apr-2031	0.024384	20.855000	33.062100	4.903170	72.266189	2.824930	0.031264	0.304471	0.072441	0.005922	0.003009	0.199267	0.001021	0.020070	0.011611	0.003196	0.031960
19-Apr-2031	0.024384	20.781800	32.946100	4.885960	72.012538	2.815020	0.031154	0.303403	0.072187	0.005902	0.002998	0.198568	0.001018	0.019999	0.011570	0.003185	0.031847
20-Apr-2031	0.024384	20.714300	32.839000	4.870080	71.778597	2.805870	0.031053	0.302417	0.071953	0.005882	0.002988	0.197923	0.001014	0.019934	0.011533	0.003174	0.031744
21-Apr-2031	0.024384	20.651700	32.739700	4.855370	71.561709	2.797390	0.030959	0.301503	0.071735	0.005865	0.002979	0.197325	0.001011	0.019874	0.011498	0.003165	0.031648
22-Apr-2031	0.024384	20.593200	32.646900	4.841600	71.358929	2.789460	0.030872	0.300648	0.071532	0.005848	0.002971	0.196765	0.001008	0.019818	0.011465	0.003156	0.031558
23-Apr-2031	0.024384	20.537900	32.559400	4.828620	71.167393	2.781980	0.030789	0.299842	0.071340	0.005832	0.002963	0.196238	0.001006	0.019765	0.011434	0.003147	0.031474
24-Apr-2031	0.024384	20.485700	32.476500	4.816330	70.986440	2.774900	0.030710	0.299079	0.071158	0.005817	0.002955	0.195738	0.001003	0.019714	0.011405	0.003139	0.031394
25-Apr-2031	0.024384	20.436200	32.398200	4.804710	70.814987	2.768210	0.030636	0.298357	0.070987	0.005803	0.002948	0.195266	0.001001	0.019667	0.011378	0.003132	0.031318
26-Apr-2031	0.024384	20.389100	32.323400	4.793620	70.651710	2.761820	0.030566	0.297669	0.070823	0.005790	0.002941	0.194815	0.000998	0.019621	0.011352	0.003125	0.031245
27-Apr-2031	0.024384	20.343400	32.251000	4.782880	70.493370	2.755630	0.030497	0.297002	0.070664	0.005777	0.002935	0.194379	0.000996	0.019577	0.011326	0.003118	0.031175
28-Apr-2031	0.024384	20.299100	32.180700	4.772460	70.339843	2.749620	0.030431	0.296354	0.070510	0.005765	0.002928	0.193955	0.000994	0.019535	0.011301	0.003111	0.031108
29-Apr-2031	0.024384	20.256100	32.112600	4.762360	70.190880	2.743810	0.030366	0.295728	0.070361	0.005752	0.002922	0.193545	0.000992	0.019493	0.011277	0.003104	0.031042
30-Apr-2031	0.024401	20.212500	32.043400	4.752100	70.039760	2.737900	0.030301	0.295090	0.070209	0.005740	0.002916	0.193128	0.000990	0.019451	0.011253	0.003097	0.030975
1-May-2031	0.024596	20.151400	31.946700	4.737760	69.828141	2.729630	0.030209	0.294199	0.069997	0.005723	0.002907	0.192545	0.000987	0.019393	0.011219	0.003088	0.030881
2-May-2031	0.025687	20.002400	31.710500	4.702720	69.311794	2.709450	0.029986	0.292024	0.069480	0.005680	0.002886	0.191121	0.000979	0.019249	0.011136	0.003065	0.030653
3-May-2031	0.030132	19.547100	30.988500	4.595660	67.734037	2.647760	0.029303	0.285376	0.067898	0.005551	0.002820	0.186770	0.000957	0.018811	0.010883	0.002996	0.029955
4-May-2031	0.035228	18.918200	29.991500	4.447800	65.554786	2.562580	0.028361	0.276194	0.065714	0.005372	0.002729	0.180761	0.000926	0.018206	0.010533	0.002899	0.028991
5-May-2031	0.040592	18.500300	29.329000	4.349550	64.106696	2.505970	0.027734	0.270093	0.064262	0.005254	0.002669	0.176768	0.000906	0.017804	0.010300	0.002835	0.028351
6-May-2031	0.045563	18.333700	29.065000	4.310390	63.529435	2.483400	0.027484	0.267661	0.063683	0.005206	0.002645	0.175176	0.000898	0.017643	0.010207	0.002810	0.028096
7-May-2031	0.051442	18.131000	28.743500	4.262720	62.826988	2.455940	0.027180	0.264701	0.062979	0.005149	0.002616	0.173239	0.000888	0.017448	0.010094	0.002778	0.027785
8-May-2031	0.056337	17.958800	28.470600	4.222230	62.230267	2.432620	0.026922	0.262188	0.062381	0.005100	0.002591	0.171594	0.000879	0.017282	0.009998	0.002752	0.027521
9-May-2031	0.060709	17.791700	28.205700	4.182970	61.651345	2.409990	0.026672	0.259749	0.061801	0.005052	0.002567	0.169998	0.000871	0.017122	0.009905	0.002727	0.027265
10-May-2031	0.064522	17.725100	28.100100	4.167300	61.420516	2.400970	0.026572	0.258776	0.061569	0.005034	0.002557	0.169361	0.000868	0.017058	0.009868	0.002716	0.027163
11-May-2031	0.073891	18.913900	29.983200	4.447290	65.541949	2.561730	0.028352	0.276110	0.065706	0.005372	0.002729	0.180779	0.000926	0.018203	0.010530	0.002898	0.028984
12-May-2031	0.077711	18.258800	28.944800	4.293250	63.271827	2.473010	0.027370	0.266548	0.063430	0.005186	0.002635	0.174516	0.000894	0.017572	0.010165	0.002798	0.027981
13-May-2031	0.081184	17.643000	27.968600	4.148430	61.137806	2.389600	0.026447	0.257558	0.061291	0.005011	0.002546	0.168628	0.000864	0.016980	0.009822	0.002704	0.027037
14-May-2031	0.094511	17.427500	27.628300	4.097340	60.389314	2.360650	0.026126	0.254431	0.060536	0.004949	0.002514	0.166518	0.000853	0.016771	0.009703	0.002671	0.026707
15-May-2031	0.097854	17.353300	27.510600	4.079890	60.132177	2.350590	0.026015	0.253347	0.060278	0.004928	0.002503	0.165809	0.000850	0.016700	0.009661	0.002659	0.026593
16-May-2031	0.107229	17.265100	27.370800	4.059160	59.826576	2.338650	0.025882	0.252060	0.059972	0.004903	0.002491	0.164966	0.000845	0.016615	0.009612	0.002646	0.026458
17-May-2031	0.115606	17.169000	27.218500	4.036570	59.493588	2.325640	0.025738	0.250657	0.059638	0.004876	0.002477	0.164049	0.000841	0.016523	0.009559	0.002631	0.026311
18-May-2031	0.142273	17.067400	27.057400	4.012670	59.141473	2.311860	0.025586	0.249173	0.059285	0.004847	0.002462	0.163077	0.000836	0.016425	0.009502	0.002616	0.026155
19-May-2031	0.143973	16.923200	26.828800	3.978790	58.641888	2.292340	0.025370	0.247068	0.058785	0.004806	0.002441	0.161700	0.000829	0.016286	0.009422	0.002593	0.025934
20-May-2031	0.148852	16.723600	26.512300	3.931850	57.950188	2.265290	0.025071	0.244153	0.058091	0.004749	0.002413	0.159793	0.000819	0.016094	0.009311	0.002563	0.025628
21-May-2031	0.151808	16.339500	25.903400	3.841570	56.619317	2.213260	0.024495	0.238546	0.056758	0.004640	0.002357	0.156124	0.000800	0.015724	0.009097	0.002504	0.025040

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
22-May-2031	0.155577	15.977200	25.329100	3.756400	55.363924	2.164180	0.023952	0.233256	0.055500	0.004537	0.002305	0.152663	0.000782	0.015376	0.008895	0.002448	0.024484
23-May-2031	0.158472	15.647500	24.806400	3.678890	54.221477	2.119520	0.023457	0.228442	0.054355	0.004444	0.002257	0.149513	0.000766	0.015058	0.008712	0.002398	0.023979
24-May-2031	0.164315	15.367000	24.361600	3.612960	53.249568	2.081510	0.023037	0.224346	0.053381	0.004364	0.002217	0.146834	0.000752	0.014789	0.008555	0.002355	0.023549
25-May-2031	0.166128	14.959200	23.715100	3.517100	51.836540	2.026270	0.022425	0.218392	0.051965	0.004248	0.002158	0.142939	0.000732	0.014396	0.008328	0.002292	0.022924
26-May-2031	0.166642	14.651000	23.226300	3.444650	50.768616	1.984490	0.021963	0.213889	0.050895	0.004160	0.002114	0.139995	0.000717	0.014100	0.008157	0.002245	0.022452
27-May-2031	0.170733	14.361000	22.766600	3.376500	49.763844	1.945200	0.021528	0.209655	0.049888	0.004078	0.002072	0.137226	0.000703	0.013821	0.007995	0.002201	0.022007
28-May-2031	0.176669	14.037500	22.253700	3.300480	48.643014	1.901360	0.021043	0.204930	0.048766	0.003986	0.002025	0.134138	0.000687	0.013509	0.007815	0.002151	0.021512
29-May-2031	0.184565	13.898600	22.033400	3.267830	48.161728	1.882540	0.020835	0.202901	0.048283	0.003947	0.002005	0.132812	0.000681	0.013376	0.007738	0.002130	0.021299
30-May-2031	0.193936	13.753200	21.802800	3.233650	47.657911	1.862830	0.020617	0.200778	0.047779	0.003905	0.001984	0.131423	0.000673	0.013236	0.007657	0.002108	0.021076
31-May-2031	0.213273	13.669100	21.668800	3.214090	47.367365	1.851310	0.020490	0.199539	0.047491	0.003882	0.001973	0.130643	0.000669	0.013156	0.007610	0.002095	0.020947
1-Jun-2031	0.229301	13.610300	21.576100	3.200100	47.162931	1.843450	0.020402	0.198689	0.047284	0.003865	0.001964	0.130061	0.000666	0.013099	0.007577	0.002086	0.020857
2-Jun-2031	0.253323	13.464400	21.344100	3.165980	46.658112	1.823550	0.020182	0.196547	0.046782	0.003823	0.001943	0.128684	0.000659	0.012959	0.007496	0.002063	0.020633
3-Jun-2031	0.282510	13.345200	21.154600	3.138100	46.245660	1.807300	0.020003	0.194797	0.046374	0.003789	0.001926	0.127558	0.000653	0.012845	0.007430	0.002045	0.020450
4-Jun-2031	0.329433	13.216600	20.949700	3.108210	45.801459	1.789660	0.019808	0.192899	0.045943	0.003753	0.001908	0.126360	0.000647	0.012722	0.007358	0.002025	0.020253
5-Jun-2031	0.467152	12.969300	20.555300	3.050760	44.947372	1.755700	0.019434	0.189251	0.045119	0.003682	0.001874	0.124054	0.000635	0.012487	0.007220	0.001988	0.019875
6-Jun-2031	0.510518	12.854100	20.370000	3.024420	44.551249	1.739570	0.019257	0.187520	0.044753	0.003649	0.001859	0.123015	0.000629	0.012379	0.007155	0.001970	0.019699
7-Jun-2031	0.544509	12.678600	20.086200	2.984770	43.949747	1.714670	0.018986	0.184861	0.044220	0.003598	0.001836	0.121466	0.000620	0.012217	0.007057	0.001943	0.019432
8-Jun-2031	0.556898	12.505400	19.801700	2.946810	43.360947	1.689250	0.018711	0.182159	0.043750	0.003546	0.001816	0.120038	0.000611	0.012062	0.006959	0.001917	0.019170
9-Jun-2031	0.579218	12.346500	19.541500	2.911880	42.820332	1.666040	0.018459	0.179699	0.043308	0.003499	0.001798	0.118711	0.000603	0.011920	0.006869	0.001893	0.018929
10-Jun-2031	0.596203	12.123400	19.177900	2.862290	42.059040	1.633910	0.018111	0.176286	0.042697	0.003434	0.001772	0.116846	0.000591	0.011717	0.006743	0.001859	0.018591
11-Jun-2031	0.614180	11.924300	18.847800	2.821340	41.393255	1.604030	0.017790	0.173128	0.042241	0.003374	0.001753	0.115364	0.000581	0.011551	0.006630	0.001829	0.018290
12-Jun-2031	0.650070	11.700900	18.473800	2.772940	40.636114	1.569590	0.017421	0.169485	0.041720	0.003305	0.001730	0.113537	0.000569	0.011353	0.006503	0.001795	0.017951
13-Jun-2031	0.722070	11.498000	18.132300	2.731050	39.956970	1.538280	0.017084	0.166191	0.041383	0.003241	0.001716	0.112159	0.000558	0.011182	0.006387	0.001764	0.017644
14-Jun-2031	0.829562	11.334700	17.857400	2.697610	39.411504	1.513860	0.016824	0.163624	0.041086	0.003192	0.001703	0.110983	0.000549	0.011046	0.006293	0.001740	0.017398
15-Jun-2031	0.966237	11.162100	17.562400	2.662820	38.837256	1.485410	0.016521	0.160628	0.040795	0.003136	0.001691	0.109925	0.000540	0.010905	0.006194	0.001714	0.017137
16-Jun-2031	1.136757	11.034800	17.359200	2.635710	38.407749	1.467390	0.016330	0.158740	0.040542	0.003100	0.001680	0.109027	0.000533	0.010795	0.006123	0.001695	0.016948
17-Jun-2031	1.349589	10.897900	17.123700	2.609250	37.956948	1.445010	0.016094	0.156400	0.040260	0.003056	0.001669	0.108050	0.000526	0.010688	0.006044	0.001674	0.016742
18-Jun-2031	1.592824	10.786000	16.927000	2.585520	37.579813	1.425870	0.015894	0.154404	0.040013	0.003020	0.001658	0.107127	0.000519	0.010592	0.005979	0.001657	0.016573
19-Jun-2031	1.804261	10.688200	16.761200	2.565620	37.253659	1.410410	0.015730	0.152786	0.039852	0.002989	0.001650	0.106485	0.000514	0.010511	0.005923	0.001643	0.016427
20-Jun-2031	1.942318	10.559800	16.541600	2.539910	36.827170	1.389750	0.015512	0.150628	0.039612	0.002949	0.001638	0.105636	0.000507	0.010407	0.005849	0.001623	0.016234
21-Jun-2031	2.034489	10.440500	16.336700	2.516230	36.431764	1.370390	0.015309	0.148609	0.039373	0.002912	0.001628	0.104779	0.000500	0.010312	0.005780	0.001606	0.016056
22-Jun-2031	2.088368	10.284900	16.068900	2.485490	35.916643	1.345050	0.015043	0.145969	0.039106	0.002864	0.001616	0.103803	0.000491	0.010189	0.005691	0.001582	0.015823
23-Jun-2031	2.153100	10.145300	15.828200	2.457830	35.454158	1.322290	0.014804	0.143596	0.038930	0.002821	0.001607	0.103093	0.000484	0.010079	0.005610	0.001561	0.015614
24-Jun-2031	2.237020	9.958810	15.500200	2.422510	34.843045	1.290590	0.014473	0.140298	0.038910	0.002763	0.001595	0.102137	0.000473	0.009940	0.005502	0.001533	0.015333
25-Jun-2031	2.342194	9.817010	15.253000	2.395060	34.375931	1.266940	0.014226	0.137838	0.038772	0.002719	0.001585	0.101299	0.000465	0.009831	0.005421	0.001512	0.015119
26-Jun-2031	2.433269	9.709690	15.062500	2.374960	34.025181	1.248470	0.014035	0.135920	0.038489	0.002687	0.001578	0.100719	0.000458	0.009754	0.005358	0.001496	0.014958
27-Jun-2031	2.531569	9.582230	14.841800	2.349890	33.603675	1.227520	0.013815	0.133742	0.038356	0.002648	0.001568	0.099921	0.000451	0.009654	0.005285	0.001477	0.014767
28-Jun-2031	2.677068	9.440390	14.598700	2.321280	33.131685	1.204770	0.013577	0.131380	0.037900	0.002606	0.001559	0.099298	0.000443	0.009541	0.005204	0.001456	0.014555
29-Jun-2031	2.853750	9.329700	14.404000	2.300170	32.768361	1.186030	0.013382	0.129437	0.037748	0.002573	0.001551	0.098604	0.000437	0.009458	0.005140	0.001439	0.014389
30-Jun-2031	3.031990	9.201230	14.177600	2.275810	32.347257	1.164180	0.013155	0.127171	0.037486	0.002534	0.001542	0.097883	0.000430	0.009363	0.005066	0.001420	0.014195
1-Jul-2031	4.448279	6.950760	10.289700	1.826720	24.878481	0.797141	0.009303	0.089001	0.033726	0.001862	0.001387	0.086505	0.000303	0.007610	0.003777	0.001082	0.010820
2-Jul-2031	6.262561	7.057760	10.447700	1.850760	25.244656	0.810641	0.009446	0.090376	0.033924	0.001908	0.001387	0.088496	0.000308	0.007759	0.003841	0.001097	0.010971
3-Jul-2031	7.142618	7.201340	10.681100	1.872450	25.692495	0.833269	0.009679	0.092671	0.034290	0.001975	0.001392	0.088379	0.000316	0.007903	0.003933	0.001118	0.011175
4-Jul-2031	8.026402	7.277470	10.822700	1.885400	25.935920	0.847253	0.009818	0.094069	0.034311	0.001990	0.001394	0.088403	0.000321	0.007945	0.003976	0.001129	0.011291
5-Jul-2031	8.625369	7.270780	10.792100	1.885960	25.921521	0.843955	0.009793	0.093796	0.034386	0.002007	0.001397	0.089082	0.000320	0.007965	0.003974	0.001127	0.011271
6-Jul-2031	8.547622	7.300240	10.845100	1.891770	26.019008	0.849013	0.009844	0.094303	0.034390	0.002015	0.001399	0.089162	0.000321	0.007983	0.003990	0.001131	0.011313
7-Jul-2031	8.603743	7.323420	10.893400	1.896700	26.097190	0.853586	0.009887	0.094740	0.034319	0.002014	0.001399	0.088847	0.000323	0.007985	0.004002	0.001135	0.011350
8-Jul-2031	8.960461	7.317670	10.885600	1.896860	26.083491	0.852661	0.009877	0.094634	0.034239	0.002009	0.001399	0.088675	0.000323	0.007972	0.003997	0.001134	0.011341
9-Jul-2031	10.196959	7.360770	10.950100	1.904040	26.220679	0.859229	0.009949	0.095351	0.034384	0.002040	0.001402	0.089690	0.000325	0.008024	0.004025	0.001140	0.011399
10-Jul-2031	11.458581	7.645130	11.466100	1.947660	27.110353	0.911048	0.010468	0.100545	0.034802	0.002130	0.001408	0.090708	0.000342	0.008241	0.004198	0.001183	0.011827
11-Jul-2031	12.408491	7.674700	11.521600	1.952400	27.203709	0.916600	0.010523	0.101095	0.034818	0.002138	0.001408	0.090707	0.000344	0.008260	0.004215	0.001187	0.011872
12-Jul-2031	12.391643	7.543230	11.288200	1.933160	26.796198	0.893042	0.010285	0.098709	0.034524	0.002090	0.001405	0.089960	0.000336	0.008146	0.004133	0.001167	0.011675

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Jul-2031	12.105545	7.644060	11.472400	1.948730	27.112088	0.911541	0.010470	0.100559	0.034656	0.002121	0.001407	0.090255	0.000342	0.008221	0.004194	0.001183	0.011827
14-Jul-2031	13.219730	7.906110	11.950900	1.988750	27.931229	0.959575	0.010949	0.105354	0.035024	0.002201	0.001412	0.090995	0.000358	0.008416	0.004353	0.001222	0.012223
15-Jul-2031	14.337640	7.830930	11.813400	1.977480	27.697095	0.945758	0.010811	0.103975	0.034907	0.002179	0.001411	0.090845	0.000354	0.008359	0.004307	0.001211	0.012109
16-Jul-2031	14.982496	8.390890	12.837700	2.063480	29.449463	1.048570	0.011837	0.114248	0.035666	0.002347	0.001422	0.092314	0.000388	0.008772	0.004646	0.001296	0.012957
17-Jul-2031	15.001243	8.405800	12.862200	2.065890	29.496618	1.051020	0.011862	0.114487	0.035700	0.002355	0.001423	0.092517	0.000389	0.008787	0.004656	0.001298	0.012978
18-Jul-2031	14.153881	7.921190	11.979600	1.993320	27.987703	0.962349	0.010976	0.105620	0.034903	0.002207	0.001413	0.091077	0.000359	0.008413	0.004360	0.001224	0.012242
19-Jul-2031	15.158523	8.054690	12.223800	2.013800	28.405389	0.986862	0.011221	0.108064	0.035078	0.002248	0.001415	0.091445	0.000368	0.008512	0.004440	0.001244	0.012443
20-Jul-2031	14.807168	7.928980	11.994800	1.996240	28.019179	0.963738	0.010990	0.105746	0.034807	0.002210	0.001413	0.091110	0.000360	0.008409	0.004362	0.001225	0.012249
21-Jul-2031	14.497449	8.256910	12.593800	2.046110	29.043385	1.023910	0.011590	0.111753	0.035276	0.002310	0.001420	0.092027	0.000380	0.008654	0.004561	0.001275	0.012746
22-Jul-2031	15.244647	8.212650	12.513000	2.039650	28.906266	1.015780	0.011509	0.110944	0.035197	0.002296	0.001419	0.091912	0.000377	0.008619	0.004534	0.001268	0.012679
23-Jul-2031	15.934362	8.199090	12.488900	2.039070	28.870018	1.013250	0.011484	0.110683	0.035093	0.002293	0.001419	0.091888	0.000376	0.008601	0.004524	0.001266	0.012656
24-Jul-2031	16.105887	8.066640	12.247000	2.019740	28.459689	0.988903	0.011241	0.108246	0.034855	0.002254	0.001416	0.091556	0.000368	0.008497	0.004443	0.001245	0.012452
25-Jul-2031	16.673815	8.158430	12.414100	2.034200	28.748435	1.005670	0.011408	0.109919	0.034963	0.002283	0.001418	0.091889	0.000374	0.008564	0.004498	0.001259	0.012590
26-Jul-2031	17.783087	8.294010	12.662800	2.055020	29.172715	1.030620	0.011657	0.112408	0.035138	0.002323	0.001421	0.092190	0.000382	0.008663	0.004580	0.001280	0.012796
27-Jul-2031	17.572923	8.332160	12.731400	2.061920	29.296390	1.037460	0.011725	0.113088	0.035141	0.002337	0.001422	0.092412	0.000385	0.008687	0.004602	0.001285	0.012850
28-Jul-2031	15.769328	8.387110	12.833600	2.070090	29.467244	1.047730	0.011827	0.114109	0.035205	0.002352	0.001423	0.092455	0.000388	0.008726	0.004636	0.001294	0.012935
29-Jul-2031	15.235068	8.485540	13.013400	2.085410	29.776112	1.065770	0.012007	0.115912	0.035327	0.002382	0.001425	0.092746	0.000394	0.008798	0.004695	0.001308	0.013084
30-Jul-2031	15.482017	8.534540	13.103900	2.093180	29.930462	1.074820	0.012097	0.116808	0.035371	0.002396	0.001426	0.092831	0.000397	0.008832	0.004724	0.001316	0.013157
31-Jul-2031	15.150315	8.391960	12.845200	2.072900	29.490926	1.048720	0.011835	0.114187	0.035070	0.002352	0.001423	0.092385	0.000388	0.008715	0.004636	0.001294	0.012939
1-Aug-2031	14.358832	8.427910	12.911500	2.078830	29.605113	1.055360	0.011901	0.114847	0.035086	0.002363	0.001423	0.092471	0.000391	0.008738	0.004657	0.001299	0.012993
2-Aug-2031	13.232923	8.596210	13.219300	2.104870	30.132591	1.086260	0.012209	0.117926	0.035294	0.002414	0.001427	0.092952	0.000401	0.008861	0.004759	0.001325	0.013247
3-Aug-2031	12.339272	8.589040	13.206400	2.104660	30.113823	1.084910	0.012195	0.117784	0.035232	0.002413	0.001427	0.092956	0.000401	0.008851	0.004753	0.001323	0.013234
4-Aug-2031	11.534319	8.610550	13.245400	2.108930	30.185117	1.088710	0.012233	0.118156	0.035220	0.002420	0.001427	0.093050	0.000402	0.008863	0.004765	0.001327	0.013265
5-Aug-2031	12.514019	8.572930	13.178500	2.105210	30.075861	1.081740	0.012161	0.117430	0.035064	0.002407	0.001427	0.092878	0.000400	0.008823	0.004740	0.001320	0.013205
6-Aug-2031	13.094991	8.741460	13.483900	2.131320	30.604201	1.112330	0.012467	0.120494	0.035307	0.002460	0.001431	0.093484	0.000410	0.008951	0.004842	0.001346	0.013459
7-Aug-2031	12.680713	8.854510	13.690600	2.148760	30.958305	1.133050	0.012674	0.122560	0.035459	0.002494	0.001433	0.093790	0.000417	0.009034	0.004911	0.001363	0.013630
8-Aug-2031	12.869721	8.833590	13.652200	2.145890	30.894249	1.129170	0.012635	0.122171	0.035415	0.002488	0.001433	0.093757	0.000415	0.009017	0.004897	0.001360	0.013598
9-Aug-2031	12.280334	8.890800	13.759100	2.156150	31.079353	1.139690	0.012738	0.123194	0.035395	0.002503	0.001435	0.093791	0.000419	0.009048	0.004930	0.001368	0.013683
10-Aug-2031	11.553779	8.836390	13.660800	2.149220	30.914954	1.129650	0.012637	0.122177	0.035249	0.002486	0.001434	0.093604	0.000416	0.009000	0.004895	0.001360	0.013600
11-Aug-2031	10.679491	8.854520	13.693200	2.153040	30.975955	1.132780	0.012667	0.122478	0.035226	0.002492	0.001434	0.093719	0.000417	0.009009	0.004905	0.001362	0.013625
12-Aug-2031	10.673794	8.850460	13.686500	2.153390	30.967259	1.131970	0.012658	0.122384	0.035173	0.002490	0.001435	0.093670	0.000417	0.009001	0.004902	0.001362	0.013617
13-Aug-2031	10.839013	9.122330	14.183000	2.196150	31.822204	1.181650	0.013153	0.127333	0.035511	0.002573	0.001441	0.094466	0.000433	0.009198	0.005065	0.001403	0.014028
14-Aug-2031	10.918723	8.944190	13.856700	2.170110	31.270155	1.148780	0.012824	0.124036	0.035196	0.002521	0.001437	0.094049	0.000422	0.009061	0.004956	0.001375	0.013755
15-Aug-2031	10.073500	9.027030	14.007200	2.183340	31.531488	1.163820	0.012974	0.125534	0.035297	0.002547	0.001439	0.094340	0.000427	0.009122	0.005006	0.001388	0.013879
16-Aug-2031	10.140360	9.080770	14.103200	2.193550	31.707722	1.173260	0.013067	0.126456	0.035294	0.002567	0.001441	0.094692	0.000430	0.009155	0.005037	0.001396	0.013955
17-Aug-2031	11.070879	9.112480	14.160000	2.199560	31.811651	1.178840	0.013122	0.126998	0.035288	0.002579	0.001442	0.094917	0.000432	0.009175	0.005055	0.001400	0.013999
18-Aug-2031	10.575717	9.126490	14.187900	2.201950	31.856476	1.181540	0.013148	0.127262	0.035277	0.002580	0.001443	0.094759	0.000433	0.009181	0.005063	0.001402	0.014023
19-Aug-2031	10.386796	9.118450	14.174400	2.201780	31.835700	1.180040	0.013132	0.127095	0.035208	0.002576	0.001443	0.094669	0.000433	0.009168	0.005056	0.001401	0.014010
20-Aug-2031	9.953350	9.173980	14.275200	2.211810	32.015662	1.189980	0.013230	0.128066	0.035221	0.002594	0.001444	0.094904	0.000436	0.009203	0.005088	0.001409	0.014091
21-Aug-2031	9.854823	9.248690	14.412100	2.223310	32.249570	1.203660	0.013366	0.129434	0.035323	0.002615	0.001446	0.095070	0.000441	0.009259	0.005134	0.001421	0.014205
22-Aug-2031	8.604477	9.285840	14.479900	2.229700	32.368647	1.210400	0.013433	0.130096	0.035339	0.002628	0.001447	0.095207	0.000443	0.009283	0.005155	0.001426	0.014260
23-Aug-2031	8.200309	9.323440	14.549600	2.236550	32.490743	1.217230	0.013500	0.130761	0.035335	0.002637	0.001448	0.095247	0.000445	0.009304	0.005177	0.001432	0.014316
24-Aug-2031	8.051045	9.451750	14.783200	2.256500	32.893287	1.240590	0.013733	0.133094	0.035516	0.002677	0.001451	0.095642	0.000453	0.009400	0.005254	0.001451	0.014510
25-Aug-2031	8.245934	9.567680	14.996200	2.275400	33.260594	1.261800	0.013944	0.135204	0.035641	0.002710	0.001454	0.095913	0.000460	0.009480	0.005323	0.001469	0.014686
26-Aug-2031	9.011954	9.930670	15.657700	2.330240	34.392811	1.328280	0.014607	0.141838	0.036174	0.002822	0.001461	0.096994	0.000482	0.009755	0.005544	0.001523	0.015235
27-Aug-2031	9.137138	9.511260	14.888600	2.270690	33.100318	1.250590	0.013828	0.134024	0.035420	0.002701	0.001454	0.096148	0.000457	0.009425	0.005285	0.001459	0.014589
28-Aug-2031	9.427590	9.586190	15.027500	2.281950	33.333787	1.264530	0.013967	0.135415	0.035481	0.002721	0.001455	0.096221	0.000461	0.009479	0.005331	0.001470	0.014704
29-Aug-2031	9.090189	9.562060	14.985000	2.278730	33.260274	1.260160	0.013923	0.134972	0.035413	0.002711	0.001455	0.096038	0.000460	0.009457	0.005315	0.001467	0.014668
30-Aug-2031	9.272494	9.623040	15.095500	2.288450	33.452568	1.271170	0.014033	0.136070	0.035496	0.002730	0.001456	0.096249	0.000464	0.009502	0.005352	0.001476	0.014760
31-Aug-2031	9.999101	10.006100	15.795100	2.347300	34.651413	1.341360	0.014732	0.143069	0.036024	0.002847	0.001464	0.097340	0.000487	0.009787	0.005584	0.001534	0.015340
1-Sep-2031	10.139334	9.998730	15.781800	2.348020	34.635975	1.339760	0.014715	0.142890	0.035950	0.002844	0.001465	0.097323	0.000486	0.009773	0.005578	0.001533	0.015327
2-Sep-2031	10.165647	10.001500	15.786700	2.348530	34.644992	1.340260	0.014720	0.142931	0.035928	0.002846	0.001465	0.097358	0.000487	0.009774	0.005579	0.001533	0.015330

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
3-Sep-2031	9.204006	9.885410	15.575000	2.331480	34.284903	1.318940	0.014506	0.140795	0.035725	0.002811	0.001463	0.097044	0.000480	0.009684	0.005508	0.001515	0.015153
4-Sep-2031	8.647811	9.877010	15.559100	2.331230	34.262899	1.317320	0.014489	0.140617	0.035659	0.002812	0.001462	0.097178	0.000479	0.009674	0.005502	0.001514	0.015137
5-Sep-2031	7.456523	9.823040	15.462800	2.322700	34.093009	1.307720	0.014392	0.139653	0.035550	0.002793	0.001461	0.096869	0.000476	0.009630	0.005469	0.001506	0.015055
6-Sep-2031	7.498946	9.843620	15.501800	2.326060	34.158234	1.311640	0.014431	0.140037	0.035549	0.002798	0.001461	0.096871	0.000477	0.009642	0.005481	0.001509	0.015086
7-Sep-2031	7.769141	9.957830	15.708700	2.344200	34.518117	1.332420	0.014637	0.142097	0.035672	0.002837	0.001463	0.097373	0.000484	0.009726	0.005550	0.001526	0.015255
8-Sep-2031	7.333240	9.992150	15.772600	2.349190	34.624363	1.338860	0.014701	0.142744	0.035724	0.002846	0.001464	0.097390	0.000486	0.009751	0.005571	0.001531	0.015309
9-Sep-2031	6.911996	9.973760	15.740500	2.346730	34.568313	1.335630	0.014668	0.142411	0.035660	0.002840	0.001463	0.097287	0.000485	0.009733	0.005559	0.001528	0.015280
10-Sep-2031	6.186219	10.049600	15.879300	2.358530	34.806278	1.349600	0.014807	0.143798	0.035742	0.002864	0.001464	0.097528	0.000490	0.009788	0.005605	0.001539	0.015394
11-Sep-2031	5.383841	10.087100	15.948400	2.364450	34.924294	1.356500	0.014875	0.144485	0.035781	0.002875	0.001465	0.097601	0.000492	0.009814	0.005628	0.001545	0.015450
12-Sep-2031	5.009640	10.121200	16.011500	2.369530	35.030361	1.362890	0.014939	0.145123	0.035823	0.002885	0.001466	0.097655	0.000494	0.009838	0.005648	0.001550	0.015502
13-Sep-2031	4.621692	10.216400	16.186000	2.384300	35.328898	1.380400	0.015113	0.146865	0.035936	0.002914	0.001467	0.097923	0.000500	0.009908	0.005706	0.001565	0.015645
14-Sep-2031	3.968438	10.206900	16.169600	2.382960	35.299659	1.378810	0.015096	0.146700	0.035898	0.002911	0.001467	0.097879	0.000500	0.009898	0.005700	0.001563	0.015630
15-Sep-2031	3.520192	10.299200	16.339100	2.396780	35.587042	1.395900	0.015267	0.148408	0.036030	0.002939	0.001468	0.098102	0.000505	0.009967	0.005756	0.001577	0.015771
16-Sep-2031	3.573774	10.435400	16.588600	2.417470	36.012335	1.420970	0.015517	0.150918	0.036228	0.002979	0.001471	0.098446	0.000514	0.010068	0.005839	0.001598	0.015978
17-Sep-2031	3.481940	10.420400	16.562600	2.415330	35.966068	1.418430	0.015490	0.150648	0.036162	0.002975	0.001470	0.098387	0.000513	0.010053	0.005830	0.001595	0.015954
18-Sep-2031	2.800867	10.471400	16.657300	2.422370	36.122405	1.428190	0.015587	0.151618	0.036216	0.002992	0.001470	0.098516	0.000516	0.010089	0.005861	0.001603	0.016030
19-Sep-2031	2.520164	10.529800	16.763900	2.431490	36.305786	1.438890	0.015693	0.152684	0.036289	0.003011	0.001471	0.098709	0.000519	0.010133	0.005896	0.001612	0.016118
20-Sep-2031	2.455271	10.748700	17.164200	2.464700	36.989139	1.479080	0.016095	0.156709	0.036621	0.003076	0.001476	0.099270	0.000533	0.010297	0.006029	0.001645	0.016451
21-Sep-2031	2.289397	10.624500	16.938600	2.446610	36.604516	1.456400	0.015867	0.154419	0.036366	0.003039	0.001473	0.098930	0.000525	0.010197	0.005953	0.001626	0.016260
22-Sep-2031	2.310016	10.557400	16.814600	2.438270	36.402624	1.443710	0.015738	0.153121	0.036188	0.003021	0.001472	0.098868	0.000521	0.010141	0.005910	0.001615	0.016153
23-Sep-2031	2.092645	10.623500	16.936100	2.447770	36.606796	1.456010	0.015861	0.154360	0.036300	0.003040	0.001473	0.099006	0.000525	0.010192	0.005951	0.001625	0.016255
24-Sep-2031	1.941139	10.644100	16.974900	2.451240	36.672524	1.459900	0.015899	0.154738	0.036291	0.003046	0.001473	0.099016	0.000527	0.010203	0.005963	0.001629	0.016285
25-Sep-2031	2.090546	10.822700	17.302100	2.478310	37.229962	1.492770	0.016228	0.158035	0.036570	0.003099	0.001477	0.099459	0.000537	0.010337	0.006072	0.001656	0.016558
26-Sep-2031	2.180974	10.917300	17.474300	2.492860	37.526096	1.510060	0.016400	0.159747	0.036683	0.003129	0.001479	0.099770	0.000543	0.010407	0.006129	0.001670	0.016699
27-Sep-2031	2.079028	10.819400	17.296900	2.477890	37.219993	1.492310	0.016222	0.157976	0.036532	0.003098	0.001476	0.099449	0.000537	0.010332	0.006069	0.001655	0.016551
28-Sep-2031	2.140051	11.080600	17.774000	2.517780	38.036476	1.540190	0.016700	0.162752	0.036896	0.003178	0.001482	0.100177	0.000553	0.010527	0.006228	0.001695	0.016946
29-Sep-2031	1.848869	10.919000	17.480900	2.493130	37.531452	1.510890	0.016406	0.159820	0.036636	0.003128	0.001478	0.099668	0.000544	0.010402	0.006130	0.001670	0.016701
30-Sep-2031	1.712650	10.908400	17.462300	2.491290	37.497407	1.509030	0.016388	0.159644	0.036634	0.003124	0.001477	0.099581	0.000543	0.010394	0.006123	0.001669	0.016687
1-Oct-2031	1.364587	10.892300	17.433300	2.489540	37.449999	1.506060	0.016358	0.159331	0.036561	0.003119	0.001477	0.099539	0.000542	0.010378	0.006113	0.001666	0.016660
2-Oct-2031	1.210782	10.803600	17.272000	2.476000	37.172757	1.489900	0.016196	0.157713	0.036420	0.003093	0.001475	0.099282	0.000537	0.010310	0.006059	0.001653	0.016525
3-Oct-2031	1.085055	10.758000	17.189500	2.468860	37.029491	1.481700	0.016114	0.156892	0.036362	0.003079	0.001474	0.099153	0.000534	0.010275	0.006031	0.001646	0.016456
4-Oct-2031	0.384514	10.713100	17.108000	2.461570	36.887356	1.473620	0.016033	0.156088	0.036288	0.003065	0.001472	0.099035	0.000531	0.010242	0.006004	0.001639	0.016389
5-Oct-2031	0.050996	10.689700	17.065300	2.457950	36.814019	1.469370	0.015991	0.155666	0.036257	0.003059	0.001472	0.098971	0.000530	0.010225	0.005990	0.001635	0.016353
6-Oct-2031	0.083355	10.678600	17.046500	2.455810	36.777490	1.467610	0.015973	0.155489	0.036247	0.003055	0.001471	0.098919	0.000529	0.010216	0.005984	0.001634	0.016337
7-Oct-2031	0.028409	10.670200	17.030200	2.454620	36.751615	1.465910	0.015956	0.155324	0.036239	0.003053	0.001471	0.098864	0.000528	0.010211	0.005979	0.001632	0.016325
8-Oct-2031	0.019066	10.623600	16.946700	2.446760	36.602887	1.457730	0.015874	0.154508	0.036169	0.003039	0.001469	0.098751	0.000526	0.010176	0.005951	0.001625	0.016254
9-Oct-2031	0.127134	10.615500	16.932100	2.445540	36.577637	1.456360	0.015860	0.154363	0.036134	0.003038	0.001469	0.098739	0.000525	0.010168	0.005946	0.001624	0.016241
10-Oct-2031	0.046300	10.610500	16.923700	2.444440	36.560622	1.455560	0.015852	0.154286	0.036132	0.003036	0.001468	0.098659	0.000525	0.010165	0.005943	0.001623	0.016234
11-Oct-2031	0.016315	10.580700	16.871400	2.439000	36.463810	1.450550	0.015801	0.153782	0.036083	0.003027	0.001467	0.098543	0.000523	0.010141	0.005926	0.001619	0.016189
12-Oct-2031	0.049173	10.555900	16.825900	2.435140	36.385989	1.446000	0.015756	0.153333	0.036056	0.003019	0.001466	0.098501	0.000522	0.010123	0.005911	0.001615	0.016152
13-Oct-2031	0.023408	10.538500	16.796000	2.431800	36.328787	1.443200	0.015727	0.153048	0.036018	0.003014	0.001465	0.098421	0.000521	0.010109	0.005901	0.001613	0.016125
14-Oct-2031	0.019750	10.508300	16.740500	2.427160	36.234270	1.437650	0.015672	0.152499	0.035981	0.003006	0.001464	0.098321	0.000519	0.010087	0.005883	0.001608	0.016080
15-Oct-2031	0.023021	10.493400	16.715400	2.424710	36.186976	1.435350	0.015648	0.152263	0.035955	0.003002	0.001464	0.098314	0.000518	0.010075	0.005874	0.001606	0.016058
16-Oct-2031	0.024571	10.492800	16.714000	2.424510	36.184654	1.435160	0.015646	0.152247	0.035958	0.003001	0.001463	0.098305	0.000518	0.010075	0.005874	0.001606	0.016057
17-Oct-2031	0.025654	10.505100	16.734600	2.426660	36.224221	1.437040	0.015666	0.152441	0.035983	0.003004	0.001465	0.098427	0.000519	0.010085	0.005881	0.001608	0.016075
18-Oct-2031	0.026315	10.593800	16.874800	2.447490	36.531482	1.448960	0.015797	0.153711	0.036299	0.003030	0.001478	0.099341	0.000523	0.010172	0.005930	0.001621	0.016211
19-Oct-2031	0.027222	10.665500	16.986400	2.464950	36.782418	1.458330	0.015900	0.154711	0.036543	0.003052	0.001488	0.100096	0.000527	0.010242	0.005970	0.001632	0.016320
20-Oct-2031	0.028986	10.675600	17.002900	2.467100	36.816491	1.459710	0.015916	0.154865	0.036603	0.003053	0.001490	0.099974	0.000527	0.010253	0.005976	0.001634	0.016337
21-Oct-2031	0.028802	10.706100	17.052100	2.473950	36.920858	1.464010	0.015962	0.155317	0.036699	0.003062	0.001494	0.100506	0.000529	0.010281	0.005993	0.001638	0.016383
22-Oct-2031	0.028745	10.734800	17.097400	2.480680	37.020236	1.467890	0.016005	0.155728	0.036794	0.003070	0.001498	0.100791	0.000530	0.010309	0.006009	0.001643	0.016427
23-Oct-2031	0.029070	10.790100	17.185600	2.493440	37.210866	1.475460	0.016087	0.156531	0.036982	0.003086	0.001505	0.101039	0.000533	0.010362	0.006040	0.001651	0.016511
24-Oct-2031	0.029304	10.839300	17.264600	2.504610	37.379716	1.482310	0.016161	0.157255	0.037146	0.003100	0.001512	0.101482	0.000535	0.010408	0.006067	0.001659	0.016587

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-Oct-2031	0.029189	10.887400	17.342300	2.515410	37.544296	1.489080	0.016234	0.157968	0.037305	0.003114	0.001518	0.101910	0.000538	0.010454	0.006095	0.001666	0.016660
26-Oct-2031	0.029128	10.932700	17.415100	2.525620	37.699455	1.495430	0.016303	0.158636	0.037450	0.003127	0.001524	0.102300	0.000540	0.010496	0.006120	0.001673	0.016729
27-Oct-2031	0.029634	10.984600	17.498000	2.537610	37.878424	1.502540	0.016381	0.159391	0.037628	0.003142	0.001531	0.102782	0.000542	0.010546	0.006149	0.001681	0.016809
28-Oct-2031	0.029913	11.042100	17.589400	2.550890	38.076689	1.510390	0.016466	0.160224	0.037824	0.003158	0.001539	0.103321	0.000545	0.010601	0.006181	0.001690	0.016897
29-Oct-2031	0.029554	11.073800	17.638800	2.558610	38.187635	1.514500	0.016512	0.160666	0.037943	0.003167	0.001544	0.103658	0.000547	0.010633	0.006199	0.001695	0.016945
30-Oct-2031	0.029974	11.102900	17.683900	2.565720	38.289576	1.518260	0.016554	0.161070	0.038053	0.003176	0.001549	0.103969	0.000548	0.010662	0.006215	0.001699	0.016990
31-Oct-2031	0.030550	11.128600	17.724800	2.571680	38.378292	1.521760	0.016592	0.161442	0.038140	0.003183	0.001553	0.104213	0.000549	0.010687	0.006229	0.001703	0.017029
1-Nov-2031	0.030838	11.177300	17.802500	2.582850	38.545894	1.528460	0.016665	0.162152	0.038305	0.003197	0.001559	0.104661	0.000552	0.010733	0.006257	0.001710	0.017104
2-Nov-2031	0.030804	11.243200	17.907800	2.598000	38.772834	1.537530	0.016763	0.163112	0.038528	0.003216	0.001568	0.105271	0.000555	0.010796	0.006293	0.001720	0.017205
3-Nov-2031	0.030320	11.306400	18.008300	2.612640	38.990932	1.546150	0.016857	0.164027	0.038745	0.003234	0.001577	0.105868	0.000558	0.010857	0.006329	0.001730	0.017301
4-Nov-2031	0.029486	11.246600	17.912700	2.598980	38.785360	1.537890	0.016768	0.163153	0.038544	0.003217	0.001569	0.105323	0.000555	0.010800	0.006295	0.001721	0.017210
5-Nov-2031	0.029190	11.301400	17.999800	2.611680	38.974494	1.545350	0.016849	0.163945	0.038733	0.003233	0.001577	0.105841	0.000558	0.010853	0.006326	0.001729	0.017294
6-Nov-2031	0.029486	11.364300	18.099700	2.626320	39.191843	1.553900	0.016943	0.164854	0.038951	0.003251	0.001586	0.106440	0.000561	0.010914	0.006361	0.001739	0.017390
7-Nov-2031	0.029879	11.428900	18.202200	2.641340	39.415001	1.562670	0.017038	0.165786	0.039174	0.003269	0.001595	0.107056	0.000564	0.010976	0.006397	0.001749	0.017489
8-Nov-2031	0.029805	11.490100	18.299400	2.655580	39.626458	1.570990	0.017129	0.166669	0.039386	0.003287	0.001603	0.107639	0.000567	0.011035	0.006431	0.001758	0.017582
9-Nov-2031	0.029241	11.549000	18.392900	2.669250	39.829825	1.578990	0.017217	0.167520	0.039589	0.003304	0.001612	0.108198	0.000570	0.011092	0.006464	0.001767	0.017672
10-Nov-2031	0.028981	11.607100	18.485400	2.682750	40.030493	1.586910	0.017303	0.168360	0.039789	0.003320	0.001620	0.108750	0.000573	0.011148	0.006497	0.001776	0.017761
11-Nov-2031	0.028742	11.646200	18.547400	2.691870	40.165682	1.592220	0.017361	0.168924	0.039924	0.003332	0.001626	0.109126	0.000575	0.011185	0.006519	0.001782	0.017821
12-Nov-2031	0.028726	11.686800	18.611900	2.701300	40.305893	1.597740	0.017421	0.169510	0.040063	0.003343	0.001631	0.109512	0.000577	0.011224	0.006541	0.001788	0.017883
13-Nov-2031	0.028901	11.735500	18.689400	2.712580	40.473948	1.604390	0.017494	0.170216	0.040229	0.003357	0.001638	0.109971	0.000579	0.011271	0.006569	0.001796	0.017958
14-Nov-2031	0.028954	11.787700	18.772600	2.724660	40.654037	1.611530	0.017572	0.170974	0.040408	0.003372	0.001645	0.110461	0.000582	0.011321	0.006598	0.001804	0.018037
15-Nov-2031	0.028686	11.843900	18.862200	2.737620	40.847737	1.619240	0.017656	0.171790	0.040599	0.003388	0.001653	0.110987	0.000585	0.011375	0.006629	0.001812	0.018123
16-Nov-2031	0.028279	11.889100	18.934200	2.748000	41.003347	1.625430	0.017723	0.172447	0.040752	0.003401	0.001659	0.111407	0.000587	0.011418	0.006655	0.001819	0.018192
17-Nov-2031	0.028057	11.916500	18.977700	2.754400	41.098120	1.629160	0.017764	0.172842	0.040845	0.003409	0.001663	0.111671	0.000588	0.011445	0.006670	0.001823	0.018234
18-Nov-2031	0.028012	11.953900	19.037400	2.763020	41.227005	1.634300	0.017820	0.173386	0.040971	0.003420	0.001668	0.112021	0.000590	0.011480	0.006691	0.001829	0.018291
19-Nov-2031	0.028024	11.997700	19.107300	2.773080	41.377800	1.640320	0.017885	0.174024	0.041119	0.003432	0.001674	0.112425	0.000592	0.011522	0.006715	0.001836	0.018358
20-Nov-2031	0.027918	12.042400	19.178500	2.783450	41.532120	1.646430	0.017952	0.174672	0.041273	0.003445	0.001681	0.112847	0.000594	0.011565	0.006740	0.001843	0.018427
21-Nov-2031	0.027624	12.099700	19.269500	2.796760	41.730009	1.654210	0.018037	0.175499	0.041470	0.003462	0.001689	0.113393	0.000597	0.011620	0.006772	0.001851	0.018514
22-Nov-2031	0.027437	12.166300	19.375300	2.812250	41.960097	1.663280	0.018136	0.176462	0.041699	0.003481	0.001698	0.114028	0.000601	0.011684	0.006810	0.001862	0.018616
23-Nov-2031	0.027313	12.225900	19.469900	2.826110	42.165993	1.671370	0.018224	0.177321	0.041903	0.003498	0.001707	0.114600	0.000603	0.011742	0.006843	0.001871	0.018707
24-Nov-2031	0.027228	12.283400	19.561400	2.839470	42.364587	1.679210	0.018310	0.178153	0.042100	0.003515	0.001715	0.115147	0.000606	0.011797	0.006875	0.001880	0.018795
25-Nov-2031	0.027136	12.270500	19.540900	2.836470	42.320022	1.677460	0.018291	0.177967	0.042056	0.003511	0.001713	0.115024	0.000606	0.011785	0.006868	0.001878	0.018776
26-Nov-2031	0.026957	12.309900	19.603400	2.845620	42.456083	1.682810	0.018349	0.178535	0.042191	0.003522	0.001718	0.115401	0.000608	0.011823	0.006890	0.001884	0.018836
27-Nov-2031	0.026870	12.354600	19.674200	2.856100	42.610856	1.688850	0.018415	0.179177	0.042346	0.003535	0.001725	0.115837	0.000610	0.011866	0.006915	0.001890	0.018904
28-Nov-2031	0.026807	12.413100	19.767200	2.869670	42.812812	1.696830	0.018502	0.180024	0.042546	0.003552	0.001733	0.116392	0.000613	0.011922	0.006948	0.001899	0.018993
29-Nov-2031	0.026615	12.462000	19.845200	2.880980	42.981490	1.703520	0.018575	0.180734	0.042713	0.003566	0.001740	0.116851	0.000615	0.011969	0.006975	0.001907	0.019068
30-Nov-2031	0.026517	12.501300	19.907100	2.890230	43.117713	1.708780	0.018633	0.181294	0.042850	0.003577	0.001746	0.117241	0.000617	0.012007	0.006997	0.001913	0.019128
1-Dec-2031	0.026523	12.555100	19.992200	2.902860	43.304062	1.716030	0.018712	0.182066	0.043037	0.003593	0.001753	0.117769	0.000620	0.012059	0.007027	0.001921	0.019210
2-Dec-2031	0.026399	12.611100	20.080900	2.915950	43.497799	1.723610	0.018795	0.182871	0.043230	0.003609	0.001761	0.118312	0.000622	0.012114	0.007058	0.001930	0.019296
3-Dec-2031	0.026234	12.638100	20.123500	2.922310	43.591408	1.727240	0.018835	0.183257	0.043324	0.003617	0.001765	0.118580	0.000624	0.012140	0.007073	0.001934	0.019337
4-Dec-2031	0.026256	12.690000	20.206000	2.934440	43.770954	1.734280	0.018912	0.184006	0.043504	0.003632	0.001773	0.119080	0.000626	0.012190	0.007102	0.001942	0.019417
5-Dec-2031	0.026261	12.757700	20.313400	2.950170	44.004777	1.743480	0.019012	0.184983	0.043737	0.003652	0.001782	0.119726	0.000630	0.012255	0.007140	0.001952	0.019520
6-Dec-2031	0.026224	12.816700	20.407100	2.963910	44.208681	1.751490	0.019100	0.185833	0.043940	0.003668	0.001791	0.120291	0.000632	0.012312	0.007173	0.001961	0.019610
7-Dec-2031	0.026191	12.891700	20.526200	2.981320	44.467651	1.761700	0.019211	0.186917	0.044198	0.003690	0.001801	0.121004	0.000636	0.012384	0.007215	0.001972	0.019725
8-Dec-2031	0.026187	12.974400	20.657800	3.000500	44.753136	1.772970	0.019334	0.188114	0.044482	0.003714	0.001813	0.121787	0.000640	0.012464	0.007261	0.001985	0.019851
9-Dec-2031	0.026132	13.062500	20.798000	3.020920	45.057211	1.785000	0.019466	0.189391	0.044784	0.003739	0.001825	0.122620	0.000645	0.012549	0.007310	0.001999	0.019986
10-Dec-2031	0.025955	13.148700	20.935100	3.040870	45.354607	1.796760	0.019594	0.190638	0.045080	0.003764	0.001837	0.123432	0.000649	0.012631	0.007359	0.002012	0.020118
11-Dec-2031	0.025977	13.208200	21.029800	3.054690	45.560089	1.804870	0.019682	0.191499	0.045284	0.003781	0.001846	0.123997	0.000652	0.012689	0.007392	0.002021	0.020209
12-Dec-2031	0.025961	12.910800	20.555500	2.986120	44.535110	1.764110	0.019238	0.187177	0.044267	0.003696	0.001804	0.121232	0.000637	0.012403	0.007225	0.001975	0.019754
13-Dec-2031	0.025787	12.795400	20.365800	2.961410	44.145200	1.747280	0.019058	0.185412	0.043893	0.003665	0.001791	0.120396	0.000631	0.012297	0.007160	0.001958	0.019576
14-Dec-2031	0.025808	12.798100	20.372000	2.961360	44.151736	1.748010	0.019065	0.185482	0.043893	0.003665	0.001790	0.120341	0.000631	0.012298	0.007162	0.001958	0.019580
15-Dec-2031	0.025815	12.920400	20.563600	2.990740	44.578106	1.764130	0.019243	0.187206	0.044328	0.003701	0.001809	0.121619	0.000637	0.012418	0.007229	0.001977	0.019767

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16-Dec-2031	0.025659	12.986300	20.668200	3.006030	44.805623	1.773100	0.019340	0.188158	0.044554	0.003720	0.001818	0.122245	0.000640	0.012482	0.007266	0.001987	0.019867
17-Dec-2031	0.025693	13.002600	20.694700	3.009650	44.861231	1.775420	0.019365	0.188402	0.044608	0.003725	0.001820	0.122379	0.000641	0.012497	0.007276	0.001989	0.019892
18-Dec-2031	0.025704	13.101200	20.850500	3.032830	45.202890	1.788690	0.019511	0.189814	0.044951	0.003753	0.001834	0.123350	0.000646	0.012593	0.007330	0.002004	0.020043
19-Dec-2031	0.025590	13.186000	20.985300	3.052520	45.495719	1.800230	0.019637	0.191039	0.045243	0.003778	0.001846	0.124156	0.000650	0.012674	0.007378	0.002017	0.020173
20-Dec-2031	0.025583	13.224000	21.047200	3.060780	45.624620	1.805690	0.019696	0.191613	0.045366	0.003788	0.001851	0.124451	0.000652	0.012709	0.007399	0.002023	0.020231
21-Dec-2031	0.025601	13.327700	21.211300	3.085190	45.984079	1.819650	0.019849	0.193099	0.045727	0.003818	0.001866	0.125474	0.000657	0.012810	0.007457	0.002039	0.020390
22-Dec-2031	0.025534	13.418700	21.355600	3.106370	46.298526	1.831990	0.019983	0.194410	0.046041	0.003844	0.001879	0.126345	0.000662	0.012898	0.007508	0.002053	0.020529
23-Dec-2031	0.025517	13.457400	21.418800	3.114800	46.429874	1.837570	0.020043	0.194996	0.046166	0.003855	0.001884	0.126646	0.000664	0.012934	0.007530	0.002059	0.020588
24-Dec-2031	0.025517	13.551400	21.567700	3.136810	46.755229	1.850270	0.020182	0.196347	0.046492	0.003882	0.001897	0.127561	0.000668	0.013025	0.007583	0.002073	0.020732
25-Dec-2031	0.025425	13.631000	21.694200	3.155260	47.029968	1.861110	0.020301	0.197497	0.046766	0.003905	0.001908	0.128315	0.000672	0.013101	0.007627	0.002085	0.020854
26-Dec-2031	0.025396	13.653200	21.731100	3.159970	47.104797	1.864410	0.020336	0.197842	0.046836	0.003911	0.001911	0.128470	0.000673	0.013122	0.007640	0.002089	0.020888
27-Dec-2031	0.025401	13.739300	21.867800	3.180010	47.402313	1.876100	0.020463	0.199084	0.047132	0.003936	0.001923	0.129295	0.000678	0.013205	0.007688	0.002102	0.021020
28-Dec-2031	0.025344	13.809300	21.979100	3.196240	47.643938	1.885650	0.020568	0.200097	0.047373	0.003956	0.001933	0.129956	0.000681	0.013272	0.007727	0.002113	0.021127
29-Dec-2031	0.025291	13.834100	22.019500	3.201640	47.728101	1.889210	0.020606	0.200471	0.047453	0.003962	0.001936	0.130150	0.000682	0.013295	0.007741	0.002116	0.021165
30-Dec-2031	0.025303	13.904200	22.131100	3.217870	47.969976	1.898780	0.020710	0.201487	0.047694	0.003983	0.001946	0.130811	0.000686	0.013362	0.007780	0.002127	0.021272
31-Dec-2031	0.025279	13.966700	22.230500	3.232380	48.185791	1.907300	0.020803	0.202391	0.047909	0.004000	0.001954	0.131403	0.000689	0.013422	0.007815	0.002137	0.021368
1-Jan-2032	0.025197	14.009900	22.299700	3.242170	48.333976	1.913290	0.020868	0.203025	0.048054	0.004013	0.001960	0.131787	0.000691	0.013463	0.007839	0.002143	0.021434
2-Jan-2032	0.025209	14.067400	22.391500	3.255410	48.532076	1.921190	0.020954	0.203862	0.048250	0.004029	0.001968	0.132319	0.000694	0.013519	0.007872	0.002152	0.021522
3-Jan-2032	0.025188	14.135200	22.499100	3.271170	48.766272	1.930400	0.021055	0.204840	0.048484	0.004049	0.001978	0.132966	0.000697	0.013584	0.007910	0.002163	0.021625
4-Jan-2032	0.025084	14.188400	22.584100	3.283420	48.949558	1.937710	0.021134	0.205615	0.048665	0.004064	0.001985	0.133458	0.000700	0.013635	0.007939	0.002171	0.021707
5-Jan-2032	0.025088	14.229800	22.650500	3.292880	49.091890	1.943450	0.021197	0.206222	0.048806	0.004076	0.001991	0.133833	0.000702	0.013674	0.007963	0.002177	0.021770
6-Jan-2032	0.025073	14.302100	22.765200	3.309730	49.341812	1.953250	0.021304	0.207264	0.049055	0.004096	0.002001	0.134527	0.000705	0.013744	0.008003	0.002188	0.021881
7-Jan-2032	0.024997	14.354700	22.848900	3.321910	49.523311	1.960430	0.021382	0.208026	0.049236	0.004111	0.002008	0.135023	0.000708	0.013795	0.008032	0.002196	0.021961
8-Jan-2032	0.024965	14.410400	22.937600	3.334730	49.715187	1.968060	0.021465	0.208835	0.049425	0.004127	0.002016	0.135539	0.000711	0.013848	0.008064	0.002205	0.022047
9-Jan-2032	0.024968	14.482200	23.051900	3.351400	49.963119	1.977860	0.021572	0.209875	0.049672	0.004148	0.002026	0.136220	0.000714	0.013917	0.008104	0.002216	0.022156
10-Jan-2032	0.024958	14.549500	23.158400	3.367120	50.195902	1.986950	0.021672	0.210842	0.049905	0.004167	0.002036	0.136872	0.000718	0.013982	0.008141	0.002226	0.022259
11-Jan-2032	0.024895	14.592600	23.227400	3.377000	50.344208	1.992900	0.021736	0.211472	0.050052	0.004180	0.002042	0.137265	0.000720	0.014023	0.008166	0.002233	0.022325
12-Jan-2032	0.024892	14.640800	23.304300	3.388080	50.510191	1.999520	0.021808	0.212173	0.050216	0.004193	0.002048	0.137710	0.000722	0.014070	0.008193	0.002240	0.022399
13-Jan-2032	0.024872	14.706500	23.408300	3.403480	50.737661	2.008390	0.021906	0.213116	0.050444	0.004212	0.002058	0.138351	0.000725	0.014133	0.008229	0.002250	0.022499
14-Jan-2032	0.024808	14.748200	23.474700	3.413090	50.881360	2.014100	0.021968	0.213722	0.050586	0.004224	0.002064	0.138739	0.000727	0.014173	0.008253	0.002256	0.022563
15-Jan-2032	0.024804	14.805500	23.566100	3.426340	51.079002	2.021940	0.022053	0.214554	0.050783	0.004241	0.002072	0.139276	0.000730	0.014228	0.008285	0.002265	0.022651
16-Jan-2032	0.024801	14.871900	23.671100	3.441920	51.308961	2.030880	0.022151	0.215506	0.051014	0.004260	0.002081	0.139927	0.000734	0.014292	0.008322	0.002275	0.022752
17-Jan-2032	0.024769	14.910400	23.732400	3.450800	51.441663	2.036150	0.022209	0.216064	0.051145	0.004271	0.002086	0.140286	0.000735	0.014329	0.008343	0.002281	0.022811
18-Jan-2032	0.024762	14.971000	23.828900	3.464870	51.650922	2.044420	0.022299	0.216942	0.051354	0.004288	0.002095	0.140860	0.000738	0.014388	0.008377	0.002290	0.022904
19-Jan-2032	0.024741	15.045200	23.946300	3.482180	51.907482	2.054460	0.022409	0.218009	0.051610	0.004310	0.002106	0.141576	0.000742	0.014459	0.008419	0.002302	0.023017
20-Jan-2032	0.024722	15.104000	24.040000	3.495780	52.110310	2.062500	0.022496	0.218862	0.051812	0.004326	0.002114	0.142128	0.000745	0.014516	0.008451	0.002311	0.023107
21-Jan-2032	0.024701	15.148900	24.111500	3.506140	52.265088	2.068640	0.022563	0.219514	0.051965	0.004339	0.002120	0.142547	0.000747	0.014559	0.008477	0.002318	0.023176
22-Jan-2032	0.024689	15.200900	24.194400	3.518140	52.444348	2.075760	0.022641	0.220268	0.052143	0.004354	0.002127	0.143033	0.000750	0.014609	0.008506	0.002326	0.023256
23-Jan-2032	0.024671	15.264500	24.295700	3.532810	52.663568	2.084470	0.022736	0.221192	0.052360	0.004372	0.002136	0.143626	0.000753	0.014670	0.008541	0.002335	0.023353
24-Jan-2032	0.024658	15.305900	24.362300	3.542220	52.805694	2.090230	0.022798	0.221801	0.052500	0.004384	0.002142	0.143994	0.000755	0.014709	0.008565	0.002342	0.023416
25-Jan-2032	0.024641	15.333600	24.407300	3.548360	52.900146	2.094170	0.022841	0.222216	0.052591	0.004392	0.002145	0.144221	0.000756	0.014735	0.008580	0.002346	0.023459
26-Jan-2032	0.024627	15.380300	24.481900	3.559020	53.060653	2.100610	0.022911	0.222898	0.052749	0.004405	0.002151	0.144644	0.000759	0.014780	0.008606	0.002353	0.023530
27-Jan-2032	0.024613	15.414500	24.536600	3.566860	53.178336	2.105330	0.022962	0.223398	0.052866	0.004415	0.002156	0.144957	0.000760	0.014812	0.008626	0.002358	0.023583
28-Jan-2032	0.024603	15.468800	24.623300	3.579380	53.365480	2.112780	0.023043	0.224187	0.053051	0.004430	0.002164	0.145461	0.000763	0.014864	0.008656	0.002367	0.023666
29-Jan-2032	0.024594	15.535800	24.730100	3.594840	53.596444	2.121950	0.023143	0.225161	0.053280	0.004449	0.002173	0.146086	0.000766	0.014929	0.008694	0.002377	0.023769
30-Jan-2032	0.024585	15.608000	24.845100	3.611510	53.845374	2.131840	0.023251	0.226209	0.053527	0.004470	0.002183	0.146760	0.000770	0.014998	0.008734	0.002388	0.023879
31-Jan-2032	0.024575	15.777900	25.117300	3.650200	54.428940	2.155360	0.023506	0.228698	0.054102	0.004518	0.002206	0.148285	0.000778	0.015160	0.008829	0.002414	0.024139
1-Feb-2032	0.024566	15.956800	25.402200	3.691610	55.046180	2.179810	0.023773	0.231292	0.054716	0.004569	0.002231	0.149968	0.000787	0.015332	0.008930	0.002441	0.024413
2-Feb-2032	0.024560	16.119200	25.660700	3.729180	55.606406	2.201990	0.024015	0.233645	0.055272	0.004616	0.002254	0.151494	0.000795	0.015488	0.009020	0.002466	0.024661
3-Feb-2032	0.024556	16.278000	25.913500	3.765910	56.154183	2.223680	0.024251	0.235947	0.055817	0.004661	0.002276	0.152986	0.000803	0.015640	0.009109	0.002490	0.024904
4-Feb-2032	0.024553	16.411500	26.126000	3.796780	56.614656	2.241920	0.024450	0.237883	0.056274	0.004700	0.002295	0.154239	0.000810	0.015768	0.009184	0.002511	0.025109
5-Feb-2032	0.024554	16.580200	26.394700	3.835830	57.196707	2.264980	0.024702	0.240329	0.056853	0.004748	0.002318	0.155825	0.000818	0.015931	0.009278	0.002537	0.025367

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Feb-2032	0.024556	16.723600	26.622900	3.869000	57.691371	2.284560	0.024915	0.242407	0.057345	0.004789	0.002338	0.157174	0.000825	0.016068	0.009359	0.002559	0.025586
7-Feb-2032	0.024557	16.877500	26.867900	3.904600	58.222260	2.305580	0.025145	0.244637	0.057872	0.004833	0.002360	0.158620	0.000833	0.016216	0.009445	0.002582	0.025822
8-Feb-2032	0.024558	17.102300	27.225700	3.956630	58.997845	2.336290	0.025480	0.247896	0.058643	0.004897	0.002391	0.160734	0.000844	0.016432	0.009571	0.002617	0.026166
9-Feb-2032	0.024559	17.377900	27.664400	4.020390	59.948582	2.373930	0.025890	0.251890	0.059588	0.004976	0.002430	0.163325	0.000857	0.016697	0.009725	0.002659	0.026587
10-Feb-2032	0.024559	17.638200	28.078800	4.080610	60.846537	2.409490	0.026278	0.255663	0.060481	0.005051	0.002466	0.165772	0.000870	0.016947	0.009870	0.002699	0.026985
11-Feb-2032	0.024559	17.934400	28.550300	4.149130	61.868314	2.449950	0.026719	0.259956	0.061497	0.005136	0.002508	0.168555	0.000885	0.017232	0.010036	0.002744	0.027439
12-Feb-2032	0.024559	18.254700	29.060200	4.223230	62.973247	2.493710	0.027196	0.264599	0.062595	0.005227	0.002552	0.171565	0.000901	0.017540	0.010215	0.002793	0.027929
13-Feb-2032	0.024558	18.607300	29.621500	4.304810	64.189636	2.541880	0.027722	0.269710	0.063804	0.005328	0.002602	0.174879	0.000918	0.017878	0.010413	0.002847	0.028468
14-Feb-2032	0.024558	18.975600	30.207900	4.390020	65.460176	2.592190	0.028270	0.275049	0.065067	0.005434	0.002653	0.178341	0.000936	0.018232	0.010619	0.002903	0.029032
15-Feb-2032	0.024558	19.333000	30.776700	4.472690	66.693038	2.641000	0.028803	0.280228	0.066292	0.005536	0.002703	0.181699	0.000954	0.018576	0.010819	0.002958	0.029578
16-Feb-2032	0.024558	19.721300	31.394900	4.562530	68.032585	2.694050	0.029381	0.285857	0.067624	0.005647	0.002757	0.185349	0.000973	0.018949	0.011036	0.003017	0.030172
17-Feb-2032	0.024558	20.091200	31.983700	4.648100	69.308602	2.744580	0.029932	0.291218	0.068892	0.005753	0.002809	0.188825	0.000991	0.019304	0.011243	0.003074	0.030738
18-Feb-2032	0.024558	20.388300	32.456800	4.716850	70.333573	2.785170	0.030375	0.295526	0.069911	0.005838	0.002851	0.191618	0.001006	0.019590	0.011409	0.003119	0.031193
19-Feb-2032	0.024558	20.680300	32.921600	4.784400	71.340868	2.825060	0.030810	0.299758	0.070912	0.005922	0.002892	0.194362	0.001020	0.019870	0.011573	0.003164	0.031640
20-Feb-2032	0.024558	20.976300	33.392800	4.852880	72.361981	2.865500	0.031251	0.304048	0.071927	0.006007	0.002933	0.197144	0.001035	0.020155	0.011738	0.003209	0.032093
21-Feb-2032	0.024558	21.279500	33.875500	4.923030	73.407949	2.906920	0.031703	0.308443	0.072967	0.006094	0.002975	0.199994	0.001050	0.020446	0.011908	0.003256	0.032556
22-Feb-2032	0.024557	19.566500	31.147900	4.526950	67.499531	2.672790	0.029150	0.283603	0.067096	0.005603	0.002736	0.183922	0.000965	0.018801	0.010949	0.002994	0.029936
23-Feb-2032	0.024558	19.787300	31.499300	4.578030	68.261216	2.702940	0.029479	0.286803	0.067853	0.005666	0.002767	0.185997	0.000976	0.019013	0.011073	0.003027	0.030273
24-Feb-2032	0.024557	19.987500	31.818100	4.624360	68.951902	2.730300	0.029777	0.289706	0.068540	0.005724	0.002795	0.187879	0.000986	0.019205	0.011185	0.003058	0.030580
25-Feb-2032	0.024557	20.180800	32.125700	4.669070	69.618688	2.756700	0.030065	0.292506	0.069203	0.005779	0.002822	0.189696	0.000996	0.019391	0.011293	0.003088	0.030875
26-Feb-2032	0.024557	19.477600	31.005100	4.506740	67.194323	2.660430	0.029016	0.282296	0.066796	0.005578	0.002724	0.183130	0.000961	0.018716	0.010899	0.002980	0.029799
27-Feb-2032	0.024557	19.686000	31.337000	4.554980	67.913350	2.688910	0.029326	0.285318	0.067511	0.005638	0.002753	0.185090	0.000971	0.018916	0.011016	0.003012	0.030118
28-Feb-2032	0.024557	19.901000	31.679200	4.604730	68.655075	2.718270	0.029647	0.288434	0.068249	0.005699	0.002783	0.187112	0.000982	0.019123	0.011136	0.003045	0.030447
29-Feb-2032	0.024557	20.118200	32.024800	4.654980	69.404353	2.747930	0.029970	0.291581	0.068993	0.005762	0.002814	0.189154	0.000992	0.019332	0.011258	0.003078	0.030779
1-Mar-2032	0.024557	20.344900	32.385700	4.707430	70.186412	2.778890	0.030308	0.294866	0.069771	0.005826	0.002845	0.191286	0.001004	0.019549	0.011385	0.003113	0.031126
2-Mar-2032	0.024557	20.582100	32.763300	4.762330	71.004779	2.811290	0.030661	0.298305	0.070584	0.005894	0.002879	0.193517	0.001015	0.019777	0.011518	0.003149	0.031489
3-Mar-2032	0.024557	20.829700	33.157500	4.819630	71.858997	2.845110	0.031030	0.301893	0.071434	0.005965	0.002913	0.195845	0.001028	0.020015	0.011656	0.003187	0.031868
4-Mar-2032	0.024557	21.091700	33.574400	4.880230	72.762762	2.880890	0.031420	0.305689	0.072332	0.006040	0.002950	0.198308	0.001040	0.020267	0.011803	0.003227	0.032269
5-Mar-2032	0.024557	21.363000	34.006400	4.943030	73.698809	2.917960	0.031824	0.309622	0.073263	0.006118	0.002988	0.200860	0.001054	0.020528	0.011955	0.003268	0.032684
6-Mar-2032	0.024557	21.644000	34.453700	5.008050	74.668218	2.956330	0.032243	0.313695	0.074226	0.006199	0.003027	0.203502	0.001068	0.020798	0.012112	0.003311	0.033114
7-Mar-2032	0.024557	21.934000	34.915300	5.075150	75.668666	2.995940	0.032675	0.317898	0.075221	0.006282	0.003068	0.206229	0.001082	0.021076	0.012274	0.003356	0.033557
8-Mar-2032	0.024557	22.233000	35.391200	5.144330	76.700152	3.036780	0.033120	0.322230	0.076246	0.006367	0.003110	0.209041	0.001097	0.021364	0.012441	0.003401	0.034015
9-Mar-2032	0.024557	22.540700	35.880900	5.215520	77.761639	3.078800	0.033579	0.326689	0.077301	0.006455	0.003153	0.211934	0.001112	0.021659	0.012614	0.003449	0.034485
10-Mar-2032	0.024557	22.857800	36.385800	5.288910	78.855658	3.122120	0.034051	0.331286	0.078389	0.006546	0.003197	0.214916	0.001128	0.021964	0.012791	0.003497	0.034971
11-Mar-2032	0.024556	23.186900	36.909600	5.365050	79.990965	3.167060	0.034541	0.336055	0.079518	0.006640	0.003243	0.218010	0.001144	0.022280	0.012975	0.003547	0.035474
12-Mar-2032	0.024554	19.425100	30.923500	4.494010	67.010808	2.653600	0.028940	0.281565	0.066608	0.005563	0.002716	0.182565	0.000958	0.018664	0.010870	0.002972	0.029719
13-Mar-2032	0.024554	19.563400	31.143700	4.526000	67.487878	2.672490	0.029146	0.283569	0.067082	0.005602	0.002735	0.183864	0.000965	0.018797	0.010948	0.002993	0.029931
14-Mar-2032	0.024554	19.719600	31.392200	4.562120	68.026651	2.693830	0.029379	0.285833	0.067618	0.005647	0.002757	0.185332	0.000973	0.018947	0.011035	0.003017	0.030170
15-Mar-2032	0.024554	19.876000	31.641300	4.598310	68.566213	2.715200	0.029612	0.288100	0.068154	0.005692	0.002779	0.186802	0.000981	0.019097	0.011123	0.003041	0.030409
16-Mar-2032	0.024554	20.033400	31.891800	4.634720	69.109177	2.736690	0.029846	0.290381	0.068694	0.005737	0.002801	0.188281	0.000988	0.019249	0.011211	0.003065	0.030650
17-Mar-2032	0.024554	20.191200	32.143000	4.671230	69.653552	2.758250	0.030081	0.292669	0.069235	0.005782	0.002823	0.189764	0.000996	0.019400	0.011299	0.003089	0.030891
18-Mar-2032	0.024553	20.349200	32.394500	4.707770	70.198549	2.779830	0.030317	0.294959	0.069776	0.005827	0.002845	0.191248	0.001004	0.019552	0.011388	0.003113	0.031133
19-Mar-2032	0.024553	20.507000	32.645700	4.744280	70.742924	2.801390	0.030552	0.297246	0.070318	0.005872	0.002867	0.192732	0.001012	0.019704	0.011476	0.003137	0.031374
20-Mar-2032	0.024553	20.664100	32.895800	4.780630	71.284892	2.822850	0.030786	0.299523	0.070856	0.005917	0.002889	0.194208	0.001019	0.019854	0.011564	0.003161	0.031615
21-Mar-2032	0.024553	20.819700	33.143600	4.816630	71.821673	2.844110	0.031018	0.301779	0.071390	0.005962	0.002911	0.195670	0.001027	0.020004	0.011651	0.003185	0.031853
22-Mar-2032	0.024553	20.974600	33.390200	4.852470	72.356048	2.865280	0.031249	0.304025	0.071921	0.006006	0.002933	0.197126	0.001035	0.020153	0.011738	0.003209	0.032090
23-Mar-2032	0.024553	21.130100	33.637800	4.888450	72.892497	2.886520	0.031480	0.306279	0.072454	0.006051	0.002954	0.198588	0.001042	0.020302	0.011825	0.003233	0.032328
24-Mar-2032	0.024553	21.286200	33.886200	4.924550	73.430938	2.907840	0.031713	0.308541	0.072989	0.006095	0.002976	0.200055	0.001050	0.020452	0.011912	0.003257	0.032567
25-Mar-2032	0.024553	21.442300	34.134600	4.960660	73.969421	2.929160	0.031945	0.310803	0.073525	0.006140	0.002998	0.201521	0.001058	0.020602	0.011999	0.003281	0.032805
26-Mar-2032	0.024553	21.597000	34.381000	4.996450	74.503090	2.950300	0.032176	0.313046	0.074055	0.006184	0.003020	0.202976	0.001065	0.020751	0.012086	0.003304	0.033042
27-Mar-2032	0.024553	21.750200	34.624800	5.031890	75.031572	2.971220	0.032404	0.315266	0.074580	0.006228	0.003041	0.204415	0.001073	0.020898	0.012172	0.003328	0.033276
28-Mar-2032	0.024552	21.905700	34.872400	5.067870	75.568022	2.992470	0.032636	0.317520	0.075114	0.006273	0.003063	0.205877	0.001081	0.021047	0.012259	0.003351	0.033514

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
29-Mar-2032	0.024552	22.061400	35.120300	5.103900	76.105176	3.013740	0.032868	0.319777	0.075648	0.006317	0.003085	0.207340	0.001088	0.021197	0.012346	0.003375	0.033753
30-Mar-2032	0.024552	22.217700	35.369100	5.140060	76.644364	3.035090	0.033101	0.322043	0.076184	0.006362	0.003106	0.208809	0.001096	0.021347	0.012433	0.003399	0.033992
31-Mar-2032	0.024552	22.382300	35.631200	5.178140	77.212184	3.057580	0.033346	0.324429	0.076748	0.006409	0.003129	0.210356	0.001104	0.021505	0.012525	0.003424	0.034244
1-Apr-2032	0.024552	22.523900	35.856500	5.210890	77.700623	3.076920	0.033557	0.326481	0.077233	0.006450	0.003149	0.211687	0.001111	0.021641	0.012605	0.003446	0.034460
2-Apr-2032	0.024552	22.519700	35.849800	5.209920	77.686141	3.076340	0.033551	0.326420	0.077219	0.006449	0.003149	0.211647	0.001111	0.021637	0.012602	0.003445	0.034454
3-Apr-2032	0.024552	22.490600	35.803600	5.203200	77.585806	3.072370	0.033507	0.325999	0.077119	0.006440	0.003145	0.211374	0.001110	0.021609	0.012586	0.003441	0.034409
4-Apr-2032	0.024552	22.459600	35.754300	5.196030	77.478873	3.068140	0.033461	0.325550	0.077013	0.006431	0.003140	0.211083	0.001108	0.021580	0.012569	0.003436	0.034362
5-Apr-2032	0.024552	22.425100	35.699200	5.188030	77.359782	3.063420	0.033410	0.325049	0.076894	0.006422	0.003135	0.210758	0.001106	0.021546	0.012549	0.003431	0.034309
6-Apr-2032	0.024552	22.386900	35.638500	5.179210	77.228076	3.058210	0.033353	0.324496	0.076764	0.006411	0.003130	0.210400	0.001104	0.021510	0.012528	0.003425	0.034251
7-Apr-2032	0.024552	22.345600	35.572700	5.169650	77.085582	3.052570	0.033291	0.323897	0.076622	0.006399	0.003124	0.210011	0.001102	0.021470	0.012505	0.003419	0.034188
8-Apr-2032	0.024552	22.300900	35.501500	5.159300	76.931345	3.046460	0.033225	0.323249	0.076469	0.006386	0.003118	0.209591	0.001100	0.021427	0.012480	0.003412	0.034119
9-Apr-2032	0.024552	22.252800	35.424900	5.148170	76.765406	3.039880	0.033153	0.322551	0.076304	0.006372	0.003111	0.209139	0.001098	0.021381	0.012453	0.003405	0.034045
10-Apr-2032	0.024552	22.178400	35.306500	5.130960	76.508758	3.029720	0.033042	0.321473	0.076049	0.006351	0.003101	0.208440	0.001094	0.021309	0.012411	0.003393	0.033932
11-Apr-2032	0.024552	22.052600	35.106300	5.101860	76.074802	3.012540	0.032855	0.319650	0.075617	0.006315	0.003083	0.207257	0.001088	0.021189	0.012341	0.003374	0.033739
12-Apr-2032	0.024552	22.033300	35.075500	5.097390	76.008202	3.009900	0.032826	0.319370	0.075551	0.006309	0.003081	0.207076	0.001087	0.021170	0.012330	0.003371	0.033710
13-Apr-2032	0.024552	22.004600	35.029900	5.090750	75.909195	3.005980	0.032783	0.318954	0.075453	0.006301	0.003077	0.206806	0.001086	0.021142	0.012314	0.003367	0.033666
14-Apr-2032	0.024552	21.949000	34.941400	5.077900	75.717445	2.998390	0.032700	0.318148	0.075262	0.006285	0.003069	0.206284	0.001083	0.021089	0.012283	0.003358	0.033581
15-Apr-2032	0.024552	21.891900	34.850400	5.064680	75.520427	2.990580	0.032615	0.317320	0.075066	0.006269	0.003061	0.205747	0.001080	0.021034	0.012251	0.003349	0.033493
16-Apr-2032	0.024552	21.854400	34.790800	5.056020	75.391127	2.985470	0.032559	0.316778	0.074938	0.006258	0.003056	0.205395	0.001078	0.020998	0.012230	0.003344	0.033436
17-Apr-2032	0.024552	21.796400	34.698500	5.042600	75.191038	2.977540	0.032473	0.315937	0.074739	0.006242	0.003048	0.204850	0.001075	0.020942	0.012197	0.003335	0.033347
18-Apr-2032	0.024552	21.730400	34.593400	5.027320	74.963313	2.968520	0.032375	0.314980	0.074513	0.006223	0.003038	0.204229	0.001072	0.020879	0.012160	0.003325	0.033246
19-Apr-2032	0.024552	21.666900	34.492200	5.012630	74.744260	2.959840	0.032280	0.314059	0.074295	0.006204	0.003029	0.203633	0.001069	0.020818	0.012125	0.003315	0.033149
20-Apr-2032	0.024552	21.595300	34.378300	4.996070	74.497280	2.950070	0.032173	0.313022	0.074049	0.006184	0.003019	0.202960	0.001065	0.020749	0.012085	0.003304	0.033040
21-Apr-2032	0.024552	21.522500	34.262400	4.979230	74.246152	2.940120	0.032065	0.311966	0.073800	0.006163	0.003009	0.202276	0.001062	0.020679	0.012044	0.003293	0.032928
22-Apr-2032	0.024552	21.458900	34.161200	4.964510	74.026725	2.931440	0.031970	0.311045	0.073582	0.006145	0.003000	0.201678	0.001059	0.020618	0.012009	0.003283	0.032831
23-Apr-2032	0.024552	21.394600	34.058800	4.949640	73.804934	2.922650	0.031874	0.310112	0.073361	0.006127	0.002991	0.201074	0.001055	0.020556	0.011973	0.003273	0.032733
24-Apr-2032	0.024552	21.329600	33.955400	4.934610	73.580735	2.913780	0.031778	0.309171	0.073138	0.006108	0.002982	0.200463	0.001052	0.020494	0.011936	0.003263	0.032633
25-Apr-2032	0.024552	21.268100	33.857300	4.920360	73.368488	2.905360	0.031686	0.308278	0.072927	0.006090	0.002974	0.199884	0.001049	0.020435	0.011902	0.003254	0.032539
26-Apr-2032	0.024552	21.212200	33.768500	4.907440	73.175701	2.897740	0.031603	0.307469	0.072736	0.006074	0.002966	0.199360	0.001046	0.020381	0.011871	0.003245	0.032454
27-Apr-2032	0.024552	21.161200	33.687200	4.895630	72.999721	2.890760	0.031527	0.306729	0.072561	0.006060	0.002959	0.198880	0.001044	0.020332	0.011842	0.003238	0.032375
28-Apr-2032	0.024552	21.114300	33.612600	4.884790	72.837972	2.884360	0.031457	0.306050	0.072400	0.006046	0.002952	0.198440	0.001042	0.020287	0.011816	0.003230	0.032304
29-Apr-2032	0.024569	21.069000	33.540500	4.874310	72.681702	2.878170	0.031389	0.305393	0.072245	0.006033	0.002946	0.198014	0.001039	0.020244	0.011790	0.003223	0.032234
30-Apr-2032	0.024757	21.006800	33.441500	4.859930	72.467171	2.869680	0.031297	0.304492	0.072032	0.006015	0.002937	0.197429	0.001036	0.020184	0.011756	0.003214	0.032139
1-May-2032	0.025823	20.847500	33.187900	4.823070	71.917610	2.847910	0.031059	0.302182	0.071485	0.005970	0.002915	0.195932	0.001028	0.020031	0.011666	0.003190	0.031896
2-May-2032	0.030135	20.366000	32.421300	4.711670	70.256559	2.782130	0.030342	0.295203	0.069834	0.005832	0.002848	0.191406	0.001005	0.019568	0.011397	0.003116	0.031159
3-May-2032	0.035198	19.661100	31.299200	4.548590	67.824860	2.685840	0.029292	0.284985	0.067417	0.005630	0.002749	0.184782	0.000970	0.018891	0.011003	0.003008	0.030080
4-May-2032	0.040372	19.232700	30.617200	4.449480	66.347011	2.627320	0.028653	0.278775	0.065948	0.005507	0.002689	0.180755	0.000949	0.018479	0.010763	0.002942	0.029425
5-May-2032	0.045371	19.028400	30.292000	4.402220	65.642257	2.599410	0.028349	0.275815	0.065248	0.005449	0.002661	0.178835	0.000939	0.018283	0.010648	0.002911	0.029112
6-May-2032	0.051456	18.813500	29.949800	4.352500	64.900905	2.570050	0.028029	0.272699	0.064511	0.005387	0.002630	0.176816	0.000928	0.018076	0.010528	0.002878	0.028784
7-May-2032	0.056580	18.617200	29.637400	4.307090	64.223745	2.543240	0.027737	0.269854	0.063838	0.005331	0.002603	0.174971	0.000918	0.017888	0.010418	0.002848	0.028483
8-May-2032	0.061368	18.442600	29.359400	4.266690	63.621402	2.519390	0.027476	0.267323	0.063239	0.005281	0.002579	0.173330	0.000910	0.017720	0.010321	0.002822	0.028216
9-May-2032	0.066396	18.362400	29.231700	4.248140	63.344753	2.508430	0.027357	0.266161	0.062964	0.005258	0.002567	0.172576	0.000906	0.017643	0.010276	0.002809	0.028093
10-May-2032	0.076498	19.270200	30.675300	4.458660	66.478451	2.632160	0.028707	0.279295	0.066084	0.005519	0.002695	0.181168	0.000951	0.018516	0.010783	0.002948	0.029482
11-May-2032	0.082042	18.547100	29.524400	4.291340	63.983847	2.533410	0.027630	0.268817	0.063604	0.005312	0.002594	0.174367	0.000915	0.017822	0.010379	0.002838	0.028376
12-May-2032	0.088033	18.146300	28.887700	4.198150	62.599293	2.478910	0.027035	0.263028	0.062223	0.005196	0.002537	0.170545	0.000895	0.017435	0.010155	0.002776	0.027763
13-May-2032	0.107500	18.058800	28.748300	4.177890	62.297375	2.466950	0.026905	0.261759	0.061923	0.005171	0.002525	0.169723	0.000891	0.017351	0.010106	0.002763	0.027629
14-May-2032	0.123394	17.954000	28.581600	4.153660	61.935910	2.452640	0.026748	0.260241	0.061564	0.005141	0.002510	0.168738	0.000886	0.017251	0.010047	0.002747	0.027469
15-May-2032	0.141973	17.850700	28.417200	4.129770	61.579591	2.438530	0.026595	0.258744	0.061210	0.005112	0.002496	0.167768	0.000881	0.017151	0.009989	0.002731	0.027311
16-May-2032	0.174154	17.746000	28.250400	4.105540	61.218376	2.424220	0.026439	0.257226	0.060850	0.005082	0.002481	0.166783	0.000875	0.017051	0.009931	0.002715	0.027150
17-May-2032	0.193545	17.609600	28.033300	4.073980	60.747821	2.405580	0.026235	0.255248	0.060383	0.005043	0.002462	0.165502	0.000869	0.016920	0.009854	0.002694	0.026942
18-May-2032	0.198770	17.475100	27.819200	4.042870	60.283863	2.387210	0.026035	0.253299	0.059922	0.005004	0.002443	0.164238	0.000862	0.016791	0.009779	0.002674	0.026736
19-May-2032	0.202073	17.312200	27.559900	4.005190	59.721936	2.364960	0.025792	0.250938	0.059363	0.004957	0.002421	0.162707	0.000854	0.016634	0.009688	0.002649	0.026487

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
20-May-2032	0.201734	16.928800	26.949400	3.916490	58.399319	2.312570	0.025221	0.245379	0.058049	0.004848	0.002367	0.159104	0.000835	0.016266	0.009473	0.002590	0.025900
21-May-2032	0.203890	16.563400	26.367700	3.831970	57.138862	2.262650	0.024676	0.240082	0.056796	0.004743	0.002316	0.155670	0.000817	0.015915	0.009269	0.002534	0.025341
22-May-2032	0.204774	16.267500	25.896600	3.763510	56.118082	2.222220	0.024236	0.235792	0.055782	0.004658	0.002275	0.152889	0.000803	0.015630	0.009103	0.002489	0.024888
23-May-2032	0.209546	15.875700	25.272900	3.672900	54.766625	2.168700	0.023652	0.230113	0.054439	0.004546	0.002220	0.149209	0.000783	0.015254	0.008884	0.002429	0.024289
24-May-2032	0.209549	15.488200	24.655900	3.583250	53.429859	2.115750	0.023074	0.224495	0.053111	0.004435	0.002166	0.145567	0.000764	0.014882	0.008667	0.002370	0.023696
25-May-2032	0.215446	15.121700	24.072500	3.498500	52.165708	2.065670	0.022528	0.219182	0.051855	0.004330	0.002114	0.142126	0.000746	0.014530	0.008462	0.002314	0.023135
26-May-2032	0.223472	14.870200	23.672000	3.440320	51.298127	2.031290	0.022153	0.215534	0.050993	0.004258	0.002079	0.139763	0.000734	0.014288	0.008321	0.002275	0.022750
27-May-2032	0.234750	14.556000	23.171700	3.367660	50.214356	1.988350	0.021685	0.210979	0.049916	0.004168	0.002035	0.136812	0.000718	0.013986	0.008146	0.002227	0.022269
28-May-2032	0.252646	14.446000	22.996600	3.342230	49.834965	1.973320	0.021521	0.209383	0.049540	0.004137	0.002020	0.135779	0.000713	0.013881	0.008084	0.002210	0.022101
29-May-2032	0.278070	14.271000	22.717600	3.301850	49.231705	1.949340	0.021260	0.206840	0.048942	0.004087	0.001996	0.134146	0.000704	0.013713	0.007986	0.002183	0.021833
30-May-2032	0.317303	14.202600	22.608800	3.286010	48.995681	1.940000	0.021158	0.205849	0.048708	0.004067	0.001986	0.133500	0.000701	0.013647	0.007948	0.002173	0.021729
31-May-2032	0.353725	14.116600	22.472000	3.266060	48.698785	1.928290	0.021030	0.204606	0.048411	0.004042	0.001974	0.132687	0.000696	0.013564	0.007900	0.002160	0.021597
1-Jun-2032	0.400433	14.016600	22.312500	3.243070	48.354412	1.914560	0.020881	0.203150	0.048072	0.004014	0.001960	0.131759	0.000691	0.013469	0.007844	0.002144	0.021444
2-Jun-2032	0.475336	13.910400	22.142800	3.218630	47.988587	1.899940	0.020722	0.201600	0.047712	0.003983	0.001946	0.130774	0.000686	0.013367	0.007784	0.002128	0.021281
3-Jun-2032	0.514579	13.818300	21.995700	3.197470	47.671477	1.887260	0.020584	0.200256	0.047402	0.003957	0.001933	0.129922	0.000682	0.013279	0.007732	0.002114	0.021140
4-Jun-2032	0.716574	13.649800	21.726800	3.158720	47.091160	1.864100	0.020331	0.197801	0.046833	0.003908	0.001910	0.128359	0.000673	0.013118	0.007638	0.002088	0.020882
5-Jun-2032	0.766975	13.455800	21.416100	3.114410	46.424273	1.837220	0.020039	0.194956	0.046194	0.003853	0.001884	0.126585	0.000664	0.012934	0.007529	0.002059	0.020586
6-Jun-2032	0.774520	13.276700	21.126600	3.074240	45.811640	1.811910	0.019766	0.192289	0.045639	0.003800	0.001861	0.124999	0.000655	0.012767	0.007428	0.002031	0.020314
7-Jun-2032	0.759942	13.108900	20.853600	3.037140	45.239866	1.787810	0.019507	0.189757	0.045143	0.003751	0.001841	0.123560	0.000646	0.012613	0.007333	0.002006	0.020059
8-Jun-2032	0.773460	12.896400	20.507300	2.990310	44.516407	1.757200	0.019178	0.186544	0.044553	0.003688	0.001816	0.121747	0.000635	0.012418	0.007213	0.001974	0.019737
9-Jun-2032	0.761922	12.704900	20.191600	2.949150	43.868735	1.729000	0.018878	0.183613	0.044025	0.003631	0.001794	0.120204	0.000625	0.012248	0.007105	0.001945	0.019448
10-Jun-2032	0.755994	12.483200	19.827500	2.901120	43.117363	1.696440	0.018530	0.180212	0.043403	0.003564	0.001769	0.118365	0.000614	0.012048	0.006979	0.001911	0.019111
11-Jun-2032	0.771331	12.254100	19.446800	2.852880	42.346648	1.661760	0.018160	0.176571	0.042826	0.003495	0.001746	0.116579	0.000601	0.011848	0.006848	0.001876	0.018764
12-Jun-2032	0.807044	12.060700	19.123000	2.812710	41.698308	1.632100	0.017846	0.173484	0.042408	0.003435	0.001728	0.115120	0.000591	0.011682	0.006737	0.001847	0.018472
13-Jun-2032	0.874141	11.857800	18.786100	2.771700	41.022787	1.601870	0.017527	0.170360	0.042004	0.003375	0.001711	0.113675	0.000580	0.011512	0.006622	0.001817	0.018168
14-Jun-2032	0.960675	11.634700	18.406000	2.725300	40.274631	1.566140	0.017152	0.166655	0.041661	0.003305	0.001697	0.112147	0.000568	0.011321	0.006493	0.001783	0.017832
15-Jun-2032	1.056626	11.431000	18.056000	2.685520	39.602178	1.533150	0.016806	0.163241	0.041229	0.003240	0.001680	0.110789	0.000557	0.011156	0.006375	0.001752	0.017521
16-Jun-2032	1.157350	11.258400	17.760700	2.651700	39.031925	1.505280	0.016515	0.160361	0.040903	0.003187	0.001666	0.109640	0.000547	0.011017	0.006276	0.001726	0.017264
17-Jun-2032	1.256374	11.067500	17.429200	2.614690	38.402841	1.474060	0.016189	0.157142	0.040665	0.003127	0.001653	0.108641	0.000536	0.010867	0.006165	0.001698	0.016976
18-Jun-2032	1.366273	10.927600	17.188100	2.587710	37.942407	1.451590	0.015954	0.154825	0.040444	0.003083	0.001643	0.107828	0.000529	0.010757	0.006084	0.001677	0.016767
19-Jun-2032	1.511790	10.808400	16.989400	2.564420	37.548856	1.432710	0.015758	0.152884	0.040208	0.003048	0.001633	0.107052	0.000522	0.010662	0.006016	0.001659	0.016590
20-Jun-2032	1.715483	10.702900	16.805600	2.542090	37.193468	1.415200	0.015577	0.151090	0.040005	0.003015	0.001625	0.106372	0.000516	0.010572	0.005955	0.001643	0.016432
21-Jun-2032	1.998160	10.597400	16.622500	2.521750	36.846274	1.397780	0.015397	0.149306	0.039778	0.002983	0.001615	0.105605	0.000510	0.010489	0.005894	0.001627	0.016274
22-Jun-2032	2.236158	10.474900	16.408300	2.498550	36.444854	1.377240	0.015185	0.147206	0.039591	0.002945	0.001607	0.104925	0.000503	0.010394	0.005823	0.001609	0.016090
23-Jun-2032	2.411244	10.318700	16.133900	2.468960	35.932971	1.350960	0.014915	0.144525	0.039363	0.002898	0.001598	0.104117	0.000494	0.010276	0.005733	0.001586	0.015856
24-Jun-2032	2.653208	10.125800	15.798700	2.433210	35.304081	1.319150	0.014587	0.141281	0.039301	0.002840	0.001589	0.103375	0.000483	0.010132	0.005621	0.001557	0.015567
25-Jun-2032	2.781947	9.954460	15.491100	2.400680	34.742287	1.289110	0.014281	0.138229	0.038943	0.002789	0.001577	0.102431	0.000473	0.010005	0.005522	0.001531	0.015310
26-Jun-2032	2.981252	9.799540	15.215600	2.371920	34.237018	1.262510	0.014010	0.135529	0.038904	0.002744	0.001571	0.101932	0.000464	0.009892	0.005432	0.001508	0.015077
27-Jun-2032	3.116787	9.610370	14.888100	2.335060	33.612871	1.231580	0.013691	0.132387	0.038806	0.002687	0.001555	0.100821	0.000453	0.009744	0.005323	0.001479	0.014794
28-Jun-2032	3.248583	9.382380	14.484000	2.292380	32.867824	1.192720	0.013295	0.128448	0.038698	0.002620	0.001545	0.100005	0.000440	0.009577	0.005191	0.001445	0.014452
29-Jun-2032	3.294724	9.244780	14.241600	2.266450	32.417457	1.169460	0.013056	0.126087	0.038499	0.002579	0.001533	0.099202	0.000432	0.009474	0.005111	0.001424	0.014245
30-Jun-2032	4.646140	7.321490	10.768700	1.915340	26.169131	0.832453	0.009646	0.092136	0.035715	0.002056	0.001443	0.094040	0.000318	0.008153	0.003999	0.001133	0.011330
1-Jul-2032	5.138998	7.000900	10.321500	1.832940	25.029294	0.797134	0.009214	0.088069	0.034795	0.001926	0.001421	0.091718	0.000304	0.007770	0.003819	0.001086	0.010860
2-Jul-2032	5.364707	7.160440	10.566500	1.866500	25.565866	0.818543	0.009449	0.090360	0.034545	0.001984	0.001403	0.091330	0.000312	0.007939	0.003913	0.001109	0.011095
3-Jul-2032	6.400840	7.119640	10.487700	1.860590	25.439651	0.810552	0.009372	0.089586	0.034620	0.001975	0.001404	0.091733	0.000309	0.007915	0.003889	0.001103	0.011032
4-Jul-2032	7.370365	7.480490	11.149200	1.916000	26.568872	0.876897	0.010033	0.096196	0.034986	0.002082	0.001407	0.091892	0.000332	0.008179	0.004107	0.001158	0.011578
5-Jul-2032	7.433261	7.518500	11.212000	1.922360	26.689973	0.883128	0.010099	0.096860	0.035081	0.002099	0.001409	0.091060	0.000334	0.008217	0.004130	0.001163	0.011633
6-Jul-2032	8.287400	7.466060	11.112400	1.914650	26.527281	0.873122	0.010002	0.095887	0.035027	0.002087	0.001409	0.091729	0.000330	0.008183	0.004099	0.001155	0.011552
7-Jul-2032	8.772857	7.568800	11.301500	1.931610	26.853664	0.891964	0.010190	0.097762	0.035085	0.002117	0.001411	0.091355	0.000337	0.008251	0.004160	0.001171	0.011706
8-Jul-2032	9.043314	7.495020	11.162800	1.921430	26.627514	0.877930	0.010053	0.096390	0.034969	0.002099	0.001411	0.091717	0.000332	0.008198	0.004114	0.001159	0.011592
9-Jul-2032	9.624548	7.545410	11.251300	1.929920	26.788299	0.886711	0.010144	0.097292	0.035042	0.002117	0.001413	0.091708	0.000335	0.008239	0.004145	0.001167	0.011667
10-Jul-2032	11.188464	7.825500	11.761000	1.973020	27.665170	0.937854	0.010656	0.102413	0.035444	0.002204	0.001419	0.092593	0.000352	0.008450	0.004315	0.001209	0.012090

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Jul-2032	11.982417	7.914370	11.913400	1.988080	27.949095	0.953050	0.010815	0.104001	0.035607	0.002241	0.001423	0.093412	0.000357	0.008527	0.004369	0.001222	0.012219
12-Jul-2032	12.784745	7.735430	11.577400	1.962300	27.396120	0.919219	0.010485	0.100687	0.035369	0.002196	0.001421	0.093451	0.000346	0.008403	0.004260	0.001194	0.011943
13-Jul-2032	13.228023	7.874980	11.840200	1.983600	27.832290	0.945530	0.010742	0.103266	0.035498	0.002230	0.001423	0.093384	0.000355	0.008493	0.004343	0.001216	0.012158
14-Jul-2032	13.621198	8.055930	12.172700	2.011270	28.398067	0.978882	0.011073	0.106581	0.035732	0.002283	0.001426	0.093839	0.000366	0.008625	0.004453	0.001243	0.012433
15-Jul-2032	13.181472	7.944930	11.966100	1.995270	28.055012	0.958077	0.010869	0.104529	0.035559	0.002253	0.001425	0.093703	0.000359	0.008544	0.004385	0.001226	0.012262
16-Jul-2032	13.075564	8.023580	12.108400	2.007850	28.303206	0.972302	0.011012	0.105960	0.035660	0.002278	0.001427	0.094013	0.000363	0.008603	0.004432	0.001238	0.012380
17-Jul-2032	13.230011	8.122390	12.287400	2.023490	28.614340	0.990213	0.011192	0.107758	0.035790	0.002310	0.001429	0.094365	0.000369	0.008677	0.004492	0.001253	0.012528
18-Jul-2032	13.913026	8.112630	12.271300	2.022850	28.587333	0.988506	0.011174	0.107584	0.035723	0.002305	0.001429	0.094256	0.000369	0.008663	0.004485	0.001251	0.012513
19-Jul-2032	12.780989	7.938500	11.954900	1.998010	28.050240	0.956539	0.010854	0.104374	0.035370	0.002251	0.001426	0.093699	0.000358	0.008522	0.004377	0.001225	0.012247
20-Jul-2032	12.085513	7.973280	12.017300	2.004290	28.162946	0.962710	0.010917	0.104998	0.035385	0.002263	0.001427	0.093876	0.000360	0.008545	0.004397	0.001230	0.012298
21-Jul-2032	11.497481	8.013920	12.089000	2.011520	28.294198	0.969835	0.010990	0.105727	0.035414	0.002278	0.001429	0.094189	0.000363	0.008575	0.004421	0.001236	0.012357
22-Jul-2032	11.493157	8.053030	12.157400	2.018770	28.421711	0.976618	0.011060	0.106427	0.035432	0.002294	0.001430	0.094545	0.000365	0.008604	0.004444	0.001241	0.012412
23-Jul-2032	11.565577	8.136120	12.307500	2.032350	28.685109	0.991617	0.011211	0.107936	0.035522	0.002321	0.001432	0.094883	0.000370	0.008665	0.004494	0.001254	0.012536
24-Jul-2032	11.486706	8.201260	12.428200	2.042620	28.890055	1.003650	0.011330	0.109127	0.035589	0.002338	0.001434	0.094894	0.000374	0.008709	0.004533	0.001264	0.012636
25-Jul-2032	11.244774	8.300630	12.608900	2.058250	29.202547	1.021750	0.011512	0.110939	0.035716	0.002369	0.001436	0.095224	0.000380	0.008783	0.004593	0.001279	0.012785
26-Jul-2032	11.239798	8.397830	12.784300	2.073900	29.509702	1.039310	0.011689	0.112708	0.035832	0.002401	0.001439	0.095641	0.000386	0.008855	0.004651	0.001293	0.012931
27-Jul-2032	11.818391	8.418560	12.821600	2.077580	29.576619	1.043040	0.011726	0.113086	0.035842	0.002409	0.001439	0.095751	0.000387	0.008869	0.004663	0.001296	0.012961
28-Jul-2032	12.197215	8.622460	13.194000	2.108760	30.214156	1.080400	0.012099	0.116818	0.036125	0.002470	0.001443	0.096321	0.000400	0.009021	0.004787	0.001327	0.013269
29-Jul-2032	12.460334	8.726000	13.383300	2.124980	30.539490	1.099360	0.012288	0.118708	0.036251	0.002502	0.001446	0.096662	0.000406	0.009096	0.004849	0.001343	0.013425
30-Jul-2032	13.002732	8.876770	13.659600	2.148840	31.014218	1.126920	0.012564	0.121465	0.036444	0.002545	0.001449	0.096938	0.000415	0.009204	0.004940	0.001366	0.013655
31-Jul-2032	13.364045	8.792980	13.507400	2.136950	30.756031	1.111530	0.012410	0.119916	0.036269	0.002519	0.001448	0.096665	0.000410	0.009136	0.004888	0.001353	0.013527
1-Aug-2032	13.891402	8.654810	13.254800	2.117620	30.331420	1.086070	0.012156	0.117370	0.035975	0.002479	0.001445	0.096358	0.000402	0.009024	0.004802	0.001331	0.013313
2-Aug-2032	13.980274	8.984740	13.856300	2.168600	31.365191	1.146400	0.012759	0.123410	0.036436	0.002580	0.001452	0.097363	0.000422	0.009270	0.005002	0.001381	0.013812
3-Aug-2032	14.134449	8.836010	13.583400	2.146790	30.903998	1.118940	0.012486	0.120671	0.036184	0.002537	0.001450	0.097044	0.000413	0.009157	0.004911	0.001358	0.013584
4-Aug-2032	14.290834	9.003830	13.888800	2.173710	31.433901	1.149470	0.012791	0.123723	0.036374	0.002589	0.001454	0.097601	0.000423	0.009278	0.005011	0.001384	0.013836
5-Aug-2032	13.892053	8.973260	13.833400	2.169690	31.341014	1.143740	0.012734	0.123142	0.036313	0.002578	0.001453	0.097458	0.000421	0.009252	0.004992	0.001379	0.013790
6-Aug-2032	13.828830	9.071660	14.012000	2.185790	31.653018	1.161540	0.012912	0.124920	0.036417	0.002609	0.001456	0.097810	0.000427	0.009323	0.005051	0.001394	0.013937
7-Aug-2032	13.801970	9.025710	13.930500	2.180310	31.515714	1.153160	0.012827	0.124063	0.036261	0.002593	0.001455	0.097563	0.000424	0.009278	0.005021	0.001387	0.013867
8-Aug-2032	13.447568	9.115090	14.093900	2.195090	31.799760	1.169490	0.012989	0.125684	0.036311	0.002620	0.001457	0.097844	0.000430	0.009338	0.005074	0.001400	0.014000
9-Aug-2032	12.934715	9.011820	13.901700	2.181440	31.485684	1.150030	0.012797	0.123752	0.036088	0.002594	0.001456	0.097826	0.000423	0.009258	0.005009	0.001384	0.013838
10-Aug-2032	12.931089	9.093620	14.051900	2.193980	31.741579	1.165080	0.012947	0.125248	0.036191	0.002618	0.001458	0.098003	0.000428	0.009317	0.005059	0.001396	0.013962
11-Aug-2032	12.522545	9.097250	14.056700	2.196480	31.760938	1.165340	0.012950	0.125274	0.036132	0.002621	0.001459	0.098154	0.000429	0.009314	0.005059	0.001396	0.013965
12-Aug-2032	12.333277	9.044090	13.961500	2.190320	31.602830	1.155550	0.012851	0.124272	0.035944	0.002603	0.001458	0.097922	0.000425	0.009262	0.005024	0.001388	0.013881
13-Aug-2032	11.933779	9.097440	14.059300	2.198950	31.771584	1.165260	0.012947	0.125237	0.036004	0.002619	0.001460	0.098036	0.000429	0.009299	0.005056	0.001396	0.013962
14-Aug-2032	11.132391	9.220580	14.282700	2.218640	32.160148	1.187630	0.013171	0.127471	0.036143	0.002659	0.001462	0.098514	0.000436	0.009390	0.005130	0.001415	0.014146
15-Aug-2032	10.584068	9.249910	14.334800	2.224410	32.257146	1.192740	0.013222	0.127978	0.036138	0.002670	0.001464	0.098720	0.000438	0.009408	0.005147	0.001419	0.014188
16-Aug-2032	10.779951	9.157730	14.168000	2.212000	31.975868	1.175760	0.013052	0.126264	0.035920	0.002640	0.001462	0.098384	0.000432	0.009330	0.005089	0.001405	0.014047
17-Aug-2032	11.161004	9.438710	14.681300	2.255370	32.856073	1.227230	0.013565	0.131396	0.036288	0.002725	0.001468	0.099170	0.000449	0.009536	0.005259	0.001447	0.014470
18-Aug-2032	11.577947	9.627520	15.022000	2.286380	33.455230	1.261280	0.013905	0.134790	0.036483	0.002789	0.001473	0.100037	0.000461	0.009673	0.005372	0.001475	0.014749
19-Aug-2032	11.729117	9.630210	15.021600	2.289700	33.475619	1.260960	0.013902	0.134759	0.036411	0.002797	0.001474	0.100439	0.000461	0.009671	0.005371	0.001475	0.014748
20-Aug-2032	11.928143	9.796530	15.329900	2.313650	33.989546	1.291930	0.014211	0.137846	0.036678	0.002840	0.001477	0.100540	0.000471	0.009796	0.005473	0.001501	0.015006
21-Aug-2032	12.296715	9.647940	15.058700	2.291840	33.528703	1.264610	0.013938	0.135109	0.036424	0.002795	0.001474	0.100138	0.000462	0.009680	0.005382	0.001478	0.014780
22-Aug-2032	12.257277	9.477750	14.746600	2.267750	33.004536	1.233060	0.013622	0.131948	0.036099	0.002746	0.001472	0.099772	0.000452	0.009547	0.005277	0.001452	0.014519
23-Aug-2032	11.449460	9.335780	14.487400	2.248630	32.571301	1.206790	0.013359	0.129297	0.035753	0.002704	0.001469	0.099490	0.000443	0.009428	0.005188	0.001430	0.014297
24-Aug-2032	11.311726	9.316570	14.450700	2.247190	32.517404	1.202890	0.013320	0.128904	0.035692	0.002700	0.001470	0.099889	0.000442	0.009411	0.005175	0.001427	0.014267
25-Aug-2032	11.656085	9.647440	15.055700	2.297430	33.550474	1.263650	0.013926	0.134966	0.036156	0.002799	0.001476	0.100373	0.000462	0.009657	0.005376	0.001477	0.014769
26-Aug-2032	11.805257	9.639610	15.038500	2.297660	33.531870	1.261810	0.013907	0.134776	0.036084	0.002801	0.001477	0.100583	0.000461	0.009649	0.005370	0.001475	0.014752
27-Aug-2032	12.104598	9.696480	15.144000	2.307160	33.712995	1.272280	0.014011	0.135807	0.036115	0.002816	0.001478	0.100646	0.000465	0.009685	0.005403	0.001484	0.014838
28-Aug-2032	11.645013	9.540570	14.854900	2.286480	33.238528	1.242960	0.013717	0.132860	0.035768	0.002776	0.001476	0.100574	0.000455	0.009562	0.005306	0.001459	0.014593
29-Aug-2032	10.847568	9.661850	15.079200	2.304900	33.617218	1.265400	0.013941	0.135097	0.035934	0.002809	0.001479	0.100704	0.000463	0.009649	0.005379	0.001478	0.014781
30-Aug-2032	9.957293	9.770160	15.275900	2.322130	33.958621	1.285060	0.014137	0.137056	0.036063	0.002843	0.001481	0.101090	0.000469	0.009728	0.005445	0.001494	0.014943
31-Aug-2032	9.610971	9.732210	15.206400	2.317920	33.846523	1.277890	0.014065	0.136325	0.035935	0.002832	0.001481	0.101021	0.000467	0.009693	0.005420	0.001488	0.014884

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Sep-2032	9.701335	9.933480	15.574600	2.349240	34.478070	1.314730	0.014432	0.139995	0.036197	0.002891	0.001485	0.101534	0.000479	0.009840	0.005541	0.001519	0.015188
2-Sep-2032	9.654684	9.948920	15.601900	2.351930	34.527701	1.317390	0.014459	0.140262	0.036219	0.002896	0.001486	0.101613	0.000480	0.009852	0.005550	0.001521	0.015211
3-Sep-2032	9.818729	10.100100	15.878400	2.375570	35.002547	1.345010	0.014734	0.143019	0.036425	0.002940	0.001490	0.101983	0.000489	0.009963	0.005641	0.001544	0.015442
4-Sep-2032	9.577741	10.404500	16.436100	2.421770	35.952885	1.401150	0.015293	0.148610	0.036814	0.003033	0.001495	0.102798	0.000508	0.010187	0.005826	0.001590	0.015900
5-Sep-2032	9.262066	10.066900	15.820100	2.370980	34.900745	1.339270	0.014675	0.142423	0.036287	0.002932	0.001488	0.101870	0.000487	0.009930	0.005620	0.001539	0.015387
6-Sep-2032	9.077379	10.244700	16.144500	2.398630	35.458574	1.371750	0.014999	0.145669	0.036536	0.002986	0.001492	0.102389	0.000498	0.010062	0.005728	0.001566	0.015657
7-Sep-2032	8.943418	10.106400	15.892400	2.378040	35.028450	1.346470	0.014746	0.143130	0.036281	0.002945	0.001489	0.102043	0.000490	0.009955	0.005643	0.001544	0.015445
8-Sep-2032	9.257578	10.252300	16.159300	2.400200	35.484017	1.373320	0.015013	0.145808	0.036478	0.002990	0.001492	0.102447	0.000499	0.010063	0.005732	0.001567	0.015665
9-Sep-2032	8.426342	10.250000	16.154700	2.400380	35.479015	1.372910	0.015008	0.145758	0.036428	0.002992	0.001491	0.102555	0.000499	0.010059	0.005730	0.001566	0.015659
10-Sep-2032	8.174285	10.125100	15.926600	2.382260	35.092521	1.350000	0.014779	0.143459	0.036194	0.002957	0.001489	0.102285	0.000491	0.009961	0.005654	0.001547	0.015467
11-Sep-2032	7.768593	10.302100	16.249900	2.409440	35.646418	1.382400	0.015102	0.146694	0.036440	0.003010	0.001492	0.102768	0.000502	0.010093	0.005761	0.001574	0.015735
12-Sep-2032	6.635079	10.283200	16.215800	2.406810	35.588394	1.379100	0.015068	0.146354	0.036358	0.003006	0.001491	0.102789	0.000501	0.010075	0.005749	0.001570	0.015704
13-Sep-2032	5.474094	10.188200	16.043200	2.392900	35.293898	1.361810	0.014894	0.144615	0.036163	0.002979	0.001489	0.102547	0.000495	0.010000	0.005691	0.001556	0.015558
14-Sep-2032	5.067454	10.256000	16.167100	2.403540	35.507010	1.374220	0.015018	0.145851	0.036247	0.003000	0.001490	0.102733	0.000499	0.010049	0.005732	0.001566	0.015660
15-Sep-2032	4.731713	10.314400	16.273700	2.412770	35.690844	1.384960	0.015125	0.146918	0.036299	0.003019	0.001491	0.102945	0.000503	0.010091	0.005767	0.001575	0.015746
16-Sep-2032	4.315473	10.617800	16.827800	2.458920	36.638479	1.440590	0.015680	0.152473	0.036740	0.003111	0.001498	0.103790	0.000521	0.010318	0.005951	0.001621	0.016206
17-Sep-2032	4.478750	10.626600	16.842500	2.460240	36.665889	1.441920	0.015694	0.152617	0.036806	0.003112	0.001499	0.103809	0.000522	0.010329	0.005957	0.001622	0.016222
18-Sep-2032	4.151246	10.640600	16.871200	2.462760	36.711224	1.444930	0.015722	0.152899	0.036739	0.003117	0.001498	0.103791	0.000523	0.010331	0.005965	0.001624	0.016240
19-Sep-2032	3.788181	10.643000	16.876800	2.463540	36.720429	1.445460	0.015728	0.152957	0.036744	0.003116	0.001498	0.103827	0.000523	0.010330	0.005966	0.001625	0.016245
20-Sep-2032	3.309816	11.180800	17.857200	2.545320	38.400085	1.543840	0.016709	0.162778	0.037519	0.003280	0.001509	0.105303	0.000556	0.010736	0.006292	0.001706	0.017059
21-Sep-2032	2.987181	10.932100	17.404400	2.507480	37.623256	1.498470	0.016256	0.158238	0.037122	0.003205	0.001504	0.104579	0.000541	0.010546	0.006141	0.001668	0.016681
22-Sep-2032	2.882456	10.912600	17.373300	2.505290	37.565546	1.495630	0.016224	0.157920	0.036927	0.003202	0.001501	0.104497	0.000540	0.010516	0.006128	0.001665	0.016645
23-Sep-2032	2.315009	10.936600	17.415700	2.508870	37.640217	1.499850	0.016266	0.158348	0.036994	0.003209	0.001502	0.104617	0.000541	0.010538	0.006143	0.001668	0.016683
24-Sep-2032	1.819673	10.733700	17.045100	2.478690	37.009294	1.462650	0.015895	0.154626	0.036653	0.003150	0.001498	0.104132	0.000529	0.010383	0.006019	0.001637	0.016373
25-Sep-2032	1.672229	10.797700	17.160600	2.488500	37.209500	1.474110	0.016010	0.155780	0.036794	0.003168	0.001500	0.104315	0.000532	0.010435	0.006058	0.001647	0.016472
26-Sep-2032	1.417012	10.867000	17.289700	2.499410	37.427469	1.487320	0.016139	0.157078	0.036781	0.003192	0.001500	0.104529	0.000537	0.010478	0.006100	0.001657	0.016572
27-Sep-2032	1.050264	10.970200	17.478300	2.515220	37.750265	1.506240	0.016328	0.158966	0.036926	0.003223	0.001502	0.104804	0.000543	0.010555	0.006162	0.001673	0.016729
28-Sep-2032	0.856092	10.948400	17.438100	2.512320	37.683889	1.502210	0.016287	0.158560	0.036880	0.003218	0.001502	0.104808	0.000542	0.010538	0.006149	0.001669	0.016694
29-Sep-2032	0.245391	10.916300	17.381700	2.507790	37.585080	1.496580	0.016230	0.157987	0.036779	0.003207	0.001501	0.104638	0.000540	0.010508	0.006129	0.001664	0.016645
30-Sep-2032	0.008562	11.065900	17.656700	2.530230	38.051039	1.524550	0.016507	0.160766	0.036911	0.003257	0.001502	0.105134	0.000549	0.010615	0.006220	0.001687	0.016867
1-Oct-2032	0.241999	10.942900	17.431600	2.511800	37.668014	1.501960	0.016282	0.158509	0.036718	0.003221	0.001499	0.104842	0.000542	0.010522	0.006145	0.001668	0.016680
2-Oct-2032	0.243001	10.932000	17.411800	2.510190	37.634166	1.500000	0.016262	0.158312	0.036695	0.003218	0.001499	0.104832	0.000541	0.010514	0.006138	0.001666	0.016663
3-Oct-2032	0.069005	10.779500	17.134400	2.486600	37.156230	1.472350	0.015985	0.155545	0.036447	0.003173	0.001495	0.104462	0.000532	0.010398	0.006046	0.001643	0.016431
4-Oct-2032	0.033880	10.741300	17.064200	2.480640	37.036302	1.465300	0.015915	0.154845	0.036414	0.003162	0.001494	0.104377	0.000529	0.010371	0.006023	0.001637	0.016374
5-Oct-2032	0.057895	10.724400	17.033400	2.477990	36.983190	1.462260	0.015884	0.154539	0.036402	0.003157	0.001495	0.104282	0.000528	0.010358	0.006013	0.001635	0.016347
6-Oct-2032	0.144853	10.711900	17.010600	2.476000	36.943782	1.459980	0.015862	0.154313	0.036406	0.003153	0.001494	0.104244	0.000528	0.010349	0.006005	0.001633	0.016329
7-Oct-2032	0.199775	10.698700	16.986900	2.473750	36.901556	1.457670	0.015838	0.154082	0.036375	0.003149	0.001493	0.104207	0.000527	0.010339	0.005997	0.001631	0.016309
8-Oct-2032	0.240301	10.671800	16.937400	2.469340	36.816227	1.452720	0.015789	0.153590	0.036347	0.003141	0.001493	0.104140	0.000525	0.010322	0.005981	0.001627	0.016269
9-Oct-2032	0.075298	10.641700	16.883800	2.464240	36.720065	1.447560	0.015737	0.153070	0.036286	0.003134	0.001491	0.104114	0.000524	0.010297	0.005963	0.001622	0.016222
10-Oct-2032	0.031705	10.643600	16.887300	2.464550	36.726086	1.447890	0.015740	0.153104	0.036292	0.003134	0.001491	0.104045	0.000524	0.010299	0.005965	0.001623	0.016225
11-Oct-2032	0.010465	10.597700	16.803500	2.457120	36.580877	1.439600	0.015657	0.152277	0.036240	0.003121	0.001490	0.103944	0.000521	0.010267	0.005937	0.001616	0.016157
12-Oct-2032	0.002842	10.577700	16.768000	2.453740	36.517018	1.436220	0.015623	0.151935	0.036197	0.003116	0.001490	0.103897	0.000520	0.010249	0.005925	0.001612	0.016124
13-Oct-2032	0.058455	10.557200	16.730600	2.450320	36.451746	1.432510	0.015586	0.151566	0.036145	0.003110	0.001488	0.103849	0.000518	0.010235	0.005913	0.001609	0.016094
14-Oct-2032	0.060983	10.552300	16.723000	2.449130	36.434610	1.431860	0.015579	0.151497	0.036140	0.003108	0.001488	0.103834	0.000518	0.010230	0.005910	0.001609	0.016087
15-Oct-2032	0.066905	10.553600	16.724500	2.449670	36.440080	1.431950	0.015580	0.151509	0.036142	0.003108	0.001488	0.103817	0.000518	0.010233	0.005911	0.001609	0.016089
16-Oct-2032	0.070236	10.560600	16.735000	2.451400	36.464683	1.432770	0.015589	0.151599	0.036162	0.003111	0.001489	0.103957	0.000519	0.010239	0.005915	0.001610	0.016099
17-Oct-2032	0.072356	10.656800	16.885300	2.474360	36.799444	1.445430	0.015728	0.152948	0.036511	0.003139	0.001503	0.104906	0.000523	0.010335	0.005969	0.001625	0.016246
18-Oct-2032	0.074355	10.718100	16.978000	2.490100	37.017328	1.453020	0.015813	0.153765	0.036758	0.003160	0.001514	0.105721	0.000526	0.010397	0.006002	0.001634	0.016337
19-Oct-2032	0.076881	10.785000	17.084900	2.505610	37.248247	1.462270	0.015913	0.154741	0.036999	0.003179	0.001524	0.106326	0.000529	0.010465	0.006040	0.001644	0.016442
20-Oct-2032	0.079307	10.843800	17.178600	2.518760	37.449222	1.470300	0.016001	0.155590	0.037153	0.003196	0.001531	0.106882	0.000532	0.010518	0.006073	0.001653	0.016530
21-Oct-2032	0.081080	10.901400	17.269300	2.532300	37.648807	1.478000	0.016085	0.156408	0.037354	0.003213	0.001539	0.107468	0.000535	0.010575	0.006105	0.001662	0.016617
22-Oct-2032	0.081316	10.935500	17.322800	2.540420	37.767393	1.482510	0.016134	0.156888	0.037476	0.003223	0.001544	0.107826	0.000537	0.010608	0.006124	0.001667	0.016669

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Oct-2032	0.080852	10.881000	17.237600	2.527280	37.577196	1.475300	0.016055	0.156122	0.037301	0.003206	0.001536	0.107214	0.000534	0.010555	0.006094	0.001659	0.016588
24-Oct-2032	0.080847	10.945600	17.339200	2.542510	37.801219	1.483920	0.016150	0.157038	0.037528	0.003225	0.001546	0.107874	0.000537	0.010619	0.006130	0.001669	0.016686
25-Oct-2032	0.080882	11.004400	17.432300	2.556210	38.004460	1.491880	0.016236	0.157880	0.037730	0.003242	0.001554	0.108458	0.000540	0.010676	0.006163	0.001678	0.016776
26-Oct-2032	0.080890	11.049400	17.503600	2.566650	38.159817	1.497990	0.016303	0.158527	0.037883	0.003255	0.001560	0.108902	0.000542	0.010720	0.006188	0.001684	0.016844
27-Oct-2032	0.081091	11.106000	17.593600	2.579720	38.354969	1.505720	0.016387	0.159344	0.038073	0.003272	0.001568	0.109452	0.000545	0.010774	0.006220	0.001693	0.016930
28-Oct-2032	0.081630	11.154200	17.670300	2.590760	38.520787	1.512330	0.016458	0.160041	0.038234	0.003286	0.001575	0.109912	0.000547	0.010820	0.006247	0.001700	0.017004
29-Oct-2032	0.082660	11.197000	17.737600	2.600870	38.669292	1.518050	0.016521	0.160648	0.038382	0.003299	0.001581	0.110355	0.000550	0.010862	0.006270	0.001707	0.017069
30-Oct-2032	0.083978	11.228500	17.787700	2.608180	38.778050	1.522340	0.016568	0.161102	0.038489	0.003308	0.001585	0.110664	0.000551	0.010893	0.006288	0.001712	0.017117
31-Oct-2032	0.084629	11.243700	17.812200	2.611590	38.830047	1.524480	0.016591	0.161326	0.038538	0.003313	0.001587	0.110801	0.000552	0.010907	0.006297	0.001714	0.017140
1-Nov-2032	0.084946	11.280800	17.871300	2.620070	38.957606	1.529580	0.016646	0.161864	0.038661	0.003324	0.001592	0.111152	0.000554	0.010943	0.006318	0.001720	0.017197
2-Nov-2032	0.085297	11.340100	17.965300	2.633860	39.162465	1.537620	0.016733	0.162715	0.038864	0.003341	0.001601	0.111739	0.000557	0.011000	0.006351	0.001729	0.017287
3-Nov-2032	0.085232	11.285000	17.878100	2.621050	38.972129	1.530180	0.016652	0.161927	0.038672	0.003325	0.001593	0.111196	0.000554	0.010946	0.006320	0.001720	0.017203
4-Nov-2032	0.085446	11.334300	17.956100	2.632500	39.142382	1.536850	0.016725	0.162632	0.038841	0.003340	0.001600	0.111684	0.000556	0.010994	0.006347	0.001728	0.017278
5-Nov-2032	0.085717	11.396200	18.053700	2.647040	39.356822	1.545160	0.016816	0.163514	0.039056	0.003358	0.001609	0.112312	0.000559	0.011055	0.006382	0.001737	0.017372
6-Nov-2032	0.085819	11.462500	18.158100	2.662610	39.586490	1.554040	0.016913	0.164456	0.039286	0.003378	0.001618	0.112987	0.000563	0.011120	0.006419	0.001747	0.017473
7-Nov-2032	0.085721	11.521800	18.251600	2.676540	39.791926	1.562000	0.016999	0.165301	0.039492	0.003395	0.001627	0.113589	0.000565	0.011178	0.006452	0.001756	0.017564
8-Nov-2032	0.085672	11.570100	18.327600	2.687880	39.959230	1.568470	0.017070	0.165987	0.039660	0.003410	0.001634	0.114082	0.000568	0.011225	0.006479	0.001764	0.017637
9-Nov-2032	0.085843	11.626900	18.417300	2.701240	40.156076	1.576100	0.017153	0.166796	0.039856	0.003426	0.001642	0.114661	0.000571	0.011280	0.006511	0.001772	0.017724
10-Nov-2032	0.086051	11.693600	18.522400	2.716850	40.386908	1.585070	0.017251	0.167746	0.040085	0.003446	0.001652	0.115336	0.000574	0.011345	0.006548	0.001783	0.017825
11-Nov-2032	0.086277	11.739700	18.595100	2.727710	40.546741	1.591250	0.017319	0.168403	0.040243	0.003460	0.001658	0.115810	0.000576	0.011390	0.006574	0.001790	0.017895
12-Nov-2032	0.086503	11.775700	18.652000	2.736090	40.671142	1.596120	0.017372	0.168918	0.040367	0.003471	0.001664	0.116167	0.000578	0.011425	0.006594	0.001795	0.017950
13-Nov-2032	0.086491	11.819400	18.721400	2.746240	40.822058	1.602060	0.017436	0.169546	0.040516	0.003484	0.001670	0.116597	0.000580	0.011467	0.006619	0.001802	0.018017
14-Nov-2032	0.086412	11.870400	18.802200	2.758060	40.998080	1.608980	0.017512	0.170279	0.040690	0.003499	0.001677	0.117098	0.000583	0.011517	0.006647	0.001809	0.018094
15-Nov-2032	0.086351	11.911300	18.867000	2.767580	41.139411	1.614530	0.017572	0.170865	0.040830	0.003511	0.001683	0.117504	0.000585	0.011557	0.006670	0.001816	0.018157
16-Nov-2032	0.086376	11.950300	18.928500	2.776680	41.274267	1.619780	0.017629	0.171422	0.040964	0.003522	0.001688	0.117895	0.000586	0.011594	0.006692	0.001822	0.018216
17-Nov-2032	0.086412	11.968200	18.956600	2.780950	41.336548	1.622160	0.017655	0.171675	0.041026	0.003528	0.001691	0.118085	0.000587	0.011612	0.006702	0.001824	0.018243
18-Nov-2032	0.086487	12.006800	19.017300	2.790060	41.470447	1.627310	0.017712	0.172222	0.041159	0.003539	0.001697	0.118486	0.000589	0.011650	0.006723	0.001830	0.018302
19-Nov-2032	0.086577	12.068600	19.115400	2.804390	41.683772	1.635720	0.017803	0.173111	0.041369	0.003558	0.001705	0.119091	0.000592	0.011710	0.006758	0.001840	0.018396
20-Nov-2032	0.086593	12.123900	19.203100	2.817170	41.874484	1.643250	0.017885	0.173907	0.041558	0.003574	0.001713	0.119629	0.000595	0.011763	0.006789	0.001848	0.018480
21-Nov-2032	0.086665	12.184000	19.298300	2.831120	42.082000	1.651390	0.017974	0.174769	0.041764	0.003591	0.001721	0.120220	0.000598	0.011821	0.006823	0.001857	0.018572
22-Nov-2032	0.086800	12.254400	19.409700	2.847510	42.325283	1.660910	0.018077	0.175777	0.042005	0.003612	0.001731	0.120920	0.000601	0.011890	0.006862	0.001868	0.018679
23-Nov-2032	0.086916	12.315700	19.506700	2.861800	42.537195	1.669210	0.018168	0.176655	0.042216	0.003630	0.001740	0.121530	0.000604	0.011949	0.006896	0.001877	0.018773
24-Nov-2032	0.086820	12.273800	19.440000	2.852200	42.393038	1.663470	0.018105	0.176049	0.042073	0.003618	0.001734	0.121133	0.000602	0.011909	0.006873	0.001871	0.018709
25-Nov-2032	0.086777	12.338200	19.541600	2.867250	42.615821	1.672130	0.018200	0.176967	0.042295	0.003637	0.001744	0.121781	0.000605	0.011972	0.006909	0.001881	0.018807
26-Nov-2032	0.086882	12.398900	19.637700	2.881400	42.825659	1.680350	0.018289	0.177837	0.042503	0.003655	0.001752	0.122385	0.000608	0.012031	0.006943	0.001890	0.018899
27-Nov-2032	0.086962	12.447000	19.713700	2.892640	42.992051	1.686830	0.018360	0.178524	0.042669	0.003670	0.001759	0.122869	0.000611	0.012077	0.006970	0.001897	0.018973
28-Nov-2032	0.086908	12.482800	19.769800	2.901120	43.116364	1.691590	0.018412	0.179029	0.042792	0.003680	0.001764	0.123244	0.000612	0.012113	0.006990	0.001903	0.019027
29-Nov-2032	0.086949	12.532100	19.847600	2.912690	43.287111	1.698220	0.018484	0.179732	0.042962	0.003695	0.001771	0.123745	0.000615	0.012161	0.007017	0.001910	0.019102
30-Nov-2032	0.087025	12.572200	19.911000	2.922040	43.425744	1.703630	0.018543	0.180306	0.043100	0.003707	0.001777	0.124145	0.000617	0.012200	0.007040	0.001916	0.019163
1-Dec-2032	0.086812	12.619500	19.985500	2.933170	43.589686	1.709970	0.018613	0.180978	0.043263	0.003721	0.001784	0.124630	0.000619	0.012246	0.007066	0.001924	0.019235
2-Dec-2032	0.086791	12.675700	20.074100	2.946370	43.784375	1.717520	0.018695	0.181779	0.043456	0.003738	0.001792	0.125203	0.000622	0.012301	0.007098	0.001932	0.019321
3-Dec-2032	0.086834	12.722800	20.148400	2.957430	43.947528	1.723860	0.018764	0.182450	0.043618	0.003752	0.001799	0.125682	0.000624	0.012347	0.007124	0.001939	0.019392
4-Dec-2032	0.086855	12.774600	20.230000	2.969610	44.127030	1.730790	0.018840	0.183186	0.043797	0.003767	0.001806	0.126212	0.000627	0.012397	0.007153	0.001947	0.019471
5-Dec-2032	0.086839	12.844600	20.340600	2.985980	44.369232	1.740230	0.018943	0.184186	0.044038	0.003788	0.001816	0.126917	0.000630	0.012465	0.007192	0.001958	0.019578
6-Dec-2032	0.086871	12.924300	20.466500	3.004580	44.644838	1.750980	0.019060	0.185325	0.044312	0.003812	0.001828	0.127715	0.000634	0.012543	0.007236	0.001970	0.019699
7-Dec-2032	0.086828	12.996300	20.580300	3.021390	44.893845	1.760710	0.019166	0.186355	0.044559	0.003833	0.001838	0.128435	0.000638	0.012613	0.007277	0.001981	0.019809
8-Dec-2032	0.086778	13.079500	20.712000	3.040780	45.181444	1.771960	0.019288	0.187546	0.044845	0.003857	0.001850	0.129263	0.000642	0.012694	0.007323	0.001994	0.019936
9-Dec-2032	0.086812	13.162100	20.842400	3.060040	45.467008	1.783100	0.019410	0.188727	0.045128	0.003882	0.001862	0.130088	0.000646	0.012774	0.007370	0.002006	0.020061
10-Dec-2032	0.086805	13.241500	20.968000	3.078570	45.741577	1.793830	0.019527	0.189863	0.045401	0.003905	0.001873	0.130882	0.000650	0.012851	0.007414	0.002018	0.020182
11-Dec-2032	0.086756	12.919500	20.457300	3.003950	44.630258	1.750080	0.019051	0.185235	0.044299	0.003811	0.001828	0.127731	0.000634	0.012539	0.007234	0.001969	0.019691
12-Dec-2032	0.086783	12.821000	20.295100	2.983070	44.298319	1.735670	0.018897	0.183733	0.043976	0.003784	0.001816	0.127023	0.000629	0.012448	0.007177	0.001954	0.019539
13-Dec-2032	0.086786	12.919500	20.448400	3.006810	44.642035	1.748550	0.019039	0.185108	0.044323	0.003814	0.001831	0.128105	0.000633	0.012546	0.007232	0.001969	0.019688

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
14-Dec-2032	0.086706	12.888900	20.403200	2.998730	44.532353	1.744960	0.018998	0.184714	0.044207	0.003804	0.001826	0.127678	0.000632	0.012514	0.007215	0.001964	0.019643
15-Dec-2032	0.086725	12.939200	20.483200	3.010320	44.705680	1.751830	0.019073	0.185441	0.044378	0.003819	0.001833	0.128161	0.000634	0.012562	0.007244	0.001972	0.019720
16-Dec-2032	0.086742	13.010400	20.593700	3.027580	44.954543	1.761090	0.019175	0.186429	0.044630	0.003841	0.001844	0.128957	0.000638	0.012633	0.007283	0.001983	0.019827
17-Dec-2032	0.086695	13.065900	20.682900	3.040010	45.144313	1.768840	0.019259	0.187245	0.044815	0.003857	0.001851	0.129446	0.000641	0.012686	0.007314	0.001991	0.019912
18-Dec-2032	0.086695	13.139200	20.798900	3.057110	45.397761	1.778750	0.019367	0.188294	0.045067	0.003878	0.001861	0.130177	0.000644	0.012757	0.007355	0.002002	0.020024
19-Dec-2032	0.086707	13.246300	20.966600	3.082600	45.770158	1.792940	0.019522	0.189803	0.045440	0.003910	0.001877	0.131311	0.000649	0.012862	0.007415	0.002019	0.020187
20-Dec-2032	0.086626	13.272600	21.010800	3.087900	45.857654	1.796940	0.019564	0.190217	0.045522	0.003917	0.001880	0.131467	0.000651	0.012886	0.007430	0.002023	0.020227
21-Dec-2032	0.086660	13.374000	21.169900	3.111940	46.209847	1.810430	0.019712	0.191650	0.045874	0.003948	0.001895	0.132529	0.000656	0.012986	0.007487	0.002038	0.020382
22-Dec-2032	0.086654	13.473400	21.326400	3.135350	46.554451	1.823740	0.019857	0.193062	0.046218	0.003977	0.001909	0.133550	0.000661	0.013083	0.007542	0.002053	0.020533
23-Dec-2032	0.086606	13.509900	21.386000	3.143280	46.678247	1.829000	0.019913	0.193611	0.046337	0.003988	0.001914	0.133838	0.000662	0.013117	0.007563	0.002059	0.020589
24-Dec-2032	0.086624	13.601000	21.529800	3.164570	46.993396	1.841260	0.020047	0.194911	0.046651	0.004015	0.001927	0.134755	0.000667	0.013205	0.007614	0.002073	0.020728
25-Dec-2032	0.086623	13.702000	21.688900	3.188340	47.343478	1.854790	0.020195	0.196347	0.047000	0.004045	0.001941	0.135789	0.000672	0.013304	0.007670	0.002088	0.020881
26-Dec-2032	0.086586	13.743600	21.755800	3.197650	47.485692	1.860620	0.020258	0.196959	0.047139	0.004057	0.001947	0.136155	0.000674	0.013344	0.007694	0.002095	0.020945
27-Dec-2032	0.086592	13.829700	21.891600	3.217840	47.783826	1.872190	0.020384	0.198186	0.047435	0.004082	0.001959	0.137028	0.000678	0.013428	0.007742	0.002108	0.021076
28-Dec-2032	0.086542	13.894100	21.993500	3.232870	48.006526	1.880890	0.020479	0.199107	0.047657	0.004101	0.001968	0.137672	0.000681	0.013490	0.007778	0.002117	0.021174
29-Dec-2032	0.086524	13.910600	22.020700	3.236360	48.062099	1.883310	0.020505	0.199359	0.047710	0.004106	0.001970	0.137791	0.000682	0.013505	0.007787	0.002120	0.021200
30-Dec-2032	0.086541	13.977400	22.126500	3.251910	48.292933	1.892360	0.020603	0.200317	0.047939	0.004125	0.001980	0.138452	0.000685	0.013570	0.007825	0.002130	0.021302
31-Dec-2032	0.086541	14.052200	22.244400	3.269460	48.551980	1.902400	0.020713	0.201382	0.048197	0.004148	0.001990	0.139213	0.000689	0.013643	0.007867	0.002142	0.021415
1-Jan-2033	0.086484	14.091800	22.307600	3.278470	48.687964	1.907860	0.020772	0.201958	0.048330	0.004159	0.001996	0.139580	0.000691	0.013681	0.007889	0.002148	0.021476
2-Jan-2033	0.086496	14.143700	22.390200	3.290480	48.867016	1.914940	0.020849	0.202706	0.048508	0.004174	0.002003	0.140084	0.000694	0.013732	0.007918	0.002156	0.021555
3-Jan-2033	0.086494	14.214900	22.502300	3.307190	49.113614	1.924500	0.020953	0.203719	0.048753	0.004196	0.002013	0.140809	0.000697	0.013801	0.007958	0.002166	0.021663
4-Jan-2033	0.086445	14.264800	22.581500	3.318740	49.285777	1.931280	0.021027	0.204436	0.048924	0.004210	0.002020	0.141297	0.000699	0.013849	0.007986	0.002174	0.021740
5-Jan-2033	0.086445	14.301100	22.639500	3.327020	49.410515	1.936290	0.021081	0.204965	0.049047	0.004221	0.002025	0.141634	0.000701	0.013884	0.008006	0.002180	0.021795
6-Jan-2033	0.086449	14.376000	22.757600	3.344600	49.669935	1.946350	0.021191	0.206032	0.049305	0.004243	0.002036	0.142396	0.000705	0.013957	0.008048	0.002191	0.021909
7-Jan-2033	0.086419	14.434400	22.849900	3.358250	49.871970	1.954220	0.021277	0.206866	0.049506	0.004260	0.002044	0.142983	0.000708	0.014014	0.008081	0.002200	0.021998
8-Jan-2033	0.086405	14.455600	22.884400	3.362880	49.943973	1.957260	0.021309	0.207183	0.049575	0.004266	0.002047	0.143153	0.000709	0.014034	0.008093	0.002203	0.022031
9-Jan-2033	0.086412	14.541900	23.020500	3.383140	50.242895	1.968850	0.021436	0.208413	0.049873	0.004292	0.002059	0.144031	0.000713	0.014118	0.008141	0.002216	0.022162
10-Jan-2033	0.086407	14.603500	23.117400	3.397600	50.456256	1.977100	0.021526	0.209288	0.050085	0.004310	0.002068	0.144659	0.000716	0.014178	0.008175	0.002226	0.022256
11-Jan-2033	0.086369	14.640900	23.177400	3.406100	50.584647	1.982290	0.021582	0.209835	0.050212	0.004321	0.002073	0.145003	0.000718	0.014214	0.008196	0.002231	0.022313
12-Jan-2033	0.086377	14.706500	23.281200	3.421390	50.811415	1.991160	0.021678	0.210774	0.050437	0.004340	0.002083	0.145656	0.000721	0.014278	0.008233	0.002241	0.022413
13-Jan-2033	0.086379	14.768100	23.378100	3.435890	51.024941	1.999410	0.021769	0.211649	0.050650	0.004359	0.002092	0.146288	0.000724	0.014338	0.008267	0.002251	0.022507
14-Jan-2033	0.086340	14.822800	23.464800	3.448580	51.213784	2.006830	0.021849	0.212434	0.050837	0.004375	0.002099	0.146826	0.000727	0.014391	0.008298	0.002259	0.022590
15-Jan-2033	0.086344	14.876300	23.549700	3.460910	51.398148	2.014120	0.021928	0.213204	0.051019	0.004391	0.002107	0.147342	0.000729	0.014443	0.008328	0.002267	0.022671
16-Jan-2033	0.086347	14.938800	23.648100	3.475640	51.614869	2.022480	0.022020	0.214091	0.051235	0.004409	0.002116	0.147986	0.000732	0.014504	0.008363	0.002277	0.022767
17-Jan-2033	0.086312	14.998600	23.742600	3.489640	51.821842	2.030540	0.022108	0.214945	0.051441	0.004427	0.002124	0.148589	0.000735	0.014562	0.008396	0.002286	0.022858
18-Jan-2033	0.086304	15.037800	23.805300	3.498530	51.956333	2.035960	0.022166	0.215517	0.051573	0.004438	0.002130	0.148948	0.000737	0.014600	0.008418	0.002292	0.022918
19-Jan-2033	0.086310	15.121300	23.936800	3.518210	52.245875	2.047150	0.022289	0.216704	0.051862	0.004463	0.002142	0.149806	0.000741	0.014681	0.008465	0.002304	0.023045
20-Jan-2033	0.086291	15.156200	23.992100	3.526310	52.366376	2.051880	0.022340	0.217205	0.051981	0.004474	0.002147	0.150150	0.000743	0.014715	0.008485	0.002310	0.023098
21-Jan-2033	0.086273	15.216700	24.088100	3.540320	52.575138	2.060110	0.022430	0.218075	0.052188	0.004491	0.002155	0.150741	0.000746	0.014774	0.008519	0.002319	0.023190
22-Jan-2033	0.086276	15.304300	24.226400	3.560780	52.878129	2.071910	0.022558	0.219325	0.052489	0.004517	0.002168	0.151620	0.000750	0.014859	0.008567	0.002332	0.023323
23-Jan-2033	0.086272	15.335500	24.276200	3.567970	52.985644	2.076190	0.022605	0.219778	0.052596	0.004526	0.002172	0.151919	0.000752	0.014889	0.008585	0.002337	0.023371
24-Jan-2033	0.086238	15.365000	24.323600	3.574530	53.086320	2.080330	0.022649	0.220212	0.052694	0.004535	0.002176	0.152173	0.000753	0.014917	0.008602	0.002342	0.023416
25-Jan-2033	0.086226	15.426700	24.421700	3.588810	53.299189	2.088740	0.022741	0.221101	0.052905	0.004553	0.002185	0.152773	0.000756	0.014977	0.008636	0.002351	0.023510
26-Jan-2033	0.086213	15.456000	24.468300	3.595550	53.400107	2.092740	0.022784	0.221524	0.053004	0.004561	0.002189	0.153054	0.000758	0.015005	0.008653	0.002356	0.023555
27-Jan-2033	0.086204	15.512100	24.557200	3.608540	53.593681	2.100370	0.022867	0.222331	0.053196	0.004578	0.002196	0.153602	0.000761	0.015059	0.008684	0.002364	0.023641
28-Jan-2033	0.086193	15.602100	24.699800	3.629430	53.904436	2.112570	0.023000	0.223622	0.053504	0.004604	0.002209	0.154488	0.000765	0.015146	0.008735	0.002378	0.023778
29-Jan-2033	0.086183	15.694700	24.846600	3.650940	54.224237	2.125140	0.023136	0.224952	0.053821	0.004632	0.002222	0.155399	0.000770	0.015236	0.008786	0.002392	0.023919
30-Jan-2033	0.086169	15.790600	24.998500	3.673190	54.555325	2.138140	0.023278	0.226328	0.054150	0.004660	0.002236	0.156343	0.000774	0.015329	0.008840	0.002407	0.024065
31-Jan-2033	0.086162	15.886000	25.149700	3.695350	54.884793	2.151080	0.023419	0.227697	0.054477	0.004688	0.002249	0.157283	0.000779	0.015422	0.008894	0.002421	0.024211
1-Feb-2033	0.086157	15.968700	25.281800	3.714220	55.169002	2.162470	0.023542	0.228899	0.054758	0.004712	0.002260	0.158053	0.000783	0.015501	0.008940	0.002434	0.024337
2-Feb-2033	0.086152	16.181400	25.618600	3.763690	55.903831	2.191290	0.023856	0.231949	0.055488	0.004775	0.002291	0.160157	0.000794	0.015708	0.009059	0.002466	0.024661
3-Feb-2033	0.086145	16.431900	26.015200	3.821960	56.769286	2.225210	0.024225	0.235539	0.056347	0.004849	0.002326	0.162636	0.000806	0.015951	0.009199	0.002504	0.025043

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
4-Feb-2033	0.086145	16.679300	26.406900	3.879500	57.623993	2.258720	0.024590	0.239086	0.057195	0.004922	0.002361	0.165085	0.000818	0.016191	0.009338	0.002542	0.025420
5-Feb-2033	0.086144	16.912100	26.775500	3.933650	58.428284	2.290240	0.024933	0.242423	0.057993	0.004990	0.002394	0.167389	0.000829	0.016417	0.009468	0.002577	0.025775
6-Feb-2033	0.086137	17.133000	27.125100	3.985000	59.191331	2.320150	0.025259	0.245588	0.058750	0.005056	0.002425	0.169574	0.000840	0.016631	0.009592	0.002611	0.026112
7-Feb-2033	0.086136	17.344700	27.460400	4.034260	59.922799	2.348830	0.025571	0.248624	0.059476	0.005118	0.002455	0.171670	0.000851	0.016837	0.009710	0.002643	0.026434
8-Feb-2033	0.086134	17.561900	27.804200	4.084770	60.673147	2.378240	0.025891	0.251737	0.060221	0.005182	0.002486	0.173818	0.000861	0.017048	0.009832	0.002677	0.026765
9-Feb-2033	0.086126	17.768100	28.130600	4.132710	61.385445	2.406160	0.026195	0.254692	0.060928	0.005243	0.002515	0.175859	0.000871	0.017248	0.009947	0.002708	0.027079
10-Feb-2033	0.086122	17.926700	28.381700	4.169590	61.933342	2.427640	0.026429	0.256966	0.061472	0.005290	0.002538	0.177428	0.000879	0.017402	0.010036	0.002732	0.027321
11-Feb-2033	0.086118	18.010300	28.514200	4.189040	62.222186	2.438970	0.026552	0.258165	0.061758	0.005314	0.002549	0.178255	0.000883	0.017483	0.010083	0.002745	0.027449
12-Feb-2033	0.086113	18.220400	28.846700	4.237890	62.947970	2.467420	0.026862	0.261177	0.062478	0.005376	0.002579	0.180333	0.000894	0.017687	0.010201	0.002777	0.027769
13-Feb-2033	0.086108	18.500500	29.290300	4.303050	63.915708	2.505370	0.027275	0.265193	0.063439	0.005459	0.002619	0.183105	0.000907	0.017959	0.010358	0.002820	0.028196
14-Feb-2033	0.086105	18.814600	29.787500	4.376090	65.000795	2.547900	0.027738	0.269695	0.064516	0.005552	0.002663	0.186213	0.000923	0.018264	0.010533	0.002867	0.028674
15-Feb-2033	0.086103	19.132900	30.291600	4.450130	66.100487	2.591010	0.028207	0.274258	0.065607	0.005646	0.002708	0.189363	0.000938	0.018573	0.010712	0.002916	0.029160
16-Feb-2033	0.086101	19.500400	30.873400	4.535610	67.370141	2.640780	0.028749	0.279527	0.066867	0.005754	0.002760	0.193000	0.000956	0.018929	0.010917	0.002972	0.029720
17-Feb-2033	0.086102	19.838000	31.407900	4.614120	68.536432	2.686500	0.029247	0.284366	0.068025	0.005854	0.002808	0.196341	0.000973	0.019257	0.011106	0.003023	0.030234
18-Feb-2033	0.086102	20.173600	31.939200	4.692170	69.695835	2.731940	0.029742	0.289176	0.069176	0.005953	0.002856	0.199662	0.000989	0.019583	0.011294	0.003075	0.030746
19-Feb-2033	0.086102	20.515900	32.481200	4.771800	70.878475	2.778300	0.030246	0.294083	0.070350	0.006054	0.002904	0.203050	0.001006	0.019915	0.011486	0.003127	0.031267
20-Feb-2033	0.086102	20.841500	32.996600	4.847520	72.003313	2.822390	0.030726	0.298750	0.071466	0.006150	0.002950	0.206272	0.001022	0.020231	0.011668	0.003176	0.031763
21-Feb-2033	0.086098	19.110900	30.256400	4.445120	66.024921	2.587980	0.028175	0.273939	0.065532	0.005639	0.002705	0.189159	0.000937	0.018552	0.010699	0.002913	0.029126
22-Feb-2033	0.086097	19.376800	30.677300	4.506960	66.943531	2.623980	0.028566	0.277749	0.066444	0.005718	0.002743	0.191791	0.000950	0.018810	0.010848	0.002953	0.029531
23-Feb-2033	0.086097	19.629500	31.077400	4.565740	67.816579	2.658200	0.028939	0.281371	0.067310	0.005792	0.002779	0.194293	0.000963	0.019055	0.010990	0.002992	0.029916
24-Feb-2033	0.086099	19.864800	31.449900	4.620470	68.629501	2.690060	0.029286	0.284744	0.068117	0.005862	0.002812	0.196623	0.000974	0.019283	0.011121	0.003027	0.030275
25-Feb-2033	0.086098	20.099200	31.821000	4.674990	69.439311	2.721800	0.029631	0.288103	0.068921	0.005931	0.002845	0.198943	0.000986	0.019511	0.011253	0.003063	0.030632
26-Feb-2033	0.086098	19.637500	31.089200	4.567910	67.845491	2.659130	0.028950	0.281474	0.067341	0.005795	0.002780	0.194411	0.000963	0.019063	0.010994	0.002993	0.029928
27-Feb-2033	0.086097	19.849700	31.425100	4.617260	68.578578	2.687860	0.029262	0.284514	0.068068	0.005858	0.002810	0.196512	0.000973	0.019269	0.011113	0.003025	0.030252
28-Feb-2033	0.086096	20.061000	31.759600	4.666410	69.308593	2.716460	0.029574	0.287542	0.068793	0.005920	0.002840	0.198604	0.000984	0.019475	0.011231	0.003057	0.030574
1-Mar-2033	0.086096	20.281700	32.109100	4.717770	70.071182	2.746360	0.029899	0.290707	0.069550	0.005985	0.002871	0.200790	0.000995	0.019689	0.011355	0.003091	0.030910
2-Mar-2033	0.086095	20.514000	32.476800	4.771810	70.873772	2.777810	0.030242	0.294036	0.070346	0.006054	0.002904	0.203090	0.001006	0.019914	0.011485	0.003126	0.031264
3-Mar-2033	0.086095	20.757000	32.861500	4.828330	71.713292	2.810710	0.030600	0.297519	0.071180	0.006125	0.002939	0.205496	0.001018	0.020150	0.011621	0.003163	0.031634
4-Mar-2033	0.086094	21.015100	33.270000	4.888370	72.605012	2.845660	0.030980	0.301218	0.072065	0.006202	0.002975	0.208052	0.001031	0.020401	0.011765	0.003203	0.032028
5-Mar-2033	0.086094	21.284300	33.696200	4.950980	73.535033	2.882100	0.031377	0.305076	0.072988	0.006281	0.003013	0.210717	0.001044	0.020662	0.011916	0.003244	0.032438
6-Mar-2033	0.086093	21.565200	34.140900	5.016330	74.505551	2.920140	0.031791	0.309102	0.073951	0.006364	0.003053	0.213499	0.001058	0.020935	0.012073	0.003287	0.032866
7-Mar-2033	0.086093	21.855600	34.600600	5.083880	75.508851	2.959460	0.032219	0.313264	0.074947	0.006450	0.003094	0.216374	0.001072	0.021217	0.012236	0.003331	0.033309
8-Mar-2033	0.086093	22.155500	35.075400	5.153650	76.545014	3.000070	0.032661	0.317563	0.075975	0.006538	0.003137	0.219343	0.001086	0.021508	0.012404	0.003377	0.033766
9-Mar-2033	0.086093	22.465200	35.565800	5.225700	77.615037	3.042010	0.033118	0.322003	0.077038	0.006630	0.003181	0.222410	0.001102	0.021809	0.012577	0.003424	0.034238
10-Mar-2033	0.086093	22.785300	36.072500	5.300160	78.720953	3.085350	0.033590	0.326590	0.078135	0.006724	0.003226	0.225579	0.001117	0.022119	0.012756	0.003473	0.034726
11-Mar-2033	0.086092	23.118600	36.600200	5.377700	79.872513	3.130490	0.034081	0.331368	0.079278	0.006822	0.003273	0.228880	0.001134	0.022443	0.012943	0.003523	0.035233
12-Mar-2033	0.086090	19.304500	30.563400	4.489990	66.693115	2.614280	0.028461	0.276720	0.066194	0.005696	0.002733	0.191056	0.000947	0.018739	0.010808	0.002942	0.029421
13-Mar-2033	0.086090	19.421400	30.748400	4.517170	67.096942	2.630100	0.028633	0.278395	0.066595	0.005731	0.002749	0.192212	0.000952	0.018853	0.010873	0.002960	0.029599
14-Mar-2033	0.086090	19.541400	30.938400	4.545090	67.511556	2.646350	0.028810	0.280116	0.067007	0.005766	0.002766	0.193400	0.000958	0.018969	0.010940	0.002978	0.029782
15-Mar-2033	0.086090	19.664500	31.133300	4.573720	67.936835	2.663030	0.028991	0.281880	0.067429	0.005802	0.002783	0.194619	0.000964	0.019089	0.011009	0.002997	0.029970
16-Mar-2033	0.086090	19.810900	31.365100	4.607770	68.442614	2.682850	0.029207	0.283979	0.067931	0.005846	0.002804	0.196068	0.000972	0.019231	0.011091	0.003019	0.030193
17-Mar-2033	0.086091	19.968900	31.615300	4.644530	68.988518	2.704250	0.029440	0.286244	0.068473	0.005892	0.002827	0.197632	0.000979	0.019384	0.011180	0.003043	0.030434
18-Mar-2033	0.086091	20.128600	31.868100	4.681670	69.540231	2.725880	0.029676	0.288533	0.069020	0.005939	0.002849	0.199213	0.000987	0.019539	0.011269	0.003068	0.030677
19-Mar-2033	0.086091	20.289500	32.122900	4.719100	70.096135	2.747670	0.029913	0.290840	0.069572	0.005987	0.002872	0.200805	0.000995	0.019695	0.011359	0.003092	0.030922
20-Mar-2033	0.086091	20.450700	32.378000	4.756580	70.652994	2.769490	0.030150	0.293150	0.070124	0.006034	0.002895	0.202400	0.001003	0.019852	0.011449	0.003117	0.031168
21-Mar-2033	0.086091	20.610700	32.631500	4.793810	71.205827	2.791170	0.030386	0.295444	0.070673	0.006082	0.002917	0.203984	0.001011	0.020007	0.011539	0.003141	0.031412
22-Mar-2033	0.086091	20.770000	32.883600	4.830860	71.756171	2.812740	0.030621	0.297727	0.071220	0.006129	0.002940	0.205560	0.001019	0.020162	0.011628	0.003165	0.031655
23-Mar-2033	0.086091	20.930100	33.137100	4.868090	72.309254	2.834420	0.030857	0.300022	0.071769	0.006176	0.002963	0.207145	0.001026	0.020317	0.011718	0.003190	0.031899
24-Mar-2033	0.086091	21.090900	33.391700	4.905490	72.864785	2.856200	0.031094	0.302327	0.072320	0.006223	0.002985	0.208736	0.001034	0.020473	0.011808	0.003214	0.032144
25-Mar-2033	0.086092	21.251800	33.646400	4.942920	73.420689	2.877990	0.031331	0.304634	0.072872	0.006271	0.003008	0.210329	0.001042	0.020629	0.011898	0.003239	0.032389
26-Mar-2033	0.086092	21.411600	33.899300	4.980070	73.972693	2.899620	0.031567	0.306924	0.073419	0.006318	0.003031	0.211910	0.001050	0.020784	0.011987	0.003263	0.032632
27-Mar-2033	0.086092	21.569400	34.149300	5.016790	74.517933	2.921000	0.031800	0.309187	0.073961	0.006365	0.003053	0.213472	0.001058	0.020938	0.012076	0.003287	0.032873

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Mar-2033	0.086092	21.729500	34.402700	5.054030	75.071057	2.942680	0.032036	0.311482	0.074510	0.006412	0.003076	0.215057	0.001066	0.021093	0.012165	0.003312	0.033117
29-Mar-2033	0.086092	21.889900	34.656700	5.091330	75.625177	2.964400	0.032272	0.313780	0.075060	0.006459	0.003098	0.216644	0.001074	0.021249	0.012255	0.003336	0.033361
30-Mar-2033	0.086092	22.049600	34.909500	5.128480	76.176932	2.986030	0.032508	0.316070	0.075607	0.006506	0.003121	0.218225	0.001081	0.021404	0.012345	0.003360	0.033605
31-Mar-2033	0.086092	22.215600	35.172300	5.167070	76.750347	3.008500	0.032752	0.318449	0.076176	0.006555	0.003145	0.219867	0.001089	0.021565	0.012437	0.003386	0.033858
1-Apr-2033	0.086092	22.358400	35.398400	5.200300	77.243760	3.027850	0.032963	0.320497	0.076666	0.006597	0.003165	0.221281	0.001097	0.021704	0.012517	0.003408	0.034075
2-Apr-2033	0.086092	22.360400	35.401500	5.200750	77.250607	3.028110	0.032966	0.320524	0.076673	0.006598	0.003165	0.221300	0.001097	0.021705	0.012519	0.003408	0.034078
3-Apr-2033	0.086092	22.334400	35.360400	5.194720	77.160854	3.024600	0.032928	0.320153	0.076584	0.006590	0.003161	0.221043	0.001095	0.021680	0.012504	0.003404	0.034039
4-Apr-2033	0.086092	22.304300	35.312800	5.187720	77.056868	3.020520	0.032883	0.319721	0.076481	0.006581	0.003157	0.220745	0.001094	0.021651	0.012487	0.003399	0.033993
5-Apr-2033	0.086092	22.271300	35.260500	5.180030	76.942800	3.016040	0.032834	0.319247	0.076367	0.006572	0.003152	0.220418	0.001092	0.021619	0.012469	0.003394	0.033943
6-Apr-2033	0.086092	22.235000	35.203000	5.171580	76.817361	3.011130	0.032781	0.318727	0.076243	0.006561	0.003147	0.220059	0.001090	0.021584	0.012448	0.003389	0.033887
7-Apr-2033	0.086092	22.195400	35.140400	5.162390	76.680636	3.005780	0.032723	0.318160	0.076107	0.006549	0.003142	0.219668	0.001089	0.021545	0.012426	0.003383	0.033827
8-Apr-2033	0.086092	22.152100	35.071700	5.152300	76.530965	2.999900	0.032659	0.317539	0.075959	0.006537	0.003136	0.219238	0.001086	0.021503	0.012402	0.003376	0.033761
9-Apr-2033	0.086092	22.093200	34.978500	5.138600	76.327475	2.991930	0.032572	0.316694	0.075757	0.006519	0.003127	0.218655	0.001083	0.021446	0.012369	0.003367	0.033671
10-Apr-2033	0.086092	21.960800	34.769000	5.107830	75.870162	2.974010	0.032377	0.314798	0.075303	0.006480	0.003109	0.217346	0.001077	0.021318	0.012295	0.003347	0.033469
11-Apr-2033	0.086092	21.936000	34.729700	5.102060	75.784475	2.970650	0.032340	0.314442	0.075218	0.006473	0.003105	0.217100	0.001076	0.021294	0.012281	0.003343	0.033432
12-Apr-2033	0.086092	21.909200	34.687200	5.095810	75.691818	2.967010	0.032301	0.314057	0.075126	0.006465	0.003101	0.216835	0.001074	0.021268	0.012266	0.003339	0.033391
13-Apr-2033	0.086092	21.859100	34.607900	5.084160	75.518744	2.960230	0.032227	0.313339	0.074954	0.006450	0.003094	0.216339	0.001072	0.021219	0.012238	0.003331	0.033314
14-Apr-2033	0.086092	21.797600	34.510600	5.069870	75.306332	2.951910	0.032136	0.312458	0.074743	0.006432	0.003085	0.215730	0.001069	0.021159	0.012204	0.003322	0.033221
15-Apr-2033	0.086092	21.756900	34.446200	5.060400	75.165707	2.946390	0.032076	0.311875	0.074604	0.006420	0.003080	0.215328	0.001067	0.021120	0.012181	0.003316	0.033159
16-Apr-2033	0.086092	21.695500	34.348800	5.046100	74.953503	2.938070	0.031986	0.310993	0.074393	0.006402	0.003071	0.214719	0.001064	0.021060	0.012146	0.003307	0.033065
17-Apr-2033	0.086092	21.626100	34.239000	5.029970	74.713788	2.928680	0.031883	0.309999	0.074155	0.006381	0.003061	0.214033	0.001061	0.020993	0.012107	0.003296	0.032959
18-Apr-2033	0.086092	21.561700	34.137000	5.014980	74.491253	2.919950	0.031788	0.309076	0.073934	0.006362	0.003052	0.213395	0.001057	0.020930	0.012071	0.003286	0.032861
19-Apr-2033	0.086092	21.490100	34.023700	4.998340	74.243944	2.910260	0.031683	0.308050	0.073689	0.006341	0.003042	0.212687	0.001054	0.020861	0.012031	0.003275	0.032752
20-Apr-2033	0.086092	21.420400	33.913400	4.982130	74.003150	2.900820	0.031580	0.307051	0.073450	0.006321	0.003032	0.211997	0.001051	0.020793	0.011992	0.003265	0.032646
21-Apr-2033	0.086092	21.357300	33.813400	4.967440	73.785096	2.892270	0.031487	0.306145	0.073233	0.006302	0.003023	0.211372	0.001047	0.020732	0.011957	0.003255	0.032550
22-Apr-2033	0.086092	21.290500	33.707700	4.951910	73.554344	2.883230	0.031388	0.305189	0.073004	0.006282	0.003014	0.210711	0.001044	0.020667	0.011920	0.003245	0.032448
23-Apr-2033	0.086092	21.223400	33.601400	4.936300	73.322513	2.874140	0.031290	0.304226	0.072774	0.006262	0.003004	0.210047	0.001041	0.020602	0.011882	0.003235	0.032346
24-Apr-2033	0.086092	21.163500	33.506600	4.922380	73.115620	2.866030	0.031201	0.303368	0.072569	0.006245	0.002996	0.209454	0.001038	0.020544	0.011848	0.003225	0.032254
25-Apr-2033	0.086092	21.108200	33.419100	4.909520	72.924579	2.858540	0.031120	0.302576	0.072379	0.006229	0.002988	0.208907	0.001035	0.020490	0.011818	0.003217	0.032170
26-Apr-2033	0.086092	21.057500	33.338700	4.897710	72.749347	2.851670	0.031045	0.301848	0.072205	0.006214	0.002981	0.208405	0.001033	0.020441	0.011789	0.003209	0.032093
27-Apr-2033	0.086092	21.013100	33.268500	4.887390	72.595983	2.845660	0.030980	0.301212	0.072053	0.006200	0.002974	0.207966	0.001031	0.020398	0.011764	0.003203	0.032025
28-Apr-2033	0.086092	20.971500	33.202600	4.877710	72.452245	2.840020	0.030918	0.300616	0.071910	0.006188	0.002968	0.207554	0.001028	0.020357	0.011741	0.003196	0.031962
29-Apr-2033	0.086092	20.934800	33.144600	4.869180	72.325479	2.835060	0.030864	0.300090	0.071785	0.006177	0.002963	0.207191	0.001027	0.020322	0.011720	0.003191	0.031906
30-Apr-2033	0.086112	20.898900	33.087700	4.860840	72.201492	2.830200	0.030811	0.299576	0.071662	0.006167	0.002958	0.206836	0.001025	0.020287	0.011700	0.003185	0.031851
1-May-2033	0.086887	20.792900	32.919900	4.836180	71.835261	2.815850	0.030655	0.298056	0.071298	0.006135	0.002943	0.205787	0.001020	0.020184	0.011641	0.003169	0.031690
2-May-2033	0.091282	20.317100	32.166600	4.725520	70.191490	2.751410	0.029953	0.291236	0.069667	0.005995	0.002876	0.201078	0.000996	0.019722	0.011375	0.003096	0.030964
3-May-2033	0.095569	19.714300	31.212200	4.585310	68.108914	2.669770	0.029065	0.282595	0.067600	0.005817	0.002791	0.195112	0.000967	0.019137	0.011037	0.003005	0.030046
4-May-2033	0.100359	19.221900	30.432600	4.470770	66.407715	2.603090	0.028339	0.275536	0.065911	0.005672	0.002721	0.190238	0.000943	0.018659	0.010761	0.002930	0.029295
5-May-2033	0.104909	19.023700	30.118800	4.424680	65.723011	2.576250	0.028047	0.272695	0.065231	0.005613	0.002693	0.188277	0.000933	0.018467	0.010651	0.002899	0.028993
6-May-2033	0.111252	18.822200	29.799800	4.377810	65.026855	2.548960	0.027750	0.269807	0.064541	0.005554	0.002664	0.186282	0.000923	0.018271	0.010538	0.002869	0.028686
7-May-2033	0.117420	18.640100	29.511500	4.335460	64.397754	2.524300	0.027481	0.267197	0.063916	0.005500	0.002638	0.184480	0.000914	0.018094	0.010436	0.002841	0.028409
8-May-2033	0.123051	18.472000	29.245400	4.296360	63.816994	2.501540	0.027233	0.264787	0.063340	0.005451	0.002615	0.182816	0.000906	0.017931	0.010342	0.002815	0.028152
9-May-2033	0.128519	18.419600	29.162400	4.284170	63.635953	2.494440	0.027156	0.264036	0.063160	0.005435	0.002607	0.182298	0.000903	0.017880	0.010312	0.002807	0.028072
10-May-2033	0.140489	19.135300	30.294300	4.451010	66.110103	2.591160	0.028210	0.274278	0.065618	0.005647	0.002709	0.189429	0.000938	0.018576	0.010713	0.002916	0.029163
11-May-2033	0.147791	18.485200	29.265200	4.299780	63.864038	2.503140	0.027251	0.264960	0.063388	0.005455	0.002617	0.182991	0.000907	0.017945	0.010349	0.002817	0.028172
12-May-2033	0.155316	18.195300	28.807300	4.232010	62.861081	2.464070	0.026825	0.260821	0.062391	0.005369	0.002576	0.180078	0.000892	0.017662	0.010187	0.002773	0.027731
13-May-2033	0.177095	18.106600	28.666900	4.211380	62.554643	2.452060	0.026695	0.259550	0.062087	0.005343	0.002563	0.179200	0.000888	0.017576	0.010137	0.002760	0.027595
14-May-2033	0.180901	18.023400	28.535100	4.192010	62.267127	2.440780	0.026572	0.258356	0.061801	0.005318	0.002551	0.178376	0.000884	0.017495	0.010090	0.002747	0.027469
15-May-2033	0.190357	17.887900	28.320600	4.160510	61.799066	2.422440	0.026372	0.256414	0.061337	0.005278	0.002532	0.177036	0.000877	0.017364	0.010015	0.002726	0.027262
16-May-2033	0.198086	17.776600	28.144400	4.134630	61.414577	2.407370	0.026208	0.254819	0.060956	0.005245	0.002516	0.175934	0.000872	0.017256	0.009952	0.002709	0.027093
17-May-2033	0.229655	17.654700	27.951400	4.106280	60.993447	2.390860	0.026028	0.253071	0.060538	0.005209	0.002499	0.174728	0.000866	0.017138	0.009884	0.002691	0.026907
18-May-2033	0.229226	17.536000	27.763500	4.078670	60.583355	2.374780	0.025853	0.251369	0.060131	0.005174	0.002482	0.173553	0.000860	0.017022	0.009818	0.002673	0.026726

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19-May-2033	0.229878	17.353000	27.473700	4.036110	59.951142	2.350000	0.025583	0.248746	0.059503	0.005120	0.002456	0.171742	0.000851	0.016845	0.009715	0.002645	0.026447
20-May-2033	0.235718	16.990500	26.899800	3.951800	58.698791	2.300900	0.025049	0.243549	0.058261	0.005013	0.002405	0.168155	0.000833	0.016493	0.009512	0.002589	0.025894
21-May-2033	0.245876	16.589000	26.264100	3.858430	57.311748	2.246520	0.024457	0.237793	0.056884	0.004895	0.002348	0.164182	0.000814	0.016103	0.009287	0.002528	0.025282
22-May-2033	0.257569	16.315200	25.830500	3.794740	56.365794	2.209430	0.024053	0.233867	0.055945	0.004814	0.002309	0.161472	0.000800	0.015837	0.009134	0.002487	0.024865
23-May-2033	0.276465	15.955800	25.261500	3.711180	55.124272	2.160750	0.023523	0.228715	0.054714	0.004708	0.002259	0.157918	0.000782	0.015489	0.008933	0.002432	0.024317
24-May-2033	0.287913	15.548900	24.617200	3.616560	53.718597	2.105630	0.022923	0.222881	0.053319	0.004588	0.002201	0.153893	0.000763	0.015094	0.008705	0.002370	0.023697
25-May-2033	0.302659	15.157400	23.997200	3.525540	52.366202	2.052590	0.022346	0.217267	0.051977	0.004473	0.002146	0.150023	0.000743	0.014714	0.008486	0.002310	0.023100
26-May-2033	0.318925	14.864600	23.533600	3.457490	51.354850	2.012920	0.021914	0.213068	0.050974	0.004386	0.002104	0.147129	0.000729	0.014430	0.008322	0.002265	0.022654
27-May-2033	0.339771	14.570200	23.067300	3.389050	50.337897	1.973020	0.021480	0.208845	0.049966	0.004299	0.002063	0.144219	0.000715	0.014144	0.008157	0.002221	0.022205
28-May-2033	0.371300	14.456200	22.886800	3.362550	49.944112	1.957580	0.021312	0.207211	0.049575	0.004266	0.002047	0.143092	0.000709	0.014033	0.008093	0.002203	0.022032
29-May-2033	0.411776	14.286800	22.618000	3.323310	49.359530	1.934530	0.021061	0.204773	0.048997	0.004216	0.002023	0.141435	0.000701	0.013869	0.007998	0.002177	0.021773
30-May-2033	0.459789	14.163500	22.423200	3.294500	48.933011	1.917910	0.020880	0.203013	0.048572	0.004179	0.002005	0.140199	0.000695	0.013749	0.007929	0.002159	0.021585
31-May-2033	0.488634	14.150900	22.403100	3.291630	48.889730	1.916170	0.020861	0.202829	0.048530	0.004176	0.002003	0.140080	0.000694	0.013737	0.007922	0.002157	0.021566
1-Jun-2033	0.516955	14.035900	22.220300	3.265120	48.493406	1.900450	0.020690	0.201168	0.048141	0.004142	0.001988	0.138966	0.000688	0.013627	0.007858	0.002139	0.021391
2-Jun-2033	0.556517	13.931300	22.054100	3.240970	48.132771	1.886180	0.020535	0.199658	0.047786	0.004111	0.001973	0.137949	0.000683	0.013526	0.007799	0.002123	0.021231
3-Jun-2033	0.590429	13.838600	21.906800	3.219540	47.813050	1.873530	0.020398	0.198321	0.047472	0.004084	0.001960	0.137047	0.000679	0.013436	0.007747	0.002109	0.021089
4-Jun-2033	0.771833	13.663300	21.628500	3.179010	47.208423	1.849640	0.020138	0.195795	0.046880	0.004032	0.001936	0.135335	0.000670	0.013267	0.007649	0.002082	0.020822
5-Jun-2033	0.881748	13.483600	21.342200	3.137750	46.589804	1.824960	0.019871	0.193191	0.046288	0.003978	0.001911	0.133599	0.000661	0.013094	0.007548	0.002055	0.020549
6-Jun-2033	1.019993	13.298900	21.044500	3.096400	45.958329	1.798890	0.019590	0.190452	0.045727	0.003923	0.001888	0.131898	0.000652	0.012922	0.007444	0.002027	0.020270
7-Jun-2033	1.120617	13.131800	20.774000	3.059270	45.388178	1.775100	0.019335	0.187964	0.045272	0.003872	0.001868	0.130382	0.000643	0.012766	0.007349	0.002002	0.020017
8-Jun-2033	1.288096	12.971900	20.511900	3.024720	44.846631	1.751940	0.019087	0.185537	0.044817	0.003822	0.001850	0.128995	0.000635	0.012622	0.007258	0.001978	0.019777
9-Jun-2033	1.509420	12.761800	20.170100	2.978520	44.131760	1.721460	0.018764	0.182385	0.044227	0.003758	0.001825	0.127124	0.000624	0.012430	0.007139	0.001946	0.019461
10-Jun-2033	1.717735	12.553500	19.828300	2.933560	43.426490	1.690840	0.018438	0.179192	0.043721	0.003694	0.001804	0.125359	0.000613	0.012242	0.007021	0.001915	0.019147
11-Jun-2033	1.802262	12.410100	19.588300	2.903940	42.946445	1.668650	0.018202	0.176864	0.043330	0.003648	0.001789	0.124208	0.000606	0.012119	0.006939	0.001893	0.018929
12-Jun-2033	1.864186	12.210300	19.255200	2.862490	42.276853	1.638690	0.017887	0.173777	0.042900	0.003586	0.001771	0.122598	0.000595	0.011946	0.006824	0.001863	0.018628
13-Jun-2033	1.932452	11.967800	18.852600	2.810990	41.459253	1.601740	0.017497	0.169937	0.042366	0.003511	0.001749	0.120710	0.000582	0.011734	0.006686	0.001826	0.018265
14-Jun-2033	1.978953	11.733600	18.460400	2.762560	40.675021	1.565840	0.017117	0.166198	0.041861	0.003437	0.001727	0.118905	0.000569	0.011533	0.006552	0.001791	0.017914
15-Jun-2033	2.025347	11.500500	18.069200	2.716990	39.905313	1.529660	0.016738	0.162469	0.041427	0.003364	0.001708	0.117357	0.000557	0.011345	0.006418	0.001756	0.017564
16-Jun-2033	2.080280	11.320800	17.765000	2.678370	39.297565	1.501180	0.016439	0.159516	0.041117	0.003306	0.001694	0.116045	0.000547	0.011184	0.006314	0.001729	0.017293
17-Jun-2033	2.151037	11.115700	17.411700	2.638080	38.619516	1.467910	0.016094	0.156090	0.040806	0.003243	0.001680	0.114809	0.000536	0.011024	0.006196	0.001699	0.016988
18-Jun-2033	2.251686	10.907700	17.051900	2.602030	37.951686	1.433690	0.015738	0.152558	0.040518	0.003178	0.001667	0.113673	0.000524	0.010877	0.006076	0.001668	0.016677
19-Jun-2033	2.406339	10.747000	16.773600	2.570280	37.419672	1.406950	0.015461	0.149809	0.040309	0.003126	0.001657	0.112742	0.000515	0.010750	0.005982	0.001643	0.016435
20-Jun-2033	2.592644	10.615900	16.548700	2.540900	36.971329	1.385940	0.015242	0.147639	0.040083	0.003085	0.001647	0.111818	0.000507	0.010627	0.005907	0.001624	0.016241
21-Jun-2033	2.766644	10.473100	16.300300	2.513590	36.502294	1.362150	0.014995	0.145191	0.039827	0.003040	0.001636	0.110835	0.000499	0.010515	0.005824	0.001603	0.016027
22-Jun-2033	2.935361	10.293700	15.987200	2.479690	35.914732	1.332010	0.014684	0.142095	0.039542	0.002982	0.001624	0.109839	0.000489	0.010377	0.005720	0.001576	0.015758
23-Jun-2033	3.093044	10.144200	15.724700	2.453420	35.433251	1.307020	0.014425	0.139531	0.039271	0.002934	0.001613	0.108854	0.000480	0.010271	0.005632	0.001553	0.015530
24-Jun-2033	3.218624	9.983780	15.448000	2.420520	34.897200	1.280370	0.014150	0.136803	0.039001	0.002884	0.001601	0.107901	0.000471	0.010138	0.005540	0.001529	0.015292
25-Jun-2033	3.366810	9.814720	15.147600	2.389600	34.347729	1.251640	0.013853	0.133858	0.038873	0.002831	0.001589	0.106961	0.000462	0.010014	0.005441	0.001504	0.015037
26-Jun-2033	3.530998	9.615060	14.807800	2.351110	33.690676	1.219410	0.013520	0.130557	0.038768	0.002770	0.001576	0.105944	0.000451	0.009860	0.005327	0.001474	0.014740
27-Jun-2033	3.713576	9.476530	14.560600	2.324070	33.233416	1.195250	0.013272	0.128085	0.038319	0.002727	0.001567	0.105145	0.000442	0.009751	0.005246	0.001453	0.014533
28-Jun-2033	3.879169	9.322700	14.300200	2.295350	32.731033	1.171070	0.013021	0.125613	0.038110	0.002678	0.001559	0.104352	0.000434	0.009636	0.005158	0.001430	0.014304
29-Jun-2033	4.082386	9.171660	14.035200	2.264290	32.225981	1.145620	0.012759	0.123015	0.037890	0.002632	0.001550	0.103528	0.000425	0.009509	0.005070	0.001408	0.014078
30-Jun-2033	6.107997	7.640290	11.357300	1.972080	27.198830	0.889209	0.010115	0.096777	0.035203	0.002163	0.001447	0.094682	0.000338	0.008342	0.004184	0.001178	0.011777
1-Jul-2033	7.709359	7.318100	10.788700	1.906540	26.124427	0.835812	0.009566	0.091341	0.034837	0.002081	0.001424	0.094468	0.000319	0.008116	0.004003	0.001130	0.011295
2-Jul-2033	8.456234	7.299930	10.746200	1.899620	26.050560	0.832255	0.009530	0.090990	0.034974	0.002091	0.001421	0.094343	0.000318	0.008134	0.003999	0.001127	0.011267
3-Jul-2033	9.435935	7.401510	10.926300	1.913210	26.360169	0.850770	0.009716	0.092849	0.035168	0.002132	0.001423	0.094811	0.000324	0.008225	0.004063	0.001142	0.011419
4-Jul-2033	10.421557	7.275700	10.703800	1.892870	25.962262	0.828753	0.009491	0.090606	0.034860	0.002092	0.001417	0.094178	0.000317	0.008119	0.003987	0.001123	0.011228
5-Jul-2033	10.841536	7.364960	10.864400	1.906650	26.241890	0.844822	0.009653	0.092222	0.035007	0.002121	0.001420	0.094551	0.000322	0.008190	0.004041	0.001136	0.011362
6-Jul-2033	11.443394	7.360370	10.857100	1.906620	26.230305	0.844037	0.009645	0.092141	0.034953	0.002118	0.001420	0.094496	0.000322	0.008181	0.004038	0.001135	0.011354
7-Jul-2033	10.698491	7.345340	10.831700	1.905000	26.186104	0.841428	0.009618	0.091870	0.034875	0.002112	0.001419	0.094347	0.000321	0.008163	0.004027	0.001133	0.011331
8-Jul-2033	10.401015	7.436910	10.999800	1.919440	26.474218	0.858234	0.009785	0.093544	0.034978	0.002139	0.001421	0.094554	0.000327	0.008228	0.004082	0.001147	0.011470
9-Jul-2033	10.333151	7.474820	11.068000	1.925990	26.595852	0.864999	0.009853	0.094226	0.035007	0.002151	0.001422	0.094725	0.000329	0.008255	0.004104	0.001153	0.011525

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Jul-2033	10.571994	7.606500	11.307600	1.946330	27.008417	0.889011	0.010094	0.096629	0.035197	0.002192	0.001425	0.095151	0.000337	0.008354	0.004184	0.001172	0.011725
11-Jul-2033	11.126953	7.619120	11.329100	1.949150	27.051542	0.891069	0.010115	0.096841	0.035193	0.002197	0.001426	0.095279	0.000337	0.008362	0.004191	0.001174	0.011742
12-Jul-2033	12.176085	7.728600	11.528600	1.966210	27.395167	0.911020	0.010315	0.098840	0.035343	0.002230	0.001429	0.095593	0.000344	0.008443	0.004257	0.001191	0.011908
13-Jul-2033	12.477513	7.787370	11.638900	1.975920	27.581901	0.922064	0.010425	0.099941	0.035369	0.002246	0.001430	0.095677	0.000348	0.008479	0.004292	0.001200	0.011997
14-Jul-2033	12.787187	7.788300	11.639100	1.976630	27.587147	0.922006	0.010424	0.099929	0.035341	0.002247	0.001430	0.095709	0.000348	0.008479	0.004292	0.001200	0.011997
15-Jul-2033	12.731230	7.806410	11.668300	1.980400	27.647893	0.924842	0.010455	0.100230	0.035359	0.002257	0.001431	0.096001	0.000349	0.008495	0.004303	0.001202	0.012021
16-Jul-2033	13.267285	7.895630	11.830500	1.994710	27.929604	0.941028	0.010617	0.101848	0.035466	0.002285	0.001434	0.096290	0.000354	0.008560	0.004356	0.001216	0.012155
17-Jul-2033	14.394457	8.066020	12.141200	2.020940	28.463083	0.972164	0.010928	0.104960	0.035709	0.002336	0.001437	0.096786	0.000365	0.008687	0.004459	0.001241	0.012413
18-Jul-2033	14.545198	8.003040	12.026400	2.012250	28.270036	0.960564	0.010812	0.103803	0.035576	0.002317	0.001436	0.096615	0.000361	0.008635	0.004420	0.001232	0.012317
19-Jul-2033	14.530421	8.103150	12.208700	2.028040	28.585034	0.978788	0.010995	0.105626	0.035705	0.002348	0.001439	0.096927	0.000367	0.008709	0.004480	0.001247	0.012468
20-Jul-2033	14.678215	8.075680	12.160100	2.025000	28.503923	0.973788	0.010944	0.105117	0.035596	0.002338	0.001438	0.096776	0.000365	0.008680	0.004462	0.001242	0.012425
21-Jul-2033	15.382264	8.328260	12.621000	2.063780	29.294311	1.020040	0.011406	0.109740	0.035951	0.002415	0.001444	0.097507	0.000381	0.008868	0.004615	0.001281	0.012807
22-Jul-2033	16.099770	8.344540	12.647900	2.067680	29.351023	1.022640	0.011434	0.110012	0.035936	0.002424	0.001445	0.097848	0.000382	0.008878	0.004624	0.001283	0.012827
23-Jul-2033	16.466902	8.331660	12.620800	2.066820	29.315320	1.019820	0.011408	0.109746	0.035903	0.002425	0.001445	0.097970	0.000381	0.008870	0.004616	0.001281	0.012806
24-Jul-2033	16.482885	8.293440	12.551200	2.061930	29.199747	1.012770	0.011337	0.109040	0.035790	0.002413	0.001445	0.097868	0.000378	0.008836	0.004591	0.001275	0.012746
25-Jul-2033	15.567919	8.371470	12.694900	2.073990	29.444251	1.027160	0.011481	0.110474	0.035882	0.002436	0.001446	0.098013	0.000383	0.008892	0.004638	0.001286	0.012865
26-Jul-2033	14.916940	8.380060	12.710900	2.075790	29.473113	1.028740	0.011496	0.110632	0.035864	0.002438	0.001446	0.098039	0.000384	0.008896	0.004643	0.001288	0.012877
27-Jul-2033	14.540502	8.468200	12.871500	2.089870	29.751180	1.044780	0.011657	0.112234	0.035966	0.002465	0.001449	0.098303	0.000389	0.008960	0.004696	0.001301	0.013010
28-Jul-2033	13.867800	8.340650	12.640200	2.071700	29.357864	1.021420	0.011423	0.109893	0.035705	0.002425	0.001446	0.097873	0.000381	0.008855	0.004617	0.001282	0.012815
29-Jul-2033	12.955049	8.414460	12.774100	2.083580	29.591089	1.034840	0.011558	0.111238	0.035782	0.002449	0.001448	0.098172	0.000386	0.008909	0.004661	0.001293	0.012925
30-Jul-2033	12.632166	8.494210	12.919200	2.096430	29.843141	1.049360	0.011703	0.112691	0.035864	0.002474	0.001450	0.098448	0.000391	0.008966	0.004709	0.001304	0.013045
31-Jul-2033	11.826860	8.539960	13.002800	2.103940	29.988305	1.057740	0.011787	0.113533	0.035904	0.002489	0.001451	0.098593	0.000393	0.008998	0.004736	0.001311	0.013113
1-Aug-2033	11.969970	8.647080	13.198000	2.121030	30.326160	1.077260	0.011982	0.115483	0.036021	0.002522	0.001453	0.098932	0.000400	0.009075	0.004800	0.001327	0.013274
2-Aug-2033	12.508032	8.714250	13.321700	2.131900	30.538646	1.089640	0.012106	0.116715	0.036069	0.002542	0.001455	0.099087	0.000404	0.009120	0.004840	0.001337	0.013375
3-Aug-2033	13.201657	8.871780	13.608300	2.156390	31.032849	1.118410	0.012393	0.119595	0.036275	0.002592	0.001458	0.099630	0.000414	0.009238	0.004936	0.001361	0.013612
4-Aug-2033	13.961387	8.994170	13.830700	2.175670	31.417852	1.140700	0.012616	0.121824	0.036426	0.002631	0.001461	0.100062	0.000421	0.009328	0.005009	0.001380	0.013795
5-Aug-2033	14.395649	9.205930	14.217400	2.209150	32.084487	1.179450	0.013003	0.125694	0.036673	0.002696	0.001465	0.100703	0.000434	0.009481	0.005137	0.001411	0.014114
6-Aug-2033	15.328232	9.116550	14.055400	2.197930	31.815101	1.162990	0.012838	0.124035	0.036432	0.002670	0.001464	0.100466	0.000429	0.009399	0.005079	0.001397	0.013974
7-Aug-2033	15.463606	9.327870	14.442300	2.230300	32.476067	1.201810	0.013224	0.127903	0.036704	0.002732	0.001468	0.100993	0.000442	0.009555	0.005207	0.001429	0.014293
8-Aug-2033	15.527417	9.132750	14.086900	2.201140	31.868771	1.166070	0.012867	0.124327	0.036388	0.002672	0.001464	0.100405	0.000430	0.009405	0.005088	0.001400	0.013997
9-Aug-2033	15.962985	9.154470	14.130700	2.205110	31.939355	1.170360	0.012908	0.124740	0.036347	0.002674	0.001464	0.100229	0.000431	0.009411	0.005100	0.001403	0.014032
10-Aug-2033	15.937966	9.265360	14.334200	2.222900	32.289506	1.190700	0.013111	0.126764	0.036458	0.002707	0.001467	0.100504	0.000438	0.009488	0.005166	0.001420	0.014200
11-Aug-2033	16.391226	9.219460	14.250900	2.216430	32.148250	1.182310	0.013026	0.125916	0.036343	0.002694	0.001466	0.100372	0.000435	0.009450	0.005137	0.001413	0.014128
12-Aug-2033	15.103672	8.926460	13.715600	2.174340	31.243303	1.128380	0.012487	0.120517	0.035789	0.002607	0.001460	0.099667	0.000417	0.009218	0.004957	0.001368	0.013678
13-Aug-2033	15.762953	8.996020	13.843900	2.185360	31.462374	1.141210	0.012615	0.121791	0.035854	0.002627	0.001461	0.099798	0.000422	0.009266	0.004998	0.001378	0.013783
14-Aug-2033	15.803162	9.131510	14.090400	2.207180	31.890548	1.165860	0.012861	0.124252	0.036009	0.002671	0.001465	0.100349	0.000430	0.009364	0.005080	0.001399	0.013986
15-Aug-2033	15.762643	9.385110	14.556300	2.245940	32.683401	1.212580	0.013326	0.128912	0.036348	0.002743	0.001470	0.100802	0.000445	0.009549	0.005233	0.001437	0.014373
16-Aug-2033	15.736898	9.311280	14.421900	2.236140	32.458691	1.198980	0.013190	0.127542	0.036149	0.002722	0.001468	0.100632	0.000441	0.009485	0.005186	0.001426	0.014258
17-Aug-2033	15.570343	9.199290	14.216900	2.219870	32.112052	1.178390	0.012983	0.125474	0.035926	0.002690	0.001466	0.100409	0.000434	0.009397	0.005118	0.001409	0.014085
18-Aug-2033	15.608857	9.213440	14.241700	2.223820	32.163650	1.180760	0.013006	0.125700	0.035859	0.002698	0.001467	0.100634	0.000435	0.009401	0.005125	0.001410	0.014102
19-Aug-2033	15.364719	9.192050	14.203200	2.221490	32.100645	1.176820	0.012966	0.125294	0.035767	0.002692	0.001466	0.100541	0.000434	0.009379	0.005110	0.001407	0.014068
20-Aug-2033	14.459319	9.338870	14.471900	2.244250	32.560980	1.203780	0.013235	0.127982	0.035951	0.002736	0.001469	0.100937	0.000443	0.009486	0.005199	0.001429	0.014290
21-Aug-2033	14.028398	9.429320	14.636600	2.258600	32.845927	1.220260	0.013399	0.129625	0.036055	0.002765	0.001471	0.101239	0.000448	0.009552	0.005254	0.001443	0.014426
22-Aug-2033	13.952413	9.471390	14.713600	2.265240	32.978319	1.227960	0.013476	0.130392	0.036105	0.002777	0.001472	0.101348	0.000451	0.009582	0.005279	0.001449	0.014489
23-Aug-2033	13.862566	9.632540	15.009900	2.290560	33.484978	1.257610	0.013771	0.133349	0.036295	0.002824	0.001475	0.101696	0.000461	0.009696	0.005375	0.001473	0.014734
24-Aug-2033	13.621891	9.440110	14.662700	2.263270	32.892101	1.222550	0.013418	0.129817	0.035862	0.002762	0.001471	0.100960	0.000449	0.009535	0.005256	0.001444	0.014440
25-Aug-2033	13.642740	9.383410	14.558500	2.255630	32.719059	1.212050	0.013313	0.128754	0.035721	0.002747	0.001470	0.100898	0.000446	0.009487	0.005220	0.001435	0.014350
26-Aug-2033	13.204434	9.489010	14.751300	2.272220	33.051060	1.231370	0.013505	0.130678	0.035843	0.002780	0.001472	0.101221	0.000452	0.009564	0.005284	0.001451	0.014508
27-Aug-2033	12.452704	9.435010	14.655200	2.265240	32.887478	1.221600	0.013406	0.129686	0.035680	0.002761	0.001471	0.100957	0.000449	0.009513	0.005249	0.001443	0.014426
28-Aug-2033	11.369553	9.488560	14.753100	2.274160	33.057925	1.231360	0.013503	0.130654	0.035717	0.002778	0.001473	0.101131	0.000452	0.009549	0.005281	0.001451	0.014506
29-Aug-2033	11.086536	9.594390	14.946800	2.290910	33.391159	1.250760	0.013696	0.132586	0.035837	0.002810	0.001475	0.101423	0.000459	0.009625	0.005344	0.001467	0.014665
30-Aug-2033	10.639230	9.673970	15.092600	2.303770	33.642828	1.265290	0.013841	0.134034	0.035916	0.002834	0.001477	0.101623	0.000463	0.009680	0.005392	0.001479	0.014785

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Aug-2033	9.856193	9.662900	15.070700	2.303580	33.614404	1.263020	0.013817	0.133792	0.035816	0.002835	0.001477	0.101787	0.000463	0.009667	0.005384	0.001476	0.014764
1-Sep-2033	8.743216	9.679120	15.099000	2.307160	33.669648	1.265870	0.013844	0.134062	0.035764	0.002844	0.001477	0.102020	0.000464	0.009675	0.005393	0.001478	0.014784
2-Sep-2033	7.938249	9.669680	15.082700	2.306160	33.641958	1.264220	0.013827	0.133890	0.035717	0.002841	0.001477	0.101972	0.000463	0.009664	0.005387	0.001477	0.014769
3-Sep-2033	8.188165	9.729670	15.193400	2.315450	33.830009	1.275350	0.013938	0.134997	0.035778	0.002859	0.001478	0.102096	0.000467	0.009706	0.005423	0.001486	0.014860
4-Sep-2033	7.823529	9.903630	15.511400	2.342090	34.374091	1.307280	0.014256	0.138183	0.036012	0.002912	0.001481	0.102589	0.000477	0.009835	0.005528	0.001512	0.015123
5-Sep-2033	7.744180	9.819940	15.359200	2.329650	34.113889	1.292010	0.014103	0.136654	0.035864	0.002887	0.001479	0.102360	0.000472	0.009770	0.005477	0.001499	0.014995
6-Sep-2033	7.894157	9.798240	15.320800	2.327220	34.049697	1.288250	0.014064	0.136259	0.035745	0.002883	0.001478	0.102375	0.000471	0.009746	0.005463	0.001496	0.014957
7-Sep-2033	7.710516	10.032900	15.749600	2.362810	34.782203	1.331340	0.014494	0.140563	0.036079	0.002954	0.001483	0.103005	0.000485	0.009922	0.005605	0.001531	0.015314
8-Sep-2033	8.093260	10.231500	16.113000	2.393180	35.403171	1.367840	0.014858	0.144205	0.036344	0.003014	0.001487	0.103536	0.000498	0.010068	0.005726	0.001561	0.015613
9-Sep-2033	8.155406	10.327000	16.287400	2.407940	35.702416	1.385370	0.015032	0.145952	0.036463	0.003045	0.001488	0.103843	0.000503	0.010139	0.005784	0.001576	0.015757
10-Sep-2033	8.464933	10.513500	16.628300	2.436320	36.284975	1.419530	0.015374	0.149372	0.036758	0.003099	0.001493	0.104308	0.000515	0.010280	0.005897	0.001604	0.016042
11-Sep-2033	9.450243	10.430800	16.479000	2.423770	36.026792	1.404660	0.015224	0.147875	0.036585	0.003075	0.001490	0.104047	0.000510	0.010213	0.005846	0.001592	0.015915
12-Sep-2033	10.156494	10.399300	16.422400	2.419530	35.930677	1.399030	0.015167	0.147301	0.036489	0.003067	0.001489	0.103991	0.000508	0.010184	0.005827	0.001587	0.015865
13-Sep-2033	9.144816	10.152100	15.974000	2.381870	35.158334	1.354060	0.014717	0.142801	0.036088	0.002990	0.001483	0.103147	0.000493	0.009993	0.005676	0.001549	0.015491
14-Sep-2033	7.752949	10.214600	16.088500	2.391570	35.354341	1.365590	0.014832	0.143949	0.036159	0.003009	0.001484	0.103336	0.000497	0.010039	0.005714	0.001558	0.015585
15-Sep-2033	6.617887	10.262400	16.177000	2.398990	35.504254	1.374480	0.014920	0.144833	0.036204	0.003023	0.001485	0.103421	0.000500	0.010072	0.005742	0.001566	0.015657
16-Sep-2033	6.763983	10.293000	16.234500	2.403900	35.600881	1.380320	0.014978	0.145408	0.036207	0.003033	0.001485	0.103480	0.000502	0.010090	0.005761	0.001570	0.015702
17-Sep-2033	6.157578	10.360100	16.356100	2.414580	35.812410	1.392620	0.015100	0.146629	0.036259	0.003056	0.001486	0.103804	0.000506	0.010139	0.005801	0.001580	0.015800
18-Sep-2033	6.046493	10.440100	16.502200	2.427030	36.063439	1.407310	0.015246	0.148093	0.036352	0.003082	0.001488	0.104088	0.000511	0.010197	0.005850	0.001592	0.015919
19-Sep-2033	5.777167	10.590400	16.777500	2.449970	36.533205	1.435010	0.015522	0.150855	0.036547	0.003128	0.001491	0.104477	0.000520	0.010308	0.005941	0.001615	0.016146
20-Sep-2033	5.663322	10.699800	16.977900	2.466890	36.876054	1.455200	0.015723	0.152865	0.036669	0.003162	0.001492	0.104808	0.000527	0.010387	0.006007	0.001631	0.016310
21-Sep-2033	5.576137	10.660000	16.905800	2.460870	36.751883	1.447970	0.015651	0.152141	0.036602	0.003150	0.001491	0.104676	0.000524	0.010356	0.005983	0.001625	0.016250
22-Sep-2033	5.174205	11.036100	17.592900	2.518020	37.926348	1.516930	0.016339	0.159030	0.037156	0.003263	0.001499	0.105691	0.000547	0.010638	0.006211	0.001682	0.016821
23-Sep-2033	4.980011	11.095800	17.702400	2.527190	38.113181	1.527930	0.016449	0.160127	0.037234	0.003281	0.001500	0.105840	0.000551	0.010682	0.006247	0.001691	0.016911
24-Sep-2033	4.983393	10.856700	17.266100	2.490960	37.366953	1.483930	0.016011	0.155746	0.036928	0.003204	0.001496	0.105045	0.000536	0.010504	0.006102	0.001655	0.016553
25-Sep-2033	5.096429	11.134000	17.775600	2.533030	38.232616	1.535320	0.016521	0.160855	0.037242	0.003289	0.001500	0.105769	0.000553	0.010704	0.006270	0.001697	0.016970
26-Sep-2033	4.837031	10.913000	17.376000	2.499650	37.543320	1.495470	0.016121	0.156857	0.036821	0.003224	0.001494	0.105098	0.000540	0.010528	0.006135	0.001663	0.016632
27-Sep-2033	4.085181	10.913700	17.376700	2.499910	37.546138	1.495520	0.016122	0.156863	0.036816	0.003224	0.001494	0.105127	0.000540	0.010529	0.006135	0.001663	0.016633
28-Sep-2033	3.526703	10.872900	17.302700	2.493900	37.419512	1.488020	0.016047	0.156113	0.036754	0.003211	0.001494	0.104960	0.000538	0.010497	0.006110	0.001657	0.016571
29-Sep-2033	3.089759	11.010000	17.553800	2.514710	37.847546	1.513270	0.016299	0.158632	0.036959	0.003252	0.001497	0.105322	0.000546	0.010598	0.006193	0.001678	0.016779
30-Sep-2033	2.966078	11.281300	18.048400	2.556070	38.695302	1.562850	0.016794	0.163589	0.037354	0.003334	0.001502	0.106098	0.000562	0.010804	0.006358	0.001719	0.017190
1-Oct-2033	2.863399	11.158000	17.822100	2.537610	38.311404	1.539980	0.016567	0.161317	0.037212	0.003295	0.001501	0.105742	0.000555	0.010714	0.006283	0.001701	0.017005
2-Oct-2033	2.674124	10.980700	17.500300	2.510510	37.757088	1.507770	0.016245	0.158091	0.036920	0.003241	0.001496	0.105187	0.000544	0.010577	0.006175	0.001674	0.016736
3-Oct-2033	2.529709	10.862200	17.286400	2.492260	37.386040	1.486480	0.016031	0.155951	0.036695	0.003206	0.001493	0.104804	0.000537	0.010483	0.006103	0.001655	0.016555
4-Oct-2033	2.551848	10.804200	17.179400	2.483360	37.204564	1.475680	0.015924	0.154878	0.036652	0.003188	0.001492	0.104660	0.000533	0.010443	0.006068	0.001647	0.016468
5-Oct-2033	2.728247	10.757500	17.095300	2.476120	37.058140	1.467450	0.015840	0.154045	0.036559	0.003176	0.001491	0.104572	0.000531	0.010406	0.006040	0.001639	0.016395
6-Oct-2033	2.242961	10.704200	16.999400	2.467620	36.890047	1.458040	0.015745	0.153098	0.036416	0.003162	0.001488	0.104467	0.000528	0.010362	0.006008	0.001631	0.016313
7-Oct-2033	1.675521	10.674800	16.945900	2.463110	36.798063	1.452810	0.015692	0.152571	0.036365	0.003155	0.001487	0.104419	0.000526	0.010339	0.005990	0.001627	0.016266
8-Oct-2033	1.400648	10.656800	16.912700	2.460250	36.741339	1.449470	0.015659	0.152240	0.036339	0.003150	0.001487	0.104369	0.000525	0.010327	0.005979	0.001624	0.016240
9-Oct-2033	0.949071	10.625300	16.856700	2.454650	36.639623	1.444010	0.015604	0.151694	0.036309	0.003140	0.001486	0.104333	0.000523	0.010304	0.005961	0.001619	0.016193
10-Oct-2033	0.139484	10.610700	16.829200	2.452760	36.595384	1.441300	0.015577	0.151420	0.036271	0.003138	0.001485	0.104289	0.000522	0.010292	0.005952	0.001617	0.016169
11-Oct-2033	0.023969	10.573700	16.761400	2.446810	36.478492	1.434530	0.015510	0.150748	0.036224	0.003127	0.001484	0.104201	0.000520	0.010266	0.005930	0.001611	0.016113
12-Oct-2033	0.115244	10.552000	16.721700	2.443180	36.409359	1.430550	0.015470	0.150354	0.036207	0.003119	0.001483	0.104096	0.000518	0.010252	0.005917	0.001608	0.016081
13-Oct-2033	0.078967	10.558100	16.733600	2.443930	36.427679	1.431780	0.015482	0.150475	0.036205	0.003121	0.001483	0.104082	0.000519	0.010255	0.005921	0.001609	0.016090
14-Oct-2033	0.081288	10.548200	16.715700	2.442330	36.396370	1.430050	0.015465	0.150300	0.036200	0.003118	0.001483	0.104074	0.000518	0.010248	0.005915	0.001607	0.016075
15-Oct-2033	0.080883	10.547000	16.713700	2.442070	36.392303	1.429870	0.015463	0.150282	0.036200	0.003118	0.001483	0.104067	0.000518	0.010247	0.005914	0.001607	0.016073
16-Oct-2033	0.080499	10.546400	16.712600	2.442030	36.390640	1.429730	0.015462	0.150269	0.036200	0.003118	0.001483	0.104141	0.000518	0.010247	0.005914	0.001607	0.016072
17-Oct-2033	0.080013	10.650500	16.874400	2.466940	36.753157	1.443240	0.015610	0.151703	0.036577	0.003148	0.001499	0.105205	0.000523	0.010351	0.005972	0.001623	0.016232
18-Oct-2033	0.079623	10.715800	16.978300	2.482020	36.978311	1.452190	0.015706	0.152640	0.036787	0.003168	0.001511	0.106529	0.000526	0.010414	0.006008	0.001633	0.016331
19-Oct-2033	0.082835	10.776800	17.075500	2.496190	37.188980	1.460610	0.015797	0.153520	0.036965	0.003187	0.001516	0.106751	0.000529	0.010471	0.006042	0.001642	0.016422
20-Oct-2033	0.085156	10.835000	17.167300	2.509710	37.389981	1.468420	0.015881	0.154342	0.037173	0.003204	0.001524	0.107022	0.000532	0.010528	0.006075	0.001651	0.016511
21-Oct-2033	0.085151	10.880700	17.238900	2.520500	37.548527	1.474450	0.015947	0.154980	0.037347	0.003217	0.001531	0.107484	0.000534	0.010574	0.006101	0.001658	0.016581

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
22-Oct-2033	0.085409	10.934600	17.323400	2.533190	37.735373	1.481570	0.016025	0.155733	0.037542	0.003233	0.001539	0.108036	0.000537	0.010628	0.006131	0.001666	0.016663
23-Oct-2033	0.086256	10.984800	17.402400	2.544990	37.909314	1.488280	0.016098	0.156440	0.037720	0.003248	0.001546	0.108548	0.000539	0.010677	0.006159	0.001674	0.016740
24-Oct-2033	0.088417	11.003900	17.431000	2.549960	37.977474	1.490560	0.016123	0.156686	0.037792	0.003254	0.001550	0.108837	0.000540	0.010697	0.006169	0.001677	0.016769
25-Oct-2033	0.089191	11.017300	17.451200	2.553300	38.024688	1.492190	0.016142	0.156862	0.037849	0.003258	0.001552	0.108959	0.000541	0.010711	0.006176	0.001679	0.016789
26-Oct-2033	0.087599	11.045400	17.495700	2.559810	38.121661	1.495980	0.016183	0.157261	0.037950	0.003266	0.001556	0.109478	0.000542	0.010739	0.006192	0.001683	0.016832
27-Oct-2033	0.086805	11.097800	17.578500	2.572100	38.303114	1.503030	0.016259	0.158003	0.038130	0.003282	0.001564	0.109874	0.000545	0.010790	0.006222	0.001691	0.016912
28-Oct-2033	0.087463	11.066500	17.522600	2.566770	38.203009	1.497690	0.016205	0.157462	0.038050	0.003274	0.001562	0.110449	0.000543	0.010764	0.006203	0.001686	0.016863
29-Oct-2033	0.086944	11.097000	17.572200	2.573520	38.306964	1.502030	0.016251	0.157914	0.038149	0.003283	0.001567	0.110836	0.000545	0.010793	0.006220	0.001691	0.016910
30-Oct-2033	0.086327	11.142800	17.644500	2.584140	38.465060	1.508210	0.016318	0.158565	0.038305	0.003297	0.001573	0.111227	0.000547	0.010837	0.006246	0.001698	0.016979
31-Oct-2033	0.086032	11.198100	17.731800	2.597100	38.656514	1.515640	0.016398	0.159347	0.038496	0.003313	0.001580	0.110984	0.000549	0.010892	0.006277	0.001706	0.017064
1-Nov-2033	0.086113	11.266500	17.839100	2.613250	38.893814	1.524740	0.016497	0.160306	0.038733	0.003334	0.001590	0.111694	0.000553	0.010959	0.006315	0.001717	0.017168
2-Nov-2033	0.085978	11.301900	17.894600	2.621730	39.017128	1.529410	0.016548	0.160799	0.038857	0.003345	0.001595	0.112078	0.000554	0.010994	0.006335	0.001722	0.017221
3-Nov-2033	0.085835	11.297600	17.887500	2.620750	39.002356	1.528800	0.016542	0.160735	0.038842	0.003343	0.001595	0.112299	0.000554	0.010989	0.006332	0.001721	0.017215
4-Nov-2033	0.085950	11.339100	17.953600	2.630290	39.145267	1.534470	0.016603	0.161331	0.038982	0.003356	0.001601	0.112567	0.000556	0.011030	0.006356	0.001728	0.017278
5-Nov-2033	0.085870	11.382000	18.020600	2.640520	39.294515	1.540120	0.016665	0.161927	0.039132	0.003369	0.001607	0.112904	0.000558	0.011072	0.006379	0.001734	0.017343
6-Nov-2033	0.085401	11.438100	18.108700	2.653790	39.489243	1.547580	0.016746	0.162714	0.039328	0.003386	0.001615	0.113491	0.000561	0.011127	0.006411	0.001743	0.017428
7-Nov-2033	0.085027	11.487900	18.186500	2.665650	39.662433	1.554150	0.016817	0.163408	0.039502	0.003401	0.001623	0.114025	0.000564	0.011176	0.006439	0.001750	0.017504
8-Nov-2033	0.084811	11.535900	18.261900	2.677010	39.829069	1.560530	0.016887	0.164081	0.039668	0.003415	0.001630	0.114530	0.000566	0.011223	0.006465	0.001758	0.017577
9-Nov-2033	0.084615	11.596200	18.357100	2.691110	40.037702	1.568650	0.016975	0.164935	0.039875	0.003433	0.001638	0.115141	0.000569	0.011282	0.006499	0.001767	0.017669
10-Nov-2033	0.084330	11.641000	18.425700	2.702270	40.195525	1.574300	0.017037	0.165536	0.040036	0.003447	0.001646	0.115682	0.000571	0.011327	0.006524	0.001774	0.017736
11-Nov-2033	0.083469	11.677700	18.486000	2.710050	40.319203	1.579660	0.017094	0.166093	0.040153	0.003457	0.001650	0.115957	0.000573	0.011361	0.006545	0.001779	0.017793
12-Nov-2033	0.082315	11.718200	18.553100	2.718480	40.455046	1.585680	0.017157	0.166715	0.040279	0.003469	0.001654	0.116240	0.000575	0.011398	0.006568	0.001785	0.017855
13-Nov-2033	0.081585	11.750400	18.605200	2.725660	40.565017	1.590210	0.017206	0.167189	0.040386	0.003478	0.001658	0.116524	0.000577	0.011429	0.006586	0.001790	0.017904
14-Nov-2033	0.081400	11.809600	18.697400	2.739860	40.771315	1.597960	0.017290	0.168008	0.040596	0.003496	0.001667	0.117169	0.000579	0.011488	0.006619	0.001799	0.017994
15-Nov-2033	0.081532	11.868900	18.789400	2.754230	40.978562	1.605660	0.017375	0.168823	0.040806	0.003514	0.001677	0.117832	0.000582	0.011547	0.006652	0.001808	0.018084
16-Nov-2033	0.081610	11.901600	18.839900	2.762270	41.093323	1.609840	0.017421	0.169268	0.040924	0.003524	0.001682	0.118213	0.000584	0.011580	0.006670	0.001813	0.018133
17-Nov-2033	0.081705	11.939300	18.898900	2.771220	41.224316	1.614830	0.017475	0.169794	0.041055	0.003536	0.001687	0.118613	0.000586	0.011617	0.006691	0.001819	0.018191
18-Nov-2033	0.081678	11.985300	18.970900	2.782170	41.384270	1.620920	0.017541	0.170437	0.041215	0.003549	0.001694	0.119104	0.000588	0.011662	0.006717	0.001826	0.018261
19-Nov-2033	0.081064	12.066900	19.099000	2.801450	41.667420	1.631770	0.017659	0.171581	0.041498	0.003574	0.001706	0.119960	0.000592	0.011742	0.006762	0.001838	0.018385
20-Nov-2033	0.080342	12.086400	19.127600	2.806760	41.737978	1.634000	0.017685	0.171823	0.041570	0.003581	0.001710	0.120255	0.000593	0.011763	0.006773	0.001841	0.018413
21-Nov-2033	0.080159	12.142500	19.215600	2.819970	41.932459	1.641480	0.017766	0.172611	0.041763	0.003598	0.001718	0.120838	0.000595	0.011818	0.006804	0.001850	0.018499
22-Nov-2033	0.079867	12.171500	19.261900	2.826610	42.032215	1.645460	0.017809	0.173028	0.041862	0.003606	0.001722	0.121115	0.000597	0.011846	0.006820	0.001854	0.018543
23-Nov-2033	0.079368	12.227100	19.349800	2.839600	42.224542	1.652950	0.017890	0.173817	0.042054	0.003623	0.001730	0.121677	0.000599	0.011900	0.006852	0.001863	0.018628
24-Nov-2033	0.079069	12.215000	19.330600	2.836750	42.182592	1.651320	0.017872	0.173646	0.042011	0.003619	0.001728	0.121553	0.000599	0.011888	0.006845	0.001861	0.018609
25-Nov-2033	0.079216	12.280400	19.435100	2.851620	42.407130	1.660330	0.017969	0.174589	0.042234	0.003638	0.001737	0.122163	0.000602	0.011951	0.006882	0.001871	0.018709
26-Nov-2033	0.079162	12.308300	19.480500	2.857680	42.501751	1.664320	0.018012	0.175005	0.042325	0.003646	0.001740	0.122388	0.000604	0.011977	0.006897	0.001875	0.018752
27-Nov-2033	0.078894	12.354300	19.553100	2.868420	42.660841	1.670510	0.018079	0.175657	0.042484	0.003660	0.001747	0.122853	0.000606	0.012022	0.006923	0.001882	0.018822
28-Nov-2033	0.078805	12.409400	19.639800	2.881390	42.851836	1.677870	0.018159	0.176433	0.042674	0.003676	0.001755	0.123424	0.000608	0.012076	0.006954	0.001891	0.018906
29-Nov-2033	0.078783	12.468700	19.733200	2.895350	43.057395	1.685800	0.018245	0.177268	0.042880	0.003694	0.001764	0.124038	0.000611	0.012134	0.006987	0.001900	0.018996
30-Nov-2033	0.078804	12.529000	19.828400	2.909430	43.265946	1.693910	0.018333	0.178121	0.043088	0.003712	0.001772	0.124648	0.000614	0.012193	0.007021	0.001909	0.019088
1-Dec-2033	0.078727	12.582300	19.912700	2.921830	43.450099	1.701110	0.018411	0.178879	0.043271	0.003728	0.001780	0.125181	0.000617	0.012245	0.007051	0.001917	0.019169
2-Dec-2033	0.078538	12.630900	19.989600	2.933090	43.617822	1.707690	0.018482	0.179570	0.043436	0.003742	0.001787	0.125664	0.000619	0.012292	0.007078	0.001924	0.019243
3-Dec-2033	0.078081	12.669700	20.050800	2.942170	43.752097	1.712900	0.018538	0.180118	0.043570	0.003754	0.001792	0.126059	0.000621	0.012330	0.007100	0.001930	0.019302
4-Dec-2033	0.078064	12.718800	20.128200	2.953650	43.921974	1.719500	0.018610	0.180813	0.043739	0.003769	0.001799	0.126558	0.000624	0.012378	0.007127	0.001938	0.019377
5-Dec-2033	0.078079	12.789300	20.239700	2.970070	44.165630	1.729010	0.018713	0.181813	0.043982	0.003789	0.001809	0.127265	0.000627	0.012447	0.007167	0.001948	0.019484
6-Dec-2033	0.077954	12.876900	20.378100	2.990460	44.468334	1.740820	0.018841	0.183056	0.044284	0.003815	0.001822	0.128144	0.000631	0.012532	0.007216	0.001962	0.019617
7-Dec-2033	0.077660	12.954900	20.501400	3.008650	44.738006	1.751330	0.018955	0.184162	0.044553	0.003839	0.001833	0.128929	0.000635	0.012608	0.007259	0.001974	0.019736
8-Dec-2033	0.077622	13.042700	20.640300	3.029100	45.041456	1.763180	0.019083	0.185408	0.044855	0.003865	0.001845	0.129810	0.000639	0.012694	0.007309	0.001987	0.019870
9-Dec-2033	0.077668	13.131900	20.781300	3.049870	45.349719	1.775210	0.019213	0.186674	0.045162	0.003891	0.001858	0.130704	0.000644	0.012781	0.007358	0.002001	0.020006
10-Dec-2033	0.077316	13.192900	20.877500	3.064100	45.560635	1.783410	0.019302	0.187537	0.045372	0.003909	0.001867	0.131321	0.000647	0.012840	0.007393	0.002010	0.020098
11-Dec-2033	0.077141	12.896000	20.407200	2.995310	44.535999	1.743200	0.018867	0.183310	0.044352	0.003822	0.001825	0.128387	0.000632	0.012552	0.007226	0.001965	0.019646
12-Dec-2033	0.077290	12.760300	20.186300	2.965820	44.075716	1.723780	0.018660	0.181287	0.043902	0.003784	0.001808	0.127299	0.000625	0.012424	0.007149	0.001944	0.019437

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Dec-2033	0.077210	12.843900	20.315400	2.986230	44.368513	1.734530	0.018778	0.182427	0.044201	0.003810	0.001821	0.128256	0.000629	0.012508	0.007195	0.001956	0.019564
14-Dec-2033	0.076946	12.838800	20.311400	2.983790	44.345731	1.734540	0.018776	0.182416	0.044168	0.003807	0.001819	0.128047	0.000629	0.012500	0.007193	0.001956	0.019557
15-Dec-2033	0.076926	12.901800	20.409800	2.998810	44.564894	1.742840	0.018867	0.183293	0.044389	0.003826	0.001828	0.128723	0.000632	0.012562	0.007228	0.001965	0.019653
16-Dec-2033	0.076947	12.981600	20.529000	3.019580	44.849686	1.752390	0.018974	0.184320	0.044690	0.003852	0.001842	0.129799	0.000636	0.012645	0.007272	0.001977	0.019773
17-Dec-2033	0.076668	13.021700	20.597400	3.027360	44.981853	1.758670	0.019039	0.184964	0.044810	0.003862	0.001846	0.130005	0.000638	0.012680	0.007295	0.001983	0.019835
18-Dec-2033	0.076675	13.088200	20.703100	3.042670	45.210950	1.767730	0.019137	0.185916	0.045037	0.003882	0.001855	0.130649	0.000641	0.012745	0.007332	0.001994	0.019936
19-Dec-2033	0.076722	13.192600	20.865300	3.067850	45.575329	1.781330	0.019286	0.187355	0.045406	0.003914	0.001871	0.131807	0.000646	0.012849	0.007390	0.002009	0.020095
20-Dec-2033	0.076511	13.247300	20.954700	3.079670	45.760589	1.789210	0.019370	0.188175	0.045585	0.003929	0.001878	0.132240	0.000649	0.012900	0.007422	0.002018	0.020179
21-Dec-2033	0.076505	13.334700	21.092400	3.100140	46.063122	1.800930	0.019497	0.189409	0.045887	0.003955	0.001891	0.133132	0.000653	0.012985	0.007470	0.002031	0.020312
22-Dec-2033	0.076525	13.443000	21.261800	3.125920	46.439710	1.815220	0.019652	0.190918	0.046266	0.003988	0.001907	0.134289	0.000659	0.013092	0.007531	0.002048	0.020476
23-Dec-2033	0.076374	13.501100	21.355500	3.138870	46.638113	1.823380	0.019740	0.191771	0.046460	0.004004	0.001914	0.134798	0.000661	0.013147	0.007564	0.002057	0.020565
24-Dec-2033	0.076380	13.573700	21.470800	3.155580	46.888207	1.833270	0.019847	0.192809	0.046708	0.004026	0.001924	0.135502	0.000665	0.013218	0.007604	0.002068	0.020676
25-Dec-2033	0.076362	13.681300	21.639300	3.181140	47.262141	1.847510	0.020002	0.194312	0.047084	0.004058	0.001940	0.136645	0.000670	0.013324	0.007664	0.002084	0.020839
26-Dec-2033	0.076149	13.729100	21.716300	3.191810	47.425436	1.854210	0.020073	0.195012	0.047244	0.004072	0.001946	0.137067	0.000673	0.013369	0.007691	0.002091	0.020912
27-Dec-2033	0.076181	13.776400	21.792200	3.202480	47.587483	1.860780	0.020144	0.195699	0.047403	0.004086	0.001953	0.137498	0.000675	0.013414	0.007718	0.002098	0.020985
28-Dec-2033	0.076164	13.865800	21.932700	3.223560	47.897523	1.872700	0.020274	0.196956	0.047713	0.004113	0.001966	0.138427	0.000679	0.013502	0.007768	0.002112	0.021121
29-Dec-2033	0.075931	13.914000	22.009300	3.234600	48.063341	1.879280	0.020344	0.197647	0.047877	0.004127	0.001972	0.138889	0.000682	0.013549	0.007795	0.002119	0.021194
30-Dec-2033	0.075953	13.942700	22.056100	3.240840	48.160701	1.883390	0.020388	0.198075	0.047971	0.004135	0.001976	0.139121	0.000683	0.013576	0.007811	0.002124	0.021238
31-Dec-2033	0.075956	14.024700	22.185400	3.260050	48.444562	1.894400	0.020508	0.199234	0.048255	0.004159	0.001988	0.139958	0.000687	0.013656	0.007857	0.002136	0.021363
1-Jan-2034	0.075780	14.075700	22.266300	3.271860	48.620542	1.901320	0.020583	0.199961	0.048430	0.004174	0.001995	0.140460	0.000690	0.013705	0.007886	0.002144	0.021441

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Sep-2021	12.000000	3.515000	3.600000	1.900000	16.601155	0.005000	0.001000	0.005000	0.014000	0.000240	0.001500	0.032000	0.000015	0.003500	0.001100	0.000250	0.002500
16-Sep-2021	11.368386	3.516450	3.601480	1.900780	16.607988	0.005002	0.001000	0.005002	0.014006	0.000240	0.001501	0.032013	0.000015	0.003501	0.001100	0.000250	0.002501
17-Sep-2021	10.945591	3.517780	3.602840	1.901500	16.614274	0.005004	0.001001	0.005004	0.014011	0.000240	0.001501	0.032025	0.000015	0.003503	0.001101	0.000250	0.002502
18-Sep-2021	10.458841	3.519370	3.604480	1.902360	16.621785	0.005006	0.001001	0.005006	0.014017	0.000240	0.001502	0.032040	0.000015	0.003504	0.001101	0.000250	0.002503
19-Sep-2021	10.155992	3.520440	3.605570	1.902940	16.626846	0.005008	0.001002	0.005008	0.014022	0.000240	0.001502	0.032050	0.000015	0.003505	0.001102	0.000250	0.002504
20-Sep-2021	9.931116	3.521020	3.606160	1.903250	16.629570	0.005009	0.001002	0.005009	0.014024	0.000240	0.001503	0.032055	0.000015	0.003506	0.001102	0.000250	0.002504
21-Sep-2021	9.413471	3.521870	3.607030	1.903710	16.633587	0.005010	0.001002	0.005010	0.014027	0.000240	0.001503	0.032063	0.000015	0.003507	0.001102	0.000250	0.002505
22-Sep-2021	8.903804	3.522960	3.608160	1.904310	16.638780	0.005011	0.001002	0.005011	0.014032	0.000241	0.001503	0.032073	0.000015	0.003508	0.001102	0.000251	0.002506
23-Sep-2021	8.482219	3.522620	3.607810	1.904120	16.637148	0.005011	0.001002	0.005011	0.014030	0.000241	0.001503	0.032069	0.000015	0.003508	0.001102	0.000251	0.002505
24-Sep-2021	8.393992	3.524450	3.609680	1.905110	16.645795	0.005013	0.001003	0.005013	0.014038	0.000241	0.001504	0.032086	0.000015	0.003509	0.001103	0.000251	0.002507
25-Sep-2021	7.909634	3.525690	3.610950	1.905780	16.651650	0.005015	0.001003	0.005015	0.014043	0.000241	0.001505	0.032097	0.000015	0.003511	0.001103	0.000251	0.002508
26-Sep-2021	6.958580	3.526480	3.611760	1.906210	16.655393	0.005016	0.001003	0.005016	0.014046	0.000241	0.001505	0.032105	0.000015	0.003511	0.001104	0.000251	0.002508
27-Sep-2021	6.219233	3.527770	3.613080	1.906900	16.661456	0.005018	0.001004	0.005018	0.014051	0.000241	0.001505	0.032116	0.000015	0.003513	0.001104	0.000251	0.002509
28-Sep-2021	5.419857	3.529160	3.614500	1.907650	16.668015	0.005020	0.001004	0.005020	0.014056	0.000241	0.001506	0.032129	0.000015	0.003514	0.001104	0.000251	0.002510
29-Sep-2021	5.144901	3.531500	3.616900	1.908920	16.679088	0.005023	0.001005	0.005023	0.014066	0.000241	0.001507	0.032150	0.000015	0.003516	0.001105	0.000251	0.002512
30-Sep-2021	4.802447	3.532310	3.617730	1.909360	16.682923	0.005025	0.001005	0.005025	0.014069	0.000241	0.001507	0.032158	0.000015	0.003517	0.001105	0.000251	0.002512
1-Oct-2021	4.641822	3.531240	3.616630	1.908780	16.677862	0.005023	0.001005	0.005023	0.014065	0.000241	0.001507	0.032148	0.000015	0.003516	0.001105	0.000251	0.002512
2-Oct-2021	4.481109	3.531060	3.616450	1.908680	16.677001	0.005023	0.001005	0.005023	0.014064	0.000241	0.001507	0.032146	0.000015	0.003516	0.001105	0.000251	0.002511
3-Oct-2021	4.348505	3.530000	3.615360	1.908110	16.672007	0.005021	0.001004	0.005021	0.014060	0.000241	0.001506	0.032137	0.000015	0.003515	0.001105	0.000251	0.002511
4-Oct-2021	4.487438	3.529880	3.615240	1.908040	16.671419	0.005021	0.001004	0.005021	0.014059	0.000241	0.001506	0.032135	0.000015	0.003515	0.001105	0.000251	0.002511
5-Oct-2021	3.827958	3.529360	3.614700	1.907760	16.668968	0.005020	0.001004	0.005020	0.014057	0.000241	0.001506	0.032131	0.000015	0.003514	0.001104	0.000251	0.002510
6-Oct-2021	3.188074	3.529280	3.614630	1.907720	16.668603	0.005020	0.001004	0.005020	0.014057	0.000241	0.001506	0.032130	0.000015	0.003514	0.001104	0.000251	0.002510
7-Oct-2021	2.526687	3.529380	3.614730	1.907770	16.669059	0.005020	0.001004	0.005020	0.014057	0.000241	0.001506	0.032131	0.000015	0.003514	0.001105	0.000251	0.002510
8-Oct-2021	2.322453	3.528540	3.613870	1.907320	16.665108	0.005019	0.001004	0.005019	0.014054	0.000241	0.001506	0.032123	0.000015	0.003513	0.001104	0.000251	0.002510
9-Oct-2021	1.406532	3.528240	3.613560	1.907160	16.663700	0.005019	0.001004	0.005019	0.014053	0.000241	0.001506	0.032121	0.000015	0.003513	0.001104	0.000251	0.002509
10-Oct-2021	0.292788	3.528250	3.613570	1.907160	16.663725	0.005019	0.001004	0.005019	0.014053	0.000241	0.001506	0.032121	0.000015	0.003513	0.001104	0.000251	0.002509
11-Oct-2021	0.239117	3.527660	3.612960	1.906840	16.660934	0.005018	0.001004	0.005018	0.014050	0.000241	0.001505	0.032115	0.000015	0.003513	0.001104	0.000251	0.002509
12-Oct-2021	0.126654	3.527530	3.612830	1.906770	16.660321	0.005018	0.001004	0.005018	0.014050	0.000241	0.001505	0.032114	0.000015	0.003512	0.001104	0.000251	0.002509
13-Oct-2021	0.231897	3.526520	3.611800	1.906230	16.655576	0.005016	0.001003	0.005016	0.014046	0.000241	0.001505	0.032105	0.000015	0.003511	0.001104	0.000251	0.002508
14-Oct-2021	0.075549	3.525950	3.611220	1.905920	16.652876	0.005016	0.001003	0.005016	0.014044	0.000241	0.001505	0.032100	0.000015	0.003511	0.001103	0.000251	0.002508
15-Oct-2021	0.043729	3.525670	3.610930	1.905770	16.651559	0.005015	0.001003	0.005015	0.014043	0.000241	0.001505	0.032097	0.000015	0.003511	0.001103	0.000251	0.002508
16-Oct-2021	0.046189	3.530170	3.615540	1.908200	16.672802	0.005022	0.001004	0.005022	0.014060	0.000241	0.001506	0.032138	0.000015	0.003515	0.001105	0.000251	0.002511
17-Oct-2021	0.046576	3.576680	3.663170	1.933340	16.892464	0.005088	0.001018	0.005088	0.014246	0.000244	0.001526	0.032562	0.000015	0.003561	0.001119	0.000254	0.002544
18-Oct-2021	0.046490	3.629610	3.717380	1.961950	17.142446	0.005163	0.001033	0.005163	0.014457	0.000248	0.001549	0.033043	0.000015	0.003614	0.001136	0.000258	0.002582
19-Oct-2021	0.047988	3.680730	3.769740	1.989580	17.383873	0.005236	0.001047	0.005236	0.014660	0.000251	0.001571	0.033509	0.000016	0.003665	0.001152	0.000262	0.002618
20-Oct-2021	0.051119	3.722660	3.812680	2.012250	17.581928	0.005295	0.001059	0.005295	0.014827	0.000254	0.001589	0.033891	0.000016	0.003707	0.001165	0.000265	0.002648
21-Oct-2021	0.054040	3.773680	3.864930	2.039830	17.822899	0.005368	0.001074	0.005368	0.015030	0.000258	0.001610	0.034355	0.000016	0.003758	0.001181	0.000268	0.002684
22-Oct-2021	0.055700	3.818920	3.911270	2.064280	18.036548	0.005432	0.001086	0.005432	0.015211	0.000261	0.001630	0.034767	0.000016	0.003803	0.001195	0.000272	0.002716
23-Oct-2021	0.056255	3.869420	3.962990	2.091580	18.275068	0.005504	0.001101	0.005504	0.015412	0.000264	0.001651	0.035227	0.000017	0.003853	0.001211	0.000275	0.002752
24-Oct-2021	0.056327	3.920320	4.015120	2.119090	18.515452	0.005577	0.001115	0.005577	0.015614	0.000268	0.001673	0.035690	0.000017	0.003904	0.001227	0.000279	0.002788
25-Oct-2021	0.056298	3.970130	4.066140	2.146020	18.750725	0.005647	0.001129	0.005647	0.015813	0.000271	0.001694	0.036143	0.000017	0.003953	0.001242	0.000282	0.002824
26-Oct-2021	0.056346	4.018100	4.115260	2.171940	18.977245	0.005716	0.001143	0.005716	0.016004	0.000274	0.001715	0.036580	0.000017	0.004001	0.001257	0.000286	0.002858
27-Oct-2021	0.056196	4.064570	4.162860	2.197070	19.196766	0.005782	0.001156	0.005782	0.016189	0.000278	0.001735	0.037003	0.000017	0.004047	0.001272	0.000289	0.002891
28-Oct-2021	0.056039	4.110120	4.209510	2.221690	19.411889	0.005847	0.001169	0.005847	0.016370	0.000281	0.001754	0.037418	0.000018	0.004093	0.001286	0.000292	0.002923
29-Oct-2021	0.055931	4.155000	4.255480	2.245950	19.623857	0.005910	0.001182	0.005910	0.016549	0.000284	0.001773	0.037827	0.000018	0.004137	0.001300	0.000296	0.002955
30-Oct-2021	0.055658	4.199670	4.301230	2.270090	19.834807	0.005974	0.001195	0.005974	0.016727	0.000287	0.001792	0.038233	0.000018	0.004182	0.001314	0.000299	0.002987
31-Oct-2021	0.055428	4.244540	4.347180	2.294350	20.046750	0.006038	0.001208	0.006038	0.016906	0.000290	0.001811	0.038642	0.000018	0.004226	0.001328	0.000302	0.003019
1-Nov-2021	0.055265	4.290480	4.394230	2.319180	20.263712	0.006103	0.001221	0.006103	0.017089	0.000293	0.001831	0.039060	0.000018	0.004272	0.001343	0.000305	0.003052
2-Nov-2021	0.055183	4.337640	4.442530	2.344670	20.486438	0.006170	0.001234	0.006170	0.017277	0.000296	0.001851	0.039489	0.000019	0.004319	0.001357	0.000309	0.003085
3-Nov-2021	0.055210	4.386250	4.492310	2.370940	20.715997	0.006239	0.001248	0.006239	0.017470	0.000299	0.001872	0.039932	0.000019	0.004368	0.001373	0.000312	0.003120
4-Nov-2021	0.055271	4.436170	4.543450	2.397930	20.951792	0.006310	0.001262	0.006310	0.017669	0.000303	0.001893	0.040386	0.000019	0.004417	0.001388	0.000316	0.003155
5-Nov-2021	0.055370	4.487310	4.595820	2.425570	21.193310	0.006383	0.001277	0.006383	0.017873	0.000306	0.001915	0.040852	0.000019	0.004468	0.001404	0.000319	0.003192

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
6-Nov-2021	0.055485	4.540690	4.650500	2.454430	21.445446	0.006459	0.001292	0.006459	0.018085	0.000310	0.001938	0.041338	0.000019	0.004521	0.001421	0.000323	0.003230
7-Nov-2021	0.055632	4.591800	4.702840	2.482060	21.686848	0.006532	0.001306	0.006532	0.018289	0.000314	0.001960	0.041803	0.000020	0.004572	0.001437	0.000327	0.003266
8-Nov-2021	0.055880	4.642980	4.755250	2.509720	21.928548	0.006605	0.001321	0.006605	0.018493	0.000317	0.001981	0.042269	0.000020	0.004623	0.001453	0.000330	0.003302
9-Nov-2021	0.056138	4.693810	4.807320	2.537190	22.168592	0.006677	0.001335	0.006677	0.018695	0.000320	0.002003	0.042732	0.000020	0.004674	0.001469	0.000334	0.003338
10-Nov-2021	0.056299	4.744420	4.859150	2.564550	22.407634	0.006749	0.001350	0.006749	0.018897	0.000324	0.002025	0.043192	0.000020	0.004724	0.001485	0.000337	0.003374
11-Nov-2021	0.056375	4.794410	4.910350	2.591570	22.643727	0.006820	0.001364	0.006820	0.019096	0.000327	0.002046	0.043648	0.000020	0.004774	0.001500	0.000341	0.003410
12-Nov-2021	0.056479	4.843750	4.960880	2.618240	22.876756	0.006890	0.001378	0.006890	0.019292	0.000331	0.002067	0.044097	0.000021	0.004823	0.001516	0.000345	0.003445
13-Nov-2021	0.056592	4.892900	5.011220	2.644810	23.108899	0.006960	0.001392	0.006960	0.019488	0.000334	0.002088	0.044544	0.000021	0.004872	0.001531	0.000348	0.003480
14-Nov-2021	0.056684	4.942800	5.062330	2.671780	23.344562	0.007031	0.001406	0.007031	0.019687	0.000337	0.002109	0.044998	0.000021	0.004922	0.001547	0.000352	0.003516
15-Nov-2021	0.056774	4.992060	5.112780	2.698410	23.577226	0.007101	0.001420	0.007101	0.019883	0.000341	0.002130	0.045447	0.000021	0.004971	0.001562	0.000355	0.003551
16-Nov-2021	0.056779	5.038540	5.160380	2.723540	23.796772	0.007167	0.001433	0.007167	0.020068	0.000344	0.002150	0.045870	0.000022	0.005017	0.001577	0.000358	0.003584
17-Nov-2021	0.056741	5.082360	5.205270	2.747220	24.003705	0.007230	0.001446	0.007230	0.020243	0.000347	0.002169	0.046269	0.000022	0.005061	0.001591	0.000361	0.003615
18-Nov-2021	0.056716	5.124710	5.248640	2.770110	24.203714	0.007290	0.001458	0.007290	0.020411	0.000350	0.002187	0.046655	0.000022	0.005103	0.001604	0.000364	0.003645
19-Nov-2021	0.056796	5.133200	5.257330	2.774700	24.243815	0.007302	0.001460	0.007302	0.020445	0.000350	0.002191	0.046732	0.000022	0.005111	0.001606	0.000365	0.003651
20-Nov-2021	0.056941	5.173490	5.298600	2.796480	24.434109	0.007359	0.001472	0.007359	0.020606	0.000353	0.002208	0.047099	0.000022	0.005151	0.001619	0.000368	0.003680
21-Nov-2021	0.057115	5.216380	5.342520	2.819660	24.636661	0.007420	0.001484	0.007420	0.020777	0.000356	0.002226	0.047489	0.000022	0.005194	0.001632	0.000371	0.003710
22-Nov-2021	0.057283	5.263520	5.390800	2.845140	24.859296	0.007487	0.001497	0.007487	0.020964	0.000359	0.002246	0.047918	0.000022	0.005241	0.001647	0.000374	0.003744
23-Nov-2021	0.057344	5.315840	5.444390	2.873430	25.106437	0.007562	0.001512	0.007562	0.021173	0.000363	0.002269	0.048395	0.000023	0.005293	0.001664	0.000378	0.003781
24-Nov-2021	0.063271	4.434040	4.541260	2.396780	20.941738	0.006307	0.001261	0.006307	0.017661	0.000303	0.001892	0.040367	0.000019	0.004415	0.001388	0.000315	0.003154
25-Nov-2021	0.063160	4.464160	4.572110	2.413060	21.083989	0.006350	0.001270	0.006350	0.017780	0.000305	0.001905	0.040641	0.000019	0.004445	0.001397	0.000318	0.003175
26-Nov-2021	0.063038	4.486780	4.595280	2.425290	21.190834	0.006382	0.001276	0.006382	0.017871	0.000306	0.001915	0.040847	0.000019	0.004468	0.001404	0.000319	0.003191
27-Nov-2021	0.063031	4.511150	4.620240	2.438460	21.305920	0.006417	0.001283	0.006417	0.017968	0.000308	0.001925	0.041069	0.000019	0.004492	0.001412	0.000321	0.003209
28-Nov-2021	0.062985	4.549980	4.660000	2.459450	21.489315	0.006472	0.001294	0.006472	0.018122	0.000311	0.001942	0.041422	0.000019	0.004531	0.001424	0.000324	0.003236
29-Nov-2021	0.062956	4.524770	4.634190	2.445820	21.370237	0.006436	0.001287	0.006436	0.018022	0.000309	0.001931	0.041193	0.000019	0.004505	0.001416	0.000322	0.003218
30-Nov-2021	0.062980	4.536570	4.646270	2.452200	21.425975	0.006453	0.001291	0.006453	0.018069	0.000310	0.001936	0.041300	0.000019	0.004517	0.001420	0.000323	0.003227
1-Dec-2021	0.063135	4.553590	4.663700	2.461400	21.506359	0.006477	0.001295	0.006477	0.018137	0.000311	0.001943	0.041455	0.000019	0.004534	0.001425	0.000324	0.003239
2-Dec-2021	0.063322	4.578670	4.689390	2.474960	21.624824	0.006513	0.001303	0.006513	0.018237	0.000313	0.001954	0.041684	0.000020	0.004559	0.001433	0.000326	0.003257
3-Dec-2021	0.063517	4.610300	4.721790	2.492060	21.774222	0.006558	0.001312	0.006558	0.018363	0.000315	0.001967	0.041972	0.000020	0.004591	0.001443	0.000328	0.003279
4-Dec-2021	0.063839	4.639870	4.752070	2.508040	21.913864	0.006600	0.001320	0.006600	0.018480	0.000317	0.001980	0.042241	0.000020	0.004620	0.001452	0.000330	0.003300
5-Dec-2021	0.063950	4.656990	4.769610	2.517290	21.994704	0.006624	0.001325	0.006624	0.018549	0.000318	0.001987	0.042397	0.000020	0.004637	0.001457	0.000331	0.003312
6-Dec-2021	0.064041	4.673800	4.786820	2.526380	22.074111	0.006648	0.001330	0.006648	0.018615	0.000319	0.001995	0.042550	0.000020	0.004654	0.001463	0.000332	0.003324
7-Dec-2021	0.064099	4.709600	4.823480	2.545730	22.243187	0.006699	0.001340	0.006699	0.018758	0.000322	0.002010	0.042875	0.000020	0.004690	0.001474	0.000335	0.003350
8-Dec-2021	0.064133	4.741870	4.856540	2.563170	22.395583	0.006745	0.001349	0.006745	0.018887	0.000324	0.002024	0.043169	0.000020	0.004722	0.001484	0.000337	0.003373
9-Dec-2021	0.064081	4.743300	4.858000	2.563940	22.402325	0.006747	0.001349	0.006747	0.018892	0.000324	0.002024	0.043182	0.000020	0.004723	0.001484	0.000337	0.003374
10-Dec-2021	0.063966	4.756960	4.871990	2.571330	22.466866	0.006767	0.001353	0.006767	0.018947	0.000325	0.002030	0.043307	0.000020	0.004737	0.001489	0.000338	0.003383
11-Dec-2021	0.063881	4.767270	4.882550	2.576900	22.515547	0.006781	0.001356	0.006781	0.018988	0.000326	0.002034	0.043400	0.000020	0.004747	0.001492	0.000339	0.003391
12-Dec-2021	0.063943	4.769590	4.884930	2.578160	22.526529	0.006785	0.001357	0.006785	0.018997	0.000326	0.002035	0.043422	0.000020	0.004749	0.001493	0.000339	0.003392
13-Dec-2021	0.064132	4.777270	4.892790	2.582310	22.562796	0.006796	0.001359	0.006796	0.019028	0.000326	0.002039	0.043492	0.000020	0.004757	0.001495	0.000340	0.003398
14-Dec-2021	0.064446	4.779530	4.895110	2.583530	22.573463	0.006799	0.001360	0.006799	0.019037	0.000326	0.002040	0.043512	0.000020	0.004759	0.001496	0.000340	0.003399
15-Dec-2021	0.064730	4.815650	4.932100	2.603050	22.744038	0.006850	0.001370	0.006850	0.019180	0.000329	0.002055	0.043841	0.000021	0.004795	0.001507	0.000343	0.003425
16-Dec-2021	0.064930	4.860110	4.977630	2.627080	22.954010	0.006913	0.001383	0.006913	0.019358	0.000332	0.002074	0.044246	0.000021	0.004839	0.001521	0.000346	0.003457
17-Dec-2021	0.065024	4.908780	5.027480	2.653390	23.183884	0.006983	0.001397	0.006983	0.019551	0.000335	0.002095	0.044689	0.000021	0.004888	0.001536	0.000349	0.003491
18-Dec-2021	0.064993	4.944170	5.063730	2.672520	23.351030	0.007033	0.001407	0.007033	0.019692	0.000338	0.002110	0.045011	0.000021	0.004923	0.001547	0.000352	0.003516
19-Dec-2021	0.064891	4.982420	5.102910	2.693200	23.531700	0.007087	0.001417	0.007087	0.019845	0.000340	0.002126	0.045359	0.000021	0.004961	0.001559	0.000354	0.003544
20-Dec-2021	0.064787	5.011870	5.133070	2.709120	23.670796	0.007129	0.001426	0.007129	0.019962	0.000342	0.002139	0.045627	0.000021	0.004990	0.001568	0.000356	0.003565
21-Dec-2021	0.064679	5.033120	5.154830	2.720600	23.771131	0.007159	0.001432	0.007159	0.020047	0.000344	0.002148	0.045821	0.000021	0.005012	0.001575	0.000358	0.003580
22-Dec-2021	0.064549	5.042190	5.164120	2.725510	23.813999	0.007172	0.001434	0.007172	0.020083	0.000344	0.002152	0.045903	0.000022	0.005021	0.001578	0.000359	0.003586
23-Dec-2021	0.064441	5.055510	5.177760	2.732710	23.876908	0.007191	0.001438	0.007191	0.020136	0.000345	0.002157	0.046025	0.000022	0.005034	0.001582	0.000360	0.003596
24-Dec-2021	0.064342	5.111810	5.235420	2.763140	24.142800	0.007271	0.001454	0.007271	0.020360	0.000349	0.002181	0.046537	0.000022	0.005090	0.001600	0.000364	0.003636
25-Dec-2021	0.064263	5.166470	5.291400	2.792690	24.400973	0.007349	0.001470	0.007349	0.020578	0.000353	0.002205	0.047035	0.000022	0.005144	0.001617	0.000367	0.003675
26-Dec-2021	0.064171	5.180930	5.306210	2.800500	24.469241	0.007370	0.001474	0.007370	0.020635	0.000354	0.002211	0.047166	0.000022	0.005159	0.001621	0.000368	0.003685
27-Dec-2021	0.064089	5.173950	5.299070	2.796730	24.436287	0.007360	0.001472	0.007360	0.020608	0.000353	0.002208	0.047103	0.000022	0.005152	0.001619	0.000368	0.003680
28-Dec-2021	0.063990	5.203060	5.328890	2.812470	24.573792	0.007401	0.001480	0.007401	0.020723	0.000355	0.002220	0.047368	0.000022	0.005181	0.001628	0.000370	0.003701

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
29-Dec-2021	0.063847	5.256290	5.383400	2.841240	24.825182	0.007477	0.001495	0.007477	0.020935	0.000359	0.002243	0.047852	0.000022	0.005234	0.001645	0.000374	0.003738
30-Dec-2021	0.063707	5.281580	5.409300	2.854910	24.944625	0.007513	0.001503	0.007513	0.021036	0.000361	0.002254	0.048083	0.000023	0.005259	0.001653	0.000376	0.003756
31-Dec-2021	0.063546	5.296070	5.424140	2.862740	25.013050	0.007534	0.001507	0.007534	0.021094	0.000362	0.002260	0.048215	0.000023	0.005273	0.001657	0.000377	0.003767
1-Jan-2022	0.063465	5.308460	5.436830	2.869440	25.071579	0.007551	0.001510	0.007551	0.021143	0.000362	0.002265	0.048327	0.000023	0.005286	0.001661	0.000378	0.003776
2-Jan-2022	0.063402	5.308010	5.436370	2.869190	25.069425	0.007551	0.001510	0.007551	0.021141	0.000362	0.002265	0.048323	0.000023	0.005285	0.001661	0.000378	0.003775
3-Jan-2022	0.063350	5.311290	5.439720	2.870970	25.084946	0.007555	0.001511	0.007555	0.021155	0.000363	0.002267	0.048353	0.000023	0.005289	0.001662	0.000378	0.003778
4-Jan-2022	0.063313	5.308720	5.437090	2.869580	25.072804	0.007552	0.001510	0.007552	0.021144	0.000362	0.002265	0.048330	0.000023	0.005286	0.001661	0.000378	0.003776
5-Jan-2022	0.063291	5.299920	5.428080	2.864820	25.031229	0.007539	0.001508	0.007539	0.021109	0.000362	0.002262	0.048250	0.000023	0.005277	0.001659	0.000377	0.003770
6-Jan-2022	0.063277	5.301990	5.430200	2.865940	25.041010	0.007542	0.001508	0.007542	0.021117	0.000362	0.002263	0.048269	0.000023	0.005279	0.001659	0.000377	0.003771
7-Jan-2022	0.063245	5.304610	5.432880	2.867350	25.053358	0.007546	0.001509	0.007546	0.021128	0.000362	0.002264	0.048292	0.000023	0.005282	0.001660	0.000377	0.003773
8-Jan-2022	0.063188	5.302710	5.430940	2.866330	25.044414	0.007543	0.001509	0.007543	0.021120	0.000362	0.002263	0.048275	0.000023	0.005280	0.001659	0.000377	0.003771
9-Jan-2022	0.063134	5.344040	5.473270	2.888670	25.239611	0.007602	0.001520	0.007602	0.021285	0.000365	0.002281	0.048651	0.000023	0.005321	0.001672	0.000380	0.003801
10-Jan-2022	0.063094	5.382830	5.513000	2.909640	25.422824	0.007657	0.001531	0.007657	0.021439	0.000368	0.002297	0.049004	0.000023	0.005360	0.001685	0.000383	0.003828
11-Jan-2022	0.063071	5.417710	5.548720	2.928490	25.587544	0.007707	0.001541	0.007707	0.021578	0.000370	0.002312	0.049322	0.000023	0.005395	0.001695	0.000385	0.003853
12-Jan-2022	0.063058	5.450430	5.582240	2.946180	25.742093	0.007753	0.001551	0.007753	0.021709	0.000372	0.002326	0.049620	0.000023	0.005427	0.001706	0.000388	0.003877
13-Jan-2022	0.063049	5.482700	5.615280	2.963620	25.894489	0.007799	0.001560	0.007799	0.021837	0.000374	0.002340	0.049914	0.000023	0.005459	0.001716	0.000390	0.003900
14-Jan-2022	0.063047	5.504500	5.637610	2.975410	25.997475	0.007830	0.001566	0.007830	0.021924	0.000376	0.002349	0.050112	0.000023	0.005481	0.001723	0.000392	0.003915
15-Jan-2022	0.063057	5.517070	5.650480	2.982200	26.056823	0.007848	0.001570	0.007848	0.021974	0.000377	0.002354	0.050227	0.000024	0.005494	0.001727	0.000392	0.003924
16-Jan-2022	0.063059	5.528760	5.662460	2.988520	26.112039	0.007865	0.001573	0.007865	0.022021	0.000377	0.002359	0.050333	0.000024	0.005505	0.001730	0.000393	0.003932
17-Jan-2022	0.063039	5.551230	5.685470	3.000660	26.218139	0.007896	0.001579	0.007896	0.022110	0.000379	0.002369	0.050538	0.000024	0.005528	0.001737	0.000395	0.003948
18-Jan-2022	0.063005	5.576470	5.711320	3.014310	26.337374	0.007932	0.001586	0.007932	0.022211	0.000381	0.002380	0.050767	0.000024	0.005553	0.001745	0.000397	0.003966
19-Jan-2022	0.062971	5.598340	5.733720	3.026130	26.440658	0.007964	0.001593	0.007964	0.022298	0.000382	0.002389	0.050966	0.000024	0.005574	0.001752	0.000398	0.003982
20-Jan-2022	0.062948	5.627340	5.763420	3.041810	26.577642	0.008005	0.001601	0.008005	0.022413	0.000384	0.002401	0.051230	0.000024	0.005603	0.001761	0.000400	0.004002
21-Jan-2022	0.062949	5.667020	5.804060	3.063250	26.765012	0.008061	0.001612	0.008061	0.022571	0.000387	0.002418	0.051592	0.000024	0.005643	0.001773	0.000403	0.004031
22-Jan-2022	0.062972	5.713690	5.851860	3.088480	26.985445	0.008128	0.001626	0.008128	0.022757	0.000390	0.002438	0.052017	0.000024	0.005689	0.001788	0.000406	0.004064
23-Jan-2022	0.062999	5.768130	5.907610	3.117910	27.242574	0.008205	0.001641	0.008205	0.022974	0.000394	0.002462	0.052512	0.000025	0.005744	0.001805	0.000410	0.004103
24-Jan-2022	0.063034	5.826360	5.967260	3.149390	27.517609	0.008288	0.001658	0.008288	0.023206	0.000398	0.002486	0.053042	0.000025	0.005802	0.001823	0.000414	0.004144
25-Jan-2022	0.063079	5.884290	6.026580	3.180700	27.791195	0.008370	0.001674	0.008370	0.023437	0.000402	0.002511	0.053570	0.000025	0.005859	0.001841	0.000419	0.004185
26-Jan-2022	0.063126	5.945850	6.089630	3.213970	28.081916	0.008458	0.001692	0.008458	0.023682	0.000406	0.002537	0.054130	0.000025	0.005920	0.001861	0.000423	0.004229
27-Jan-2022	0.063168	6.009150	6.154460	3.248190	28.380894	0.008548	0.001710	0.008548	0.023934	0.000410	0.002564	0.054706	0.000026	0.005984	0.001881	0.000427	0.004274
28-Jan-2022	0.063211	6.072220	6.219050	3.282280	28.678762	0.008638	0.001728	0.008638	0.024185	0.000415	0.002591	0.055281	0.000026	0.006046	0.001900	0.000432	0.004319
29-Jan-2022	0.063259	6.135220	6.283580	3.316340	28.976332	0.008727	0.001745	0.008727	0.024436	0.000419	0.002618	0.055854	0.000026	0.006109	0.001920	0.000436	0.004364
30-Jan-2022	0.063305	6.174860	6.324180	3.337760	29.163521	0.008784	0.001757	0.008784	0.024594	0.000422	0.002635	0.056215	0.000026	0.006149	0.001932	0.000439	0.004392
31-Jan-2022	0.063335	6.232950	6.383680	3.369160	29.437877	0.008866	0.001773	0.008866	0.024825	0.000426	0.002660	0.056744	0.000027	0.006206	0.001951	0.000443	0.004433
1-Feb-2022	0.063345	6.295090	6.447320	3.402750	29.731364	0.008955	0.001791	0.008955	0.025073	0.000430	0.002686	0.057310	0.000027	0.006268	0.001970	0.000448	0.004477
2-Feb-2022	0.063333	6.310100	6.462690	3.410860	29.802241	0.008976	0.001795	0.008976	0.025133	0.000431	0.002693	0.057446	0.000027	0.006283	0.001975	0.000449	0.004488
3-Feb-2022	0.063308	6.371390	6.525460	3.443990	30.091712	0.009063	0.001813	0.009063	0.025377	0.000435	0.002719	0.058004	0.000027	0.006344	0.001994	0.000453	0.004532
4-Feb-2022	0.063292	6.436620	6.592270	3.479260	30.399833	0.009156	0.001831	0.009156	0.025637	0.000439	0.002747	0.058598	0.000027	0.006409	0.002014	0.000458	0.004578
5-Feb-2022	0.063281	6.504440	6.661730	3.515910	30.720104	0.009252	0.001850	0.009252	0.025907	0.000444	0.002776	0.059215	0.000028	0.006477	0.002036	0.000463	0.004626
6-Feb-2022	0.063264	6.573160	6.732110	3.553060	31.044682	0.009350	0.001870	0.009350	0.026180	0.000449	0.002805	0.059841	0.000028	0.006545	0.002057	0.000468	0.004675
7-Feb-2022	0.063241	6.642120	6.802740	3.590330	31.370353	0.009448	0.001890	0.009448	0.026455	0.000454	0.002834	0.060469	0.000028	0.006614	0.002079	0.000472	0.004724
8-Feb-2022	0.063223	6.711000	6.873280	3.627570	31.695700	0.009546	0.001909	0.009546	0.026729	0.000458	0.002864	0.061096	0.000029	0.006682	0.002100	0.000477	0.004773
9-Feb-2022	0.063214	6.733360	6.896180	3.639650	31.801279	0.009578	0.001916	0.009578	0.026819	0.000460	0.002873	0.061299	0.000029	0.006705	0.002107	0.000479	0.004789
10-Feb-2022	0.063209	6.801340	6.965810	3.676400	32.122361	0.009675	0.001935	0.009675	0.027089	0.000464	0.002902	0.061918	0.000029	0.006772	0.002128	0.000484	0.004837
11-Feb-2022	0.063206	6.872150	7.038330	3.714680	32.456811	0.009775	0.001955	0.009775	0.027371	0.000469	0.002933	0.062563	0.000029	0.006843	0.002151	0.000489	0.004888
12-Feb-2022	0.063194	6.882620	7.049060	3.720340	32.506262	0.009790	0.001958	0.009790	0.027413	0.000470	0.002937	0.062658	0.000029	0.006853	0.002154	0.000490	0.004895
13-Feb-2022	0.063193	6.955470	7.123670	3.759710	32.850294	0.009894	0.001979	0.009894	0.027703	0.000475	0.002968	0.063322	0.000030	0.006926	0.002177	0.000495	0.004947
14-Feb-2022	0.063187	7.031230	7.201260	3.800670	33.208140	0.010002	0.002000	0.010002	0.028005	0.000480	0.003001	0.064011	0.000030	0.007001	0.002200	0.000500	0.005001
15-Feb-2022	0.063184	7.099280	7.270960	3.837450	33.529521	0.010099	0.002020	0.010099	0.028276	0.000485	0.003030	0.064631	0.000030	0.007069	0.002222	0.000505	0.005049
16-Feb-2022	0.063183	7.151920	7.324870	3.865900	33.778120	0.010173	0.002035	0.010173	0.028486	0.000488	0.003052	0.065110	0.000031	0.007121	0.002238	0.000509	0.005087
17-Feb-2022	0.063177	7.007940	7.177400	3.788070	33.098098	0.009969	0.001994	0.009969	0.027912	0.000478	0.002991	0.063799	0.000030	0.006978	0.002193	0.000498	0.004984
18-Feb-2022	0.063166	7.007810	7.177280	3.788010	33.097527	0.009968	0.001994	0.009968	0.027912	0.000478	0.002991	0.063798	0.000030	0.006978	0.002193	0.000498	0.004984
19-Feb-2022	0.063166	7.100090	7.271790	3.837890	33.533356	0.010100	0.002020	0.010100	0.028279	0.000485	0.003030	0.064638	0.000030	0.007070	0.002222	0.000505	0.005050

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
20-Feb-2022	0.063161	7.208600	7.382920	3.896540	34.045826	0.010254	0.002051	0.010254	0.028711	0.000492	0.003076	0.065626	0.000031	0.007178	0.002256	0.000513	0.005127
21-Feb-2022	0.063146	7.317010	7.493950	3.955140	34.557840	0.010408	0.002082	0.010408	0.029143	0.000500	0.003122	0.066613	0.000031	0.007286	0.002290	0.000520	0.005204
22-Feb-2022	0.063124	7.320310	7.497330	3.956920	34.573411	0.010413	0.002083	0.010413	0.029156	0.000500	0.003124	0.066643	0.000031	0.007289	0.002291	0.000521	0.005206
23-Feb-2022	0.063176	7.389430	7.568120	3.994280	34.899852	0.010511	0.002102	0.010511	0.029432	0.000505	0.003153	0.067272	0.000032	0.007358	0.002312	0.000526	0.005256
24-Feb-2022	0.063110	7.478630	7.659480	4.042500	35.321154	0.010638	0.002128	0.010638	0.029787	0.000511	0.003191	0.068084	0.000032	0.007447	0.002340	0.000532	0.005319
25-Feb-2022	0.063077	7.292020	7.468350	3.941630	34.439806	0.010373	0.002075	0.010373	0.029044	0.000498	0.003112	0.066385	0.000031	0.007261	0.002282	0.000519	0.005186
26-Feb-2022	0.063062	7.412720	7.591980	4.006880	35.009894	0.010544	0.002109	0.010544	0.029524	0.000506	0.003163	0.067484	0.000032	0.007381	0.002320	0.000527	0.005272
27-Feb-2022	0.063081	7.526590	7.708600	4.068430	35.547690	0.010706	0.002141	0.010706	0.029978	0.000514	0.003212	0.068521	0.000032	0.007494	0.002355	0.000535	0.005353
28-Feb-2022	0.063102	7.634600	7.819220	4.126810	36.057800	0.010860	0.002172	0.010860	0.030408	0.000521	0.003258	0.069504	0.000033	0.007602	0.002389	0.000543	0.005430
1-Mar-2022	0.063116	7.717030	7.903640	4.171370	36.447126	0.010977	0.002195	0.010977	0.030736	0.000527	0.003293	0.070255	0.000033	0.007684	0.002415	0.000549	0.005489
2-Mar-2022	0.063128	7.805090	7.993830	4.218970	36.863028	0.011103	0.002221	0.011103	0.031087	0.000533	0.003331	0.071056	0.000033	0.007772	0.002443	0.000555	0.005551
3-Mar-2022	0.063131	7.772330	7.960280	4.201260	36.708297	0.011056	0.002211	0.011056	0.030957	0.000531	0.003317	0.070758	0.000033	0.007739	0.002432	0.000553	0.005528
4-Mar-2022	0.063125	7.668990	7.854450	4.145400	36.220225	0.010909	0.002182	0.010909	0.030545	0.000524	0.003273	0.069817	0.000033	0.007636	0.002400	0.000545	0.005454
5-Mar-2022	0.063122	7.815800	8.004800	4.224760	36.913614	0.011118	0.002224	0.011118	0.031130	0.000534	0.003335	0.071154	0.000033	0.007782	0.002446	0.000556	0.005559
6-Mar-2022	0.063118	7.947750	8.139950	4.296080	37.536789	0.011306	0.002261	0.011306	0.031655	0.000543	0.003392	0.072355	0.000034	0.007914	0.002487	0.000565	0.005653
7-Mar-2022	0.063107	8.069140	8.264270	4.361700	38.110123	0.011478	0.002296	0.011478	0.032139	0.000551	0.003443	0.073460	0.000034	0.008035	0.002525	0.000574	0.005739
8-Mar-2022	0.063095	8.181290	8.379130	4.422320	38.639795	0.011638	0.002328	0.011638	0.032586	0.000559	0.003491	0.074481	0.000035	0.008146	0.002560	0.000582	0.005819
9-Mar-2022	0.063120	7.069390	7.240340	3.821290	33.388339	0.010056	0.002011	0.010056	0.028157	0.000483	0.003017	0.064359	0.000030	0.007039	0.002212	0.000503	0.005028
10-Mar-2022	0.063113	7.273820	7.449710	3.931790	34.353840	0.010347	0.002069	0.010347	0.028971	0.000497	0.003104	0.066220	0.000031	0.007243	0.002276	0.000517	0.005173
11-Mar-2022	0.063109	7.382360	7.560880	3.990470	34.866508	0.010501	0.002100	0.010501	0.029403	0.000504	0.003150	0.067208	0.000032	0.007351	0.002310	0.000525	0.005251
12-Mar-2022	0.063108	7.479890	7.660770	4.043180	35.327101	0.010640	0.002128	0.010640	0.029792	0.000511	0.003192	0.068096	0.000032	0.007448	0.002341	0.000532	0.005320
13-Mar-2022	0.063107	7.499000	7.680340	4.053510	35.417357	0.010667	0.002133	0.010667	0.029868	0.000512	0.003200	0.068270	0.000032	0.007467	0.002347	0.000533	0.005334
14-Mar-2022	0.063107	7.521710	7.703610	4.065790	35.524633	0.010700	0.002140	0.010700	0.029959	0.000514	0.003210	0.068477	0.000032	0.007490	0.002354	0.000535	0.005350
15-Mar-2022	0.063106	7.551050	7.733650	4.081650	35.663207	0.010741	0.002148	0.010741	0.030075	0.000516	0.003222	0.068744	0.000032	0.007519	0.002363	0.000537	0.005371
16-Mar-2022	0.063103	7.589880	7.773420	4.102640	35.846602	0.010796	0.002159	0.010796	0.030230	0.000518	0.003239	0.069097	0.000032	0.007557	0.002375	0.000540	0.005398
17-Mar-2022	0.063099	7.703190	7.889460	4.163880	36.381723	0.010958	0.002192	0.010958	0.030681	0.000526	0.003287	0.070129	0.000033	0.007670	0.002411	0.000548	0.005479
18-Mar-2022	0.063089	7.882340	8.072950	4.260720	37.227848	0.011212	0.002242	0.011212	0.031395	0.000538	0.003364	0.071760	0.000034	0.007849	0.002467	0.000561	0.005606
19-Mar-2022	0.063077	7.910760	8.102050	4.276080	37.362065	0.011253	0.002251	0.011253	0.031508	0.000540	0.003376	0.072018	0.000034	0.007877	0.002476	0.000563	0.005626
20-Mar-2022	0.063068	7.941810	8.133860	4.292870	37.508738	0.011297	0.002259	0.011297	0.031632	0.000542	0.003389	0.072301	0.000034	0.007908	0.002485	0.000565	0.005649
21-Mar-2022	0.063062	7.978350	8.171280	4.312620	37.681309	0.011349	0.002270	0.011349	0.031777	0.000545	0.003405	0.072634	0.000034	0.007944	0.002497	0.000567	0.005675
22-Mar-2022	0.063061	8.024560	8.218610	4.337600	37.899563	0.011415	0.002283	0.011415	0.031961	0.000548	0.003424	0.073054	0.000034	0.007990	0.002511	0.000571	0.005707
23-Mar-2022	0.063063	8.076810	8.272130	4.365840	38.146324	0.011489	0.002298	0.011489	0.032169	0.000551	0.003447	0.073530	0.000034	0.008042	0.002528	0.000574	0.005745
24-Mar-2022	0.063063	8.138510	8.335310	4.399190	38.437724	0.011577	0.002315	0.011577	0.032415	0.000556	0.003473	0.074092	0.000035	0.008104	0.002547	0.000579	0.005788
25-Mar-2022	0.063065	8.197030	8.395250	4.430830	38.714142	0.011660	0.002332	0.011660	0.032648	0.000560	0.003498	0.074624	0.000035	0.008162	0.002565	0.000583	0.005830
26-Mar-2022	0.063073	8.256750	8.456410	4.463110	38.996192	0.011745	0.002349	0.011745	0.032886	0.000564	0.003524	0.075168	0.000035	0.008222	0.002584	0.000587	0.005873
27-Mar-2022	0.063078	8.322980	8.524240	4.498910	39.308992	0.011839	0.002368	0.011839	0.033150	0.000568	0.003552	0.075771	0.000036	0.008287	0.002605	0.000592	0.005920
28-Mar-2022	0.063076	8.395110	8.598120	4.537900	39.649662	0.011942	0.002388	0.011942	0.033437	0.000573	0.003583	0.076428	0.000036	0.008359	0.002627	0.000597	0.005971
29-Mar-2022	0.063076	8.472370	8.677250	4.579660	40.014548	0.012052	0.002410	0.012052	0.033745	0.000578	0.003616	0.077131	0.000036	0.008436	0.002651	0.000603	0.006026
30-Mar-2022	0.063083	8.554110	8.760970	4.623840	40.400586	0.012168	0.002434	0.012168	0.034070	0.000584	0.003650	0.077875	0.000037	0.008518	0.002677	0.000608	0.006084
31-Mar-2022	0.063092	8.640930	8.849880	4.670770	40.810633	0.012292	0.002458	0.012292	0.034416	0.000590	0.003687	0.078666	0.000037	0.008604	0.002704	0.000615	0.006146
1-Apr-2022	0.063100	8.733030	8.944220	4.720560	41.245642	0.012423	0.002485	0.012423	0.034783	0.000596	0.003727	0.079504	0.000037	0.008696	0.002733	0.000621	0.006211
2-Apr-2022	0.063108	8.822880	9.036240	4.769120	41.669968	0.012550	0.002510	0.012550	0.035141	0.000602	0.003765	0.080322	0.000038	0.008785	0.002761	0.000628	0.006275
3-Apr-2022	0.063114	8.892030	9.107060	4.806500	41.996566	0.012649	0.002530	0.012649	0.035416	0.000607	0.003795	0.080952	0.000038	0.008854	0.002783	0.000632	0.006324
4-Apr-2022	0.063115	8.941790	9.158020	4.833400	42.231591	0.012720	0.002544	0.012720	0.035615	0.000611	0.003816	0.081405	0.000038	0.008904	0.002798	0.000636	0.006360
5-Apr-2022	0.063116	8.976520	9.193590	4.852170	42.395607	0.012769	0.002554	0.012769	0.035753	0.000613	0.003831	0.081721	0.000038	0.008938	0.002809	0.000638	0.006384
6-Apr-2022	0.063118	8.999580	9.217210	4.864640	42.504539	0.012802	0.002560	0.012802	0.035845	0.000614	0.003841	0.081931	0.000038	0.008961	0.002816	0.000640	0.006401
7-Apr-2022	0.063122	9.012330	9.230260	4.871530	42.564749	0.012820	0.002564	0.012820	0.035896	0.000615	0.003846	0.082047	0.000038	0.008974	0.002820	0.000641	0.006410
8-Apr-2022	0.063125	9.017580	9.235640	4.874370	42.589553	0.012827	0.002565	0.012827	0.035916	0.000616	0.003848	0.082095	0.000038	0.008979	0.002822	0.000641	0.006414
9-Apr-2022	0.063126	9.018630	9.236720	4.874940	42.594522	0.012829	0.002566	0.012829	0.035921	0.000616	0.003849	0.082104	0.000038	0.008980	0.002822	0.000641	0.006414
10-Apr-2022	0.063126	9.016050	9.234080	4.873540	42.582315	0.012825	0.002565	0.012825	0.035910	0.000616	0.003848	0.082081	0.000038	0.008978	0.002822	0.000641	0.006413
11-Apr-2022	0.063126	9.010050	9.227930	4.870300	42.553990	0.012817	0.002563	0.012817	0.035886	0.000615	0.003845	0.082026	0.000038	0.008972	0.002820	0.000641	0.006408
12-Apr-2022	0.063124	9.000910	9.218570	4.865360	42.510825	0.012804	0.002561	0.012804	0.035850	0.000615	0.003841	0.081943	0.000038	0.008963	0.002817	0.000640	0.006402
13-Apr-2022	0.063122	8.989160	9.206540	4.859010	42.455336	0.012787	0.002557	0.012787	0.035803	0.000614	0.003836	0.081836	0.000038	0.008951	0.002813	0.000639	0.006393

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
14-Apr-2022	0.063120	8.975580	9.192630	4.851660	42.391159	0.012768	0.002554	0.012768	0.035749	0.000613	0.003830	0.081712	0.000038	0.008937	0.002809	0.000638	0.006384
15-Apr-2022	0.063115	8.960560	9.177250	4.843550	42.320257	0.012746	0.002549	0.012746	0.035689	0.000612	0.003824	0.081576	0.000038	0.008922	0.002804	0.000637	0.006373
16-Apr-2022	0.063110	8.944780	9.161090	4.835020	42.245728	0.012724	0.002545	0.012724	0.035627	0.000611	0.003817	0.081432	0.000038	0.008907	0.002799	0.000636	0.006362
17-Apr-2022	0.063106	8.928260	9.144160	4.826080	42.167663	0.012700	0.002540	0.012700	0.035561	0.000610	0.003810	0.081281	0.000038	0.008890	0.002794	0.000635	0.006350
18-Apr-2022	0.063101	8.911070	9.126560	4.816800	42.086524	0.012676	0.002535	0.012676	0.035492	0.000608	0.003803	0.081125	0.000038	0.008873	0.002789	0.000634	0.006338
19-Apr-2022	0.063095	8.893640	9.108710	4.807370	42.004169	0.012651	0.002530	0.012651	0.035423	0.000607	0.003795	0.080966	0.000038	0.008856	0.002783	0.000633	0.006325
20-Apr-2022	0.063092	8.876320	9.090970	4.798010	41.922376	0.012626	0.002525	0.012626	0.035354	0.000606	0.003788	0.080809	0.000038	0.008838	0.002778	0.000631	0.006313
21-Apr-2022	0.063089	8.859220	9.073450	4.788770	41.841627	0.012602	0.002520	0.012602	0.035286	0.000605	0.003781	0.080653	0.000038	0.008821	0.002772	0.000630	0.006301
22-Apr-2022	0.063088	8.842320	9.056140	4.779630	41.761789	0.012578	0.002516	0.012578	0.035218	0.000604	0.003773	0.080499	0.000038	0.008805	0.002767	0.000629	0.006289
23-Apr-2022	0.063088	8.825620	9.039050	4.770610	41.682945	0.012554	0.002511	0.012554	0.035152	0.000603	0.003766	0.080347	0.000038	0.008788	0.002762	0.000628	0.006277
24-Apr-2022	0.063090	8.809250	9.022270	4.761760	41.605625	0.012531	0.002506	0.012531	0.035087	0.000601	0.003759	0.080198	0.000038	0.008772	0.002757	0.000627	0.006265
25-Apr-2022	0.063092	8.793260	9.005900	4.753110	41.530077	0.012508	0.002502	0.012508	0.035023	0.000600	0.003752	0.080053	0.000038	0.008756	0.002752	0.000625	0.006254
26-Apr-2022	0.063095	8.777520	8.989770	4.744600	41.455730	0.012486	0.002497	0.012486	0.034960	0.000599	0.003746	0.079909	0.000037	0.008740	0.002747	0.000624	0.006243
27-Apr-2022	0.063097	8.761950	8.973830	4.736190	41.382220	0.012464	0.002493	0.012464	0.034898	0.000598	0.003739	0.079767	0.000037	0.008725	0.002742	0.000623	0.006232
28-Apr-2022	0.063098	8.746550	8.958060	4.727860	41.309463	0.012442	0.002488	0.012442	0.034837	0.000597	0.003733	0.079627	0.000037	0.008709	0.002737	0.000622	0.006221
29-Apr-2022	0.063099	8.731230	8.942370	4.719580	41.237112	0.012420	0.002484	0.012420	0.034776	0.000596	0.003726	0.079488	0.000037	0.008694	0.002732	0.000621	0.006210
30-Apr-2022	0.063113	8.716000	8.926770	4.711350	41.165191	0.012398	0.002480	0.012398	0.034715	0.000595	0.003719	0.079349	0.000037	0.008679	0.002728	0.000620	0.006199
1-May-2022	0.063267	8.700400	8.910790	4.702920	41.091523	0.012376	0.002475	0.012376	0.034653	0.000594	0.003713	0.079207	0.000037	0.008663	0.002723	0.000619	0.006188
2-May-2022	0.064176	8.681710	8.891650	4.692810	41.003221	0.012350	0.002470	0.012350	0.034579	0.000593	0.003705	0.079037	0.000037	0.008645	0.002717	0.000617	0.006175
3-May-2022	0.067724	8.645040	8.854100	4.673000	40.830079	0.012297	0.002459	0.012297	0.034433	0.000590	0.003689	0.078703	0.000037	0.008608	0.002705	0.000615	0.006149
4-May-2022	0.071732	8.570490	8.777740	4.632700	40.477972	0.012191	0.002438	0.012191	0.034136	0.000585	0.003657	0.078024	0.000037	0.008534	0.002682	0.000610	0.006096
5-May-2022	0.075884	8.463260	8.667920	4.574740	39.971540	0.012039	0.002408	0.012039	0.033709	0.000578	0.003612	0.077048	0.000036	0.008427	0.002649	0.000602	0.006019
6-May-2022	0.079316	8.363080	8.565320	4.520580	39.498359	0.011896	0.002379	0.011896	0.033310	0.000571	0.003569	0.076136	0.000036	0.008327	0.002617	0.000595	0.005948
7-May-2022	0.083093	8.228160	8.427130	4.447650	38.861138	0.011704	0.002341	0.011704	0.032772	0.000562	0.003511	0.074908	0.000035	0.008193	0.002575	0.000585	0.005852
8-May-2022	0.086191	8.083770	8.279250	4.369600	38.179186	0.011499	0.002300	0.011499	0.032197	0.000552	0.003450	0.073593	0.000034	0.008049	0.002530	0.000575	0.005749
9-May-2022	0.089441	7.932220	8.124040	4.287690	37.463461	0.011283	0.002257	0.011283	0.031594	0.000542	0.003385	0.072214	0.000034	0.007898	0.002482	0.000564	0.005642
10-May-2022	0.096260	7.783320	7.971530	4.207200	36.760200	0.011072	0.002214	0.011072	0.031000	0.000531	0.003321	0.070858	0.000033	0.007750	0.002436	0.000554	0.005536
11-May-2022	0.104454	7.633320	7.817910	4.126120	36.051762	0.010858	0.002172	0.010858	0.030403	0.000521	0.003257	0.069493	0.000033	0.007601	0.002389	0.000543	0.005429
12-May-2022	0.107028	7.477150	7.657960	4.041700	35.314164	0.010636	0.002127	0.010636	0.029781	0.000511	0.003191	0.068071	0.000032	0.007445	0.002340	0.000532	0.005318
13-May-2022	0.110225	7.291910	7.468250	3.941570	34.439285	0.010373	0.002075	0.010373	0.029043	0.000498	0.003112	0.066384	0.000031	0.007261	0.002282	0.000519	0.005186
14-May-2022	0.112920	7.154710	7.327730	3.867410	33.791305	0.010177	0.002035	0.010177	0.028497	0.000489	0.003053	0.065135	0.000031	0.007124	0.002239	0.000509	0.005089
15-May-2022	0.119361	6.982940	7.151800	3.774560	32.980039	0.009933	0.001987	0.009933	0.027813	0.000477	0.002980	0.063572	0.000030	0.006953	0.002185	0.000497	0.004967
16-May-2022	0.130291	6.843980	7.009480	3.699450	32.323753	0.009735	0.001947	0.009735	0.027259	0.000467	0.002921	0.062307	0.000029	0.006815	0.002142	0.000487	0.004868
17-May-2022	0.151969	6.715600	6.878000	3.630050	31.717399	0.009553	0.001911	0.009553	0.026748	0.000459	0.002866	0.061138	0.000029	0.006687	0.002102	0.000478	0.004776
18-May-2022	0.155315	6.578260	6.737340	3.555820	31.068782	0.009357	0.001871	0.009357	0.026201	0.000449	0.002807	0.059887	0.000028	0.006550	0.002059	0.000468	0.004679
19-May-2022	0.161490	6.429900	6.585390	3.475620	30.368063	0.009146	0.001829	0.009146	0.025610	0.000439	0.002744	0.058537	0.000027	0.006402	0.002012	0.000457	0.004573
20-May-2022	0.168537	6.052860	6.199220	3.271780	28.587181	0.008613	0.001722	0.008612	0.024110	0.000413	0.002583	0.055108	0.000026	0.006027	0.001894	0.000431	0.004305
21-May-2022	0.175212	6.029730	6.175520	3.259270	28.477910	0.008581	0.001716	0.008579	0.024019	0.000412	0.002573	0.054898	0.000026	0.006004	0.001887	0.000429	0.004289
22-May-2022	0.179710	6.012330	6.157690	3.249840	28.395629	0.008557	0.001711	0.008555	0.023950	0.000411	0.002566	0.054742	0.000026	0.005987	0.001882	0.000428	0.004276
23-May-2022	0.181139	5.951800	6.095660	3.217060	28.109498	0.008478	0.001694	0.008474	0.023713	0.000406	0.002540	0.054198	0.000025	0.005927	0.001863	0.000423	0.004233
24-May-2022	0.183367	5.778490	5.918120	3.123280	27.290557	0.008239	0.001645	0.008232	0.023028	0.000395	0.002466	0.052630	0.000025	0.005755	0.001809	0.000411	0.004110
25-May-2022	0.189174	5.527690	5.661260	2.987730	26.106114	0.007881	0.001574	0.007875	0.022029	0.000377	0.002359	0.050345	0.000024	0.005505	0.001730	0.000393	0.003932
26-May-2022	0.195039	5.341640	5.470710	2.887160	25.227400	0.007615	0.001521	0.007609	0.021288	0.000365	0.002280	0.048652	0.000023	0.005320	0.001672	0.000380	0.003800
27-May-2022	0.198112	5.243640	5.370350	2.834190	24.764564	0.007475	0.001493	0.007469	0.020897	0.000358	0.002238	0.047759	0.000022	0.005223	0.001641	0.000373	0.003730
28-May-2022	0.199416	5.215200	5.341050	2.818470	24.628814	0.007439	0.001485	0.007431	0.020803	0.000356	0.002226	0.047536	0.000022	0.005196	0.001633	0.000371	0.003711
29-May-2022	0.202453	5.170690	5.295630	2.794750	24.419993	0.007370	0.001472	0.007365	0.020607	0.000353	0.002207	0.047096	0.000022	0.005150	0.001618	0.000368	0.003678
30-May-2022	0.209063	5.479720	5.612160	2.961860	25.879800	0.007813	0.001560	0.007806	0.021835	0.000374	0.002339	0.049903	0.000023	0.005457	0.001715	0.000390	0.003898
31-May-2022	0.211159	5.338750	5.467780	2.885660	25.214007	0.007613	0.001520	0.007606	0.021273	0.000365	0.002278	0.048619	0.000023	0.005317	0.001671	0.000380	0.003797
1-Jun-2022	0.212289	5.241730	5.368420	2.833220	24.755800	0.019152	0.001608	0.007468	0.020887	0.000358	0.002237	0.047736	0.000022	0.005220	0.001641	0.000373	0.003728
2-Jun-2022	0.213927	5.183840	5.308860	2.801360	24.480049	0.025145	0.001901	0.007558	0.020763	0.000354	0.002213	0.047358	0.000022	0.005166	0.001623	0.000369	0.003689
3-Jun-2022	0.215932	5.263690	5.389520	2.842220	24.847696	0.029812	0.002108	0.012695	0.021427	0.000360	0.002248	0.048557	0.000024	0.005268	0.001652	0.000379	0.003789
4-Jun-2022	0.248043	5.244410	5.363980	2.820770	24.711223	0.030322	0.002404	0.019641	0.022147	0.000359	0.002245	0.049886	0.000025	0.005323	0.001659	0.000388	0.003883
5-Jun-2022	0.267414	5.148810	5.266730	2.770060	24.263686	0.040195	0.002983	0.027554	0.022609	0.000352	0.002204	0.050430	0.000026	0.005237	0.001628	0.000391	0.003909

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
6-Jun-2022	0.322757	4.907320	5.014440	2.629130	23.080335	0.054010	0.003383	0.033156	0.021733	0.000339	0.002106	0.048172	0.000026	0.005045	0.001565	0.000375	0.003748
7-Jun-2022	0.377340	4.641810	4.730830	2.460610	21.723392	0.067554	0.004231	0.042745	0.022131	0.000325	0.002004	0.048102	0.000026	0.004932	0.001512	0.000375	0.003750
8-Jun-2022	0.465815	4.318280	4.395670	2.283750	20.187228	0.096638	0.005765	0.062156	0.022655	0.000312	0.001876	0.047992	0.000026	0.004744	0.001435	0.000375	0.003752
9-Jun-2022	0.582509	4.111110	4.182890	2.163690	19.175517	0.110108	0.006412	0.070387	0.022951	0.000299	0.001782	0.047502	0.000027	0.004570	0.001366	0.000372	0.003724
10-Jun-2022	0.764117	3.849340	3.900090	1.991010	17.810781	0.151268	0.008193	0.081154	0.024832	0.000331	0.001685	0.048031	0.000028	0.004474	0.001321	0.000375	0.003753
11-Jun-2022	0.972387	3.746830	3.793170	1.931710	17.310616	0.195840	0.010422	0.084061	0.025832	0.000435	0.001643	0.054468	0.000029	0.004453	0.001304	0.000376	0.003762
12-Jun-2022	1.190526	3.679070	3.721620	1.892290	16.979088	0.217000	0.011511	0.085355	0.025743	0.000521	0.001619	0.058993	0.000029	0.004445	0.001296	0.000377	0.003765
13-Jun-2022	1.405659	3.642930	3.681950	1.869840	16.796397	0.245145	0.012939	0.106352	0.026067	0.000603	0.001604	0.063727	0.000030	0.004597	0.001295	0.000378	0.003782
14-Jun-2022	1.601939	3.597010	3.632530	1.836650	16.545059	0.263953	0.013886	0.121339	0.026468	0.000645	0.001586	0.066431	0.000031	0.004683	0.001313	0.000381	0.003809
15-Jun-2022	1.782432	3.548510	3.578900	1.804150	16.290119	0.275119	0.014441	0.128321	0.026809	0.000657	0.001569	0.067500	0.000032	0.004713	0.001317	0.000385	0.003848
16-Jun-2022	1.975938	3.499300	3.524430	1.771230	16.031677	0.291188	0.015235	0.138068	0.027064	0.000659	0.001556	0.067895	0.000032	0.004710	0.001312	0.000387	0.003872
17-Jun-2022	2.211085	3.453710	3.473130	1.740110	15.789687	0.306238	0.015978	0.146973	0.027317	0.000660	0.001543	0.068250	0.000032	0.004710	0.001309	0.000389	0.003892
18-Jun-2022	2.485222	3.413240	3.426360	1.709940	15.564393	0.311420	0.016229	0.150704	0.027422	0.000649	0.001531	0.067731	0.000032	0.004690	0.001303	0.000390	0.003901
19-Jun-2022	2.748518	3.379620	3.387330	1.686410	15.383548	0.307061	0.016000	0.145463	0.027326	0.000623	0.001518	0.066362	0.000032	0.004630	0.001285	0.000389	0.003886
20-Jun-2022	3.014266	3.349170	3.351170	1.662620	15.209547	0.342847	0.017767	0.165550	0.028237	0.000693	0.001503	0.070593	0.000033	0.004696	0.001293	0.000391	0.003905
21-Jun-2022	3.261752	3.316220	3.313240	1.638760	15.029015	0.373004	0.019271	0.180908	0.029783	0.000760	0.001488	0.075455	0.000035	0.004859	0.001325	0.000406	0.004056
22-Jun-2022	3.466268	3.289520	3.282750	1.615600	14.866972	0.407980	0.021002	0.184281	0.031715	0.000796	0.001476	0.079114	0.000037	0.005031	0.001363	0.000423	0.004232
23-Jun-2022	3.664422	3.267530	3.256970	1.603620	14.762730	0.443362	0.022764	0.199744	0.032667	0.000842	0.001467	0.082329	0.000038	0.005115	0.001378	0.000434	0.004338
24-Jun-2022	3.813983	3.248680	3.234240	1.594640	14.678681	0.469090	0.024059	0.219979	0.032976	0.000907	0.001460	0.085862	0.000039	0.005190	0.001383	0.000435	0.004355
25-Jun-2022	3.950170	3.232870	3.217590	1.583300	14.592506	0.469375	0.024071	0.219749	0.033008	0.000906	0.001455	0.085868	0.000039	0.005185	0.001384	0.000435	0.004355
26-Jun-2022	4.183140	3.227310	3.214420	1.577100	14.553091	0.476626	0.024423	0.221706	0.033230	0.000884	0.001456	0.084972	0.000039	0.005163	0.001377	0.000437	0.004370
27-Jun-2022	4.449777	3.238200	3.226360	1.575340	14.573036	0.480996	0.024643	0.224356	0.033409	0.000890	0.001464	0.085466	0.000039	0.005185	0.001377	0.000439	0.004392
28-Jun-2022	4.649696	3.236880	3.225330	1.574370	14.565745	0.493424	0.025270	0.237019	0.033305	0.000923	0.001464	0.087036	0.000039	0.005221	0.001386	0.000439	0.004386
29-Jun-2022	4.736892	3.230150	3.216220	1.571010	14.535104	0.500350	0.025623	0.248503	0.032855	0.000960	0.001458	0.088427	0.000039	0.005232	0.001387	0.000434	0.004343
30-Jun-2022	4.910088	3.221440	3.205020	1.565780	14.491818	0.496173	0.025413	0.245824	0.032792	0.000964	0.001453	0.088564	0.000039	0.005225	0.001384	0.000434	0.004335
1-Jul-2022	6.737204	3.106940	3.081390	1.478620	13.846986	0.366248	0.018953	0.196358	0.027894	0.000690	0.001400	0.071596	0.000035	0.004716	0.001290	0.000396	0.003959
2-Jul-2022	7.024571	3.325500	3.528140	1.477220	14.386965	0.368142	0.019037	0.209298	0.027172	0.000686	0.001371	0.070878	0.000050	0.004681	0.001379	0.000423	0.004226
3-Jul-2022	7.829666	3.275000	3.445270	1.456660	14.176201	0.308300	0.016026	0.176044	0.026025	0.000606	0.001359	0.066502	0.000049	0.004545	0.001360	0.000418	0.004177
4-Jul-2022	8.400139	3.249260	3.408760	1.449020	14.080467	0.275675	0.014041	0.153149	0.025346	0.000558	0.001353	0.063219	0.000048	0.004477	0.001346	0.000413	0.004126
5-Jul-2022	8.952485	3.352240	3.596740	1.463410	14.396866	0.309161	0.015490	0.172072	0.025978	0.000644	0.001354	0.067499	0.000055	0.004631	0.001410	0.000429	0.004287
6-Jul-2022	9.655159	3.301340	3.504630	1.456400	14.240901	0.307252	0.015214	0.168297	0.025907	0.000635	0.001353	0.066684	0.000051	0.004623	0.001379	0.000421	0.004206
7-Jul-2022	10.146001	3.740020	4.304430	1.521830	15.605726	0.340670	0.015160	0.167052	0.025969	0.000642	0.001362	0.066353	0.000078	0.004792	0.001647	0.000488	0.004878
8-Jul-2022	11.051039	3.446730	3.768180	1.476740	14.687700	0.342822	0.015463	0.170056	0.026156	0.000684	0.001356	0.066777	0.000061	0.004755	0.001469	0.000444	0.004435
9-Jul-2022	11.407417	4.131440	5.024130	1.581750	16.829852	0.414950	0.015475	0.169808	0.026120	0.000733	0.001369	0.066908	0.000103	0.005074	0.001884	0.000549	0.005488
10-Jul-2022	11.972593	3.868170	4.543340	1.541750	16.007747	0.367192	0.015150	0.163972	0.025963	0.000657	0.001364	0.066006	0.000087	0.004876	0.001724	0.000509	0.005089
11-Jul-2022	13.015143	3.776810	4.398450	1.530190	15.732017	0.360040	0.015393	0.162691	0.025960	0.000659	0.001361	0.066647	0.000083	0.004773	0.001663	0.000501	0.005012
12-Jul-2022	13.378934	3.839940	4.490050	1.536310	15.914855	0.376166	0.014261	0.151436	0.025872	0.000692	0.001363	0.062742	0.000086	0.004873	0.001708	0.000506	0.005060
13-Jul-2022	13.926220	4.409060	5.538820	1.624420	17.698784	0.470608	0.014445	0.155118	0.026087	0.000825	0.001374	0.063460	0.000121	0.005263	0.002051	0.000594	0.005936
14-Jul-2022	14.648051	4.130070	5.028060	1.582210	16.828326	0.418376	0.014487	0.155042	0.025698	0.000738	0.001369	0.063641	0.000104	0.005055	0.001881	0.000551	0.005508
15-Jul-2022	15.394028	4.104500	4.980830	1.578320	16.748458	0.413948	0.014261	0.149980	0.025638	0.000731	0.001369	0.063043	0.000102	0.005036	0.001866	0.000547	0.005469
16-Jul-2022	15.733282	4.077310	4.929340	1.573590	16.661087	0.409835	0.015191	0.162722	0.026091	0.000739	0.001368	0.064995	0.000100	0.005020	0.001850	0.000543	0.005428
17-Jul-2022	16.247484	4.449360	5.615250	1.630920	17.826180	0.480422	0.015703	0.168901	0.026231	0.000841	0.001375	0.066375	0.000124	0.005284	0.002075	0.000601	0.006010
18-Jul-2022	17.427936	4.186660	5.133350	1.591110	17.006281	0.431289	0.016902	0.182731	0.026538	0.000791	0.001370	0.069801	0.000107	0.005090	0.001915	0.000561	0.005606
19-Jul-2022	17.765051	4.381900	5.493970	1.620430	17.614535	0.474479	0.015815	0.169590	0.026278	0.000832	0.001374	0.066340	0.000120	0.005228	0.002034	0.000593	0.005931
20-Jul-2022	18.227362	4.575950	5.847210	1.649870	18.220312	0.507876	0.014982	0.158767	0.026172	0.000888	0.001378	0.063647	0.000132	0.005375	0.002152	0.000622	0.006218
21-Jul-2022	18.040095	4.471140	5.653410	1.633450	17.890984	0.490285	0.014572	0.155804	0.026032	0.000861	0.001376	0.062536	0.000126	0.005302	0.002089	0.000606	0.006060
22-Jul-2022	17.825791	4.343270	5.417700	1.613640	17.490115	0.468506	0.015044	0.161596	0.026042	0.000847	0.001373	0.063888	0.000118	0.005210	0.002012	0.000587	0.005867
23-Jul-2022	17.172213	4.444690	5.599370	1.628270	17.803607	0.492073	0.015193	0.163408	0.026058	0.000869	0.001376	0.064344	0.000124	0.005294	0.002076	0.000603	0.006032
24-Jul-2022	16.635478	4.555720	5.804220	1.645560	18.152049	0.512004	0.015741	0.170185	0.026160	0.000901	0.001378	0.065999	0.000131	0.005372	0.002142	0.000620	0.006203
25-Jul-2022	16.246789	4.588910	5.866680	1.650990	18.257285	0.518221	0.015820	0.169245	0.026151	0.000910	0.001379	0.066264	0.000133	0.005392	0.002162	0.000626	0.006257
26-Jul-2022	16.001861	4.598340	5.884050	1.652500	18.287050	0.521202	0.015668	0.167655	0.026138	0.000916	0.001379	0.065633	0.000134	0.005397	0.002167	0.000628	0.006276
27-Jul-2022	16.499870	4.678280	6.031930	1.664930	18.537847	0.537296	0.016291	0.176075	0.026214	0.000943	0.001380	0.067477	0.000139	0.005453	0.002216	0.000640	0.006404
28-Jul-2022	16.660393	4.767180	6.193660	1.678400	18.815300	0.553323	0.016583	0.179988	0.026341	0.000970	0.001382	0.068346	0.000145	0.005519	0.002270	0.000654	0.006538

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
29-Jul-2022	16.678842	5.092810	6.789010	1.727970	19.832527	0.613302	0.016116	0.173200	0.026802	0.001069	0.001389	0.066707	0.000164	0.005762	0.002467	0.000704	0.007035
30-Jul-2022	17.581121	5.032280	6.688730	1.720290	19.649757	0.606122	0.016281	0.172209	0.026567	0.001053	0.001387	0.067093	0.000162	0.005691	0.002428	0.000697	0.006970
31-Jul-2022	16.450874	5.084120	6.777950	1.727230	19.807781	0.614133	0.016047	0.171087	0.026694	0.001069	0.001389	0.065905	0.000164	0.005743	0.002461	0.000704	0.007036
1-Aug-2022	15.651689	5.007080	6.636160	1.715490	19.567067	0.601327	0.015861	0.169329	0.026569	0.001050	0.001387	0.065661	0.000160	0.005686	0.002414	0.000692	0.006922
2-Aug-2022	15.514303	5.174790	6.946100	1.741570	20.093236	0.631640	0.015882	0.169843	0.026740	0.001102	0.001390	0.066042	0.000170	0.005802	0.002515	0.000719	0.007187
3-Aug-2022	15.509093	5.198770	6.988110	1.745170	20.167939	0.635997	0.016409	0.176689	0.026784	0.001110	0.001391	0.067800	0.000172	0.005823	0.002530	0.000722	0.007220
4-Aug-2022	15.474763	5.328270	7.228410	1.765530	20.575143	0.658870	0.016346	0.175778	0.026915	0.001150	0.001394	0.067788	0.000180	0.005910	0.002607	0.000743	0.007427
5-Aug-2022	15.116311	5.213530	7.018140	1.748230	20.217396	0.638881	0.016186	0.173635	0.026711	0.001119	0.001392	0.067872	0.000173	0.005823	0.002538	0.000726	0.007256
6-Aug-2022	15.169583	5.291880	7.165550	1.760740	20.464552	0.651901	0.016457	0.177218	0.026731	0.001141	0.001393	0.068372	0.000178	0.005870	0.002584	0.000738	0.007383
7-Aug-2022	14.211732	5.351470	7.273710	1.769920	20.651151	0.663623	0.016596	0.178409	0.026800	0.001164	0.001394	0.068511	0.000182	0.005914	0.002620	0.000748	0.007476
8-Aug-2022	13.683791	5.287310	7.156750	1.760530	20.452276	0.652374	0.016482	0.176693	0.026646	0.001148	0.001393	0.068355	0.000178	0.005863	0.002581	0.000738	0.007382
9-Aug-2022	12.753314	5.323720	7.221670	1.766280	20.566870	0.660656	0.016513	0.176795	0.026670	0.001166	0.001394	0.068209	0.000181	0.005890	0.002603	0.000744	0.007445
10-Aug-2022	12.265458	5.389190	7.341460	1.776510	20.772476	0.673015	0.016495	0.176381	0.026731	0.001190	0.001396	0.068490	0.000185	0.005937	0.002643	0.000755	0.007549
11-Aug-2022	11.831851	5.414020	7.388820	1.780710	20.851772	0.676952	0.016408	0.175108	0.026724	0.001196	0.001396	0.068659	0.000187	0.005950	0.002657	0.000759	0.007591
12-Aug-2022	11.379358	5.466150	7.485950	1.789070	21.016367	0.686100	0.016530	0.176767	0.026754	0.001212	0.001397	0.069669	0.000190	0.005983	0.002688	0.000767	0.007674
13-Aug-2022	11.117538	5.519850	7.586150	1.797730	21.186118	0.695597	0.016526	0.176643	0.026789	0.001229	0.001398	0.069164	0.000193	0.006017	0.002720	0.000776	0.007762
14-Aug-2022	10.762601	5.591910	7.718540	1.809060	21.412708	0.709072	0.016612	0.176266	0.026853	0.001255	0.001400	0.068639	0.000198	0.006067	0.002763	0.000788	0.007878
15-Aug-2022	10.068881	5.637930	7.803770	1.816410	21.557888	0.717377	0.016683	0.176977	0.026882	0.001270	0.001401	0.068313	0.000201	0.006097	0.002791	0.000795	0.007952
16-Aug-2022	9.491821	5.721580	7.958040	1.829440	21.820419	0.732318	0.016808	0.178201	0.026967	0.001296	0.001403	0.069343	0.000206	0.006155	0.002841	0.000808	0.008082
17-Aug-2022	10.085892	5.764780	8.037670	1.836200	21.956127	0.739954	0.016869	0.178793	0.027012	0.001309	0.001404	0.069620	0.000209	0.006185	0.002867	0.000815	0.008150
18-Aug-2022	10.573604	5.749670	8.021540	1.835690	21.916297	0.734981	0.016682	0.176821	0.026812	0.001305	0.001403	0.070036	0.000209	0.006144	0.002854	0.000815	0.008153
19-Aug-2022	11.257317	6.049350	8.563180	1.880630	22.849661	0.790916	0.017293	0.182902	0.027291	0.001401	0.001409	0.069299	0.000227	0.006380	0.003038	0.000860	0.008600
20-Aug-2022	10.979911	6.030710	8.527240	1.877910	22.791916	0.787826	0.017283	0.182872	0.027257	0.001398	0.001409	0.070770	0.000226	0.006368	0.003027	0.000857	0.008571
21-Aug-2022	10.228894	6.055240	8.573930	1.882060	22.870257	0.792024	0.017301	0.183065	0.027244	0.001407	0.001409	0.069710	0.000228	0.006381	0.003041	0.000861	0.008614
22-Aug-2022	9.901945	5.993720	8.462780	1.873170	22.680033	0.780320	0.017163	0.181658	0.027105	0.001388	0.001408	0.069351	0.000224	0.006330	0.003003	0.000852	0.008523
23-Aug-2022	9.224847	5.984290	8.447340	1.872200	22.652492	0.778059	0.017111	0.181090	0.027035	0.001384	0.001408	0.070392	0.000224	0.006317	0.002996	0.000851	0.008512
24-Aug-2022	8.425116	6.030640	8.533180	1.879670	22.798989	0.786252	0.017172	0.181688	0.027059	0.001400	0.001409	0.070467	0.000227	0.006347	0.003024	0.000859	0.008588
25-Aug-2022	7.589045	6.069010	8.604630	1.885940	22.920619	0.792937	0.017217	0.182118	0.027072	0.001413	0.001410	0.070321	0.000229	0.006370	0.003047	0.000865	0.008650
26-Aug-2022	7.103211	6.119200	8.697780	1.893960	23.078970	0.801757	0.017282	0.182738	0.027105	0.001429	0.001411	0.070664	0.000232	0.006403	0.003076	0.000873	0.008731
27-Aug-2022	6.962511	6.169650	8.791310	1.902010	23.238093	0.810576	0.017346	0.183349	0.027143	0.001445	0.001412	0.070902	0.000236	0.006436	0.003106	0.000881	0.008811
28-Aug-2022	7.090440	6.189590	8.830180	1.905510	23.302296	0.813510	0.017333	0.183159	0.027110	0.001451	0.001412	0.072426	0.000237	0.006444	0.003118	0.000885	0.008846
29-Aug-2022	7.102274	6.218290	8.883180	1.910230	23.393397	0.818476	0.017368	0.183489	0.027121	0.001461	0.001413	0.072402	0.000239	0.006462	0.003135	0.000889	0.008892
30-Aug-2022	6.849670	6.254590	8.950090	1.915980	23.507717	0.824855	0.017419	0.183980	0.027153	0.001472	0.001414	0.072749	0.000241	0.006487	0.003156	0.000895	0.008949
31-Aug-2022	6.915418	6.215950	8.879500	1.910440	23.388419	0.817426	0.017330	0.183042	0.027072	0.001461	0.001413	0.072437	0.000239	0.006456	0.003132	0.000889	0.008892
1-Sep-2022	7.347357	6.337050	9.107740	1.929700	23.770118	0.838625	0.017467	0.184357	0.027172	0.001497	0.001415	0.073195	0.000247	0.006531	0.003204	0.000909	0.009091
2-Sep-2022	6.849132	6.464250	9.336680	1.948310	24.164373	0.862294	0.017726	0.186927	0.027352	0.001539	0.001418	0.073686	0.000254	0.006633	0.003283	0.000928	0.009275
3-Sep-2022	6.699301	6.702290	9.774680	1.983970	24.905607	0.906166	0.018147	0.191156	0.027664	0.001612	0.001422	0.073201	0.000269	0.006807	0.003428	0.000964	0.009641
4-Sep-2022	6.078647	6.522440	9.446800	1.956600	24.343811	0.873343	0.017819	0.187868	0.027365	0.001559	0.001418	0.073726	0.000258	0.006670	0.003318	0.000937	0.009368
5-Sep-2022	5.397900	6.611420	9.611580	1.969720	24.620023	0.889946	0.017978	0.189474	0.027468	0.001588	0.001418	0.073578	0.000264	0.006734	0.003373	0.000951	0.009506
6-Sep-2022	5.486218	6.721090	9.811870	1.986340	24.962310	0.910054	0.018176	0.191463	0.027619	0.001622	0.001421	0.073619	0.000271	0.006816	0.003439	0.000967	0.009673
7-Sep-2022	5.728911	6.781360	9.926510	1.994770	25.147519	0.921440	0.018268	0.192373	0.027646	0.001642	0.001420	0.073616	0.000275	0.006855	0.003476	0.000977	0.009768
8-Sep-2022	5.103657	6.709580	9.793370	1.984200	24.924757	0.908367	0.018150	0.191195	0.027542	0.001623	0.001419	0.073903	0.000270	0.006803	0.003433	0.000966	0.009659
9-Sep-2022	4.341157	7.165890	10.627400	2.053280	26.348634	0.991923	0.018972	0.199407	0.028193	0.001763	0.001428	0.073911	0.000298	0.007145	0.003710	0.001035	0.010353
10-Sep-2022	3.533506	6.865180	10.081400	2.007390	25.408786	0.937207	0.018422	0.193936	0.027715	0.001672	0.001421	0.073052	0.000280	0.006914	0.003528	0.000990	0.009900
11-Sep-2022	4.124092	6.813270	9.987990	1.999600	25.247088	0.927749	0.018323	0.192953	0.027649	0.001655	0.001421	0.073206	0.000277	0.006873	0.003496	0.000982	0.009823
12-Sep-2022	4.128361	7.404340	11.069600	2.088570	27.089368	1.036030	0.019377	0.203431	0.028455	0.001837	0.001431	0.074473	0.000313	0.007313	0.003856	0.001072	0.010721
13-Sep-2022	3.502987	7.004590	10.341700	2.027820	25.841024	0.963111	0.018649	0.196156	0.027830	0.001717	0.001422	0.074125	0.000289	0.007009	0.003613	0.001012	0.010117
14-Sep-2022	2.806024	7.082110	10.484100	2.039560	26.082937	0.977427	0.018789	0.197579	0.027927	0.001741	0.001423	0.073648	0.000294	0.007066	0.003660	0.001024	0.010236
15-Sep-2022	2.739109	7.108590	10.534000	2.043490	26.165241	0.982125	0.018821	0.197862	0.027938	0.001749	0.001423	0.074371	0.000296	0.007083	0.003676	0.001028	0.010277
16-Sep-2022	2.026073	7.201940	10.706600	2.057300	26.455206	0.999535	0.018989	0.199555	0.028051	0.001779	0.001425	0.074489	0.000301	0.007150	0.003733	0.001042	0.010421
17-Sep-2022	1.293814	7.249170	10.794500	2.064270	26.601841	1.008400	0.019072	0.200399	0.028093	0.001794	0.001425	0.074336	0.000304	0.007182	0.003761	0.001050	0.010495
18-Sep-2022	0.789245	7.306940	10.900800	2.073110	26.782496	1.018920	0.019169	0.201362	0.028163	0.001812	0.001426	0.074318	0.000308	0.007224	0.003796	0.001058	0.010584
19-Sep-2022	0.762051	7.322220	10.929300	2.075400	26.830081	1.021780	0.019196	0.201638	0.028186	0.001816	0.001427	0.074348	0.000309	0.007234	0.003806	0.001061	0.010608

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
20-Sep-2022	0.599008	7.281380	10.856500	2.069030	26.701871	1.014160	0.019101	0.200654	0.028076	0.001804	0.001425	0.074673	0.000307	0.007200	0.003781	0.001055	0.010547
21-Sep-2022	0.489593	7.319020	10.927500	2.074360	26.817807	1.021460	0.019172	0.201341	0.028086	0.001820	0.001425	0.075520	0.000309	0.007226	0.003804	0.001061	0.010606
22-Sep-2022	0.657328	7.376670	11.034300	2.082810	26.996557	1.032300	0.019272	0.202359	0.028130	0.001844	0.001425	0.075825	0.000313	0.007266	0.003839	0.001070	0.010696
23-Sep-2022	0.746029	7.343310	10.972900	2.077930	26.893161	1.026120	0.019211	0.201761	0.028086	0.001828	0.001425	0.075800	0.000311	0.007241	0.003819	0.001065	0.010645
24-Sep-2022	0.907029	7.419720	11.115300	2.089110	27.129996	1.040410	0.019343	0.203089	0.028161	0.001853	0.001425	0.075866	0.000316	0.007294	0.003865	0.001076	0.010764
25-Sep-2022	0.899269	7.629250	11.501800	2.120310	27.781674	1.078970	0.019707	0.206730	0.028434	0.001916	0.001428	0.075740	0.000329	0.007446	0.003993	0.001109	0.011085
26-Sep-2022	0.616187	7.777210	11.774500	2.142500	28.242508	1.106410	0.019975	0.209421	0.028623	0.001962	0.001430	0.075794	0.000338	0.007553	0.004083	0.001131	0.011313
27-Sep-2022	0.123546	7.778560	11.777500	2.142820	28.247197	1.106730	0.019977	0.209452	0.028613	0.001963	0.001430	0.075821	0.000338	0.007553	0.004084	0.001132	0.011316
28-Sep-2022	0.334015	7.691240	11.615800	2.130120	27.976860	1.090320	0.019815	0.207806	0.028494	0.001936	0.001429	0.075601	0.000333	0.007489	0.004030	0.001118	0.011181
29-Sep-2022	0.033107	7.862710	11.935200	2.155150	28.508095	1.122210	0.020105	0.210690	0.028674	0.001989	0.001431	0.076040	0.000343	0.007609	0.004135	0.001145	0.011447
30-Sep-2022	0.031894	7.777150	11.778400	2.142370	28.241823	1.106670	0.019958	0.209228	0.028537	0.001964	0.001429	0.075882	0.000338	0.007545	0.004083	0.001132	0.011317
1-Oct-2022	0.078553	7.759200	11.746400	2.139170	28.183824	1.103500	0.019919	0.208787	0.028488	0.001961	0.001428	0.076046	0.000337	0.007531	0.004072	0.001129	0.011290
2-Oct-2022	0.086571	7.731220	11.695300	2.135010	28.096828	1.098290	0.019866	0.208275	0.028453	0.001951	0.001428	0.076297	0.000335	0.007510	0.004055	0.001125	0.011247
3-Oct-2022	0.031982	7.692190	11.623500	2.129240	27.975609	1.091080	0.019797	0.207587	0.028403	0.001939	0.001428	0.076128	0.000333	0.007481	0.004031	0.001119	0.011187
4-Oct-2022	0.023760	7.650550	11.545900	2.123660	27.848655	1.083100	0.019720	0.206832	0.028363	0.001925	0.001427	0.076153	0.000330	0.007451	0.004005	0.001112	0.011122
5-Oct-2022	0.008573	7.626240	11.501000	2.120070	27.773170	1.078640	0.019678	0.206427	0.028332	0.001918	0.001427	0.075924	0.000329	0.007433	0.003991	0.001108	0.011084
6-Oct-2022	0.228734	7.615890	11.482200	2.118310	27.740078	1.076850	0.019661	0.206264	0.028314	0.001916	0.001427	0.075831	0.000328	0.007426	0.003985	0.001107	0.011068
7-Oct-2022	0.260390	7.600930	11.454600	2.116060	27.693457	1.074100	0.019635	0.206008	0.028294	0.001911	0.001427	0.075758	0.000327	0.007415	0.003975	0.001104	0.011045
8-Oct-2022	0.192997	7.575800	11.408300	2.112510	27.616089	1.069280	0.019584	0.205494	0.028268	0.001902	0.001426	0.075722	0.000326	0.007396	0.003960	0.001101	0.011005
9-Oct-2022	0.055439	7.556870	11.373800	2.109640	27.557002	1.065770	0.019547	0.205130	0.028244	0.001896	0.001425	0.076125	0.000325	0.007382	0.003948	0.001098	0.010976
10-Oct-2022	0.055501	7.537270	11.337900	2.106620	27.495624	1.062230	0.019514	0.204810	0.028216	0.001890	0.001425	0.075553	0.000323	0.007368	0.003937	0.001095	0.010945
11-Oct-2022	0.045871	7.505860	11.280400	2.101590	27.396480	1.056730	0.019465	0.204350	0.028168	0.001883	0.001424	0.075650	0.000321	0.007345	0.003918	0.001090	0.010897
12-Oct-2022	0.267086	7.497230	11.265800	2.100050	27.368589	1.055020	0.019437	0.204047	0.028154	0.001878	0.001423	0.075780	0.000321	0.007337	0.003913	0.001088	0.010883
13-Oct-2022	0.153069	7.494620	11.262000	2.099470	27.359684	1.054660	0.019431	0.203980	0.028148	0.001878	0.001423	0.075861	0.000321	0.007335	0.003911	0.001088	0.010879
14-Oct-2022	0.049385	7.482110	11.239000	2.097430	27.320045	1.052380	0.019408	0.203763	0.028127	0.001874	0.001423	0.075381	0.000320	0.007326	0.003904	0.001086	0.010860
15-Oct-2022	0.036099	7.465940	11.208800	2.095090	27.270033	1.049420	0.019383	0.203516	0.028106	0.001870	0.001422	0.075364	0.000319	0.007314	0.003894	0.001083	0.010835
16-Oct-2022	0.035840	7.461490	11.200800	2.094410	27.256121	1.048590	0.019374	0.203429	0.028102	0.001868	0.001423	0.075177	0.000319	0.007311	0.003891	0.001083	0.010828
17-Oct-2022	0.036834	7.513460	11.270100	2.112800	27.461620	1.054680	0.019528	0.205098	0.028368	0.001879	0.001437	0.076154	0.000320	0.007368	0.003916	0.001090	0.010901
18-Oct-2022	0.037045	7.578870	11.368100	2.131060	27.700143	1.063870	0.019699	0.206882	0.028611	0.001895	0.001450	0.077296	0.000323	0.007432	0.003950	0.001100	0.010996
19-Oct-2022	0.036537	7.644960	11.467500	2.149520	27.941188	1.073180	0.019870	0.208679	0.028859	0.001912	0.001463	0.078351	0.000326	0.007496	0.003984	0.001109	0.011092
20-Oct-2022	0.035959	7.685910	11.529500	2.160630	28.089192	1.079070	0.019976	0.209787	0.029006	0.001923	0.001469	0.079278	0.000328	0.007537	0.004006	0.001115	0.011151
21-Oct-2022	0.035197	7.735070	11.603600	2.174450	28.268855	1.086030	0.020104	0.211129	0.029192	0.001935	0.001478	0.079727	0.000330	0.007584	0.004032	0.001122	0.011223
22-Oct-2022	0.035257	7.713910	11.574100	2.167580	28.187728	1.083300	0.020085	0.211665	0.029094	0.001930	0.001487	0.080140	0.000329	0.007562	0.004021	0.001119	0.011193
23-Oct-2022	0.035429	7.710530	11.570700	2.167340	28.178300	1.083040	0.020189	0.212718	0.029162	0.001935	0.001494	0.080412	0.000329	0.007557	0.004020	0.001119	0.011188
24-Oct-2022	0.035466	7.709240	11.568700	2.179800	28.226389	1.082880	0.020296	0.213805	0.029326	0.001946	0.001501	0.080703	0.000329	0.007580	0.004019	0.001119	0.011186
25-Oct-2022	0.035555	7.716240	11.578800	2.193700	28.301108	1.083800	0.020420	0.215086	0.029511	0.001958	0.001510	0.081110	0.000329	0.007629	0.004023	0.001120	0.011196
26-Oct-2022	0.035908	7.735470	11.608100	2.195330	28.355838	1.086580	0.020406	0.214817	0.029524	0.001957	0.001508	0.080636	0.000330	0.007638	0.004033	0.001122	0.011224
27-Oct-2022	0.036699	7.756490	11.622600	2.202330	28.437150	1.087900	0.020458	0.215316	0.029614	0.001963	0.001511	0.080661	0.000331	0.007665	0.004038	0.001124	0.011239
28-Oct-2022	0.037867	7.802490	11.633900	2.215690	28.607029	1.090950	0.020585	0.216655	0.029794	0.001975	0.001520	0.081186	0.000331	0.007711	0.004056	0.001130	0.011304
29-Oct-2022	0.038699	7.852720	11.705400	2.230970	28.795376	1.097800	0.020733	0.218239	0.030001	0.001989	0.001532	0.081851	0.000332	0.007763	0.004081	0.001138	0.011376
30-Oct-2022	0.039208	7.904130	11.779000	2.246510	28.987741	1.104830	0.020883	0.219841	0.030212	0.002003	0.001543	0.082518	0.000334	0.007817	0.004107	0.001145	0.011450
31-Oct-2022	0.039560	7.952440	11.849200	2.260790	29.167176	1.111490	0.021019	0.221290	0.030405	0.002016	0.001553	0.083101	0.000336	0.007866	0.004132	0.001152	0.011519
1-Nov-2022	0.040102	8.003050	11.922600	2.275790	29.355319	1.118460	0.021163	0.222812	0.030608	0.002030	0.001564	0.083715	0.000338	0.007918	0.004158	0.001159	0.011592
2-Nov-2022	0.040616	8.055070	11.998000	2.291210	29.548713	1.125620	0.021310	0.224378	0.030817	0.002044	0.001575	0.084347	0.000340	0.007971	0.004185	0.001167	0.011667
3-Nov-2022	0.040978	8.109720	12.076600	2.307620	29.752750	1.133100	0.021468	0.226062	0.031039	0.002059	0.001587	0.085039	0.000342	0.008028	0.004213	0.001175	0.011746
4-Nov-2022	0.041177	8.165420	12.154600	2.324970	29.963280	1.140630	0.021638	0.227891	0.031276	0.002075	0.001599	0.085828	0.000344	0.008087	0.004241	0.001183	0.011825
5-Nov-2022	0.041108	8.222170	12.234000	2.342690	30.177956	1.148280	0.021812	0.229762	0.031517	0.002091	0.001613	0.086637	0.000346	0.008148	0.004270	0.001191	0.011906
6-Nov-2022	0.041287	8.302440	12.353900	2.365400	30.471910	1.159530	0.022024	0.231985	0.031823	0.002111	0.001628	0.087465	0.000350	0.008227	0.004312	0.001202	0.012023
7-Nov-2022	0.041742	8.358750	12.434200	2.382530	30.683057	1.167200	0.022189	0.233756	0.032056	0.002127	0.001641	0.088203	0.000352	0.008286	0.004340	0.001210	0.012103
8-Nov-2022	0.041923	8.415840	12.515800	2.399810	30.896770	1.174990	0.022356	0.235537	0.032291	0.002143	0.001653	0.088940	0.000354	0.008346	0.004370	0.001219	0.012185
9-Nov-2022	0.041604	8.474410	12.599700	2.417490	31.115826	1.182990	0.022527	0.237357	0.032531	0.002159	0.001666	0.089689	0.000356	0.008406	0.004400	0.001227	0.012269
10-Nov-2022	0.041398	8.535490	12.688400	2.435580	31.342837	1.191410	0.022700	0.239197	0.032777	0.002175	0.001679	0.090424	0.000359	0.008469	0.004431	0.001236	0.012357
11-Nov-2022	0.041547	8.598400	12.781400	2.453650	31.574336	1.200180	0.022870	0.240995	0.033022	0.002191	0.001691	0.091105	0.000362	0.008532	0.004464	0.001245	0.012448

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
12-Nov-2022	0.042033	8.661660	12.876800	2.471280	31.804896	1.209100	0.023034	0.242710	0.033260	0.002207	0.001703	0.091718	0.000364	0.008594	0.004497	0.001254	0.012540
13-Nov-2022	0.042267	8.722240	12.969100	2.487840	32.024358	1.217710	0.023186	0.244299	0.033484	0.002221	0.001714	0.092263	0.000367	0.008652	0.004528	0.001263	0.012629
14-Nov-2022	0.042237	8.780070	13.057900	2.503460	32.233083	1.225970	0.023328	0.245779	0.033693	0.002235	0.001725	0.092761	0.000369	0.008707	0.004559	0.001271	0.012713
15-Nov-2022	0.042131	8.844280	13.155600	2.521070	32.465933	1.235070	0.023488	0.247456	0.033929	0.002251	0.001736	0.093350	0.000372	0.008769	0.004593	0.001281	0.012806
16-Nov-2022	0.041370	8.910940	13.255800	2.539730	32.709225	1.244440	0.023660	0.249258	0.034178	0.002267	0.001749	0.094012	0.000375	0.008834	0.004627	0.001290	0.012903
17-Nov-2022	0.040622	8.961890	13.334800	2.553280	32.892246	1.251740	0.023781	0.250508	0.034357	0.002279	0.001758	0.094426	0.000377	0.008882	0.004654	0.001298	0.012978
18-Nov-2022	0.040365	8.920890	13.275800	2.540940	32.739053	1.246150	0.023663	0.249256	0.034189	0.002268	0.001749	0.093918	0.000376	0.008839	0.004633	0.001292	0.012919
19-Nov-2022	0.040639	8.953820	13.330600	2.548530	32.852535	1.251090	0.023725	0.249866	0.034286	0.002275	0.001753	0.094037	0.000377	0.008867	0.004651	0.001297	0.012968
20-Nov-2022	0.040984	8.992650	13.393000	2.558130	32.989026	1.256800	0.023807	0.250701	0.034411	0.002283	0.001758	0.094273	0.000379	0.008901	0.004672	0.001303	0.013025
21-Nov-2022	0.041058	9.040110	13.466700	2.570700	33.159297	1.263620	0.023920	0.251863	0.034578	0.002294	0.001767	0.094667	0.000381	0.008946	0.004697	0.001309	0.013094
22-Nov-2022	0.040782	9.087170	13.539400	2.583270	33.328569	1.270350	0.024032	0.253035	0.034745	0.002305	0.001775	0.095032	0.000384	0.008990	0.004722	0.001316	0.013163
23-Nov-2022	0.040740	9.130350	13.605900	2.594860	33.484117	1.276520	0.024137	0.254120	0.034899	0.002316	0.001782	0.095395	0.000385	0.009031	0.004745	0.001323	0.013226
24-Nov-2022	0.040888	9.166500	13.660300	2.604950	33.615935	1.281620	0.024230	0.255098	0.035034	0.002325	0.001789	0.095753	0.000387	0.009066	0.004764	0.001328	0.013279
25-Nov-2022	0.040883	9.214370	13.733500	2.617980	33.789124	1.288420	0.024348	0.256330	0.035207	0.002336	0.001798	0.096179	0.000389	0.009112	0.004789	0.001335	0.013349
26-Nov-2022	0.041019	9.268260	13.814800	2.633000	33.985539	1.296010	0.024487	0.257779	0.035409	0.002349	0.001808	0.096705	0.000391	0.009164	0.004817	0.001343	0.013427
27-Nov-2022	0.041106	9.320020	13.893400	2.647230	34.173383	1.303340	0.024617	0.259138	0.035599	0.002362	0.001817	0.097185	0.000394	0.009214	0.004844	0.001350	0.013502
28-Nov-2022	0.041308	9.368590	13.967200	2.660580	34.349638	1.310220	0.024739	0.260412	0.035777	0.002374	0.001826	0.097634	0.000396	0.009261	0.004870	0.001357	0.013573
29-Nov-2022	0.041373	9.168090	13.670200	2.603040	33.612039	1.282320	0.024202	0.254751	0.035002	0.002323	0.001786	0.095500	0.000387	0.009061	0.004766	0.001328	0.013283
30-Nov-2022	0.041325	9.222860	13.751500	2.618690	33.813247	1.289960	0.024348	0.256289	0.035212	0.002337	0.001797	0.096091	0.000390	0.009116	0.004794	0.001336	0.013362
1-Dec-2022	0.041109	9.278970	13.835500	2.634530	34.018583	1.297820	0.024495	0.257832	0.035425	0.002351	0.001808	0.096667	0.000392	0.009171	0.004824	0.001344	0.013444
2-Dec-2022	0.041285	9.326950	13.908300	2.647990	34.193817	1.304610	0.024621	0.259163	0.035606	0.002363	0.001817	0.097145	0.000394	0.009218	0.004849	0.001351	0.013513
3-Dec-2022	0.041585	9.383650	13.991400	2.664300	34.402561	1.312450	0.024772	0.260748	0.035825	0.002377	0.001828	0.097730	0.000397	0.009274	0.004878	0.001360	0.013595
4-Dec-2022	0.041581	9.193900	13.711500	2.609470	33.702966	1.286110	0.024258	0.255318	0.035086	0.002328	0.001790	0.095634	0.000389	0.009084	0.004780	0.001332	0.013321
5-Dec-2022	0.041275	9.252990	13.800200	2.626070	33.918872	1.294410	0.024411	0.256929	0.035309	0.002343	0.001801	0.096226	0.000391	0.009142	0.004811	0.001341	0.013407
6-Dec-2022	0.040910	9.309380	13.884400	2.642050	34.125484	1.302300	0.024559	0.258489	0.035523	0.002357	0.001812	0.096809	0.000394	0.009198	0.004840	0.001349	0.013488
7-Dec-2022	0.040910	9.372660	13.977600	2.660380	34.358977	1.311080	0.024731	0.260308	0.035771	0.002374	0.001825	0.097514	0.000396	0.009261	0.004873	0.001358	0.013580
8-Dec-2022	0.041046	9.434120	14.068000	2.678220	34.585908	1.319600	0.024899	0.262081	0.036011	0.002390	0.001838	0.098203	0.000399	0.009323	0.004904	0.001367	0.013669
9-Dec-2022	0.041139	9.488240	14.147500	2.693970	34.785904	1.327090	0.025047	0.263651	0.036224	0.002404	0.001849	0.098816	0.000401	0.009378	0.004932	0.001375	0.013747
10-Dec-2022	0.041108	9.541790	14.226700	2.709370	34.983035	1.334540	0.025191	0.265171	0.036431	0.002418	0.001859	0.099398	0.000403	0.009431	0.004960	0.001382	0.013824
11-Dec-2022	0.041106	9.594280	14.304800	2.724330	35.175708	1.341870	0.025331	0.266639	0.036633	0.002431	0.001870	0.099952	0.000405	0.009483	0.004987	0.001390	0.013900
12-Dec-2022	0.041043	9.634240	14.365200	2.735420	35.321157	1.347510	0.025432	0.267704	0.036781	0.002441	0.001877	0.100334	0.000407	0.009522	0.005008	0.001396	0.013958
13-Dec-2022	0.040976	9.674330	14.426600	2.746290	35.466024	1.353210	0.025531	0.268730	0.036926	0.002450	0.001884	0.100686	0.000409	0.009560	0.005029	0.001402	0.014017
14-Dec-2022	0.041044	9.718860	14.494800	2.758370	35.626961	1.359550	0.025640	0.269869	0.037087	0.002461	0.001892	0.101077	0.000411	0.009603	0.005053	0.001408	0.014082
15-Dec-2022	0.041124	9.766570	14.568100	2.771240	35.799092	1.366350	0.025757	0.271079	0.037259	0.002472	0.001900	0.101487	0.000413	0.009648	0.005078	0.001415	0.014151
16-Dec-2022	0.040932	9.811480	14.637200	2.783300	35.960895	1.372770	0.025865	0.272208	0.037419	0.002483	0.001908	0.101866	0.000415	0.009690	0.005102	0.001422	0.014217
17-Dec-2022	0.040796	9.850260	14.696100	2.794010	36.101832	1.378250	0.025963	0.273232	0.037563	0.002492	0.001915	0.102231	0.000417	0.009728	0.005122	0.001427	0.014273
18-Dec-2022	0.040938	9.886330	14.751000	2.803900	36.232626	1.383360	0.026054	0.274173	0.037695	0.002501	0.001922	0.102560	0.000418	0.009763	0.005141	0.001433	0.014326
19-Dec-2022	0.040949	9.921880	14.807600	2.812870	36.358333	1.388550	0.026131	0.274966	0.037813	0.002509	0.001927	0.102785	0.000420	0.009795	0.005160	0.001438	0.014378
20-Dec-2022	0.040800	9.948450	14.855500	2.817810	36.445021	1.392770	0.026164	0.275257	0.037874	0.002513	0.001929	0.102726	0.000421	0.009814	0.005175	0.001442	0.014418
21-Dec-2022	0.040848	9.979550	14.910300	2.824020	36.548251	1.397620	0.026209	0.275670	0.037951	0.002518	0.001932	0.102712	0.000423	0.009837	0.005192	0.001447	0.014465
22-Dec-2022	0.040914	9.992550	14.935400	2.825910	36.588495	1.399780	0.026218	0.275721	0.037973	0.002519	0.001932	0.102615	0.000424	0.009845	0.005200	0.001449	0.014486
23-Dec-2022	0.040817	10.015100	14.972900	2.831100	36.666175	1.403170	0.026260	0.276139	0.038040	0.002524	0.001935	0.102693	0.000425	0.009864	0.005212	0.001452	0.014519
24-Dec-2022	0.040838	10.037200	15.009100	2.836400	36.743184	1.406460	0.026304	0.276583	0.038109	0.002528	0.001938	0.102795	0.000426	0.009883	0.005224	0.001455	0.014552
25-Dec-2022	0.040962	10.051300	15.033200	2.839430	36.790869	1.408620	0.026327	0.276808	0.038147	0.002531	0.001939	0.102817	0.000427	0.009895	0.005232	0.001457	0.014573
26-Dec-2022	0.040873	10.069200	15.062600	2.843620	36.852820	1.411280	0.026362	0.277153	0.038202	0.002534	0.001942	0.102890	0.000428	0.009910	0.005242	0.001460	0.014600
27-Dec-2022	0.040833	10.065500	15.060800	2.841380	36.834356	1.410990	0.026335	0.276847	0.038169	0.002532	0.001939	0.102709	0.000428	0.009903	0.005241	0.001459	0.014595
28-Dec-2022	0.040960	10.077500	15.081100	2.844050	36.875315	1.412810	0.026357	0.277053	0.038203	0.002534	0.001941	0.102731	0.000428	0.009913	0.005247	0.001461	0.014613
29-Dec-2022	0.040936	10.106600	15.126400	2.851740	36.979646	1.417000	0.026425	0.277763	0.038305	0.002541	0.001946	0.102958	0.000430	0.009940	0.005263	0.001466	0.014656
30-Dec-2022	0.040864	10.137900	15.174700	2.860100	37.092228	1.421470	0.026500	0.278543	0.038416	0.002548	0.001951	0.103217	0.000431	0.009969	0.005279	0.001470	0.014701
31-Dec-2022	0.040927	10.171500	15.226200	2.869220	37.213683	1.426260	0.026583	0.279403	0.038538	0.002556	0.001957	0.103511	0.000432	0.010001	0.005297	0.001475	0.014750
1-Jan-2023	0.040906	10.210900	15.286400	2.879940	37.356210	1.431860	0.026680	0.280418	0.038681	0.002566	0.001964	0.103862	0.000434	0.010039	0.005317	0.001481	0.014808
2-Jan-2023	0.040848	10.245600	15.339800	2.889310	37.481442	1.436810	0.026765	0.281298	0.038806	0.002574	0.001970	0.104160	0.000436	0.010072	0.005336	0.001486	0.014858
3-Jan-2023	0.040891	10.265500	15.370700	2.894540	37.552669	1.439660	0.026812	0.281780	0.038875	0.002579	0.001973	0.104315	0.000437	0.010091	0.005346	0.001489	0.014887

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
4-Jan-2023	0.040899	10.280700	15.394200	2.898630	37.607466	1.441840	0.026848	0.282162	0.038930	0.002582	0.001976	0.104443	0.000437	0.010105	0.005354	0.001491	0.014910
5-Jan-2023	0.040831	10.298600	15.421300	2.903560	37.672464	1.444370	0.026894	0.282635	0.038996	0.002587	0.001979	0.104611	0.000438	0.010122	0.005364	0.001494	0.014936
6-Jan-2023	0.040847	10.320500	15.454500	2.909650	37.752227	1.447470	0.026950	0.283221	0.039077	0.002592	0.001983	0.104821	0.000439	0.010144	0.005375	0.001497	0.014968
7-Jan-2023	0.040846	10.350400	15.499500	2.917970	37.861149	1.451670	0.027026	0.284024	0.039189	0.002599	0.001989	0.105113	0.000440	0.010173	0.005391	0.001501	0.015011
8-Jan-2023	0.040761	10.386700	15.553700	2.928230	37.994041	1.456750	0.027121	0.285025	0.039327	0.002609	0.001996	0.105486	0.000442	0.010208	0.005410	0.001506	0.015064
9-Jan-2023	0.040781	10.421700	15.605500	2.938310	38.122945	1.461630	0.027216	0.286020	0.039462	0.002618	0.002003	0.105866	0.000443	0.010243	0.005428	0.001511	0.015114
10-Jan-2023	0.040832	10.457000	15.657600	2.948520	38.253134	1.466530	0.027312	0.287033	0.039600	0.002627	0.002010	0.106258	0.000445	0.010279	0.005446	0.001517	0.015165
11-Jan-2023	0.040778	10.497400	15.717100	2.960180	38.402029	1.472140	0.027421	0.288189	0.039757	0.002637	0.002018	0.106705	0.000446	0.010319	0.005467	0.001522	0.015224
12-Jan-2023	0.040749	10.539200	15.778900	2.972240	38.556067	1.477960	0.027534	0.289383	0.039920	0.002648	0.002027	0.107164	0.000448	0.010361	0.005489	0.001528	0.015284
13-Jan-2023	0.040819	10.582400	15.843000	2.984610	38.714877	1.483980	0.027650	0.290601	0.040086	0.002659	0.002035	0.107627	0.000450	0.010404	0.005511	0.001535	0.015347
14-Jan-2023	0.040820	10.629700	15.913200	2.998120	38.888619	1.490580	0.027776	0.291930	0.040268	0.002671	0.002045	0.108131	0.000452	0.010451	0.005536	0.001541	0.015415
15-Jan-2023	0.040769	10.681800	15.990500	3.013050	39.080195	1.497830	0.027915	0.293401	0.040469	0.002685	0.002055	0.108691	0.000454	0.010503	0.005563	0.001549	0.015490
16-Jan-2023	0.040810	10.734800	16.069100	3.028200	39.274923	1.505220	0.028056	0.294891	0.040673	0.002698	0.002065	0.109257	0.000456	0.010556	0.005590	0.001557	0.015567
17-Jan-2023	0.040851	10.784400	16.143100	3.042300	39.456838	1.512170	0.028188	0.296271	0.040863	0.002711	0.002075	0.109774	0.000458	0.010605	0.005616	0.001564	0.015639
18-Jan-2023	0.040829	10.834800	16.218400	3.056580	39.641492	1.519230	0.028320	0.297666	0.041055	0.002723	0.002085	0.110295	0.000461	0.010654	0.005642	0.001571	0.015712
19-Jan-2023	0.040776	10.887100	16.296400	3.071360	39.832949	1.526540	0.028457	0.299109	0.041253	0.002737	0.002095	0.110833	0.000463	0.010706	0.005669	0.001579	0.015788
20-Jan-2023	0.040819	10.938600	16.373600	3.085900	40.021420	1.533770	0.028592	0.300524	0.041449	0.002750	0.002105	0.111357	0.000465	0.010757	0.005696	0.001586	0.015862
21-Jan-2023	0.040846	10.984600	16.442900	3.098760	40.189240	1.540240	0.028710	0.301768	0.041621	0.002761	0.002114	0.111809	0.000467	0.010801	0.005720	0.001593	0.015929
22-Jan-2023	0.040824	11.029500	16.510700	3.111220	40.352665	1.546580	0.028825	0.302966	0.041788	0.002772	0.002122	0.112240	0.000469	0.010845	0.005744	0.001599	0.015995
23-Jan-2023	0.040805	11.078400	16.584700	3.124770	40.530568	1.553480	0.028949	0.304268	0.041969	0.002784	0.002131	0.112707	0.000471	0.010892	0.005769	0.001607	0.016066
24-Jan-2023	0.040856	11.131800	16.665300	3.139630	40.725101	1.561010	0.029086	0.305699	0.042169	0.002797	0.002141	0.113224	0.000473	0.010944	0.005797	0.001614	0.016143
25-Jan-2023	0.040876	11.187600	16.749400	3.155150	40.928345	1.568870	0.029229	0.307196	0.042377	0.002811	0.002151	0.113765	0.000476	0.010999	0.005826	0.001622	0.016224
26-Jan-2023	0.040867	11.244900	16.835900	3.171110	41.137146	1.576940	0.029376	0.308735	0.042591	0.002825	0.002162	0.114321	0.000478	0.011054	0.005856	0.001631	0.016308
27-Jan-2023	0.040859	11.304400	16.925600	3.187690	41.353994	1.585330	0.029528	0.310334	0.042813	0.002840	0.002173	0.114900	0.000481	0.011112	0.005887	0.001639	0.016394
28-Jan-2023	0.040865	11.366200	17.018800	3.204930	41.579303	1.594040	0.029687	0.311998	0.043044	0.002855	0.002185	0.115504	0.000483	0.011173	0.005920	0.001648	0.016484
29-Jan-2023	0.040886	11.430100	17.115000	3.222740	41.812203	1.603030	0.029851	0.313717	0.043283	0.002871	0.002197	0.116128	0.000486	0.011235	0.005953	0.001658	0.016576
30-Jan-2023	0.040881	11.496100	17.214500	3.241160	42.052859	1.612320	0.030021	0.315496	0.043530	0.002887	0.002210	0.116774	0.000489	0.011299	0.005987	0.001667	0.016672
31-Jan-2023	0.040861	11.563500	17.316100	3.259980	42.298657	1.621820	0.030194	0.317314	0.043782	0.002904	0.002222	0.117434	0.000492	0.011365	0.006023	0.001677	0.016770
1-Feb-2023	0.040850	11.632700	17.420200	3.279280	42.550927	1.631550	0.030372	0.319178	0.044041	0.002921	0.002235	0.118111	0.000495	0.011432	0.006059	0.001687	0.016871
2-Feb-2023	0.040848	11.703900	17.527500	3.299160	42.810579	1.641570	0.030555	0.321099	0.044307	0.002939	0.002249	0.118810	0.000498	0.011502	0.006096	0.001697	0.016974
3-Feb-2023	0.040844	11.777000	17.637600	3.319590	43.077241	1.651870	0.030743	0.323073	0.044581	0.002957	0.002262	0.119527	0.000501	0.011573	0.006134	0.001708	0.017080
4-Feb-2023	0.040836	11.851800	17.750300	3.340470	43.350000	1.662400	0.030936	0.325090	0.044861	0.002976	0.002277	0.120260	0.000504	0.011646	0.006173	0.001719	0.017189
5-Feb-2023	0.040833	11.934300	17.873900	3.363710	43.651705	1.673980	0.031151	0.327351	0.045173	0.002996	0.002292	0.121096	0.000508	0.011727	0.006216	0.001731	0.017309
6-Feb-2023	0.040832	12.033800	18.023500	3.391600	44.015007	1.687970	0.031408	0.330053	0.045547	0.003021	0.002311	0.122085	0.000512	0.011825	0.006268	0.001745	0.017453
7-Feb-2023	0.040829	12.147700	18.194500	3.423550	44.430986	1.703970	0.031703	0.333152	0.045976	0.003050	0.002333	0.123221	0.000517	0.011936	0.006327	0.001762	0.017618
8-Feb-2023	0.040820	12.246500	18.343000	3.451210	44.791593	1.717860	0.031959	0.335829	0.046347	0.003074	0.002352	0.124200	0.000521	0.012033	0.006379	0.001776	0.017762
9-Feb-2023	0.040810	12.301600	18.426300	3.466540	44.992307	1.725640	0.032099	0.337305	0.046553	0.003088	0.002362	0.124732	0.000524	0.012086	0.006408	0.001784	0.017842
10-Feb-2023	0.040804	12.359400	18.513400	3.482600	45.202769	1.733780	0.032247	0.338853	0.046768	0.003102	0.002373	0.125291	0.000526	0.012142	0.006438	0.001793	0.017926
11-Feb-2023	0.040799	12.427500	18.616100	3.501620	45.451139	1.743370	0.032422	0.340689	0.047023	0.003119	0.002386	0.125958	0.000529	0.012209	0.006474	0.001802	0.018025
12-Feb-2023	0.040791	12.505300	18.733100	3.523350	45.734889	1.754310	0.032623	0.342791	0.047314	0.003138	0.002400	0.126723	0.000532	0.012285	0.006514	0.001814	0.018138
13-Feb-2023	0.040786	12.588800	18.858800	3.546720	46.039627	1.766060	0.032838	0.345052	0.047628	0.003159	0.002416	0.127549	0.000536	0.012366	0.006558	0.001826	0.018259
14-Feb-2023	0.040781	12.672300	18.984400	3.570090	46.344364	1.777810	0.033054	0.347313	0.047941	0.003180	0.002432	0.128374	0.000539	0.012448	0.006601	0.001838	0.018380
15-Feb-2023	0.040778	12.758100	19.113400	3.594090	46.657438	1.789880	0.033275	0.349637	0.048263	0.003201	0.002448	0.129222	0.000543	0.012532	0.006646	0.001850	0.018505
16-Feb-2023	0.040774	12.845000	19.244100	3.618420	46.974619	1.802090	0.033500	0.351993	0.048590	0.003223	0.002465	0.130083	0.000547	0.012617	0.006691	0.001863	0.018631
17-Feb-2023	0.040772	12.930700	19.372900	3.642420	47.287443	1.814140	0.033721	0.354316	0.048911	0.003244	0.002481	0.130932	0.000550	0.012700	0.006736	0.001876	0.018755
18-Feb-2023	0.040773	13.015500	19.500500	3.666180	47.597033	1.826070	0.033941	0.356618	0.049230	0.003265	0.002497	0.131774	0.000554	0.012783	0.006780	0.001888	0.018878
19-Feb-2023	0.040775	13.099900	19.627300	3.689830	47.905170	1.837940	0.034159	0.358909	0.049548	0.003286	0.002513	0.132612	0.000558	0.012866	0.006824	0.001900	0.019001
20-Feb-2023	0.040775	13.185000	19.755100	3.713670	48.215838	1.849890	0.034379	0.361219	0.049867	0.003308	0.002529	0.133458	0.000561	0.012949	0.006869	0.001912	0.019124
21-Feb-2023	0.040774	13.268800	19.881100	3.737150	48.521777	1.861670	0.034596	0.363494	0.050182	0.003329	0.002545	0.134291	0.000565	0.013031	0.006913	0.001925	0.019246
22-Feb-2023	0.040774	13.352600	20.007100	3.760650	48.827799	1.873460	0.034813	0.365771	0.050498	0.003349	0.002561	0.135125	0.000569	0.013113	0.006956	0.001937	0.019368
23-Feb-2023	0.040765	13.435300	20.131300	3.783810	49.129674	1.885080	0.035027	0.368015	0.050808	0.003370	0.002577	0.135946	0.000572	0.013194	0.006999	0.001949	0.019488
24-Feb-2023	0.040759	13.515600	20.252000	3.806310	49.422838	1.896370	0.035234	0.370195	0.051110	0.003390	0.002592	0.136743	0.000576	0.013273	0.007041	0.001960	0.019604
25-Feb-2023	0.040757	13.593900	20.369700	3.828240	49.708661	1.907380	0.035437	0.372319	0.051405	0.003410	0.002607	0.137520	0.000579	0.013349	0.007082	0.001972	0.019718

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
26-Feb-2023	0.040752	13.672000	20.487100	3.850140	49.993861	1.918360	0.035639	0.374440	0.051698	0.003429	0.002622	0.138296	0.000582	0.013426	0.007123	0.001983	0.019831
27-Feb-2023	0.040747	13.750300	20.604800	3.872070	50.279683	1.929370	0.035841	0.376565	0.051993	0.003449	0.002637	0.139074	0.000586	0.013502	0.007164	0.001994	0.019945
28-Feb-2023	0.040736	13.827600	20.720900	3.893730	50.561897	1.940240	0.036041	0.378664	0.052283	0.003468	0.002651	0.139842	0.000589	0.013578	0.007204	0.002006	0.020057
1-Mar-2023	0.040724	13.907800	20.841500	3.916220	50.854771	1.951510	0.036249	0.380844	0.052585	0.003488	0.002667	0.140641	0.000592	0.013656	0.007246	0.002017	0.020174
2-Mar-2023	0.040716	13.995400	20.973000	3.940780	51.174646	1.963820	0.036476	0.383226	0.052915	0.003510	0.002683	0.141515	0.000596	0.013742	0.007292	0.002030	0.020301
3-Mar-2023	0.040711	14.082300	21.103600	3.965180	51.492114	1.976040	0.036701	0.385592	0.053242	0.003531	0.002700	0.142382	0.000600	0.013827	0.007337	0.002043	0.020427
4-Mar-2023	0.040709	14.161700	21.222900	3.987440	51.782043	1.987200	0.036907	0.387749	0.053541	0.003551	0.002715	0.143173	0.000603	0.013905	0.007378	0.002054	0.020542
5-Mar-2023	0.040707	14.238900	21.338900	4.009090	52.063966	1.998050	0.037107	0.389848	0.053831	0.003571	0.002730	0.143942	0.000606	0.013980	0.007419	0.002065	0.020654
6-Mar-2023	0.040701	14.320100	21.460700	4.031860	52.360489	2.009450	0.037317	0.392056	0.054137	0.003591	0.002745	0.144752	0.000610	0.014060	0.007461	0.002077	0.020772
7-Mar-2023	0.040700	14.407900	21.592500	4.056510	52.681234	2.021780	0.037545	0.394448	0.054467	0.003613	0.002762	0.145631	0.000614	0.014146	0.007507	0.002090	0.020899
8-Mar-2023	0.040710	14.493500	21.721000	4.080560	52.994016	2.033800	0.037767	0.396783	0.054790	0.003634	0.002778	0.146489	0.000617	0.014230	0.007551	0.002102	0.021023
9-Mar-2023	0.040715	14.570200	21.836100	4.102100	53.274237	2.044580	0.037966	0.398874	0.055079	0.003653	0.002793	0.147258	0.000621	0.014305	0.007591	0.002113	0.021135
10-Mar-2023	0.040719	14.639800	21.940500	4.121650	53.528535	2.054350	0.038147	0.400771	0.055342	0.003671	0.002806	0.147955	0.000624	0.014373	0.007628	0.002124	0.021236
11-Mar-2023	0.040721	14.705400	22.039100	4.140090	53.768274	2.063570	0.038318	0.402561	0.055589	0.003687	0.002819	0.148613	0.000626	0.014437	0.007662	0.002133	0.021331
12-Mar-2023	0.040723	14.772000	22.138900	4.158780	54.011540	2.072920	0.038490	0.404376	0.055840	0.003704	0.002831	0.149281	0.000629	0.014503	0.007697	0.002143	0.021428
13-Mar-2023	0.040725	14.838000	22.238000	4.177330	54.252731	2.082190	0.038662	0.406177	0.056089	0.003720	0.002844	0.149943	0.000632	0.014567	0.007731	0.002152	0.021523
14-Mar-2023	0.040726	14.902900	22.335400	4.195560	54.489857	2.091310	0.038830	0.407946	0.056334	0.003736	0.002856	0.150594	0.000635	0.014631	0.007765	0.002162	0.021618
15-Mar-2023	0.040727	14.962200	22.424400	4.212220	54.706535	2.099630	0.038984	0.409564	0.056557	0.003751	0.002868	0.151188	0.000637	0.014689	0.007796	0.002170	0.021704
16-Mar-2023	0.040728	15.017500	22.507400	4.227760	54.908613	2.107400	0.039128	0.411071	0.056766	0.003765	0.002878	0.151743	0.000640	0.014743	0.007825	0.002178	0.021784
17-Mar-2023	0.040729	15.070100	22.586300	4.242520	55.100737	2.114790	0.039264	0.412505	0.056964	0.003778	0.002888	0.152269	0.000642	0.014795	0.007852	0.002186	0.021860
18-Mar-2023	0.040730	15.120300	22.661600	4.256620	55.284150	2.121840	0.039395	0.413873	0.057153	0.003791	0.002898	0.152772	0.000644	0.014844	0.007878	0.002193	0.021933
19-Mar-2023	0.040731	15.165600	22.729700	4.269350	55.449687	2.128200	0.039512	0.415108	0.057324	0.003802	0.002906	0.153226	0.000646	0.014888	0.007902	0.002200	0.021999
20-Mar-2023	0.040731	15.210000	22.796300	4.281810	55.611864	2.134440	0.039628	0.416317	0.057491	0.003813	0.002915	0.153671	0.000648	0.014932	0.007925	0.002206	0.022063
21-Mar-2023	0.040731	15.252200	22.859700	4.293680	55.766118	2.140370	0.039737	0.417469	0.057651	0.003824	0.002923	0.154094	0.000650	0.014973	0.007947	0.002212	0.022124
22-Mar-2023	0.040731	15.289600	22.915800	4.304160	55.902662	2.145620	0.039834	0.418486	0.057791	0.003833	0.002930	0.154467	0.000651	0.015010	0.007966	0.002218	0.022179
23-Mar-2023	0.040731	15.353600	23.011800	4.322170	56.136635	2.154610	0.040001	0.420235	0.058033	0.003849	0.002942	0.155112	0.000654	0.015073	0.008000	0.002227	0.022272
24-Mar-2023	0.040731	15.431900	23.129100	4.344180	56.422788	2.165590	0.040204	0.422375	0.058329	0.003869	0.002957	0.155900	0.000657	0.015149	0.008041	0.002239	0.022385
25-Mar-2023	0.040731	15.510800	23.247500	4.366390	56.711262	2.176680	0.040410	0.424533	0.058627	0.003889	0.002972	0.156696	0.000661	0.015227	0.008082	0.002250	0.022500
26-Mar-2023	0.040731	15.606000	23.390200	4.393190	57.059338	2.190040	0.040658	0.427138	0.058987	0.003912	0.002991	0.157657	0.000665	0.015320	0.008131	0.002264	0.022638
27-Mar-2023	0.040730	15.707500	23.542400	4.421760	57.430435	2.204290	0.040922	0.429916	0.059370	0.003938	0.003010	0.158682	0.000669	0.015420	0.008184	0.002279	0.022785
28-Mar-2023	0.040730	15.816600	23.705800	4.452450	57.829239	2.219590	0.041206	0.432900	0.059782	0.003965	0.003031	0.159783	0.000674	0.015527	0.008241	0.002294	0.022943
29-Mar-2023	0.040730	15.931900	23.878800	4.484920	58.250855	2.235780	0.041507	0.436056	0.060218	0.003994	0.003053	0.160948	0.000679	0.015640	0.008301	0.002311	0.023111
30-Mar-2023	0.040730	16.049200	24.054600	4.517940	58.679729	2.252240	0.041812	0.439266	0.060662	0.004024	0.003075	0.162132	0.000684	0.015755	0.008362	0.002328	0.023281
31-Mar-2023	0.040730	16.166800	24.230700	4.551020	59.109600	2.268730	0.042118	0.442483	0.061106	0.004053	0.003098	0.163320	0.000689	0.015871	0.008423	0.002345	0.023451
1-Apr-2023	0.040730	16.301800	24.433100	4.589030	59.603220	2.287680	0.042470	0.446178	0.061616	0.004087	0.003124	0.164683	0.000694	0.016003	0.008494	0.002365	0.023647
2-Apr-2023	0.040730	16.450900	24.656600	4.631010	60.148396	2.308600	0.042859	0.450260	0.062180	0.004124	0.003152	0.166190	0.000701	0.016150	0.008571	0.002386	0.023863
3-Apr-2023	0.040730	16.491300	24.717200	4.642400	60.296179	2.314280	0.042964	0.451367	0.062333	0.004134	0.003160	0.166599	0.000702	0.016189	0.008593	0.002392	0.023922
4-Apr-2023	0.040730	16.444700	24.647300	4.629260	60.125709	2.307740	0.042842	0.450089	0.062156	0.004123	0.003151	0.166127	0.000701	0.016144	0.008568	0.002385	0.023854
5-Apr-2023	0.040730	16.348300	24.502800	4.602110	59.773194	2.294210	0.042591	0.447449	0.061792	0.004098	0.003133	0.165152	0.000696	0.016049	0.008518	0.002371	0.023714
6-Apr-2023	0.040730	16.228300	24.323000	4.568330	59.334448	2.277370	0.042278	0.444164	0.061338	0.004068	0.003110	0.163939	0.000691	0.015931	0.008456	0.002354	0.023540
7-Apr-2023	0.040730	16.103400	24.135800	4.533150	58.877702	2.259840	0.041953	0.440743	0.060866	0.004037	0.003086	0.162676	0.000686	0.015808	0.008390	0.002336	0.023359
8-Apr-2023	0.040730	15.982900	23.955200	4.499210	58.437048	2.242930	0.041639	0.437443	0.060410	0.004007	0.003063	0.161457	0.000681	0.015690	0.008328	0.002318	0.023184
9-Apr-2023	0.040730	15.866800	23.781300	4.466530	58.012570	2.226650	0.041336	0.434265	0.059971	0.003978	0.003040	0.160283	0.000676	0.015576	0.008267	0.002302	0.023016
10-Apr-2023	0.040730	15.755700	23.614800	4.435250	57.606342	2.211050	0.041047	0.431222	0.059551	0.003950	0.003019	0.159160	0.000671	0.015467	0.008209	0.002285	0.022855
11-Apr-2023	0.040730	15.649200	23.455100	4.405250	57.216872	2.196110	0.040769	0.428305	0.059148	0.003923	0.002999	0.158083	0.000667	0.015362	0.008154	0.002270	0.022700
12-Apr-2023	0.040730	15.547700	23.303100	4.376690	56.845816	2.181870	0.040505	0.425528	0.058765	0.003898	0.002979	0.157057	0.000662	0.015263	0.008101	0.002255	0.022553
13-Apr-2023	0.040730	15.451000	23.158200	4.349460	56.492223	2.168310	0.040253	0.422880	0.058399	0.003873	0.002961	0.156079	0.000658	0.015168	0.008051	0.002241	0.022413
14-Apr-2023	0.040730	15.359100	23.020500	4.323590	56.156216	2.155410	0.040013	0.420364	0.058052	0.003850	0.002943	0.155150	0.000654	0.015078	0.008003	0.002228	0.022280
15-Apr-2023	0.040730	15.273400	22.892000	4.299440	55.842774	2.143380	0.039790	0.418015	0.057728	0.003829	0.002927	0.154283	0.000651	0.014993	0.007958	0.002216	0.022155
16-Apr-2023	0.040730	15.194200	22.773400	4.277160	55.553262	2.132270	0.039583	0.415849	0.057428	0.003809	0.002912	0.153483	0.000647	0.014916	0.007917	0.002204	0.022040
17-Apr-2023	0.040730	15.121800	22.664900	4.256760	55.288472	2.122110	0.039395	0.413865	0.057155	0.003791	0.002898	0.152751	0.000644	0.014845	0.007879	0.002194	0.021935
18-Apr-2023	0.040730	15.055500	22.565500	4.238080	55.045997	2.112800	0.039222	0.412049	0.056904	0.003774	0.002885	0.152080	0.000641	0.014780	0.007844	0.002184	0.021839
19-Apr-2023	0.040730	14.994800	22.474600	4.221000	54.824094	2.104290	0.039064	0.410388	0.056674	0.003759	0.002873	0.151466	0.000639	0.014720	0.007813	0.002175	0.021751

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
20-Apr-2023	0.040729	14.939200	22.391200	4.205330	54.620731	2.096480	0.038919	0.408864	0.056464	0.003745	0.002863	0.150904	0.000636	0.014665	0.007784	0.002167	0.021670
21-Apr-2023	0.040729	14.887900	22.314400	4.190910	54.433254	2.089290	0.038785	0.407462	0.056270	0.003732	0.002853	0.150386	0.000634	0.014615	0.007757	0.002160	0.021596
22-Apr-2023	0.040729	14.840700	22.243700	4.177620	54.260667	2.082670	0.038662	0.406169	0.056092	0.003720	0.002844	0.149909	0.000632	0.014569	0.007733	0.002153	0.021528
23-Apr-2023	0.040729	14.797100	22.178300	4.165350	54.101270	2.076550	0.038548	0.404975	0.055927	0.003709	0.002835	0.149468	0.000630	0.014526	0.007710	0.002146	0.021464
24-Apr-2023	0.040729	14.756700	22.117700	4.153960	53.953487	2.070880	0.038443	0.403868	0.055774	0.003699	0.002828	0.149059	0.000629	0.014486	0.007689	0.002141	0.021406
25-Apr-2023	0.040729	14.719100	22.061400	4.143370	53.815990	2.065600	0.038345	0.402838	0.055632	0.003690	0.002820	0.148679	0.000627	0.014449	0.007669	0.002135	0.021351
26-Apr-2023	0.040729	14.684100	22.008900	4.133510	53.687992	2.060690	0.038254	0.401880	0.055500	0.003681	0.002814	0.148325	0.000626	0.014415	0.007651	0.002130	0.021300
27-Apr-2023	0.040729	14.651400	21.960000	4.124320	53.568496	2.056110	0.038169	0.400986	0.055376	0.003673	0.002807	0.147995	0.000624	0.014383	0.007634	0.002125	0.021253
28-Apr-2023	0.040729	14.621000	21.914300	4.115740	53.457254	2.051830	0.038089	0.400151	0.055261	0.003665	0.002802	0.147687	0.000623	0.014353	0.007618	0.002121	0.021209
29-Apr-2023	0.040729	14.592600	21.871800	4.107740	53.353396	2.047850	0.038015	0.399373	0.055154	0.003658	0.002796	0.147399	0.000622	0.014325	0.007603	0.002117	0.021168
30-Apr-2023	0.040745	14.566000	21.832000	4.100270	53.256214	2.044120	0.037946	0.398647	0.055053	0.003652	0.002791	0.147131	0.000621	0.014299	0.007589	0.002113	0.021129
1-May-2023	0.040906	14.540300	21.793400	4.093020	53.162185	2.040510	0.037879	0.397942	0.054956	0.003645	0.002786	0.146871	0.000619	0.014274	0.007576	0.002109	0.021092
2-May-2023	0.041804	14.509500	21.747300	4.084360	53.049616	2.036190	0.037799	0.397100	0.054840	0.003637	0.002780	0.146560	0.000618	0.014243	0.007560	0.002105	0.021047
3-May-2023	0.045187	14.439100	21.641800	4.064550	52.792250	2.026320	0.037616	0.395174	0.054574	0.003620	0.002767	0.145849	0.000615	0.014174	0.007523	0.002095	0.020945
4-May-2023	0.048803	14.274900	21.395600	4.018300	52.191785	2.003270	0.037188	0.390677	0.053953	0.003579	0.002735	0.144189	0.000608	0.014013	0.007438	0.002071	0.020707
5-May-2023	0.052732	14.014800	21.005800	3.945090	51.240836	1.966770	0.036510	0.383559	0.052970	0.003513	0.002685	0.141562	0.000597	0.013758	0.007302	0.002033	0.020330
6-May-2023	0.056884	13.709100	20.547600	3.859030	50.123108	1.923860	0.035714	0.375192	0.051814	0.003437	0.002627	0.138474	0.000584	0.013458	0.007143	0.001989	0.019886
7-May-2023	0.060669	13.576200	20.348700	3.821560	49.636955	1.905230	0.035366	0.371543	0.051311	0.003403	0.002601	0.137123	0.000578	0.013327	0.007074	0.001969	0.019693
8-May-2023	0.064729	13.546800	20.304600	3.813290	49.529488	1.901110	0.035290	0.370739	0.051200	0.003396	0.002596	0.136826	0.000577	0.013298	0.007058	0.001965	0.019651
9-May-2023	0.068552	13.506400	20.244000	3.801910	49.381746	1.895430	0.035185	0.369633	0.051047	0.003386	0.002588	0.136418	0.000575	0.013259	0.007037	0.001959	0.019592
10-May-2023	0.075996	13.456100	20.168700	3.787770	49.197919	1.888380	0.035054	0.368258	0.050857	0.003373	0.002578	0.135910	0.000573	0.013209	0.007011	0.001952	0.019519
11-May-2023	0.081743	13.412400	20.103100	3.775450	49.038066	1.882240	0.034940	0.367060	0.050692	0.003362	0.002570	0.135468	0.000571	0.013166	0.006988	0.001946	0.019456
12-May-2023	0.087678	13.350500	20.010300	3.758030	48.811766	1.873550	0.034778	0.365365	0.050458	0.003347	0.002558	0.134843	0.000569	0.013106	0.006956	0.001937	0.019366
13-May-2023	0.092133	13.283500	19.910000	3.739180	48.566843	1.864160	0.034604	0.363533	0.050205	0.003330	0.002545	0.134167	0.000566	0.013040	0.006921	0.001927	0.019269
14-May-2023	0.096527	13.201000	19.786300	3.715940	48.265138	1.852570	0.034389	0.361273	0.049893	0.003309	0.002529	0.133333	0.000562	0.012959	0.006878	0.001915	0.019149
15-May-2023	0.099923	13.113400	19.654900	3.691270	47.944810	1.840270	0.034160	0.358874	0.049562	0.003287	0.002513	0.132448	0.000559	0.012873	0.006833	0.001902	0.019022
16-May-2023	0.108403	13.023200	19.519900	3.665910	47.615148	1.827620	0.033926	0.356407	0.049222	0.003265	0.002495	0.131537	0.000555	0.012784	0.006786	0.001889	0.018891
17-May-2023	0.131776	12.931400	19.382200	3.640040	47.279391	1.814730	0.033686	0.353891	0.048874	0.003242	0.002478	0.130609	0.000551	0.012694	0.006738	0.001876	0.018758
18-May-2023	0.135537	12.829900	19.230000	3.611460	46.908253	1.800480	0.033422	0.351111	0.048491	0.003216	0.002458	0.129583	0.000547	0.012594	0.006685	0.001861	0.018611
19-May-2023	0.138087	12.720100	19.065600	3.580570	46.506877	1.785080	0.033136	0.348106	0.048076	0.003189	0.002437	0.128474	0.000542	0.012487	0.006628	0.001845	0.018452
20-May-2023	0.146624	12.569800	18.840300	3.538240	45.957263	1.763980	0.032744	0.343988	0.047508	0.003151	0.002408	0.126955	0.000535	0.012339	0.006549	0.001823	0.018234
21-May-2023	0.151789	12.357200	18.521600	3.478410	45.180021	1.734130	0.032189	0.338164	0.046706	0.003098	0.002368	0.124808	0.000526	0.012131	0.006439	0.001793	0.017925
22-May-2023	0.156137	12.176400	18.250400	3.427550	44.519122	1.708710	0.031718	0.333208	0.046024	0.003052	0.002333	0.122985	0.000519	0.011953	0.006344	0.001766	0.017663
23-May-2023	0.160851	12.011700	18.002300	3.381520	43.918314	1.685350	0.031285	0.328657	0.045416	0.003011	0.002302	0.121350	0.000512	0.011793	0.006258	0.001742	0.017423
24-May-2023	0.162161	11.737100	17.590000	3.304400	42.915058	1.646590	0.030567	0.321112	0.044387	0.002942	0.002250	0.118591	0.000500	0.011525	0.006115	0.001702	0.017024
25-May-2023	0.166618	11.489200	17.218100	3.234760	42.009274	1.611690	0.029919	0.314310	0.043456	0.002879	0.002203	0.116098	0.000489	0.011282	0.005986	0.001666	0.016664
26-May-2023	0.171975	11.271800	16.892400	3.173500	41.214158	1.581240	0.029354	0.308372	0.042632	0.002825	0.002161	0.113898	0.000480	0.011068	0.005873	0.001635	0.016349
27-May-2023	0.174701	11.117200	16.660400	3.130050	40.649194	1.559490	0.028950	0.304132	0.042050	0.002786	0.002132	0.112342	0.000473	0.010917	0.005792	0.001612	0.016124
28-May-2023	0.177640	10.980900	16.455900	3.091770	40.151216	1.540300	0.028594	0.300392	0.041539	0.002752	0.002106	0.110972	0.000468	0.010783	0.005721	0.001593	0.015926
29-May-2023	0.185941	10.829900	16.229900	3.049140	39.598619	1.519200	0.028203	0.296277	0.040963	0.002714	0.002076	0.109438	0.000461	0.010635	0.005643	0.001571	0.015708
30-May-2023	0.197750	11.522900	17.270200	3.243820	42.130732	1.616830	0.030013	0.315301	0.043564	0.002888	0.002208	0.116403	0.000491	0.011313	0.006004	0.001671	0.016714
31-May-2023	0.208288	11.754200	17.617100	3.308880	42.976205	1.649310	0.030616	0.321630	0.044437	0.002946	0.002253	0.118735	0.000501	0.011540	0.006124	0.001705	0.017050
1-Jun-2023	0.221915	10.622300	15.919800	2.990390	38.838309	1.490370	0.027667	0.290654	0.040163	0.002662	0.002036	0.107318	0.000452	0.010429	0.005534	0.001541	0.015407
2-Jun-2023	0.236821	10.418000	15.608800	2.934150	38.096576	1.460550	0.027118	0.284876	0.039448	0.002610	0.001999	0.105363	0.000444	0.010235	0.005427	0.001511	0.015107
3-Jun-2023	0.271864	9.989650	14.955500	2.816590	36.542874	1.398910	0.026027	0.273531	0.037987	0.002499	0.001924	0.101304	0.000425	0.009830	0.005203	0.001450	0.014498
4-Jun-2023	0.348635	9.632320	14.421200	2.719120	35.249239	1.349060	0.025100	0.263969	0.036970	0.002410	0.001868	0.098178	0.000410	0.009504	0.005017	0.001398	0.013981
5-Jun-2023	0.403283	9.373960	14.013800	2.648170	34.311942	1.309710	0.024450	0.257180	0.036145	0.002339	0.001822	0.095639	0.000398	0.009252	0.004880	0.001362	0.013621
6-Jun-2023	0.454419	9.062600	13.507800	2.576730	33.240286	1.260160	0.023690	0.249576	0.035698	0.002249	0.001792	0.093841	0.000382	0.009035	0.004713	0.001319	0.013193
7-Jun-2023	0.505195	8.944590	13.323800	2.539360	32.791726	1.243200	0.023423	0.246830	0.035207	0.002218	0.001762	0.092281	0.000377	0.008897	0.004651	0.001302	0.013024
8-Jun-2023	0.591703	8.736100	12.987900	2.486750	32.054478	1.210120	0.022893	0.241418	0.034927	0.002158	0.001737	0.090703	0.000367	0.008726	0.004539	0.001273	0.012729
9-Jun-2023	0.676174	8.550150	12.681900	2.443670	31.412758	1.179060	0.022399	0.236351	0.035717	0.002103	0.001724	0.089962	0.000358	0.008604	0.004439	0.001246	0.012465
10-Jun-2023	0.767028	8.386710	12.413700	2.405320	30.846723	1.152090	0.022015	0.232293	0.035992	0.002056	0.001705	0.088860	0.000350	0.008480	0.004351	0.001223	0.012233
11-Jun-2023	0.876374	8.219470	12.140200	2.361460	30.248509	1.124730	0.021560	0.227359	0.035531	0.002007	0.001685	0.087695	0.000341	0.008341	0.004261	0.001200	0.011996

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
12-Jun-2023	1.004250	8.078050	11.903800	2.331580	29.772337	1.101610	0.021278	0.224219	0.035470	0.001967	0.001671	0.086957	0.000334	0.008248	0.004184	0.001181	0.011812
13-Jun-2023	1.168424	7.938740	11.680300	2.296160	29.278621	1.079790	0.020937	0.220533	0.035301	0.001929	0.001656	0.086146	0.000327	0.008139	0.004111	0.001161	0.011607
14-Jun-2023	1.383214	7.825790	11.494100	2.262890	28.859579	1.061950	0.020614	0.217362	0.035246	0.001897	0.001637	0.085119	0.000322	0.008013	0.004050	0.001145	0.011448
15-Jun-2023	1.625089	7.757480	11.376400	2.247350	28.625015	1.050760	0.020485	0.216036	0.035311	0.001878	0.001622	0.084384	0.000318	0.007968	0.004013	0.001136	0.011357
16-Jun-2023	1.867247	7.649440	11.196900	2.221210	28.247594	1.033550	0.020250	0.213644	0.035248	0.001847	0.001611	0.084859	0.000313	0.007888	0.003955	0.001121	0.011210
17-Jun-2023	2.014394	7.528460	10.983600	2.195030	27.837698	1.013370	0.020044	0.211789	0.035089	0.001810	0.001604	0.087483	0.000306	0.007816	0.003889	0.001105	0.011054
18-Jun-2023	2.094071	7.378240	10.723400	2.161110	27.322916	0.988264	0.019799	0.208793	0.035183	0.001767	0.001594	0.089979	0.000298	0.007719	0.003808	0.001085	0.010853
19-Jun-2023	2.175473	7.231670	10.476000	2.126230	26.813295	0.964249	0.019813	0.205379	0.035109	0.001726	0.001579	0.091872	0.000290	0.007614	0.003729	0.001065	0.010650
20-Jun-2023	2.220404	7.160270	10.354800	2.109560	26.566362	0.953187	0.019569	0.204301	0.035338	0.001706	0.001573	0.092159	0.000287	0.007565	0.003690	0.001056	0.010557
21-Jun-2023	2.284476	7.038000	10.149800	2.079960	26.139161	0.933125	0.019420	0.201225	0.035600	0.001673	0.001560	0.092494	0.000280	0.007475	0.003625	0.001038	0.010383
22-Jun-2023	2.345252	6.916950	9.947210	2.050630	25.716118	0.913382	0.019347	0.198248	0.035737	0.001640	0.001547	0.092553	0.000274	0.007386	0.003560	0.001021	0.010212
23-Jun-2023	2.417192	6.827060	9.796210	2.029210	25.403456	0.899001	0.019310	0.196386	0.035835	0.001614	0.001538	0.092594	0.000270	0.007321	0.003511	0.001009	0.010091
24-Jun-2023	2.503554	6.709240	9.595080	2.001810	24.996426	0.879885	0.019304	0.194004	0.035809	0.001581	0.001528	0.092707	0.000263	0.007241	0.003448	0.000993	0.009932
25-Jun-2023	2.592170	6.563060	9.348570	1.966610	24.486461	0.856282	0.019433	0.190613	0.035729	0.001542	0.001513	0.093203	0.000256	0.007136	0.003369	0.000973	0.009727
26-Jun-2023	2.675528	6.476110	9.198400	1.946600	24.186945	0.842436	0.019489	0.189049	0.035754	0.001518	0.001506	0.093585	0.000251	0.007079	0.003323	0.000961	0.009611
27-Jun-2023	2.744217	6.372400	9.018500	1.922710	23.829603	0.825735	0.019499	0.187819	0.035691	0.001491	0.001498	0.094194	0.000246	0.007013	0.003267	0.000947	0.009470
28-Jun-2023	2.800885	6.228010	8.770360	1.888640	23.328760	0.802406	0.019474	0.187093	0.035721	0.001454	0.001493	0.094766	0.000238	0.006921	0.003189	0.000927	0.009268
29-Jun-2023	2.861818	6.143230	8.622160	1.869470	23.038123	0.788755	0.019466	0.186317	0.035736	0.001431	0.001488	0.095218	0.000234	0.006864	0.003143	0.000915	0.009154
30-Jun-2023	2.959034	6.048820	8.457050	1.847900	22.713556	0.773500	0.019525	0.185612	0.035829	0.001407	0.001484	0.095772	0.000228	0.006809	0.003093	0.000902	0.009025
1-Jul-2023	3.054671	5.954220	8.297070	1.827390	22.392879	0.758366	0.019541	0.188021	0.035345	0.001386	0.001477	0.095747	0.000224	0.006766	0.003042	0.000889	0.008894
2-Jul-2023	3.665070	6.223120	8.709320	1.895920	23.346529	0.807591	0.021175	0.225583	0.034186	0.001420	0.001521	0.097573	0.000235	0.007051	0.003189	0.000944	0.009436
3-Jul-2023	4.413399	5.631480	7.724860	1.745440	21.249527	0.718298	0.020070	0.219101	0.033116	0.001323	0.001450	0.096487	0.000206	0.006624	0.002879	0.000862	0.008619
4-Jul-2023	5.283842	5.452010	7.441910	1.708060	20.647460	0.680770	0.018401	0.199588	0.031637	0.001254	0.001418	0.089607	0.000197	0.006389	0.002771	0.000824	0.008240
5-Jul-2023	6.256729	5.302290	7.224940	1.660960	20.079651	0.661586	0.017699	0.192137	0.031414	0.001239	0.001386	0.086286	0.000192	0.006256	0.002698	0.000805	0.008049
6-Jul-2023	7.033596	5.305310	7.244600	1.656810	20.070103	0.680979	0.017193	0.186167	0.031439	0.001262	0.001384	0.083844	0.000194	0.006345	0.002732	0.000814	0.008140
7-Jul-2023	7.957908	5.303380	7.239300	1.657120	20.066560	0.676943	0.017145	0.182979	0.031309	0.001249	0.001385	0.084530	0.000194	0.006323	0.002724	0.000812	0.008118
8-Jul-2023	9.261326	5.455510	7.521490	1.658210	20.450917	0.707524	0.017572	0.190899	0.031396	0.001302	0.001381	0.083258	0.000204	0.006429	0.002818	0.000836	0.008360
9-Jul-2023	9.916928	5.607790	7.795790	1.685790	20.944735	0.733952	0.017280	0.186980	0.031477	0.001347	0.001380	0.080173	0.000213	0.006531	0.002906	0.000858	0.008578
10-Jul-2023	10.234313	5.739770	8.038110	1.710330	21.375345	0.756660	0.017020	0.181414	0.031484	0.001384	0.001382	0.078641	0.000221	0.006609	0.002981	0.000877	0.008771
11-Jul-2023	11.315849	5.650210	7.872400	1.700090	21.109545	0.738352	0.017613	0.190782	0.031379	0.001354	0.001381	0.080426	0.000215	0.006532	0.002923	0.000862	0.008624
12-Jul-2023	11.538422	5.626590	7.825100	1.697780	21.041053	0.732628	0.017668	0.191283	0.031363	0.001353	0.001382	0.081261	0.000213	0.006519	0.002908	0.000858	0.008577
13-Jul-2023	11.451032	5.772470	8.088620	1.720570	21.499165	0.761430	0.017123	0.184241	0.031336	0.001398	0.001385	0.079102	0.000222	0.006626	0.002996	0.000880	0.008798
14-Jul-2023	11.576464	5.748140	8.046080	1.717990	21.427788	0.756597	0.017261	0.185854	0.031218	0.001390	0.001385	0.080041	0.000221	0.006599	0.002980	0.000876	0.008759
15-Jul-2023	11.880583	5.811060	8.161910	1.728000	21.626121	0.768208	0.017234	0.184680	0.031261	0.001410	0.001386	0.080095	0.000225	0.006641	0.003018	0.000885	0.008855
16-Jul-2023	12.477572	6.074700	8.644410	1.768480	22.451127	0.816359	0.017594	0.187025	0.031601	0.001490	0.001391	0.081501	0.000241	0.006835	0.003177	0.000925	0.009254
17-Jul-2023	13.755326	5.845270	8.225800	1.733500	21.734192	0.774258	0.018236	0.198599	0.031266	0.001420	0.001387	0.084594	0.000227	0.006662	0.003038	0.000891	0.008906
18-Jul-2023	14.520363	5.956610	8.421760	1.752070	22.088679	0.798709	0.017621	0.189218	0.031373	0.001474	0.001389	0.080060	0.000234	0.006751	0.003106	0.000907	0.009074
19-Jul-2023	14.646164	6.187230	8.844230	1.787470	22.810315	0.840761	0.017998	0.191637	0.031663	0.001543	0.001393	0.079380	0.000248	0.006918	0.003245	0.000942	0.009424
20-Jul-2023	15.440468	6.413190	9.260460	1.821970	23.516608	0.881344	0.018354	0.195093	0.031940	0.001607	0.001397	0.079163	0.000262	0.007079	0.003381	0.000977	0.009767
21-Jul-2023	15.684446	6.297550	9.052020	1.805760	23.161102	0.860432	0.018144	0.193055	0.031696	0.001572	0.001395	0.079443	0.000255	0.006983	0.003310	0.000959	0.009594
22-Jul-2023	15.630012	6.299190	9.053880	1.805650	23.164744	0.860768	0.018155	0.193168	0.031678	0.001574	0.001395	0.079679	0.000255	0.006985	0.003311	0.000959	0.009594
23-Jul-2023	15.883342	6.292810	9.041890	1.805300	23.147372	0.860314	0.018179	0.193513	0.031615	0.001575	0.001395	0.080056	0.000254	0.006977	0.003306	0.000958	0.009583
24-Jul-2023	16.211149	6.277110	9.014840	1.803200	23.099521	0.857594	0.018147	0.193668	0.031540	0.001571	0.001394	0.080413	0.000254	0.006960	0.003296	0.000956	0.009559
25-Jul-2023	15.321572	6.285490	9.033150	1.805020	23.127941	0.858595	0.018123	0.192947	0.031496	0.001571	0.001394	0.080100	0.000254	0.006958	0.003300	0.000957	0.009573
26-Jul-2023	14.558103	6.282060	9.028570	1.804870	23.118758	0.857824	0.018121	0.193829	0.031433	0.001570	0.001393	0.080780	0.000254	0.006950	0.003297	0.000957	0.009568
27-Jul-2023	14.583421	6.357780	9.166590	1.816380	23.355230	0.871795	0.018352	0.196950	0.031538	0.001594	0.001395	0.082698	0.000259	0.007007	0.003344	0.000968	0.009682
28-Jul-2023	14.067803	6.536860	9.496310	1.844860	23.919673	0.905086	0.018579	0.197597	0.031707	0.001650	0.001398	0.081047	0.000270	0.007130	0.003451	0.000996	0.009956
29-Jul-2023	13.642599	6.500140	9.428480	1.838830	23.803152	0.898404	0.018517	0.196946	0.031663	0.001639	0.001397	0.080865	0.000268	0.007105	0.003429	0.000990	0.009899
30-Jul-2023	14.073642	6.889920	10.146400	1.900360	25.029813	0.969950	0.019202	0.203917	0.032067	0.001757	0.001405	0.080615	0.000292	0.007375	0.003662	0.001049	0.010493
31-Jul-2023	14.295564	6.789470	9.965380	1.885580	24.718125	0.951329	0.018998	0.201860	0.031860	0.001726	0.001402	0.080225	0.000286	0.007293	0.003600	0.001034	0.010342
1-Aug-2023	14.841845	6.670030	9.747870	1.867710	24.346295	0.929171	0.018764	0.199453	0.031635	0.001690	0.001400	0.080169	0.000278	0.007199	0.003527	0.001016	0.010159
2-Aug-2023	14.963129	6.549710	9.523680	1.849260	23.969879	0.907613	0.018843	0.201683	0.031455	0.001659	0.001397	0.082268	0.000271	0.007116	0.003455	0.000997	0.009972
3-Aug-2023	14.967238	6.757190	9.908270	1.881980	24.622697	0.944043	0.018866	0.200432	0.031666	0.001718	0.001401	0.082493	0.000284	0.007257	0.003579	0.001029	0.010290

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
4-Aug-2023	15.210071	6.803560	9.993920	1.890030	24.771633	0.952299	0.018932	0.200982	0.031673	0.001735	0.001402	0.082423	0.000287	0.007284	0.003606	0.001036	0.010361
5-Aug-2023	15.360733	6.762260	9.918930	1.883980	24.643593	0.944690	0.018850	0.200158	0.031583	0.001723	0.001401	0.080812	0.000284	0.007251	0.003581	0.001030	0.010298
6-Aug-2023	15.285864	6.747170	9.893900	1.883200	24.602701	0.940897	0.018763	0.199196	0.031430	0.001719	0.001401	0.081457	0.000284	0.007226	0.003569	0.001027	0.010273
7-Aug-2023	15.520987	6.773040	9.940880	1.887100	24.683359	0.945749	0.018814	0.199720	0.031463	0.001727	0.001401	0.082072	0.000285	0.007246	0.003585	0.001031	0.010313
8-Aug-2023	15.815025	6.827590	10.042300	1.896300	24.857456	0.955280	0.018888	0.200435	0.031504	0.001744	0.001402	0.081586	0.000289	0.007280	0.003617	0.001040	0.010396
9-Aug-2023	15.697907	7.208050	10.739700	1.954580	26.047461	1.024020	0.019515	0.206602	0.031985	0.001858	0.001409	0.082003	0.000312	0.007557	0.003847	0.001097	0.010975
10-Aug-2023	16.143174	7.043660	10.448300	1.932570	25.546342	0.991739	0.019071	0.201973	0.031530	0.001806	0.001405	0.081740	0.000302	0.007404	0.003743	0.001073	0.010730
11-Aug-2023	16.182134	7.159250	10.657300	1.949710	25.905553	1.013060	0.019297	0.204237	0.031700	0.001842	0.001408	0.082068	0.000309	0.007495	0.003814	0.001090	0.010902
12-Aug-2023	15.689122	7.066480	10.483200	1.935030	25.613454	0.995810	0.019139	0.202568	0.031611	0.001817	0.001406	0.081999	0.000304	0.007435	0.003759	0.001076	0.010757
13-Aug-2023	15.549682	7.056050	10.464700	1.933660	25.581769	0.993836	0.019113	0.202307	0.031560	0.001814	0.001406	0.082700	0.000303	0.007425	0.003752	0.001074	0.010741
14-Aug-2023	15.256988	7.140470	10.623800	1.948700	25.854500	1.007540	0.019159	0.202625	0.031513	0.001840	0.001408	0.083625	0.000308	0.007468	0.003800	0.001087	0.010870
15-Aug-2023	15.016049	7.156890	10.647700	1.949980	25.900772	1.010610	0.019221	0.203199	0.031650	0.001847	0.001409	0.083296	0.000309	0.007497	0.003812	0.001089	0.010890
16-Aug-2023	14.945376	7.535880	11.341700	2.008610	27.088548	1.078900	0.019847	0.209352	0.032125	0.001963	0.001416	0.083947	0.000332	0.007773	0.004041	0.001147	0.011466
17-Aug-2023	14.838412	7.304150	10.922800	1.974890	26.371060	1.035880	0.019375	0.204602	0.031665	0.001893	0.001411	0.083079	0.000318	0.007583	0.003898	0.001112	0.011116
18-Aug-2023	14.958913	7.234780	10.796300	1.965100	26.157527	1.022760	0.019226	0.203082	0.031476	0.001874	0.001409	0.083366	0.000314	0.007525	0.003855	0.001101	0.011007
19-Aug-2023	13.595862	7.357440	11.020200	1.984270	26.542752	1.044330	0.019407	0.204797	0.031632	0.001912	0.001412	0.082805	0.000322	0.007615	0.003929	0.001119	0.011194
20-Aug-2023	13.176386	7.371520	11.048500	1.987320	26.590469	1.046310	0.019390	0.204590	0.031565	0.001916	0.001412	0.083933	0.000323	0.007616	0.003936	0.001122	0.011216
21-Aug-2023	12.928800	7.391090	11.086300	1.990870	26.653954	1.049360	0.019395	0.204591	0.031544	0.001921	0.001412	0.085065	0.000324	0.007624	0.003947	0.001125	0.011246
22-Aug-2023	12.582950	7.343600	11.006900	1.986810	26.518653	1.038200	0.019252	0.203131	0.031404	0.001907	0.001411	0.084658	0.000322	0.007569	0.003914	0.001118	0.011178
23-Aug-2023	12.260721	7.690690	11.634000	2.038510	27.598237	1.102710	0.019855	0.209048	0.031854	0.002018	0.001418	0.084491	0.000343	0.007836	0.004127	0.001170	0.011698
24-Aug-2023	12.377414	7.560380	11.397700	2.018920	27.192181	1.078660	0.019601	0.206491	0.031636	0.001978	0.001415	0.085694	0.000335	0.007734	0.004047	0.001150	0.011502
25-Aug-2023	11.219645	7.453760	11.203900	2.004650	26.867187	1.057830	0.019335	0.203781	0.031313	0.001967	0.001413	0.085248	0.000328	0.007641	0.003980	0.001134	0.011337
26-Aug-2023	10.938676	7.449560	11.196800	2.004380	26.855588	1.056800	0.019310	0.203536	0.031261	0.001963	0.001413	0.085606	0.000328	0.007634	0.003977	0.001133	0.011331
27-Aug-2023	10.876561	7.602410	11.477000	2.027700	27.333286	1.084530	0.019571	0.206096	0.031465	0.001995	0.001416	0.084788	0.000338	0.007747	0.004070	0.001156	0.011563
28-Aug-2023	9.729722	7.572150	11.422400	2.024140	27.243067	1.077610	0.019451	0.204770	0.031371	0.001986	0.001415	0.083498	0.000336	0.007717	0.004050	0.001152	0.011516
29-Aug-2023	9.255381	7.588900	11.455400	2.027540	27.298893	1.080030	0.019434	0.204513	0.031301	0.001991	0.001415	0.084552	0.000337	0.007721	0.004059	0.001154	0.011542
30-Aug-2023	9.250818	7.659320	11.585800	2.039080	27.522253	1.092160	0.019515	0.205253	0.031338	0.002013	0.001416	0.084769	0.000341	0.007766	0.004101	0.001165	0.011648
31-Aug-2023	9.583308	7.754990	11.760200	2.053870	27.822047	1.109420	0.019677	0.206848	0.031455	0.002043	0.001418	0.086040	0.000347	0.007836	0.004159	0.001179	0.011793
1-Sep-2023	9.436265	7.704160	11.669800	2.046980	27.666751	1.099160	0.019526	0.205246	0.031310	0.002027	0.001417	0.084668	0.000344	0.007789	0.004126	0.001172	0.011716
2-Sep-2023	9.345631	7.759840	11.772600	2.055460	27.840705	1.109290	0.019616	0.206131	0.031353	0.002044	0.001418	0.085748	0.000348	0.007828	0.004160	0.001180	0.011800
3-Sep-2023	9.164588	7.913030	12.055200	2.078490	28.318058	1.137460	0.019881	0.208765	0.031542	0.002091	0.001420	0.085349	0.000357	0.007939	0.004253	0.001203	0.012033
4-Sep-2023	9.198566	8.011370	12.236100	2.093430	28.625136	1.155380	0.020042	0.210357	0.031641	0.002123	0.001421	0.084517	0.000363	0.008009	0.004313	0.001218	0.012181
5-Sep-2023	8.842780	7.870400	11.980900	2.071830	28.184185	1.129620	0.019773	0.207642	0.031394	0.002080	0.001417	0.085130	0.000355	0.007899	0.004227	0.001197	0.011967
6-Sep-2023	8.287394	7.939310	12.109500	2.082290	28.399327	1.142230	0.019878	0.208656	0.031438	0.002102	0.001418	0.085253	0.000359	0.007944	0.004269	0.001207	0.012071
7-Sep-2023	8.066311	7.994310	12.211700	2.090650	28.571089	1.152230	0.019959	0.209429	0.031470	0.002120	0.001418	0.085443	0.000363	0.007981	0.004302	0.001215	0.012154
8-Sep-2023	7.721115	7.996380	12.217200	2.091010	28.577740	1.152570	0.019946	0.209274	0.031423	0.002123	0.001417	0.085501	0.000363	0.007979	0.004303	0.001216	0.012156
9-Sep-2023	7.493121	8.045760	12.308400	2.098490	28.731845	1.161610	0.020028	0.210099	0.031475	0.002138	0.001418	0.085554	0.000366	0.008013	0.004333	0.001223	0.012231
10-Sep-2023	7.294188	8.142170	12.485500	2.113280	29.033486	1.179150	0.020181	0.211601	0.031550	0.002172	0.001419	0.085732	0.000372	0.008082	0.004392	0.001237	0.012375
11-Sep-2023	6.849255	8.119530	12.444700	2.109710	28.962252	1.175030	0.020142	0.211210	0.031526	0.002163	0.001418	0.086166	0.000371	0.008065	0.004378	0.001234	0.012342
12-Sep-2023	6.311484	8.293190	12.765900	2.135800	29.503320	1.206880	0.020432	0.214087	0.031724	0.002215	0.001420	0.085707	0.000381	0.008188	0.004483	0.001261	0.012606
13-Sep-2023	6.040500	8.218910	12.634000	2.124310	29.270527	1.193310	0.020272	0.212432	0.031555	0.002194	0.001418	0.085570	0.000377	0.008125	0.004438	0.001249	0.012493
14-Sep-2023	5.288498	8.237670	12.667200	2.127480	29.330425	1.196600	0.020304	0.212765	0.031566	0.002201	0.001418	0.085303	0.000378	0.008139	0.004449	0.001252	0.012520
15-Sep-2023	4.765456	8.287120	12.760300	2.134910	29.484498	1.205650	0.020375	0.213443	0.031595	0.002215	0.001418	0.085588	0.000381	0.008171	0.004479	0.001260	0.012595
16-Sep-2023	3.966768	8.307460	12.799600	2.138030	29.548135	1.209400	0.020398	0.213661	0.031576	0.002222	0.001418	0.085877	0.000383	0.008181	0.004491	0.001263	0.012626
17-Sep-2023	3.657634	8.368490	12.912000	2.147370	29.738989	1.220530	0.020501	0.214683	0.031643	0.002241	0.001419	0.085813	0.000386	0.008225	0.004528	0.001272	0.012719
18-Sep-2023	3.400329	8.540500	13.230400	2.173130	30.274578	1.252180	0.020790	0.217555	0.031838	0.002293	0.001421	0.086024	0.000397	0.008346	0.004632	0.001298	0.012981
19-Sep-2023	2.969533	8.436290	13.040800	2.157460	29.949836	1.232970	0.020588	0.215512	0.031650	0.002262	0.001419	0.085704	0.000391	0.008265	0.004569	0.001282	0.012821
20-Sep-2023	2.797851	8.452920	13.070900	2.160010	30.001862	1.235980	0.020619	0.215822	0.031675	0.002267	0.001419	0.086268	0.000392	0.008278	0.004579	0.001285	0.012846
21-Sep-2023	2.672771	8.518840	13.201700	2.169390	30.205092	1.248460	0.020684	0.216416	0.031679	0.002289	0.001419	0.085918	0.000396	0.008308	0.004618	0.001295	0.012948
22-Sep-2023	2.818345	9.018840	14.107000	2.245850	31.768454	1.339430	0.021614	0.225715	0.032427	0.002441	0.001429	0.087159	0.000427	0.008697	0.004923	0.001370	0.013703
23-Sep-2023	2.742003	8.777430	13.672000	2.208730	31.012793	1.295530	0.021150	0.221045	0.031996	0.002369	0.001422	0.086368	0.000412	0.008505	0.004776	0.001334	0.013338
24-Sep-2023	2.366733	8.697990	13.529100	2.196620	30.764562	1.281090	0.020993	0.219468	0.031831	0.002346	0.001419	0.086137	0.000407	0.008441	0.004727	0.001322	0.013217
25-Sep-2023	1.973256	8.689490	13.515700	2.195340	30.738067	1.279550	0.020965	0.219167	0.031779	0.002343	0.001419	0.086068	0.000407	0.008430	0.004722	0.001320	0.013205

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
26-Sep-2023	1.792687	8.746340	13.620400	2.203960	30.915518	1.289930	0.021060	0.220097	0.031842	0.002360	0.001419	0.086216	0.000411	0.008471	0.004756	0.001329	0.013291
27-Sep-2023	1.542446	8.746430	13.629400	2.203380	30.913355	1.290270	0.021016	0.219624	0.031731	0.002360	0.001418	0.086123	0.000411	0.008455	0.004756	0.001329	0.013293
28-Sep-2023	1.675049	8.811810	13.747800	2.213390	31.117830	1.302170	0.021137	0.220829	0.031835	0.002380	0.001418	0.086217	0.000415	0.008506	0.004796	0.001339	0.013392
29-Sep-2023	1.653974	8.849650	13.813100	2.219280	31.236571	1.308820	0.021216	0.221605	0.031921	0.002392	0.001420	0.086431	0.000417	0.008541	0.004819	0.001345	0.013447
30-Sep-2023	1.531916	9.432050	14.879900	2.307610	33.054567	1.415430	0.022250	0.231915	0.032728	0.002569	0.001431	0.087994	0.000453	0.008972	0.005173	0.001433	0.014331
1-Oct-2023	1.229795	9.142190	14.356700	2.263250	32.148112	1.362670	0.021698	0.226398	0.032215	0.002481	0.001423	0.087035	0.000435	0.008743	0.004996	0.001389	0.013892
2-Oct-2023	1.262044	8.879650	13.875000	2.223050	31.327006	1.314610	0.021235	0.221795	0.031875	0.002401	0.001418	0.086455	0.000419	0.008552	0.004837	0.001349	0.013494
3-Oct-2023	1.266468	8.828070	13.779800	2.215240	31.166049	1.305090	0.021141	0.220821	0.031792	0.002387	0.001417	0.086360	0.000416	0.008514	0.004806	0.001341	0.013414
4-Oct-2023	1.477487	8.790870	13.713100	2.208890	31.047011	1.298620	0.021077	0.220207	0.031746	0.002376	0.001415	0.086424	0.000414	0.008487	0.004784	0.001336	0.013358
5-Oct-2023	1.516876	8.790660	13.713200	2.208690	31.045663	1.298650	0.021077	0.220207	0.031743	0.002376	0.001415	0.086221	0.000414	0.008486	0.004784	0.001336	0.013359
6-Oct-2023	2.216738	8.761670	13.661700	2.203710	30.952768	1.293640	0.021027	0.219753	0.031708	0.002367	0.001414	0.086149	0.000412	0.008464	0.004767	0.001332	0.013316
7-Oct-2023	2.058562	8.744750	13.632200	2.200600	30.897712	1.290770	0.020997	0.219480	0.031690	0.002361	0.001413	0.086615	0.000411	0.008451	0.004757	0.001329	0.013292
8-Oct-2023	1.541984	8.740390	13.624400	2.199840	30.883695	1.290020	0.020990	0.219407	0.031683	0.002359	0.001413	0.087135	0.000411	0.008448	0.004754	0.001329	0.013286
9-Oct-2023	1.125185	8.740430	13.626100	2.199310	30.881612	1.290210	0.020985	0.219348	0.031665	0.002360	0.001412	0.086687	0.000411	0.008446	0.004754	0.001329	0.013285
10-Oct-2023	0.728614	8.720670	13.589800	2.196260	30.819712	1.286680	0.020953	0.219053	0.031643	0.002354	0.001412	0.086421	0.000410	0.008432	0.004743	0.001326	0.013256
11-Oct-2023	0.720942	8.653100	13.467300	2.185000	30.604621	1.274860	0.020838	0.217960	0.031537	0.002337	0.001409	0.085885	0.000406	0.008382	0.004703	0.001315	0.013153
12-Oct-2023	0.688357	8.645910	13.456700	2.183150	30.579049	1.273800	0.020823	0.217820	0.031535	0.002333	0.001408	0.085895	0.000406	0.008376	0.004699	0.001314	0.013144
13-Oct-2023	0.735976	8.643110	13.453100	2.182440	30.569134	1.273460	0.020817	0.217758	0.031528	0.002332	0.001408	0.086184	0.000405	0.008373	0.004697	0.001314	0.013141
14-Oct-2023	0.609005	8.627750	13.424700	2.179850	30.520114	1.270710	0.020790	0.217507	0.031502	0.002328	0.001407	0.085952	0.000404	0.008362	0.004688	0.001312	0.013117
15-Oct-2023	0.590653	8.615500	13.403300	2.177590	30.480219	1.268640	0.020768	0.217300	0.031486	0.002324	0.001406	0.085984	0.000404	0.008352	0.004681	0.001310	0.013099
16-Oct-2023	0.558412	8.602180	13.379800	2.175210	30.437158	1.266360	0.020745	0.217076	0.031465	0.002320	0.001406	0.085764	0.000403	0.008342	0.004673	0.001308	0.013080
17-Oct-2023	0.563091	8.675210	13.492500	2.193970	30.696768	1.277020	0.020923	0.218953	0.031741	0.002340	0.001418	0.086635	0.000406	0.008414	0.004713	0.001319	0.013191
18-Oct-2023	0.559473	8.743810	13.597400	2.211940	30.942062	1.286910	0.021094	0.220755	0.032009	0.002358	0.001430	0.087668	0.000410	0.008482	0.004749	0.001330	0.013295
19-Oct-2023	0.557633	8.814750	13.706800	2.230200	31.194394	1.297250	0.021268	0.222583	0.032283	0.002377	0.001443	0.088557	0.000413	0.008552	0.004788	0.001340	0.013403
20-Oct-2023	0.556831	8.883380	13.814700	2.247190	31.435728	1.307490	0.021430	0.224275	0.032522	0.002396	0.001453	0.089324	0.000416	0.008617	0.004825	0.001351	0.013507
21-Oct-2023	0.557893	8.893680	13.829000	2.250350	31.474460	1.308820	0.021460	0.224594	0.032572	0.002398	0.001456	0.089416	0.000416	0.008629	0.004831	0.001352	0.013523
22-Oct-2023	0.556512	8.876240	13.800900	2.246250	31.414029	1.306150	0.021420	0.224185	0.032513	0.002394	0.001457	0.089547	0.000416	0.008613	0.004821	0.001350	0.013497
23-Oct-2023	0.554927	8.859780	13.774100	2.244600	31.366133	1.303590	0.021385	0.223889	0.032494	0.002393	0.001467	0.090114	0.000415	0.008598	0.004812	0.001347	0.013472
24-Oct-2023	0.552404	8.862460	13.777400	2.258230	31.428954	1.303870	0.021496	0.225260	0.032693	0.002407	0.001475	0.090613	0.000415	0.008633	0.004813	0.001348	0.013476
25-Oct-2023	0.548321	8.896000	13.822800	2.273100	31.573938	1.308180	0.021640	0.226763	0.032911	0.002423	0.001485	0.091173	0.000416	0.008691	0.004829	0.001352	0.013521
26-Oct-2023	0.543452	8.954530	13.857700	2.287130	31.777863	1.311340	0.021776	0.228184	0.033116	0.002438	0.001494	0.091659	0.000417	0.008746	0.004853	0.001360	0.013598
27-Oct-2023	0.539668	9.013770	13.950100	2.301270	31.984014	1.319970	0.021913	0.229609	0.033321	0.002453	0.001502	0.092141	0.000419	0.008801	0.004885	0.001369	0.013689
28-Oct-2023	0.539482	9.075560	14.047700	2.316420	32.200691	1.329220	0.022059	0.231127	0.033540	0.002469	0.001512	0.092694	0.000422	0.008860	0.004919	0.001378	0.013783
29-Oct-2023	0.540611	9.141980	14.150200	2.333460	32.436712	1.338920	0.022221	0.232824	0.033787	0.002487	0.001523	0.093383	0.000425	0.008925	0.004955	0.001388	0.013884
30-Oct-2023	0.542503	9.213190	14.257800	2.352480	32.692848	1.349070	0.022400	0.234714	0.034062	0.002508	0.001536	0.094216	0.000428	0.008996	0.004993	0.001399	0.013991
31-Oct-2023	0.544488	9.274550	14.353000	2.368080	32.910305	1.358070	0.022548	0.236258	0.034287	0.002524	0.001546	0.094830	0.000431	0.009056	0.005027	0.001408	0.014085
1-Nov-2023	0.546838	9.341680	14.453600	2.386270	33.152835	1.367570	0.022720	0.238077	0.034553	0.002543	0.001559	0.095645	0.000434	0.009124	0.005063	0.001419	0.014186
2-Nov-2023	0.548449	9.402220	14.544600	2.402550	33.371044	1.376180	0.022875	0.239716	0.034793	0.002561	0.001570	0.096368	0.000437	0.009186	0.005095	0.001428	0.014277
3-Nov-2023	0.548873	9.445780	14.611300	2.413880	33.526471	1.382500	0.022983	0.240856	0.034959	0.002573	0.001577	0.096840	0.000439	0.009229	0.005118	0.001434	0.014343
4-Nov-2023	0.547802	9.510000	14.709200	2.430730	33.756216	1.391770	0.023144	0.242545	0.035205	0.002591	0.001589	0.097554	0.000442	0.009293	0.005153	0.001444	0.014441
5-Nov-2023	0.544279	9.573450	14.806300	2.447260	33.982721	1.400960	0.023301	0.244201	0.035445	0.002608	0.001600	0.098244	0.000445	0.009356	0.005187	0.001454	0.014537
6-Nov-2023	0.541659	9.631320	14.895200	2.462240	34.188910	1.409380	0.023444	0.245700	0.035663	0.002624	0.001610	0.098863	0.000447	0.009413	0.005219	0.001462	0.014624
7-Nov-2023	0.541305	9.691580	14.986100	2.478320	34.405597	1.417990	0.023597	0.247323	0.035900	0.002641	0.001621	0.099568	0.000450	0.009474	0.005251	0.001472	0.014716
8-Nov-2023	0.542475	9.753630	15.079700	2.494900	34.628812	1.426860	0.023756	0.248997	0.036144	0.002659	0.001632	0.100294	0.000453	0.009537	0.005284	0.001481	0.014809
9-Nov-2023	0.545064	9.817350	15.175600	2.511970	34.858215	1.435960	0.023919	0.250724	0.036397	0.002677	0.001644	0.101046	0.000456	0.009602	0.005318	0.001491	0.014906
10-Nov-2023	0.546590	9.885930	15.279600	2.530160	35.104366	1.445800	0.024093	0.252555	0.036664	0.002696	0.001656	0.101829	0.000459	0.009671	0.005355	0.001501	0.015010
11-Nov-2023	0.546636	9.957280	15.388600	2.548810	35.359328	1.456110	0.024270	0.254423	0.036937	0.002716	0.001669	0.102609	0.000462	0.009742	0.005394	0.001512	0.015118
12-Nov-2023	0.545794	10.028000	15.497500	2.567020	35.610904	1.466420	0.024443	0.256242	0.037203	0.002735	0.001681	0.103347	0.000465	0.009811	0.005432	0.001523	0.015225
13-Nov-2023	0.544130	10.092700	15.598600	2.583260	35.839337	1.475970	0.024598	0.257861	0.037438	0.002752	0.001691	0.103969	0.000468	0.009874	0.005467	0.001532	0.015324
14-Nov-2023	0.541175	10.144700	15.682500	2.595530	36.019708	1.483910	0.024716	0.259080	0.037615	0.002765	0.001698	0.104367	0.000471	0.009922	0.005496	0.001540	0.015404
15-Nov-2023	0.537661	10.190900	15.757900	2.606080	36.178515	1.491050	0.024818	0.260128	0.037766	0.002776	0.001704	0.104678	0.000473	0.009963	0.005521	0.001547	0.015475
16-Nov-2023	0.535024	10.235000	15.829800	2.616210	36.330348	1.497860	0.024915	0.261133	0.037911	0.002787	0.001710	0.104983	0.000475	0.010003	0.005546	0.001554	0.015543
17-Nov-2023	0.534388	10.279700	15.902100	2.626680	36.485079	1.504700	0.025016	0.262173	0.038061	0.002798	0.001716	0.105316	0.000478	0.010044	0.005570	0.001561	0.015611

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
18-Nov-2023	0.534400	10.238000	15.839500	2.615490	36.334874	1.498780	0.024910	0.261055	0.037900	0.002786	0.001709	0.104824	0.000476	0.010002	0.005548	0.001555	0.015549
19-Nov-2023	0.534355	10.280700	15.909100	2.625270	36.481770	1.505370	0.025004	0.262027	0.038040	0.002796	0.001714	0.105106	0.000478	0.010040	0.005572	0.001561	0.015614
20-Nov-2023	0.534761	10.324700	15.980400	2.635560	36.634012	1.512120	0.025103	0.263051	0.038188	0.002807	0.001721	0.105431	0.000480	0.010081	0.005596	0.001568	0.015682
21-Nov-2023	0.535261	10.368800	16.051000	2.646050	36.787328	1.518800	0.025204	0.264097	0.038340	0.002818	0.001727	0.105782	0.000482	0.010122	0.005620	0.001575	0.015750
22-Nov-2023	0.535534	10.412000	16.119900	2.656490	36.938190	1.525320	0.025304	0.265139	0.038491	0.002829	0.001733	0.106144	0.000484	0.010162	0.005644	0.001582	0.015816
23-Nov-2023	0.535657	10.455600	16.188700	2.667190	37.091122	1.531830	0.025406	0.266207	0.038646	0.002841	0.001740	0.106533	0.000487	0.010204	0.005668	0.001588	0.015883
24-Nov-2023	0.536573	10.490600	16.241800	2.676490	37.216814	1.536850	0.025494	0.267135	0.038782	0.002851	0.001746	0.106932	0.000488	0.010239	0.005687	0.001594	0.015936
25-Nov-2023	0.537897	10.538500	16.316800	2.688420	37.385548	1.543950	0.025608	0.268325	0.038955	0.002863	0.001754	0.107381	0.000490	0.010285	0.005713	0.001601	0.016009
26-Nov-2023	0.538708	10.595900	16.406600	2.702820	37.588175	1.552440	0.025746	0.269763	0.039164	0.002878	0.001763	0.107933	0.000493	0.010340	0.005744	0.001610	0.016096
27-Nov-2023	0.538873	10.654600	16.498200	2.717560	37.795448	1.561120	0.025886	0.271234	0.039378	0.002894	0.001773	0.108500	0.000496	0.010397	0.005776	0.001619	0.016185
28-Nov-2023	0.539000	10.709800	16.584200	2.731450	37.990482	1.569250	0.026019	0.272619	0.039579	0.002909	0.001782	0.109037	0.000498	0.010450	0.005806	0.001627	0.016269
29-Nov-2023	0.539242	10.515300	16.285100	2.681260	37.298133	1.540950	0.025542	0.267613	0.038853	0.002855	0.001748	0.106974	0.000489	0.010259	0.005701	0.001597	0.015975
30-Nov-2023	0.538875	10.568500	16.368000	2.694680	37.486237	1.548790	0.025670	0.268953	0.039047	0.002870	0.001757	0.107496	0.000492	0.010310	0.005730	0.001606	0.016056
1-Dec-2023	0.538640	10.620900	16.448700	2.708190	37.672714	1.556430	0.025798	0.270301	0.039244	0.002884	0.001766	0.108087	0.000494	0.010362	0.005758	0.001614	0.016135
2-Dec-2023	0.538521	10.686200	16.544600	2.726420	37.910839	1.565490	0.025970	0.272120	0.039510	0.002903	0.001779	0.108909	0.000497	0.010430	0.005793	0.001623	0.016233
3-Dec-2023	0.538331	10.757200	16.651800	2.745410	38.166327	1.575610	0.026149	0.274016	0.039787	0.002923	0.001792	0.109742	0.000500	0.010501	0.005831	0.001634	0.016340
4-Dec-2023	0.538314	10.579800	16.379200	2.699520	37.534384	1.549820	0.025713	0.269439	0.039123	0.002874	0.001762	0.107848	0.000492	0.010326	0.005735	0.001607	0.016071
5-Dec-2023	0.538066	10.638300	16.471900	2.713790	37.739222	1.558610	0.025850	0.270865	0.039329	0.002890	0.001770	0.108362	0.000495	0.010382	0.005767	0.001616	0.016161
6-Dec-2023	0.537443	10.698000	16.566200	2.728420	37.948540	1.567540	0.025990	0.272326	0.039540	0.002905	0.001780	0.108895	0.000498	0.010438	0.005800	0.001625	0.016252
7-Dec-2023	0.537225	10.762300	16.667300	2.744360	38.174738	1.577110	0.026143	0.273917	0.039771	0.002922	0.001790	0.109491	0.000501	0.010500	0.005835	0.001635	0.016350
8-Dec-2023	0.537429	10.831400	16.774900	2.761750	38.418892	1.587300	0.026309	0.275652	0.040022	0.002941	0.001801	0.110166	0.000504	0.010567	0.005872	0.001646	0.016455
9-Dec-2023	0.537324	10.895100	16.873700	2.777950	38.644663	1.596640	0.026463	0.277268	0.040257	0.002958	0.001811	0.110808	0.000507	0.010629	0.005907	0.001655	0.016552
10-Dec-2023	0.536837	10.951200	16.960500	2.792270	38.843714	1.604860	0.026599	0.278696	0.040465	0.002973	0.001821	0.111380	0.000510	0.010683	0.005937	0.001664	0.016637
11-Dec-2023	0.536890	10.995600	17.029500	2.803580	39.001156	1.611380	0.026707	0.279824	0.040628	0.002985	0.001828	0.111828	0.000512	0.010727	0.005961	0.001670	0.016705
12-Dec-2023	0.536466	11.032500	17.087900	2.812570	39.130316	1.616900	0.026793	0.280721	0.040758	0.002995	0.001834	0.112152	0.000514	0.010762	0.005982	0.001676	0.016761
13-Dec-2023	0.535931	11.072900	17.151900	2.822450	39.271880	1.622970	0.026888	0.281706	0.040901	0.003005	0.001840	0.112508	0.000516	0.010800	0.006004	0.001682	0.016823
14-Dec-2023	0.536356	11.116300	17.221600	2.832700	39.422460	1.629570	0.026986	0.282729	0.041048	0.003016	0.001846	0.112847	0.000518	0.010840	0.006028	0.001689	0.016889
15-Dec-2023	0.536020	11.161100	17.295200	2.842830	39.576041	1.636560	0.027085	0.283741	0.041193	0.003027	0.001852	0.113139	0.000520	0.010880	0.006053	0.001696	0.016959
16-Dec-2023	0.535269	11.199400	17.358300	2.851420	39.707049	1.642540	0.027168	0.284598	0.041316	0.003036	0.001857	0.113379	0.000522	0.010914	0.006074	0.001702	0.017018
17-Dec-2023	0.535579	11.235500	17.416600	2.859890	39.832071	1.648070	0.027250	0.285444	0.041438	0.003045	0.001862	0.113654	0.000524	0.010947	0.006094	0.001707	0.017073
18-Dec-2023	0.535554	11.283600	17.492100	2.871810	40.001263	1.655210	0.027364	0.286633	0.041610	0.003058	0.001869	0.114100	0.000526	0.010993	0.006120	0.001715	0.017146
19-Dec-2023	0.534855	11.316600	17.545100	2.879660	40.115990	1.660240	0.027439	0.287416	0.041723	0.003066	0.001874	0.114363	0.000528	0.011024	0.006138	0.001720	0.017197
20-Dec-2023	0.535056	11.348300	17.598100	2.886530	40.223436	1.665270	0.027506	0.288104	0.041821	0.003074	0.001878	0.114534	0.000529	0.011052	0.006156	0.001725	0.017246
21-Dec-2023	0.535176	11.401200	17.682800	2.899130	40.407414	1.673300	0.027628	0.289362	0.042002	0.003087	0.001885	0.114961	0.000532	0.011101	0.006185	0.001733	0.017327
22-Dec-2023	0.534414	11.410800	17.700500	2.900660	40.437685	1.674980	0.027644	0.289515	0.042023	0.003089	0.001886	0.114944	0.000532	0.011108	0.006191	0.001734	0.017342
23-Dec-2023	0.534442	11.433300	17.738200	2.905570	40.514087	1.678560	0.027692	0.290006	0.042093	0.003094	0.001888	0.115067	0.000534	0.011127	0.006203	0.001738	0.017377
24-Dec-2023	0.534576	11.472200	17.800300	2.914870	40.649518	1.684450	0.027781	0.290934	0.042227	0.003104	0.001894	0.115385	0.000535	0.011164	0.006225	0.001744	0.017437
25-Dec-2023	0.533987	11.497900	17.841800	2.920870	40.738399	1.688380	0.027839	0.291533	0.042313	0.003110	0.001897	0.115578	0.000537	0.011187	0.006239	0.001748	0.017476
26-Dec-2023	0.534012	11.520100	17.877700	2.926100	40.815370	1.691780	0.027889	0.292055	0.042389	0.003116	0.001901	0.115749	0.000538	0.011208	0.006251	0.001751	0.017510
27-Dec-2023	0.534169	11.526300	17.889100	2.927070	40.834845	1.692870	0.027899	0.292152	0.042402	0.003117	0.001901	0.115742	0.000538	0.011212	0.006255	0.001752	0.017520
28-Dec-2023	0.533668	11.557500	17.938300	2.934770	40.944460	1.697530	0.027973	0.292921	0.042513	0.003125	0.001906	0.116021	0.000540	0.011242	0.006272	0.001757	0.017568
29-Dec-2023	0.533497	11.589900	17.989200	2.942820	41.058513	1.702350	0.028050	0.293725	0.042629	0.003134	0.001911	0.116325	0.000541	0.011273	0.006290	0.001762	0.017617
30-Dec-2023	0.533723	11.625300	18.044500	2.951700	41.183475	1.707590	0.028135	0.294610	0.042758	0.003143	0.001916	0.116665	0.000543	0.011307	0.006309	0.001767	0.017671
31-Dec-2023	0.533664	11.669600	18.113400	2.962860	41.340049	1.714110	0.028241	0.295724	0.042919	0.003155	0.001924	0.117100	0.000545	0.011350	0.006333	0.001774	0.017738
1-Jan-2024	0.533481	11.707500	18.172500	2.972400	41.473971	1.719700	0.028332	0.296676	0.043057	0.003165	0.001930	0.117470	0.000547	0.011386	0.006354	0.001780	0.017796
2-Jan-2024	0.533752	11.741400	18.225400	2.980940	41.593787	1.724700	0.028414	0.297528	0.043180	0.003174	0.001935	0.117802	0.000548	0.011419	0.006372	0.001785	0.017848
3-Jan-2024	0.533852	11.769100	18.268700	2.987920	41.691697	1.728800	0.028480	0.298225	0.043282	0.003182	0.001940	0.118073	0.000550	0.011446	0.006387	0.001789	0.017890
4-Jan-2024	0.533551	11.792500	18.304800	2.993900	41.774753	1.732220	0.028537	0.298821	0.043368	0.003188	0.001944	0.118313	0.000551	0.011469	0.006400	0.001793	0.017925
5-Jan-2024	0.533721	11.818300	18.344400	3.000570	41.866642	1.735960	0.028601	0.299486	0.043465	0.003195	0.001948	0.118588	0.000552	0.011494	0.006414	0.001796	0.017964
6-Jan-2024	0.533796	11.853800	18.399000	3.009740	41.993048	1.741130	0.028688	0.300401	0.043598	0.003205	0.001954	0.118963	0.000554	0.011529	0.006433	0.001802	0.018018
7-Jan-2024	0.533348	11.897800	18.466800	3.021090	42.149655	1.747540	0.028796	0.301533	0.043762	0.003217	0.001962	0.119427	0.000556	0.011572	0.006457	0.001809	0.018085
8-Jan-2024	0.533348	11.940400	18.532300	3.032080	42.301284	1.753740	0.028900	0.302630	0.043922	0.003229	0.001969	0.119877	0.000558	0.011614	0.006480	0.001815	0.018150
9-Jan-2024	0.533618	11.984100	18.599600	3.043370	42.456895	1.760100	0.029007	0.303756	0.044085	0.003241	0.001976	0.120339	0.000560	0.011657	0.006503	0.001822	0.018216

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
10-Jan-2024	0.533472	12.037900	18.682300	3.057220	42.648268	1.767930	0.029139	0.305139	0.044286	0.003256	0.001985	0.120905	0.000562	0.011710	0.006532	0.001830	0.018297
11-Jan-2024	0.533279	12.089100	18.761500	3.070390	42.830349	1.775420	0.029264	0.306452	0.044477	0.003270	0.001994	0.121437	0.000564	0.011760	0.006560	0.001838	0.018375
12-Jan-2024	0.533497	12.139300	18.839200	3.083180	43.008367	1.782770	0.029386	0.307729	0.044662	0.003283	0.002002	0.121948	0.000567	0.011809	0.006587	0.001845	0.018452
13-Jan-2024	0.533536	12.193300	18.922900	3.096920	43.199787	1.790690	0.029517	0.309099	0.044861	0.003298	0.002011	0.122493	0.000569	0.011862	0.006617	0.001853	0.018534
14-Jan-2024	0.533249	12.251100	19.012200	3.111680	43.404895	1.799150	0.029658	0.310573	0.045075	0.003314	0.002021	0.123086	0.000572	0.011918	0.006648	0.001862	0.018621
15-Jan-2024	0.533382	12.311100	19.104600	3.127160	43.618462	1.807890	0.029805	0.312117	0.045300	0.003330	0.002031	0.123718	0.000575	0.011977	0.006680	0.001871	0.018712
16-Jan-2024	0.533596	12.368200	19.192800	3.141780	43.821245	1.816230	0.029944	0.313576	0.045512	0.003346	0.002041	0.124307	0.000577	0.012033	0.006711	0.001880	0.018799
17-Jan-2024	0.533482	12.425400	19.282000	3.156230	44.023579	1.824660	0.030082	0.315019	0.045721	0.003361	0.002050	0.124871	0.000580	0.012089	0.006743	0.001889	0.018886
18-Jan-2024	0.533285	12.482600	19.371300	3.170580	44.225501	1.833120	0.030219	0.316451	0.045928	0.003376	0.002059	0.125424	0.000583	0.012144	0.006774	0.001897	0.018973
19-Jan-2024	0.533351	12.539100	19.459500	3.184730	44.424851	1.841470	0.030354	0.317864	0.046133	0.003391	0.002068	0.125967	0.000585	0.012198	0.006804	0.001906	0.019059
20-Jan-2024	0.533439	12.594300	19.545900	3.198550	44.619596	1.849650	0.030486	0.319243	0.046333	0.003406	0.002077	0.126496	0.000588	0.012251	0.006834	0.001914	0.019143
21-Jan-2024	0.533268	12.646600	19.627900	3.211590	44.803888	1.857410	0.030611	0.320545	0.046522	0.003420	0.002085	0.126991	0.000591	0.012302	0.006863	0.001922	0.019223
22-Jan-2024	0.533298	12.695000	19.703900	3.223560	44.974035	1.864610	0.030725	0.321739	0.046694	0.003433	0.002093	0.127437	0.000593	0.012348	0.006889	0.001930	0.019297
23-Jan-2024	0.533461	12.748300	19.787600	3.236850	45.161853	1.872530	0.030852	0.323066	0.046887	0.003447	0.002101	0.127940	0.000595	0.012399	0.006918	0.001938	0.019378
24-Jan-2024	0.533442	12.807000	19.879400	3.251520	45.368838	1.881220	0.030993	0.324531	0.047099	0.003463	0.002111	0.128500	0.000598	0.012455	0.006950	0.001947	0.019467
25-Jan-2024	0.533342	12.868700	19.975800	3.266970	45.586526	1.890360	0.031140	0.326074	0.047322	0.003479	0.002121	0.129092	0.000601	0.012515	0.006984	0.001956	0.019561
26-Jan-2024	0.533416	12.933200	20.076600	3.283130	45.814130	1.899890	0.031295	0.327687	0.047556	0.003496	0.002131	0.129713	0.000604	0.012577	0.007019	0.001966	0.019660
27-Jan-2024	0.533476	13.000600	20.181800	3.300030	46.052022	1.909850	0.031456	0.329374	0.047801	0.003514	0.002142	0.130363	0.000607	0.012642	0.007056	0.001976	0.019762
28-Jan-2024	0.533430	13.070600	20.291100	3.317600	46.299165	1.920200	0.031624	0.331128	0.048055	0.003533	0.002153	0.131040	0.000611	0.012710	0.007094	0.001987	0.019869
29-Jan-2024	0.533473	13.143100	20.404300	3.335800	46.555145	1.930910	0.031797	0.332945	0.048318	0.003552	0.002165	0.131742	0.000614	0.012779	0.007133	0.001998	0.019979
30-Jan-2024	0.533518	13.218300	20.521700	3.354720	46.820832	1.942030	0.031978	0.334833	0.048592	0.003573	0.002177	0.132473	0.000618	0.012852	0.007174	0.002009	0.020094
31-Jan-2024	0.533586	13.295300	20.641900	3.374070	47.092784	1.953410	0.032163	0.336765	0.048872	0.003593	0.002189	0.133221	0.000621	0.012926	0.007216	0.002021	0.020211
1-Feb-2024	0.533524	13.374200	20.764900	3.393890	47.371416	1.965050	0.032352	0.338744	0.049159	0.003614	0.002202	0.133987	0.000625	0.013003	0.007259	0.002033	0.020331
2-Feb-2024	0.533400	13.455100	20.891100	3.414230	47.657184	1.977000	0.032546	0.340774	0.049453	0.003636	0.002215	0.134774	0.000629	0.013081	0.007303	0.002045	0.020454
3-Feb-2024	0.533304	13.537800	21.020200	3.435030	47.949340	1.989210	0.032745	0.342850	0.049754	0.003658	0.002229	0.135578	0.000633	0.013161	0.007348	0.002058	0.020580
4-Feb-2024	0.533190	13.621900	21.151400	3.456180	48.246434	2.001640	0.032947	0.344962	0.050061	0.003681	0.002242	0.136402	0.000637	0.013242	0.007394	0.002071	0.020708
5-Feb-2024	0.533129	13.712300	21.291800	3.479110	48.566588	2.014920	0.033165	0.347250	0.050393	0.003705	0.002257	0.137300	0.000641	0.013330	0.007443	0.002085	0.020845
6-Feb-2024	0.533086	13.806000	21.437900	3.502720	48.897783	2.028740	0.033391	0.349607	0.050734	0.003730	0.002272	0.138218	0.000645	0.013420	0.007494	0.002099	0.020988
7-Feb-2024	0.533059	13.901700	21.586900	3.526820	49.235990	2.042850	0.033621	0.352013	0.051083	0.003756	0.002288	0.139155	0.000650	0.013513	0.007546	0.002113	0.021133
8-Feb-2024	0.533052	13.986600	21.719300	3.548200	49.536028	2.055390	0.033825	0.354147	0.051393	0.003779	0.002302	0.139984	0.000654	0.013595	0.007592	0.002126	0.021263
9-Feb-2024	0.533043	14.071400	21.851500	3.569550	49.835693	2.067890	0.034028	0.356278	0.051702	0.003801	0.002315	0.140813	0.000658	0.013677	0.007638	0.002139	0.021392
10-Feb-2024	0.533020	14.163100	21.994200	3.592670	50.159876	2.081400	0.034249	0.358586	0.052037	0.003826	0.002330	0.141714	0.000662	0.013766	0.007688	0.002153	0.021531
11-Feb-2024	0.532973	14.255700	22.138400	3.616040	50.487336	2.095050	0.034472	0.360919	0.052375	0.003851	0.002345	0.142625	0.000666	0.013855	0.007738	0.002167	0.021672
12-Feb-2024	0.532903	14.348500	22.282900	3.639470	50.815542	2.108730	0.034695	0.363257	0.052714	0.003876	0.002360	0.143539	0.000671	0.013945	0.007789	0.002181	0.021813
13-Feb-2024	0.532874	14.439900	22.425300	3.662550	51.138811	2.122200	0.034916	0.365561	0.053048	0.003901	0.002375	0.144440	0.000675	0.014034	0.007838	0.002195	0.021952
14-Feb-2024	0.532887	14.528900	22.563900	3.685010	51.453534	2.135320	0.035130	0.367803	0.053373	0.003924	0.002390	0.145316	0.000679	0.014120	0.007887	0.002209	0.022088
15-Feb-2024	0.532929	14.618500	22.703300	3.707620	51.770374	2.148520	0.035346	0.370060	0.053701	0.003949	0.002404	0.146198	0.000683	0.014207	0.007935	0.002222	0.022224
16-Feb-2024	0.532904	14.707900	22.842500	3.730180	52.086508	2.161690	0.035561	0.372312	0.054027	0.003973	0.002419	0.147079	0.000687	0.014293	0.007984	0.002236	0.022360
17-Feb-2024	0.532885	14.803400	22.991100	3.754330	52.424421	2.175760	0.035791	0.374723	0.054377	0.003998	0.002435	0.148024	0.000692	0.014386	0.008036	0.002251	0.022505
18-Feb-2024	0.532904	14.898200	23.138600	3.778320	52.759927	2.189710	0.036020	0.377117	0.054724	0.004024	0.002450	0.148964	0.000696	0.014478	0.008087	0.002265	0.022649
19-Feb-2024	0.532904	14.995000	23.290000	3.802800	53.102445	2.204040	0.036253	0.379561	0.055079	0.004050	0.002466	0.149925	0.000701	0.014572	0.008140	0.002280	0.022797
20-Feb-2024	0.532875	15.105300	23.460400	3.830760	53.493004	2.220170	0.036520	0.382351	0.055484	0.004080	0.002484	0.151025	0.000706	0.014679	0.008200	0.002296	0.022964
21-Feb-2024	0.532846	15.219900	23.638400	3.859830	53.898870	2.237010	0.036797	0.385252	0.055905	0.004111	0.002503	0.152172	0.000711	0.014790	0.008262	0.002314	0.023138
22-Feb-2024	0.532818	15.326500	23.804000	3.886860	54.276360	2.252690	0.037055	0.387951	0.056296	0.004139	0.002520	0.153237	0.000716	0.014894	0.008320	0.002330	0.023301
23-Feb-2024	0.532790	15.477400	24.040200	3.924520	54.808241	2.275050	0.037415	0.391710	0.056841	0.004180	0.002544	0.154671	0.000724	0.015039	0.008402	0.002353	0.023530
24-Feb-2024	0.532768	15.627800	24.273900	3.962620	55.340686	2.297170	0.037778	0.395513	0.057393	0.004220	0.002569	0.156169	0.000731	0.015185	0.008484	0.002376	0.023759
25-Feb-2024	0.532757	15.789200	24.524800	4.003510	55.912087	2.320910	0.038168	0.399594	0.057985	0.004264	0.002596	0.157777	0.000738	0.015342	0.008571	0.002400	0.024004
26-Feb-2024	0.532764	15.939500	24.758400	4.041580	56.444158	2.343020	0.038531	0.403394	0.058536	0.004304	0.002620	0.159273	0.000745	0.015488	0.008653	0.002423	0.024233
27-Feb-2024	0.532771	16.099900	25.007700	4.082190	57.011909	2.366610	0.038918	0.407448	0.059124	0.004348	0.002647	0.160869	0.000753	0.015643	0.008740	0.002448	0.024477
28-Feb-2024	0.532755	16.250200	25.241300	4.120210	57.543774	2.388720	0.039281	0.411243	0.059675	0.004388	0.002671	0.162361	0.000760	0.015789	0.008822	0.002471	0.024705
29-Feb-2024	0.532733	16.415200	25.497900	4.161990	58.127829	2.413010	0.039679	0.415413	0.060280	0.004433	0.002698	0.164001	0.000767	0.015949	0.008911	0.002496	0.024956
1-Mar-2024	0.532723	16.592600	25.773600	4.206900	58.755736	2.439100	0.040107	0.419896	0.060930	0.004480	0.002727	0.165766	0.000776	0.016122	0.009008	0.002523	0.025226
2-Mar-2024	0.532726	16.778700	26.062900	4.254040	59.414551	2.466470	0.040557	0.424601	0.061613	0.004531	0.002758	0.167619	0.000784	0.016302	0.009109	0.002551	0.025509

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
3-Mar-2024	0.532735	16.966800	26.355200	4.301690	60.080459	2.494130	0.041011	0.429357	0.062303	0.004581	0.002789	0.169494	0.000793	0.016485	0.009211	0.002580	0.025795
4-Mar-2024	0.532737	17.144800	26.631800	4.346790	60.710647	2.520310	0.041441	0.433859	0.062956	0.004629	0.002818	0.171268	0.000802	0.016658	0.009308	0.002607	0.026066
5-Mar-2024	0.532731	17.332000	26.922700	4.394220	61.373402	2.547840	0.041894	0.438593	0.063643	0.004680	0.002849	0.173134	0.000810	0.016840	0.009409	0.002635	0.026350
6-Mar-2024	0.532733	17.534800	27.237800	4.445610	62.091418	2.577660	0.042383	0.443721	0.064387	0.004735	0.002882	0.175156	0.000820	0.017036	0.009519	0.002666	0.026659
7-Mar-2024	0.532748	16.921300	26.282500	4.290810	59.922042	2.487240	0.040907	0.428270	0.062146	0.004570	0.002782	0.169120	0.000791	0.016442	0.009186	0.002573	0.025725
8-Mar-2024	0.532774	17.037600	26.463400	4.320250	60.333677	2.504360	0.041187	0.431209	0.062573	0.004601	0.002801	0.170276	0.000796	0.016555	0.009249	0.002590	0.025902
9-Mar-2024	0.532791	17.148100	26.635000	4.348210	60.724734	2.520610	0.041454	0.433999	0.062977	0.004631	0.002819	0.171374	0.000802	0.016663	0.009309	0.002607	0.026070
10-Mar-2024	0.532798	17.258500	26.806700	4.376160	61.115501	2.536860	0.041720	0.436789	0.063382	0.004661	0.002837	0.172471	0.000807	0.016770	0.009369	0.002624	0.026238
11-Mar-2024	0.532803	17.371600	26.982500	4.404800	61.515852	2.553500	0.041994	0.439647	0.063797	0.004691	0.002856	0.173596	0.000812	0.016879	0.009430	0.002641	0.026410
12-Mar-2024	0.532808	17.484800	27.158400	4.433440	61.916452	2.570140	0.042267	0.442506	0.064212	0.004722	0.002874	0.174721	0.000817	0.016989	0.009492	0.002658	0.026582
13-Mar-2024	0.532821	17.598800	27.335700	4.462320	62.320037	2.586920	0.042542	0.445389	0.064630	0.004752	0.002893	0.175856	0.000823	0.017100	0.009554	0.002676	0.026756
14-Mar-2024	0.532828	17.712900	27.513000	4.491210	62.723914	2.603690	0.042818	0.448272	0.065048	0.004783	0.002912	0.176991	0.000828	0.017211	0.009616	0.002693	0.026929
15-Mar-2024	0.532835	17.829500	27.694300	4.520750	63.136710	2.620850	0.043099	0.451221	0.065476	0.004815	0.002931	0.178153	0.000834	0.017324	0.009679	0.002711	0.027106
16-Mar-2024	0.532837	17.953800	27.887300	4.552220	63.576681	2.639120	0.043399	0.454362	0.065932	0.004848	0.002951	0.179390	0.000839	0.017445	0.009747	0.002730	0.027295
17-Mar-2024	0.532839	18.078100	28.080500	4.583720	64.016775	2.657410	0.043700	0.457506	0.066388	0.004882	0.002972	0.180629	0.000845	0.017565	0.009814	0.002748	0.027484
18-Mar-2024	0.532845	18.197100	28.265500	4.613870	64.438075	2.674910	0.043987	0.460516	0.066825	0.004914	0.002991	0.181815	0.000851	0.017681	0.009879	0.002767	0.027665
19-Mar-2024	0.532849	18.320700	28.457600	4.645200	64.875722	2.693090	0.044286	0.463642	0.067278	0.004947	0.003011	0.183048	0.000857	0.017801	0.009946	0.002785	0.027853
20-Mar-2024	0.532849	18.452300	28.662000	4.678530	65.341580	2.712440	0.044604	0.466969	0.067761	0.004983	0.003033	0.184359	0.000863	0.017929	0.010017	0.002805	0.028053
21-Mar-2024	0.532849	18.591500	28.878300	4.713800	65.834404	2.732910	0.044940	0.470490	0.068272	0.005020	0.003056	0.185748	0.000869	0.018064	0.010093	0.002826	0.028265
22-Mar-2024	0.532849	18.729600	29.092900	4.748800	66.323370	2.753210	0.045274	0.473983	0.068779	0.005057	0.003079	0.187125	0.000876	0.018198	0.010168	0.002847	0.028475
23-Mar-2024	0.532851	18.865500	29.304000	4.783230	66.804495	2.773190	0.045602	0.477420	0.069278	0.005094	0.003101	0.188481	0.000882	0.018330	0.010242	0.002868	0.028682
24-Mar-2024	0.532853	19.014100	29.534800	4.820890	67.330633	2.795040	0.045961	0.481179	0.069823	0.005134	0.003125	0.189963	0.000889	0.018474	0.010322	0.002891	0.028907
25-Mar-2024	0.532853	19.179100	29.791200	4.862710	67.914852	2.819300	0.046360	0.485353	0.070429	0.005179	0.003152	0.191610	0.000897	0.018635	0.010412	0.002916	0.029158
26-Mar-2024	0.532853	19.361400	30.074400	4.908930	68.560390	2.846100	0.046800	0.489965	0.071098	0.005228	0.003182	0.193430	0.000905	0.018812	0.010511	0.002944	0.029436
27-Mar-2024	0.532852	19.554300	30.374200	4.957840	69.243472	2.874470	0.047267	0.494847	0.071806	0.005280	0.003214	0.195356	0.000914	0.018999	0.010616	0.002973	0.029729
28-Mar-2024	0.532853	19.759900	30.693500	5.009950	69.971444	2.904690	0.047763	0.500048	0.072561	0.005336	0.003248	0.197408	0.000924	0.019199	0.010727	0.003004	0.030041
29-Mar-2024	0.532853	19.975900	31.029000	5.064700	70.736257	2.936440	0.048285	0.505513	0.073354	0.005394	0.003283	0.199565	0.000934	0.019409	0.010844	0.003037	0.030370
30-Mar-2024	0.532853	20.202900	31.381800	5.122250	71.540067	2.969820	0.048834	0.511258	0.074188	0.005455	0.003321	0.201832	0.000945	0.019629	0.010968	0.003071	0.030715
31-Mar-2024	0.532853	20.441700	31.752600	5.182770	72.385572	3.004920	0.049411	0.517299	0.075064	0.005520	0.003360	0.204216	0.000956	0.019861	0.011097	0.003108	0.031078
1-Apr-2024	0.532853	20.694000	32.144600	5.246750	73.279035	3.042010	0.050021	0.523684	0.075991	0.005588	0.003401	0.206736	0.000968	0.020106	0.011234	0.003146	0.031462
2-Apr-2024	0.532853	20.944200	32.533300	5.310180	74.164989	3.078800	0.050626	0.530015	0.076909	0.005655	0.003442	0.209235	0.000979	0.020349	0.011370	0.003184	0.031842
3-Apr-2024	0.532853	21.167100	32.879500	5.366680	74.954237	3.111560	0.051164	0.535654	0.077728	0.005716	0.003479	0.211461	0.000990	0.020566	0.011491	0.003218	0.032181
4-Apr-2024	0.532853	21.352600	33.167600	5.413700	75.611059	3.138830	0.051613	0.540348	0.078409	0.005766	0.003510	0.213314	0.000998	0.020746	0.011592	0.003246	0.032463
5-Apr-2024	0.532853	21.503700	33.402300	5.452010	76.146116	3.161040	0.051978	0.544171	0.078964	0.005806	0.003534	0.214823	0.001005	0.020893	0.011674	0.003269	0.032693
6-Apr-2024	0.532853	21.626400	33.593000	5.483130	76.580650	3.179080	0.052275	0.547277	0.079414	0.005840	0.003555	0.216049	0.001011	0.021012	0.011741	0.003288	0.032879
7-Apr-2024	0.532853	21.726800	33.748900	5.508580	76.936152	3.193840	0.052517	0.549817	0.079783	0.005867	0.003571	0.217051	0.001016	0.021110	0.011795	0.003303	0.033032
8-Apr-2024	0.532853	21.809500	33.877400	5.529540	77.228967	3.206000	0.052717	0.551910	0.080086	0.005889	0.003585	0.217877	0.001020	0.021190	0.011840	0.003316	0.033157
9-Apr-2024	0.532853	21.877900	33.983700	5.546900	77.471251	3.216060	0.052883	0.553642	0.080338	0.005907	0.003596	0.218561	0.001023	0.021257	0.011877	0.003326	0.033262
10-Apr-2024	0.532853	21.934800	34.072100	5.561330	77.672753	3.224430	0.053020	0.555082	0.080547	0.005923	0.003605	0.219130	0.001026	0.021312	0.011908	0.003335	0.033348
11-Apr-2024	0.532853	21.982400	34.145900	5.573370	77.841190	3.231410	0.053135	0.556285	0.080721	0.005936	0.003613	0.219604	0.001028	0.021358	0.011934	0.003342	0.033420
12-Apr-2024	0.532853	22.022200	34.207900	5.583480	77.982204	3.237270	0.053231	0.557294	0.080868	0.005946	0.003620	0.220003	0.001030	0.021397	0.011955	0.003348	0.033481
13-Apr-2024	0.532853	22.055900	34.260200	5.592030	78.101562	3.242230	0.053313	0.558147	0.080991	0.005955	0.003625	0.220339	0.001031	0.021430	0.011974	0.003353	0.033532
14-Apr-2024	0.532852	22.084600	34.304800	5.599300	78.203164	3.246450	0.053382	0.558873	0.081097	0.005963	0.003630	0.220626	0.001033	0.021457	0.011989	0.003358	0.033576
15-Apr-2024	0.532852	22.109300	34.343100	5.605550	78.290577	3.250070	0.053442	0.559496	0.081187	0.005970	0.003634	0.220872	0.001034	0.021481	0.012003	0.003361	0.033613
16-Apr-2024	0.532852	22.130500	34.376000	5.610930	78.365668	3.253190	0.053493	0.560033	0.081265	0.005976	0.003637	0.221084	0.001035	0.021502	0.012014	0.003365	0.033645
17-Apr-2024	0.532852	22.148900	34.404600	5.615590	78.430803	3.255890	0.053538	0.560498	0.081333	0.005981	0.003640	0.221268	0.001036	0.021520	0.012024	0.003367	0.033673
18-Apr-2024	0.532852	22.164900	34.429500	5.619660	78.487515	3.258250	0.053576	0.560905	0.081392	0.005985	0.003643	0.221428	0.001036	0.021535	0.012033	0.003370	0.033698
19-Apr-2024	0.532852	22.179100	34.451500	5.623260	78.537797	3.260330	0.053611	0.561264	0.081444	0.005989	0.003645	0.221570	0.001037	0.021549	0.012041	0.003372	0.033719
20-Apr-2024	0.532851	22.191700	34.471100	5.626460	78.582437	3.262190	0.053641	0.561583	0.081490	0.005992	0.003647	0.221696	0.001038	0.021562	0.012047	0.003374	0.033739
21-Apr-2024	0.532851	22.203000	34.488700	5.629330	78.622472	3.263850	0.053668	0.561869	0.081532	0.005995	0.003649	0.221809	0.001038	0.021573	0.012054	0.003376	0.033756
22-Apr-2024	0.532851	22.213300	34.504600	5.631920	78.658857	3.265350	0.053693	0.562128	0.081569	0.005998	0.003651	0.221911	0.001039	0.021582	0.012059	0.003377	0.033771
23-Apr-2024	0.532851	22.222600	34.519000	5.634270	78.691756	3.266720	0.053716	0.562363	0.081603	0.006000	0.003653	0.222004	0.001039	0.021591	0.012064	0.003379	0.033785
24-Apr-2024	0.532851	22.231100	34.532300	5.636440	78.721917	3.267970	0.053736	0.562579	0.081635	0.006003	0.003654	0.222089	0.001039	0.021600	0.012069	0.003380	0.033798

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
25-Apr-2024	0.532851	22.239000	34.544500	5.638430	78.749838	3.269130	0.053755	0.562778	0.081664	0.006005	0.003655	0.222168	0.001040	0.021607	0.012073	0.003381	0.033810
26-Apr-2024	0.532851	22.246200	34.555800	5.640280	78.775434	3.270200	0.053773	0.562963	0.081690	0.006007	0.003656	0.222241	0.001040	0.021614	0.012077	0.003382	0.033821
27-Apr-2024	0.532851	22.253000	34.566300	5.642000	78.799497	3.271200	0.053789	0.563134	0.081715	0.006009	0.003658	0.222309	0.001040	0.021621	0.012081	0.003383	0.033832
28-Apr-2024	0.532850	22.259300	34.576100	5.643600	78.821817	3.272130	0.053805	0.563294	0.081738	0.006010	0.003659	0.222372	0.001041	0.021627	0.012084	0.003384	0.033841
29-Apr-2024	0.532849	22.265300	34.585400	5.645110	78.843017	3.273000	0.053819	0.563445	0.081760	0.006012	0.003660	0.222431	0.001041	0.021633	0.012087	0.003385	0.033850
30-Apr-2024	0.532837	22.271000	34.594200	5.646550	78.863180	3.273840	0.053833	0.563589	0.081781	0.006014	0.003661	0.222488	0.001041	0.021639	0.012090	0.003386	0.033859
1-May-2024	0.532768	22.274200	34.599200	5.647370	78.874547	3.274310	0.053840	0.563670	0.081793	0.006014	0.003661	0.222520	0.001041	0.021642	0.012092	0.003386	0.033864
2-May-2024	0.532510	22.249900	34.561500	5.641210	78.788503	3.270740	0.053782	0.563056	0.081704	0.006008	0.003657	0.222278	0.001040	0.021618	0.012079	0.003383	0.033827
3-May-2024	0.532247	22.139900	34.390600	5.613330	78.399023	3.254570	0.053516	0.560273	0.081300	0.005978	0.003639	0.221180	0.001035	0.021511	0.012019	0.003366	0.033660
4-May-2024	0.531980	21.916100	34.042900	5.556590	77.606539	3.221660	0.052975	0.554610	0.080478	0.005918	0.003602	0.218945	0.001025	0.021294	0.011898	0.003332	0.033320
5-May-2024	0.531673	21.585600	33.529500	5.472800	76.436234	3.173080	0.052176	0.546246	0.079265	0.005829	0.003548	0.215644	0.001009	0.020973	0.011718	0.003282	0.032817
6-May-2024	0.531383	21.342600	33.152100	5.411230	75.575917	3.137360	0.051589	0.540101	0.078373	0.005763	0.003508	0.213219	0.000998	0.020737	0.011586	0.003245	0.032448
7-May-2024	0.531883	20.953900	32.548300	5.312670	74.199463	3.080220	0.050649	0.530263	0.076945	0.005658	0.003444	0.209335	0.000980	0.020359	0.011375	0.003186	0.031857
8-May-2024	0.533417	20.558400	31.934000	5.212380	72.798906	3.022080	0.049693	0.520254	0.075493	0.005551	0.003379	0.205383	0.000961	0.019975	0.011161	0.003126	0.031255
9-May-2024	0.536192	20.139000	31.282600	5.106030	71.313715	2.960440	0.048680	0.509639	0.073953	0.005438	0.003310	0.201191	0.000942	0.019567	0.010933	0.003062	0.030618
10-May-2024	0.539086	19.737700	30.659200	5.004250	69.892538	2.901440	0.047709	0.499480	0.072478	0.005330	0.003244	0.197179	0.000923	0.019177	0.010715	0.003001	0.030008
11-May-2024	0.543078	19.332700	30.030300	4.901560	68.458376	2.841920	0.046730	0.489231	0.070991	0.005220	0.003178	0.193131	0.000904	0.018784	0.010495	0.002939	0.029392
12-May-2024	0.548042	18.948300	29.433100	4.804070	67.097065	2.785410	0.045801	0.479500	0.069579	0.005116	0.003114	0.189288	0.000886	0.018410	0.010287	0.002881	0.028808
13-May-2024	0.555918	18.158200	28.206100	4.603660	64.298897	2.669300	0.043890	0.459497	0.066676	0.004903	0.002984	0.181384	0.000849	0.017642	0.009858	0.002761	0.027606
14-May-2024	0.566092	17.679200	27.462300	4.482200	62.602662	2.598910	0.042732	0.447374	0.064917	0.004774	0.002906	0.176595	0.000827	0.017177	0.009598	0.002688	0.026878
15-May-2024	0.577929	17.293900	26.863800	4.384470	61.238116	2.542270	0.041801	0.437619	0.063502	0.004669	0.002842	0.172742	0.000809	0.016802	0.009389	0.002629	0.026292
16-May-2024	0.589360	16.895100	26.244500	4.283330	59.825818	2.483660	0.040836	0.427524	0.062037	0.004562	0.002777	0.168753	0.000790	0.016415	0.009172	0.002569	0.025686
17-May-2024	0.621093	16.558700	25.722100	4.198010	58.634479	2.434220	0.040023	0.419008	0.060801	0.004471	0.002721	0.165389	0.000774	0.016088	0.008990	0.002517	0.025175
18-May-2024	0.619880	16.231900	25.214500	4.115110	57.477077	2.386180	0.039233	0.410734	0.059600	0.004383	0.002668	0.162120	0.000759	0.015770	0.008812	0.002468	0.024678
19-May-2024	0.623106	15.397100	23.917700	3.903450	54.520966	2.263460	0.037215	0.389607	0.056535	0.004157	0.002530	0.153779	0.000720	0.014959	0.008359	0.002341	0.023409
20-May-2024	0.629816	14.613000	22.699800	3.704660	51.744451	2.148210	0.035320	0.369766	0.053656	0.003945	0.002401	0.145947	0.000683	0.014197	0.007933	0.002222	0.022217
21-May-2024	0.641185	13.866800	21.542500	3.514900	49.099758	2.038650	0.033510	0.350808	0.050909	0.003743	0.002278	0.138418	0.000648	0.013471	0.007528	0.002108	0.021082
22-May-2024	0.656849	13.634500	21.180800	3.456200	48.277978	2.004330	0.032946	0.344907	0.050063	0.003680	0.002240	0.136112	0.000638	0.013246	0.007402	0.002073	0.020729
23-May-2024	0.663976	13.359800	20.753800	3.386700	47.305851	1.963860	0.032281	0.337945	0.049060	0.003606	0.002195	0.133379	0.000625	0.012980	0.007253	0.002031	0.020311
24-May-2024	0.676263	13.083500	20.324400	3.316720	46.327752	1.923200	0.031613	0.330949	0.048048	0.003531	0.002150	0.130625	0.000612	0.012712	0.007103	0.001989	0.019891
25-May-2024	0.689859	12.850500	19.962200	3.257700	45.502907	1.888900	0.031049	0.325047	0.047194	0.003468	0.002112	0.128302	0.000601	0.012485	0.006976	0.001954	0.019536
26-May-2024	0.701398	12.655100	19.657800	3.208410	44.812017	1.859970	0.030574	0.320074	0.046486	0.003415	0.002080	0.126369	0.000592	0.012297	0.006870	0.001924	0.019238
27-May-2024	0.712561	12.458900	19.353400	3.158580	44.116906	1.831220	0.030102	0.315124	0.045762	0.003363	0.002048	0.124403	0.000583	0.012106	0.006764	0.001894	0.018940
28-May-2024	0.725659	12.326200	19.147000	3.125000	43.647271	1.811650	0.029780	0.311758	0.045277	0.003327	0.002026	0.123083	0.000576	0.011977	0.006692	0.001874	0.018738
29-May-2024	0.737454	12.186800	18.930300	3.089750	43.154030	1.791110	0.029443	0.308225	0.044770	0.003289	0.002003	0.121700	0.000570	0.011842	0.006616	0.001853	0.018526
30-May-2024	0.749177	13.354200	20.745700	3.385090	47.285238	1.963200	0.032270	0.337829	0.049032	0.003605	0.002194	0.133310	0.000624	0.012973	0.007250	0.002030	0.020303
31-May-2024	0.765594	12.158800	18.888000	3.082250	43.053229	1.787320	0.029380	0.307574	0.044649	0.003282	0.001998	0.121392	0.000569	0.011813	0.006601	0.001848	0.018485
1-Jun-2024	0.787079	11.878400	18.452400	3.011220	42.060569	1.746090	0.028703	0.300481	0.043621	0.003206	0.001952	0.118597	0.000555	0.011541	0.006449	0.001806	0.018059
2-Jun-2024	0.816654	11.632000	18.065200	2.950020	41.193286	1.708870	0.028095	0.294113	0.042763	0.003139	0.001914	0.116234	0.000544	0.011307	0.006314	0.001768	0.017681
3-Jun-2024	0.902795	11.283700	17.521300	2.862510	39.963215	1.657260	0.027259	0.285384	0.041603	0.003044	0.001862	0.112810	0.000527	0.010972	0.006125	0.001716	0.017156
4-Jun-2024	1.072480	10.937400	16.963300	2.780500	38.760787	1.602640	0.026417	0.276629	0.040629	0.002944	0.001817	0.109772	0.000510	0.010661	0.005934	0.001664	0.016642
5-Jun-2024	1.194358	10.677300	16.544600	2.718650	37.856619	1.561720	0.025784	0.270044	0.039817	0.002869	0.001781	0.107474	0.000497	0.010427	0.005790	0.001625	0.016254
6-Jun-2024	1.274315	10.406200	16.109400	2.654630	36.916048	1.519260	0.025123	0.263152	0.039139	0.002791	0.001749	0.105268	0.000484	0.010188	0.005641	0.001585	0.015845
7-Jun-2024	1.302203	10.191000	15.745000	2.607880	36.186177	1.481760	0.024574	0.257423	0.038635	0.002724	0.001722	0.103539	0.000472	0.010011	0.005520	0.001552	0.015521
8-Jun-2024	1.359287	9.962010	15.378500	2.552890	35.387940	1.446120	0.024017	0.251613	0.038148	0.002659	0.001699	0.101495	0.000461	0.009803	0.005394	0.001517	0.015175
9-Jun-2024	1.483574	9.704110	14.931200	2.500630	34.528757	1.399100	0.023347	0.244539	0.038382	0.002575	0.001680	0.100055	0.000446	0.009612	0.005247	0.001479	0.014786
10-Jun-2024	1.680293	9.476940	14.556000	2.450740	33.756067	1.361570	0.022791	0.238741	0.037797	0.002507	0.001658	0.098448	0.000435	0.009433	0.005121	0.001445	0.014447
11-Jun-2024	1.899611	9.318510	14.286900	2.415620	33.215843	1.334420	0.022416	0.234770	0.037420	0.002458	0.001641	0.097177	0.000426	0.009297	0.005031	0.001421	0.014214
12-Jun-2024	2.150249	9.173310	14.043200	2.383780	32.722161	1.310590	0.022096	0.231357	0.037270	0.002415	0.001625	0.096005	0.000418	0.009180	0.004950	0.001400	0.014004
13-Jun-2024	2.388067	9.082860	13.886700	2.365170	32.419671	1.294870	0.021894	0.229143	0.036984	0.002387	0.001616	0.095479	0.000413	0.009114	0.004899	0.001387	0.013873
14-Jun-2024	2.655935	8.889740	13.555000	2.325880	31.775655	1.261310	0.021440	0.224197	0.036641	0.002328	0.001607	0.094666	0.000403	0.008979	0.004790	0.001359	0.013589
15-Jun-2024	2.975076	8.748340	13.311100	2.295240	31.296403	1.236930	0.021125	0.220823	0.036627	0.002285	0.001594	0.093673	0.000395	0.008863	0.004710	0.001338	0.013384
16-Jun-2024	3.229492	8.603200	13.056700	2.266080	30.813908	1.211060	0.020795	0.217256	0.036698	0.002240	0.001581	0.092746	0.000386	0.008760	0.004628	0.001317	0.013172

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
17-Jun-2024	3.429961	8.423030	12.748300	2.227850	30.206592	1.179890	0.020368	0.212667	0.036710	0.002186	0.001570	0.091893	0.000377	0.008622	0.004527	0.001290	0.012905
18-Jun-2024	3.602333	8.252660	12.450900	2.193270	29.638778	1.149680	0.019977	0.208540	0.036666	0.002133	0.001559	0.093203	0.000367	0.008500	0.004430	0.001265	0.012655
19-Jun-2024	3.775381	8.058160	12.094700	2.157260	29.004822	1.113240	0.019619	0.203654	0.036614	0.002075	0.001547	0.093434	0.000355	0.008382	0.004318	0.001237	0.012367
20-Jun-2024	3.903107	7.892810	11.815500	2.123300	28.452096	1.085540	0.019243	0.199884	0.036616	0.002028	0.001535	0.093978	0.000347	0.008265	0.004225	0.001212	0.012123
21-Jun-2024	4.002998	7.764850	11.602500	2.092390	28.005292	1.064340	0.019036	0.196775	0.036609	0.001989	0.001525	0.094350	0.000340	0.008156	0.004155	0.001193	0.011932
22-Jun-2024	4.093654	7.628010	11.366900	2.063300	27.543810	1.040910	0.018808	0.193519	0.036638	0.001950	0.001513	0.094111	0.000332	0.008049	0.004078	0.001173	0.011728
23-Jun-2024	4.226775	7.521670	11.180600	2.041580	27.188836	1.022430	0.018509	0.191171	0.036716	0.001919	0.001503	0.094368	0.000326	0.007967	0.004018	0.001157	0.011572
24-Jun-2024	4.428825	7.385340	10.942100	2.013650	26.733405	0.998746	0.018313	0.188125	0.036658	0.001880	0.001493	0.094356	0.000318	0.007870	0.003942	0.001137	0.011372
25-Jun-2024	4.695938	7.262050	10.724700	1.988910	26.323670	0.977182	0.018180	0.185464	0.036485	0.001843	0.001487	0.093692	0.000311	0.007786	0.003872	0.001119	0.011194
26-Jun-2024	4.968534	7.096350	10.431900	1.955280	25.771429	0.948422	0.018031	0.181856	0.036292	0.001797	0.001480	0.093248	0.000302	0.007681	0.003779	0.001095	0.010949
27-Jun-2024	5.193639	6.947620	10.171600	1.929010	25.291870	0.922913	0.017864	0.179166	0.036191	0.001758	0.001474	0.094019	0.000294	0.007600	0.003695	0.001073	0.010730
28-Jun-2024	5.392790	6.846390	9.972090	1.908460	24.954474	0.904478	0.017668	0.177086	0.036090	0.001728	0.001467	0.094843	0.000287	0.007528	0.003637	0.001059	0.010586
29-Jun-2024	5.623539	6.732490	9.795450	1.880710	24.555791	0.886019	0.017425	0.174124	0.035992	0.001691	0.001460	0.094767	0.000281	0.007431	0.003574	0.001042	0.010420
30-Jun-2024	5.893262	6.604210	9.575190	1.853660	24.124084	0.864268	0.017231	0.171252	0.035919	0.001653	0.001453	0.094522	0.000274	0.007335	0.003502	0.001023	0.010233
1-Jul-2024	7.423395	6.174550	8.849610	1.759340	22.662813	0.792010	0.016067	0.169721	0.034700	0.001530	0.001396	0.095625	0.000251	0.006976	0.003262	0.000959	0.009595
2-Jul-2024	8.320600	6.207100	8.869740	1.772830	22.799643	0.795335	0.015975	0.169776	0.034519	0.001535	0.001413	0.099537	0.000251	0.007065	0.003279	0.000968	0.009678
3-Jul-2024	9.977503	5.806180	8.185880	1.691100	21.461981	0.725085	0.015958	0.170070	0.034122	0.001490	0.001391	0.096961	0.000229	0.006762	0.003051	0.000911	0.009112
4-Jul-2024	10.325168	6.183390	8.848340	1.751120	22.651037	0.796282	0.015661	0.163555	0.033618	0.001549	0.001396	0.091796	0.000252	0.007072	0.003282	0.000968	0.009678
5-Jul-2024	10.967991	5.965060	8.469280	1.713670	21.951648	0.758517	0.015195	0.158441	0.033019	0.001487	0.001382	0.088831	0.000239	0.006877	0.003151	0.000934	0.009342
6-Jul-2024	11.530122	6.122860	8.754760	1.731140	22.417616	0.788805	0.015513	0.161555	0.033237	0.001543	0.001382	0.088259	0.000249	0.007021	0.003254	0.000957	0.009573
7-Jul-2024	11.421150	6.050610	8.627640	1.720340	22.192733	0.776404	0.015382	0.160279	0.032962	0.001526	0.001377	0.084569	0.000245	0.006952	0.003209	0.000946	0.009459
8-Jul-2024	11.485808	6.017510	8.570990	1.714940	22.087845	0.770503	0.015300	0.159430	0.032794	0.001517	0.001375	0.087152	0.000243	0.006918	0.003188	0.000940	0.009405
9-Jul-2024	12.084205	6.074440	8.675530	1.723960	22.267144	0.780943	0.015455	0.164146	0.032946	0.001535	0.001381	0.090348	0.000247	0.006957	0.003222	0.000949	0.009489
10-Jul-2024	12.243472	6.121030	8.754460	1.732780	22.419800	0.790020	0.015539	0.162673	0.032841	0.001560	0.001379	0.086514	0.000249	0.006994	0.003250	0.000955	0.009555
11-Jul-2024	12.050186	6.109620	8.733290	1.731190	22.384762	0.787932	0.015520	0.162258	0.032811	0.001557	0.001379	0.085617	0.000249	0.006985	0.003243	0.000954	0.009537
12-Jul-2024	12.402634	6.264910	9.019820	1.755250	22.871600	0.816084	0.015776	0.164338	0.032981	0.001601	0.001381	0.087787	0.000258	0.007094	0.003336	0.000977	0.009773
13-Jul-2024	12.930275	6.155420	8.819120	1.739800	22.534580	0.796063	0.015653	0.164182	0.032848	0.001576	0.001382	0.087679	0.000251	0.007013	0.003270	0.000961	0.009606
14-Jul-2024	13.317062	6.399290	9.268290	1.779110	23.305402	0.840586	0.016009	0.166722	0.032991	0.001644	0.001383	0.084559	0.000266	0.007173	0.003414	0.000997	0.009975
15-Jul-2024	13.848522	6.471080	9.395720	1.788960	23.525224	0.853797	0.016154	0.168178	0.033147	0.001668	0.001385	0.086161	0.000271	0.007237	0.003459	0.001008	0.010081
16-Jul-2024	14.374884	6.376560	9.222580	1.775480	23.233697	0.836512	0.015987	0.166540	0.032957	0.001642	0.001383	0.085455	0.000265	0.007163	0.003401	0.000994	0.009936
17-Jul-2024	15.023797	6.559560	9.550550	1.806550	23.818594	0.870871	0.016395	0.170782	0.033152	0.001710	0.001388	0.084607	0.000276	0.007297	0.003510	0.001021	0.010207
18-Jul-2024	14.943909	6.399410	9.260390	1.780970	23.313361	0.841283	0.016103	0.167844	0.032977	0.001657	0.001385	0.083997	0.000266	0.007177	0.003414	0.000997	0.009966
19-Jul-2024	15.690047	6.739920	9.887720	1.835090	24.386481	0.903171	0.016656	0.173342	0.033274	0.001757	0.001391	0.083825	0.000287	0.007412	0.003617	0.001048	0.010483
20-Jul-2024	16.369362	6.776790	9.956870	1.840820	24.502141	0.909620	0.016700	0.173746	0.033281	0.001767	0.001391	0.084010	0.000290	0.007435	0.003639	0.001054	0.010539
21-Jul-2024	16.475574	6.702340	9.823060	1.830590	24.274113	0.895927	0.016555	0.172301	0.033107	0.001743	0.001390	0.083576	0.000285	0.007370	0.003592	0.001043	0.010426
22-Jul-2024	16.798455	6.656900	9.733550	1.821990	24.125234	0.887823	0.016506	0.171781	0.033119	0.001735	0.001389	0.083536	0.000282	0.007354	0.003567	0.001035	0.010352
23-Jul-2024	17.335317	6.918240	10.217500	1.864230	24.951744	0.935344	0.016940	0.176146	0.033357	0.001810	0.001394	0.083962	0.000298	0.007527	0.003722	0.001075	0.010751
24-Jul-2024	17.329455	6.912130	10.206100	1.863400	24.933070	0.934198	0.016929	0.176011	0.033350	0.001808	0.001394	0.084452	0.000298	0.007524	0.003719	0.001074	0.010741
25-Jul-2024	17.570145	6.849160	10.091300	1.854290	24.738319	0.922646	0.016812	0.174821	0.033204	0.001790	0.001393	0.084369	0.000294	0.007471	0.003680	0.001064	0.010644
26-Jul-2024	16.906029	6.854590	10.101400	1.855700	24.757684	0.923508	0.016815	0.174825	0.033163	0.001792	0.001393	0.084537	0.000295	0.007472	0.003682	0.001065	0.010650
27-Jul-2024	16.328550	6.872860	10.135600	1.859260	24.817964	0.926739	0.016840	0.175057	0.033136	0.001798	0.001393	0.085097	0.000296	0.007480	0.003692	0.001068	0.010676
28-Jul-2024	15.870624	6.921230	10.224600	1.867430	24.972388	0.935494	0.016921	0.175851	0.033149	0.001813	0.001394	0.085509	0.000299	0.007510	0.003721	0.001075	0.010748
29-Jul-2024	15.555182	6.963720	10.302200	1.874650	25.108218	0.943327	0.017002	0.176684	0.033167	0.001828	0.001395	0.085599	0.000301	0.007538	0.003746	0.001081	0.010811
30-Jul-2024	15.637480	7.098290	10.548300	1.895960	25.531993	0.967866	0.017240	0.179070	0.033309	0.001869	0.001398	0.086038	0.000310	0.007634	0.003827	0.001101	0.011014
31-Jul-2024	15.592667	7.145930	10.636700	1.903960	25.683894	0.976609	0.017323	0.179909	0.033333	0.001884	0.001399	0.087379	0.000313	0.007664	0.003855	0.001109	0.011086
1-Aug-2024	15.063888	7.208080	10.751100	1.914090	25.880798	0.987896	0.017427	0.180946	0.033366	0.001904	0.001400	0.085937	0.000316	0.007705	0.003891	0.001118	0.011179
2-Aug-2024	14.931580	7.192530	10.724100	1.913040	25.837646	0.984386	0.017361	0.180233	0.033265	0.001899	0.001400	0.085439	0.000315	0.007684	0.003880	0.001115	0.011154
3-Aug-2024	15.007468	7.210940	10.758700	1.916890	25.899470	0.987075	0.017358	0.180148	0.033218	0.001905	0.001400	0.086172	0.000317	0.007691	0.003890	0.001118	0.011180
4-Aug-2024	15.081386	7.443270	11.184400	1.953400	26.629946	1.028910	0.017741	0.183923	0.033481	0.001975	0.001405	0.085630	0.000331	0.007857	0.004030	0.001153	0.011531
5-Aug-2024	15.487693	7.320210	10.960900	1.935200	26.247718	1.006100	0.017500	0.181493	0.033285	0.001937	0.001402	0.085886	0.000323	0.007760	0.003954	0.001135	0.011345
6-Aug-2024	14.759129	7.273660	10.877800	1.929640	26.108587	0.996705	0.017367	0.180097	0.033105	0.001922	0.001401	0.085937	0.000321	0.007713	0.003924	0.001127	0.011271
7-Aug-2024	14.522616	7.352050	11.022700	1.942960	26.359178	1.010310	0.017470	0.181074	0.033135	0.001946	0.001403	0.086737	0.000326	0.007763	0.003970	0.001139	0.011389
8-Aug-2024	14.488349	7.405770	11.121300	1.951580	26.528814	1.019880	0.017551	0.181857	0.033166	0.001962	0.001404	0.087387	0.000329	0.007799	0.004002	0.001147	0.011469

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
9-Aug-2024	14.316566	7.552860	11.391800	1.975860	26.996083	1.045810	0.017766	0.183949	0.033289	0.002007	0.001407	0.087672	0.000338	0.007897	0.004089	0.001169	0.011691
10-Aug-2024	13.556541	7.505150	11.304900	1.969880	26.852325	1.036600	0.017654	0.182812	0.033137	0.001994	0.001406	0.086917	0.000335	0.007855	0.004058	0.001162	0.011617
11-Aug-2024	13.097933	7.464280	11.229700	1.964490	26.728077	1.028780	0.017566	0.181924	0.033020	0.001984	0.001406	0.086771	0.000333	0.007820	0.004033	0.001155	0.011552
12-Aug-2024	13.011462	7.543280	11.375900	1.977740	26.979903	1.042560	0.017670	0.182918	0.033067	0.002007	0.001407	0.086476	0.000337	0.007870	0.004079	0.001167	0.011672
13-Aug-2024	13.113538	7.478600	11.257900	1.967860	26.777712	1.030640	0.017548	0.181695	0.032951	0.001987	0.001406	0.087106	0.000334	0.007821	0.004040	0.001157	0.011572
14-Aug-2024	13.273922	7.733510	11.727000	2.009420	27.585366	1.075770	0.017925	0.185341	0.033181	0.002064	0.001411	0.086900	0.000349	0.007993	0.004191	0.001196	0.011958
15-Aug-2024	13.788137	7.734680	11.735100	2.013290	27.604224	1.074000	0.017821	0.184178	0.033015	0.002063	0.001411	0.087108	0.000350	0.007969	0.004187	0.001196	0.011961
16-Aug-2024	13.928080	8.102040	12.396800	2.066320	28.739900	1.142850	0.018587	0.191955	0.033690	0.002181	0.001419	0.087646	0.000372	0.008270	0.004415	0.001251	0.012513
17-Aug-2024	13.411766	7.828900	11.901100	2.026960	27.895785	1.091720	0.018026	0.186277	0.033160	0.002098	0.001413	0.087111	0.000355	0.008049	0.004246	0.001210	0.012098
18-Aug-2024	12.960239	7.721210	11.705700	2.011200	27.561983	1.071590	0.017807	0.184055	0.032931	0.002064	0.001411	0.086469	0.000349	0.007963	0.004180	0.001193	0.011933
19-Aug-2024	13.037736	7.745490	11.752700	2.016350	27.643818	1.075080	0.017795	0.183861	0.032852	0.002070	0.001412	0.087476	0.000350	0.007969	0.004192	0.001197	0.011967
20-Aug-2024	12.525270	7.688040	11.648500	2.007820	27.465239	1.064380	0.017679	0.182679	0.032725	0.002052	0.001410	0.088304	0.000347	0.007923	0.004157	0.001188	0.011879
21-Aug-2024	12.356664	7.700470	11.671400	2.010330	27.506613	1.066320	0.017686	0.182730	0.032717	0.002056	0.001411	0.088119	0.000348	0.007929	0.004164	0.001190	0.011897
22-Aug-2024	12.337236	7.919730	12.077300	2.046550	28.203259	1.104840	0.017986	0.185621	0.032878	0.002120	0.001415	0.087369	0.000361	0.008071	0.004293	0.001223	0.012231
23-Aug-2024	12.410342	7.888290	12.021900	2.042950	28.109928	1.098420	0.017891	0.184624	0.032762	0.002110	0.001414	0.086980	0.000359	0.008038	0.004272	0.001218	0.012183
24-Aug-2024	12.313572	7.860500	11.973600	2.040300	28.029624	1.092500	0.017797	0.183625	0.032641	0.002101	0.001414	0.086958	0.000358	0.008008	0.004254	0.001214	0.012141
25-Aug-2024	12.118287	8.138820	12.479500	2.082070	28.896598	1.143620	0.018313	0.188801	0.033054	0.002187	0.001420	0.087370	0.000375	0.008220	0.004423	0.001256	0.012560
26-Aug-2024	12.285650	7.978390	12.188200	2.058940	28.400755	1.113520	0.017981	0.185425	0.032734	0.002138	0.001416	0.087571	0.000365	0.008091	0.004324	0.001232	0.012315
27-Aug-2024	12.259892	8.105180	12.416700	2.078100	28.796250	1.136670	0.018219	0.187793	0.032912	0.002179	0.001419	0.087871	0.000373	0.008190	0.004402	0.001250	0.012503
28-Aug-2024	12.677978	7.967390	12.169000	2.059830	28.376953	1.110080	0.017890	0.184398	0.032590	0.002137	0.001416	0.088097	0.000364	0.008068	0.004315	0.001229	0.012294
29-Aug-2024	13.164875	8.017290	12.264200	2.069520	28.541456	1.117960	0.017906	0.184463	0.032569	0.002150	0.001417	0.088491	0.000368	0.008089	0.004342	0.001237	0.012371
30-Aug-2024	12.567250	8.199360	12.582300	2.094150	29.097512	1.151330	0.018291	0.188279	0.032970	0.002215	0.001422	0.088085	0.000378	0.008261	0.004458	0.001264	0.012636
31-Aug-2024	11.428095	8.085310	12.379800	2.079160	28.751000	1.129930	0.018038	0.185750	0.032642	0.002179	0.001419	0.088705	0.000371	0.008154	0.004385	0.001246	0.012463
1-Sep-2024	10.742308	8.124660	12.452400	2.086250	28.878454	1.136530	0.018078	0.186115	0.032639	0.002191	0.001420	0.089002	0.000374	0.008177	0.004408	0.001252	0.012521
2-Sep-2024	10.651055	8.143480	12.487300	2.089040	28.936936	1.140040	0.018113	0.186469	0.032661	0.002196	0.001421	0.089877	0.000375	0.008191	0.004419	0.001255	0.012550
3-Sep-2024	11.099084	8.448200	13.049400	2.135130	29.887621	1.196010	0.018634	0.191651	0.033012	0.002290	0.001425	0.089008	0.000394	0.008408	0.004604	0.001301	0.013011
4-Sep-2024	10.430839	8.318700	12.811500	2.115470	29.483299	1.172310	0.018406	0.189368	0.032825	0.002252	0.001422	0.088382	0.000386	0.008314	0.004526	0.001281	0.012814
5-Sep-2024	10.232588	8.339270	12.850200	2.118640	29.547717	1.176030	0.018433	0.189637	0.032826	0.002258	0.001422	0.088788	0.000387	0.008326	0.004538	0.001284	0.012844
6-Sep-2024	10.003993	8.441310	13.044600	2.133750	29.864734	1.195080	0.018582	0.191088	0.032854	0.002289	0.001422	0.089374	0.000394	0.008388	0.004599	0.001300	0.012998
7-Sep-2024	9.935256	8.399230	12.968800	2.127420	29.733593	1.187380	0.018499	0.190254	0.032784	0.002276	0.001422	0.089497	0.000391	0.008354	0.004574	0.001293	0.012934
8-Sep-2024	9.417276	8.475680	13.105400	2.139360	29.973657	1.201080	0.018637	0.191632	0.032879	0.002302	0.001422	0.089018	0.000396	0.008415	0.004620	0.001305	0.013047
9-Sep-2024	8.931939	8.463080	13.081700	2.137560	29.934783	1.198690	0.018614	0.191401	0.032860	0.002299	0.001422	0.089158	0.000395	0.008406	0.004613	0.001303	0.013028
10-Sep-2024	8.495200	8.675480	13.475900	2.169500	30.596675	1.237870	0.018971	0.194944	0.033076	0.002363	0.001424	0.088994	0.000408	0.008553	0.004741	0.001335	0.013349
11-Sep-2024	8.568395	8.644600	13.418400	2.165100	30.501448	1.231940	0.018908	0.194290	0.033014	0.002354	0.001424	0.089390	0.000406	0.008531	0.004722	0.001330	0.013300
12-Sep-2024	8.868661	8.597090	13.331600	2.158080	30.353907	1.223150	0.018816	0.193356	0.032927	0.002341	0.001423	0.089258	0.000404	0.008494	0.004693	0.001323	0.013227
13-Sep-2024	9.207331	8.786350	13.681600	2.186520	30.943605	1.258050	0.019142	0.196609	0.033145	0.002398	0.001425	0.089271	0.000415	0.008628	0.004808	0.001351	0.013514
14-Sep-2024	8.990773	8.790070	13.689300	2.187160	30.955530	1.258700	0.019138	0.196548	0.033119	0.002401	0.001425	0.089315	0.000416	0.008629	0.004810	0.001352	0.013519
15-Sep-2024	8.952281	8.827110	13.758200	2.192790	31.071203	1.265500	0.019196	0.197115	0.033140	0.002413	0.001425	0.089409	0.000418	0.008653	0.004833	0.001357	0.013574
16-Sep-2024	8.960809	9.052120	14.174600	2.226720	31.772777	1.306930	0.019579	0.200928	0.033390	0.002480	0.001427	0.089890	0.000432	0.008812	0.004969	0.001391	0.013915
17-Sep-2024	9.285634	8.815180	13.741400	2.190890	31.033589	1.263400	0.019146	0.196585	0.033034	0.002408	0.001423	0.089217	0.000417	0.008634	0.004825	0.001355	0.013555
18-Sep-2024	9.529298	8.851550	13.813600	2.196170	31.146148	1.270330	0.019184	0.196929	0.033024	0.002420	0.001422	0.089220	0.000420	0.008650	0.004847	0.001361	0.013610
19-Sep-2024	8.878241	8.909710	13.915900	2.205180	31.328477	1.280680	0.019296	0.198040	0.033100	0.002440	0.001424	0.089871	0.000423	0.008700	0.004882	0.001369	0.013695
20-Sep-2024	8.354214	8.924140	13.943000	2.207690	31.374845	1.283230	0.019305	0.198114	0.033057	0.002448	0.001423	0.090273	0.000424	0.008707	0.004891	0.001371	0.013713
21-Sep-2024	8.268635	8.859970	13.821000	2.198390	31.176315	1.271350	0.019189	0.196943	0.032932	0.002441	0.001422	0.090137	0.000420	0.008664	0.004853	0.001361	0.013610
22-Sep-2024	7.992446	9.200920	14.454200	2.249470	32.238015	1.334080	0.019782	0.202871	0.033390	0.002529	0.001427	0.090716	0.000441	0.008904	0.005058	0.001413	0.014134
23-Sep-2024	7.591708	9.075190	14.225200	2.230470	31.845825	1.310980	0.019548	0.200524	0.033185	0.002490	0.001424	0.089983	0.000434	0.008808	0.004982	0.001394	0.013943
24-Sep-2024	6.979023	9.035030	14.152900	2.224450	31.720755	1.303660	0.019465	0.199672	0.033083	0.002480	0.001423	0.090117	0.000431	0.008775	0.004957	0.001388	0.013880
25-Sep-2024	6.571061	9.084820	14.245300	2.231850	31.875554	1.312840	0.019548	0.200497	0.033133	0.002495	0.001423	0.090348	0.000434	0.008810	0.004987	0.001395	0.013955
26-Sep-2024	5.950738	9.248050	14.545300	2.256600	32.385060	1.342810	0.019834	0.203351	0.033339	0.002545	0.001426	0.090274	0.000445	0.008928	0.005087	0.001420	0.014202
27-Sep-2024	5.527241	9.295620	14.636800	2.263670	32.532956	1.351730	0.019898	0.203974	0.033335	0.002560	0.001425	0.090303	0.000448	0.008955	0.005115	0.001427	0.014274
28-Sep-2024	5.138438	9.311990	14.668300	2.266160	32.584086	1.354720	0.019919	0.204167	0.033329	0.002564	0.001425	0.090279	0.000449	0.008964	0.005125	0.001430	0.014298
29-Sep-2024	5.004742	9.405540	14.837500	2.280580	32.877062	1.371610	0.020087	0.205829	0.033463	0.002593	0.001427	0.090597	0.000454	0.009036	0.005182	0.001444	0.014438
30-Sep-2024	4.527215	9.342330	14.723800	2.270970	32.679652	1.360130	0.019966	0.204618	0.033351	0.002573	0.001426	0.090370	0.000451	0.008985	0.005143	0.001434	0.014343

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
1-Oct-2024	4.161636	9.296020	14.642000	2.263740	32.534243	1.351810	0.019871	0.203665	0.033266	0.002559	0.001424	0.090203	0.000448	0.008946	0.005115	0.001427	0.014273
2-Oct-2024	4.002358	9.559160	15.122100	2.303740	33.356024	1.399890	0.020345	0.208387	0.033624	0.002639	0.001429	0.090921	0.000464	0.009144	0.005275	0.001467	0.014671
3-Oct-2024	3.949506	9.350230	14.741800	2.271640	32.702138	1.361810	0.019965	0.204589	0.033310	0.002576	0.001424	0.090288	0.000451	0.008986	0.005148	0.001435	0.014354
4-Oct-2024	3.803684	9.278100	14.608900	2.260560	32.476402	1.348770	0.019853	0.203493	0.033262	0.002552	0.001423	0.090186	0.000447	0.008936	0.005104	0.001425	0.014247
5-Oct-2024	3.587191	9.257830	14.572800	2.257390	32.412734	1.345030	0.019805	0.202993	0.033195	0.002548	0.001422	0.090285	0.000446	0.008918	0.005092	0.001421	0.014214
6-Oct-2024	3.175915	9.225440	14.513700	2.252220	32.310566	1.339210	0.019748	0.202426	0.033144	0.002539	0.001421	0.090338	0.000444	0.008894	0.005073	0.001416	0.014165
7-Oct-2024	2.409870	9.196390	14.460400	2.247610	32.219044	1.334020	0.019701	0.201965	0.033112	0.002530	0.001421	0.090110	0.000442	0.008874	0.005055	0.001412	0.014121
8-Oct-2024	1.672246	9.174980	14.421400	2.244110	32.151170	1.330230	0.019667	0.201629	0.033089	0.002524	0.001420	0.090024	0.000441	0.008858	0.005042	0.001409	0.014088
9-Oct-2024	1.103384	9.154920	14.385200	2.240710	32.087079	1.326730	0.019635	0.201317	0.033069	0.002518	0.001419	0.089993	0.000439	0.008844	0.005031	0.001406	0.014058
10-Oct-2024	0.748611	9.156110	14.387800	2.240790	32.090380	1.326990	0.019636	0.201324	0.033066	0.002518	0.001419	0.089891	0.000439	0.008844	0.005031	0.001406	0.014060
11-Oct-2024	0.343077	9.126550	14.334400	2.235810	31.996061	1.321830	0.019589	0.200865	0.033037	0.002509	0.001418	0.090303	0.000438	0.008823	0.005014	0.001402	0.014016
12-Oct-2024	0.114027	9.108820	14.302200	2.232930	31.939929	1.318700	0.019561	0.200593	0.033020	0.002503	0.001418	0.090304	0.000437	0.008810	0.005003	0.001399	0.013989
13-Oct-2024	0.028424	9.098710	14.284600	2.231020	31.906819	1.317010	0.019542	0.200407	0.032997	0.002501	0.001417	0.090110	0.000436	0.008802	0.004997	0.001397	0.013974
14-Oct-2024	0.044065	9.088420	14.265800	2.229350	31.874248	1.315180	0.019525	0.200237	0.032981	0.002498	0.001417	0.090321	0.000435	0.008795	0.004991	0.001396	0.013958
15-Oct-2024	0.085851	9.078540	14.248300	2.227580	31.842289	1.313500	0.019507	0.200065	0.032963	0.002495	0.001416	0.090006	0.000435	0.008787	0.004985	0.001394	0.013943
16-Oct-2024	0.089786	9.098770	14.279200	2.232810	31.914340	1.316320	0.019552	0.200528	0.033043	0.002501	0.001420	0.090314	0.000436	0.008808	0.004996	0.001397	0.013974
17-Oct-2024	0.090480	9.173050	14.394200	2.251610	32.177236	1.326880	0.019715	0.202204	0.033328	0.002521	0.001432	0.091271	0.000439	0.008881	0.005037	0.001409	0.014088
18-Oct-2024	0.089222	9.256910	14.524900	2.272440	32.472412	1.338880	0.019897	0.204068	0.033638	0.002545	0.001446	0.092295	0.000443	0.008963	0.005083	0.001422	0.014217
19-Oct-2024	0.088609	9.268750	14.538600	2.276950	32.520549	1.339970	0.019931	0.204438	0.033723	0.002548	0.001450	0.093259	0.000443	0.008979	0.005088	0.001424	0.014235
20-Oct-2024	0.089418	9.242570	14.500000	2.269710	32.425363	1.336500	0.019870	0.203804	0.033606	0.002541	0.001457	0.094140	0.000442	0.008951	0.005075	0.001419	0.014195
21-Oct-2024	0.089451	9.256220	14.521500	2.273030	32.473119	1.338480	0.019899	0.204103	0.033654	0.002545	0.001470	0.094986	0.000443	0.008964	0.005082	0.001422	0.014216
22-Oct-2024	0.089498	9.287770	14.571600	2.280600	32.583072	1.343110	0.019966	0.204787	0.033765	0.002553	0.001481	0.095679	0.000445	0.008994	0.005099	0.001426	0.014264
23-Oct-2024	0.089142	9.292340	14.569400	2.289730	32.632081	1.342850	0.019992	0.205090	0.033953	0.002559	0.001489	0.096051	0.000444	0.009010	0.005100	0.001427	0.014269
24-Oct-2024	0.089277	9.310280	14.602200	2.306550	32.746142	1.345810	0.020025	0.205412	0.034202	0.002578	0.001499	0.096569	0.000445	0.009041	0.005111	0.001430	0.014299
25-Oct-2024	0.089320	9.338910	14.646000	2.323620	32.887925	1.349850	0.020129	0.206895	0.034456	0.002597	0.001508	0.097105	0.000447	0.009111	0.005126	0.001434	0.014343
26-Oct-2024	0.089515	9.379900	14.710300	2.339710	33.056536	1.355790	0.020280	0.208427	0.034695	0.002615	0.001517	0.097590	0.000449	0.009177	0.005149	0.001441	0.014406
27-Oct-2024	0.089591	9.431710	14.766800	2.355730	33.251876	1.361010	0.020428	0.209929	0.034932	0.002633	0.001527	0.098114	0.000450	0.009242	0.005168	0.001446	0.014460
28-Oct-2024	0.091424	9.503140	14.815200	2.371630	33.495713	1.365450	0.020576	0.211427	0.035167	0.002651	0.001536	0.098612	0.000452	0.009307	0.005198	0.001457	0.014571
29-Oct-2024	0.095661	9.579310	14.913700	2.388610	33.755833	1.370770	0.020733	0.213022	0.035416	0.002670	0.001545	0.099145	0.000453	0.009376	0.005241	0.001469	0.014689
30-Oct-2024	0.098928	9.656630	15.038800	2.406400	34.022160	1.382430	0.020894	0.214668	0.035678	0.002690	0.001556	0.099757	0.000457	0.009447	0.005284	0.001481	0.014808
31-Oct-2024	0.100237	9.732510	15.159700	2.424440	34.285921	1.393640	0.021055	0.216311	0.035944	0.002710	0.001567	0.100431	0.000461	0.009519	0.005326	0.001493	0.014925
1-Nov-2024	0.100325	9.790390	15.254100	2.437540	34.484394	1.402450	0.021175	0.217530	0.036136	0.002725	0.001574	0.100861	0.000464	0.009572	0.005358	0.001501	0.015015
2-Nov-2024	0.098900	9.845300	15.340900	2.450820	34.676191	1.410470	0.021292	0.218727	0.036331	0.002740	0.001583	0.101377	0.000467	0.009625	0.005389	0.001510	0.015099
3-Nov-2024	0.097480	9.919550	15.453700	2.470230	34.941523	1.420740	0.021456	0.220418	0.036619	0.002762	0.001596	0.102260	0.000470	0.009700	0.005429	0.001521	0.015212
4-Nov-2024	0.096738	9.985110	15.551300	2.487960	35.178239	1.429570	0.021603	0.221947	0.036884	0.002781	0.001608	0.103115	0.000473	0.009768	0.005464	0.001531	0.015312
5-Nov-2024	0.098071	10.049700	15.649000	2.505000	35.409691	1.438450	0.021747	0.223435	0.037139	0.002800	0.001620	0.103901	0.000476	0.009834	0.005499	0.001541	0.015411
6-Nov-2024	0.099619	10.077800	15.688900	2.513150	35.513418	1.442000	0.021812	0.224119	0.037262	0.002809	0.001626	0.104339	0.000477	0.009864	0.005514	0.001545	0.015453
7-Nov-2024	0.100887	10.151000	15.801100	2.531960	35.773658	1.452260	0.021973	0.225777	0.037542	0.002830	0.001638	0.105167	0.000480	0.009938	0.005554	0.001556	0.015565
8-Nov-2024	0.101142	10.228000	15.919900	2.551520	36.046475	1.463140	0.022141	0.227509	0.037833	0.002852	0.001651	0.106009	0.000484	0.010014	0.005595	0.001568	0.015683
9-Nov-2024	0.100087	10.277300	15.997100	2.563700	36.219735	1.470240	0.022248	0.228600	0.038014	0.002866	0.001659	0.106504	0.000486	0.010062	0.005623	0.001576	0.015758
10-Nov-2024	0.098492	10.349500	16.108800	2.581900	36.474966	1.480500	0.022405	0.230218	0.038285	0.002886	0.001671	0.107276	0.000490	0.010133	0.005662	0.001587	0.015869
11-Nov-2024	0.097926	10.416800	16.213300	2.598730	36.712320	1.490110	0.022552	0.231726	0.038536	0.002905	0.001682	0.107980	0.000493	0.010199	0.005699	0.001597	0.015972
12-Nov-2024	0.098454	10.485600	16.321700	2.615430	36.952884	1.500140	0.022700	0.233249	0.038787	0.002923	0.001693	0.108635	0.000496	0.010266	0.005737	0.001608	0.016078
13-Nov-2024	0.099199	10.551000	16.426700	2.630730	37.179193	1.509910	0.022839	0.234669	0.039017	0.002940	0.001702	0.109184	0.000499	0.010327	0.005773	0.001618	0.016179
14-Nov-2024	0.099895	10.608400	16.519800	2.643850	37.376549	1.518600	0.022960	0.235896	0.039213	0.002955	0.001710	0.109627	0.000502	0.010381	0.005805	0.001627	0.016268
15-Nov-2024	0.099761	10.670800	16.618700	2.658790	37.593885	1.527760	0.023093	0.237257	0.039435	0.002972	0.001719	0.110197	0.000505	0.010440	0.005839	0.001636	0.016364
16-Nov-2024	0.098714	10.742100	16.729200	2.676710	37.845715	1.537910	0.023248	0.238852	0.039701	0.002992	0.001731	0.110952	0.000509	0.010510	0.005878	0.001647	0.016473
17-Nov-2024	0.097374	10.816800	16.845200	2.695450	38.109413	1.548560	0.023410	0.240519	0.039979	0.003013	0.001743	0.111739	0.000512	0.010584	0.005919	0.001659	0.016588
18-Nov-2024	0.097197	10.795800	16.811800	2.690400	38.036180	1.545480	0.023366	0.240066	0.039906	0.003007	0.001740	0.111546	0.000511	0.010564	0.005908	0.001656	0.016555
19-Nov-2024	0.097691	10.855400	16.906800	2.704620	38.243559	1.554270	0.023492	0.241358	0.040115	0.003023	0.001748	0.112079	0.000514	0.010620	0.005940	0.001665	0.016647
20-Nov-2024	0.097543	10.903100	16.985300	2.715190	38.406193	1.561630	0.023590	0.242351	0.040270	0.003035	0.001754	0.112404	0.000517	0.010663	0.005967	0.001672	0.016721
21-Nov-2024	0.097685	10.935300	17.041000	2.721480	38.512499	1.566930	0.023653	0.242978	0.040360	0.003042	0.001757	0.112516	0.000518	0.010690	0.005986	0.001677	0.016772
22-Nov-2024	0.098531	10.967900	17.096900	2.727960	38.620586	1.572230	0.023717	0.243618	0.040454	0.003050	0.001760	0.112645	0.000520	0.010717	0.006004	0.001682	0.016823

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
23-Nov-2024	0.099027	11.010700	17.168100	2.737220	38.765590	1.578930	0.023804	0.244497	0.040589	0.003060	0.001765	0.112907	0.000522	0.010755	0.006029	0.001689	0.016890
24-Nov-2024	0.098354	11.059300	17.244500	2.749150	38.936072	1.585970	0.023908	0.245568	0.040765	0.003073	0.001773	0.113385	0.000525	0.010802	0.006055	0.001696	0.016964
25-Nov-2024	0.097531	11.118700	17.339500	2.763150	39.142046	1.594780	0.024034	0.246848	0.040972	0.003089	0.001781	0.113897	0.000528	0.010858	0.006088	0.001706	0.017056
26-Nov-2024	0.097544	11.175600	17.430200	2.776620	39.339594	1.603200	0.024154	0.248077	0.041170	0.003104	0.001790	0.114395	0.000530	0.010912	0.006120	0.001714	0.017143
27-Nov-2024	0.097796	11.233800	17.522700	2.790590	39.542448	1.611760	0.024278	0.249345	0.041377	0.003120	0.001798	0.114931	0.000533	0.010968	0.006152	0.001723	0.017233
28-Nov-2024	0.097604	11.288800	17.610500	2.803630	39.733482	1.619900	0.024394	0.250534	0.041569	0.003134	0.001806	0.115422	0.000536	0.011020	0.006182	0.001732	0.017318
29-Nov-2024	0.097601	11.081600	17.293200	2.750300	38.996491	1.590920	0.023940	0.245847	0.040777	0.003075	0.001771	0.113059	0.000526	0.010812	0.006070	0.001700	0.017001
30-Nov-2024	0.097946	11.140300	17.385300	2.764720	39.202446	1.599400	0.024066	0.247141	0.040991	0.003091	0.001780	0.113659	0.000529	0.010869	0.006102	0.001709	0.017092
1-Dec-2024	0.097864	11.202200	17.482200	2.779940	39.419686	1.608330	0.024199	0.248507	0.041217	0.003108	0.001790	0.114296	0.000532	0.010929	0.006136	0.001719	0.017186
2-Dec-2024	0.097608	11.261800	17.573600	2.795290	39.631719	1.616730	0.024330	0.249859	0.041445	0.003125	0.001800	0.114925	0.000535	0.010989	0.006168	0.001728	0.017278
3-Dec-2024	0.097587	11.331200	17.682100	2.812400	39.875470	1.626670	0.024480	0.251392	0.041699	0.003144	0.001811	0.115620	0.000538	0.011056	0.006206	0.001738	0.017384
4-Dec-2024	0.097604	11.150700	17.406800	2.765610	39.232080	1.601560	0.024082	0.247291	0.041003	0.003092	0.001779	0.113525	0.000530	0.010875	0.006108	0.001711	0.017109
5-Dec-2024	0.097429	11.205000	17.494600	2.778110	39.419142	1.609750	0.024196	0.248446	0.041187	0.003106	0.001787	0.113955	0.000533	0.010925	0.006139	0.001719	0.017193
6-Dec-2024	0.097371	11.262400	17.587000	2.791480	39.617527	1.618340	0.024316	0.249675	0.041384	0.003121	0.001795	0.114429	0.000535	0.010979	0.006171	0.001728	0.017281
7-Dec-2024	0.097552	11.325300	17.687700	2.806270	39.835494	1.627680	0.024449	0.251028	0.041602	0.003138	0.001804	0.114968	0.000538	0.011038	0.006205	0.001738	0.017378
8-Dec-2024	0.097592	11.388100	17.787800	2.821200	40.053787	1.636960	0.024582	0.252388	0.041822	0.003155	0.001813	0.115525	0.000542	0.011097	0.006240	0.001747	0.017475
9-Dec-2024	0.097526	11.441600	17.873500	2.833840	40.239428	1.644910	0.024695	0.253543	0.042008	0.003169	0.001820	0.115988	0.000544	0.011148	0.006270	0.001756	0.017558
10-Dec-2024	0.097484	11.500200	17.965800	2.848090	40.444434	1.653440	0.024821	0.254828	0.042219	0.003185	0.001829	0.116549	0.000547	0.011204	0.006302	0.001765	0.017648
11-Dec-2024	0.097662	11.545100	18.037600	2.858690	40.600200	1.660100	0.024915	0.255796	0.042376	0.003197	0.001836	0.116938	0.000549	0.011246	0.006327	0.001772	0.017717
12-Dec-2024	0.097572	11.582400	18.098800	2.866970	40.727435	1.665830	0.024992	0.256574	0.042497	0.003206	0.001841	0.117196	0.000551	0.011280	0.006348	0.001777	0.017775
13-Dec-2024	0.097529	11.622600	18.165800	2.875610	40.863394	1.672140	0.025074	0.257397	0.042623	0.003216	0.001845	0.117436	0.000553	0.011316	0.006370	0.001784	0.017837
14-Dec-2024	0.097539	11.674700	18.251900	2.887070	41.040680	1.680210	0.025180	0.258478	0.042790	0.003229	0.001852	0.117781	0.000556	0.011362	0.006400	0.001792	0.017918
15-Dec-2024	0.097363	11.716800	18.321900	2.896140	41.183154	1.686790	0.025266	0.259342	0.042923	0.003239	0.001856	0.118037	0.000558	0.011400	0.006423	0.001798	0.017984
16-Dec-2024	0.097340	11.760300	18.391500	2.906400	41.334024	1.693250	0.025358	0.260279	0.043074	0.003251	0.001863	0.118412	0.000560	0.011441	0.006448	0.001805	0.018051
17-Dec-2024	0.097474	11.810700	18.470100	2.918950	41.511554	1.700480	0.025467	0.261400	0.043260	0.003265	0.001871	0.118931	0.000563	0.011490	0.006475	0.001813	0.018128
18-Dec-2024	0.097342	11.855900	18.541400	2.929940	41.669675	1.707060	0.025564	0.262391	0.043423	0.003277	0.001878	0.119363	0.000565	0.011533	0.006500	0.001820	0.018197
19-Dec-2024	0.097266	11.893800	18.603400	2.938410	41.799191	1.712870	0.025642	0.263183	0.043547	0.003286	0.001882	0.119632	0.000567	0.011568	0.006521	0.001826	0.018256
20-Dec-2024	0.097384	11.941300	18.681700	2.948870	41.960873	1.720200	0.025739	0.264169	0.043700	0.003298	0.001888	0.119949	0.000569	0.011610	0.006548	0.001833	0.018330
21-Dec-2024	0.097283	11.994500	18.768100	2.961040	42.143829	1.728270	0.025850	0.265298	0.043878	0.003312	0.001895	0.120360	0.000572	0.011659	0.006578	0.001841	0.018412
22-Dec-2024	0.097203	11.999500	18.778900	2.961330	42.157508	1.729350	0.025857	0.265360	0.043881	0.003312	0.001895	0.120291	0.000572	0.011662	0.006581	0.001842	0.018420
23-Dec-2024	0.097343	12.031000	18.830500	2.968410	42.265319	1.734180	0.025922	0.266021	0.043985	0.003320	0.001899	0.120518	0.000574	0.011690	0.006598	0.001847	0.018469
24-Dec-2024	0.097294	12.072600	18.897600	2.978040	42.408851	1.740430	0.026009	0.266909	0.044127	0.003331	0.001905	0.120855	0.000576	0.011729	0.006622	0.001853	0.018534
25-Dec-2024	0.097190	12.089700	18.926800	2.981510	42.465839	1.743190	0.026043	0.267249	0.044177	0.003335	0.001906	0.120931	0.000577	0.011744	0.006631	0.001856	0.018560
26-Dec-2024	0.097266	12.110600	18.961000	2.986190	42.537299	1.746390	0.026086	0.267687	0.044245	0.003340	0.001909	0.121081	0.000578	0.011763	0.006643	0.001859	0.018593
27-Dec-2024	0.097227	12.125900	18.986600	2.989430	42.588845	1.748810	0.026117	0.267998	0.044293	0.003344	0.001911	0.121167	0.000579	0.011776	0.006652	0.001862	0.018617
28-Dec-2024	0.097181	12.153100	19.029900	2.995880	42.683325	1.752820	0.026175	0.268585	0.044388	0.003351	0.001915	0.121406	0.000580	0.011802	0.006667	0.001866	0.018658
29-Dec-2024	0.097283	12.191200	19.090100	3.005080	42.816346	1.758390	0.026256	0.269417	0.044524	0.003362	0.001920	0.121763	0.000582	0.011838	0.006688	0.001872	0.018717
30-Dec-2024	0.097300	12.242200	19.170300	3.017560	42.995085	1.765780	0.026365	0.270539	0.044708	0.003376	0.001928	0.122261	0.000584	0.011888	0.006716	0.001880	0.018795
31-Dec-2024	0.097214	12.290600	19.246400	3.029400	43.164697	1.772800	0.026469	0.271604	0.044884	0.003389	0.001936	0.122732	0.000587	0.011934	0.006742	0.001887	0.018870
1-Jan-2025	0.097250	12.333000	19.313100	3.039790	43.313356	1.778950	0.026560	0.272539	0.045038	0.003401	0.001942	0.123148	0.000589	0.011975	0.006766	0.001893	0.018935
2-Jan-2025	0.097261	12.376500	19.381200	3.050490	43.466038	1.785230	0.026654	0.273498	0.045196	0.003413	0.001949	0.123579	0.000591	0.012017	0.006789	0.001900	0.019002
3-Jan-2025	0.097272	12.409300	19.432600	3.058600	43.581337	1.789970	0.026725	0.274225	0.045316	0.003422	0.001955	0.123909	0.000592	0.012049	0.006808	0.001905	0.019052
4-Jan-2025	0.097305	12.434900	19.472300	3.064990	43.671574	1.793610	0.026780	0.274795	0.045411	0.003429	0.001959	0.124177	0.000594	0.012074	0.006821	0.001909	0.019091
5-Jan-2025	0.097377	12.470800	19.528000	3.074010	43.798361	1.798720	0.026858	0.275596	0.045545	0.003439	0.001965	0.124556	0.000595	0.012110	0.006841	0.001915	0.019146
6-Jan-2025	0.097315	12.518400	19.602100	3.085910	43.966222	1.805540	0.026961	0.276657	0.045721	0.003452	0.001972	0.125051	0.000597	0.012156	0.006867	0.001922	0.019219
7-Jan-2025	0.097307	12.561800	19.669600	3.096700	44.119025	1.811740	0.027055	0.277620	0.045881	0.003464	0.001979	0.125499	0.000600	0.012199	0.006891	0.001929	0.019286
8-Jan-2025	0.097393	12.607400	19.740700	3.108110	44.279875	1.818270	0.027154	0.278637	0.046051	0.003477	0.001987	0.125975	0.000602	0.012244	0.006916	0.001936	0.019356
9-Jan-2025	0.097400	12.661800	19.825100	3.121710	44.471716	1.826020	0.027272	0.279848	0.046252	0.003492	0.001995	0.126543	0.000604	0.012297	0.006946	0.001944	0.019439
10-Jan-2025	0.097441	12.713200	19.905100	3.134580	44.653061	1.833370	0.027383	0.280995	0.046443	0.003506	0.002004	0.127080	0.000607	0.012347	0.006974	0.001952	0.019518
11-Jan-2025	0.097521	12.764800	19.985400	3.147400	44.834699	1.840760	0.027495	0.282140	0.046633	0.003521	0.002012	0.127610	0.000609	0.012398	0.007002	0.001960	0.019597
12-Jan-2025	0.097547	12.821000	20.073200	3.161300	45.032270	1.848840	0.027616	0.283384	0.046839	0.003536	0.002021	0.128177	0.000612	0.012452	0.007033	0.001968	0.019683
13-Jan-2025	0.097509	12.879800	20.165400	3.175820	45.238887	1.857330	0.027743	0.284686	0.047055	0.003553	0.002030	0.128766	0.000615	0.012510	0.007065	0.001977	0.019774
14-Jan-2025	0.097473	12.941600	20.261900	3.191120	45.456207	1.866210	0.027876	0.286054	0.047281	0.003570	0.002040	0.129394	0.000618	0.012570	0.007099	0.001987	0.019868

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
15-Jan-2025	0.097476	13.005700	20.361400	3.207150	45.682277	1.875350	0.028015	0.287482	0.047519	0.003588	0.002051	0.130063	0.000621	0.012633	0.007134	0.001997	0.019967
16-Jan-2025	0.097439	13.069400	20.460600	3.223050	45.906812	1.884460	0.028153	0.288900	0.047755	0.003605	0.002061	0.130724	0.000624	0.012695	0.007169	0.002006	0.020064
17-Jan-2025	0.097426	13.129900	20.555400	3.237950	46.119238	1.893200	0.028283	0.290236	0.047976	0.003622	0.002070	0.131326	0.000626	0.012754	0.007202	0.002016	0.020157
18-Jan-2025	0.097476	13.188800	20.648100	3.252310	46.325446	1.901760	0.028409	0.291530	0.048188	0.003638	0.002079	0.131895	0.000629	0.012811	0.007234	0.002025	0.020248
19-Jan-2025	0.097462	13.249900	20.744300	3.267200	46.539330	1.910630	0.028540	0.292871	0.048409	0.003655	0.002089	0.132484	0.000632	0.012869	0.007268	0.002034	0.020342
20-Jan-2025	0.097413	13.307900	20.835800	3.281300	46.742220	1.919080	0.028665	0.294143	0.048617	0.003671	0.002098	0.133038	0.000635	0.012925	0.007300	0.002043	0.020431
21-Jan-2025	0.097461	13.357200	20.914100	3.293150	46.914120	1.926330	0.028770	0.295218	0.048792	0.003684	0.002105	0.133490	0.000637	0.012972	0.007327	0.002051	0.020507
22-Jan-2025	0.097480	13.404500	20.989300	3.304430	47.078679	1.933290	0.028870	0.296244	0.048959	0.003697	0.002112	0.133916	0.000640	0.013017	0.007353	0.002058	0.020580
23-Jan-2025	0.097473	13.462900	21.081500	3.318580	47.282774	1.941810	0.028995	0.297522	0.049168	0.003712	0.002121	0.134468	0.000643	0.013073	0.007385	0.002067	0.020669
24-Jan-2025	0.097496	13.525200	21.179700	3.333700	47.500601	1.950890	0.029128	0.298886	0.049392	0.003729	0.002130	0.135061	0.000646	0.013133	0.007420	0.002077	0.020765
25-Jan-2025	0.097503	13.590500	21.282800	3.349590	47.729090	1.960400	0.029268	0.300319	0.049627	0.003747	0.002140	0.135685	0.000649	0.013196	0.007456	0.002087	0.020866
26-Jan-2025	0.097510	13.658600	21.390000	3.366140	47.967289	1.970300	0.029413	0.301811	0.049872	0.003766	0.002151	0.136337	0.000652	0.013261	0.007493	0.002097	0.020970
27-Jan-2025	0.097544	13.729900	21.502400	3.383510	48.216854	1.980680	0.029566	0.303378	0.050129	0.003785	0.002162	0.137023	0.000655	0.013330	0.007532	0.002108	0.021080
28-Jan-2025	0.097573	13.804100	21.619300	3.401600	48.476627	1.991460	0.029725	0.305007	0.050397	0.003805	0.002173	0.137738	0.000659	0.013402	0.007573	0.002119	0.021194
29-Jan-2025	0.097593	13.880900	21.740200	3.420330	48.745526	2.002620	0.029890	0.306694	0.050674	0.003826	0.002185	0.138480	0.000663	0.013476	0.007615	0.002131	0.021312
30-Jan-2025	0.097575	13.960500	21.865300	3.439740	49.024218	2.014170	0.030060	0.308442	0.050961	0.003848	0.002197	0.139249	0.000667	0.013552	0.007659	0.002143	0.021434
31-Jan-2025	0.097570	14.041600	21.993000	3.459540	49.308261	2.025950	0.030234	0.310225	0.051254	0.003870	0.002210	0.140035	0.000670	0.013630	0.007704	0.002156	0.021559
1-Feb-2025	0.097586	14.124700	22.123700	3.479820	49.599275	2.038010	0.030413	0.312051	0.051554	0.003893	0.002223	0.140840	0.000674	0.013711	0.007749	0.002169	0.021687
2-Feb-2025	0.097590	14.209400	22.257000	3.500530	49.896054	2.050310	0.030594	0.313914	0.051861	0.003916	0.002236	0.141663	0.000679	0.013792	0.007796	0.002182	0.021817
3-Feb-2025	0.097584	14.296000	22.393200	3.521680	50.199390	2.062860	0.030780	0.315818	0.052174	0.003940	0.002249	0.142504	0.000683	0.013876	0.007843	0.002195	0.021950
4-Feb-2025	0.097586	14.384400	22.532200	3.543290	50.509115	2.075690	0.030970	0.317762	0.052494	0.003964	0.002263	0.143364	0.000687	0.013961	0.007892	0.002209	0.022086
5-Feb-2025	0.097586	14.475100	22.674700	3.565460	50.826889	2.088840	0.031164	0.319757	0.052822	0.003989	0.002277	0.144247	0.000691	0.014049	0.007942	0.002223	0.022225
6-Feb-2025	0.097579	14.569300	22.822800	3.588520	51.157067	2.102490	0.031367	0.321831	0.053163	0.004015	0.002291	0.145167	0.000696	0.014140	0.007994	0.002237	0.022370
7-Feb-2025	0.097575	14.666700	22.975300	3.612530	51.499148	2.116540	0.031576	0.323984	0.053519	0.004042	0.002307	0.146140	0.000700	0.014235	0.008047	0.002252	0.022519
8-Feb-2025	0.097569	14.766700	23.132900	3.636900	51.849204	2.131090	0.031791	0.326180	0.053880	0.004069	0.002322	0.147103	0.000705	0.014331	0.008102	0.002267	0.022673
9-Feb-2025	0.097564	14.873500	23.300500	3.663070	52.223652	2.146540	0.032020	0.328532	0.054267	0.004098	0.002339	0.148151	0.000710	0.014434	0.008161	0.002284	0.022837
10-Feb-2025	0.097560	14.983600	23.473400	3.690080	52.609799	2.162480	0.032257	0.330958	0.054667	0.004128	0.002356	0.149233	0.000716	0.014541	0.008221	0.002301	0.023006
11-Feb-2025	0.097550	15.116000	23.681300	3.722500	53.073907	2.181650	0.032541	0.333873	0.055147	0.004165	0.002377	0.150529	0.000722	0.014669	0.008294	0.002321	0.023210
12-Feb-2025	0.097541	15.247400	23.887700	3.754730	53.534736	2.200680	0.032823	0.336769	0.055625	0.004201	0.002397	0.151820	0.000728	0.014796	0.008366	0.002341	0.023412
13-Feb-2025	0.097540	15.386900	24.106500	3.788970	54.024068	2.220850	0.033123	0.339844	0.056132	0.004239	0.002419	0.153195	0.000735	0.014931	0.008443	0.002363	0.023626
14-Feb-2025	0.097536	15.523800	24.321400	3.822590	54.504354	2.240660	0.033418	0.342864	0.056630	0.004277	0.002440	0.154546	0.000742	0.015063	0.008518	0.002384	0.023836
15-Feb-2025	0.097529	15.655500	24.528000	3.854930	54.966385	2.259700	0.033701	0.345768	0.057109	0.004313	0.002461	0.155846	0.000748	0.015191	0.008590	0.002404	0.024038
16-Feb-2025	0.097523	15.794100	24.745400	3.888990	55.452729	2.279730	0.033999	0.348825	0.057613	0.004351	0.002482	0.157216	0.000754	0.015325	0.008666	0.002425	0.024251
17-Feb-2025	0.097521	15.956100	24.999500	3.928750	56.020974	2.303160	0.034347	0.352397	0.058202	0.004395	0.002508	0.158814	0.000762	0.015482	0.008755	0.002450	0.024500
18-Feb-2025	0.097521	16.133300	25.277700	3.972260	56.642617	2.328800	0.034728	0.356304	0.058846	0.004444	0.002535	0.160560	0.000771	0.015654	0.008853	0.002477	0.024772
19-Feb-2025	0.097519	16.310400	25.555400	4.015730	57.263845	2.354400	0.035109	0.360208	0.059490	0.004493	0.002563	0.162307	0.000779	0.015825	0.008950	0.002504	0.025044
20-Feb-2025	0.097519	16.475600	25.814600	4.056310	57.843458	2.378290	0.035464	0.363853	0.060091	0.004538	0.002589	0.163939	0.000787	0.015985	0.009040	0.002530	0.025298
21-Feb-2025	0.097522	16.630800	26.058100	4.094450	58.388053	2.400730	0.035798	0.367277	0.060656	0.004581	0.002613	0.165473	0.000794	0.016136	0.009126	0.002554	0.025536
22-Feb-2025	0.097531	16.793700	26.313400	4.134490	58.959699	2.424260	0.036148	0.370870	0.061249	0.004626	0.002639	0.167087	0.000802	0.016293	0.009215	0.002579	0.025786
23-Feb-2025	0.097531	16.964200	26.580800	4.176440	59.558187	2.448900	0.036515	0.374635	0.061870	0.004673	0.002665	0.168779	0.000810	0.016459	0.009309	0.002605	0.026048
24-Feb-2025	0.097532	17.144900	26.864000	4.220870	60.192358	2.475000	0.036904	0.378623	0.062529	0.004722	0.002694	0.170570	0.000819	0.016634	0.009408	0.002633	0.026326
25-Feb-2025	0.097532	17.355200	27.193800	4.272600	60.930501	2.505380	0.037356	0.383265	0.063295	0.004780	0.002727	0.172656	0.000829	0.016838	0.009523	0.002665	0.026649
26-Feb-2025	0.097534	17.585300	27.554400	4.329210	61.738181	2.538610	0.037851	0.388344	0.064133	0.004843	0.002763	0.174940	0.000840	0.017061	0.009650	0.002700	0.027002
27-Feb-2025	0.097535	17.832800	27.942200	4.390100	62.606933	2.574340	0.038384	0.393807	0.065035	0.004912	0.002802	0.177399	0.000852	0.017301	0.009785	0.002738	0.027382
28-Feb-2025	0.097534	18.082100	28.333000	4.451470	63.482157	2.610350	0.038921	0.399313	0.065945	0.004980	0.002841	0.179877	0.000864	0.017543	0.009922	0.002777	0.027765
1-Mar-2025	0.097532	18.337800	28.733600	4.514400	64.379786	2.647260	0.039471	0.404958	0.066877	0.005051	0.002881	0.182419	0.000876	0.017791	0.010063	0.002816	0.028158
2-Mar-2025	0.097529	18.609500	29.159300	4.581260	65.333550	2.686480	0.040055	0.410957	0.067867	0.005125	0.002924	0.185120	0.000889	0.018054	0.010212	0.002857	0.028575
3-Mar-2025	0.097528	18.899700	29.614200	4.652710	66.352411	2.728380	0.040680	0.417366	0.068926	0.005205	0.002969	0.188006	0.000903	0.018336	0.010371	0.002902	0.029020
4-Mar-2025	0.097527	19.212200	30.103800	4.729650	67.449562	2.773500	0.041353	0.424268	0.070065	0.005292	0.003018	0.191116	0.000918	0.018639	0.010542	0.002950	0.029500
5-Mar-2025	0.097526	19.537600	30.613700	4.809770	68.592020	2.820470	0.042053	0.431454	0.071252	0.005381	0.003070	0.194354	0.000933	0.018955	0.010721	0.003000	0.030000
6-Mar-2025	0.097525	19.872900	31.138900	4.892310	69.769164	2.868850	0.042775	0.438858	0.072475	0.005473	0.003122	0.197691	0.000949	0.019280	0.010905	0.003051	0.030515
7-Mar-2025	0.097524	20.217800	31.679200	4.977250	70.980162	2.918640	0.043517	0.446476	0.073733	0.005569	0.003176	0.201125	0.000966	0.019615	0.011094	0.003104	0.031044
8-Mar-2025	0.097522	17.406400	27.271600	4.285890	61.113076	2.512480	0.037469	0.384429	0.063493	0.004795	0.002736	0.173254	0.000831	0.016889	0.009551	0.002673	0.026727

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
9-Mar-2025	0.097521	17.501300	27.420400	4.309220	61.446114	2.526190	0.037673	0.386523	0.063838	0.004821	0.002751	0.174194	0.000836	0.016981	0.009603	0.002687	0.026873
10-Mar-2025	0.097520	17.601200	27.577100	4.333790	61.796744	2.540630	0.037888	0.388729	0.064202	0.004849	0.002766	0.175185	0.000841	0.017078	0.009658	0.002703	0.027026
11-Mar-2025	0.097519	17.707900	27.744300	4.360030	62.171230	2.556040	0.038118	0.391083	0.064591	0.004878	0.002783	0.176243	0.000846	0.017182	0.009716	0.002719	0.027190
12-Mar-2025	0.097519	17.820100	27.920300	4.387650	62.565132	2.572260	0.038359	0.393561	0.065000	0.004909	0.002801	0.177357	0.000851	0.017291	0.009778	0.002736	0.027362
13-Mar-2025	0.097519	17.950200	28.124100	4.419630	63.021686	2.591030	0.038639	0.396431	0.065474	0.004945	0.002821	0.178648	0.000857	0.017417	0.009849	0.002756	0.027562
14-Mar-2025	0.097519	18.086100	28.337100	4.453070	63.498734	2.610660	0.038931	0.399432	0.065969	0.004982	0.002842	0.179997	0.000864	0.017548	0.009924	0.002777	0.027771
15-Mar-2025	0.097519	18.226100	28.556500	4.487520	63.990179	2.630880	0.039233	0.402522	0.066479	0.005021	0.002864	0.181388	0.000871	0.017684	0.010001	0.002799	0.027986
16-Mar-2025	0.097519	18.373500	28.787700	4.523810	64.507679	2.652170	0.039550	0.405778	0.067017	0.005061	0.002887	0.182853	0.000878	0.017827	0.010082	0.002821	0.028212
17-Mar-2025	0.097519	18.529000	29.031200	4.562060	65.053476	2.674620	0.039885	0.409210	0.067584	0.005104	0.002912	0.184397	0.000885	0.017978	0.010167	0.002845	0.028451
18-Mar-2025	0.097518	18.694200	29.290200	4.602720	65.633418	2.698470	0.040240	0.412858	0.068186	0.005149	0.002938	0.186039	0.000893	0.018138	0.010258	0.002870	0.028704
19-Mar-2025	0.097518	18.869100	29.564300	4.645780	66.247465	2.723730	0.040617	0.416721	0.068824	0.005198	0.002965	0.187778	0.000901	0.018308	0.010354	0.002897	0.028973
20-Mar-2025	0.097518	19.054500	29.854700	4.691390	66.898231	2.750490	0.041016	0.420813	0.069500	0.005249	0.002994	0.189621	0.000910	0.018488	0.010455	0.002926	0.029258
21-Mar-2025	0.097518	19.249800	30.160800	4.739470	67.583888	2.778680	0.041436	0.425126	0.070212	0.005302	0.003025	0.191562	0.000920	0.018677	0.010563	0.002956	0.029558
22-Mar-2025	0.097518	19.454900	30.482300	4.789970	68.303982	2.808310	0.041877	0.429656	0.070960	0.005359	0.003057	0.193603	0.000929	0.018876	0.010675	0.002987	0.029873
23-Mar-2025	0.097518	19.669500	30.818400	4.842780	69.057310	2.839280	0.042339	0.434394	0.071742	0.005418	0.003091	0.195737	0.000940	0.019084	0.010793	0.003020	0.030202
24-Mar-2025	0.097518	19.891100	31.165700	4.897340	69.835323	2.871270	0.042816	0.439288	0.072550	0.005479	0.003126	0.197941	0.000950	0.019299	0.010915	0.003054	0.030542
25-Mar-2025	0.097518	20.122700	31.528600	4.954360	70.648436	2.904700	0.043315	0.444402	0.073395	0.005543	0.003162	0.200245	0.000961	0.019524	0.011042	0.003090	0.030898
26-Mar-2025	0.097518	20.362400	31.904300	5.013380	71.490012	2.939310	0.043831	0.449697	0.074269	0.005609	0.003200	0.202630	0.000973	0.019757	0.011173	0.003127	0.031266
27-Mar-2025	0.097518	20.610600	32.293200	5.074480	72.361377	2.975140	0.044365	0.455178	0.075175	0.005677	0.003239	0.205099	0.000985	0.019998	0.011309	0.003165	0.031647
28-Mar-2025	0.097518	20.867300	32.695300	5.137660	73.262532	3.012190	0.044917	0.460845	0.076111	0.005748	0.003279	0.207653	0.000997	0.020247	0.011450	0.003204	0.032041
29-Mar-2025	0.097518	21.132400	33.110800	5.202950	74.193351	3.050470	0.045488	0.466702	0.077078	0.005821	0.003321	0.210291	0.001010	0.020504	0.011596	0.003245	0.032448
30-Mar-2025	0.097518	21.405900	33.539200	5.270260	75.153463	3.089940	0.046077	0.472740	0.078075	0.005896	0.003364	0.213011	0.001023	0.020769	0.011746	0.003287	0.032868
31-Mar-2025	0.097518	21.687900	33.981100	5.339700	76.143571	3.130660	0.046684	0.478969	0.079104	0.005974	0.003408	0.215818	0.001036	0.021043	0.011901	0.003330	0.033301
1-Apr-2025	0.097518	21.978600	34.436500	5.411260	77.164133	3.172610	0.047310	0.485387	0.080164	0.006054	0.003454	0.218710	0.001050	0.021325	0.012060	0.003375	0.033748
2-Apr-2025	0.097518	22.267800	34.889800	5.482470	78.179508	3.214370	0.047932	0.491775	0.081219	0.006134	0.003499	0.221588	0.001064	0.021605	0.012219	0.003419	0.034192
3-Apr-2025	0.097518	22.526100	35.294400	5.546050	79.086306	3.251650	0.048488	0.497478	0.082161	0.006205	0.003540	0.224157	0.001076	0.021856	0.012360	0.003459	0.034588
4-Apr-2025	0.097518	22.742600	35.633700	5.599370	79.846478	3.282910	0.048954	0.502261	0.082950	0.006265	0.003574	0.226312	0.001086	0.022066	0.012479	0.003492	0.034921
5-Apr-2025	0.097518	22.921100	35.913300	5.643310	80.473137	3.308670	0.049338	0.506202	0.083601	0.006314	0.003602	0.228088	0.001095	0.022239	0.012577	0.003519	0.035195
6-Apr-2025	0.097518	23.067900	36.143400	5.679460	80.988563	3.329870	0.049654	0.509446	0.084137	0.006354	0.003625	0.229549	0.001102	0.022382	0.012658	0.003542	0.035420
7-Apr-2025	0.097518	23.189400	36.333600	5.709360	81.415076	3.347390	0.049916	0.512127	0.084580	0.006388	0.003644	0.230757	0.001108	0.022499	0.012724	0.003561	0.035607
8-Apr-2025	0.097517	23.290000	36.491400	5.734140	81.768319	3.361930	0.050132	0.514350	0.084947	0.006415	0.003660	0.231759	0.001113	0.022597	0.012780	0.003576	0.035761
9-Apr-2025	0.097517	23.375000	36.624500	5.755060	82.066712	3.374190	0.050315	0.516227	0.085257	0.006439	0.003673	0.232605	0.001117	0.022680	0.012826	0.003589	0.035892
10-Apr-2025	0.097517	23.443500	36.731900	5.771930	82.307227	3.384080	0.050463	0.517740	0.085507	0.006458	0.003684	0.233287	0.001120	0.022746	0.012864	0.003600	0.035997
11-Apr-2025	0.097517	23.501000	36.822000	5.786090	82.509116	3.392380	0.050587	0.519010	0.085717	0.006473	0.003693	0.233859	0.001123	0.022802	0.012895	0.003609	0.036085
12-Apr-2025	0.097517	23.549400	36.897700	5.797990	82.678975	3.399360	0.050691	0.520077	0.085893	0.006487	0.003701	0.234340	0.001125	0.022849	0.012922	0.003616	0.036160
13-Apr-2025	0.097517	23.590000	36.961400	5.808010	82.821615	3.405230	0.050778	0.520976	0.086041	0.006498	0.003707	0.234745	0.001127	0.022888	0.012944	0.003622	0.036222
14-Apr-2025	0.097517	23.624400	37.015300	5.816470	82.942350	3.410190	0.050852	0.521735	0.086167	0.006507	0.003712	0.235087	0.001129	0.022922	0.012963	0.003627	0.036275
15-Apr-2025	0.097517	23.653700	37.061200	5.823680	83.045203	3.414420	0.050915	0.522382	0.086273	0.006515	0.003717	0.235379	0.001130	0.022950	0.012979	0.003632	0.036320
16-Apr-2025	0.097517	23.678800	37.100500	5.829860	83.133327	3.418040	0.050969	0.522936	0.086365	0.006522	0.003721	0.235629	0.001131	0.022974	0.012993	0.003636	0.036358
17-Apr-2025	0.097517	23.700400	37.134300	5.835180	83.209170	3.421160	0.051016	0.523413	0.086444	0.006528	0.003724	0.235844	0.001132	0.022995	0.013005	0.003639	0.036391
18-Apr-2025	0.097517	23.719100	37.163600	5.839790	83.274848	3.423860	0.051056	0.523826	0.086512	0.006533	0.003727	0.236030	0.001133	0.023013	0.013015	0.003642	0.036420
19-Apr-2025	0.097517	23.735400	37.189200	5.843810	83.332103	3.426220	0.051091	0.524187	0.086572	0.006538	0.003730	0.236192	0.001134	0.023029	0.013024	0.003645	0.036445
20-Apr-2025	0.097517	23.749800	37.211700	5.847350	83.382638	3.428290	0.051122	0.524504	0.086624	0.006542	0.003732	0.236335	0.001135	0.023043	0.013032	0.003647	0.036467
21-Apr-2025	0.097517	23.762500	37.231600	5.850480	83.427239	3.430120	0.051149	0.524785	0.086670	0.006545	0.003734	0.236462	0.001135	0.023056	0.013039	0.003649	0.036487
22-Apr-2025	0.097517	23.773800	37.249400	5.853260	83.466903	3.431760	0.051174	0.525035	0.086712	0.006549	0.003736	0.236575	0.001136	0.023067	0.013045	0.003650	0.036504
23-Apr-2025	0.097517	23.784000	37.265300	5.855770	83.502709	3.433230	0.051196	0.525260	0.086749	0.006551	0.003738	0.236676	0.001136	0.023076	0.013051	0.003652	0.036520
24-Apr-2025	0.097517	23.793300	37.279800	5.858050	83.535320	3.434560	0.051216	0.525464	0.086783	0.006554	0.003739	0.236768	0.001137	0.023085	0.013056	0.003653	0.036534
25-Apr-2025	0.097516	23.801700	37.293100	5.860140	83.564901	3.435780	0.051234	0.525651	0.086814	0.006556	0.003740	0.236853	0.001137	0.023094	0.013060	0.003655	0.036547
26-Apr-2025	0.097516	23.809500	37.305300	5.862060	83.592285	3.436910	0.051251	0.525823	0.086842	0.006558	0.003742	0.236930	0.001137	0.023101	0.013065	0.003656	0.036559
27-Apr-2025	0.097516	23.816800	37.316700	5.863850	83.617884	3.437960	0.051266	0.525984	0.086868	0.006560	0.003743	0.237003	0.001138	0.023108	0.013069	0.003657	0.036570
28-Apr-2025	0.097516	23.823600	37.327300	5.865520	83.641741	3.438940	0.051281	0.526134	0.086893	0.006562	0.003744	0.237071	0.001138	0.023115	0.013072	0.003658	0.036581
29-Apr-2025	0.097516	23.830000	37.337400	5.867100	83.664228	3.439860	0.051295	0.526276	0.086917	0.006564	0.003745	0.237135	0.001138	0.023121	0.013076	0.003659	0.036590
30-Apr-2025	0.097530	23.836100	37.346900	5.868610	83.685678	3.440740	0.051308	0.526411	0.086939	0.006566	0.003746	0.237195	0.001139	0.023127	0.013079	0.003660	0.036600

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
1-May-2025	0.098042	23.842700	37.357200	5.870220	83.708788	3.441690	0.051322	0.526556	0.086963	0.006568	0.003747	0.237261	0.001139	0.023133	0.013083	0.003661	0.036610
2-May-2025	0.101120	23.835400	37.345900	5.868450	83.683271	3.440650	0.051307	0.526396	0.086937	0.006566	0.003746	0.237189	0.001139	0.023126	0.013079	0.003660	0.036599
3-May-2025	0.104399	23.740200	37.196600	5.845000	83.348989	3.426900	0.051102	0.524293	0.086589	0.006539	0.003731	0.236243	0.001134	0.023034	0.013027	0.003645	0.036453
4-May-2025	0.107598	23.542600	36.887000	5.796370	82.655324	3.398370	0.050676	0.519930	0.085869	0.006485	0.003700	0.234278	0.001125	0.022842	0.012918	0.003615	0.036149
5-May-2025	0.111237	23.220000	36.381500	5.716960	81.522781	3.351800	0.049982	0.512807	0.084693	0.006396	0.003649	0.231070	0.001109	0.022529	0.012741	0.003565	0.035654
6-May-2025	0.114637	23.059200	36.129400	5.677380	80.958273	3.328560	0.049636	0.509256	0.084106	0.006352	0.003624	0.229473	0.001102	0.022373	0.012653	0.003541	0.035407
7-May-2025	0.118379	22.662500	35.507900	5.579720	79.565549	3.271310	0.048782	0.500496	0.082659	0.006243	0.003561	0.225525	0.001083	0.021989	0.012435	0.003480	0.034798
8-May-2025	0.122011	22.236700	34.840800	5.474870	78.070555	3.209850	0.047865	0.491091	0.081106	0.006125	0.003494	0.221285	0.001062	0.021575	0.012202	0.003414	0.034144
9-May-2025	0.129017	21.801300	34.158600	5.367630	76.541746	3.147010	0.046928	0.481473	0.079517	0.006005	0.003426	0.216948	0.001041	0.021153	0.011963	0.003348	0.033475
10-May-2025	0.134193	21.365700	33.476400	5.260360	75.012315	3.084150	0.045990	0.471852	0.077928	0.005885	0.003357	0.212609	0.001021	0.020730	0.011724	0.003281	0.032807
11-May-2025	0.138509	20.954300	32.831800	5.159040	73.567814	3.024780	0.045105	0.462765	0.076427	0.005772	0.003293	0.208512	0.001001	0.020331	0.011498	0.003217	0.032175
12-May-2025	0.141915	20.525200	32.159500	5.053340	72.061079	2.962840	0.044181	0.453286	0.074861	0.005654	0.003225	0.204237	0.000981	0.019914	0.011263	0.003152	0.031516
13-May-2025	0.146484	19.694500	30.858500	4.848680	69.144031	2.843000	0.042392	0.434934	0.071829	0.005425	0.003095	0.195952	0.000941	0.019108	0.010807	0.003024	0.030241
14-May-2025	0.150167	19.240200	30.146900	4.736780	67.548839	2.777440	0.041414	0.424898	0.070171	0.005299	0.003023	0.191425	0.000919	0.018667	0.010558	0.002954	0.029543
15-May-2025	0.155534	18.805200	29.465500	4.629640	66.021442	2.714670	0.040478	0.415289	0.068584	0.005180	0.002955	0.187090	0.000898	0.018245	0.010319	0.002888	0.028875
16-May-2025	0.178110	18.380800	28.800700	4.525080	64.531137	2.653430	0.039564	0.405912	0.067035	0.005063	0.002888	0.182859	0.000878	0.017833	0.010086	0.002822	0.028224
17-May-2025	0.181555	18.001200	28.206100	4.431570	63.198202	2.598650	0.038746	0.397527	0.065650	0.004958	0.002828	0.179075	0.000860	0.017464	0.009878	0.002764	0.027641
18-May-2025	0.183962	17.646700	27.650900	4.344250	61.953431	2.547510	0.037983	0.389696	0.064356	0.004860	0.002772	0.175541	0.000843	0.017120	0.009683	0.002710	0.027097
19-May-2025	0.190132	16.761800	26.264300	4.126380	58.846647	2.419760	0.036078	0.370152	0.061129	0.004617	0.002633	0.166736	0.000801	0.016262	0.009198	0.002574	0.025738
20-May-2025	0.202505	15.858700	24.849200	3.904060	55.676093	2.289390	0.034135	0.350209	0.057835	0.004368	0.002492	0.157753	0.000758	0.015386	0.008702	0.002435	0.024351
21-May-2025	0.218742	14.493400	22.713200	3.566900	50.878514	2.092670	0.031190	0.319992	0.052841	0.003991	0.002276	0.144033	0.000693	0.014058	0.007953	0.002226	0.022255
22-May-2025	0.241194	14.302900	22.414400	3.520090	50.210072	2.065100	0.030780	0.315777	0.052150	0.003938	0.002246	0.142145	0.000683	0.013874	0.007849	0.002196	0.021962
23-May-2025	0.252168	13.955900	21.869200	3.435070	48.993501	2.014690	0.030029	0.308075	0.050899	0.003842	0.002192	0.138722	0.000667	0.013539	0.007658	0.002143	0.021428
24-May-2025	0.267318	13.666500	21.415600	3.363900	47.977791	1.972870	0.029406	0.301681	0.049846	0.003762	0.002147	0.135850	0.000653	0.013258	0.007499	0.002098	0.020984
25-May-2025	0.286720	13.393600	20.987900	3.296730	47.019753	1.933470	0.028819	0.295656	0.048851	0.003687	0.002104	0.133138	0.000640	0.012994	0.007350	0.002056	0.020565
26-May-2025	0.302350	13.208500	20.697600	3.251240	46.370231	1.906700	0.028420	0.291564	0.048179	0.003636	0.002075	0.131303	0.000631	0.012814	0.007248	0.002028	0.020280
27-May-2025	0.316269	13.042700	20.437400	3.210540	45.788626	1.882660	0.028062	0.287889	0.047578	0.003590	0.002049	0.129662	0.000623	0.012654	0.007157	0.002003	0.020025
28-May-2025	0.334025	12.893900	20.204000	3.173980	45.266518	1.861130	0.027741	0.284598	0.047038	0.003549	0.002026	0.128187	0.000616	0.012510	0.007075	0.001980	0.019797
29-May-2025	0.349485	13.132700	20.579900	3.232330	46.103087	1.895990	0.028260	0.289928	0.047892	0.003616	0.002063	0.130535	0.000627	0.012740	0.007207	0.002016	0.020165
30-May-2025	0.367308	14.120100	22.127500	3.475260	49.569010	2.038610	0.030385	0.311730	0.051490	0.003888	0.002217	0.140339	0.000675	0.013697	0.007749	0.002168	0.021681
31-May-2025	0.387834	12.805800	20.067300	3.151950	44.955813	1.848740	0.027556	0.282704	0.046702	0.003526	0.002011	0.127291	0.000612	0.012423	0.007027	0.001966	0.019663
1-Jun-2025	0.414950	12.492900	19.576900	3.074960	43.857457	1.803550	0.026883	0.275796	0.045562	0.003439	0.001962	0.124184	0.000597	0.012120	0.006855	0.001918	0.019182
2-Jun-2025	0.449591	12.195600	19.106700	3.003000	42.818767	1.759670	0.026232	0.269112	0.044522	0.003356	0.001918	0.121317	0.000582	0.011836	0.006692	0.001872	0.018722
3-Jun-2025	0.547017	11.838400	18.542300	2.916440	41.570385	1.707260	0.025463	0.261240	0.043352	0.003256	0.001868	0.117858	0.000565	0.011496	0.006495	0.001818	0.018180
4-Jun-2025	0.744385	11.478900	17.958100	2.834060	40.333472	1.651290	0.024671	0.253140	0.042303	0.003151	0.001823	0.114710	0.000547	0.011173	0.006294	0.001764	0.017639
5-Jun-2025	0.876809	11.214000	17.528200	2.773150	39.421190	1.610160	0.024087	0.247171	0.041485	0.003073	0.001788	0.112378	0.000533	0.010934	0.006147	0.001724	0.017240
6-Jun-2025	0.967265	10.936700	17.084300	2.711970	38.476832	1.568370	0.023482	0.240974	0.040840	0.002994	0.001758	0.110168	0.000520	0.010696	0.005993	0.001682	0.016815
7-Jun-2025	1.008952	10.726100	16.721400	2.665240	37.758530	1.531400	0.022984	0.235867	0.040321	0.002926	0.001734	0.108391	0.000508	0.010513	0.005873	0.001649	0.016495
8-Jun-2025	1.076339	10.466100	16.301800	2.604720	36.860089	1.491520	0.022413	0.230020	0.039778	0.002851	0.001710	0.106202	0.000495	0.010276	0.005728	0.001610	0.016098
9-Jun-2025	1.209679	10.205200	15.845600	2.554160	36.000415	1.444200	0.021782	0.223495	0.039412	0.002764	0.001689	0.104533	0.000480	0.010082	0.005578	0.001570	0.015698
10-Jun-2025	1.395912	9.976670	15.466100	2.504060	35.223464	1.407010	0.021268	0.218221	0.039189	0.002694	0.001667	0.102781	0.000468	0.009887	0.005449	0.001535	0.015352
11-Jun-2025	1.631740	9.779140	15.130100	2.463000	34.561147	1.373660	0.020829	0.213695	0.038880	0.002633	0.001648	0.101254	0.000457	0.009729	0.005337	0.001506	0.015057
12-Jun-2025	1.862254	9.672680	14.949800	2.440600	34.203073	1.356070	0.020602	0.211361	0.038672	0.002600	0.001635	0.100466	0.000451	0.009643	0.005276	0.001490	0.014901
13-Jun-2025	2.024642	9.536210	14.716900	2.412360	33.746015	1.332870	0.020297	0.208160	0.038615	0.002558	0.001622	0.099532	0.000444	0.009535	0.005199	0.001470	0.014697
14-Jun-2025	2.132870	9.399610	14.482100	2.384500	33.290197	1.309510	0.019998	0.205050	0.038239	0.002515	0.001611	0.098651	0.000436	0.009429	0.005121	0.001450	0.014496
15-Jun-2025	2.242904	9.186040	14.112500	2.341550	32.580045	1.272280	0.019517	0.200052	0.038019	0.002448	0.001599	0.097370	0.000424	0.009266	0.004999	0.001418	0.014177
16-Jun-2025	2.314902	9.025970	13.832100	2.310110	32.050880	1.243930	0.019161	0.196351	0.038045	0.002398	0.001586	0.096446	0.000415	0.009148	0.004907	0.001394	0.013939
17-Jun-2025	2.328282	8.893530	13.599300	2.284200	31.613480	1.220440	0.018870	0.193320	0.038151	0.002357	0.001578	0.095751	0.000407	0.009052	0.004831	0.001374	0.013742
18-Jun-2025	2.331702	8.723710	13.303400	2.250260	31.049675	1.190770	0.018497	0.189458	0.038104	0.002305	0.001566	0.094796	0.000398	0.008926	0.004734	0.001349	0.013488
19-Jun-2025	2.327853	8.588950	13.064600	2.224410	30.606729	1.166700	0.018209	0.186490	0.038009	0.002263	0.001559	0.094148	0.000390	0.008831	0.004657	0.001329	0.013290
20-Jun-2025	2.314944	8.441000	12.805800	2.194920	30.115858	1.140800	0.017887	0.183143	0.037831	0.002219	0.001549	0.093730	0.000382	0.008722	0.004572	0.001307	0.013068
21-Jun-2025	2.315293	8.308030	12.574400	2.168090	29.673346	1.117810	0.017602	0.180199	0.037731	0.002179	0.001539	0.094011	0.000374	0.008623	0.004497	0.001287	0.012870
22-Jun-2025	2.335187	8.135430	12.275200	2.132620	29.096298	1.088210	0.017229	0.176279	0.037606	0.002130	0.001526	0.094569	0.000364	0.008492	0.004399	0.001261	0.012609

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
23-Jun-2025	2.397252	8.019820	12.072600	2.109640	28.712988	1.068060	0.016985	0.173752	0.037552	0.002095	0.001518	0.095231	0.000358	0.008408	0.004333	0.001244	0.012437
24-Jun-2025	2.520981	7.919140	11.892300	2.090800	28.384007	1.049950	0.016779	0.171633	0.037476	0.002064	0.001514	0.097287	0.000352	0.008340	0.004275	0.001229	0.012292
25-Jun-2025	2.704356	7.783740	11.656100	2.063390	27.933039	1.026510	0.016488	0.168600	0.037321	0.002025	0.001504	0.098924	0.000344	0.008240	0.004198	0.001209	0.012088
26-Jun-2025	2.979294	7.622490	11.375600	2.030570	27.395245	0.998661	0.016139	0.164964	0.037082	0.001978	0.001492	0.096810	0.000335	0.008119	0.004107	0.001184	0.011844
27-Jun-2025	3.337018	7.484070	11.132900	2.003030	26.936200	0.974490	0.015845	0.161917	0.036863	0.001937	0.001483	0.095643	0.000327	0.008019	0.004028	0.001164	0.011637
28-Jun-2025	3.691773	7.373740	10.935900	1.982140	26.574681	0.954720	0.015617	0.159563	0.036647	0.001903	0.001477	0.096386	0.000321	0.007943	0.003965	0.001148	0.011476
29-Jun-2025	4.032741	7.265110	10.742000	1.961620	26.218931	0.935232	0.015391	0.157235	0.036436	0.001870	0.001472	0.097195	0.000314	0.007869	0.003902	0.001132	0.011318
30-Jun-2025	4.399574	7.134850	10.511500	1.936490	25.790186	0.912077	0.015115	0.154398	0.036308	0.001829	0.001465	0.097263	0.000307	0.007776	0.003828	0.001113	0.011127
1-Jul-2025	5.616517	6.067650	8.646510	1.724870	22.253937	0.726238	0.013237	0.136815	0.035096	0.001610	0.001415	0.094509	0.000246	0.007080	0.003218	0.000954	0.009540
2-Jul-2025	6.545947	5.797020	8.165390	1.670500	21.354278	0.680371	0.012606	0.131096	0.034530	0.001559	0.001389	0.094855	0.000231	0.006852	0.003070	0.000914	0.009143
3-Jul-2025	7.282919	5.856240	8.247040	1.680440	21.543083	0.691922	0.012941	0.134410	0.034298	0.001593	0.001392	0.092251	0.000233	0.006988	0.003106	0.000922	0.009224
4-Jul-2025	7.198536	5.938380	8.396660	1.691840	21.795132	0.708185	0.013065	0.135449	0.033965	0.001602	0.001389	0.088575	0.000238	0.007043	0.003159	0.000934	0.009342
5-Jul-2025	7.314303	6.048750	8.608900	1.708620	22.139826	0.728463	0.012932	0.132641	0.033557	0.001556	0.001382	0.086161	0.000246	0.007011	0.003223	0.000951	0.009511
6-Jul-2025	7.452771	6.149200	8.792770	1.723980	22.453902	0.747206	0.013122	0.134559	0.033471	0.001589	0.001380	0.085012	0.000252	0.007084	0.003284	0.000966	0.009661
7-Jul-2025	7.734667	6.168230	8.830120	1.727070	22.514145	0.750996	0.013153	0.134885	0.033411	0.001595	0.001379	0.084041	0.000253	0.007090	0.003295	0.000969	0.009687
8-Jul-2025	9.030056	6.279460	9.033710	1.744130	22.862139	0.771355	0.013353	0.136877	0.033557	0.001629	0.001381	0.083810	0.000260	0.007172	0.003362	0.000986	0.009856
9-Jul-2025	9.889654	6.337120	9.142870	1.754890	23.050426	0.781783	0.013439	0.137744	0.033505	0.001645	0.001382	0.083702	0.000264	0.007199	0.003394	0.000994	0.009942
10-Jul-2025	9.990137	6.467650	9.382260	1.775340	23.460572	0.805573	0.013667	0.139996	0.033635	0.001684	0.001385	0.084266	0.000272	0.007291	0.003472	0.001014	0.010138
11-Jul-2025	10.885013	6.404450	9.271260	1.768130	23.273071	0.793752	0.013528	0.138608	0.033393	0.001662	0.001383	0.084241	0.000268	0.007225	0.003431	0.001004	0.010041
12-Jul-2025	11.294925	6.345100	9.159830	1.757890	23.082706	0.782793	0.013426	0.137566	0.033415	0.001645	0.001384	0.084857	0.000264	0.007191	0.003396	0.000995	0.009949
13-Jul-2025	12.215163	6.478210	9.404460	1.779530	23.504195	0.807042	0.013660	0.139920	0.033500	0.001685	0.001385	0.085872	0.000272	0.007282	0.003476	0.001015	0.010151
14-Jul-2025	13.026982	6.605620	9.641070	1.802220	23.915775	0.830049	0.013870	0.142039	0.033507	0.001722	0.001388	0.086516	0.000280	0.007356	0.003549	0.001034	0.010343
15-Jul-2025	13.583370	6.564630	9.563740	1.794150	23.780191	0.822649	0.013805	0.141369	0.033533	0.001711	0.001387	0.085911	0.000278	0.007338	0.003526	0.001028	0.010281
16-Jul-2025	14.381118	6.639380	9.700230	1.807110	24.020211	0.836132	0.013938	0.142712	0.033602	0.001734	0.001389	0.085635	0.000282	0.007387	0.003570	0.001039	0.010394
17-Jul-2025	15.047636	6.831150	10.053900	1.839950	24.634296	0.870906	0.014269	0.146035	0.033759	0.001790	0.001394	0.085463	0.000294	0.007510	0.003682	0.001068	0.010683
18-Jul-2025	15.686783	6.755440	9.911580	1.827470	24.393855	0.856973	0.014144	0.144779	0.033656	0.001770	0.001393	0.086082	0.000289	0.007464	0.003638	0.001057	0.010567
19-Jul-2025	15.810647	6.881090	10.140500	1.848120	24.792640	0.879800	0.014370	0.147045	0.033790	0.001809	0.001396	0.086538	0.000297	0.007551	0.003712	0.001075	0.010754
20-Jul-2025	16.768146	6.776450	9.948510	1.832010	24.465013	0.860559	0.014180	0.145133	0.033620	0.001778	0.001394	0.087001	0.000290	0.007475	0.003649	0.001059	0.010594
21-Jul-2025	16.300974	7.019980	10.390800	1.870990	25.233627	0.904897	0.014628	0.149602	0.033917	0.001855	0.001400	0.086823	0.000305	0.007653	0.003795	0.001096	0.010960
22-Jul-2025	16.398067	7.061480	10.467700	1.878140	25.366696	0.912390	0.014698	0.150310	0.033940	0.001867	0.001401	0.087171	0.000308	0.007679	0.003819	0.001102	0.011024
23-Jul-2025	17.192547	7.134220	10.606800	1.893410	25.611210	0.925329	0.014800	0.151360	0.033834	0.001885	0.001403	0.085980	0.000312	0.007705	0.003858	0.001113	0.011134
24-Jul-2025	17.695943	7.227880	10.776200	1.906910	25.900672	0.942333	0.014969	0.153035	0.033997	0.001913	0.001405	0.086132	0.000318	0.007781	0.003916	0.001128	0.011275
25-Jul-2025	17.786822	7.027610	10.408400	1.875890	25.272857	0.905595	0.014609	0.149425	0.033737	0.001854	0.001401	0.086415	0.000306	0.007636	0.003795	0.001097	0.010970
26-Jul-2025	17.706174	7.149200	10.630300	1.895150	25.655780	0.927772	0.014828	0.151602	0.033866	0.001892	0.001404	0.087207	0.000313	0.007724	0.003868	0.001115	0.011152
27-Jul-2025	17.841454	7.342930	10.984800	1.925640	26.265082	0.963092	0.015174	0.155067	0.034102	0.001950	0.001408	0.087390	0.000325	0.007863	0.003985	0.001145	0.011446
28-Jul-2025	17.930511	7.525790	11.319300	1.954920	26.842258	0.996390	0.015500	0.158332	0.034300	0.002005	0.001412	0.087185	0.000336	0.007993	0.004094	0.001172	0.011722
29-Jul-2025	18.712236	7.381370	11.060900	1.937530	26.410029	0.969536	0.015213	0.155495	0.033930	0.001958	0.001410	0.087158	0.000328	0.007857	0.004001	0.001150	0.011503
30-Jul-2025	18.767433	7.497400	11.269000	1.953140	26.764038	0.990771	0.015432	0.157648	0.034138	0.001996	0.001412	0.087797	0.000335	0.007958	0.004074	0.001168	0.011677
31-Jul-2025	18.599967	7.303910	10.912800	1.924350	26.162337	0.955068	0.015083	0.154108	0.033836	0.001939	0.001409	0.088172	0.000323	0.007814	0.003956	0.001138	0.011379
1-Aug-2025	18.563774	7.414460	11.115100	1.942070	26.511351	0.975168	0.015279	0.156073	0.033959	0.001973	0.001411	0.088422	0.000329	0.007892	0.004022	0.001155	0.011547
2-Aug-2025	17.068001	7.355530	11.007800	1.934930	26.334800	0.963686	0.015144	0.154680	0.033781	0.001955	0.001411	0.088749	0.000326	0.007839	0.003984	0.001145	0.011455
3-Aug-2025	15.577654	7.375980	11.044900	1.939940	26.406495	0.966806	0.015159	0.154803	0.033750	0.001962	0.001412	0.089064	0.000327	0.007847	0.003995	0.001148	0.011483
4-Aug-2025	14.957359	7.413190	11.113400	1.946750	26.527452	0.973195	0.015209	0.155284	0.033749	0.001973	0.001413	0.089476	0.000329	0.007869	0.004016	0.001154	0.011539
5-Aug-2025	14.741080	7.503080	11.278900	1.962100	26.815119	0.989059	0.015343	0.156588	0.033789	0.002000	0.001415	0.089758	0.000335	0.007926	0.004068	0.001167	0.011675
6-Aug-2025	15.140905	7.448170	11.177000	1.954890	26.648318	0.978640	0.015239	0.155554	0.033693	0.001984	0.001415	0.090169	0.000331	0.007884	0.004034	0.001159	0.011589
7-Aug-2025	15.175980	7.737660	11.710500	2.001740	27.564102	1.030620	0.015703	0.160113	0.033940	0.002068	0.001421	0.088172	0.000349	0.008080	0.004206	0.001203	0.012029
8-Aug-2025	15.487741	7.779610	11.788100	2.009740	27.701795	1.037710	0.015753	0.160585	0.033922	0.002080	0.001422	0.087824	0.000352	0.008102	0.004230	0.001209	0.012091
9-Aug-2025	15.795232	7.624230	11.504300	1.986720	27.219015	1.009000	0.015484	0.157937	0.033747	0.002035	0.001419	0.088210	0.000342	0.007989	0.004135	0.001186	0.011856
10-Aug-2025	16.003887	7.794590	11.815600	2.014340	27.758143	1.039610	0.015749	0.160502	0.033876	0.002085	0.001423	0.088379	0.000353	0.008103	0.004236	0.001211	0.012112
11-Aug-2025	16.287932	7.709110	11.660300	2.002460	27.495778	1.023540	0.015588	0.158900	0.033733	0.002059	0.001422	0.088561	0.000348	0.008037	0.004183	0.001198	0.011982
12-Aug-2025	15.491824	7.882390	11.973800	2.029590	28.040179	1.054990	0.015889	0.161874	0.033898	0.002115	0.001426	0.088812	0.000358	0.008163	0.004288	0.001224	0.012240
13-Aug-2025	14.741196	7.921880	12.046500	2.037180	28.170042	1.061670	0.015937	0.162323	0.033881	0.002127	0.001427	0.088599	0.000361	0.008185	0.004310	0.001230	0.012298
14-Aug-2025	14.846457	7.968960	12.132500	2.045730	28.322809	1.069790	0.016003	0.162955	0.033889	0.002142	0.001428	0.089791	0.000363	0.008213	0.004337	0.001237	0.012368

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
15-Aug-2025	14.348829	7.974140	12.142000	2.048080	28.345421	1.070130	0.015990	0.162798	0.033828	0.002143	0.001429	0.088635	0.000364	0.008211	0.004339	0.001237	0.012374
16-Aug-2025	13.806078	7.899080	12.004500	2.038000	28.116487	1.055840	0.015834	0.161209	0.033646	0.002121	0.001428	0.088783	0.000359	0.008148	0.004291	0.001226	0.012257
17-Aug-2025	13.029234	7.904970	12.015200	2.040370	28.140954	1.056330	0.015822	0.161055	0.033582	0.002123	0.001429	0.089123	0.000359	0.008146	0.004293	0.001226	0.012263
18-Aug-2025	12.870014	8.039550	12.260900	2.062120	28.566567	1.080440	0.016045	0.163253	0.033718	0.002164	0.001432	0.089642	0.000368	0.008241	0.004374	0.001247	0.012465
19-Aug-2025	12.483521	8.025370	12.235700	2.061990	28.530624	1.077080	0.015986	0.162615	0.033601	0.002161	0.001432	0.089300	0.000367	0.008220	0.004363	0.001244	0.012442
20-Aug-2025	12.156129	8.007130	12.202300	2.060080	28.477213	1.073350	0.015938	0.162113	0.033521	0.002155	0.001432	0.089494	0.000366	0.008202	0.004351	0.001241	0.012412
21-Aug-2025	12.143092	8.086340	12.348600	2.073020	28.728287	1.087480	0.016060	0.163304	0.033575	0.002177	0.001434	0.090339	0.000371	0.008254	0.004398	0.001253	0.012531
22-Aug-2025	12.495888	8.139720	12.447000	2.083330	28.904034	1.096370	0.016117	0.163803	0.033551	0.002194	0.001435	0.091653	0.000374	0.008282	0.004427	0.001261	0.012609
23-Aug-2025	12.963246	8.047970	12.279100	2.068920	28.615594	1.079730	0.015958	0.162236	0.033422	0.002165	0.001433	0.091331	0.000368	0.008216	0.004372	0.001247	0.012469
24-Aug-2025	13.249197	8.551380	13.198500	2.151070	30.210902	1.169700	0.016789	0.170405	0.033949	0.002326	0.001445	0.091594	0.000399	0.008573	0.004672	0.001323	0.013225
25-Aug-2025	13.239421	8.232790	12.614400	2.102460	29.215207	1.111460	0.016219	0.164734	0.033499	0.002227	0.001439	0.090577	0.000380	0.008335	0.004479	0.001274	0.012745
26-Aug-2025	12.691941	8.323390	12.780000	2.117590	29.503740	1.127470	0.016361	0.166127	0.033581	0.002254	0.001441	0.090407	0.000385	0.008397	0.004533	0.001288	0.012881
27-Aug-2025	12.224693	8.269590	12.681400	2.110020	29.338229	1.117310	0.016251	0.164998	0.033454	0.002238	0.001440	0.090586	0.000382	0.008353	0.004499	0.001280	0.012797
28-Aug-2025	11.648699	8.347690	12.825700	2.123310	29.587973	1.131080	0.016365	0.166106	0.033497	0.002261	0.001442	0.090347	0.000387	0.008403	0.004545	0.001292	0.012915
29-Aug-2025	10.988116	8.320400	12.776100	2.119620	29.504634	1.125820	0.016305	0.165487	0.033415	0.002252	0.001442	0.090046	0.000385	0.008379	0.004528	0.001287	0.012872
30-Aug-2025	11.017941	8.267980	12.682200	2.114040	29.350763	1.115550	0.016180	0.164226	0.033312	0.002234	0.001441	0.090047	0.000382	0.008330	0.004494	0.001279	0.012794
31-Aug-2025	10.839428	8.899290	13.835400	2.210550	31.324572	1.230660	0.017300	0.175355	0.034131	0.002427	0.001454	0.091469	0.000420	0.008797	0.004876	0.001375	0.013749
1-Sep-2025	10.585495	8.415850	12.952400	2.137790	29.817797	1.141800	0.016410	0.166438	0.033383	0.002279	0.001445	0.091092	0.000391	0.008431	0.004581	0.001301	0.013014
2-Sep-2025	10.607715	8.461400	13.036000	2.145210	29.962091	1.149950	0.016482	0.167139	0.033418	0.002294	0.001446	0.090297	0.000394	0.008462	0.004609	0.001308	0.013082
3-Sep-2025	11.030239	8.675830	13.438000	2.177870	30.632016	1.189840	0.016835	0.170633	0.033556	0.002358	0.001447	0.090584	0.000407	0.008601	0.004737	0.001341	0.013406
4-Sep-2025	10.735922	8.670690	13.427600	2.176530	30.613663	1.189020	0.016835	0.170643	0.033546	0.002357	0.001446	0.090543	0.000407	0.008600	0.004735	0.001340	0.013397
5-Sep-2025	11.104922	8.678400	13.441700	2.177420	30.636580	1.190480	0.016847	0.170745	0.033527	0.002360	0.001446	0.090597	0.000407	0.008606	0.004740	0.001341	0.013405
6-Sep-2025	10.774184	8.612690	13.321900	2.167240	30.430581	1.178510	0.016725	0.169512	0.033415	0.002342	0.001444	0.090602	0.000403	0.008556	0.004700	0.001330	0.013304
7-Sep-2025	10.686247	8.593110	13.288600	2.164120	30.368842	1.175100	0.016678	0.169022	0.033325	0.002337	0.001443	0.091535	0.000402	0.008536	0.004688	0.001327	0.013272
8-Sep-2025	10.202544	8.571130	13.249200	2.160920	30.300780	1.171080	0.016625	0.168473	0.033254	0.002335	0.001442	0.091571	0.000401	0.008515	0.004675	0.001324	0.013235
9-Sep-2025	10.202632	8.692060	13.470300	2.179190	30.677978	1.193260	0.016842	0.170637	0.033380	0.002372	0.001443	0.091853	0.000408	0.008605	0.004748	0.001342	0.013418
10-Sep-2025	10.477445	8.667900	13.428200	2.175340	30.601796	1.188980	0.016797	0.170188	0.033338	0.002362	0.001443	0.092027	0.000407	0.008585	0.004733	0.001338	0.013383
11-Sep-2025	10.198963	8.844380	13.755900	2.201890	31.151800	1.221770	0.017100	0.173212	0.033496	0.002417	0.001444	0.090957	0.000418	0.008706	0.004840	0.001365	0.013648
12-Sep-2025	9.658922	8.857160	13.779800	2.203920	31.192071	1.224130	0.017116	0.173349	0.033471	0.002423	0.001443	0.091037	0.000419	0.008713	0.004848	0.001367	0.013666
13-Sep-2025	9.743697	8.849980	13.770000	2.202630	31.168830	1.223010	0.017091	0.173074	0.033397	0.002421	0.001442	0.091213	0.000419	0.008701	0.004843	0.001365	0.013653
14-Sep-2025	9.562661	8.771470	13.626100	2.190680	30.923581	1.208590	0.016945	0.171607	0.033268	0.002398	0.001440	0.091335	0.000414	0.008643	0.004796	0.001353	0.013532
15-Sep-2025	8.253852	8.844060	13.761900	2.201650	31.150013	1.222140	0.017065	0.172790	0.033301	0.002421	0.001440	0.091459	0.000418	0.008690	0.004840	0.001364	0.013641
16-Sep-2025	7.934474	8.856420	13.785300	2.203450	31.188288	1.224440	0.017084	0.172973	0.033302	0.002425	0.001440	0.091401	0.000419	0.008698	0.004847	0.001366	0.013659
17-Sep-2025	7.694209	9.295160	14.586700	2.270040	32.558039	1.304830	0.017875	0.180863	0.033905	0.002561	0.001448	0.092212	0.000446	0.009025	0.005114	0.001432	0.014321
18-Sep-2025	7.214197	9.050620	14.145700	2.232430	31.792545	1.260570	0.017417	0.176264	0.033459	0.002487	0.001441	0.091397	0.000431	0.008832	0.004965	0.001395	0.013950
19-Sep-2025	6.827276	9.146070	14.321000	2.246840	32.090224	1.278130	0.017585	0.177933	0.033572	0.002517	0.001443	0.091661	0.000437	0.008901	0.005023	0.001409	0.014093
20-Sep-2025	6.436768	9.133750	14.299300	2.244720	32.050731	1.276000	0.017563	0.177713	0.033547	0.002513	0.001442	0.091589	0.000437	0.008891	0.005016	0.001408	0.014075
21-Sep-2025	6.072480	9.101850	14.255200	2.239040	31.947686	1.271340	0.017469	0.176759	0.033392	0.002502	0.001440	0.091368	0.000435	0.008842	0.004995	0.001403	0.014027
22-Sep-2025	5.896984	9.177320	14.383500	2.251050	32.185592	1.284260	0.017623	0.178276	0.033509	0.002527	0.001441	0.092036	0.000439	0.008914	0.005042	0.001414	0.014138
23-Sep-2025	5.878924	9.500940	14.976600	2.300160	33.195906	1.343610	0.018203	0.184083	0.033945	0.002623	0.001447	0.092392	0.000459	0.009153	0.005238	0.001463	0.014628
24-Sep-2025	5.579813	9.190060	14.411900	2.252510	32.223416	1.286980	0.017632	0.178357	0.033449	0.002529	0.001439	0.091626	0.000440	0.008915	0.005049	0.001416	0.014157
25-Sep-2025	4.794164	9.265890	14.555500	2.263750	32.459050	1.301350	0.017751	0.179508	0.033440	0.002555	0.001439	0.092060	0.000445	0.008961	0.005095	0.001427	0.014268
26-Sep-2025	4.226550	9.386140	14.776300	2.282090	32.834838	1.323460	0.017965	0.181647	0.033587	0.002592	0.001440	0.091919	0.000453	0.009048	0.005168	0.001445	0.014450
27-Sep-2025	3.786883	9.443430	14.885100	2.290690	33.013306	1.334300	0.018059	0.182582	0.033607	0.002609	0.001440	0.091958	0.000456	0.009083	0.005202	0.001454	0.014537
28-Sep-2025	3.716551	9.484500	14.958100	2.296800	33.141019	1.341640	0.018137	0.183352	0.033689	0.002622	0.001441	0.092130	0.000459	0.009118	0.005228	0.001460	0.014598
29-Sep-2025	3.391937	9.469050	14.934200	2.294000	33.090910	1.339220	0.018099	0.182969	0.033609	0.002617	0.001440	0.091955	0.000458	0.009099	0.005218	0.001457	0.014574
30-Sep-2025	3.413961	9.367760	14.757200	2.278040	32.772265	1.321350	0.017892	0.180852	0.033410	0.002586	0.001437	0.091642	0.000452	0.009010	0.005156	0.001442	0.014419
1-Oct-2025	3.346722	9.577580	15.141200	2.309700	33.426562	1.359890	0.018270	0.184632	0.033620	0.002650	0.001438	0.092039	0.000465	0.009164	0.005284	0.001474	0.014736
2-Oct-2025	3.494728	9.505740	15.011500	2.298430	33.200768	1.346960	0.018138	0.183296	0.033490	0.002629	0.001436	0.091826	0.000461	0.009108	0.005240	0.001463	0.014627
3-Oct-2025	3.149699	9.384900	14.786300	2.280060	32.823382	1.324520	0.017930	0.181224	0.033368	0.002594	0.001435	0.091838	0.000453	0.009026	0.005167	0.001444	0.014442
4-Oct-2025	2.909363	9.353600	14.729400	2.275110	32.724842	1.318890	0.017874	0.180666	0.033321	0.002585	0.001434	0.092079	0.000451	0.009003	0.005149	0.001439	0.014395
5-Oct-2025	2.735519	9.338830	14.702600	2.272670	32.677914	1.316270	0.017847	0.180397	0.033299	0.002581	0.001434	0.091735	0.000450	0.008992	0.005140	0.001437	0.014372
6-Oct-2025	2.751014	9.319900	14.668900	2.269370	32.617056	1.313010	0.017815	0.180083	0.033282	0.002575	0.001433	0.091848	0.000449	0.008977	0.005129	0.001434	0.014343

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
7-Oct-2025	2.567158	9.305570	14.642400	2.267210	32.572379	1.310420	0.017793	0.179865	0.033261	0.002571	0.001432	0.091966	0.000448	0.008968	0.005120	0.001432	0.014322
8-Oct-2025	2.271284	9.281520	14.598800	2.263110	32.495442	1.306180	0.017751	0.179444	0.033230	0.002565	0.001432	0.091697	0.000447	0.008950	0.005106	0.001428	0.014285
9-Oct-2025	2.083724	9.262870	14.564500	2.260140	32.436643	1.302840	0.017721	0.179145	0.033198	0.002559	0.001431	0.091555	0.000446	0.008937	0.005095	0.001426	0.014257
10-Oct-2025	1.861717	9.222550	14.490500	2.253750	32.309650	1.295600	0.017654	0.178484	0.033160	0.002548	0.001430	0.091523	0.000443	0.008908	0.005071	0.001420	0.014196
11-Oct-2025	1.981368	9.195980	14.441500	2.249560	32.226050	1.290820	0.017613	0.178076	0.033145	0.002540	0.001430	0.091444	0.000442	0.008890	0.005055	0.001416	0.014156
12-Oct-2025	1.679538	9.187950	14.428100	2.247840	32.198916	1.289570	0.017599	0.177939	0.033120	0.002537	0.001429	0.091495	0.000441	0.008883	0.005050	0.001414	0.014144
13-Oct-2025	1.175781	9.159780	14.376400	2.243410	32.110333	1.284510	0.017552	0.177477	0.033087	0.002529	0.001428	0.091372	0.000440	0.008863	0.005033	0.001410	0.014101
14-Oct-2025	0.694912	9.136490	14.333600	2.239740	32.037065	1.280320	0.017515	0.177102	0.033063	0.002522	0.001427	0.091481	0.000438	0.008847	0.005019	0.001407	0.014066
15-Oct-2025	0.263022	9.116930	14.298600	2.236340	31.974222	1.276950	0.017482	0.176775	0.033034	0.002517	0.001427	0.091200	0.000437	0.008832	0.005008	0.001404	0.014037
16-Oct-2025	0.254497	9.114690	14.294000	2.236130	31.967764	1.276480	0.017478	0.176745	0.033044	0.002516	0.001427	0.091267	0.000437	0.008831	0.005006	0.001403	0.014033
17-Oct-2025	0.256727	9.195350	14.416600	2.257210	32.255980	1.287200	0.017638	0.178365	0.033378	0.002538	0.001442	0.092224	0.000441	0.008914	0.005050	0.001416	0.014158
18-Oct-2025	0.247866	9.281230	14.550900	2.278360	32.557518	1.299170	0.017803	0.180036	0.033686	0.002561	0.001455	0.093244	0.000445	0.008997	0.005097	0.001429	0.014291
19-Oct-2025	0.245435	9.353580	14.664400	2.296080	32.811147	1.309320	0.017942	0.181435	0.033947	0.002581	0.001466	0.094222	0.000448	0.009067	0.005137	0.001440	0.014402
20-Oct-2025	0.243253	9.421750	14.772900	2.312320	33.048244	1.319090	0.018070	0.182733	0.034175	0.002600	0.001476	0.095192	0.000451	0.009132	0.005174	0.001451	0.014506
21-Oct-2025	0.243584	9.486150	14.874800	2.327830	33.272920	1.328240	0.018193	0.183972	0.034401	0.002618	0.001486	0.096098	0.000455	0.009193	0.005210	0.001461	0.014605
22-Oct-2025	0.244873	9.531230	14.945300	2.338920	33.431154	1.334540	0.018279	0.184839	0.034561	0.002631	0.001493	0.096980	0.000457	0.009237	0.005235	0.001467	0.014675
23-Oct-2025	0.249907	9.346360	14.655600	2.310530	32.852623	1.308680	0.017925	0.181258	0.034076	0.002598	0.001502	0.097687	0.000448	0.009066	0.005133	0.001439	0.014390
24-Oct-2025	0.248805	9.363350	14.682200	2.328050	32.967195	1.311040	0.017957	0.181587	0.034339	0.002617	0.001513	0.098372	0.000449	0.009136	0.005143	0.001442	0.014416
25-Oct-2025	0.246540	9.394020	14.724500	2.345840	33.117037	1.314670	0.018045	0.182485	0.034608	0.002637	0.001524	0.099060	0.000450	0.009207	0.005158	0.001446	0.014464
26-Oct-2025	0.244509	9.446010	14.765400	2.356570	33.291042	1.318440	0.018148	0.183525	0.034776	0.002649	0.001530	0.099266	0.000451	0.009254	0.005172	0.001451	0.014514
27-Oct-2025	0.242292	9.518100	14.826600	2.373480	33.540686	1.323890	0.018286	0.184923	0.035030	0.002668	0.001540	0.099882	0.000453	0.009322	0.005208	0.001463	0.014625
28-Oct-2025	0.239072	9.594080	14.927800	2.390670	33.801197	1.326820	0.018431	0.186388	0.035288	0.002687	0.001550	0.100448	0.000455	0.009392	0.005250	0.001474	0.014744
29-Oct-2025	0.238373	9.664410	15.051600	2.403700	34.030468	1.338590	0.018563	0.187719	0.035488	0.002702	0.001556	0.100598	0.000459	0.009449	0.005291	0.001486	0.014855
30-Oct-2025	0.238715	9.721750	15.156000	2.413240	34.212932	1.348680	0.018669	0.188795	0.035637	0.002712	0.001559	0.100578	0.000462	0.009493	0.005325	0.001495	0.014947
31-Oct-2025	0.238697	9.789870	15.269100	2.427990	34.443768	1.359110	0.018798	0.190101	0.035859	0.002729	0.001567	0.101001	0.000466	0.009554	0.005363	0.001505	0.015054
1-Nov-2025	0.238789	9.861020	15.382500	2.444880	34.690983	1.369330	0.018934	0.191476	0.036109	0.002748	0.001577	0.101636	0.000469	0.009621	0.005403	0.001516	0.015164
2-Nov-2025	0.238881	9.925740	15.484700	2.460540	34.917077	1.378490	0.019058	0.192728	0.036341	0.002766	0.001587	0.102254	0.000472	0.009683	0.005438	0.001526	0.015264
3-Nov-2025	0.238989	9.986110	15.580500	2.475010	35.127408	1.387110	0.019173	0.193893	0.036553	0.002782	0.001596	0.102815	0.000475	0.009741	0.005472	0.001536	0.015357
4-Nov-2025	0.238836	10.059300	15.691800	2.494030	35.388488	1.396870	0.019314	0.195318	0.036831	0.002804	0.001609	0.103688	0.000479	0.009815	0.005511	0.001547	0.015468
5-Nov-2025	0.238291	10.126800	15.792200	2.512320	35.632353	1.405540	0.019445	0.196643	0.037099	0.002824	0.001622	0.104587	0.000482	0.009884	0.005548	0.001557	0.015571
6-Nov-2025	0.237377	10.187800	15.882800	2.528840	35.852700	1.413380	0.019563	0.197836	0.037339	0.002843	0.001633	0.105400	0.000484	0.009948	0.005580	0.001566	0.015664
7-Nov-2025	0.236661	10.267900	16.005600	2.549370	36.137252	1.424190	0.019718	0.199397	0.037642	0.002866	0.001647	0.106314	0.000488	0.010027	0.005624	0.001579	0.015786
8-Nov-2025	0.236373	10.312800	16.079900	2.559210	36.289888	1.431020	0.019803	0.200259	0.037788	0.002877	0.001652	0.106608	0.000490	0.010068	0.005649	0.001586	0.015856
9-Nov-2025	0.236666	10.384900	16.197200	2.575520	36.537087	1.441730	0.019940	0.201644	0.038031	0.002895	0.001662	0.107149	0.000494	0.010134	0.005689	0.001597	0.015968
10-Nov-2025	0.236816	10.447800	16.303900	2.588500	36.747600	1.451680	0.020058	0.202844	0.038227	0.002910	0.001669	0.107457	0.000497	0.010189	0.005725	0.001607	0.016067
11-Nov-2025	0.236729	10.503800	16.400700	2.599390	36.932277	1.460800	0.020164	0.203906	0.038392	0.002922	0.001674	0.107647	0.000500	0.010236	0.005757	0.001616	0.016156
12-Nov-2025	0.236362	10.565900	16.502700	2.613150	37.144004	1.470160	0.020281	0.205099	0.038598	0.002938	0.001681	0.108076	0.000504	0.010292	0.005792	0.001625	0.016252
13-Nov-2025	0.236055	10.638100	16.617000	2.630530	37.395858	1.480420	0.020420	0.206499	0.038856	0.002957	0.001692	0.108753	0.000507	0.010361	0.005832	0.001636	0.016364
14-Nov-2025	0.235873	10.718200	16.742100	2.650320	37.677363	1.491570	0.020574	0.208056	0.039150	0.002980	0.001705	0.109570	0.000511	0.010439	0.005876	0.001649	0.016487
15-Nov-2025	0.235762	10.806600	16.880300	2.672180	37.988117	1.503880	0.020744	0.209774	0.039473	0.003004	0.001719	0.110472	0.000515	0.010526	0.005925	0.001662	0.016623
16-Nov-2025	0.235891	10.892800	17.014700	2.693570	38.291443	1.515850	0.020909	0.211449	0.039789	0.003028	0.001733	0.111362	0.000519	0.010610	0.005972	0.001676	0.016756
17-Nov-2025	0.236368	10.974000	17.140900	2.713790	38.577465	1.527070	0.021065	0.213028	0.040089	0.003051	0.001746	0.112212	0.000523	0.010689	0.006016	0.001688	0.016881
18-Nov-2025	0.236457	11.053900	17.265000	2.733780	38.859294	1.538090	0.021219	0.214584	0.040385	0.003073	0.001759	0.113057	0.000527	0.010768	0.006060	0.001700	0.017003
19-Nov-2025	0.236422	11.005200	17.189300	2.721600	38.687533	1.531370	0.021126	0.213643	0.040208	0.003059	0.001751	0.112541	0.000524	0.010720	0.006033	0.001693	0.016929
20-Nov-2025	0.236234	11.066800	17.284400	2.737210	38.905630	1.539780	0.021245	0.214847	0.040440	0.003077	0.001762	0.113217	0.000527	0.010781	0.006067	0.001702	0.017023
21-Nov-2025	0.235906	11.144500	17.405400	2.756530	39.179207	1.550540	0.021394	0.216357	0.040726	0.003099	0.001774	0.114025	0.000531	0.010857	0.006109	0.001714	0.017143
22-Nov-2025	0.235768	11.221100	17.524800	2.775510	39.448637	1.561170	0.021541	0.217842	0.041005	0.003120	0.001786	0.114815	0.000535	0.010932	0.006151	0.001726	0.017260
23-Nov-2025	0.235740	11.312800	17.668800	2.797990	39.770184	1.574030	0.021717	0.219618	0.041336	0.003145	0.001801	0.115727	0.000539	0.011021	0.006202	0.001740	0.017402
24-Nov-2025	0.235805	11.352800	17.721100	2.811480	39.925616	1.578190	0.021797	0.220425	0.041531	0.003160	0.001812	0.116602	0.000541	0.011069	0.006222	0.001746	0.017460
25-Nov-2025	0.235340	11.409600	17.786500	2.832400	40.153594	1.582750	0.021912	0.221597	0.041835	0.003183	0.001830	0.118068	0.000542	0.011142	0.006249	0.001754	0.017543
26-Nov-2025	0.235007	11.460600	17.857200	2.848280	40.346335	1.588580	0.022013	0.222616	0.042067	0.003201	0.001843	0.119070	0.000544	0.011200	0.006276	0.001762	0.017619
27-Nov-2025	0.234772	11.513500	17.934700	2.862500	40.536985	1.595200	0.022116	0.223661	0.042278	0.003217	0.001853	0.119792	0.000547	0.011255	0.006304	0.001770	0.017699
28-Nov-2025	0.234707	11.564600	18.012300	2.876140	40.720751	1.602010	0.022215	0.224660	0.042478	0.003232	0.001862	0.120411	0.000549	0.011307	0.006332	0.001778	0.017777

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
29-Nov-2025	0.234316	11.341600	17.656500	2.823510	39.947189	1.569910	0.021789	0.220357	0.041701	0.003173	0.001830	0.118419	0.000538	0.011097	0.006208	0.001743	0.017433
30-Nov-2025	0.234058	11.384800	17.726200	2.832980	40.094057	1.576240	0.021872	0.221190	0.041842	0.003183	0.001835	0.118730	0.000540	0.011136	0.006232	0.001750	0.017500
1-Dec-2025	0.234304	11.425000	17.791200	2.842460	40.233475	1.582150	0.021948	0.221963	0.041982	0.003194	0.001841	0.119072	0.000542	0.011173	0.006255	0.001756	0.017562
2-Dec-2025	0.234160	11.478600	17.874200	2.855790	40.422207	1.589620	0.022051	0.223006	0.042179	0.003209	0.001849	0.119585	0.000545	0.011226	0.006284	0.001764	0.017644
3-Dec-2025	0.233564	11.543700	17.977300	2.871400	40.649044	1.598750	0.022176	0.224266	0.042410	0.003227	0.001859	0.120187	0.000548	0.011288	0.006320	0.001774	0.017745
4-Dec-2025	0.233526	11.323000	17.636000	2.815690	39.868542	1.568540	0.021751	0.219972	0.041589	0.003164	0.001822	0.117782	0.000537	0.011070	0.006199	0.001741	0.017406
5-Dec-2025	0.233685	11.375300	17.722700	2.827090	40.046081	1.576530	0.021850	0.220973	0.041759	0.003177	0.001828	0.118117	0.000540	0.011117	0.006229	0.001749	0.017488
6-Dec-2025	0.233846	11.430700	17.813400	2.839440	40.235272	1.584830	0.021955	0.222034	0.041943	0.003191	0.001836	0.118511	0.000543	0.011168	0.006260	0.001757	0.017574
7-Dec-2025	0.233595	11.489700	17.909300	2.852900	40.438023	1.593570	0.022067	0.223169	0.042142	0.003206	0.001843	0.118967	0.000546	0.011222	0.006293	0.001767	0.017666
8-Dec-2025	0.233503	11.543100	17.996700	2.864860	40.620614	1.601560	0.022169	0.224192	0.042320	0.003220	0.001850	0.119352	0.000549	0.011271	0.006323	0.001775	0.017749
9-Dec-2025	0.233813	11.596800	18.084100	2.877060	40.804943	1.609540	0.022271	0.225225	0.042501	0.003233	0.001857	0.119760	0.000551	0.011320	0.006353	0.001783	0.017832
10-Dec-2025	0.233758	11.659400	18.184400	2.891750	41.021748	1.618610	0.022390	0.226432	0.042718	0.003250	0.001866	0.120298	0.000554	0.011379	0.006388	0.001793	0.017929
11-Dec-2025	0.233364	11.708400	18.264100	2.902900	41.190017	1.625870	0.022483	0.227374	0.042884	0.003262	0.001873	0.120674	0.000557	0.011425	0.006415	0.001801	0.018005
12-Dec-2025	0.233621	11.736000	18.311000	2.908530	41.282119	1.630240	0.022535	0.227898	0.042968	0.003269	0.001876	0.120803	0.000558	0.011448	0.006431	0.001805	0.018048
13-Dec-2025	0.233545	11.785300	18.390600	2.919900	41.452042	1.637480	0.022629	0.228847	0.043137	0.003282	0.001882	0.121199	0.000561	0.011494	0.006458	0.001812	0.018125
14-Dec-2025	0.233100	11.831600	18.466700	2.930190	41.610028	1.644460	0.022717	0.229735	0.043290	0.003293	0.001888	0.121523	0.000563	0.011536	0.006484	0.001820	0.018197
15-Dec-2025	0.233114	11.867700	18.527100	2.937840	41.731672	1.650050	0.022785	0.230423	0.043404	0.003302	0.001892	0.121728	0.000565	0.011568	0.006505	0.001825	0.018253
16-Dec-2025	0.233215	11.914200	18.601800	2.948740	41.892669	1.656810	0.022874	0.231321	0.043566	0.003314	0.001899	0.122125	0.000567	0.011612	0.006530	0.001833	0.018326
17-Dec-2025	0.232908	11.954700	18.667700	2.957910	42.031559	1.662820	0.022951	0.232099	0.043702	0.003325	0.001904	0.122429	0.000569	0.011649	0.006553	0.001839	0.018389
18-Dec-2025	0.233005	11.983700	18.718700	2.963280	42.126086	1.667670	0.023005	0.232644	0.043783	0.003331	0.001907	0.122494	0.000571	0.011673	0.006570	0.001843	0.018434
19-Dec-2025	0.233306	12.016800	18.777900	2.969150	42.232909	1.673340	0.023066	0.233266	0.043872	0.003337	0.001909	0.122532	0.000573	0.011699	0.006589	0.001849	0.018487
20-Dec-2025	0.233085	12.052500	18.840600	2.975840	42.349602	1.679280	0.023133	0.233939	0.043973	0.003345	0.001912	0.122621	0.000575	0.011728	0.006610	0.001854	0.018544
21-Dec-2025	0.232863	12.089300	18.902900	2.983450	42.472829	1.685090	0.023202	0.234640	0.044087	0.003354	0.001916	0.122804	0.000577	0.011760	0.006631	0.001860	0.018602
22-Dec-2025	0.233046	12.100900	18.924600	2.985160	42.508836	1.687210	0.023224	0.234853	0.044113	0.003356	0.001916	0.122774	0.000578	0.011768	0.006638	0.001862	0.018620
23-Dec-2025	0.232951	12.121000	18.959200	2.989150	42.575457	1.690460	0.023261	0.235234	0.044173	0.003360	0.001918	0.122852	0.000579	0.011785	0.006649	0.001865	0.018652
24-Dec-2025	0.232932	12.143100	18.996400	2.993750	42.649583	1.693930	0.023303	0.235655	0.044242	0.003365	0.001920	0.122966	0.000580	0.011805	0.006662	0.001869	0.018687
25-Dec-2025	0.232960	12.171500	19.043100	3.000040	42.746400	1.698200	0.023357	0.236199	0.044336	0.003373	0.001924	0.123163	0.000581	0.011830	0.006678	0.001873	0.018731
26-Dec-2025	0.232815	12.199500	19.089200	3.006270	42.841971	1.702430	0.023410	0.236737	0.044429	0.003380	0.001927	0.123358	0.000583	0.011856	0.006694	0.001877	0.018774
27-Dec-2025	0.232949	12.202500	19.096900	3.006020	42.848433	1.703280	0.023415	0.236785	0.044426	0.003379	0.001927	0.123262	0.000583	0.011856	0.006696	0.001878	0.018780
28-Dec-2025	0.233012	12.219000	19.124500	3.009530	42.904088	1.705840	0.023446	0.237100	0.044478	0.003383	0.001928	0.123356	0.000584	0.011871	0.006705	0.001881	0.018806
29-Dec-2025	0.232835	12.254500	19.181300	3.017890	43.027158	1.710970	0.023514	0.237785	0.044602	0.003393	0.001934	0.123666	0.000586	0.011904	0.006725	0.001886	0.018860
30-Dec-2025	0.232911	12.293100	19.242700	3.027110	43.161510	1.716500	0.023588	0.238532	0.044739	0.003403	0.001939	0.124017	0.000588	0.011941	0.006746	0.001892	0.018920
31-Dec-2025	0.233015	12.335500	19.309700	3.037360	43.309592	1.722540	0.023669	0.239353	0.044891	0.003415	0.001946	0.124419	0.000590	0.011982	0.006770	0.001899	0.018986
1-Jan-2026	0.232861	12.386100	19.389000	3.049740	43.486921	1.729590	0.023766	0.240333	0.045074	0.003429	0.001954	0.124921	0.000592	0.012031	0.006797	0.001906	0.019063
2-Jan-2026	0.232864	12.430600	19.458900	3.060690	43.643130	1.735830	0.023851	0.241198	0.045235	0.003441	0.001961	0.125367	0.000594	0.012074	0.006822	0.001913	0.019132
3-Jan-2026	0.232942	12.462300	19.508700	3.068450	43.754240	1.740280	0.023912	0.241813	0.045350	0.003450	0.001966	0.125681	0.000596	0.012105	0.006839	0.001918	0.019181
4-Jan-2026	0.232792	12.495100	19.559700	3.076580	43.869621	1.744820	0.023975	0.242448	0.045470	0.003459	0.001971	0.126021	0.000597	0.012137	0.006857	0.001923	0.019231
5-Jan-2026	0.232767	12.528900	19.612100	3.085070	43.988982	1.749460	0.024040	0.243106	0.045596	0.003468	0.001976	0.126383	0.000599	0.012170	0.006876	0.001928	0.019283
6-Jan-2026	0.232865	12.565300	19.668600	3.094180	44.117387	1.754480	0.024110	0.243814	0.045730	0.003479	0.001982	0.126768	0.000601	0.012206	0.006895	0.001934	0.019339
7-Jan-2026	0.232738	12.615100	19.746100	3.106590	44.292842	1.761370	0.024206	0.244782	0.045913	0.003492	0.001990	0.127289	0.000603	0.012254	0.006923	0.001942	0.019416
8-Jan-2026	0.232665	12.666800	19.826600	3.119460	44.474936	1.768520	0.024305	0.245786	0.046104	0.003507	0.001999	0.127829	0.000605	0.012305	0.006951	0.001950	0.019495
9-Jan-2026	0.232784	12.713500	19.899300	3.131100	44.639479	1.774990	0.024395	0.246694	0.046275	0.003520	0.002006	0.128317	0.000608	0.012351	0.006977	0.001957	0.019567
10-Jan-2026	0.232770	12.765700	19.980500	3.144090	44.823316	1.782210	0.024495	0.247707	0.046467	0.003535	0.002015	0.128862	0.000610	0.012402	0.007005	0.001965	0.019647
11-Jan-2026	0.232630	12.825300	20.073300	3.158910	45.033165	1.790470	0.024609	0.248866	0.046686	0.003551	0.002024	0.129482	0.000613	0.012460	0.007038	0.001974	0.019739
12-Jan-2026	0.232646	12.879900	20.158700	3.172400	45.225054	1.798070	0.024714	0.249926	0.046886	0.003566	0.002033	0.130039	0.000616	0.012513	0.007068	0.001982	0.019823
13-Jan-2026	0.232710	12.934000	20.243300	3.185710	45.414952	1.805620	0.024818	0.250974	0.047082	0.003581	0.002041	0.130583	0.000618	0.012566	0.007097	0.001991	0.019906
14-Jan-2026	0.232596	12.994000	20.337200	3.200530	45.625801	1.813990	0.024933	0.252140	0.047301	0.003598	0.002051	0.131194	0.000621	0.012624	0.007130	0.002000	0.019998
15-Jan-2026	0.232560	13.058500	20.437500	3.216610	45.853074	1.822910	0.025057	0.253393	0.047539	0.003616	0.002061	0.131869	0.000624	0.012687	0.007166	0.002010	0.020097
16-Jan-2026	0.232664	13.120900	20.534600	3.232140	46.072840	1.831540	0.025177	0.254605	0.047768	0.003634	0.002071	0.132521	0.000627	0.012748	0.007200	0.002019	0.020193
17-Jan-2026	0.232641	13.181700	20.629900	3.247070	46.286139	1.840040	0.025294	0.255784	0.047989	0.003650	0.002081	0.133130	0.000630	0.012807	0.007233	0.002029	0.020287
18-Jan-2026	0.232527	13.243700	20.727500	3.262210	46.503300	1.848770	0.025413	0.256987	0.048213	0.003667	0.002091	0.133737	0.000633	0.012867	0.007267	0.002038	0.020382
19-Jan-2026	0.232587	13.304800	20.823700	3.277090	46.717142	1.857380	0.025530	0.258171	0.048433	0.003684	0.002100	0.134331	0.000636	0.012926	0.007301	0.002048	0.020477
20-Jan-2026	0.232642	13.361800	20.913600	3.290920	46.916423	1.865440	0.025639	0.259275	0.048637	0.003700	0.002109	0.134879	0.000639	0.012981	0.007332	0.002056	0.020565

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
21-Jan-2026	0.232578	13.414700	20.997100	3.303670	47.101019	1.872930	0.025740	0.260298	0.048826	0.003714	0.002117	0.135379	0.000641	0.013031	0.007361	0.002065	0.020646
22-Jan-2026	0.232513	13.464700	21.076400	3.315640	47.275161	1.880060	0.025836	0.261265	0.049003	0.003727	0.002124	0.135840	0.000644	0.013079	0.007389	0.002072	0.020723
23-Jan-2026	0.232596	13.518500	21.161600	3.328590	47.462828	1.887710	0.025939	0.262306	0.049195	0.003742	0.002132	0.136344	0.000646	0.013131	0.007419	0.002081	0.020806
24-Jan-2026	0.232600	13.579500	21.257900	3.343390	47.676092	1.896340	0.026055	0.263489	0.049414	0.003759	0.002142	0.136930	0.000649	0.013189	0.007452	0.002090	0.020900
25-Jan-2026	0.232577	13.643900	21.359500	3.359020	47.901263	1.905440	0.026179	0.264736	0.049645	0.003776	0.002151	0.137550	0.000652	0.013251	0.007488	0.002100	0.021000
26-Jan-2026	0.232569	13.711200	21.465500	3.375370	48.136640	1.914940	0.026308	0.266040	0.049887	0.003795	0.002162	0.138200	0.000656	0.013316	0.007525	0.002110	0.021103
27-Jan-2026	0.232595	13.781700	21.576500	3.392520	48.383302	1.924880	0.026443	0.267406	0.050141	0.003814	0.002173	0.138884	0.000659	0.013384	0.007564	0.002121	0.021212
28-Jan-2026	0.232592	13.855000	21.691900	3.410350	48.639756	1.935210	0.026583	0.268826	0.050405	0.003834	0.002184	0.139596	0.000663	0.013455	0.007604	0.002133	0.021325
29-Jan-2026	0.232593	13.930800	21.811300	3.428820	48.905088	1.945890	0.026729	0.270296	0.050678	0.003855	0.002196	0.140334	0.000666	0.013528	0.007646	0.002144	0.021442
30-Jan-2026	0.232588	14.009600	21.935200	3.447990	49.180794	1.956980	0.026879	0.271821	0.050961	0.003876	0.002208	0.141101	0.000670	0.013604	0.007689	0.002156	0.021563
31-Jan-2026	0.232588	14.090500	22.062600	3.467720	49.464049	1.968370	0.027035	0.273390	0.051253	0.003899	0.002220	0.141891	0.000674	0.013682	0.007734	0.002169	0.021688
1-Feb-2026	0.232592	14.173300	22.192800	3.487900	49.753902	1.980020	0.027193	0.274994	0.051552	0.003921	0.002233	0.142700	0.000678	0.013762	0.007779	0.002182	0.021816
2-Feb-2026	0.232583	14.258100	22.326100	3.508580	50.050808	1.991950	0.027356	0.276637	0.051857	0.003944	0.002246	0.143530	0.000682	0.013843	0.007826	0.002195	0.021946
3-Feb-2026	0.232578	14.344700	22.462300	3.529710	50.354062	2.004130	0.027522	0.278316	0.052170	0.003968	0.002260	0.144378	0.000686	0.013927	0.007873	0.002208	0.022080
4-Feb-2026	0.232575	14.433200	22.601500	3.551310	50.663995	2.016580	0.027691	0.280032	0.052489	0.003993	0.002273	0.145246	0.000690	0.014013	0.007922	0.002222	0.022216
5-Feb-2026	0.232572	14.523400	22.743300	3.573340	50.979944	2.029260	0.027864	0.281780	0.052815	0.004017	0.002287	0.146132	0.000695	0.014100	0.007972	0.002236	0.022355
6-Feb-2026	0.232571	14.615400	22.887900	3.595800	51.302158	2.042190	0.028041	0.283564	0.053147	0.004043	0.002301	0.147036	0.000699	0.014189	0.008022	0.002250	0.022497
7-Feb-2026	0.232569	14.711900	23.039000	3.619550	51.640921	2.055670	0.028226	0.285436	0.053498	0.004069	0.002317	0.148008	0.000704	0.014282	0.008075	0.002265	0.022645
8-Feb-2026	0.232569	14.810000	23.193600	3.643530	51.984627	2.069520	0.028414	0.287337	0.053853	0.004096	0.002332	0.148975	0.000708	0.014377	0.008129	0.002280	0.022797
9-Feb-2026	0.232572	14.908600	23.348300	3.667520	52.329622	2.083340	0.028603	0.289248	0.054208	0.004123	0.002347	0.149932	0.000713	0.014472	0.008183	0.002295	0.022948
10-Feb-2026	0.232576	15.005900	23.501200	3.691360	52.670753	2.097000	0.028790	0.291136	0.054560	0.004150	0.002362	0.150897	0.000718	0.014566	0.008237	0.002310	0.023098
11-Feb-2026	0.232578	15.107900	23.661200	3.716330	53.028273	2.111300	0.028985	0.293113	0.054930	0.004178	0.002378	0.151908	0.000723	0.014665	0.008293	0.002326	0.023255
12-Feb-2026	0.232574	15.218300	23.834600	3.743400	53.415416	2.126790	0.029197	0.295255	0.055330	0.004209	0.002395	0.153004	0.000728	0.014772	0.008354	0.002343	0.023425
13-Feb-2026	0.232572	15.327500	24.005900	3.770150	53.798245	2.142100	0.029406	0.297373	0.055725	0.004239	0.002413	0.154088	0.000733	0.014878	0.008414	0.002359	0.023594
14-Feb-2026	0.232570	15.458800	24.212000	3.802240	54.258248	2.160520	0.029658	0.299917	0.056200	0.004275	0.002433	0.155384	0.000740	0.015005	0.008486	0.002380	0.023796
15-Feb-2026	0.232570	15.597900	24.430500	3.836340	54.746004	2.180030	0.029925	0.302616	0.056704	0.004313	0.002455	0.156765	0.000746	0.015139	0.008562	0.002401	0.024010
16-Feb-2026	0.232570	15.742700	24.657600	3.871840	55.253759	2.200320	0.030202	0.305424	0.057229	0.004353	0.002477	0.158206	0.000753	0.015280	0.008642	0.002423	0.024233
17-Feb-2026	0.232570	15.883100	24.877800	3.906280	55.746162	2.219980	0.030472	0.308147	0.057738	0.004392	0.002499	0.159606	0.000760	0.015416	0.008719	0.002445	0.024449
18-Feb-2026	0.232570	16.018400	25.089800	3.939470	56.220682	2.238920	0.030731	0.310770	0.058229	0.004429	0.002520	0.160955	0.000766	0.015547	0.008793	0.002466	0.024657
19-Feb-2026	0.232569	16.166200	25.321600	3.975760	56.739181	2.259610	0.031015	0.313638	0.058765	0.004470	0.002544	0.162432	0.000774	0.015690	0.008874	0.002489	0.024885
20-Feb-2026	0.232568	16.327600	25.574800	4.015340	57.305187	2.282220	0.031324	0.316768	0.059350	0.004514	0.002569	0.164039	0.000781	0.015846	0.008963	0.002513	0.025134
21-Feb-2026	0.232569	16.495300	25.838000	4.056450	57.893225	2.305730	0.031646	0.320021	0.059958	0.004561	0.002595	0.165706	0.000789	0.016009	0.009055	0.002539	0.025392
22-Feb-2026	0.232552	16.663800	26.102100	4.097780	58.484167	2.329320	0.031969	0.323288	0.060569	0.004607	0.002621	0.167386	0.000797	0.016172	0.009148	0.002565	0.025651
23-Feb-2026	0.232551	16.838100	26.375400	4.140590	59.095685	2.353710	0.032303	0.326670	0.061202	0.004655	0.002649	0.169130	0.000806	0.016341	0.009243	0.002592	0.025920
24-Feb-2026	0.232551	17.006300	26.639000	4.181910	59.685836	2.377240	0.032626	0.329932	0.061813	0.004702	0.002675	0.170813	0.000814	0.016504	0.009336	0.002618	0.026179
25-Feb-2026	0.232552	17.179500	26.910300	4.224440	60.293455	2.401470	0.032958	0.333291	0.062441	0.004749	0.002702	0.172546	0.000822	0.016672	0.009431	0.002645	0.026445
26-Feb-2026	0.232551	17.367000	27.204300	4.270520	60.951400	2.427710	0.033318	0.336930	0.063123	0.004801	0.002732	0.174424	0.000831	0.016854	0.009534	0.002673	0.026734
27-Feb-2026	0.232554	17.552100	27.494400	4.315960	61.600717	2.453610	0.033673	0.340520	0.063794	0.004852	0.002761	0.176275	0.000840	0.017033	0.009635	0.002702	0.027019
28-Feb-2026	0.232557	17.751400	27.806800	4.364900	62.299904	2.481500	0.034055	0.344385	0.064518	0.004907	0.002792	0.178268	0.000849	0.017227	0.009745	0.002733	0.027326
1-Mar-2026	0.232559	17.982100	28.168400	4.421590	63.109411	2.513770	0.034498	0.348861	0.065356	0.004971	0.002828	0.180579	0.000861	0.017450	0.009871	0.002768	0.027681
2-Mar-2026	0.232560	18.235800	28.565900	4.483950	63.999699	2.549250	0.034985	0.353783	0.066277	0.005041	0.002868	0.183124	0.000873	0.017697	0.010011	0.002807	0.028072
3-Mar-2026	0.232562	18.505400	28.988200	4.550210	64.945749	2.586940	0.035502	0.359013	0.067257	0.005116	0.002911	0.185828	0.000886	0.017958	0.010159	0.002849	0.028487
4-Mar-2026	0.232563	18.774400	29.409600	4.616330	65.889724	2.624550	0.036018	0.364230	0.068234	0.005190	0.002953	0.188527	0.000898	0.018219	0.010306	0.002890	0.028901
5-Mar-2026	0.232564	19.052800	29.845800	4.684780	66.866766	2.663480	0.036552	0.369632	0.069246	0.005267	0.002997	0.191321	0.000912	0.018489	0.010459	0.002933	0.029329
6-Mar-2026	0.232565	19.337300	30.291400	4.754710	67.865134	2.703250	0.037098	0.375151	0.070280	0.005346	0.003041	0.194176	0.000925	0.018765	0.010615	0.002977	0.029767
7-Mar-2026	0.232566	19.651600	30.783800	4.832000	68.968221	2.747190	0.037701	0.381248	0.071422	0.005432	0.003091	0.197332	0.000940	0.019070	0.010788	0.003025	0.030251
8-Mar-2026	0.232588	17.667600	27.673200	4.345070	62.008995	2.469450	0.033895	0.342767	0.064224	0.004885	0.002780	0.177525	0.000845	0.017147	0.009698	0.002720	0.027196
9-Mar-2026	0.232589	17.772000	27.836700	4.370680	62.375144	2.484050	0.034095	0.344791	0.064602	0.004914	0.002796	0.178568	0.000850	0.017248	0.009756	0.002736	0.027357
10-Mar-2026	0.232590	17.876800	28.001100	4.396430	62.742868	2.498720	0.034296	0.346825	0.064983	0.004943	0.002813	0.179616	0.000855	0.017350	0.009813	0.002752	0.027518
11-Mar-2026	0.232591	17.982800	28.167100	4.422450	63.114701	2.513540	0.034500	0.348880	0.065368	0.004972	0.002829	0.180676	0.000860	0.017453	0.009871	0.002768	0.027681
12-Mar-2026	0.232591	18.088100	28.332200	4.448310	63.484126	2.528280	0.034702	0.350922	0.065750	0.005001	0.002846	0.181730	0.000865	0.017555	0.009929	0.002784	0.027844
13-Mar-2026	0.232591	18.190600	28.492900	4.473490	63.843760	2.542620	0.034898	0.352911	0.066122	0.005029	0.002862	0.182756	0.000870	0.017654	0.009986	0.002800	0.028001
14-Mar-2026	0.232591	18.294900	28.656400	4.499120	64.209741	2.557220	0.035098	0.354935	0.066501	0.005058	0.002878	0.183800	0.000875	0.017756	0.010043	0.002816	0.028162

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
15-Mar-2026	0.232591	18.407900	28.833400	4.526870	64.606177	2.573020	0.035315	0.357127	0.066911	0.005089	0.002896	0.184931	0.000881	0.017865	0.010105	0.002834	0.028336
16-Mar-2026	0.232591	18.534100	29.031200	4.557880	65.048998	2.590670	0.035557	0.359574	0.067369	0.005124	0.002916	0.186196	0.000887	0.017988	0.010174	0.002853	0.028530
17-Mar-2026	0.232592	18.679600	29.259100	4.593630	65.559530	2.611020	0.035836	0.362397	0.067898	0.005164	0.002939	0.187654	0.000894	0.018129	0.010254	0.002875	0.028754
18-Mar-2026	0.232592	18.828000	29.491800	4.630130	66.080391	2.631780	0.036121	0.365277	0.068437	0.005206	0.002962	0.189143	0.000901	0.018273	0.010336	0.002898	0.028983
19-Mar-2026	0.232592	18.984300	29.736700	4.668550	66.628886	2.653640	0.036421	0.368310	0.069005	0.005249	0.002987	0.190711	0.000908	0.018424	0.010421	0.002922	0.029223
20-Mar-2026	0.232593	19.149500	29.995400	4.709130	67.208499	2.676730	0.036738	0.371513	0.069605	0.005294	0.003013	0.192367	0.000916	0.018585	0.010512	0.002948	0.029478
21-Mar-2026	0.232593	19.324300	30.269300	4.752110	67.821966	2.701180	0.037073	0.374905	0.070241	0.005343	0.003040	0.194121	0.000925	0.018754	0.010608	0.002975	0.029747
22-Mar-2026	0.232593	19.509800	30.559800	4.797700	68.472899	2.727110	0.037429	0.378502	0.070914	0.005394	0.003069	0.195982	0.000934	0.018934	0.010710	0.003003	0.030032
23-Mar-2026	0.232593	19.706300	30.867700	4.846010	69.162500	2.754580	0.037806	0.382315	0.071629	0.005448	0.003100	0.197955	0.000943	0.019125	0.010818	0.003033	0.030335
24-Mar-2026	0.232593	19.912300	31.190500	4.896680	69.885541	2.783390	0.038201	0.386312	0.072377	0.005505	0.003133	0.200023	0.000953	0.019325	0.010931	0.003065	0.030652
25-Mar-2026	0.232593	20.130500	31.532300	4.950320	70.651276	2.813890	0.038620	0.390545	0.073170	0.005566	0.003167	0.202214	0.000963	0.019537	0.011051	0.003099	0.030988
26-Mar-2026	0.232594	20.358300	31.889000	5.006310	71.450660	2.845730	0.039057	0.394963	0.073998	0.005628	0.003203	0.204500	0.000974	0.019758	0.011176	0.003134	0.031338
27-Mar-2026	0.232594	20.595200	32.260300	5.064590	72.282196	2.878860	0.039511	0.399561	0.074859	0.005694	0.003240	0.206880	0.000985	0.019987	0.011306	0.003170	0.031703
28-Mar-2026	0.232594	20.841400	32.645900	5.125120	73.146220	2.913280	0.039984	0.404337	0.075754	0.005762	0.003279	0.209352	0.000997	0.020226	0.011441	0.003208	0.032082
29-Mar-2026	0.232594	21.096800	33.046000	5.187920	74.042564	2.948980	0.040474	0.409292	0.076682	0.005833	0.003319	0.211917	0.001009	0.020474	0.011581	0.003248	0.032475
30-Mar-2026	0.232594	21.361300	33.460300	5.252960	74.970855	2.985950	0.040981	0.414424	0.077644	0.005906	0.003360	0.214573	0.001022	0.020731	0.011726	0.003288	0.032882
31-Mar-2026	0.232594	21.635100	33.889200	5.320280	75.931758	3.024230	0.041506	0.419735	0.078639	0.005981	0.003404	0.217322	0.001035	0.020997	0.011877	0.003330	0.033304
1-Apr-2026	0.232594	21.918000	34.332300	5.389830	76.924566	3.063770	0.042049	0.425222	0.079667	0.006060	0.003448	0.220163	0.001049	0.021271	0.012032	0.003374	0.033739
2-Apr-2026	0.232594	22.200200	34.774300	5.459220	77.914967	3.103210	0.042590	0.430697	0.080692	0.006138	0.003492	0.222997	0.001062	0.021545	0.012187	0.003417	0.034174
3-Apr-2026	0.232594	22.452800	35.170000	5.521340	78.801520	3.138530	0.043075	0.435598	0.081611	0.006207	0.003532	0.225535	0.001074	0.021790	0.012325	0.003456	0.034563
4-Apr-2026	0.232594	22.665200	35.502800	5.573570	79.546966	3.168220	0.043482	0.439719	0.082383	0.006266	0.003566	0.227668	0.001085	0.021996	0.012442	0.003489	0.034890
5-Apr-2026	0.232594	22.840700	35.777600	5.616720	80.162881	3.192750	0.043819	0.443124	0.083020	0.006315	0.003593	0.229431	0.001093	0.022167	0.012538	0.003516	0.035160
6-Apr-2026	0.232594	22.985400	36.004300	5.652310	80.670756	3.212980	0.044097	0.445931	0.083546	0.006355	0.003616	0.230884	0.001100	0.022307	0.012618	0.003538	0.035382
7-Apr-2026	0.232594	23.105100	36.191800	5.681740	81.090840	3.229710	0.044326	0.448253	0.083981	0.006388	0.003635	0.232086	0.001106	0.022423	0.012684	0.003557	0.035567
8-Apr-2026	0.232594	23.204500	36.347500	5.706190	81.439727	3.243610	0.044517	0.450182	0.084343	0.006415	0.003650	0.233085	0.001110	0.022520	0.012738	0.003572	0.035720
9-Apr-2026	0.232594	23.287400	36.477300	5.726570	81.730653	3.255190	0.044676	0.451790	0.084644	0.006438	0.003663	0.233917	0.001114	0.022600	0.012784	0.003585	0.035847
10-Apr-2026	0.232594	23.356700	36.586000	5.743620	81.973907	3.264890	0.044809	0.453135	0.084896	0.006457	0.003674	0.234614	0.001118	0.022667	0.012822	0.003595	0.035954
11-Apr-2026	0.232594	23.414900	36.677200	5.757940	82.178202	3.273020	0.044921	0.454265	0.085108	0.006473	0.003683	0.235199	0.001120	0.022724	0.012854	0.003604	0.036044
12-Apr-2026	0.232594	23.464200	36.754300	5.770040	82.351132	3.279900	0.045015	0.455220	0.085287	0.006487	0.003691	0.235693	0.001123	0.022772	0.012881	0.003612	0.036119
13-Apr-2026	0.232594	23.505900	36.819600	5.780310	82.497549	3.285740	0.045095	0.456029	0.085438	0.006499	0.003698	0.236113	0.001125	0.022812	0.012904	0.003618	0.036184
14-Apr-2026	0.232594	23.542600	36.877200	5.789340	82.626374	3.290870	0.045166	0.456742	0.085572	0.006509	0.003704	0.236482	0.001127	0.022848	0.012924	0.003624	0.036240
15-Apr-2026	0.232594	23.571400	36.922300	5.796430	82.727485	3.294900	0.045221	0.457301	0.085677	0.006517	0.003708	0.236771	0.001128	0.022876	0.012940	0.003628	0.036285
16-Apr-2026	0.232594	23.596200	36.961200	5.802530	82.814530	3.298370	0.045269	0.457782	0.085767	0.006524	0.003712	0.237020	0.001129	0.022900	0.012953	0.003632	0.036323
17-Apr-2026	0.232594	23.617600	36.994600	5.807780	82.889585	3.301350	0.045310	0.458197	0.085844	0.006530	0.003715	0.237235	0.001130	0.022921	0.012965	0.003636	0.036356
18-Apr-2026	0.232594	23.636100	37.023500	5.812320	82.954475	3.303930	0.045345	0.458555	0.085912	0.006535	0.003718	0.237421	0.001131	0.022939	0.012975	0.003638	0.036384
19-Apr-2026	0.232594	23.652100	37.048600	5.816260	83.010652	3.306170	0.045376	0.458865	0.085970	0.006539	0.003721	0.237581	0.001132	0.022954	0.012984	0.003641	0.036409
20-Apr-2026	0.232594	23.666100	37.070500	5.819700	83.059776	3.308130	0.045403	0.459137	0.086021	0.006543	0.003723	0.237722	0.001132	0.022968	0.012992	0.003643	0.036430
21-Apr-2026	0.232594	23.678600	37.090100	5.822780	83.103672	3.309870	0.045427	0.459380	0.086066	0.006546	0.003725	0.237848	0.001133	0.022980	0.012998	0.003645	0.036450
22-Apr-2026	0.232594	23.689700	37.107600	5.825520	83.142672	3.311430	0.045448	0.459596	0.086107	0.006549	0.003727	0.237960	0.001134	0.022991	0.013004	0.003647	0.036467
23-Apr-2026	0.232594	23.699700	37.123200	5.827980	83.177773	3.312830	0.045467	0.459790	0.086143	0.006552	0.003728	0.238061	0.001134	0.023000	0.013010	0.003648	0.036482
24-Apr-2026	0.232594	23.708900	37.137500	5.830230	83.210010	3.314100	0.045485	0.459967	0.086176	0.006555	0.003730	0.238152	0.001134	0.023009	0.013015	0.003650	0.036496
25-Apr-2026	0.232594	23.717300	37.150700	5.832290	83.239468	3.315280	0.045501	0.460130	0.086207	0.006557	0.003731	0.238237	0.001135	0.023017	0.013020	0.003651	0.036509
26-Apr-2026	0.232594	23.725000	37.162800	5.834200	83.266561	3.316360	0.045516	0.460280	0.086235	0.006559	0.003732	0.238315	0.001135	0.023025	0.013024	0.003652	0.036521
27-Apr-2026	0.232594	23.732200	37.174100	5.835980	83.291869	3.317370	0.045530	0.460421	0.086261	0.006561	0.003733	0.238388	0.001136	0.023032	0.013028	0.003653	0.036532
28-Apr-2026	0.232594	23.739000	37.184800	5.837650	83.315726	3.318320	0.045543	0.460552	0.086286	0.006563	0.003734	0.238456	0.001136	0.023038	0.013032	0.003654	0.036543
29-Apr-2026	0.232594	23.745500	37.194900	5.839230	83.338463	3.319220	0.045555	0.460677	0.086309	0.006565	0.003736	0.238521	0.001136	0.023045	0.013035	0.003655	0.036552
30-Apr-2026	0.232603	23.751600	37.204500	5.840750	83.359954	3.320080	0.045567	0.460797	0.086332	0.006567	0.003736	0.238583	0.001137	0.023051	0.013038	0.003656	0.036562
1-May-2026	0.232700	23.757600	37.213900	5.842230	83.381030	3.320920	0.045578	0.460914	0.086354	0.006568	0.003737	0.238643	0.001137	0.023057	0.013042	0.003657	0.036571
2-May-2026	0.233244	23.761600	37.220200	5.843210	83.395054	3.321480	0.045586	0.460991	0.086368	0.006569	0.003738	0.238683	0.001137	0.023060	0.013044	0.003658	0.036577
3-May-2026	0.235306	23.739500	37.185400	5.837760	83.317427	3.318380	0.045543	0.460561	0.086288	0.006563	0.003735	0.238461	0.001136	0.023039	0.013032	0.003654	0.036543
4-May-2026	0.237424	23.643900	37.035800	5.814280	82.982023	3.305020	0.045360	0.458708	0.085941	0.006537	0.003720	0.237503	0.001131	0.022946	0.012979	0.003640	0.036396
5-May-2026	0.239605	23.429000	36.699000	5.761440	82.227823	3.274970	0.044948	0.454538	0.085159	0.006477	0.003686	0.235346	0.001121	0.022738	0.012861	0.003607	0.036065
6-May-2026	0.242025	23.276500	36.460100	5.723990	81.692811	3.253630	0.044655	0.451580	0.084606	0.006435	0.003662	0.233820	0.001114	0.022590	0.012778	0.003583	0.035831

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
7-May-2026	0.244118	22.933100	35.922100	5.639540	80.487576	3.205620	0.043996	0.444917	0.083358	0.006340	0.003608	0.230371	0.001097	0.022256	0.012589	0.003530	0.035302
8-May-2026	0.246585	22.526300	35.284900	5.539490	79.059791	3.148760	0.043216	0.437025	0.081879	0.006228	0.003544	0.226283	0.001078	0.021862	0.012366	0.003468	0.034676
9-May-2026	0.249067	22.084900	34.593600	5.430940	77.510606	3.087080	0.042369	0.428462	0.080274	0.006106	0.003474	0.221847	0.001057	0.021433	0.012123	0.003400	0.033996
10-May-2026	0.253602	21.656000	33.921800	5.325440	76.005194	3.027140	0.041546	0.420141	0.078715	0.005987	0.003407	0.217536	0.001036	0.021017	0.011888	0.003334	0.033336
11-May-2026	0.257054	21.213400	33.228700	5.216560	74.451654	2.965280	0.040697	0.411553	0.077106	0.005865	0.003337	0.213084	0.001015	0.020587	0.011645	0.003265	0.032655
12-May-2026	0.260326	20.809900	32.596600	5.117300	73.035362	2.908890	0.039923	0.403724	0.075638	0.005753	0.003274	0.209028	0.000996	0.020196	0.011424	0.003203	0.032034
13-May-2026	0.263019	20.279300	31.765700	4.986770	71.172931	2.834750	0.038905	0.393430	0.073709	0.005606	0.003190	0.203691	0.000970	0.019681	0.011132	0.003122	0.031217
14-May-2026	0.265380	19.512800	30.565500	4.798160	68.482284	2.727660	0.037435	0.378559	0.070922	0.005394	0.003069	0.195976	0.000934	0.018936	0.010712	0.003004	0.030037
15-May-2026	0.267361	19.107700	29.931000	4.698500	67.060350	2.671050	0.036657	0.370698	0.069448	0.005282	0.003006	0.191901	0.000914	0.018543	0.010489	0.002941	0.029413
16-May-2026	0.272178	18.680200	29.261700	4.593340	65.559834	2.611320	0.035837	0.362406	0.067894	0.005164	0.002938	0.187602	0.000894	0.018128	0.010255	0.002876	0.028756
17-May-2026	0.285843	18.277300	28.630700	4.494210	64.145575	2.555030	0.035064	0.354589	0.066429	0.005053	0.002875	0.183548	0.000875	0.017737	0.010034	0.002814	0.028135
18-May-2026	0.288543	17.895600	28.032900	4.400290	62.805707	2.501680	0.034332	0.347182	0.065041	0.004947	0.002815	0.179707	0.000856	0.017366	0.009824	0.002755	0.027548
19-May-2026	0.290048	17.538500	27.473700	4.312440	61.552262	2.451790	0.033647	0.340254	0.063742	0.004848	0.002758	0.176115	0.000839	0.017020	0.009628	0.002700	0.026998
20-May-2026	0.294667	16.660300	26.098100	4.096490	58.470115	2.329040	0.031962	0.323217	0.060551	0.004606	0.002620	0.167294	0.000797	0.016168	0.009146	0.002565	0.025646
21-May-2026	0.297837	15.431000	24.172300	3.794240	54.155887	2.157170	0.029603	0.299366	0.056083	0.004266	0.002427	0.154951	0.000738	0.014975	0.008471	0.002375	0.023754
22-May-2026	0.300237	14.638200	22.933600	3.598340	51.369550	2.046760	0.028081	0.283968	0.053191	0.004045	0.002301	0.146859	0.000701	0.014203	0.008036	0.002253	0.022534
23-May-2026	0.302698	14.368400	22.510500	3.532090	50.423041	2.008950	0.027562	0.278724	0.052214	0.003971	0.002259	0.144158	0.000688	0.013942	0.007888	0.002212	0.022118
24-May-2026	0.303477	14.012400	21.951700	3.444880	49.174979	1.958940	0.026877	0.271789	0.050932	0.003872	0.002203	0.140607	0.000671	0.013597	0.007693	0.002157	0.021569
25-May-2026	0.306095	13.736800	21.519900	3.377190	48.208058	1.920390	0.026348	0.266440	0.049933	0.003796	0.002160	0.137845	0.000657	0.013330	0.007541	0.002115	0.021145
26-May-2026	0.309331	13.499700	21.148200	3.318970	47.376269	1.887180	0.025892	0.261833	0.049074	0.003730	0.002123	0.135471	0.000646	0.013100	0.007411	0.002078	0.020780
27-May-2026	0.311730	13.301600	20.837400	3.270340	46.681355	1.859400	0.025512	0.257982	0.048357	0.003675	0.002092	0.133489	0.000637	0.012909	0.007302	0.002047	0.020475
28-May-2026	0.313925	13.154200	20.606000	3.234240	46.164638	1.838690	0.025228	0.255107	0.047827	0.003634	0.002069	0.132018	0.000629	0.012766	0.007221	0.002025	0.020247
29-May-2026	0.319614	12.981600	20.335000	3.192010	45.559752	1.814410	0.024895	0.251742	0.047207	0.003586	0.002042	0.130300	0.000621	0.012599	0.007126	0.001998	0.019981
30-May-2026	0.330414	14.202600	22.250400	3.491450	49.841683	1.985690	0.027244	0.275499	0.051617	0.003925	0.002233	0.142503	0.000680	0.013781	0.007797	0.002186	0.021863
31-May-2026	0.339286	14.075100	22.050700	3.460110	49.394258	1.967880	0.026999	0.273027	0.051153	0.003890	0.002213	0.141224	0.000674	0.013657	0.007727	0.002167	0.021667
1-Jun-2026	0.351826	12.718900	19.925200	3.126910	44.635709	1.778100	0.024396	0.246702	0.046231	0.003515	0.002000	0.127633	0.000609	0.012342	0.006982	0.001958	0.019578
2-Jun-2026	0.364835	12.391500	19.407500	3.047850	43.492622	1.731250	0.023756	0.240222	0.045094	0.003423	0.001951	0.124448	0.000593	0.012030	0.006802	0.001907	0.019070
3-Jun-2026	0.398304	12.023300	18.831100	2.957240	42.200094	1.679910	0.023054	0.233130	0.043757	0.003321	0.001893	0.120745	0.000575	0.011673	0.006600	0.001851	0.018508
4-Jun-2026	0.461748	11.692200	18.296800	2.880340	41.056664	1.630500	0.022401	0.226524	0.042829	0.003224	0.001854	0.117734	0.000559	0.011371	0.006416	0.001801	0.018006
5-Jun-2026	0.510831	11.413800	17.840800	2.817660	40.103382	1.587590	0.021843	0.220887	0.041986	0.003141	0.001817	0.115341	0.000544	0.011125	0.006260	0.001759	0.017587
6-Jun-2026	0.556524	11.046000	17.230500	2.737150	38.853446	1.529520	0.021097	0.213359	0.041109	0.003029	0.001778	0.112363	0.000525	0.010811	0.006053	0.001703	0.017032
7-Jun-2026	0.610076	10.785500	16.804900	2.678140	37.959974	1.490080	0.020588	0.208238	0.040439	0.002953	0.001746	0.110141	0.000511	0.010581	0.005907	0.001664	0.016638
8-Jun-2026	0.691746	10.545600	16.402000	2.626960	37.150184	1.451080	0.020089	0.203175	0.039915	0.002878	0.001723	0.108283	0.000499	0.010382	0.005771	0.001627	0.016272
9-Jun-2026	0.774578	10.292700	15.976500	2.574270	36.301716	1.409690	0.019559	0.197793	0.039534	0.002799	0.001705	0.106437	0.000485	0.010178	0.005628	0.001589	0.015885
10-Jun-2026	0.863909	10.064800	15.593900	2.524540	35.527861	1.372680	0.019087	0.192980	0.039314	0.002728	0.001683	0.104681	0.000473	0.009984	0.005499	0.001554	0.015537
11-Jun-2026	0.977652	9.856350	15.241000	2.480750	34.827034	1.338290	0.018653	0.188537	0.039212	0.002664	0.001667	0.103334	0.000461	0.009815	0.005381	0.001522	0.015220
12-Jun-2026	1.104782	9.701970	14.978900	2.448290	34.307877	1.312840	0.018335	0.185250	0.038957	0.002617	0.001653	0.102273	0.000453	0.009690	0.005293	0.001499	0.014986
13-Jun-2026	1.278652	9.531290	14.688700	2.412400	33.733894	1.284740	0.017987	0.181642	0.038500	0.002565	0.001638	0.101113	0.000444	0.009554	0.005196	0.001473	0.014727
14-Jun-2026	1.486489	9.379700	14.426600	2.381660	33.228787	1.259130	0.017680	0.178479	0.038267	0.002519	0.001624	0.099992	0.000435	0.009438	0.005110	0.001450	0.014501
15-Jun-2026	1.723669	9.245300	14.191800	2.355110	32.783857	1.235900	0.017405	0.175643	0.038280	0.002478	0.001610	0.099141	0.000427	0.009338	0.005033	0.001430	0.014301
16-Jun-2026	1.944861	9.100940	13.940400	2.326380	32.305080	1.211020	0.017107	0.172566	0.038219	0.002433	0.001600	0.098287	0.000419	0.009230	0.004951	0.001408	0.014084
17-Jun-2026	2.084080	8.945130	13.665400	2.296380	31.792482	1.183560	0.016786	0.169288	0.038179	0.002384	0.001591	0.097457	0.000410	0.009119	0.004861	0.001385	0.013853
18-Jun-2026	2.161316	8.783400	13.380600	2.264850	31.258802	1.155220	0.016452	0.165852	0.038163	0.002334	0.001581	0.096603	0.000401	0.009002	0.004768	0.001361	0.013610
19-Jun-2026	2.243514	8.696990	13.221800	2.249870	30.981349	1.139080	0.016281	0.164137	0.038136	0.002306	0.001580	0.096589	0.000395	0.008948	0.004718	0.001349	0.013486
20-Jun-2026	2.297597	8.512340	12.897300	2.213460	30.370341	1.107000	0.015905	0.160257	0.038119	0.002250	0.001568	0.096524	0.000385	0.008814	0.004613	0.001321	0.013208
21-Jun-2026	2.362478	8.366920	12.642000	2.184930	29.889741	1.081790	0.015613	0.157270	0.038061	0.002206	0.001559	0.098413	0.000377	0.008708	0.004529	0.001299	0.012993
22-Jun-2026	2.422728	8.222380	12.390300	2.155730	29.408579	1.057140	0.015321	0.154247	0.037962	0.002163	0.001548	0.097376	0.000368	0.008600	0.004447	0.001277	0.012774
23-Jun-2026	2.490876	8.075680	12.133200	2.126700	28.922724	1.031850	0.015028	0.151211	0.037881	0.002118	0.001539	0.098322	0.000360	0.008493	0.004363	0.001256	0.012556
24-Jun-2026	2.582183	7.953590	11.918700	2.102370	28.517674	1.010850	0.014787	0.148674	0.037793	0.002083	0.001530	0.097107	0.000353	0.008404	0.004294	0.001237	0.012373
25-Jun-2026	2.665909	7.864790	11.763600	2.084480	28.222269	0.995716	0.014610	0.146842	0.037716	0.002057	0.001524	0.096456	0.000348	0.008339	0.004243	0.001224	0.012240
26-Jun-2026	2.742471	7.670270	11.426000	2.044570	27.572203	0.962900	0.014221	0.142777	0.037608	0.002001	0.001509	0.097293	0.000337	0.008192	0.004133	0.001194	0.011943
27-Jun-2026	2.808900	7.573830	11.256700	2.025380	27.252368	0.946383	0.014033	0.140818	0.037514	0.001973	0.001502	0.097676	0.000331	0.008122	0.004078	0.001180	0.011800
28-Jun-2026	2.866855	7.454260	11.048400	2.001360	26.854888	0.926020	0.013796	0.138387	0.037444	0.001937	0.001494	0.097836	0.000325	0.008033	0.004010	0.001162	0.011623

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
29-Jun-2026	2.924361	7.339640	10.844800	1.979510	26.478703	0.905839	0.013571	0.136065	0.037403	0.001901	0.001488	0.098019	0.000318	0.007953	0.003944	0.001146	0.011456
30-Jun-2026	3.022058	7.227650	10.647900	1.957080	26.106697	0.886647	0.013351	0.133767	0.037413	0.001869	0.001481	0.097957	0.000312	0.007872	0.003881	0.001129	0.011287
1-Jul-2026	3.501896	5.953110	8.452380	1.694590	21.843237	0.674133	0.010831	0.107910	0.033571	0.001495	0.001381	0.090530	0.000241	0.006891	0.003158	0.000938	0.009382
2-Jul-2026	3.820360	5.856140	8.276170	1.677260	21.529738	0.657198	0.010657	0.106159	0.033269	0.001489	0.001379	0.091981	0.000235	0.006828	0.003102	0.000924	0.009242
3-Jul-2026	5.009221	5.904960	8.362250	1.681310	21.668320	0.665942	0.010750	0.106977	0.033282	0.001489	0.001372	0.084359	0.000238	0.006880	0.003136	0.000933	0.009332
4-Jul-2026	6.873216	5.884860	8.323870	1.679960	21.612571	0.662696	0.010748	0.106940	0.033308	0.001535	0.001372	0.087031	0.000237	0.006867	0.003122	0.000928	0.009280
5-Jul-2026	8.467100	5.946110	8.417540	1.688360	21.800103	0.674022	0.010912	0.108597	0.033528	0.001577	0.001378	0.088057	0.000240	0.006937	0.003163	0.000936	0.009362
6-Jul-2026	9.635719	6.133590	8.769470	1.717760	22.389310	0.708340	0.011214	0.111618	0.033422	0.001579	0.001378	0.088329	0.000251	0.007052	0.003274	0.000965	0.009650
7-Jul-2026	10.260730	6.402180	9.263870	1.760320	23.235241	0.757596	0.011692	0.116423	0.033576	0.001659	0.001382	0.087519	0.000268	0.007238	0.003435	0.001006	0.010057
8-Jul-2026	11.345650	6.200510	8.894580	1.729020	22.602778	0.720780	0.011332	0.112817	0.033309	0.001599	0.001377	0.087110	0.000256	0.007091	0.003313	0.000975	0.009751
9-Jul-2026	11.848434	6.473600	9.391620	1.770940	23.457310	0.770738	0.011833	0.117828	0.033693	0.001685	0.001383	0.085152	0.000272	0.007297	0.003479	0.001016	0.010163
10-Jul-2026	13.133682	6.355260	9.176570	1.754210	23.092921	0.749090	0.011616	0.115662	0.033459	0.001650	0.001381	0.088236	0.000265	0.007200	0.003405	0.000998	0.009982
11-Jul-2026	13.702151	6.240600	8.968210	1.737300	22.736980	0.728026	0.011401	0.113498	0.033283	0.001614	0.001380	0.088984	0.000258	0.007109	0.003335	0.000981	0.009807
12-Jul-2026	14.526518	6.464150	9.370800	1.773430	23.443967	0.768860	0.011828	0.117742	0.033477	0.001691	0.001384	0.086346	0.000272	0.007275	0.003469	0.001014	0.010138
13-Jul-2026	14.710497	6.475920	9.394280	1.775530	23.482005	0.771073	0.011844	0.117909	0.033453	0.001693	0.001384	0.086731	0.000272	0.007278	0.003476	0.001016	0.010157
14-Jul-2026	15.165309	6.653810	9.720400	1.803010	24.039359	0.803637	0.012162	0.121095	0.033670	0.001747	0.001387	0.086119	0.000283	0.007407	0.003583	0.001043	0.010425
15-Jul-2026	15.496454	6.464320	9.368310	1.775800	23.454151	0.768866	0.011842	0.117869	0.033437	0.001707	0.001386	0.086447	0.000272	0.007267	0.003467	0.001013	0.010132
16-Jul-2026	15.577246	6.596140	9.617380	1.796800	23.869784	0.793009	0.012051	0.119993	0.033434	0.001730	0.001386	0.085971	0.000280	0.007348	0.003545	0.001033	0.010335
17-Jul-2026	16.170282	6.634020	9.686010	1.802630	23.988378	0.799952	0.012120	0.120684	0.033476	0.001742	0.001387	0.086528	0.000282	0.007376	0.003568	0.001039	0.010391
18-Jul-2026	17.152768	6.707380	9.819970	1.814570	24.220727	0.813325	0.012251	0.121972	0.033521	0.001765	0.001388	0.085662	0.000287	0.007426	0.003612	0.001050	0.010499
19-Jul-2026	16.922821	6.668030	9.754590	1.811030	24.107892	0.806100	0.012157	0.121067	0.033440	0.001758	0.001389	0.086239	0.000285	0.007375	0.003584	0.001044	0.010440
20-Jul-2026	17.194920	6.720440	9.850660	1.819740	24.274628	0.815689	0.012252	0.122011	0.033407	0.001767	0.001389	0.086372	0.000288	0.007410	0.003615	0.001052	0.010518
21-Jul-2026	18.086899	6.873150	10.124700	1.842000	24.747612	0.843609	0.012544	0.124902	0.033600	0.001817	0.001392	0.086390	0.000297	0.007536	0.003710	0.001075	0.010746
22-Jul-2026	18.439820	6.740480	9.887240	1.822970	24.337969	0.819398	0.012289	0.122382	0.033358	0.001773	0.001389	0.088798	0.000289	0.007423	0.003627	0.001055	0.010547
23-Jul-2026	18.616296	7.177320	10.683500	1.890220	25.705694	0.899313	0.013088	0.130357	0.033938	0.001908	0.001398	0.087907	0.000316	0.007749	0.003892	0.001121	0.011207
24-Jul-2026	18.614430	7.299090	10.909200	1.910580	26.093596	0.921656	0.013301	0.132502	0.034004	0.001943	0.001400	0.086756	0.000323	0.007827	0.003963	0.001139	0.011391
25-Jul-2026	19.272404	6.986100	10.335000	1.861620	25.110443	0.864393	0.012741	0.126877	0.033619	0.001850	0.001394	0.088111	0.000304	0.007602	0.003775	0.001092	0.010916
26-Jul-2026	18.814788	7.301560	10.909200	1.912900	26.109318	0.922079	0.013324	0.132667	0.033927	0.001953	0.001401	0.086938	0.000323	0.007825	0.003963	0.001139	0.011388
27-Jul-2026	17.781842	7.110520	10.561500	1.883410	25.510851	0.887041	0.012968	0.129107	0.033633	0.001893	0.001396	0.086120	0.000312	0.007681	0.003848	0.001110	0.011097
28-Jul-2026	18.333295	7.193630	10.713600	1.896460	25.772116	0.902257	0.013118	0.130606	0.033726	0.001918	0.001398	0.087019	0.000317	0.007741	0.003898	0.001122	0.011223
29-Jul-2026	18.400276	7.328270	10.963400	1.918660	26.199732	0.926945	0.013351	0.132958	0.033807	0.001957	0.001401	0.086314	0.000325	0.007827	0.003977	0.001143	0.011426
30-Jul-2026	18.184358	7.166360	10.667400	1.893850	25.693275	0.897258	0.013054	0.129951	0.033548	0.001909	0.001397	0.087128	0.000315	0.007706	0.003879	0.001118	0.011178
31-Jul-2026	18.693729	7.340170	10.981600	1.921710	26.242006	0.928997	0.013381	0.133213	0.033745	0.001967	0.001401	0.088933	0.000326	0.007834	0.003983	0.001144	0.011438
1-Aug-2026	17.831186	7.238010	10.794100	1.907860	25.929878	0.910059	0.013205	0.131371	0.033488	0.001963	0.001401	0.088524	0.000319	0.007750	0.003920	0.001128	0.011277
2-Aug-2026	17.198271	7.290480	10.894600	1.916470	26.096352	0.919538	0.013262	0.132018	0.033497	0.001951	0.001400	0.088127	0.000323	0.007779	0.003950	0.001136	0.011358
3-Aug-2026	15.993536	7.354250	11.012200	1.927380	26.300513	0.930999	0.013364	0.133014	0.033512	0.001971	0.001401	0.087198	0.000327	0.007818	0.003987	0.001145	0.011453
4-Aug-2026	16.387628	7.406190	11.109000	1.936470	26.467640	0.940287	0.013443	0.133779	0.033515	0.001986	0.001402	0.087775	0.000330	0.007849	0.004017	0.001153	0.011531
5-Aug-2026	17.105616	7.379330	11.063000	1.933060	26.386528	0.935317	0.013376	0.133105	0.033464	0.001977	0.001401	0.087015	0.000328	0.007820	0.004000	0.001149	0.011491
6-Aug-2026	16.924797	7.604580	11.473200	1.967880	27.092366	0.976363	0.013784	0.137168	0.033714	0.002046	0.001406	0.087174	0.000342	0.007987	0.004136	0.001183	0.011830
7-Aug-2026	17.312597	7.642630	11.551500	1.977880	27.228557	0.982584	0.013788	0.137158	0.033510	0.002054	0.001406	0.087152	0.000345	0.007982	0.004153	0.001189	0.011887
8-Aug-2026	17.353342	7.397920	11.100800	1.938810	26.456626	0.938018	0.013367	0.132946	0.033210	0.001981	0.001401	0.087857	0.000330	0.007811	0.004007	0.001151	0.011513
9-Aug-2026	17.726691	7.803590	11.842300	2.001460	27.727577	1.012100	0.014094	0.140200	0.033751	0.002104	0.001410	0.088876	0.000355	0.008110	0.004252	0.001213	0.012126
10-Aug-2026	17.862101	7.948710	12.111700	2.025940	28.190750	1.038240	0.014323	0.142467	0.033823	0.002147	0.001412	0.088250	0.000364	0.008200	0.004337	0.001235	0.012346
11-Aug-2026	17.658193	7.798090	11.836000	2.003970	27.724179	1.010460	0.014043	0.139639	0.033541	0.002103	0.001409	0.088309	0.000354	0.008083	0.004245	0.001211	0.012114
12-Aug-2026	16.603843	7.805220	11.841200	2.003790	27.741242	1.011200	0.014059	0.139726	0.033637	0.002111	0.001410	0.087859	0.000355	0.008105	0.004251	0.001212	0.012120
13-Aug-2026	16.571425	7.666770	11.594400	1.984440	27.315849	0.985974	0.013790	0.137047	0.033283	0.002066	0.001407	0.087903	0.000346	0.007982	0.004165	0.001191	0.011909
14-Aug-2026	17.234857	7.706910	11.668900	1.990920	27.442763	0.993291	0.013855	0.137694	0.033314	0.002078	0.001407	0.088133	0.000349	0.008008	0.004188	0.001197	0.011969
15-Aug-2026	17.007503	7.743250	11.737100	1.998300	27.563895	0.999496	0.013896	0.138078	0.033229	0.002089	0.001408	0.088359	0.000351	0.008023	0.004208	0.001202	0.012020
16-Aug-2026	16.072889	7.739920	11.731200	1.999960	27.562416	0.998364	0.013866	0.137743	0.033090	0.002101	0.001409	0.089521	0.000351	0.008009	0.004204	0.001201	0.012011
17-Aug-2026	15.483942	7.715280	11.685400	1.997150	27.489318	0.993581	0.013812	0.137182	0.032986	0.002097	0.001408	0.089931	0.000349	0.007986	0.004188	0.001197	0.011970
18-Aug-2026	14.921829	7.729850	11.718000	2.000860	27.540977	0.996128	0.013811	0.137157	0.032930	0.002086	0.001407	0.089384	0.000351	0.007981	0.004194	0.001199	0.011994
19-Aug-2026	15.042142	7.929450	12.083600	2.032300	28.168848	1.032390	0.014157	0.140606	0.033121	0.002147	0.001412	0.089078	0.000363	0.008123	0.004314	0.001229	0.012295
20-Aug-2026	15.027117	7.911690	12.048200	2.030000	28.115030	1.028900	0.014124	0.140251	0.033075	0.002146	0.001411	0.090132	0.000362	0.008111	0.004303	0.001226	0.012262

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
21-Aug-2026	15.335130	7.883990	12.004900	2.027820	28.036886	1.023620	0.014037	0.139370	0.032885	0.002132	0.001410	0.089433	0.000360	0.008069	0.004283	0.001222	0.012223
22-Aug-2026	14.824558	7.856400	11.954900	2.024270	27.953375	1.018400	0.013977	0.138754	0.032806	0.002125	0.001410	0.088576	0.000359	0.008044	0.004265	0.001218	0.012178
23-Aug-2026	15.280187	7.913620	12.057300	2.032370	28.129609	1.028910	0.014091	0.139889	0.032898	0.002143	0.001411	0.089471	0.000362	0.008093	0.004301	0.001226	0.012264
24-Aug-2026	15.507421	7.882980	12.004300	2.028640	28.037741	1.023170	0.014018	0.139143	0.032774	0.002132	0.001410	0.088875	0.000360	0.008060	0.004281	0.001222	0.012218
25-Aug-2026	15.701042	8.413970	12.976800	2.114450	29.716988	1.119160	0.014919	0.148066	0.033316	0.002297	0.001421	0.089197	0.000393	0.008430	0.004598	0.001302	0.013017
26-Aug-2026	15.192929	8.040370	12.294200	2.055380	28.540859	1.051310	0.014263	0.141544	0.032835	0.002182	0.001413	0.088191	0.000370	0.008159	0.004373	0.001245	0.012451
27-Aug-2026	15.431526	8.172360	12.537600	2.077020	28.959551	1.075120	0.014479	0.143676	0.032937	0.002221	0.001416	0.089024	0.000378	0.008247	0.004451	0.001265	0.012649
28-Aug-2026	15.311162	8.127830	12.457800	2.070710	28.822375	1.066910	0.014389	0.142769	0.032830	0.002207	0.001414	0.088654	0.000375	0.008208	0.004424	0.001258	0.012581
29-Aug-2026	15.198082	8.170620	12.536000	2.077610	28.957636	1.074620	0.014460	0.143465	0.032844	0.002220	0.001415	0.088326	0.000378	0.008237	0.004449	0.001264	0.012644
30-Aug-2026	15.371253	8.159290	12.516400	2.076040	28.922880	1.072540	0.014435	0.143202	0.032798	0.002216	0.001415	0.089520	0.000377	0.008226	0.004442	0.001263	0.012626
31-Aug-2026	14.449528	8.045920	12.311000	2.061450	28.579713	1.050990	0.014188	0.140675	0.032447	0.002183	0.001413	0.089661	0.000371	0.008124	0.004370	0.001245	0.012448
1-Sep-2026	13.325439	8.122560	12.451500	2.074080	28.823094	1.064770	0.014313	0.141908	0.032501	0.002208	0.001414	0.089665	0.000375	0.008175	0.004415	0.001256	0.012563
2-Sep-2026	13.139180	8.417470	12.994000	2.119650	29.747141	1.118840	0.014835	0.147135	0.032881	0.002295	0.001419	0.089920	0.000393	0.008387	0.004593	0.001301	0.013012
3-Sep-2026	12.866180	8.601430	13.338300	2.147190	30.319899	1.153380	0.015159	0.150373	0.033036	0.002349	0.001420	0.089135	0.000405	0.008510	0.004704	0.001329	0.013292
4-Sep-2026	13.027761	8.631160	13.385500	2.151670	30.412584	1.158280	0.015223	0.151012	0.033150	0.002362	0.001423	0.089970	0.000407	0.008545	0.004723	0.001333	0.013334
5-Sep-2026	11.849837	8.608540	13.351500	2.147680	30.339671	1.154970	0.015170	0.150475	0.032975	0.002356	0.001419	0.089909	0.000406	0.008514	0.004709	0.001330	0.013296
6-Sep-2026	11.633632	8.404820	12.978600	2.116590	29.702953	1.117630	0.014800	0.146772	0.032711	0.002296	0.001416	0.089117	0.000393	0.008367	0.004586	0.001299	0.012986
7-Sep-2026	11.534541	8.450960	13.062600	2.123690	29.847403	1.126050	0.014880	0.147559	0.032706	0.002312	0.001416	0.089630	0.000396	0.008397	0.004614	0.001305	0.013053
8-Sep-2026	11.067891	8.409230	12.986700	2.117520	29.717795	1.118440	0.014798	0.146734	0.032605	0.002302	0.001414	0.089845	0.000393	0.008363	0.004588	0.001299	0.012987
9-Sep-2026	11.136407	8.376310	12.929600	2.112150	29.613480	1.112770	0.014737	0.146124	0.032545	0.002291	0.001413	0.089208	0.000392	0.008335	0.004568	0.001294	0.012938
10-Sep-2026	10.922975	8.733600	13.585200	2.166300	30.728623	1.178540	0.015382	0.152573	0.032989	0.002399	0.001418	0.089683	0.000413	0.008596	0.004785	0.001348	0.013479
11-Sep-2026	10.073310	8.599220	13.340800	2.146000	30.309480	1.153970	0.015131	0.150053	0.032746	0.002359	0.001415	0.089246	0.000405	0.008491	0.004703	0.001327	0.013272
12-Sep-2026	8.876644	8.594670	13.334700	2.145270	30.295113	1.153350	0.015117	0.149903	0.032687	0.002359	0.001414	0.089583	0.000405	0.008483	0.004700	0.001326	0.013264
13-Sep-2026	8.658134	8.667360	13.469700	2.156260	30.521877	1.166880	0.015244	0.151173	0.032747	0.002381	0.001415	0.089836	0.000410	0.008533	0.004744	0.001337	0.013373
14-Sep-2026	8.624414	8.653040	13.448700	2.153920	30.476483	1.164810	0.015206	0.150782	0.032622	0.002379	0.001413	0.089687	0.000409	0.008511	0.004735	0.001335	0.013349
15-Sep-2026	8.408495	8.971220	14.026500	2.202490	31.470990	1.222760	0.015788	0.156600	0.033114	0.002477	0.001419	0.090247	0.000428	0.008755	0.004929	0.001383	0.013830
16-Sep-2026	8.005818	8.777210	13.680300	2.172560	30.863295	1.188040	0.015424	0.152976	0.032719	0.002416	0.001413	0.090231	0.000417	0.008595	0.004810	0.001354	0.013536
17-Sep-2026	7.691891	8.724310	13.583800	2.164400	30.697601	1.178390	0.015327	0.151998	0.032630	0.002400	0.001412	0.090211	0.000414	0.008555	0.004778	0.001346	0.013455
18-Sep-2026	7.075764	8.811410	13.740200	2.177980	30.971012	1.194010	0.015484	0.153553	0.032756	0.002429	0.001414	0.090178	0.000419	0.008624	0.004831	0.001358	0.013585
19-Sep-2026	6.966230	8.890440	13.895400	2.189340	31.215131	1.209660	0.015615	0.154881	0.032731	0.002451	0.001413	0.089920	0.000424	0.008664	0.004878	0.001371	0.013705
20-Sep-2026	7.096446	9.044310	14.174400	2.212870	31.696241	1.237630	0.015895	0.157680	0.032967	0.002499	0.001416	0.090071	0.000433	0.008782	0.004972	0.001394	0.013937
21-Sep-2026	7.208619	9.288940	14.621000	2.250030	32.460107	1.282430	0.016338	0.162102	0.033306	0.002574	0.001420	0.090773	0.000448	0.008965	0.005121	0.001431	0.014307
22-Sep-2026	7.662444	9.028330	14.146800	2.210360	31.646002	1.234900	0.015860	0.157299	0.032884	0.002496	0.001414	0.090045	0.000433	0.008766	0.004962	0.001391	0.013910
23-Sep-2026	7.430213	9.049010	14.184900	2.213810	31.711848	1.238670	0.015890	0.157591	0.032860	0.002505	0.001414	0.090167	0.000434	0.008778	0.004975	0.001394	0.013937
24-Sep-2026	7.129488	9.115610	14.309100	2.223770	31.919163	1.251140	0.016007	0.158753	0.032907	0.002525	0.001414	0.090288	0.000438	0.008823	0.005015	0.001404	0.014037
25-Sep-2026	7.086139	9.159200	14.390400	2.230360	32.055145	1.259310	0.016081	0.159491	0.032928	0.002539	0.001414	0.090392	0.000441	0.008852	0.005041	0.001410	0.014102
26-Sep-2026	6.345072	9.128700	14.337500	2.225530	31.959096	1.254040	0.016020	0.158886	0.032826	0.002530	0.001412	0.090589	0.000439	0.008824	0.005023	0.001405	0.014055
27-Sep-2026	5.671199	9.169130	14.413500	2.231460	32.084470	1.261710	0.016091	0.159593	0.032846	0.002543	0.001412	0.090312	0.000442	0.008850	0.005047	0.001412	0.014115
28-Sep-2026	4.920446	9.223120	14.513600	2.239540	32.252556	1.271780	0.016187	0.160548	0.032896	0.002560	0.001413	0.090427	0.000445	0.008888	0.005080	0.001420	0.014197
29-Sep-2026	4.842631	9.240190	14.545800	2.242130	32.305846	1.274980	0.016215	0.160829	0.032900	0.002564	0.001413	0.090437	0.000446	0.008898	0.005090	0.001422	0.014222
30-Sep-2026	4.231673	9.269190	14.600700	2.246530	32.396378	1.280580	0.016260	0.161255	0.032854	0.002577	0.001412	0.090959	0.000448	0.008914	0.005108	0.001426	0.014261
1-Oct-2026	3.012394	9.253110	14.575200	2.243510	32.343790	1.278090	0.016229	0.160961	0.032804	0.002570	0.001410	0.090395	0.000447	0.008898	0.005098	0.001424	0.014238
2-Oct-2026	2.710979	9.220420	14.517100	2.237970	32.239349	1.272390	0.016170	0.160371	0.032741	0.002561	0.001409	0.090491	0.000445	0.008871	0.005078	0.001419	0.014188
3-Oct-2026	2.647747	9.199750	14.478300	2.234990	32.175465	1.268470	0.016133	0.159996	0.032717	0.002555	0.001409	0.090767	0.000444	0.008857	0.005066	0.001416	0.014157
4-Oct-2026	2.598817	9.167510	14.419800	2.229650	32.072971	1.262730	0.016075	0.159422	0.032664	0.002546	0.001408	0.090380	0.000442	0.008833	0.005047	0.001411	0.014107
5-Oct-2026	2.645301	9.152380	14.392500	2.227070	32.024567	1.260080	0.016049	0.159160	0.032645	0.002542	0.001407	0.090508	0.000441	0.008822	0.005038	0.001408	0.014084
6-Oct-2026	2.922641	9.138550	14.368500	2.224440	31.979203	1.257770	0.016025	0.158925	0.032622	0.002537	0.001406	0.090532	0.000440	0.008811	0.005030	0.001406	0.014064
7-Oct-2026	2.802429	9.128840	14.351300	2.222680	31.947710	1.256120	0.016008	0.158756	0.032604	0.002535	0.001405	0.090293	0.000440	0.008804	0.005024	0.001405	0.014049
8-Oct-2026	2.653793	9.110750	14.319400	2.219340	31.888785	1.253060	0.015977	0.158447	0.032576	0.002529	0.001404	0.090223	0.000439	0.008790	0.005013	0.001402	0.014022
9-Oct-2026	2.158882	9.078680	14.261900	2.213730	31.785604	1.247470	0.015921	0.157901	0.032536	0.002520	0.001403	0.090083	0.000437	0.008767	0.004995	0.001397	0.013974
10-Oct-2026	1.420338	9.065210	14.238600	2.211110	31.741180	1.245280	0.015898	0.157666	0.032505	0.002516	0.001402	0.089722	0.000436	0.008756	0.004987	0.001395	0.013953
11-Oct-2026	0.905307	9.036870	14.188600	2.205940	31.649125	1.240480	0.015848	0.157178	0.032457	0.002508	0.001400	0.089602	0.000435	0.008734	0.004970	0.001391	0.013910
12-Oct-2026	0.856234	9.003670	14.129500	2.200140	31.542341	1.234750	0.015791	0.156610	0.032409	0.002499	0.001399	0.089619	0.000433	0.008709	0.004951	0.001386	0.013860

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
13-Oct-2026	0.858394	8.986020	14.096900	2.197280	31.486491	1.231570	0.015759	0.156289	0.032380	0.002495	0.001398	0.089732	0.000432	0.008696	0.004940	0.001383	0.013832
14-Oct-2026	0.855071	8.979650	14.087700	2.195440	31.463008	1.230780	0.015749	0.156198	0.032370	0.002492	0.001397	0.089781	0.000431	0.008690	0.004937	0.001382	0.013824
15-Oct-2026	0.820473	8.980870	14.090000	2.195600	31.466713	1.231010	0.015751	0.156222	0.032370	0.002492	0.001397	0.089532	0.000431	0.008691	0.004938	0.001383	0.013826
16-Oct-2026	0.808110	8.980800	14.089700	2.195640	31.466703	1.230970	0.015751	0.156220	0.032369	0.002492	0.001397	0.089558	0.000431	0.008691	0.004937	0.001383	0.013826
17-Oct-2026	0.813353	9.060740	14.213400	2.215730	31.749044	1.241650	0.015891	0.157610	0.032673	0.002514	0.001410	0.090408	0.000435	0.008770	0.004981	0.001395	0.013949
18-Oct-2026	0.814170	9.134500	14.329400	2.233690	32.007182	1.251800	0.016021	0.158892	0.032935	0.002535	0.001422	0.091441	0.000439	0.008841	0.005022	0.001406	0.014062
19-Oct-2026	0.811543	9.211990	14.446300	2.254090	32.284682	1.261730	0.016155	0.160219	0.033227	0.002558	0.001436	0.091894	0.000442	0.008920	0.005064	0.001418	0.014180
20-Oct-2026	0.809665	9.267800	14.533900	2.268240	32.482309	1.269380	0.016253	0.161189	0.033433	0.002574	0.001445	0.092525	0.000445	0.008975	0.005094	0.001427	0.014266
21-Oct-2026	0.809046	9.333540	14.635700	2.284210	32.712226	1.278190	0.016368	0.162329	0.033671	0.002592	0.001455	0.093154	0.000448	0.009038	0.005130	0.001437	0.014367
22-Oct-2026	0.806545	9.382620	14.714000	2.295810	32.882548	1.285110	0.016454	0.163187	0.033843	0.002605	0.001462	0.093773	0.000450	0.009085	0.005157	0.001444	0.014443
23-Oct-2026	0.802662	9.305260	14.597500	2.281520	32.630534	1.275260	0.016320	0.161858	0.033607	0.002588	0.001464	0.094440	0.000447	0.009006	0.005116	0.001432	0.014325
24-Oct-2026	0.803546	9.316760	14.557100	2.296600	32.721349	1.270100	0.016324	0.161854	0.033830	0.002605	0.001474	0.095085	0.000445	0.009064	0.005112	0.001433	0.014328
25-Oct-2026	0.804906	9.379130	14.652700	2.312530	32.942686	1.277070	0.016433	0.162935	0.034066	0.002623	0.001484	0.095793	0.000448	0.009126	0.005146	0.001442	0.014424
26-Oct-2026	0.807996	9.437310	14.741800	2.327410	33.149237	1.283700	0.016535	0.163942	0.034286	0.002640	0.001494	0.096456	0.000450	0.009184	0.005178	0.001451	0.014513
27-Oct-2026	0.809326	9.500150	14.837500	2.343660	33.373066	1.291880	0.016645	0.165028	0.034526	0.002658	0.001505	0.097194	0.000453	0.009247	0.005212	0.001461	0.014609
28-Oct-2026	0.808506	9.570470	14.944000	2.362060	33.624427	1.300930	0.016767	0.166239	0.034797	0.002679	0.001518	0.098048	0.000457	0.009319	0.005250	0.001472	0.014716
29-Oct-2026	0.805978	9.650260	15.064200	2.383130	33.910429	1.311100	0.016906	0.167611	0.035106	0.002702	0.001532	0.099041	0.000460	0.009400	0.005293	0.001484	0.014838
30-Oct-2026	0.805144	9.736970	15.195400	2.405840	34.220463	1.322240	0.017057	0.169103	0.035439	0.002728	0.001548	0.100097	0.000464	0.009488	0.005340	0.001497	0.014970
31-Oct-2026	0.807457	9.819920	15.323100	2.426870	34.514191	1.333250	0.017202	0.170537	0.035748	0.002752	0.001562	0.101017	0.000468	0.009570	0.005385	0.001510	0.015097
1-Nov-2026	0.809093	9.889230	15.432600	2.443610	34.756193	1.342850	0.017323	0.171744	0.035995	0.002771	0.001572	0.101679	0.000471	0.009636	0.005423	0.001520	0.015204
2-Nov-2026	0.809622	9.891500	15.445600	2.441200	34.751937	1.344620	0.017330	0.171815	0.035962	0.002768	0.001569	0.101322	0.000472	0.009631	0.005426	0.001521	0.015210
3-Nov-2026	0.810062	9.944200	15.528100	2.454120	34.936734	1.351810	0.017422	0.172732	0.036153	0.002783	0.001577	0.101852	0.000474	0.009682	0.005455	0.001529	0.015291
4-Nov-2026	0.812047	10.002100	15.618300	2.468470	35.140403	1.359660	0.017524	0.173739	0.036366	0.002799	0.001586	0.102451	0.000477	0.009738	0.005487	0.001538	0.015380
5-Nov-2026	0.814107	10.065100	15.716600	2.484070	35.361955	1.368200	0.017634	0.174834	0.036596	0.002817	0.001596	0.103102	0.000480	0.009800	0.005521	0.001548	0.015477
6-Nov-2026	0.816464	10.129400	15.818100	2.499590	35.586423	1.377100	0.017747	0.175955	0.036826	0.002835	0.001606	0.103718	0.000483	0.009862	0.005557	0.001558	0.015576
7-Nov-2026	0.816352	10.188400	15.910100	2.514190	35.793869	1.385110	0.017851	0.176981	0.037042	0.002851	0.001615	0.104326	0.000486	0.009919	0.005589	0.001567	0.015667
8-Nov-2026	0.813751	10.253800	16.012100	2.530330	36.023638	1.393990	0.017965	0.178118	0.037281	0.002869	0.001626	0.104996	0.000489	0.009983	0.005625	0.001577	0.015767
9-Nov-2026	0.810199	10.327200	16.126900	2.548400	36.281330	1.403990	0.018094	0.179396	0.037548	0.002890	0.001637	0.105741	0.000493	0.010055	0.005665	0.001588	0.015880
10-Nov-2026	0.808116	10.404300	16.247500	2.567310	36.551720	1.414510	0.018229	0.180737	0.037829	0.002911	0.001649	0.106517	0.000496	0.010130	0.005708	0.001600	0.015999
11-Nov-2026	0.809103	10.479800	16.365700	2.585840	36.816550	1.424820	0.018362	0.182052	0.038103	0.002932	0.001661	0.107278	0.000500	0.010203	0.005749	0.001612	0.016115
12-Nov-2026	0.811305	10.549900	16.475800	2.602940	37.062007	1.434450	0.018485	0.183274	0.038357	0.002951	0.001672	0.107969	0.000503	0.010271	0.005788	0.001622	0.016223
13-Nov-2026	0.813860	10.609100	16.569500	2.617130	37.268264	1.442690	0.018589	0.184308	0.038569	0.002968	0.001681	0.108522	0.000506	0.010328	0.005820	0.001631	0.016315
14-Nov-2026	0.814373	10.659000	16.649600	2.628770	37.440798	1.449810	0.018677	0.185185	0.038742	0.002981	0.001688	0.108945	0.000509	0.010374	0.005848	0.001639	0.016392
15-Nov-2026	0.813056	10.705300	16.724600	2.639380	37.600101	1.456510	0.018759	0.185999	0.038901	0.002993	0.001694	0.109312	0.000511	0.010418	0.005874	0.001646	0.016464
16-Nov-2026	0.810587	10.751500	16.799200	2.649960	37.759031	1.463170	0.018841	0.186808	0.039057	0.003005	0.001701	0.109681	0.000513	0.010460	0.005900	0.001654	0.016536
17-Nov-2026	0.806759	10.795000	16.869700	2.659920	37.908666	1.469480	0.018918	0.187572	0.039205	0.003016	0.001707	0.110026	0.000516	0.010501	0.005924	0.001660	0.016603
18-Nov-2026	0.805469	10.835900	16.936800	2.669040	38.048349	1.475520	0.018990	0.188293	0.039339	0.003027	0.001712	0.110319	0.000518	0.010538	0.005947	0.001667	0.016667
19-Nov-2026	0.806804	10.785900	16.861400	2.655840	37.869141	1.469140	0.018903	0.187433	0.039146	0.003012	0.001703	0.109697	0.000515	0.010487	0.005920	0.001659	0.016591
20-Nov-2026	0.805729	10.832800	16.937700	2.666440	38.029902	1.475990	0.018986	0.188257	0.039303	0.003024	0.001709	0.110052	0.000518	0.010530	0.005946	0.001666	0.016664
21-Nov-2026	0.804591	10.880200	17.014200	2.677340	38.193146	1.482820	0.019070	0.189089	0.039465	0.003036	0.001715	0.110435	0.000520	0.010574	0.005973	0.001674	0.016737
22-Nov-2026	0.806283	10.923700	17.083200	2.687720	38.344510	1.488890	0.019146	0.189848	0.039619	0.003048	0.001722	0.110836	0.000522	0.010616	0.005997	0.001680	0.016804
23-Nov-2026	0.807522	10.963900	17.147200	2.697310	38.484381	1.494530	0.019217	0.190551	0.039761	0.003059	0.001728	0.111203	0.000524	0.010654	0.006019	0.001687	0.016866
24-Nov-2026	0.807153	10.998600	17.200900	2.706010	38.606853	1.499180	0.019278	0.191152	0.039889	0.003069	0.001733	0.111575	0.000526	0.010688	0.006038	0.001692	0.016920
25-Nov-2026	0.805175	11.050700	17.282800	2.718700	38.789205	1.506340	0.019369	0.192058	0.040077	0.003083	0.001741	0.112086	0.000528	0.010739	0.006066	0.001700	0.017000
26-Nov-2026	0.804865	11.107600	17.371800	2.732690	38.988895	1.514100	0.019469	0.193048	0.040283	0.003099	0.001750	0.112662	0.000531	0.010794	0.006098	0.001709	0.017087
27-Nov-2026	0.805177	11.170700	17.470600	2.748170	39.210202	1.522720	0.019579	0.194145	0.040511	0.003116	0.001760	0.113296	0.000534	0.010855	0.006132	0.001718	0.017185
28-Nov-2026	0.803686	11.233600	17.569800	2.763400	39.429980	1.531410	0.019690	0.195240	0.040736	0.003134	0.001770	0.113902	0.000537	0.010915	0.006167	0.001728	0.017281
29-Nov-2026	0.803282	11.030300	17.255500	2.712240	38.711663	1.504260	0.019334	0.191720	0.039984	0.003076	0.001736	0.111692	0.000528	0.010715	0.006056	0.001697	0.016970
30-Nov-2026	0.804236	11.080800	17.335200	2.724440	38.888002	1.511260	0.019423	0.192601	0.040165	0.003090	0.001744	0.112175	0.000530	0.010764	0.006084	0.001705	0.017048
1-Dec-2026	0.803687	11.149100	17.440600	2.741720	39.129706	1.520350	0.019542	0.193782	0.040418	0.003109	0.001756	0.112959	0.000533	0.010831	0.006121	0.001715	0.017152
2-Dec-2026	0.801917	11.220500	17.549200	2.760230	39.384216	1.529610	0.019667	0.195014	0.040691	0.003130	0.001768	0.113773	0.000536	0.010903	0.006160	0.001726	0.017261
3-Dec-2026	0.802637	11.289100	17.656000	2.777250	39.625598	1.538890	0.019787	0.196205	0.040942	0.003149	0.001779	0.114487	0.000540	0.010970	0.006197	0.001737	0.017367
4-Dec-2026	0.803438	11.118900	17.392200	2.734610	39.025017	1.516060	0.019489	0.193256	0.040315	0.003101	0.001751	0.112662	0.000532	0.010803	0.006104	0.001711	0.017106

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
5-Dec-2026	0.802457	11.176200	17.483400	2.748240	39.224224	1.524110	0.019590	0.194258	0.040517	0.003116	0.001760	0.113183	0.000535	0.010857	0.006136	0.001719	0.017194
6-Dec-2026	0.801006	11.228300	17.566600	2.760520	39.404886	1.531470	0.019682	0.195169	0.040698	0.003130	0.001767	0.113643	0.000537	0.010906	0.006165	0.001727	0.017275
7-Dec-2026	0.800922	11.290200	17.664600	2.775350	39.620521	1.540090	0.019791	0.196248	0.040917	0.003147	0.001776	0.114220	0.000540	0.010966	0.006199	0.001737	0.017370
8-Dec-2026	0.801777	11.352500	17.763200	2.790320	39.837730	1.548770	0.019900	0.197335	0.041138	0.003164	0.001786	0.114806	0.000543	0.011025	0.006234	0.001747	0.017466
9-Dec-2026	0.802379	11.408500	17.852000	2.803700	40.032661	1.556580	0.019999	0.198311	0.041336	0.003179	0.001794	0.115324	0.000546	0.011079	0.006265	0.001755	0.017553
10-Dec-2026	0.801577	11.461700	17.936300	2.816450	40.218006	1.564000	0.020092	0.199239	0.041524	0.003194	0.001802	0.115821	0.000548	0.011129	0.006294	0.001763	0.017635
11-Dec-2026	0.800624	11.505700	18.006200	2.826920	40.370989	1.570170	0.020170	0.200007	0.041679	0.003206	0.001808	0.116221	0.000551	0.011171	0.006318	0.001770	0.017703
12-Dec-2026	0.800510	11.539400	18.060500	2.834760	40.487423	1.575000	0.020229	0.200599	0.041795	0.003215	0.001813	0.116504	0.000552	0.011203	0.006337	0.001776	0.017755
13-Dec-2026	0.799899	11.579000	18.124100	2.843960	40.624190	1.580660	0.020299	0.201292	0.041931	0.003225	0.001819	0.116836	0.000554	0.011240	0.006359	0.001782	0.017816
14-Dec-2026	0.799933	11.613100	18.180000	2.851550	40.740594	1.585700	0.020359	0.201893	0.042044	0.003234	0.001823	0.117080	0.000556	0.011271	0.006378	0.001787	0.017870
15-Dec-2026	0.800516	11.652300	18.243700	2.860430	40.875044	1.591410	0.020429	0.202582	0.042175	0.003244	0.001828	0.117380	0.000558	0.011307	0.006400	0.001793	0.017930
16-Dec-2026	0.799860	11.697600	18.316200	2.871020	41.031768	1.597840	0.020508	0.203374	0.042332	0.003256	0.001835	0.117770	0.000560	0.011350	0.006425	0.001800	0.018000
17-Dec-2026	0.799577	11.737900	18.380500	2.880600	41.171847	1.603520	0.020579	0.204080	0.042474	0.003267	0.001840	0.118134	0.000562	0.011388	0.006448	0.001806	0.018063
18-Dec-2026	0.799954	11.785400	18.455300	2.892120	41.337894	1.610080	0.020663	0.204907	0.042644	0.003280	0.001848	0.118595	0.000564	0.011434	0.006474	0.001814	0.018136
19-Dec-2026	0.799387	11.827100	18.520900	2.902210	41.483569	1.615830	0.020736	0.205632	0.042792	0.003291	0.001854	0.118997	0.000566	0.011474	0.006497	0.001820	0.018200
20-Dec-2026	0.799518	11.860400	18.575100	2.909800	41.597975	1.620670	0.020795	0.206218	0.042905	0.003300	0.001859	0.119257	0.000568	0.011505	0.006515	0.001825	0.018252
21-Dec-2026	0.800334	11.909800	18.654800	2.921150	41.768066	1.627790	0.020882	0.207084	0.043073	0.003313	0.001865	0.119656	0.000571	0.011551	0.006543	0.001833	0.018329
22-Dec-2026	0.799701	11.927100	18.684300	2.924660	41.825719	1.630510	0.020913	0.207393	0.043126	0.003317	0.001867	0.119736	0.000572	0.011566	0.006553	0.001836	0.018356
23-Dec-2026	0.799368	11.960800	18.738700	2.932430	41.941864	1.635370	0.020972	0.207985	0.043241	0.003326	0.001872	0.120011	0.000573	0.011597	0.006571	0.001841	0.018408
24-Dec-2026	0.799883	11.998500	18.798800	2.941350	42.072734	1.640680	0.021039	0.208643	0.043373	0.003336	0.001877	0.120348	0.000575	0.011633	0.006592	0.001847	0.018466
25-Dec-2026	0.799403	12.023200	18.838500	2.947090	42.158047	1.644210	0.021082	0.209076	0.043458	0.003343	0.001881	0.120555	0.000576	0.011656	0.006606	0.001850	0.018505
26-Dec-2026	0.799341	12.045200	18.873700	2.952210	42.234065	1.647340	0.021121	0.209460	0.043533	0.003348	0.001884	0.120742	0.000577	0.011676	0.006618	0.001854	0.018539
27-Dec-2026	0.799897	12.049700	18.881800	2.952990	42.248514	1.648120	0.021129	0.209542	0.043545	0.003349	0.001884	0.120746	0.000578	0.011680	0.006621	0.001855	0.018546
28-Dec-2026	0.799334	12.079000	18.928100	2.960090	42.350914	1.652180	0.021181	0.210053	0.043650	0.003357	0.001888	0.121028	0.000579	0.011708	0.006637	0.001859	0.018591
29-Dec-2026	0.799065	12.113100	18.981600	2.968390	42.470241	1.656860	0.021240	0.210646	0.043772	0.003367	0.001894	0.121363	0.000581	0.011741	0.006656	0.001864	0.018643
30-Dec-2026	0.799539	12.152900	19.043900	2.978200	42.610019	1.662290	0.021310	0.211338	0.043917	0.003378	0.001900	0.121769	0.000583	0.011780	0.006678	0.001870	0.018705
31-Dec-2026	0.799169	12.209600	19.132100	2.992260	42.809498	1.669940	0.021409	0.212321	0.044124	0.003394	0.001909	0.122360	0.000585	0.011835	0.006709	0.001879	0.018792
1-Jan-2027	0.798907	12.263200	19.215500	3.005590	42.998230	1.677190	0.021503	0.213252	0.044320	0.003409	0.001918	0.122921	0.000588	0.011888	0.006738	0.001887	0.018874
2-Jan-2027	0.799278	12.309500	19.287600	3.017070	43.161116	1.683450	0.021584	0.214055	0.044489	0.003422	0.001925	0.123402	0.000590	0.011933	0.006763	0.001895	0.018945
3-Jan-2027	0.799118	12.354000	19.357000	3.028090	43.317613	1.689490	0.021662	0.214828	0.044652	0.003435	0.001932	0.123862	0.000592	0.011976	0.006788	0.001901	0.019014
4-Jan-2027	0.798705	12.391500	19.415500	3.037370	43.449465	1.694570	0.021728	0.215479	0.044788	0.003445	0.001938	0.124249	0.000594	0.012013	0.006808	0.001907	0.019071
5-Jan-2027	0.798781	12.420000	19.460000	3.044440	43.549744	1.698440	0.021778	0.215975	0.044892	0.003453	0.001943	0.124545	0.000595	0.012041	0.006824	0.001912	0.019115
6-Jan-2027	0.798724	12.456100	19.516400	3.053340	43.676536	1.703350	0.021841	0.216602	0.045024	0.003463	0.001948	0.124913	0.000597	0.012076	0.006844	0.001917	0.019171
7-Jan-2027	0.798103	12.500800	19.586300	3.064330	43.833409	1.709450	0.021919	0.217379	0.045186	0.003476	0.001956	0.125366	0.000599	0.012119	0.006868	0.001924	0.019239
8-Jan-2027	0.798321	12.543300	19.652800	3.074780	43.982564	1.715250	0.021994	0.218118	0.045340	0.003487	0.001962	0.125796	0.000601	0.012160	0.006892	0.001930	0.019305
9-Jan-2027	0.798439	12.591700	19.728300	3.086690	44.152464	1.721820	0.022079	0.218958	0.045515	0.003501	0.001970	0.126289	0.000604	0.012207	0.006918	0.001938	0.019379
10-Jan-2027	0.797908	12.652500	19.823200	3.101720	44.366175	1.730080	0.022185	0.220014	0.045737	0.003518	0.001980	0.126915	0.000606	0.012267	0.006952	0.001947	0.019473
11-Jan-2027	0.797881	12.704300	19.904100	3.114520	44.548230	1.737120	0.022276	0.220914	0.045925	0.003533	0.001988	0.127446	0.000609	0.012317	0.006980	0.001955	0.019552
12-Jan-2027	0.798038	12.754700	19.982900	3.126930	44.725184	1.743980	0.022364	0.221790	0.046108	0.003547	0.001996	0.127959	0.000611	0.012366	0.007008	0.001963	0.019630
13-Jan-2027	0.797777	12.811100	20.071100	3.140800	44.923131	1.751670	0.022463	0.222770	0.046313	0.003562	0.002005	0.128531	0.000614	0.012421	0.007039	0.001972	0.019717
14-Jan-2027	0.797660	12.870900	20.164400	3.155590	45.133357	1.759790	0.022568	0.223808	0.046530	0.003579	0.002014	0.129147	0.000617	0.012479	0.007071	0.001981	0.019809
15-Jan-2027	0.797869	12.933800	20.262400	3.171200	45.354700	1.768300	0.022678	0.224901	0.046761	0.003597	0.002024	0.129801	0.000620	0.012541	0.007106	0.001991	0.019905
16-Jan-2027	0.798095	12.992400	20.354100	3.185620	45.560406	1.776300	0.022781	0.225920	0.046973	0.003613	0.002033	0.130395	0.000623	0.012598	0.007138	0.002000	0.019996
17-Jan-2027	0.798280	13.047100	20.440100	3.198900	45.751679	1.783820	0.022877	0.226871	0.047169	0.003628	0.002042	0.130929	0.000625	0.012650	0.007168	0.002008	0.020080
18-Jan-2027	0.798274	13.100400	20.524200	3.211830	45.938015	1.791200	0.022970	0.227800	0.047360	0.003643	0.002050	0.131445	0.000628	0.012702	0.007198	0.002016	0.020162
19-Jan-2027	0.798181	13.153700	20.608200	3.224710	46.124145	1.798560	0.023064	0.228728	0.047550	0.003658	0.002058	0.131957	0.000630	0.012753	0.007227	0.002024	0.020244
20-Jan-2027	0.798146	13.208700	20.694900	3.238020	46.316290	1.806170	0.023161	0.229687	0.047746	0.003673	0.002066	0.132487	0.000633	0.012806	0.007257	0.002033	0.020329
21-Jan-2027	0.797884	13.261500	20.778200	3.250780	46.500678	1.813480	0.023253	0.230606	0.047935	0.003687	0.002074	0.132993	0.000636	0.012857	0.007286	0.002041	0.020410
22-Jan-2027	0.797953	13.309600	20.854200	3.262370	46.668511	1.820160	0.023338	0.231445	0.048106	0.003700	0.002082	0.133449	0.000638	0.012903	0.007313	0.002048	0.020484
23-Jan-2027	0.798081	13.362500	20.937600	3.275150	46.853230	1.827470	0.023431	0.232366	0.048294	0.003715	0.002090	0.133956	0.000641	0.012953	0.007342	0.002057	0.020566
24-Jan-2027	0.798105	13.422200	21.031600	3.289630	47.061930	1.835710	0.023535	0.233406	0.048508	0.003731	0.002099	0.134536	0.000643	0.013011	0.007375	0.002066	0.020658
25-Jan-2027	0.798053	13.485500	21.131300	3.305010	47.283325	1.844440	0.023647	0.234509	0.048735	0.003749	0.002109	0.135153	0.000646	0.013072	0.007410	0.002076	0.020755
26-Jan-2027	0.798107	13.551600	21.235300	3.321060	47.514470	1.853540	0.023763	0.235659	0.048972	0.003767	0.002119	0.135797	0.000650	0.013136	0.007446	0.002086	0.020857

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
27-Jan-2027	0.798127	13.620800	21.344200	3.337900	47.756610	1.863070	0.023884	0.236864	0.049220	0.003786	0.002129	0.136474	0.000653	0.013202	0.007484	0.002096	0.020964
28-Jan-2027	0.798149	13.693100	21.457900	3.355480	48.009537	1.873030	0.024011	0.238123	0.049480	0.003806	0.002141	0.137182	0.000656	0.013272	0.007524	0.002108	0.021075
29-Jan-2027	0.798218	13.768000	21.575700	3.373720	48.271675	1.883340	0.024142	0.239427	0.049749	0.003827	0.002152	0.137916	0.000660	0.013345	0.007565	0.002119	0.021191
30-Jan-2027	0.798237	13.845800	21.697900	3.392650	48.543895	1.894030	0.024279	0.240780	0.050028	0.003848	0.002164	0.138679	0.000664	0.013420	0.007608	0.002131	0.021310
31-Jan-2027	0.798204	13.925300	21.822900	3.412020	48.822172	1.904970	0.024418	0.242165	0.050314	0.003870	0.002176	0.139461	0.000668	0.013496	0.007652	0.002143	0.021433
1-Feb-2027	0.798174	14.006800	21.951100	3.431870	49.107420	1.916180	0.024561	0.243584	0.050607	0.003893	0.002189	0.140262	0.000672	0.013575	0.007697	0.002156	0.021559
2-Feb-2027	0.798115	14.090600	22.082700	3.452270	49.400676	1.927700	0.024708	0.245041	0.050908	0.003916	0.002202	0.141085	0.000676	0.013656	0.007743	0.002169	0.021687
3-Feb-2027	0.798034	14.176200	22.217300	3.473130	49.700321	1.939470	0.024859	0.246531	0.051215	0.003939	0.002215	0.141927	0.000680	0.013739	0.007790	0.002182	0.021819
4-Feb-2027	0.797974	14.263300	22.354200	3.494370	50.005276	1.951450	0.025011	0.248048	0.051529	0.003964	0.002229	0.142785	0.000684	0.013823	0.007838	0.002195	0.021954
5-Feb-2027	0.797952	14.352000	22.493600	3.515980	50.315750	1.963630	0.025167	0.249592	0.051848	0.003988	0.002242	0.143659	0.000688	0.013908	0.007887	0.002209	0.022090
6-Feb-2027	0.797944	14.444600	22.638700	3.538670	50.640409	1.976300	0.025329	0.251202	0.052182	0.004014	0.002257	0.144586	0.000693	0.013998	0.007938	0.002223	0.022233
7-Feb-2027	0.797945	14.541200	22.790400	3.562250	50.978722	1.989570	0.025499	0.252884	0.052530	0.004041	0.002272	0.145541	0.000697	0.014092	0.007991	0.002238	0.022382
8-Feb-2027	0.797944	14.633800	22.935800	3.584810	51.302846	2.002280	0.025661	0.254494	0.052863	0.004066	0.002286	0.146454	0.000702	0.014181	0.008042	0.002252	0.022524
9-Feb-2027	0.797938	14.725600	23.080000	3.607220	51.624355	2.014890	0.025822	0.256092	0.053193	0.004092	0.002300	0.147362	0.000706	0.014270	0.008092	0.002267	0.022665
10-Feb-2027	0.797933	14.819900	23.228100	3.630260	51.954701	2.027830	0.025988	0.257733	0.053533	0.004118	0.002315	0.148297	0.000711	0.014361	0.008144	0.002281	0.022811
11-Feb-2027	0.797930	14.914700	23.376900	3.653400	52.286707	2.040860	0.026154	0.259382	0.053875	0.004144	0.002330	0.149236	0.000715	0.014453	0.008196	0.002296	0.022957
12-Feb-2027	0.797920	15.010600	23.527600	3.676750	52.622325	2.054030	0.026322	0.261051	0.054219	0.004170	0.002345	0.150184	0.000720	0.014545	0.008249	0.002310	0.023104
13-Feb-2027	0.797942	15.114400	23.690500	3.702070	52.985781	2.068270	0.026504	0.262856	0.054592	0.004199	0.002361	0.151203	0.000725	0.014645	0.008306	0.002326	0.023264
14-Feb-2027	0.797951	15.218800	23.854400	3.727560	53.351436	2.082590	0.026688	0.264673	0.054969	0.004228	0.002377	0.152238	0.000730	0.014746	0.008363	0.002342	0.023425
15-Feb-2027	0.797963	15.322900	24.017900	3.753020	53.716218	2.096880	0.026870	0.266486	0.055344	0.004257	0.002393	0.153273	0.000735	0.014847	0.008421	0.002359	0.023585
16-Feb-2027	0.797971	15.443400	24.207000	3.782440	54.138258	2.113400	0.027082	0.268581	0.055778	0.004290	0.002412	0.154467	0.000741	0.014964	0.008487	0.002377	0.023771
17-Feb-2027	0.797969	15.591900	24.440000	3.818710	54.658422	2.133770	0.027342	0.271165	0.056313	0.004332	0.002435	0.155940	0.000748	0.015107	0.008569	0.002400	0.023999
18-Feb-2027	0.797966	15.739100	24.671000	3.854710	55.174228	2.153940	0.027600	0.273725	0.056844	0.004372	0.002458	0.157404	0.000755	0.015250	0.008649	0.002423	0.024226
19-Feb-2027	0.797962	15.882900	24.896500	3.889880	55.678127	2.173650	0.027853	0.276227	0.057363	0.004412	0.002480	0.158837	0.000762	0.015389	0.008729	0.002445	0.024447
20-Feb-2027	0.797954	16.018800	25.109600	3.923110	56.154311	2.192260	0.028091	0.278590	0.057853	0.004450	0.002501	0.160190	0.000768	0.015521	0.008803	0.002466	0.024657
21-Feb-2027	0.797950	16.156900	25.326300	3.956900	56.638294	2.211190	0.028333	0.280993	0.058351	0.004488	0.002523	0.161566	0.000775	0.015654	0.008879	0.002487	0.024869
22-Feb-2027	0.797914	16.305200	25.558900	3.993190	57.158041	2.231500	0.028593	0.283573	0.058886	0.004529	0.002546	0.163045	0.000782	0.015798	0.008961	0.002510	0.025098
23-Feb-2027	0.797899	16.475000	25.825200	4.034690	57.752928	2.254770	0.028891	0.286526	0.059498	0.004577	0.002572	0.164733	0.000790	0.015962	0.009054	0.002536	0.025359
24-Feb-2027	0.797890	16.642000	26.087200	4.075540	58.338148	2.277650	0.029184	0.289431	0.060101	0.004623	0.002598	0.166396	0.000798	0.016124	0.009146	0.002562	0.025616
25-Feb-2027	0.797891	16.812500	26.354700	4.117270	58.935730	2.301020	0.029483	0.292398	0.060716	0.004670	0.002625	0.168096	0.000806	0.016289	0.009240	0.002588	0.025879
26-Feb-2027	0.797888	16.988300	26.630300	4.160270	59.551777	2.325080	0.029791	0.295455	0.061350	0.004719	0.002652	0.169849	0.000815	0.016459	0.009336	0.002615	0.026149
27-Feb-2027	0.797892	17.159900	26.899300	4.202260	60.153177	2.348580	0.030092	0.298439	0.061970	0.004767	0.002679	0.171561	0.000823	0.016625	0.009430	0.002641	0.026413
28-Feb-2027	0.797894	17.334900	27.173700	4.245090	60.766526	2.372540	0.030399	0.301483	0.062601	0.004815	0.002706	0.173307	0.000831	0.016795	0.009527	0.002668	0.026683
1-Mar-2027	0.797899	17.530600	27.480600	4.293000	61.452482	2.399350	0.030742	0.304887	0.063308	0.004870	0.002737	0.175261	0.000841	0.016984	0.009634	0.002698	0.026984
2-Mar-2027	0.797908	17.721000	27.779200	4.339610	62.119851	2.425430	0.031076	0.308200	0.063995	0.004922	0.002766	0.177162	0.000850	0.017169	0.009739	0.002728	0.027277
3-Mar-2027	0.797916	17.934700	28.114200	4.391890	62.868749	2.454670	0.031451	0.311915	0.064766	0.004982	0.002800	0.179294	0.000860	0.017376	0.009856	0.002761	0.027606
4-Mar-2027	0.797921	18.172400	28.486900	4.450080	63.701912	2.487220	0.031868	0.316049	0.065624	0.005048	0.002837	0.181667	0.000872	0.017606	0.009987	0.002797	0.027972
5-Mar-2027	0.797925	18.430200	28.891200	4.513210	64.605608	2.522520	0.032320	0.320535	0.066555	0.005119	0.002877	0.184243	0.000884	0.017856	0.010129	0.002837	0.028369
6-Mar-2027	0.797931	18.704100	29.320600	4.580270	65.565690	2.560010	0.032800	0.325298	0.067544	0.005195	0.002920	0.186979	0.000897	0.018121	0.010279	0.002879	0.028790
7-Mar-2027	0.797934	18.983100	29.757900	4.648570	66.543612	2.598200	0.033289	0.330150	0.068551	0.005273	0.002963	0.189767	0.000911	0.018391	0.010433	0.002922	0.029220
8-Mar-2027	0.797975	17.580500	27.557500	4.305640	61.629134	2.405970	0.030829	0.305750	0.063494	0.004884	0.002745	0.175814	0.000843	0.017034	0.009661	0.002706	0.027060
9-Mar-2027	0.797973	17.695400	27.737700	4.333770	62.031879	2.421710	0.031031	0.307750	0.063908	0.004916	0.002763	0.176960	0.000849	0.017145	0.009725	0.002724	0.027237
10-Mar-2027	0.797972	17.807500	27.913500	4.361180	62.424667	2.437060	0.031228	0.309699	0.064313	0.004947	0.002780	0.178077	0.000854	0.017254	0.009786	0.002741	0.027410
11-Mar-2027	0.797975	17.914800	28.081800	4.387440	62.800734	2.451760	0.031416	0.311566	0.064700	0.004977	0.002797	0.179147	0.000859	0.017358	0.009845	0.002758	0.027575
12-Mar-2027	0.797977	18.020900	28.248200	4.413400	63.172569	2.466290	0.031602	0.313411	0.065083	0.005006	0.002814	0.180205	0.000864	0.017460	0.009904	0.002774	0.027738
13-Mar-2027	0.797977	18.127200	28.414800	4.439410	63.545109	2.480850	0.031788	0.315260	0.065466	0.005036	0.002830	0.181265	0.000869	0.017563	0.009962	0.002790	0.027902
14-Mar-2027	0.797977	18.234800	28.583500	4.465730	63.922172	2.495580	0.031977	0.317131	0.065855	0.005065	0.002847	0.182338	0.000875	0.017667	0.010021	0.002807	0.028068
15-Mar-2027	0.797978	18.344100	28.755000	4.492490	64.305292	2.510550	0.032169	0.319033	0.066249	0.005096	0.002864	0.183429	0.000880	0.017773	0.010081	0.002824	0.028236
16-Mar-2027	0.797980	18.454800	28.928600	4.519590	64.693307	2.525720	0.032363	0.320958	0.066649	0.005127	0.002881	0.184534	0.000885	0.017880	0.010142	0.002841	0.028406
17-Mar-2027	0.797980	18.578000	29.121700	4.549730	65.125054	2.542580	0.032579	0.323100	0.067093	0.005161	0.002901	0.185763	0.000891	0.018000	0.010210	0.002860	0.028596
18-Mar-2027	0.797980	18.712300	29.332300	4.582610	65.595801	2.560970	0.032814	0.325437	0.067578	0.005198	0.002922	0.187105	0.000898	0.018130	0.010284	0.002880	0.028803
19-Mar-2027	0.797979	18.852900	29.552700	4.617030	66.088621	2.580210	0.033061	0.327881	0.068086	0.005237	0.002943	0.188509	0.000904	0.018266	0.010361	0.002902	0.029019
20-Mar-2027	0.797979	19.016100	29.808700	4.657000	66.660728	2.602560	0.033347	0.330721	0.068675	0.005282	0.002969	0.190140	0.000912	0.018424	0.010451	0.002927	0.029270

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
21-Mar-2027	0.797979	19.185600	30.074400	4.698490	67.254825	2.625760	0.033644	0.333669	0.069287	0.005330	0.002995	0.191833	0.000920	0.018588	0.010544	0.002953	0.029531
22-Mar-2027	0.797979	19.363900	30.353800	4.742130	67.879750	2.650160	0.033957	0.336769	0.069931	0.005379	0.003023	0.193614	0.000929	0.018761	0.010642	0.002981	0.029806
23-Mar-2027	0.797980	19.553500	30.651100	4.788570	68.544421	2.676120	0.034290	0.340067	0.070615	0.005432	0.003053	0.195509	0.000938	0.018945	0.010746	0.003010	0.030097
24-Mar-2027	0.797980	19.748700	30.957000	4.836350	69.228593	2.702840	0.034632	0.343461	0.071320	0.005486	0.003083	0.197459	0.000947	0.019134	0.010853	0.003040	0.030398
25-Mar-2027	0.797980	19.952000	31.275800	4.886140	69.941269	2.730670	0.034988	0.346998	0.072054	0.005542	0.003115	0.199491	0.000957	0.019331	0.010965	0.003071	0.030711
26-Mar-2027	0.797980	20.165800	31.610900	4.938480	70.690663	2.759930	0.035363	0.350716	0.072826	0.005602	0.003148	0.201628	0.000967	0.019538	0.011082	0.003104	0.031040
27-Mar-2027	0.797980	20.391300	31.964400	4.993700	71.481133	2.790790	0.035759	0.354637	0.073640	0.005664	0.003184	0.203881	0.000978	0.019756	0.011206	0.003139	0.031387
28-Mar-2027	0.797980	20.628100	32.335700	5.051700	72.311266	2.823210	0.036174	0.358757	0.074496	0.005730	0.003220	0.206249	0.000989	0.019986	0.011336	0.003175	0.031752
29-Mar-2027	0.797980	20.876200	32.724600	5.112450	73.180941	2.857170	0.036609	0.363072	0.075392	0.005799	0.003259	0.208729	0.001001	0.020226	0.011473	0.003213	0.032133
30-Mar-2027	0.797980	21.135200	33.130600	5.175870	74.088827	2.892620	0.037063	0.367576	0.076327	0.005871	0.003300	0.211318	0.001014	0.020477	0.011615	0.003253	0.032532
31-Mar-2027	0.797980	21.404800	33.553300	5.241900	75.033930	2.929520	0.037536	0.372265	0.077301	0.005946	0.003342	0.214013	0.001027	0.020738	0.011763	0.003295	0.032947
1-Apr-2027	0.797980	21.684900	33.992300	5.310480	76.015752	2.967850	0.038027	0.377136	0.078312	0.006024	0.003385	0.216813	0.001040	0.021010	0.011917	0.003338	0.033378
2-Apr-2027	0.797980	21.977600	34.451200	5.382160	77.041802	3.007920	0.038541	0.382226	0.079369	0.006105	0.003431	0.219739	0.001054	0.021293	0.012078	0.003383	0.033829
3-Apr-2027	0.797980	22.266200	34.903600	5.452830	78.053455	3.047410	0.039047	0.387246	0.080411	0.006185	0.003476	0.222624	0.001068	0.021573	0.012237	0.003427	0.034273
4-Apr-2027	0.797980	22.523800	35.307300	5.515900	78.956405	3.082670	0.039498	0.391725	0.081341	0.006257	0.003516	0.225199	0.001080	0.021822	0.012378	0.003467	0.034669
5-Apr-2027	0.797980	22.738200	35.643500	5.568420	79.708039	3.112020	0.039874	0.395454	0.082116	0.006316	0.003550	0.227343	0.001091	0.022030	0.012496	0.003500	0.034999
6-Apr-2027	0.797980	22.913400	35.918200	5.611330	80.322217	3.136000	0.040182	0.398502	0.082748	0.006365	0.003577	0.229095	0.001099	0.022200	0.012592	0.003527	0.035269
7-Apr-2027	0.797979	23.056000	36.141700	5.646250	80.822090	3.155520	0.040432	0.400983	0.083263	0.006405	0.003600	0.230521	0.001106	0.022338	0.012671	0.003549	0.035489
8-Apr-2027	0.797979	23.172300	36.324000	5.674730	81.229771	3.171430	0.040636	0.403005	0.083683	0.006437	0.003618	0.231683	0.001111	0.022451	0.012735	0.003567	0.035668
9-Apr-2027	0.797979	23.267700	36.473600	5.698090	81.564182	3.184490	0.040803	0.404664	0.084028	0.006463	0.003633	0.232637	0.001116	0.022543	0.012787	0.003581	0.035815
10-Apr-2027	0.797979	23.346300	36.596700	5.717340	81.839717	3.195250	0.040941	0.406031	0.084312	0.006485	0.003645	0.233423	0.001120	0.022619	0.012830	0.003594	0.035936
11-Apr-2027	0.797979	23.411000	36.698200	5.733180	82.066502	3.204100	0.041054	0.407156	0.084545	0.006503	0.003655	0.234069	0.001123	0.022682	0.012866	0.003604	0.036035
12-Apr-2027	0.797979	23.464500	36.781900	5.746270	82.253996	3.211420	0.041148	0.408085	0.084738	0.006518	0.003663	0.234604	0.001125	0.022734	0.012895	0.003612	0.036117
13-Apr-2027	0.797979	23.508800	36.851500	5.757140	82.409376	3.217490	0.041226	0.408858	0.084899	0.006530	0.003670	0.235048	0.001128	0.022777	0.012920	0.003619	0.036186
14-Apr-2027	0.797979	23.545800	36.909400	5.766180	82.538992	3.222550	0.041291	0.409500	0.085032	0.006541	0.003676	0.235417	0.001129	0.022813	0.012940	0.003624	0.036243
15-Apr-2027	0.797979	23.576600	36.957700	5.773720	82.646949	3.226760	0.041345	0.410035	0.085143	0.006549	0.003681	0.235725	0.001131	0.022842	0.012957	0.003629	0.036290
16-Apr-2027	0.797979	23.602400	36.998200	5.780050	82.737439	3.230300	0.041390	0.410485	0.085236	0.006556	0.003685	0.235983	0.001132	0.022867	0.012971	0.003633	0.036330
17-Apr-2027	0.797979	23.624200	37.032400	5.785390	82.813863	3.233280	0.041428	0.410864	0.085315	0.006562	0.003688	0.236201	0.001133	0.022889	0.012983	0.003636	0.036363
18-Apr-2027	0.797979	23.642800	37.061400	5.789930	82.879003	3.235820	0.041461	0.411187	0.085382	0.006568	0.003691	0.236386	0.001134	0.022906	0.012993	0.003639	0.036392
19-Apr-2027	0.797979	23.658700	37.086400	5.793830	82.934766	3.238000	0.041488	0.411463	0.085440	0.006572	0.003694	0.236545	0.001135	0.022922	0.013002	0.003642	0.036416
20-Apr-2027	0.797979	23.672400	37.107900	5.797190	82.982811	3.239870	0.041513	0.411702	0.085489	0.006576	0.003696	0.236683	0.001135	0.022935	0.013010	0.003644	0.036437
21-Apr-2027	0.797979	23.684300	37.126600	5.800110	83.024550	3.241510	0.041533	0.411909	0.085532	0.006579	0.003698	0.236802	0.001136	0.022947	0.013016	0.003646	0.036456
22-Apr-2027	0.797979	23.694800	37.143100	5.802690	83.061393	3.242950	0.041552	0.412092	0.085570	0.006582	0.003699	0.236907	0.001137	0.022957	0.013022	0.003647	0.036472
23-Apr-2027	0.797979	23.704200	37.157800	5.804980	83.094295	3.244230	0.041568	0.412255	0.085604	0.006585	0.003701	0.237001	0.001137	0.022966	0.013027	0.003649	0.036486
24-Apr-2027	0.797979	23.712600	37.170900	5.807040	83.123753	3.245380	0.041583	0.412401	0.085635	0.006587	0.003702	0.237085	0.001137	0.022974	0.013032	0.003650	0.036499
25-Apr-2027	0.797979	23.720300	37.182900	5.808910	83.150680	3.246430	0.041596	0.412534	0.085662	0.006589	0.003703	0.237162	0.001138	0.022982	0.013036	0.003651	0.036511
26-Apr-2027	0.797979	23.727300	37.193900	5.810630	83.175242	3.247390	0.041609	0.412656	0.085687	0.006591	0.003704	0.237232	0.001138	0.022988	0.013040	0.003652	0.036522
27-Apr-2027	0.797979	23.733800	37.204100	5.812230	83.198062	3.248280	0.041620	0.412769	0.085711	0.006593	0.003705	0.237297	0.001138	0.022995	0.013043	0.003653	0.036532
28-Apr-2027	0.797979	23.739900	37.213600	5.813720	83.219429	3.249110	0.041631	0.412875	0.085733	0.006595	0.003706	0.237358	0.001139	0.023001	0.013047	0.003654	0.036541
29-Apr-2027	0.797979	23.745600	37.222700	5.815120	83.239427	3.249900	0.041641	0.412975	0.085754	0.006596	0.003707	0.237415	0.001139	0.023006	0.013050	0.003655	0.036550
30-Apr-2027	0.797968	23.751100	37.231300	5.816470	83.258720	3.250650	0.041651	0.413071	0.085774	0.006598	0.003708	0.237470	0.001139	0.023011	0.013053	0.003656	0.036559
1-May-2027	0.797858	23.756500	37.239700	5.817790	83.277640	3.251390	0.041660	0.413165	0.085793	0.006599	0.003709	0.237524	0.001139	0.023017	0.013056	0.003657	0.036567
2-May-2027	0.797239	23.759700	37.244800	5.818580	83.288883	3.251830	0.041666	0.413221	0.085805	0.006600	0.003709	0.237556	0.001140	0.023020	0.013058	0.003657	0.036572
3-May-2027	0.794903	23.734400	37.205200	5.812390	83.200219	3.248370	0.041621	0.412781	0.085713	0.006593	0.003705	0.237304	0.001138	0.022995	0.013044	0.003653	0.036533
4-May-2027	0.792509	23.628200	37.038700	5.786390	82.827969	3.233830	0.041435	0.410934	0.085330	0.006564	0.003689	0.236243	0.001133	0.022892	0.012985	0.003637	0.036369
5-May-2027	0.790063	23.396700	36.675600	5.729690	82.016423	3.202130	0.041029	0.406907	0.084494	0.006499	0.003653	0.233929	0.001122	0.022668	0.012858	0.003601	0.036013
6-May-2027	0.787391	23.038300	36.113900	5.641930	80.760103	3.153080	0.040401	0.400674	0.083200	0.006400	0.003597	0.230346	0.001105	0.022321	0.012661	0.003546	0.035461
7-May-2027	0.784935	22.813800	35.761900	5.586970	79.973201	3.122350	0.040007	0.396769	0.082389	0.006337	0.003562	0.228103	0.001094	0.022103	0.012538	0.003512	0.035116
8-May-2027	0.782972	22.391500	35.099900	5.483550	78.492834	3.064560	0.039266	0.389425	0.080864	0.006220	0.003496	0.223880	0.001074	0.021694	0.012306	0.003447	0.034466
9-May-2027	0.781984	21.946300	34.402100	5.374500	76.932102	3.003630	0.038486	0.381682	0.079256	0.006096	0.003426	0.219427	0.001053	0.021263	0.012061	0.003378	0.033781
10-May-2027	0.780160	21.500300	33.703100	5.265270	75.368631	2.942600	0.037704	0.373926	0.077645	0.005972	0.003357	0.214966	0.001031	0.020831	0.011816	0.003309	0.033094
11-May-2027	0.779480	21.065200	33.021100	5.158700	73.843331	2.883060	0.036941	0.366359	0.076074	0.005852	0.003289	0.210613	0.001010	0.020409	0.011577	0.003242	0.032424
12-May-2027	0.780548	20.648200	32.367300	5.056540	72.381387	2.825990	0.036209	0.359106	0.074567	0.005736	0.003224	0.206441	0.000990	0.020005	0.011348	0.003178	0.031782

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
13-May-2027	0.783444	20.243400	31.732900	4.957400	70.962343	2.770590	0.035499	0.352066	0.073105	0.005623	0.003160	0.202392	0.000971	0.019613	0.011125	0.003116	0.031159
14-May-2027	0.788535	19.407900	30.423400	4.752720	68.033227	2.656280	0.034034	0.337536	0.070087	0.005391	0.003030	0.194029	0.000931	0.018803	0.010666	0.002987	0.029873
15-May-2027	0.796026	18.938300	29.687300	4.637690	66.386943	2.592020	0.033211	0.329369	0.068391	0.005261	0.002956	0.189330	0.000908	0.018348	0.010408	0.002915	0.029151
16-May-2027	0.804303	18.526200	29.041500	4.536760	64.942299	2.535640	0.032488	0.322203	0.066902	0.005146	0.002892	0.185208	0.000889	0.017949	0.010181	0.002852	0.028516
17-May-2027	0.811493	18.084500	28.349200	4.428560	63.393807	2.475200	0.031714	0.314522	0.065307	0.005023	0.002823	0.180788	0.000867	0.017521	0.009939	0.002784	0.027837
18-May-2027	0.830360	17.721500	27.780200	4.339640	62.121223	2.425530	0.031077	0.308208	0.063996	0.004922	0.002766	0.177155	0.000850	0.017169	0.009739	0.002728	0.027278
19-May-2027	0.829009	17.375300	27.237600	4.254820	60.907473	2.378150	0.030470	0.302187	0.062745	0.004826	0.002712	0.173691	0.000833	0.016834	0.009549	0.002674	0.026745
20-May-2027	0.827511	16.482900	25.838700	4.036280	57.779202	2.256010	0.028905	0.286666	0.059522	0.004578	0.002573	0.164768	0.000791	0.015969	0.009059	0.002537	0.025371
21-May-2027	0.830560	15.654600	24.540300	3.833450	54.875683	2.142660	0.027453	0.272261	0.056531	0.004348	0.002444	0.156487	0.000751	0.015166	0.008603	0.002410	0.024096
22-May-2027	0.839060	14.474100	22.691200	3.543940	50.735773	1.981270	0.025382	0.251728	0.052265	0.004020	0.002259	0.144624	0.000694	0.014022	0.007955	0.002228	0.022279
23-May-2027	0.851104	14.200400	22.261200	3.477120	49.777179	1.943630	0.024900	0.246948	0.051285	0.003943	0.002217	0.141903	0.000681	0.013758	0.007804	0.002186	0.021857
24-May-2027	0.859590	13.923500	21.826600	3.409480	48.807218	1.905610	0.024413	0.242119	0.050291	0.003866	0.002174	0.139147	0.000668	0.013490	0.007652	0.002143	0.021431
25-May-2027	0.868169	13.648900	21.395800	3.342370	47.845183	1.867950	0.023931	0.237334	0.049304	0.003790	0.002131	0.136411	0.000655	0.013225	0.007501	0.002101	0.021008
26-May-2027	0.877975	13.383900	20.980300	3.277490	46.916302	1.831650	0.023466	0.232724	0.048348	0.003716	0.002090	0.133764	0.000642	0.012968	0.007355	0.002060	0.020600
27-May-2027	0.888213	13.166100	20.638600	3.224220	46.153090	1.801790	0.023084	0.228930	0.047564	0.003656	0.002056	0.131592	0.000631	0.012757	0.007236	0.002026	0.020264
28-May-2027	0.898064	13.021100	20.411000	3.188800	45.645165	1.781890	0.022829	0.226402	0.047043	0.003615	0.002033	0.130148	0.000625	0.012617	0.007156	0.002004	0.020041
29-May-2027	0.908668	12.880300	20.189700	3.154490	45.152299	1.762480	0.022581	0.223938	0.046541	0.003576	0.002012	0.128752	0.000618	0.012481	0.007078	0.001982	0.019824
30-May-2027	0.917962	12.858700	20.157600	3.148670	45.074397	1.759940	0.022547	0.223611	0.046442	0.003571	0.002007	0.128504	0.000617	0.012458	0.007067	0.001979	0.019792
31-May-2027	0.926766	14.060200	22.041700	3.442760	49.285605	1.924490	0.024655	0.244515	0.050777	0.003905	0.002195	0.140500	0.000674	0.013622	0.007727	0.002164	0.021642
1-Jun-2027	0.942524	12.658000	19.842800	3.099600	44.371179	1.732420	0.022195	0.220116	0.045720	0.003515	0.001976	0.126503	0.000607	0.012264	0.006956	0.001948	0.019483
2-Jun-2027	0.964238	12.296000	19.271000	3.012240	43.107516	1.681910	0.021550	0.213712	0.044461	0.003413	0.001922	0.122973	0.000590	0.011919	0.006757	0.001892	0.018922
3-Jun-2027	1.025007	11.919000	18.680200	2.919840	41.785644	1.630410	0.020892	0.207188	0.043155	0.003309	0.001866	0.119200	0.000572	0.011553	0.006550	0.001835	0.018345
4-Jun-2027	1.165962	11.613500	18.185000	2.849880	40.734715	1.585220	0.020333	0.201639	0.042264	0.003218	0.001828	0.116481	0.000556	0.011278	0.006379	0.001788	0.017884
5-Jun-2027	1.269798	11.316100	17.693800	2.784300	39.722049	1.539390	0.019776	0.196105	0.041441	0.003128	0.001792	0.114010	0.000540	0.011020	0.006212	0.001744	0.017439
6-Jun-2027	1.360446	10.814300	16.849800	2.678030	38.031435	1.459350	0.018811	0.186474	0.040394	0.002971	0.001745	0.110184	0.000513	0.010606	0.005927	0.001668	0.016676
7-Jun-2027	1.405506	10.679000	16.643700	2.643190	37.550119	1.442400	0.018594	0.184378	0.039883	0.002936	0.001720	0.108743	0.000507	0.010468	0.005854	0.001647	0.016475
8-Jun-2027	1.451023	10.478900	16.311900	2.599490	36.870513	1.411420	0.018217	0.180626	0.039412	0.002875	0.001699	0.107126	0.000497	0.010297	0.005741	0.001617	0.016170
9-Jun-2027	1.502612	10.221000	15.869500	2.547300	36.011618	1.368100	0.017699	0.175408	0.039013	0.002791	0.001680	0.105313	0.000482	0.010095	0.005594	0.001577	0.015772
10-Jun-2027	1.619009	9.969660	15.452300	2.492430	35.158068	1.329050	0.017226	0.170706	0.038899	0.002715	0.001661	0.103450	0.000469	0.009880	0.005452	0.001539	0.015391
11-Jun-2027	1.811221	9.771680	15.116300	2.451250	34.494132	1.296770	0.016843	0.166854	0.038696	0.002653	0.001642	0.101950	0.000458	0.009721	0.005340	0.001509	0.015091
12-Jun-2027	2.038877	9.615010	14.850600	2.418380	33.967569	1.271460	0.016544	0.163842	0.038415	0.002605	0.001629	0.100943	0.000450	0.009595	0.005251	0.001485	0.014855
13-Jun-2027	2.267604	9.517740	14.681400	2.398980	33.644796	1.255040	0.016357	0.161931	0.038105	0.002575	0.001619	0.100211	0.000444	0.009522	0.005195	0.001471	0.014709
14-Jun-2027	2.508996	9.323710	14.347600	2.359330	32.997025	1.222750	0.015980	0.158092	0.037717	0.002516	0.001608	0.099197	0.000433	0.009371	0.005085	0.001441	0.014415
15-Jun-2027	2.785564	9.131800	14.016100	2.320430	32.357635	1.190720	0.015611	0.154362	0.037684	0.002457	0.001594	0.098060	0.000423	0.009224	0.004975	0.001413	0.014127
16-Jun-2027	3.088559	8.951390	13.701200	2.286990	31.769446	1.159950	0.015260	0.150792	0.037679	0.002402	0.001583	0.097234	0.000412	0.009106	0.004872	0.001386	0.013856
17-Jun-2027	3.355974	8.832640	13.491400	2.262070	31.370306	1.139240	0.015030	0.148492	0.037705	0.002364	0.001571	0.096227	0.000405	0.009006	0.004804	0.001368	0.013682
18-Jun-2027	3.553454	8.665440	13.199900	2.228930	30.816337	1.110780	0.014706	0.145217	0.037675	0.002312	0.001560	0.095269	0.000396	0.008881	0.004708	0.001343	0.013432
19-Jun-2027	3.729877	8.459200	12.842900	2.187230	30.129636	1.076190	0.014308	0.141206	0.037598	0.002249	0.001548	0.095910	0.000384	0.008724	0.004591	0.001312	0.013120
20-Jun-2027	3.897938	8.298660	12.561900	2.155710	29.598968	1.048670	0.013997	0.138085	0.037525	0.002199	0.001537	0.095809	0.000375	0.008606	0.004499	0.001288	0.012881
21-Jun-2027	4.019434	8.147630	12.296700	2.127120	29.104112	1.022720	0.013704	0.135134	0.037569	0.002153	0.001529	0.095895	0.000366	0.008511	0.004412	0.001265	0.012653
22-Jun-2027	4.120731	7.999890	12.036300	2.097700	28.614054	0.997318	0.013421	0.132256	0.037477	0.002110	0.001519	0.095945	0.000358	0.008404	0.004328	0.001243	0.012430
23-Jun-2027	4.210150	7.852490	11.774800	2.070210	28.132792	0.971655	0.013138	0.129402	0.037466	0.002066	0.001510	0.095955	0.000349	0.008305	0.004243	0.001221	0.012209
24-Jun-2027	4.332406	7.739740	11.576000	2.046430	27.753330	0.952296	0.012924	0.127251	0.037534	0.002032	0.001502	0.096173	0.000343	0.008206	0.004179	0.001204	0.012041
25-Jun-2027	4.534538	7.592250	11.319100	2.016300	27.260972	0.927646	0.012646	0.124416	0.037429	0.001991	0.001492	0.096356	0.000334	0.008096	0.004095	0.001182	0.011815
26-Jun-2027	4.795583	7.497420	11.151700	1.998070	26.949110	0.911195	0.012465	0.122609	0.037235	0.001961	0.001488	0.095761	0.000329	0.008028	0.004041	0.001168	0.011677
27-Jun-2027	5.068553	7.327840	10.851800	1.964640	26.388004	0.882088	0.012145	0.119347	0.037019	0.001913	0.001481	0.095308	0.000319	0.007908	0.003944	0.001142	0.011420
28-Jun-2027	5.282886	7.165190	10.565200	1.934830	25.859109	0.854301	0.011839	0.116245	0.036887	0.001868	0.001473	0.095688	0.000310	0.007816	0.003852	0.001118	0.011176
29-Jun-2027	5.487640	7.037480	10.315700	1.912230	25.447151	0.830062	0.011605	0.113690	0.036796	0.001832	0.001466	0.096054	0.000302	0.007733	0.003777	0.001099	0.010986
30-Jun-2027	5.718975	6.903170	10.104500	1.884230	24.996475	0.809450	0.011344	0.111270	0.036674	0.001790	0.001460	0.095932	0.000295	0.007631	0.003702	0.001079	0.010788
1-Jul-2027	5.901679	6.808380	9.914750	1.866950	24.688625	0.790061	0.011171	0.109339	0.036458	0.001763	0.001455	0.095809	0.000288	0.007565	0.003647	0.001065	0.010646
2-Jul-2027	7.372389	6.414550	9.242190	1.787570	23.378345	0.724681	0.010412	0.101901	0.035094	0.001635	0.001414	0.093645	0.000266	0.007252	0.003421	0.001008	0.010083
3-Jul-2027	8.328732	5.987770	8.492530	1.697270	21.940820	0.654387	0.009653	0.094291	0.034336	0.001615	0.001392	0.089666	0.000242	0.007033	0.003187	0.000944	0.009441
4-Jul-2027	9.614204	5.932380	8.393900	1.684150	21.748483	0.645824	0.009566	0.093423	0.034064	0.001600	0.001383	0.090398	0.000239	0.006953	0.003157	0.000935	0.009352

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
5-Jul-2027	10.619791	6.249050	8.986450	1.732070	22.736542	0.704873	0.010116	0.098959	0.033883	0.001613	0.001381	0.090640	0.000259	0.007133	0.003346	0.000984	0.009836
6-Jul-2027	12.266633	6.034400	8.601510	1.698980	22.064296	0.666578	0.009725	0.095070	0.033585	0.001553	0.001377	0.089943	0.000246	0.006961	0.003215	0.000951	0.009508
7-Jul-2027	12.853830	6.099720	8.724830	1.709060	22.268910	0.679056	0.009844	0.096270	0.033477	0.001567	0.001376	0.088673	0.000250	0.006995	0.003254	0.000960	0.009605
8-Jul-2027	13.626538	6.369150	9.202380	1.752120	23.118998	0.727391	0.010353	0.101330	0.033517	0.001665	0.001377	0.087343	0.000266	0.007212	0.003418	0.001000	0.010005
9-Jul-2027	14.597057	6.389960	9.236200	1.755520	23.184961	0.731012	0.010397	0.101756	0.033607	0.001677	0.001379	0.085646	0.000267	0.007233	0.003431	0.001003	0.010032
10-Jul-2027	15.183966	6.398020	9.263990	1.758810	23.218636	0.733090	0.010391	0.101736	0.033345	0.001668	0.001376	0.086203	0.000268	0.007207	0.003431	0.001005	0.010047
11-Jul-2027	15.673150	6.217680	8.923790	1.730600	22.652158	0.699554	0.010079	0.098573	0.033448	0.001643	0.001380	0.087602	0.000257	0.007092	0.003324	0.000977	0.009767
12-Jul-2027	16.181275	6.398130	9.256600	1.759910	23.223440	0.732653	0.010401	0.101821	0.033433	0.001687	0.001381	0.086906	0.000268	0.007214	0.003431	0.001004	0.010040
13-Jul-2027	16.083883	6.370600	9.206780	1.756540	23.140820	0.727537	0.010348	0.101284	0.033290	0.001673	0.001381	0.086712	0.000267	0.007188	0.003413	0.001000	0.009996
14-Jul-2027	16.269346	6.672270	9.763150	1.804080	24.089860	0.782993	0.010889	0.106719	0.033543	0.001757	0.001383	0.086164	0.000285	0.007398	0.003594	0.001046	0.010455
15-Jul-2027	16.898442	6.545160	9.529140	1.784740	23.692824	0.759610	0.010660	0.104424	0.033385	0.001721	0.001380	0.086601	0.000277	0.007307	0.003517	0.001026	0.010261
16-Jul-2027	17.333637	6.826960	10.046200	1.829830	24.582159	0.811193	0.011167	0.109523	0.033658	0.001806	0.001386	0.085420	0.000295	0.007503	0.003686	0.001069	0.010687
17-Jul-2027	16.426307	6.737520	9.883070	1.817180	24.306735	0.794702	0.011001	0.107852	0.033469	0.001779	0.001385	0.085156	0.000289	0.007431	0.003630	0.001055	0.010549
18-Jul-2027	16.760095	6.631100	9.687050	1.801340	23.975775	0.775026	0.010807	0.105882	0.033287	0.001748	0.001383	0.086003	0.000283	0.007351	0.003565	0.001039	0.010385
19-Jul-2027	16.291464	6.721360	9.847500	1.815580	24.259794	0.791341	0.010978	0.107589	0.033421	0.001782	0.001385	0.086410	0.000288	0.007423	0.003620	0.001052	0.010518
20-Jul-2027	15.984693	6.750360	9.899550	1.821140	24.355103	0.796520	0.011031	0.108123	0.033410	0.001793	0.001386	0.085626	0.000290	0.007441	0.003637	0.001056	0.010560
21-Jul-2027	16.219717	6.823290	10.033000	1.832520	24.584072	0.809864	0.011163	0.109443	0.033497	0.001815	0.001387	0.086809	0.000294	0.007494	0.003681	0.001067	0.010670
22-Jul-2027	16.919614	6.913440	10.200000	1.847760	24.871935	0.826356	0.011321	0.111028	0.033533	0.001841	0.001389	0.087172	0.000300	0.007550	0.003734	0.001081	0.010805
23-Jul-2027	16.243276	6.847690	10.077800	1.839040	24.671849	0.814062	0.011201	0.109815	0.033380	0.001824	0.001388	0.086279	0.000296	0.007498	0.003693	0.001070	0.010702
24-Jul-2027	16.804813	6.882370	10.144700	1.846620	24.789659	0.820450	0.011258	0.110404	0.033340	0.001833	0.001389	0.086591	0.000298	0.007508	0.003711	0.001075	0.010754
25-Jul-2027	15.937582	7.070220	10.483600	1.874770	25.374642	0.854660	0.011605	0.113852	0.033612	0.001894	0.001393	0.086569	0.000309	0.007657	0.003826	0.001104	0.011036
26-Jul-2027	15.841218	7.125770	10.587000	1.885100	25.555889	0.864756	0.011700	0.114807	0.033581	0.001911	0.001395	0.087179	0.000313	0.007687	0.003857	0.001112	0.011118
27-Jul-2027	15.127958	7.025630	10.404000	1.869870	25.243123	0.846385	0.011517	0.112969	0.033424	0.001880	0.001393	0.086656	0.000307	0.007611	0.003796	0.001097	0.010965
28-Jul-2027	14.732553	7.036840	10.425600	1.872590	25.282315	0.848386	0.011533	0.113127	0.033381	0.001883	0.001393	0.086815	0.000307	0.007613	0.003802	0.001098	0.010981
29-Jul-2027	14.532634	7.086740	10.517800	1.881490	25.443566	0.857475	0.011620	0.113998	0.033394	0.001898	0.001394	0.087447	0.000310	0.007643	0.003831	0.001105	0.011055
30-Jul-2027	14.225774	7.142470	10.619800	1.889600	25.616120	0.867723	0.011721	0.115009	0.033461	0.001915	0.001395	0.088190	0.000314	0.007685	0.003865	0.001114	0.011139
31-Jul-2027	14.169854	7.218970	10.761100	1.902660	25.860922	0.881664	0.011855	0.116357	0.033490	0.001937	0.001397	0.088298	0.000319	0.007733	0.003910	0.001125	0.011254
1-Aug-2027	14.392675	7.396560	11.085300	1.930580	26.419339	0.914147	0.012179	0.119602	0.033710	0.001992	0.001401	0.088208	0.000329	0.007862	0.004017	0.001152	0.011522
2-Aug-2027	14.778930	7.286120	10.882100	1.913350	26.072617	0.893864	0.011980	0.117602	0.033571	0.001960	0.001398	0.087823	0.000323	0.007784	0.003950	0.001135	0.011354
3-Aug-2027	15.249220	7.450210	11.190300	1.942870	26.603913	0.923674	0.012243	0.120228	0.033552	0.002006	0.001401	0.087555	0.000333	0.007873	0.004044	0.001160	0.011603
4-Aug-2027	15.309603	7.666280	11.587800	1.977840	27.287446	0.963025	0.012618	0.123970	0.033741	0.002070	0.001406	0.087321	0.000346	0.008020	0.004172	0.001193	0.011928
5-Aug-2027	15.936541	7.525220	11.327600	1.955860	26.844706	0.937044	0.012364	0.121398	0.033537	0.002029	0.001403	0.087682	0.000338	0.007919	0.004087	0.001171	0.011710
6-Aug-2027	15.778258	7.511440	11.301000	1.954100	26.803049	0.934404	0.012339	0.121144	0.033505	0.002027	0.001403	0.087535	0.000337	0.007909	0.004079	0.001169	0.011687
7-Aug-2027	16.040909	7.597940	11.461300	1.969040	27.080563	0.950003	0.012480	0.122534	0.033513	0.002052	0.001405	0.087520	0.000342	0.007961	0.004129	0.001182	0.011815
8-Aug-2027	16.100307	7.399450	11.099600	1.940060	26.465594	0.913416	0.012108	0.118792	0.033146	0.001992	0.001401	0.087902	0.000330	0.007805	0.004007	0.001151	0.011512
9-Aug-2027	16.404528	7.842600	11.906000	2.008730	27.854922	0.994243	0.012911	0.126821	0.033742	0.002131	0.001410	0.088172	0.000357	0.008135	0.004275	0.001218	0.012179
10-Aug-2027	16.035361	7.493910	11.269100	1.958590	26.777767	0.929781	0.012254	0.120230	0.033069	0.002029	0.001404	0.088650	0.000336	0.007860	0.004060	0.001164	0.011645
11-Aug-2027	15.728471	7.631670	11.526200	1.979750	27.208890	0.955258	0.012496	0.122653	0.033230	0.002065	0.001406	0.088212	0.000344	0.007953	0.004143	0.001186	0.011858
12-Aug-2027	15.416471	7.703740	11.659100	1.991900	27.438883	0.968296	0.012617	0.123853	0.033265	0.002086	0.001408	0.088045	0.000349	0.008000	0.004185	0.001197	0.011966
13-Aug-2027	15.365279	7.626540	11.517300	1.980050	27.197316	0.954108	0.012477	0.122452	0.033150	0.002064	0.001406	0.087626	0.000344	0.007943	0.004138	0.001185	0.011847
14-Aug-2027	14.690026	7.718750	11.689300	1.996840	27.496706	0.970646	0.012620	0.123863	0.033127	0.002090	0.001408	0.087876	0.000350	0.007993	0.004191	0.001198	0.011985
15-Aug-2027	13.752207	7.731180	11.711900	1.999020	27.536721	0.972859	0.012641	0.124062	0.033126	0.002094	0.001408	0.088006	0.000350	0.008001	0.004198	0.001200	0.012003
16-Aug-2027	13.352508	7.925840	12.068100	2.029580	28.148633	1.008360	0.012987	0.127517	0.033352	0.002154	0.001412	0.088406	0.000362	0.008141	0.004315	0.001230	0.012296
17-Aug-2027	13.040508	7.931190	12.083000	2.033360	28.177558	1.009020	0.012968	0.127315	0.033193	0.002153	0.001412	0.088009	0.000363	0.008123	0.004315	0.001230	0.012304
18-Aug-2027	13.597653	8.189600	12.556800	2.074880	28.993787	1.056040	0.013420	0.131828	0.033457	0.002231	0.001418	0.088726	0.000379	0.008304	0.004469	0.001269	0.012693
19-Aug-2027	13.852538	8.037560	12.275000	2.050180	28.512429	1.028080	0.013151	0.129112	0.033303	0.002188	0.001415	0.088452	0.000369	0.008202	0.004379	0.001246	0.012460
20-Aug-2027	13.420129	7.936420	12.081700	2.031730	28.183905	1.009050	0.012967	0.127203	0.033286	0.002163	0.001413	0.088734	0.000363	0.008151	0.004321	0.001230	0.012300
21-Aug-2027	13.187536	7.916480	12.050900	2.032160	28.135885	1.005350	0.012915	0.126696	0.033089	0.002154	0.001413	0.089009	0.000362	0.008113	0.004305	0.001227	0.012269
22-Aug-2027	13.178800	7.950240	12.114900	2.038350	28.245675	1.011420	0.012964	0.127189	0.033046	0.002163	0.001413	0.089013	0.000364	0.008128	0.004324	0.001232	0.012320
23-Aug-2027	13.352407	8.082050	12.356000	2.058660	28.658441	1.035530	0.013202	0.129565	0.033216	0.002203	0.001416	0.090273	0.000372	0.008225	0.004404	0.001252	0.012519
24-Aug-2027	13.475087	7.976240	12.162900	2.042710	28.328551	1.016120	0.013008	0.127614	0.033042	0.002173	0.001414	0.089899	0.000366	0.008145	0.004339	0.001236	0.012358
25-Aug-2027	13.775633	8.027970	12.260100	2.053350	28.501536	1.025170	0.013077	0.128289	0.032959	0.002186	0.001415	0.089600	0.000369	0.008166	0.004367	0.001243	0.012434
26-Aug-2027	13.380575	8.079440	12.364500	2.065440	28.679844	1.034370	0.013129	0.128807	0.032809	0.002194	0.001416	0.089062	0.000372	0.008170	0.004392	0.001252	0.012516

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
27-Aug-2027	13.094891	8.400700	12.946600	2.112950	29.677676	1.093230	0.013729	0.134803	0.033331	0.002295	0.001423	0.089260	0.000392	0.008423	0.004590	0.001300	0.012999
28-Aug-2027	13.254421	8.229710	12.632500	2.086330	29.141093	1.061880	0.013422	0.131729	0.033105	0.002245	0.001419	0.089311	0.000381	0.008300	0.004486	0.001274	0.012738
29-Aug-2027	12.888434	8.213080	12.603300	2.087490	29.104345	1.058140	0.013361	0.131081	0.032897	0.002243	0.001419	0.090137	0.000380	0.008268	0.004472	0.001271	0.012706
30-Aug-2027	12.281705	8.214100	12.608100	2.087720	29.107839	1.058440	0.013358	0.131053	0.032845	0.002239	0.001419	0.089757	0.000381	0.008263	0.004472	0.001271	0.012708
31-Aug-2027	12.071568	8.178180	12.543200	2.083140	28.999286	1.051660	0.013282	0.130286	0.032733	0.002228	0.001418	0.089498	0.000378	0.008230	0.004449	0.001265	0.012647
1-Sep-2027	11.524986	8.278050	12.724500	2.100370	29.319615	1.069470	0.013447	0.131918	0.032781	0.002263	0.001420	0.089779	0.000384	0.008296	0.004508	0.001280	0.012798
2-Sep-2027	11.044170	8.399390	12.952200	2.118680	29.698001	1.092400	0.013667	0.134134	0.032873	0.002298	0.001421	0.089290	0.000392	0.008376	0.004581	0.001298	0.012983
3-Sep-2027	11.041107	8.353980	12.873900	2.111030	29.553110	1.084750	0.013585	0.133316	0.032750	0.002283	0.001419	0.089077	0.000390	0.008336	0.004554	0.001291	0.012914
4-Sep-2027	10.970696	8.278090	12.730700	2.099500	29.316132	1.070350	0.013449	0.131942	0.032702	0.002262	0.001419	0.089948	0.000385	0.008287	0.004508	0.001280	0.012798
5-Sep-2027	11.524289	8.543420	13.223100	2.139530	30.143504	1.119920	0.013928	0.136749	0.032965	0.002342	0.001421	0.089482	0.000401	0.008472	0.004669	0.001320	0.013200
6-Sep-2027	11.215839	8.628510	13.376900	2.152410	30.409014	1.135440	0.014080	0.138251	0.033061	0.002372	0.001422	0.089793	0.000406	0.008537	0.004721	0.001332	0.013325
7-Sep-2027	10.973725	8.446330	13.043700	2.125260	29.842307	1.101880	0.013744	0.134886	0.032762	0.002317	0.001419	0.089613	0.000395	0.008398	0.004610	0.001305	0.013046
8-Sep-2027	10.684813	8.432380	13.019000	2.123130	29.798702	1.099390	0.013717	0.134614	0.032723	0.002312	0.001418	0.089829	0.000394	0.008386	0.004601	0.001302	0.013024
9-Sep-2027	10.415613	8.524700	13.195300	2.136790	30.085477	1.117330	0.013879	0.136238	0.032729	0.002343	0.001418	0.089747	0.000401	0.008440	0.004657	0.001316	0.013162
10-Sep-2027	10.144274	8.741150	13.592400	2.170000	30.762712	1.157160	0.014271	0.140160	0.032980	0.002409	0.001420	0.090181	0.000414	0.008598	0.004788	0.001349	0.013489
11-Sep-2027	9.552955	8.491780	13.131300	2.132420	29.985280	1.110880	0.013813	0.135559	0.032625	0.002344	0.001416	0.090428	0.000398	0.008418	0.004637	0.001311	0.013106
12-Sep-2027	8.908693	8.603250	13.342000	2.148850	30.331280	1.132120	0.014016	0.137604	0.032727	0.002369	0.001417	0.090250	0.000405	0.008490	0.004704	0.001328	0.013277
13-Sep-2027	8.502325	8.691020	13.502100	2.162450	30.606446	1.148180	0.014173	0.139167	0.032808	0.002397	0.001418	0.089962	0.000411	0.008554	0.004757	0.001341	0.013407
14-Sep-2027	8.088126	8.759280	13.628800	2.172830	30.819636	1.160950	0.014295	0.140380	0.032853	0.002419	0.001419	0.090185	0.000415	0.008601	0.004798	0.001351	0.013509
15-Sep-2027	7.627279	8.785230	13.679200	2.176520	30.899629	1.166100	0.014341	0.140848	0.032847	0.002427	0.001418	0.090041	0.000417	0.008615	0.004814	0.001355	0.013548
16-Sep-2027	7.263489	8.803050	13.712700	2.179140	30.954914	1.169480	0.014373	0.141165	0.032857	0.002432	0.001418	0.090050	0.000418	0.008627	0.004825	0.001357	0.013575
17-Sep-2027	6.892391	8.917600	13.932400	2.196160	31.311034	1.191720	0.014576	0.143199	0.032862	0.002465	0.001417	0.090063	0.000425	0.008693	0.004894	0.001375	0.013747
18-Sep-2027	6.467922	8.941360	13.972000	2.199940	31.385929	1.195620	0.014621	0.143645	0.032944	0.002473	0.001418	0.090243	0.000427	0.008717	0.004908	0.001378	0.013783
19-Sep-2027	6.327077	8.895440	13.890200	2.192960	31.242523	1.187430	0.014534	0.142777	0.032840	0.002459	0.001417	0.090071	0.000424	0.008678	0.004880	0.001371	0.013712
20-Sep-2027	5.974430	8.935750	13.965200	2.198930	31.367761	1.195000	0.014607	0.143505	0.032866	0.002472	0.001417	0.090146	0.000427	0.008706	0.004904	0.001377	0.013773
21-Sep-2027	6.070872	9.133470	14.332100	2.228630	31.983773	1.231980	0.014965	0.147085	0.033063	0.002532	0.001419	0.090540	0.000439	0.008844	0.005024	0.001407	0.014072
22-Sep-2027	5.990210	9.212750	14.476900	2.240890	32.232222	1.246560	0.015106	0.148492	0.033133	0.002559	0.001420	0.090855	0.000444	0.008901	0.005072	0.001419	0.014188
23-Sep-2027	5.597688	9.020300	14.126900	2.211440	31.630399	1.211500	0.014755	0.144981	0.032833	0.002500	0.001415	0.090321	0.000432	0.008755	0.004955	0.001390	0.013896
24-Sep-2027	5.078839	9.325940	14.691100	2.257580	32.583587	1.268230	0.015310	0.150538	0.033185	0.002592	0.001419	0.090931	0.000451	0.008973	0.005141	0.001436	0.014359
25-Sep-2027	5.015885	9.331080	14.698900	2.258460	32.600045	1.268980	0.015318	0.150616	0.033202	0.002594	0.001420	0.091011	0.000451	0.008979	0.005144	0.001437	0.014366
26-Sep-2027	4.997234	9.159840	14.388900	2.232320	32.064814	1.237940	0.015003	0.147460	0.032894	0.002542	0.001415	0.090468	0.000441	0.008845	0.005040	0.001410	0.014105
27-Sep-2027	5.469498	9.369710	14.779500	2.263450	32.717053	1.277410	0.015384	0.151275	0.033092	0.002606	0.001417	0.090873	0.000454	0.008990	0.005167	0.001442	0.014422
28-Sep-2027	5.480216	9.149040	14.374300	2.230310	32.029569	1.236670	0.014979	0.147215	0.032768	0.002541	0.001413	0.090425	0.000441	0.008827	0.005033	0.001409	0.014085
29-Sep-2027	5.238096	9.351180	14.745000	2.261100	32.661106	1.273950	0.015346	0.150886	0.033015	0.002604	0.001416	0.090927	0.000453	0.008974	0.005155	0.001439	0.014390
30-Sep-2027	5.285251	9.240750	14.544200	2.244100	32.315357	1.253810	0.015144	0.148865	0.032845	0.002569	0.001414	0.090560	0.000446	0.008890	0.005088	0.001422	0.014222
1-Oct-2027	5.275670	9.209900	14.489800	2.239350	32.218764	1.248390	0.015085	0.148276	0.032754	0.002560	0.001412	0.090520	0.000444	0.008863	0.005069	0.001417	0.014174
2-Oct-2027	4.650842	9.339100	14.728900	2.258490	32.620195	1.272560	0.015321	0.150642	0.032902	0.002600	0.001413	0.090719	0.000452	0.008955	0.005148	0.001437	0.014370
3-Oct-2027	4.191313	9.288150	14.635700	2.250540	32.460234	1.263250	0.015230	0.149729	0.032838	0.002584	0.001412	0.090586	0.000449	0.008918	0.005117	0.001429	0.014293
4-Oct-2027	4.122897	9.240380	14.548500	2.243090	32.310273	1.254540	0.015144	0.148865	0.032771	0.002570	0.001411	0.090632	0.000446	0.008883	0.005089	0.001422	0.014221
5-Oct-2027	3.843809	9.210800	14.494800	2.238350	32.216893	1.249230	0.015091	0.148338	0.032726	0.002562	0.001410	0.090646	0.000445	0.008861	0.005071	0.001418	0.014176
6-Oct-2027	3.763903	9.194970	14.465800	2.235930	32.167400	1.246350	0.015063	0.148059	0.032709	0.002557	0.001410	0.090537	0.000444	0.008849	0.005061	0.001415	0.014152
7-Oct-2027	3.293595	9.178920	14.437000	2.233150	32.115875	1.243530	0.015034	0.147780	0.032684	0.002552	0.001409	0.090416	0.000443	0.008837	0.005052	0.001413	0.014128
8-Oct-2027	3.030506	9.165560	14.412600	2.231030	32.073785	1.241140	0.015011	0.147548	0.032668	0.002549	0.001409	0.090325	0.000442	0.008827	0.005044	0.001411	0.014107
9-Oct-2027	2.804973	9.153780	14.391900	2.228900	32.035599	1.239120	0.014991	0.147347	0.032651	0.002545	0.001408	0.090501	0.000441	0.008818	0.005037	0.001409	0.014090
10-Oct-2027	1.939147	9.135360	14.358800	2.225830	31.976962	1.235880	0.014958	0.147029	0.032625	0.002539	0.001408	0.090348	0.000440	0.008805	0.005026	0.001406	0.014062
11-Oct-2027	1.567741	9.113510	14.320100	2.222040	31.906795	1.232110	0.014921	0.146660	0.032598	0.002532	0.001407	0.090377	0.000439	0.008788	0.005013	0.001403	0.014030
12-Oct-2027	0.835625	9.087440	14.273000	2.217770	31.824115	1.227470	0.014875	0.146211	0.032564	0.002524	0.001406	0.090264	0.000437	0.008768	0.004997	0.001399	0.013991
13-Oct-2027	0.346393	9.077460	14.255100	2.216110	31.792359	1.225710	0.014858	0.146039	0.032550	0.002521	0.001405	0.090242	0.000437	0.008761	0.004991	0.001398	0.013976
14-Oct-2027	0.166678	9.067190	14.237000	2.214290	31.759220	1.223970	0.014840	0.145864	0.032531	0.002518	0.001405	0.089993	0.000436	0.008753	0.004985	0.001396	0.013960
15-Oct-2027	0.012506	9.032700	14.175100	2.208590	31.649626	1.217900	0.014780	0.145267	0.032479	0.002508	0.001404	0.089809	0.000434	0.008726	0.004965	0.001391	0.013908
16-Oct-2027	0.008487	9.008990	14.132800	2.204520	31.573661	1.213790	0.014738	0.144860	0.032439	0.002501	0.001403	0.089636	0.000433	0.008708	0.004951	0.001387	0.013873
17-Oct-2027	0.009116	9.024310	14.157000	2.208190	31.627028	1.215890	0.014764	0.145107	0.032494	0.002505	0.001405	0.089879	0.000433	0.008723	0.004959	0.001390	0.013896
18-Oct-2027	0.009520	9.097840	14.272000	2.226640	31.886610	1.225730	0.014884	0.146286	0.032768	0.002526	0.001417	0.090643	0.000437	0.008795	0.004999	0.001401	0.014009

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
19-Oct-2027	0.009452	9.174070	14.390600	2.245360	32.154045	1.235810	0.015008	0.147507	0.033044	0.002547	0.001429	0.091303	0.000441	0.008869	0.005041	0.001413	0.014127
20-Oct-2027	0.009563	9.242640	14.497600	2.262330	32.395147	1.244950	0.015120	0.148606	0.033295	0.002566	0.001440	0.092001	0.000444	0.008935	0.005079	0.001423	0.014233
21-Oct-2027	0.009658	9.209530	14.446600	2.253870	32.277633	1.240660	0.015066	0.148079	0.033168	0.002557	0.001437	0.092045	0.000442	0.008903	0.005061	0.001418	0.014181
22-Oct-2027	0.009916	9.228310	14.475900	2.260950	32.353682	1.243160	0.015097	0.148380	0.033308	0.002562	0.001446	0.092654	0.000443	0.008921	0.005071	0.001421	0.014210
23-Oct-2027	0.010340	9.247490	14.505300	2.274420	32.457044	1.245630	0.015128	0.148684	0.033504	0.002574	0.001455	0.093291	0.000444	0.008968	0.005081	0.001424	0.014240
24-Oct-2027	0.010637	9.299440	14.549800	2.288050	32.642892	1.248480	0.015189	0.149256	0.033703	0.002590	0.001465	0.093934	0.000445	0.009021	0.005103	0.001431	0.014314
25-Oct-2027	0.010932	9.352890	14.630700	2.302010	32.833844	1.253740	0.015275	0.150092	0.033906	0.002606	0.001474	0.094589	0.000447	0.009075	0.005132	0.001440	0.014396
26-Oct-2027	0.011281	9.407970	14.714700	2.316220	33.029895	1.260250	0.015363	0.150958	0.034113	0.002622	0.001484	0.095240	0.000450	0.009130	0.005162	0.001448	0.014480
27-Oct-2027	0.012293	9.465310	14.802200	2.330970	33.233814	1.267600	0.015455	0.151860	0.034328	0.002639	0.001493	0.095914	0.000453	0.009188	0.005193	0.001457	0.014567
28-Oct-2027	0.013160	9.524940	14.893500	2.346210	33.445468	1.275290	0.015551	0.152801	0.034550	0.002657	0.001504	0.096601	0.000455	0.009247	0.005226	0.001466	0.014658
29-Oct-2027	0.013765	9.587680	14.990100	2.362120	33.667647	1.283450	0.015652	0.153795	0.034782	0.002675	0.001514	0.097306	0.000458	0.009309	0.005260	0.001475	0.014754
30-Oct-2027	0.014240	9.653650	15.092200	2.378660	33.900486	1.292130	0.015759	0.154845	0.035024	0.002694	0.001525	0.098021	0.000461	0.009374	0.005296	0.001486	0.014855
31-Oct-2027	0.014495	9.720670	15.196200	2.395380	34.136688	1.300990	0.015868	0.155914	0.035270	0.002713	0.001536	0.098734	0.000465	0.009440	0.005333	0.001496	0.014958
1-Nov-2027	0.014350	9.788480	15.301500	2.412270	34.375562	1.309960	0.015979	0.156998	0.035519	0.002732	0.001547	0.099451	0.000468	0.009506	0.005370	0.001506	0.015062
2-Nov-2027	0.014242	9.856970	15.408000	2.429320	34.616794	1.319030	0.016090	0.158093	0.035770	0.002751	0.001558	0.100173	0.000471	0.009574	0.005407	0.001517	0.015168
3-Nov-2027	0.015047	9.926600	15.516300	2.446590	34.861778	1.328280	0.016204	0.159208	0.036026	0.002771	0.001569	0.100900	0.000474	0.009642	0.005446	0.001527	0.015275
4-Nov-2027	0.015969	9.998840	15.629400	2.464310	35.115132	1.337980	0.016322	0.160371	0.036290	0.002791	0.001580	0.101627	0.000478	0.009712	0.005485	0.001539	0.015386
5-Nov-2027	0.016157	10.069700	15.740700	2.481500	35.362858	1.347580	0.016439	0.161517	0.036547	0.002811	0.001591	0.102319	0.000481	0.009781	0.005524	0.001550	0.015495
6-Nov-2027	0.016262	10.134500	15.842700	2.497190	35.589275	1.356380	0.016546	0.162570	0.036786	0.002828	0.001601	0.102951	0.000484	0.009843	0.005560	0.001560	0.015595
7-Nov-2027	0.016807	10.183200	15.920300	2.508620	35.757948	1.363150	0.016627	0.163367	0.036959	0.002842	0.001608	0.103382	0.000487	0.009890	0.005587	0.001567	0.015671
8-Nov-2027	0.017205	10.233800	15.999600	2.520950	35.935071	1.369980	0.016710	0.164185	0.037144	0.002856	0.001616	0.103888	0.000489	0.009939	0.005615	0.001575	0.015749
9-Nov-2027	0.017112	10.286100	16.083900	2.533090	36.115656	1.377380	0.016797	0.165041	0.037320	0.002870	0.001623	0.104329	0.000492	0.009988	0.005644	0.001583	0.015830
10-Nov-2027	0.016551	10.335100	16.166000	2.543530	36.281001	1.384810	0.016880	0.165863	0.037468	0.002882	0.001629	0.104617	0.000494	0.010031	0.005672	0.001591	0.015906
11-Nov-2027	0.016289	10.382100	16.244700	2.553530	36.439540	1.391940	0.016960	0.166651	0.037611	0.002893	0.001634	0.104894	0.000497	0.010072	0.005698	0.001598	0.015979
12-Nov-2027	0.016228	10.427300	16.318000	2.563840	36.594861	1.398430	0.017035	0.167394	0.037760	0.002905	0.001640	0.105250	0.000499	0.010113	0.005724	0.001605	0.016049
13-Nov-2027	0.016506	10.470100	16.385800	2.574080	36.743901	1.404310	0.017105	0.168086	0.037909	0.002917	0.001646	0.105651	0.000501	0.010154	0.005747	0.001612	0.016115
14-Nov-2027	0.016633	10.511300	16.450700	2.584110	36.888081	1.409900	0.017173	0.168750	0.038056	0.002929	0.001653	0.106057	0.000503	0.010194	0.005770	0.001618	0.016179
15-Nov-2027	0.016500	10.554800	16.519300	2.594630	37.040022	1.415820	0.017244	0.169452	0.038210	0.002941	0.001659	0.106477	0.000505	0.010235	0.005794	0.001625	0.016246
16-Nov-2027	0.016811	10.601000	16.592500	2.605680	37.200887	1.422170	0.017320	0.170200	0.038372	0.002953	0.001666	0.106907	0.000507	0.010279	0.005819	0.001632	0.016317
17-Nov-2027	0.017198	10.652500	16.674000	2.618080	37.380546	1.429230	0.017405	0.171033	0.038554	0.002967	0.001674	0.107395	0.000510	0.010329	0.005848	0.001640	0.016396
18-Nov-2027	0.017130	10.709700	16.764000	2.632000	37.580697	1.436980	0.017499	0.171954	0.038758	0.002983	0.001683	0.107955	0.000513	0.010384	0.005879	0.001648	0.016485
19-Nov-2027	0.016940	10.692900	16.738400	2.627600	37.520628	1.434840	0.017472	0.171688	0.038692	0.002978	0.001680	0.107758	0.000512	0.010367	0.005870	0.001646	0.016459
20-Nov-2027	0.017218	10.738300	16.810000	2.638660	37.679537	1.441010	0.017546	0.172421	0.038854	0.002991	0.001687	0.108203	0.000514	0.010410	0.005895	0.001653	0.016529
21-Nov-2027	0.017366	10.789700	16.890600	2.651190	37.859481	1.447950	0.017630	0.173247	0.039038	0.003005	0.001695	0.108711	0.000517	0.010460	0.005924	0.001661	0.016608
22-Nov-2027	0.017207	10.847900	16.982200	2.665380	38.063241	1.455820	0.017726	0.174185	0.039246	0.003021	0.001704	0.109284	0.000519	0.010516	0.005956	0.001670	0.016697
23-Nov-2027	0.017152	10.897000	17.060000	2.677140	38.234272	1.462570	0.017806	0.174979	0.039418	0.003035	0.001711	0.109742	0.000522	0.010563	0.005983	0.001677	0.016773
24-Nov-2027	0.017385	10.940800	17.129800	2.687520	38.386385	1.468650	0.017879	0.175691	0.039570	0.003047	0.001717	0.110134	0.000524	0.010604	0.006007	0.001684	0.016841
25-Nov-2027	0.017460	10.979600	17.189900	2.697220	38.523213	1.473750	0.017942	0.176309	0.039713	0.003058	0.001723	0.110548	0.000526	0.010642	0.006028	0.001690	0.016900
26-Nov-2027	0.017417	11.034800	17.277800	2.710580	38.716064	1.481410	0.018033	0.177206	0.039909	0.003073	0.001732	0.111077	0.000529	0.010695	0.006059	0.001699	0.016986
27-Nov-2027	0.017193	11.090100	17.364400	2.723900	38.909000	1.488860	0.018123	0.178093	0.040104	0.003088	0.001740	0.111602	0.000531	0.010748	0.006089	0.001707	0.017071
28-Nov-2027	0.017241	11.152800	17.463200	2.739130	39.128279	1.497350	0.018226	0.179105	0.040328	0.003105	0.001750	0.112212	0.000534	0.010808	0.006124	0.001717	0.017167
29-Nov-2027	0.017137	11.215600	17.562100	2.754420	39.348055	1.505860	0.018329	0.180117	0.040553	0.003123	0.001759	0.112826	0.000537	0.010869	0.006158	0.001726	0.017264
30-Nov-2027	0.016970	11.076600	17.345700	2.719840	38.858571	1.487420	0.018102	0.177893	0.040041	0.003084	0.001737	0.111377	0.000531	0.010733	0.006082	0.001705	0.017050
1-Dec-2027	0.017190	11.129800	17.428200	2.733170	39.046305	1.494430	0.018189	0.178741	0.040238	0.003099	0.001746	0.111946	0.000533	0.010785	0.006111	0.001713	0.017132
2-Dec-2027	0.017156	11.191300	17.523800	2.748460	39.262834	1.502580	0.018289	0.179723	0.040463	0.003116	0.001756	0.112590	0.000536	0.010845	0.006145	0.001723	0.017226
3-Dec-2027	0.016871	11.247000	17.611000	2.762170	39.458375	1.510050	0.018380	0.180617	0.040664	0.003132	0.001764	0.113154	0.000539	0.010899	0.006175	0.001731	0.017312
4-Dec-2027	0.016855	11.307900	17.706300	2.777180	39.672254	1.518210	0.018479	0.181595	0.040885	0.003149	0.001774	0.113772	0.000542	0.010958	0.006209	0.001741	0.017406
5-Dec-2027	0.016991	11.182100	17.509700	2.746150	39.230349	1.501390	0.018274	0.179577	0.040427	0.003114	0.001754	0.112492	0.000536	0.010836	0.006140	0.001721	0.017212
6-Dec-2027	0.016981	11.237800	17.596900	2.759840	39.425808	1.508870	0.018365	0.180471	0.040628	0.003129	0.001763	0.113054	0.000538	0.010890	0.006170	0.001730	0.017298
7-Dec-2027	0.016916	11.294900	17.686100	2.773890	39.626244	1.516500	0.018458	0.181385	0.040835	0.003145	0.001772	0.113633	0.000541	0.010945	0.006202	0.001739	0.017386
8-Dec-2027	0.016953	11.361600	17.790100	2.790410	39.860824	1.525380	0.018567	0.182453	0.041078	0.003164	0.001782	0.114322	0.000544	0.011010	0.006238	0.001749	0.017488
9-Dec-2027	0.016907	11.426200	17.890900	2.806390	40.087935	1.534000	0.018672	0.183488	0.041313	0.003182	0.001793	0.114987	0.000547	0.011073	0.006274	0.001759	0.017588
10-Dec-2027	0.016845	11.479900	17.974800	2.819660	40.276670	1.541180	0.018760	0.184349	0.041508	0.003197	0.001801	0.115538	0.000550	0.011126	0.006303	0.001767	0.017670

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
11-Dec-2027	0.016959	11.542100	18.072100	2.834960	40.494989	1.549510	0.018861	0.185346	0.041733	0.003214	0.001811	0.116166	0.000553	0.011186	0.006337	0.001777	0.017766
12-Dec-2027	0.016932	11.590800	18.148900	2.846750	40.665144	1.556150	0.018941	0.186133	0.041906	0.003228	0.001818	0.116634	0.000555	0.011233	0.006364	0.001784	0.017841
13-Dec-2027	0.016847	11.622100	18.198600	2.854250	40.774185	1.560460	0.018993	0.186640	0.042016	0.003236	0.001823	0.116925	0.000557	0.011262	0.006381	0.001789	0.017889
14-Dec-2027	0.016909	11.669800	18.272800	2.866090	40.942049	1.566780	0.019070	0.187402	0.042191	0.003250	0.001831	0.117422	0.000559	0.011309	0.006407	0.001796	0.017963
15-Dec-2027	0.016881	11.722300	18.353900	2.879320	41.127623	1.573650	0.019155	0.188237	0.042385	0.003265	0.001839	0.117994	0.000561	0.011361	0.006436	0.001804	0.018043
16-Dec-2027	0.016839	11.764000	18.418200	2.889910	41.275357	1.579080	0.019223	0.188899	0.042541	0.003277	0.001846	0.118456	0.000563	0.011402	0.006459	0.001811	0.018107
17-Dec-2027	0.016961	11.816800	18.500000	2.903150	41.461721	1.586030	0.019309	0.189741	0.042736	0.003292	0.001855	0.119023	0.000566	0.011454	0.006488	0.001819	0.018188
18-Dec-2027	0.016963	11.862300	18.571100	2.914330	41.621374	1.592130	0.019383	0.190471	0.042901	0.003304	0.001862	0.119482	0.000568	0.011498	0.006513	0.001826	0.018258
19-Dec-2027	0.016874	11.893200	18.620800	2.921480	41.727975	1.596490	0.019434	0.190976	0.043006	0.003312	0.001867	0.119738	0.000570	0.011527	0.006530	0.001831	0.018306
20-Dec-2027	0.016823	11.928700	18.678900	2.929470	41.849521	1.601650	0.019494	0.191563	0.043122	0.003322	0.001871	0.120000	0.000571	0.011559	0.006550	0.001836	0.018361
21-Dec-2027	0.016757	11.949100	18.714700	2.933310	41.916273	1.605010	0.019530	0.191920	0.043178	0.003326	0.001873	0.120054	0.000573	0.011576	0.006561	0.001839	0.018394
22-Dec-2027	0.016771	11.975900	18.759800	2.938980	42.006542	1.609100	0.019575	0.192372	0.043260	0.003333	0.001876	0.120204	0.000574	0.011599	0.006577	0.001844	0.018436
23-Dec-2027	0.016788	11.984700	18.775300	2.940570	42.035063	1.610560	0.019591	0.192526	0.043283	0.003334	0.001876	0.120221	0.000574	0.011606	0.006582	0.001845	0.018449
24-Dec-2027	0.016739	12.011500	18.818300	2.946840	42.127803	1.614330	0.019635	0.192963	0.043375	0.003342	0.001880	0.120451	0.000576	0.011631	0.006597	0.001849	0.018491
25-Dec-2027	0.016797	12.043300	18.868600	2.954510	42.238792	1.618680	0.019687	0.193478	0.043488	0.003350	0.001885	0.120752	0.000577	0.011662	0.006614	0.001854	0.018540
26-Dec-2027	0.016829	12.075900	18.920000	2.962410	42.352727	1.623120	0.019741	0.194004	0.043604	0.003359	0.001890	0.121066	0.000579	0.011693	0.006632	0.001859	0.018590
27-Dec-2027	0.016768	12.111100	18.975400	2.970980	42.475912	1.627880	0.019799	0.194571	0.043730	0.003369	0.001895	0.121410	0.000581	0.011727	0.006651	0.001864	0.018645
28-Dec-2027	0.016794	12.115400	18.983000	2.971800	42.490026	1.628600	0.019806	0.194646	0.043741	0.003370	0.001896	0.121433	0.000581	0.011730	0.006654	0.001865	0.018651
29-Dec-2027	0.016825	12.147400	19.033100	2.979630	42.602174	1.632900	0.019858	0.195160	0.043857	0.003379	0.001901	0.121755	0.000582	0.011761	0.006672	0.001870	0.018701
30-Dec-2027	0.016779	12.192900	19.104100	2.990830	42.761909	1.638980	0.019933	0.195889	0.044021	0.003392	0.001908	0.122204	0.000585	0.011805	0.006696	0.001877	0.018771
31-Dec-2027	0.016804	12.235600	19.171000	3.001340	42.911811	1.644700	0.020002	0.196575	0.044176	0.003403	0.001915	0.122636	0.000587	0.011847	0.006720	0.001884	0.018836
1-Jan-2028	0.016852	12.284700	19.247700	3.013430	43.084201	1.651270	0.020083	0.197362	0.044354	0.003417	0.001922	0.123135	0.000589	0.011895	0.006747	0.001891	0.018912
2-Jan-2028	0.016827	12.335700	19.327400	3.026020	43.263393	1.658100	0.020166	0.198180	0.044539	0.003431	0.001930	0.123655	0.000591	0.011944	0.006775	0.001899	0.018990
3-Jan-2028	0.016838	12.379400	19.395800	3.036780	43.416822	1.663950	0.020237	0.198881	0.044698	0.003444	0.001937	0.124099	0.000593	0.011987	0.006799	0.001906	0.019058
4-Jan-2028	0.016877	12.415800	19.452700	3.045730	43.544569	1.668830	0.020297	0.199465	0.044829	0.003454	0.001943	0.124467	0.000595	0.012022	0.006819	0.001911	0.019114
5-Jan-2028	0.016848	12.456100	19.515600	3.055660	43.686090	1.674210	0.020362	0.200111	0.044975	0.003465	0.001949	0.124877	0.000597	0.012061	0.006841	0.001918	0.019175
6-Jan-2028	0.016823	12.493000	19.573400	3.064780	43.815785	1.679160	0.020423	0.200703	0.045110	0.003475	0.001955	0.125253	0.000599	0.012097	0.006861	0.001923	0.019232
7-Jan-2028	0.016838	12.533600	19.636900	3.074750	43.958220	1.684600	0.020489	0.201354	0.045256	0.003487	0.001962	0.125663	0.000601	0.012136	0.006883	0.001929	0.019295
8-Jan-2028	0.016818	12.582300	19.713100	3.086700	44.129034	1.691130	0.020568	0.202136	0.045432	0.003500	0.001969	0.126153	0.000603	0.012183	0.006910	0.001937	0.019370
9-Jan-2028	0.016796	12.628000	19.784900	3.097890	44.289227	1.697300	0.020643	0.202872	0.045597	0.003513	0.001976	0.126606	0.000605	0.012228	0.006935	0.001944	0.019440
10-Jan-2028	0.016825	12.672900	19.855500	3.108830	44.446393	1.703370	0.020717	0.203595	0.045758	0.003525	0.001983	0.127048	0.000608	0.012271	0.006960	0.001951	0.019509
11-Jan-2028	0.016844	12.730100	19.945000	3.122860	44.646997	1.711060	0.020810	0.204513	0.045964	0.003541	0.001992	0.127621	0.000610	0.012326	0.006991	0.001960	0.019597
12-Jan-2028	0.016845	12.785700	20.032100	3.136510	44.842041	1.718530	0.020901	0.205406	0.046165	0.003557	0.002001	0.128179	0.000613	0.012380	0.007022	0.001968	0.019683
13-Jan-2028	0.016852	12.837300	20.113200	3.149120	45.022814	1.725500	0.020986	0.206237	0.046351	0.003571	0.002009	0.128689	0.000615	0.012430	0.007050	0.001976	0.019762
14-Jan-2028	0.016866	12.892000	20.199200	3.162400	45.214087	1.732900	0.021075	0.207118	0.046546	0.003586	0.002017	0.129222	0.000618	0.012483	0.007080	0.001985	0.019847
15-Jan-2028	0.016847	12.949200	20.289300	3.176310	45.414197	1.740670	0.021169	0.208041	0.046751	0.003602	0.002026	0.129779	0.000621	0.012538	0.007112	0.001993	0.019935
16-Jan-2028	0.016854	13.006500	20.379600	3.190220	45.614556	1.748450	0.021263	0.208965	0.046955	0.003618	0.002035	0.130334	0.000624	0.012593	0.007143	0.002002	0.020023
17-Jan-2028	0.016875	13.060000	20.464100	3.203120	45.801268	1.755760	0.021351	0.209829	0.047145	0.003632	0.002043	0.130841	0.000626	0.012644	0.007173	0.002011	0.020106
18-Jan-2028	0.016879	13.113100	20.548200	3.215890	45.986446	1.763030	0.021438	0.210689	0.047333	0.003647	0.002051	0.131340	0.000629	0.012695	0.007202	0.002019	0.020188
19-Jan-2028	0.016866	13.166600	20.632800	3.228750	46.172993	1.770350	0.021526	0.211554	0.047522	0.003661	0.002059	0.131843	0.000631	0.012746	0.007232	0.002027	0.020270
20-Jan-2028	0.016876	13.220200	20.717500	3.241660	46.359995	1.777680	0.021614	0.212420	0.047712	0.003676	0.002067	0.132350	0.000634	0.012797	0.007261	0.002035	0.020353
21-Jan-2028	0.016890	13.272200	20.799800	3.254210	46.541520	1.784790	0.021700	0.213262	0.047896	0.003690	0.002075	0.132844	0.000637	0.012847	0.007290	0.002043	0.020433
22-Jan-2028	0.016896	13.320900	20.876700	3.265940	46.711428	1.791430	0.021780	0.214048	0.048069	0.003704	0.002082	0.133306	0.000639	0.012893	0.007317	0.002051	0.020508
23-Jan-2028	0.016911	13.366400	20.948700	3.276890	46.870134	1.797670	0.021855	0.214785	0.048230	0.003716	0.002089	0.133734	0.000641	0.012937	0.007342	0.002058	0.020578
24-Jan-2028	0.016929	13.420800	21.034400	3.290080	47.060287	1.805060	0.021944	0.215662	0.048424	0.003731	0.002097	0.134259	0.000644	0.012989	0.007372	0.002066	0.020662
25-Jan-2028	0.016916	13.480700	21.128700	3.304640	47.269815	1.813180	0.022042	0.216628	0.048638	0.003748	0.002107	0.134843	0.000647	0.013047	0.007405	0.002075	0.020755
26-Jan-2028	0.016929	13.544400	21.229000	3.320150	47.492745	1.821810	0.022147	0.217654	0.048866	0.003765	0.002116	0.135465	0.000650	0.013108	0.007440	0.002085	0.020853
27-Jan-2028	0.016936	13.611200	21.334100	3.336410	47.726503	1.830860	0.022256	0.218731	0.049105	0.003784	0.002127	0.136119	0.000653	0.013172	0.007477	0.002096	0.020956
28-Jan-2028	0.016931	13.681200	21.444200	3.353470	47.971546	1.840330	0.022371	0.219858	0.049356	0.003803	0.002137	0.136805	0.000656	0.013240	0.007515	0.002106	0.021064
29-Jan-2028	0.016923	13.754200	21.558900	3.371260	48.227086	1.850210	0.022490	0.221034	0.049618	0.003823	0.002149	0.137522	0.000660	0.013310	0.007555	0.002118	0.021176
30-Jan-2028	0.016938	13.830100	21.678100	3.389740	48.492709	1.860460	0.022615	0.222255	0.049890	0.003844	0.002160	0.138267	0.000663	0.013383	0.007597	0.002129	0.021293
31-Jan-2028	0.016944	13.908600	21.801600	3.408900	48.767624	1.871080	0.022743	0.223520	0.050172	0.003866	0.002173	0.139040	0.000667	0.013459	0.007640	0.002141	0.021414
1-Feb-2028	0.016942	13.989000	21.927800	3.428490	49.049055	1.881940	0.022875	0.224813	0.050460	0.003888	0.002185	0.139830	0.000671	0.013536	0.007684	0.002154	0.021538

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
2-Feb-2028	0.016934	14.071100	22.056900	3.448530	49.336583	1.893040	0.023009	0.226136	0.050755	0.003911	0.002198	0.140639	0.000675	0.013616	0.007730	0.002166	0.021664
3-Feb-2028	0.016926	14.155400	22.189400	3.469100	49.631788	1.904440	0.023147	0.227493	0.051058	0.003934	0.002211	0.141469	0.000679	0.013697	0.007776	0.002179	0.021794
4-Feb-2028	0.016920	14.241700	22.324900	3.490140	49.933921	1.916080	0.023289	0.228881	0.051367	0.003958	0.002224	0.142319	0.000683	0.013780	0.007823	0.002193	0.021927
5-Feb-2028	0.016912	14.329600	22.463100	3.511610	50.241821	1.927970	0.023433	0.230297	0.051683	0.003982	0.002238	0.143187	0.000688	0.013865	0.007872	0.002206	0.022062
6-Feb-2028	0.016904	14.419300	22.603900	3.533480	50.555863	1.940070	0.023579	0.231739	0.052005	0.004007	0.002252	0.144071	0.000692	0.013952	0.007921	0.002220	0.022200
7-Feb-2028	0.016895	14.512200	22.749500	3.556250	50.881601	1.952570	0.023731	0.233232	0.052340	0.004033	0.002266	0.144999	0.000696	0.014041	0.007972	0.002234	0.022344
8-Feb-2028	0.016889	14.609700	22.902600	3.580060	51.223108	1.965730	0.023891	0.234801	0.052691	0.004060	0.002281	0.145964	0.000701	0.014136	0.008026	0.002249	0.022494
9-Feb-2028	0.016884	14.703600	23.050100	3.603010	51.552084	1.978410	0.024045	0.236313	0.053028	0.004086	0.002296	0.146893	0.000705	0.014226	0.008077	0.002264	0.022638
10-Feb-2028	0.016879	14.799300	23.200500	3.626320	51.887038	1.991350	0.024201	0.237854	0.053371	0.004113	0.002310	0.147830	0.000710	0.014318	0.008130	0.002279	0.022786
11-Feb-2028	0.016877	14.895400	23.351500	3.649820	52.223773	2.004320	0.024359	0.239401	0.053717	0.004139	0.002325	0.148784	0.000715	0.014411	0.008183	0.002293	0.022934
12-Feb-2028	0.016875	14.992300	23.503500	3.673510	52.563287	2.017380	0.024517	0.240959	0.054066	0.004166	0.002340	0.149745	0.000719	0.014505	0.008236	0.002308	0.023083
13-Feb-2028	0.016869	15.100400	23.673100	3.699930	52.942011	2.031950	0.024694	0.242697	0.054454	0.004196	0.002357	0.150817	0.000725	0.014609	0.008295	0.002325	0.023249
14-Feb-2028	0.016863	15.208300	23.842400	3.726320	53.320111	2.046500	0.024871	0.244432	0.054843	0.004226	0.002374	0.151888	0.000730	0.014714	0.008355	0.002342	0.023416
15-Feb-2028	0.016857	15.324200	24.024500	3.754650	53.726176	2.062150	0.025061	0.246298	0.055260	0.004258	0.002392	0.153036	0.000735	0.014825	0.008419	0.002359	0.023594
16-Feb-2028	0.016854	15.453300	24.227000	3.786190	54.178421	2.079550	0.025272	0.248374	0.055724	0.004294	0.002412	0.154314	0.000742	0.014950	0.008489	0.002379	0.023793
17-Feb-2028	0.016858	15.598100	24.454300	3.821620	54.685887	2.099080	0.025509	0.250704	0.056245	0.004334	0.002435	0.155753	0.000748	0.015090	0.008569	0.002402	0.024016
18-Feb-2028	0.016859	15.739800	24.676600	3.856290	55.182483	2.118170	0.025740	0.252982	0.056755	0.004373	0.002457	0.157162	0.000755	0.015227	0.008647	0.002423	0.024234
19-Feb-2028	0.016856	15.877400	24.892400	3.889960	55.664723	2.136700	0.025966	0.255194	0.057251	0.004412	0.002478	0.158532	0.000762	0.015360	0.008723	0.002445	0.024446
20-Feb-2028	0.016852	16.012300	25.104100	3.922990	56.137586	2.154880	0.026186	0.257363	0.057737	0.004449	0.002499	0.159874	0.000768	0.015490	0.008797	0.002465	0.024654
21-Feb-2028	0.016850	16.161000	25.337300	3.959390	56.658785	2.174900	0.026430	0.259754	0.058273	0.004490	0.002522	0.161355	0.000776	0.015634	0.008878	0.002488	0.024883
22-Feb-2028	0.016852	16.314000	25.577300	3.996800	57.194880	2.195520	0.026680	0.262214	0.058823	0.004533	0.002546	0.162875	0.000783	0.015782	0.008962	0.002512	0.025118
23-Feb-2028	0.016851	16.479500	25.837000	4.037300	57.774913	2.217830	0.026951	0.264876	0.059419	0.004579	0.002572	0.164520	0.000791	0.015942	0.009053	0.002537	0.025373
24-Feb-2028	0.016852	16.650100	26.104600	4.079060	58.372869	2.240800	0.027230	0.267619	0.060034	0.004626	0.002598	0.166218	0.000799	0.016107	0.009147	0.002564	0.025636
25-Feb-2028	0.016853	16.819500	26.370200	4.120520	58.966593	2.263610	0.027507	0.270342	0.060644	0.004673	0.002625	0.167906	0.000807	0.016271	0.009240	0.002590	0.025897
26-Feb-2028	0.016853	16.986400	26.632100	4.161400	59.551686	2.286100	0.027780	0.273026	0.061246	0.004720	0.002651	0.169569	0.000815	0.016432	0.009332	0.002615	0.026154
27-Feb-2028	0.016854	17.155800	26.897700	4.202870	60.145451	2.308900	0.028057	0.275749	0.061856	0.004767	0.002677	0.171257	0.000823	0.016596	0.009425	0.002641	0.026415
28-Feb-2028	0.016855	17.342000	27.189700	4.248460	60.798132	2.333970	0.028361	0.278742	0.062527	0.004818	0.002706	0.173113	0.000832	0.016776	0.009527	0.002670	0.026701
29-Feb-2028	0.016857	17.549400	27.515000	4.299260	61.525204	2.361900	0.028701	0.282076	0.063274	0.004876	0.002739	0.175181	0.000842	0.016977	0.009641	0.002702	0.027021
1-Mar-2028	0.016860	17.776200	27.870500	4.354780	62.320155	2.392420	0.029072	0.285721	0.064092	0.004939	0.002774	0.177442	0.000853	0.017196	0.009766	0.002737	0.027370
2-Mar-2028	0.016863	18.021100	28.254600	4.414770	63.178710	2.425400	0.029472	0.289658	0.064975	0.005007	0.002812	0.179884	0.000865	0.017433	0.009900	0.002775	0.027747
3-Mar-2028	0.016864	18.286700	28.671000	4.479820	64.109789	2.461150	0.029907	0.293928	0.065932	0.005081	0.002854	0.182534	0.000878	0.017690	0.010046	0.002816	0.028156
4-Mar-2028	0.016864	18.560400	29.100100	4.546860	65.069288	2.497980	0.030354	0.298327	0.066919	0.005157	0.002896	0.185265	0.000891	0.017954	0.010197	0.002858	0.028577
5-Mar-2028	0.016864	18.832600	29.527000	4.613540	66.023560	2.534630	0.030799	0.302703	0.067900	0.005232	0.002939	0.187981	0.000904	0.018218	0.010346	0.002900	0.028996
6-Mar-2028	0.016864	19.112600	29.966100	4.682140	67.005215	2.572320	0.031257	0.307204	0.068909	0.005310	0.002982	0.190775	0.000917	0.018489	0.010500	0.002943	0.029428
7-Mar-2028	0.016865	19.401800	30.419500	4.752970	68.019025	2.611240	0.031730	0.311852	0.069952	0.005390	0.003028	0.193661	0.000931	0.018768	0.010659	0.002987	0.029873
8-Mar-2028	0.016862	17.580100	27.561900	4.307110	61.634189	2.365840	0.028750	0.282561	0.063390	0.004885	0.002744	0.175531	0.000844	0.017007	0.009658	0.002707	0.027068
9-Mar-2028	0.016862	17.689800	27.734000	4.333970	62.018719	2.380620	0.028930	0.284325	0.063786	0.004915	0.002761	0.176624	0.000849	0.017113	0.009718	0.002724	0.027237
10-Mar-2028	0.016863	17.798800	27.904900	4.360650	62.400760	2.395300	0.029108	0.286077	0.064178	0.004945	0.002778	0.177710	0.000854	0.017219	0.009778	0.002740	0.027404
11-Mar-2028	0.016863	17.905100	28.071700	4.386690	62.773424	2.409620	0.029282	0.287787	0.064562	0.004975	0.002794	0.178769	0.000859	0.017322	0.009837	0.002757	0.027568
12-Mar-2028	0.016863	18.009200	28.234900	4.412170	63.138288	2.423630	0.029452	0.289460	0.064937	0.005004	0.002811	0.179806	0.000864	0.017422	0.009894	0.002773	0.027728
13-Mar-2028	0.016863	18.112700	28.397300	4.437520	63.501119	2.437570	0.029621	0.291124	0.065310	0.005033	0.002827	0.180838	0.000869	0.017522	0.009951	0.002789	0.027888
14-Mar-2028	0.016864	18.217800	28.562100	4.463250	63.869510	2.451730	0.029793	0.292814	0.065688	0.005062	0.002843	0.181885	0.000874	0.017624	0.010008	0.002805	0.028050
15-Mar-2028	0.016864	18.330600	28.739000	4.490870	64.264911	2.466910	0.029978	0.294627	0.066095	0.005093	0.002861	0.183010	0.000880	0.017733	0.010070	0.002822	0.028223
16-Mar-2028	0.016864	18.454100	28.932600	4.521120	64.697860	2.483540	0.030180	0.296612	0.066540	0.005127	0.002880	0.184241	0.000886	0.017852	0.010138	0.002841	0.028414
17-Mar-2028	0.016864	18.589700	29.145300	4.554330	65.173212	2.501790	0.030402	0.298792	0.067029	0.005165	0.002901	0.185593	0.000892	0.017984	0.010213	0.002862	0.028622
18-Mar-2028	0.016864	18.739900	29.380700	4.591100	65.699680	2.522000	0.030647	0.301206	0.067570	0.005207	0.002925	0.187091	0.000899	0.018129	0.010295	0.002885	0.028853
19-Mar-2028	0.016864	18.893500	29.621600	4.628720	66.238138	2.542680	0.030898	0.303675	0.068124	0.005249	0.002949	0.188623	0.000907	0.018277	0.010380	0.002909	0.029090
20-Mar-2028	0.016864	19.056800	29.877700	4.668720	66.810619	2.564670	0.031165	0.306300	0.068712	0.005295	0.002974	0.190252	0.000914	0.018435	0.010469	0.002934	0.029341
21-Mar-2028	0.016864	19.228300	30.146700	4.710750	67.411934	2.587760	0.031446	0.309058	0.069331	0.005343	0.003001	0.191964	0.000923	0.018601	0.010564	0.002961	0.029606
22-Mar-2028	0.016864	19.409800	30.431200	4.755200	68.048184	2.612190	0.031743	0.311975	0.069985	0.005393	0.003029	0.193775	0.000931	0.018777	0.010663	0.002989	0.029885
23-Mar-2028	0.016864	19.601600	30.731900	4.802180	68.720572	2.638000	0.032057	0.315058	0.070676	0.005446	0.003059	0.195689	0.000941	0.018962	0.010769	0.003018	0.030180
24-Mar-2028	0.016864	19.802800	31.047300	4.851450	69.425863	2.665080	0.032385	0.318291	0.071402	0.005502	0.003090	0.197696	0.000950	0.019157	0.010879	0.003049	0.030490
25-Mar-2028	0.016864	20.016200	31.382000	4.903740	70.174053	2.693800	0.032735	0.321722	0.072171	0.005561	0.003124	0.199826	0.000961	0.019363	0.010996	0.003082	0.030819

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
26-Mar-2028	0.016864	20.239700	31.732400	4.958490	70.957593	2.723880	0.033100	0.325314	0.072977	0.005623	0.003159	0.202057	0.000971	0.019580	0.011119	0.003116	0.031163
27-Mar-2028	0.016864	20.473100	32.098300	5.015670	71.775860	2.755300	0.033482	0.329066	0.073818	0.005688	0.003195	0.204387	0.000982	0.019805	0.011247	0.003152	0.031522
28-Mar-2028	0.016864	20.716000	32.479200	5.075180	72.627443	2.787990	0.033879	0.332970	0.074694	0.005756	0.003233	0.206811	0.000994	0.020040	0.011381	0.003190	0.031896
29-Mar-2028	0.016864	20.968400	32.874900	5.137010	73.512302	2.821960	0.034292	0.337027	0.075604	0.005826	0.003272	0.209331	0.001006	0.020284	0.011520	0.003228	0.032285
30-Mar-2028	0.016864	21.230000	33.285000	5.201080	74.429357	2.857170	0.034720	0.341231	0.076547	0.005899	0.003313	0.211942	0.001019	0.020537	0.011663	0.003269	0.032688
31-Mar-2028	0.016864	21.501000	33.709900	5.267480	75.379480	2.893640	0.035163	0.345587	0.077524	0.005974	0.003355	0.214647	0.001032	0.020800	0.011812	0.003310	0.033105
1-Apr-2028	0.016864	21.781400	34.149600	5.336170	76.362504	2.931380	0.035621	0.350094	0.078535	0.006052	0.003399	0.217446	0.001045	0.021071	0.011966	0.003354	0.033537
2-Apr-2028	0.016864	22.061300	34.588300	5.404730	77.343744	2.969040	0.036079	0.354592	0.079544	0.006130	0.003443	0.220239	0.001059	0.021342	0.012120	0.003397	0.033967
3-Apr-2028	0.016864	22.311500	34.980600	5.466020	78.220886	3.002710	0.036488	0.358614	0.080447	0.006199	0.003482	0.222737	0.001071	0.021584	0.012257	0.003435	0.034353
4-Apr-2028	0.016864	22.521500	35.309900	5.517470	78.957127	3.030980	0.036832	0.361990	0.081204	0.006257	0.003515	0.224834	0.001081	0.021787	0.012373	0.003468	0.034676
5-Apr-2028	0.016864	22.694800	35.581600	5.559930	79.564707	3.054300	0.037115	0.364775	0.081829	0.006306	0.003542	0.226563	0.001089	0.021954	0.012468	0.003494	0.034943
6-Apr-2028	0.016864	22.837500	35.805400	5.594900	80.065036	3.073510	0.037349	0.367070	0.082343	0.006345	0.003564	0.227988	0.001096	0.022093	0.012546	0.003516	0.035163
7-Apr-2028	0.016864	22.955500	35.990400	5.623810	80.478733	3.089400	0.037542	0.368966	0.082769	0.006378	0.003582	0.229166	0.001102	0.022207	0.012611	0.003534	0.035344
8-Apr-2028	0.016864	23.053600	36.144200	5.647840	80.822644	3.102600	0.037702	0.370543	0.083122	0.006405	0.003598	0.230146	0.001106	0.022302	0.012665	0.003550	0.035495
9-Apr-2028	0.016864	23.135600	36.272800	5.667930	81.110129	3.113630	0.037836	0.371861	0.083418	0.006428	0.003611	0.230964	0.001110	0.022381	0.012710	0.003562	0.035622
10-Apr-2028	0.016864	23.204300	36.380500	5.684760	81.350979	3.122880	0.037948	0.372965	0.083666	0.006447	0.003621	0.231650	0.001114	0.022447	0.012748	0.003573	0.035727
11-Apr-2028	0.016864	23.262600	36.471800	5.699030	81.555318	3.130720	0.038044	0.373902	0.083876	0.006463	0.003630	0.232232	0.001116	0.022504	0.012780	0.003582	0.035817
12-Apr-2028	0.016864	23.309900	36.546000	5.710620	81.721153	3.137090	0.038121	0.374662	0.084046	0.006477	0.003638	0.232704	0.001119	0.022549	0.012806	0.003589	0.035890
13-Apr-2028	0.016864	23.349900	36.608800	5.720430	81.861431	3.142480	0.038187	0.375306	0.084191	0.006488	0.003644	0.233104	0.001121	0.022588	0.012828	0.003595	0.035952
14-Apr-2028	0.016864	23.383900	36.662100	5.728760	81.980632	3.147050	0.038242	0.375852	0.084313	0.006497	0.003649	0.233443	0.001122	0.022621	0.012847	0.003600	0.036004
15-Apr-2028	0.016864	23.412800	36.707300	5.735830	82.081910	3.150930	0.038289	0.376316	0.084417	0.006505	0.003654	0.233731	0.001124	0.022649	0.012862	0.003605	0.036048
16-Apr-2028	0.016864	23.437300	36.745800	5.741840	82.167835	3.154240	0.038330	0.376710	0.084506	0.006512	0.003658	0.233976	0.001125	0.022673	0.012876	0.003609	0.036086
17-Apr-2028	0.016864	23.458500	36.778900	5.747020	82.242103	3.157080	0.038364	0.377050	0.084582	0.006518	0.003661	0.234187	0.001126	0.022693	0.012887	0.003612	0.036119
18-Apr-2028	0.016864	23.476800	36.807700	5.751520	82.306329	3.159550	0.038394	0.377345	0.084648	0.006523	0.003664	0.234371	0.001127	0.022711	0.012898	0.003615	0.036147
19-Apr-2028	0.016864	23.492800	36.832700	5.755430	82.362382	3.161700	0.038420	0.377601	0.084706	0.006527	0.003666	0.234530	0.001127	0.022726	0.012906	0.003617	0.036172
20-Apr-2028	0.016864	23.506800	36.854600	5.758860	82.411465	3.163580	0.038443	0.377826	0.084756	0.006531	0.003668	0.234670	0.001128	0.022740	0.012914	0.003619	0.036193
21-Apr-2028	0.016864	23.519200	36.874200	5.761910	82.454988	3.165260	0.038463	0.378027	0.084801	0.006535	0.003670	0.234794	0.001129	0.022752	0.012921	0.003621	0.036212
22-Apr-2028	0.016864	23.530400	36.891700	5.764650	82.494238	3.166760	0.038482	0.378206	0.084842	0.006538	0.003672	0.234906	0.001129	0.022763	0.012927	0.003623	0.036229
23-Apr-2028	0.016864	23.540500	36.907500	5.767110	82.529587	3.168120	0.038498	0.378368	0.084878	0.006541	0.003674	0.235006	0.001130	0.022773	0.012933	0.003624	0.036245
24-Apr-2028	0.016864	23.549600	36.921900	5.769360	82.561576	3.169350	0.038513	0.378515	0.084911	0.006543	0.003675	0.235098	0.001130	0.022781	0.012938	0.003626	0.036259
25-Apr-2028	0.016864	23.558000	36.935000	5.771420	82.591034	3.170480	0.038527	0.378650	0.084941	0.006545	0.003676	0.235182	0.001131	0.022790	0.012942	0.003627	0.036272
26-Apr-2028	0.016864	23.565800	36.947200	5.773320	82.618334	3.171520	0.038540	0.378775	0.084969	0.006548	0.003678	0.235259	0.001131	0.022797	0.012946	0.003628	0.036284
27-Apr-2028	0.016864	23.573000	36.958500	5.775090	82.643602	3.172500	0.038551	0.378891	0.084995	0.006550	0.003679	0.235332	0.001131	0.022804	0.012950	0.003630	0.036295
28-Apr-2028	0.016863	23.579800	36.969200	5.776750	82.667417	3.173410	0.038563	0.379000	0.085020	0.006551	0.003680	0.235399	0.001132	0.022811	0.012954	0.003631	0.036306
29-Apr-2028	0.016880	23.586200	36.979300	5.778330	82.689904	3.174280	0.038573	0.379104	0.085043	0.006553	0.003681	0.235464	0.001132	0.022817	0.012958	0.003632	0.036315
30-Apr-2028	0.017055	23.592400	36.988900	5.779840	82.711604	3.175100	0.038583	0.379203	0.085065	0.006555	0.003682	0.235525	0.001132	0.022823	0.012961	0.003632	0.036325
1-May-2028	0.018040	23.596300	36.994900	5.780780	82.725213	3.175620	0.038589	0.379265	0.085079	0.006556	0.003682	0.235564	0.001132	0.022827	0.012963	0.003633	0.036331
2-May-2028	0.021776	23.573600	36.959400	5.775230	82.645676	3.172570	0.038552	0.378900	0.084997	0.006550	0.003679	0.235338	0.001131	0.022805	0.012951	0.003630	0.036296
3-May-2028	0.025629	23.467500	36.793100	5.749260	82.273800	3.158300	0.038379	0.377196	0.084615	0.006520	0.003662	0.234279	0.001126	0.022702	0.012892	0.003613	0.036133
4-May-2028	0.029547	23.251600	36.454500	5.696360	81.516856	3.129230	0.038026	0.373724	0.083836	0.006460	0.003629	0.232124	0.001116	0.022493	0.012774	0.003580	0.035800
5-May-2028	0.034058	23.090400	36.201700	5.656870	80.951719	3.107520	0.037762	0.371133	0.083255	0.006416	0.003604	0.230517	0.001108	0.022337	0.012685	0.003555	0.035552
6-May-2028	0.038150	22.747400	35.664000	5.572860	79.749295	3.061370	0.037201	0.365621	0.082019	0.006320	0.003550	0.227094	0.001092	0.022005	0.012497	0.003502	0.035024
7-May-2028	0.042403	22.349300	35.039800	5.475320	78.353570	3.007790	0.036550	0.359221	0.080583	0.006210	0.003488	0.223119	0.001073	0.021620	0.012278	0.003441	0.034411
8-May-2028	0.046655	21.922000	34.370000	5.370640	76.855530	2.950290	0.035851	0.352354	0.079043	0.006091	0.003421	0.218852	0.001052	0.021207	0.012043	0.003375	0.033753
9-May-2028	0.054551	21.495300	33.701000	5.266090	75.359523	2.892870	0.035154	0.345496	0.077504	0.005972	0.003355	0.214591	0.001032	0.020794	0.011809	0.003310	0.033096
10-May-2028	0.060816	21.075200	33.042400	5.163150	73.886626	2.836340	0.034466	0.338743	0.075989	0.005856	0.003289	0.210395	0.001011	0.020388	0.011578	0.003245	0.032449
11-May-2028	0.066317	20.660000	32.391400	5.061410	72.430906	2.780460	0.033787	0.332070	0.074492	0.005740	0.003224	0.206248	0.000991	0.019986	0.011350	0.003181	0.031810
12-May-2028	0.070897	20.221900	31.704600	4.954060	70.894903	2.721510	0.033071	0.325028	0.072912	0.005618	0.003156	0.201872	0.000970	0.019562	0.011109	0.003114	0.031135
13-May-2028	0.076116	19.386100	30.394500	4.749250	67.964503	2.609070	0.031704	0.311597	0.069897	0.005386	0.003025	0.193520	0.000930	0.018753	0.010650	0.002985	0.029849
14-May-2028	0.080160	18.964400	29.733400	4.645930	66.486047	2.552330	0.031015	0.304820	0.068377	0.005269	0.002959	0.189308	0.000910	0.018345	0.010419	0.002920	0.029199
15-May-2028	0.089137	18.542900	29.072600	4.542640	65.008213	2.495610	0.030326	0.298045	0.066856	0.005152	0.002894	0.185097	0.000890	0.017938	0.010187	0.002855	0.028550
16-May-2028	0.113878	18.124700	28.417000	4.440150	63.541914	2.439340	0.029642	0.291324	0.065348	0.005036	0.002828	0.180919	0.000870	0.017533	0.009957	0.002791	0.027907
17-May-2028	0.118203	17.724700	27.789900	4.342130	62.139467	2.385520	0.028987	0.284895	0.063905	0.004924	0.002766	0.176922	0.000851	0.017146	0.009738	0.002729	0.027291

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
18-May-2028	0.121183	17.362500	27.222200	4.253380	60.869581	2.336790	0.028395	0.279074	0.062599	0.004824	0.002709	0.173303	0.000833	0.016796	0.009539	0.002673	0.026733
19-May-2028	0.130798	16.462000	25.810300	4.032760	57.712520	2.215590	0.026922	0.264599	0.059352	0.004574	0.002569	0.164314	0.000790	0.015924	0.009044	0.002535	0.025346
20-May-2028	0.141951	15.337300	24.046800	3.757250	53.769594	2.064200	0.025083	0.246521	0.055298	0.004261	0.002393	0.153089	0.000736	0.014836	0.008426	0.002361	0.023615
21-May-2028	0.158121	14.489500	22.719100	3.549140	50.795640	1.950320	0.023697	0.232901	0.052236	0.004025	0.002260	0.144566	0.000695	0.014015	0.007960	0.002231	0.022310
22-May-2028	0.179966	14.245000	22.335400	3.489360	49.938949	1.917330	0.023296	0.228962	0.051359	0.003957	0.002223	0.142134	0.000684	0.013779	0.007826	0.002193	0.021933
23-May-2028	0.192612	13.901200	21.795300	3.405440	48.734898	1.870840	0.022732	0.223413	0.050131	0.003861	0.002169	0.138724	0.000667	0.013448	0.007637	0.002140	0.021403
24-May-2028	0.210783	13.635600	21.378700	3.340400	47.803860	1.835070	0.022297	0.219142	0.049175	0.003787	0.002128	0.136075	0.000654	0.013191	0.007491	0.002099	0.020994
25-May-2028	0.230028	13.397500	21.005200	3.282110	46.969286	1.802980	0.021908	0.215311	0.048318	0.003721	0.002091	0.133702	0.000643	0.012961	0.007360	0.002063	0.020627
26-May-2028	0.245252	13.167300	20.643900	3.225810	46.162634	1.771930	0.021531	0.211603	0.047492	0.003657	0.002055	0.131411	0.000632	0.012739	0.007234	0.002027	0.020272
27-May-2028	0.260995	13.007000	20.392500	3.186640	45.601063	1.750310	0.021268	0.209021	0.046917	0.003612	0.002030	0.129817	0.000624	0.012584	0.007146	0.002003	0.020025
28-May-2028	0.277757	12.899500	20.223300	3.160430	45.224702	1.735720	0.021091	0.207281	0.046534	0.003582	0.002014	0.128753	0.000619	0.012481	0.007086	0.001986	0.019859
29-May-2028	0.298667	13.957500	21.884300	3.419050	48.931525	1.878560	0.022826	0.224334	0.050327	0.003877	0.002178	0.139274	0.000670	0.013502	0.007668	0.002149	0.021490
30-May-2028	0.312175	13.983900	21.925600	3.425470	49.023884	1.882120	0.022869	0.224759	0.050422	0.003884	0.002182	0.139536	0.000671	0.013527	0.007683	0.002153	0.021531
31-May-2028	0.335152	12.745800	19.983900	3.122370	44.684182	1.715370	0.020843	0.204848	0.045964	0.003540	0.001989	0.127195	0.000612	0.012330	0.007002	0.001962	0.019624
1-Jun-2028	0.362606	12.429100	19.487200	3.044800	43.573949	1.672730	0.020325	0.199756	0.044822	0.003452	0.001940	0.124036	0.000596	0.012024	0.006828	0.001914	0.019136
2-Jun-2028	0.401040	12.173000	19.081400	2.983310	42.681252	1.637330	0.019897	0.195543	0.043945	0.003380	0.001902	0.121568	0.000584	0.011781	0.006687	0.001874	0.018738
3-Jun-2028	0.606635	11.791200	18.478100	2.894320	41.361436	1.584990	0.019267	0.189349	0.042844	0.003272	0.001855	0.118158	0.000565	0.011432	0.006476	0.001816	0.018157
4-Jun-2028	0.702648	11.450000	17.918800	2.814720	40.181667	1.533980	0.018671	0.183472	0.041790	0.003169	0.001809	0.114937	0.000548	0.011118	0.006285	0.001764	0.017644
5-Jun-2028	0.845021	11.215700	17.541200	2.760300	39.372518	1.500320	0.018272	0.179541	0.040987	0.003101	0.001774	0.112806	0.000536	0.010904	0.006155	0.001729	0.017288
6-Jun-2028	0.934472	10.918000	17.067500	2.694230	38.357085	1.458910	0.017775	0.174645	0.040333	0.003016	0.001744	0.110357	0.000521	0.010646	0.005990	0.001683	0.016830
7-Jun-2028	0.971401	10.678200	16.656500	2.640770	37.538156	1.419390	0.017323	0.170152	0.039755	0.002939	0.001719	0.108288	0.000508	0.010437	0.005853	0.001646	0.016463
8-Jun-2028	1.042485	10.406900	16.220700	2.577340	36.599515	1.380800	0.016864	0.165635	0.039223	0.002860	0.001694	0.106100	0.000494	0.010187	0.005702	0.001605	0.016048
9-Jun-2028	1.167919	10.162200	15.791000	2.533850	35.809408	1.339310	0.016392	0.160935	0.039031	0.002779	0.001676	0.104715	0.000480	0.010025	0.005560	0.001567	0.015674
10-Jun-2028	1.357161	9.940420	15.419800	2.483130	35.046758	1.303670	0.015988	0.156908	0.038763	0.002709	0.001653	0.102876	0.000468	0.009823	0.005436	0.001534	0.015338
11-Jun-2028	1.600521	9.748650	15.092300	2.444040	34.406936	1.272490	0.015635	0.153387	0.038535	0.002648	0.001637	0.101574	0.000458	0.009677	0.005326	0.001505	0.015049
12-Jun-2028	1.831431	9.627140	14.884400	2.418890	33.999958	1.252790	0.015414	0.151187	0.038245	0.002611	0.001625	0.100646	0.000451	0.009576	0.005257	0.001487	0.014870
13-Jun-2028	1.994035	9.475030	14.621600	2.388320	33.494252	1.227510	0.015131	0.148340	0.037673	0.002563	0.001612	0.099587	0.000442	0.009460	0.005170	0.001464	0.014642
14-Jun-2028	2.126278	9.308090	14.332600	2.354760	32.939202	1.199730	0.014821	0.145227	0.037693	0.002511	0.001601	0.098634	0.000433	0.009333	0.005075	0.001439	0.014391
15-Jun-2028	2.229097	9.130850	14.024000	2.319560	32.351681	1.169890	0.014490	0.141907	0.037789	0.002456	0.001587	0.097463	0.000423	0.009201	0.004973	0.001413	0.014125
16-Jun-2028	2.290346	8.960000	13.725400	2.285950	31.786662	1.140890	0.014170	0.138700	0.037850	0.002402	0.001575	0.096437	0.000413	0.009075	0.004875	0.001387	0.013870
17-Jun-2028	2.311067	8.807510	13.456700	2.256440	31.284372	1.114620	0.013882	0.135819	0.037927	0.002354	0.001565	0.095630	0.000404	0.008965	0.004788	0.001364	0.013641
18-Jun-2028	2.314094	8.642950	13.168000	2.224260	30.740949	1.086490	0.013574	0.132733	0.037909	0.002303	0.001555	0.094804	0.000395	0.008845	0.004694	0.001339	0.013394
19-Jun-2028	2.309798	8.484660	12.888200	2.193700	30.219853	1.059130	0.013276	0.129758	0.037805	0.002254	0.001544	0.094131	0.000386	0.008732	0.004603	0.001316	0.013158
20-Jun-2028	2.306240	8.324220	12.609300	2.161340	29.685975	1.032360	0.012981	0.126811	0.037694	0.002206	0.001533	0.094146	0.000377	0.008612	0.004512	0.001292	0.012916
21-Jun-2028	2.310751	8.236840	12.453400	2.144670	29.399141	1.017150	0.012821	0.125209	0.037595	0.002181	0.001527	0.094563	0.000372	0.008552	0.004462	0.001279	0.012788
22-Jun-2028	2.329589	8.099350	12.213900	2.116840	28.941224	0.994244	0.012570	0.122695	0.037492	0.002141	0.001516	0.094924	0.000364	0.008450	0.004383	0.001258	0.012581
23-Jun-2028	2.393840	7.933350	11.923900	2.083480	28.389346	0.966390	0.012266	0.119632	0.037420	0.002092	0.001505	0.095122	0.000354	0.008328	0.004289	0.001233	0.012331
24-Jun-2028	2.519524	7.829280	11.738600	2.063510	28.047246	0.948306	0.012073	0.117692	0.037307	0.002061	0.001499	0.096062	0.000348	0.008256	0.004229	0.001218	0.012177
25-Jun-2028	2.707294	7.725780	11.553300	2.044090	27.708835	0.930063	0.011880	0.115755	0.037137	0.002029	0.001494	0.096165	0.000342	0.008185	0.004170	0.001203	0.012026
26-Jun-2028	2.980415	7.558410	11.260500	2.010430	27.152301	0.901939	0.011572	0.112659	0.037001	0.001981	0.001482	0.095919	0.000333	0.008063	0.004075	0.001177	0.011771
27-Jun-2028	3.338796	7.420050	11.017800	1.982950	26.693653	0.878508	0.011317	0.110102	0.036650	0.001940	0.001473	0.095885	0.000325	0.007962	0.003996	0.001156	0.011563
28-Jun-2028	3.693443	7.298590	10.800700	1.959920	26.295530	0.857213	0.011091	0.107827	0.036425	0.001904	0.001467	0.097052	0.000317	0.007879	0.003926	0.001138	0.011384
29-Jun-2028	4.048226	7.181570	10.592900	1.937310	25.910223	0.836958	0.010874	0.105644	0.036277	0.001869	0.001460	0.097578	0.000311	0.007798	0.003859	0.001121	0.011209
30-Jun-2028	4.436882	7.041110	10.344700	1.909800	25.446208	0.812870	0.010614	0.103027	0.036190	0.001827	0.001452	0.097266	0.000303	0.007698	0.003779	0.001100	0.010997
1-Jul-2028	5.557773	6.072200	8.645400	1.728740	22.281235	0.645372	0.008809	0.085189	0.034574	0.001582	0.001403	0.089777	0.000246	0.006982	0.003217	0.000962	0.009616
2-Jul-2028	6.637835	5.805120	8.139630	1.666880	21.359596	0.601419	0.008407	0.081008	0.034255	0.001613	0.001396	0.092359	0.000231	0.006966	0.003079	0.000915	0.009151
3-Jul-2028	7.248899	6.026170	8.563740	1.702100	22.056594	0.642926	0.008785	0.084810	0.033670	0.001565	0.001387	0.088510	0.000245	0.006980	0.003208	0.000950	0.009498
4-Jul-2028	8.108472	6.203820	8.890240	1.730020	22.615161	0.675599	0.009108	0.088042	0.033541	0.001598	0.001382	0.087606	0.000256	0.007105	0.003315	0.000977	0.009767
5-Jul-2028	9.451028	5.939800	8.413740	1.685540	21.772734	0.629100	0.008635	0.083330	0.033295	0.001564	0.001378	0.086555	0.000240	0.006957	0.003158	0.000936	0.009357
6-Jul-2028	10.256713	6.263880	8.983820	1.736470	22.791692	0.686674	0.009240	0.089360	0.033550	0.001650	0.001380	0.085483	0.000259	0.007178	0.003357	0.000984	0.009836
7-Jul-2028	10.995305	6.144390	8.767160	1.718040	22.417431	0.664962	0.009021	0.087176	0.033355	0.001613	0.001381	0.087933	0.000252	0.007086	0.003284	0.000966	0.009655
8-Jul-2028	11.960743	6.079540	8.654090	1.709550	22.220538	0.653279	0.008895	0.085921	0.033349	0.001617	0.001381	0.086007	0.000248	0.007052	0.003242	0.000956	0.009557
9-Jul-2028	12.476276	6.123980	8.736550	1.717340	22.363584	0.661437	0.008974	0.086710	0.033344	0.001621	0.001383	0.086744	0.000251	0.007048	0.003268	0.000962	0.009623

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
10-Jul-2028	12.990489	6.271630	9.005540	1.741260	22.830769	0.688265	0.009242	0.089395	0.033482	0.001664	0.001385	0.086541	0.000260	0.007154	0.003356	0.000985	0.009846
11-Jul-2028	12.758266	6.279660	9.019250	1.743740	22.861032	0.689526	0.009255	0.089525	0.033337	0.001657	0.001385	0.086371	0.000260	0.007155	0.003360	0.000986	0.009855
12-Jul-2028	12.233786	6.310820	9.076710	1.749840	22.963959	0.695111	0.009310	0.090066	0.033253	0.001660	0.001384	0.086372	0.000262	0.007172	0.003377	0.000990	0.009901
13-Jul-2028	12.016012	6.399930	9.240000	1.764380	23.246342	0.711345	0.009470	0.091673	0.033331	0.001687	0.001385	0.086831	0.000267	0.007234	0.003430	0.001004	0.010036
14-Jul-2028	11.930078	6.436300	9.306460	1.771310	23.365696	0.717830	0.009534	0.092310	0.033329	0.001698	0.001385	0.086067	0.000270	0.007255	0.003451	0.001009	0.010089
15-Jul-2028	11.606526	6.472000	9.371330	1.777780	23.481482	0.724206	0.009598	0.092942	0.033341	0.001709	0.001387	0.085538	0.000272	0.007278	0.003472	0.001014	0.010142
16-Jul-2028	11.026750	6.517310	9.454190	1.786010	23.628512	0.732345	0.009678	0.093742	0.033349	0.001723	0.001388	0.085665	0.000275	0.007306	0.003498	0.001021	0.010210
17-Jul-2028	10.837991	6.545260	9.504440	1.791320	23.720170	0.737344	0.009729	0.094248	0.033345	0.001733	0.001389	0.086469	0.000276	0.007323	0.003514	0.001025	0.010250
18-Jul-2028	11.657807	6.692060	9.772270	1.814290	24.181320	0.764140	0.009996	0.096921	0.033531	0.001778	0.001392	0.086532	0.000285	0.007431	0.003602	0.001047	0.010472
19-Jul-2028	11.851205	6.685330	9.760240	1.813690	24.162044	0.762846	0.009982	0.096785	0.033505	0.001775	0.001392	0.087184	0.000285	0.007424	0.003598	0.001046	0.010461
20-Jul-2028	12.532338	6.808730	9.986590	1.835550	24.560194	0.785147	0.010202	0.098983	0.033564	0.001812	0.001396	0.086875	0.000292	0.007502	0.003669	0.001065	0.010646
21-Jul-2028	12.349474	6.903190	10.157900	1.850660	24.858283	0.802280	0.010374	0.100698	0.033669	0.001842	0.001398	0.086699	0.000298	0.007571	0.003726	0.001079	0.010787
22-Jul-2028	13.084638	6.925630	10.199200	1.854080	24.928400	0.806382	0.010414	0.101098	0.033697	0.001848	0.001398	0.086350	0.000299	0.007587	0.003739	0.001082	0.010821
23-Jul-2028	13.557611	6.864190	10.089600	1.847010	24.745870	0.795032	0.010296	0.099917	0.033482	0.001829	0.001398	0.087014	0.000296	0.007526	0.003699	0.001073	0.010727
24-Jul-2028	14.222859	6.896450	10.145400	1.853130	24.851625	0.800552	0.010354	0.100479	0.033495	0.001841	0.001399	0.087277	0.000298	0.007550	0.003718	0.001077	0.010771
25-Jul-2028	13.845437	7.033900	10.392300	1.875400	25.286546	0.825370	0.010607	0.103006	0.033652	0.001889	0.001403	0.087381	0.000306	0.007653	0.003801	0.001097	0.010975
26-Jul-2028	13.308008	6.959860	10.259800	1.864920	25.058511	0.811870	0.010468	0.101618	0.033481	0.001863	0.001401	0.087620	0.000302	0.007590	0.003754	0.001086	0.010863
27-Jul-2028	13.010446	7.213590	10.723200	1.905290	25.858318	0.858175	0.010929	0.106238	0.033793	0.001941	0.001407	0.087449	0.000317	0.007773	0.003907	0.001125	0.011247
28-Jul-2028	12.945045	7.185410	10.670500	1.901460	25.772181	0.852778	0.010877	0.105706	0.033754	0.001932	0.001407	0.087098	0.000315	0.007753	0.003889	0.001120	0.011204
29-Jul-2028	12.626983	7.418910	11.099200	1.939220	26.510726	0.895577	0.011300	0.109937	0.033975	0.002003	0.001412	0.087721	0.000330	0.007914	0.004028	0.001156	0.011556
30-Jul-2028	12.368800	7.212190	10.721400	1.908310	25.867259	0.857506	0.010919	0.106119	0.033643	0.001939	0.001408	0.087476	0.000317	0.007756	0.003902	0.001124	0.011241
31-Jul-2028	12.654917	7.347920	10.970600	1.930360	26.296979	0.882341	0.011165	0.108577	0.033773	0.001980	0.001411	0.087682	0.000325	0.007850	0.003983	0.001145	0.011446
1-Aug-2028	12.940689	7.289620	10.863600	1.920960	26.112694	0.871650	0.011058	0.107512	0.033709	0.001962	0.001410	0.088068	0.000322	0.007809	0.003948	0.001136	0.011357
2-Aug-2028	13.588393	7.254290	10.799200	1.915660	26.002650	0.865138	0.010993	0.106853	0.033651	0.001951	0.001409	0.087828	0.000320	0.007782	0.003926	0.001130	0.011304
3-Aug-2028	13.992501	7.305050	10.893900	1.924790	26.166995	0.874390	0.011080	0.107725	0.033654	0.001965	0.001410	0.088043	0.000323	0.007811	0.003955	0.001138	0.011381
4-Aug-2028	14.258858	7.364080	11.006400	1.937190	26.365456	0.884964	0.011170	0.108606	0.033564	0.001980	0.001412	0.088183	0.000326	0.007833	0.003987	0.001147	0.011470
5-Aug-2028	14.607859	7.592330	11.433100	1.977340	27.100734	0.926677	0.011558	0.112449	0.033742	0.002044	0.001416	0.088174	0.000341	0.007964	0.004118	0.001182	0.011816
6-Aug-2028	15.070164	7.615620	11.468300	1.977820	27.160866	0.930834	0.011616	0.113046	0.033791	0.002054	0.001417	0.088704	0.000342	0.008006	0.004137	0.001185	0.011848
7-Aug-2028	15.283599	7.646180	11.523000	1.985220	27.267647	0.935914	0.011661	0.113459	0.033718	0.002066	0.001419	0.088812	0.000344	0.008017	0.004152	0.001189	0.011886
8-Aug-2028	15.624789	7.540070	11.329700	1.969670	26.938656	0.916362	0.011464	0.111482	0.033513	0.002033	0.001417	0.088570	0.000337	0.007933	0.004087	0.001173	0.011725
9-Aug-2028	16.075654	7.558700	11.366200	1.976110	27.011695	0.919456	0.011484	0.111668	0.033455	0.002038	0.001418	0.088390	0.000338	0.007931	0.004095	0.001175	0.011753
10-Aug-2028	16.202243	8.105060	12.364000	2.058190	28.713961	1.019680	0.012482	0.121656	0.034215	0.002204	0.001429	0.089319	0.000372	0.008342	0.004427	0.001258	0.012580
11-Aug-2028	16.353787	8.060240	12.285900	2.054720	28.587756	1.011190	0.012384	0.120643	0.034000	0.002189	0.001428	0.089100	0.000369	0.008287	0.004396	0.001251	0.012511
12-Aug-2028	16.584059	7.706970	11.638600	1.999180	27.476927	0.946497	0.011746	0.114277	0.033548	0.002081	0.001421	0.088746	0.000348	0.008033	0.004183	0.001198	0.011976
13-Aug-2028	16.909320	7.748020	11.718600	2.009020	27.619950	0.953799	0.011802	0.114811	0.033424	0.002091	0.001422	0.088586	0.000350	0.008040	0.004204	0.001204	0.012036
14-Aug-2028	16.335970	7.779470	11.774200	2.013690	27.717712	0.959414	0.011860	0.115378	0.033447	0.002101	0.001423	0.089247	0.000352	0.008065	0.004223	0.001208	0.012080
15-Aug-2028	16.095413	7.759880	11.738200	2.011350	27.659160	0.955648	0.011821	0.114988	0.033399	0.002095	0.001423	0.089509	0.000351	0.008049	0.004210	0.001205	0.012050
16-Aug-2028	15.853532	7.993690	12.172200	2.051210	28.407127	0.998343	0.012226	0.119014	0.033519	0.002162	0.001428	0.088824	0.000365	0.008194	0.004347	0.001240	0.012405
17-Aug-2028	15.855024	8.193230	12.536800	2.082250	29.033201	1.034790	0.012586	0.122608	0.033763	0.002223	0.001432	0.089168	0.000378	0.008340	0.004467	0.001271	0.012706
18-Aug-2028	15.557603	8.098710	12.362900	2.068170	28.739203	1.017300	0.012411	0.120851	0.033608	0.002196	0.001430	0.089345	0.000372	0.008270	0.004410	0.001256	0.012560
19-Aug-2028	14.801836	7.856240	11.916100	2.032050	27.985013	0.972414	0.011964	0.116370	0.033207	0.002127	0.001426	0.089795	0.000357	0.008089	0.004262	0.001219	0.012186
20-Aug-2028	14.639464	7.847640	11.903000	2.032420	27.965063	0.970724	0.011938	0.116103	0.033095	0.002122	0.001426	0.089485	0.000356	0.008070	0.004255	0.001217	0.012171
21-Aug-2028	13.755601	8.085690	12.339000	2.071160	28.719005	1.014030	0.012360	0.120305	0.033331	0.002196	0.001431	0.089895	0.000371	0.008236	0.004396	0.001253	0.012531
22-Aug-2028	12.658478	7.950050	12.090100	2.051330	28.298652	0.988897	0.012108	0.117773	0.033098	0.002156	0.001429	0.089550	0.000363	0.008132	0.004313	0.001232	0.012321
23-Aug-2028	11.324294	7.986260	12.156900	2.058040	28.416700	0.995363	0.012167	0.118364	0.033075	0.002166	0.001430	0.090460	0.000365	0.008152	0.004334	0.001238	0.012375
24-Aug-2028	10.880201	8.037490	12.250500	2.066590	28.579830	1.004620	0.012257	0.119251	0.033116	0.002182	0.001431	0.090221	0.000368	0.008187	0.004364	0.001245	0.012452
25-Aug-2028	10.797647	8.074850	12.323400	2.075840	28.711210	1.011200	0.012306	0.119720	0.032999	0.002191	0.001432	0.089625	0.000370	0.008193	0.004382	0.001251	0.012509
26-Aug-2028	10.455510	8.389700	12.893800	2.123260	29.692666	1.068600	0.012882	0.125478	0.033486	0.002291	0.001439	0.090161	0.000390	0.008437	0.004575	0.001298	0.012981
27-Aug-2028	10.053729	8.043130	12.262200	2.071020	28.612156	1.005080	0.012246	0.119111	0.032923	0.002185	0.001432	0.090372	0.000368	0.008172	0.004363	0.001245	0.012454
28-Aug-2028	9.623507	8.262530	12.664900	2.106670	29.306804	1.045030	0.012634	0.122975	0.033137	0.002251	0.001437	0.089921	0.000382	0.008323	0.004494	0.001278	0.012785
29-Aug-2028	9.825829	8.235720	12.616800	2.103830	29.228165	1.039950	0.012577	0.122402	0.033023	0.002242	0.001436	0.090429	0.000380	0.008296	0.004476	0.001274	0.012742
30-Aug-2028	10.133441	8.346160	12.815300	2.122760	29.581887	1.059560	0.012766	0.124272	0.033099	0.002281	0.001439	0.090373	0.000387	0.008373	0.004541	0.001290	0.012903
31-Aug-2028	9.950284	8.325560	12.779300	2.120150	29.519701	1.055800	0.012727	0.123875	0.033041	0.002273	0.001439	0.090121	0.000386	0.008353	0.004528	0.001287	0.012874

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
1-Sep-2028	9.053950	8.246420	12.637300	2.109290	29.277367	1.041260	0.012576	0.122362	0.032851	0.002246	0.001437	0.090380	0.000381	0.008285	0.004478	0.001275	0.012753
2-Sep-2028	8.216369	8.267920	12.677200	2.112470	29.344148	1.045320	0.012615	0.122755	0.032860	0.002253	0.001437	0.090757	0.000382	0.008299	0.004491	0.001279	0.012785
3-Sep-2028	7.487109	8.388180	12.901900	2.130840	29.720085	1.067990	0.012836	0.124969	0.032955	0.002288	0.001438	0.089991	0.000390	0.008379	0.004564	0.001297	0.012968
4-Sep-2028	7.586052	8.380610	12.888000	2.129450	29.695458	1.066680	0.012821	0.124815	0.032921	0.002288	0.001438	0.090818	0.000389	0.008373	0.004559	0.001295	0.012954
5-Sep-2028	7.495170	8.362070	12.855300	2.126750	29.638045	1.063450	0.012786	0.124468	0.032859	0.002283	0.001437	0.090272	0.000388	0.008356	0.004548	0.001292	0.012924
6-Sep-2028	7.558933	8.374430	12.881200	2.128090	29.674426	1.066220	0.012810	0.124715	0.032842	0.002286	0.001436	0.091067	0.000389	0.008361	0.004556	0.001294	0.012943
7-Sep-2028	6.733176	8.471650	13.058500	2.143590	29.981014	1.084020	0.012983	0.126436	0.032900	0.002334	0.001437	0.091492	0.000395	0.008430	0.004614	0.001309	0.013086
8-Sep-2028	5.940401	8.461010	13.043600	2.142270	29.949010	1.082550	0.012964	0.126255	0.032837	0.002315	0.001436	0.091219	0.000395	0.008412	0.004607	0.001307	0.013070
9-Sep-2028	5.671729	8.511000	13.133000	2.150270	30.106779	1.091600	0.013052	0.127133	0.032858	0.002337	0.001437	0.091407	0.000398	0.008451	0.004637	0.001314	0.013142
10-Sep-2028	5.795784	8.487140	13.090100	2.146260	30.030687	1.087330	0.013009	0.126699	0.032822	0.002337	0.001436	0.090667	0.000396	0.008432	0.004623	0.001311	0.013105
11-Sep-2028	5.686398	8.760590	13.596700	2.187640	30.883895	1.138350	0.013509	0.131724	0.033121	0.002408	0.001439	0.090744	0.000413	0.008624	0.004788	0.001352	0.013521
12-Sep-2028	4.967294	8.711360	13.507100	2.179890	30.729053	1.129450	0.013419	0.130812	0.033024	0.002394	0.001438	0.090819	0.000410	0.008586	0.004759	0.001344	0.013444
13-Sep-2028	4.861606	8.717040	13.520600	2.180550	30.745954	1.130940	0.013429	0.130915	0.032974	0.002396	0.001437	0.090690	0.000411	0.008585	0.004762	0.001345	0.013452
14-Sep-2028	5.062225	8.940040	13.928400	2.214810	31.443867	1.171980	0.013833	0.134958	0.033234	0.002468	0.001440	0.091339	0.000425	0.008748	0.004897	0.001379	0.013786
15-Sep-2028	5.219975	8.853270	13.772400	2.201360	31.171816	1.156430	0.013675	0.133382	0.033070	0.002442	0.001438	0.091017	0.000419	0.008679	0.004844	0.001365	0.013654
16-Sep-2028	4.760348	8.693750	13.483400	2.176730	30.672068	1.127510	0.013384	0.130463	0.032793	0.002393	0.001434	0.090901	0.000410	0.008555	0.004747	0.001341	0.013411
17-Sep-2028	4.012252	8.901410	13.865400	2.208440	31.321177	1.165970	0.013763	0.134262	0.033038	0.002457	0.001436	0.091187	0.000423	0.008704	0.004873	0.001372	0.013725
18-Sep-2028	3.578547	8.951890	13.961700	2.216180	31.479099	1.175670	0.013855	0.135194	0.033062	0.002470	0.001437	0.091006	0.000426	0.008734	0.004903	0.001380	0.013802
19-Sep-2028	3.594100	8.946170	13.954600	2.214920	31.459627	1.175110	0.013845	0.135098	0.033015	0.002468	0.001436	0.090922	0.000426	0.008725	0.004900	0.001379	0.013793
20-Sep-2028	4.128668	9.123490	14.277700	2.241880	32.013416	1.207540	0.014169	0.138328	0.033254	0.002522	0.001439	0.091416	0.000436	0.008859	0.005008	0.001406	0.014060
21-Sep-2028	4.293364	9.404590	14.790200	2.284690	32.891615	1.258960	0.014681	0.143457	0.033668	0.002608	0.001445	0.092237	0.000454	0.009071	0.005178	0.001449	0.014486
22-Sep-2028	4.404209	9.211600	14.441900	2.254980	32.287373	1.224210	0.014330	0.139941	0.033323	0.002550	0.001439	0.091597	0.000442	0.008918	0.005061	0.001419	0.014192
23-Sep-2028	4.410238	9.319000	14.639800	2.271070	32.621809	1.244200	0.014526	0.141903	0.033440	0.002583	0.001440	0.091879	0.000449	0.008996	0.005126	0.001435	0.014354
24-Sep-2028	4.308026	9.288490	14.589000	2.266250	32.525777	1.239270	0.014470	0.141351	0.033315	0.002574	0.001438	0.091661	0.000447	0.008963	0.005107	0.001431	0.014306
25-Sep-2028	4.299339	9.266800	14.550100	2.262790	32.457369	1.235410	0.014431	0.140955	0.033271	0.002567	0.001437	0.091582	0.000446	0.008946	0.005094	0.001427	0.014273
26-Sep-2028	4.313138	9.253750	14.532500	2.260730	32.416300	1.233790	0.014407	0.140730	0.033158	0.002562	0.001435	0.091341	0.000445	0.008924	0.005086	0.001425	0.014253
27-Sep-2028	4.230013	9.203350	14.436400	2.253260	32.259690	1.224060	0.014313	0.139764	0.033106	0.002549	0.001435	0.091363	0.000442	0.008893	0.005055	0.001417	0.014173
28-Sep-2028	4.008372	9.367960	14.740100	2.278010	32.772641	1.254640	0.014614	0.142782	0.033301	0.002598	0.001437	0.091710	0.000452	0.009011	0.005155	0.001442	0.014422
29-Sep-2028	3.756007	9.229920	14.491100	2.256750	32.340407	1.229900	0.014361	0.140254	0.033021	0.002559	0.001433	0.091547	0.000444	0.008901	0.005071	0.001421	0.014210
30-Sep-2028	3.373375	9.630820	15.228100	2.317370	33.591087	1.303940	0.015095	0.147613	0.033568	0.002677	0.001440	0.092222	0.000468	0.009194	0.005315	0.001482	0.014820
1-Oct-2028	3.067969	9.330760	14.679600	2.271730	32.653892	1.248980	0.014546	0.142107	0.033100	0.002589	0.001433	0.091588	0.000450	0.008969	0.005132	0.001436	0.014362
2-Oct-2028	2.970597	9.545410	15.075200	2.304180	33.323502	1.288720	0.014940	0.146072	0.033404	0.002651	0.001437	0.091890	0.000463	0.009125	0.005263	0.001469	0.014691
3-Oct-2028	2.637831	9.307270	14.636400	2.267830	32.579177	1.244590	0.014506	0.141722	0.033140	0.002580	0.001433	0.091445	0.000449	0.008955	0.005119	0.001433	0.014331
4-Oct-2028	2.512694	9.259490	14.550800	2.260140	32.428203	1.236200	0.014419	0.140840	0.033054	0.002567	0.001432	0.091342	0.000446	0.008916	0.005090	0.001426	0.014255
5-Oct-2028	2.415354	9.237090	14.509900	2.256510	32.357322	1.232130	0.014379	0.140445	0.033006	0.002559	0.001431	0.091271	0.000445	0.008900	0.005076	0.001422	0.014222
6-Oct-2028	2.246028	9.218960	14.476600	2.253610	32.300109	1.228810	0.014347	0.140127	0.032987	0.002553	0.001431	0.091255	0.000443	0.008888	0.005066	0.001420	0.014196
7-Oct-2028	2.264606	9.215640	14.470500	2.253090	32.289678	1.228190	0.014341	0.140069	0.032982	0.002552	0.001430	0.091549	0.000443	0.008886	0.005064	0.001419	0.014191
8-Oct-2028	2.165704	9.194550	14.432500	2.249510	32.222274	1.224530	0.014304	0.139697	0.032952	0.002547	0.001430	0.091173	0.000442	0.008870	0.005051	0.001416	0.014158
9-Oct-2028	2.105114	9.160640	14.370600	2.243980	32.114828	1.218440	0.014243	0.139095	0.032920	0.002538	0.001429	0.091052	0.000440	0.008845	0.005031	0.001411	0.014106
10-Oct-2028	2.010171	9.153600	14.358800	2.242480	32.091072	1.217300	0.014232	0.138988	0.032894	0.002535	0.001428	0.091141	0.000440	0.008840	0.005027	0.001410	0.014097
11-Oct-2028	1.733844	9.128620	14.313000	2.238570	32.012595	1.212740	0.014187	0.138545	0.032873	0.002527	0.001427	0.091202	0.000438	0.008823	0.005012	0.001406	0.014059
12-Oct-2028	1.306056	9.109000	14.277400	2.235330	31.950262	1.209190	0.014153	0.138201	0.032852	0.002521	0.001427	0.091063	0.000437	0.008808	0.005000	0.001403	0.014030
13-Oct-2028	1.025242	9.100520	14.262800	2.233760	31.922622	1.207830	0.014138	0.138060	0.032842	0.002518	0.001426	0.091096	0.000436	0.008802	0.004995	0.001402	0.014017
14-Oct-2028	0.958755	9.080440	14.225600	2.230590	31.859428	1.204120	0.014102	0.137698	0.032809	0.002513	0.001426	0.090857	0.000435	0.008787	0.004983	0.001399	0.013987
15-Oct-2028	0.875873	9.070840	14.208800	2.228790	31.828045	1.202520	0.014086	0.137537	0.032795	0.002510	0.001425	0.090908	0.000435	0.008780	0.004978	0.001397	0.013972
16-Oct-2028	0.876740	9.088410	14.235800	2.233260	31.890324	1.204750	0.014113	0.137799	0.032865	0.002515	0.001428	0.091218	0.000435	0.008798	0.004987	0.001400	0.013999
17-Oct-2028	0.873517	9.160930	14.347900	2.251610	32.146972	1.214060	0.014224	0.138884	0.033145	0.002534	0.001440	0.092120	0.000439	0.008869	0.005027	0.001411	0.014112
18-Oct-2028	0.871660	9.234680	14.461900	2.270220	32.407762	1.223550	0.014337	0.139988	0.033429	0.002554	0.001453	0.093055	0.000442	0.008942	0.005067	0.001423	0.014226
19-Oct-2028	0.869143	9.309610	14.579000	2.288710	32.671004	1.233430	0.014453	0.141122	0.033703	0.002575	0.001465	0.094001	0.000446	0.009015	0.005108	0.001434	0.014341
20-Oct-2028	0.869522	9.372040	14.676400	2.304170	32.890556	1.241650	0.014550	0.142065	0.033931	0.002592	0.001475	0.094880	0.000449	0.009076	0.005142	0.001444	0.014437
21-Oct-2028	0.868231	9.403670	14.726000	2.311950	33.001574	1.245840	0.014599	0.142545	0.034046	0.002601	0.001479	0.095705	0.000450	0.009107	0.005159	0.001449	0.014486
22-Oct-2028	0.866831	9.426880	14.762400	2.317640	33.082961	1.248920	0.014635	0.142897	0.034129	0.002608	0.001490	0.096527	0.000451	0.009129	0.005172	0.001452	0.014522
23-Oct-2028	0.865843	9.324600	14.598900	2.308310	32.789147	1.234740	0.014473	0.141313	0.033900	0.002597	0.001502	0.097320	0.000446	0.009037	0.005115	0.001436	0.014365

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
24-Oct-2028	0.863693	9.342530	14.627100	2.327830	32.914301	1.237150	0.014501	0.141586	0.034192	0.002619	0.001515	0.098140	0.000447	0.009114	0.005125	0.001439	0.014392
25-Oct-2028	0.864061	9.385820	14.668400	2.346620	33.099774	1.240660	0.014542	0.141985	0.034473	0.002640	0.001527	0.098924	0.000448	0.009188	0.005140	0.001443	0.014433
26-Oct-2028	0.864602	9.434300	14.696300	2.356620	33.262008	1.243010	0.014570	0.142255	0.034629	0.002651	0.001532	0.099158	0.000449	0.009231	0.005157	0.001450	0.014502
27-Oct-2028	0.864716	9.478080	14.730400	2.365330	33.407195	1.245150	0.014606	0.142504	0.034766	0.002660	0.001537	0.099327	0.000450	0.009268	0.005182	0.001457	0.014572
28-Oct-2028	0.864013	9.540570	14.829900	2.380140	33.624220	1.247480	0.014705	0.143426	0.034988	0.002677	0.001546	0.099878	0.000452	0.009327	0.005217	0.001467	0.014668
29-Oct-2028	0.863365	9.607400	14.934800	2.396500	33.858465	1.254520	0.014809	0.144442	0.035231	0.002695	0.001556	0.100534	0.000455	0.009392	0.005253	0.001477	0.014772
30-Oct-2028	0.862678	9.677160	15.044700	2.413470	34.102538	1.263860	0.014918	0.145506	0.035481	0.002714	0.001567	0.101205	0.000459	0.009459	0.005292	0.001488	0.014879
31-Oct-2028	0.861899	9.747400	15.156100	2.430290	34.347192	1.273400	0.015028	0.146586	0.035730	0.002733	0.001577	0.101848	0.000462	0.009526	0.005330	0.001499	0.014988
1-Nov-2028	0.861257	9.813340	15.262900	2.445420	34.574150	1.282710	0.015134	0.147623	0.035955	0.002750	0.001586	0.102365	0.000465	0.009587	0.005367	0.001509	0.015090
2-Nov-2028	0.860832	9.871340	15.359400	2.457910	34.770409	1.291340	0.015229	0.148564	0.036143	0.002764	0.001593	0.102713	0.000468	0.009639	0.005400	0.001518	0.015181
3-Nov-2028	0.860711	9.940000	15.472000	2.473190	35.004776	1.301280	0.015341	0.149661	0.036372	0.002781	0.001602	0.103191	0.000472	0.009701	0.005438	0.001529	0.015288
4-Nov-2028	0.859273	10.019700	15.599900	2.491840	35.280588	1.312350	0.015468	0.150902	0.036648	0.002802	0.001613	0.103865	0.000476	0.009776	0.005483	0.001541	0.015412
5-Nov-2028	0.857888	10.101200	15.729100	2.511350	35.564436	1.323410	0.015596	0.152154	0.036937	0.002824	0.001625	0.104613	0.000480	0.009853	0.005528	0.001554	0.015538
6-Nov-2028	0.857721	10.174300	15.844700	2.529010	35.819690	1.333280	0.015710	0.153274	0.037196	0.002844	0.001636	0.105306	0.000483	0.009923	0.005568	0.001565	0.015651
7-Nov-2028	0.857183	10.203200	15.899600	2.533060	35.908531	1.338720	0.015764	0.153816	0.037259	0.002849	0.001637	0.105203	0.000485	0.009943	0.005585	0.001570	0.015698
8-Nov-2028	0.856142	10.270200	16.001500	2.550480	36.147566	1.347100	0.015865	0.154799	0.037513	0.002869	0.001649	0.105996	0.000488	0.010011	0.005622	0.001580	0.015800
9-Nov-2028	0.856049	10.353000	16.126400	2.572320	36.444255	1.357280	0.015989	0.156002	0.037832	0.002893	0.001664	0.107018	0.000492	0.010095	0.005666	0.001593	0.015926
10-Nov-2028	0.856986	10.416600	16.221000	2.589530	36.673935	1.364870	0.016083	0.156915	0.038087	0.002912	0.001676	0.107855	0.000495	0.010161	0.005700	0.001602	0.016023
11-Nov-2028	0.856596	10.467500	16.297700	2.602920	36.856172	1.371110	0.016160	0.157656	0.038286	0.002927	0.001685	0.108478	0.000497	0.010212	0.005728	0.001610	0.016101
12-Nov-2028	0.854540	10.523400	16.383400	2.617250	37.054765	1.378210	0.016245	0.158485	0.038499	0.002943	0.001695	0.109110	0.000500	0.010268	0.005758	0.001619	0.016187
13-Nov-2028	0.852203	10.579900	16.470500	2.631540	37.254692	1.385470	0.016331	0.159328	0.038711	0.002959	0.001704	0.109726	0.000502	0.010324	0.005789	0.001627	0.016274
14-Nov-2028	0.851467	10.640900	16.565600	2.646690	37.469397	1.393470	0.016426	0.160249	0.038935	0.002976	0.001714	0.110354	0.000505	0.010384	0.005822	0.001637	0.016368
15-Nov-2028	0.851484	10.709100	16.672200	2.663520	37.708998	1.402480	0.016531	0.161280	0.039183	0.002995	0.001725	0.111042	0.000508	0.010450	0.005860	0.001647	0.016473
16-Nov-2028	0.850840	10.781600	16.785800	2.681350	37.963455	1.412080	0.016644	0.162379	0.039446	0.003015	0.001736	0.111767	0.000512	0.010520	0.005900	0.001658	0.016584
17-Nov-2028	0.850910	10.852500	16.897300	2.698600	38.211527	1.421560	0.016755	0.163459	0.039700	0.003035	0.001747	0.112452	0.000515	0.010588	0.005938	0.001669	0.016694
18-Nov-2028	0.851556	10.828700	16.860300	2.692670	38.127679	1.418440	0.016718	0.163102	0.039614	0.003028	0.001743	0.112202	0.000514	0.010565	0.005925	0.001666	0.016657
19-Nov-2028	0.851969	10.888400	16.956000	2.706640	38.334278	1.426720	0.016813	0.164030	0.039821	0.003044	0.001752	0.112708	0.000517	0.010621	0.005959	0.001675	0.016750
20-Nov-2028	0.852507	10.946900	17.050200	2.720210	38.536234	1.434910	0.016906	0.164945	0.040022	0.003059	0.001760	0.113186	0.000520	0.010676	0.005991	0.001684	0.016840
21-Nov-2028	0.852828	11.005600	17.144700	2.733900	38.739183	1.443100	0.017000	0.165862	0.040224	0.003074	0.001768	0.113675	0.000523	0.010730	0.006024	0.001693	0.016932
22-Nov-2028	0.851176	11.068000	17.244100	2.748660	38.955778	1.451660	0.017098	0.166826	0.040442	0.003091	0.001777	0.114225	0.000526	0.010789	0.006058	0.001703	0.017028
23-Nov-2028	0.850031	11.126800	17.338000	2.762580	39.159924	1.459750	0.017191	0.167737	0.040648	0.003107	0.001786	0.114741	0.000529	0.010845	0.006091	0.001712	0.017119
24-Nov-2028	0.850189	11.142900	17.364100	2.766270	39.215321	1.462020	0.017217	0.167989	0.040703	0.003111	0.001788	0.114867	0.000530	0.010860	0.006100	0.001714	0.017144
25-Nov-2028	0.850910	11.197200	17.450400	2.779200	39.404154	1.469430	0.017302	0.168827	0.040894	0.003125	0.001796	0.115356	0.000532	0.010911	0.006130	0.001723	0.017228
26-Nov-2028	0.850213	11.263400	17.554300	2.795470	39.636455	1.478220	0.017405	0.169832	0.041134	0.003144	0.001806	0.116015	0.000536	0.010975	0.006166	0.001733	0.017330
27-Nov-2028	0.849328	11.330300	17.659800	2.811650	39.870134	1.487210	0.017510	0.170854	0.041373	0.003162	0.001817	0.116650	0.000539	0.011040	0.006203	0.001743	0.017433
28-Nov-2028	0.849536	11.390200	17.754600	2.826060	40.079044	1.495320	0.017604	0.171773	0.041585	0.003178	0.001826	0.117211	0.000542	0.011097	0.006236	0.001753	0.017526
29-Nov-2028	0.850094	11.139500	17.365100	2.763430	39.195136	1.462620	0.017218	0.168007	0.040667	0.003107	0.001785	0.114569	0.000530	0.010851	0.006099	0.001714	0.017141
30-Nov-2028	0.848797	11.200900	17.460800	2.778750	39.411540	1.470790	0.017313	0.168935	0.040892	0.003125	0.001795	0.115213	0.000533	0.010912	0.006132	0.001724	0.017235
1-Dec-2028	0.847834	11.261400	17.555000	2.793730	39.624296	1.478600	0.017406	0.169844	0.041113	0.003141	0.001804	0.115830	0.000536	0.010970	0.006166	0.001733	0.017328
2-Dec-2028	0.848297	11.323500	17.652500	2.808910	39.841871	1.486870	0.017503	0.170789	0.041336	0.003159	0.001814	0.116438	0.000539	0.011030	0.006200	0.001742	0.017424
3-Dec-2028	0.848095	11.396300	17.766700	2.826770	40.097200	1.496540	0.017616	0.171894	0.041600	0.003179	0.001826	0.117161	0.000542	0.011101	0.006240	0.001754	0.017536
4-Dec-2028	0.847398	11.182000	17.436700	2.772320	39.337868	1.469080	0.017289	0.168706	0.040802	0.003117	0.001790	0.114788	0.000532	0.010889	0.006123	0.001721	0.017208
5-Dec-2028	0.847249	11.244300	17.535300	2.787330	39.555242	1.477500	0.017386	0.169662	0.041023	0.003134	0.001799	0.115371	0.000535	0.010948	0.006157	0.001730	0.017304
6-Dec-2028	0.847647	11.313500	17.643700	2.804340	39.798082	1.486680	0.017494	0.170712	0.041274	0.003153	0.001810	0.116062	0.000539	0.011015	0.006195	0.001741	0.017410
7-Dec-2028	0.847569	11.391000	17.764500	2.823570	40.070788	1.496850	0.017614	0.171880	0.041557	0.003175	0.001822	0.116860	0.000542	0.011091	0.006238	0.001753	0.017530
8-Dec-2028	0.846780	11.456900	17.867800	2.839710	40.301805	1.505600	0.017716	0.172880	0.041795	0.003193	0.001833	0.117512	0.000545	0.011154	0.006274	0.001763	0.017631
9-Dec-2028	0.847322	11.516500	17.961800	2.854150	40.510090	1.513610	0.017809	0.173791	0.042008	0.003209	0.001842	0.118081	0.000548	0.011212	0.006307	0.001772	0.017723
10-Dec-2028	0.847715	11.584800	18.069100	2.870880	40.749529	1.522700	0.017916	0.174829	0.042254	0.003228	0.001852	0.118755	0.000552	0.011278	0.006344	0.001783	0.017828
11-Dec-2028	0.847037	11.634000	18.147300	2.882570	40.920521	1.529420	0.017993	0.175588	0.042427	0.003241	0.001860	0.119195	0.000554	0.011324	0.006371	0.001790	0.017905
12-Dec-2028	0.846820	11.668100	18.203000	2.890310	41.037542	1.534310	0.018048	0.176129	0.042542	0.003250	0.001864	0.119451	0.000556	0.011356	0.006391	0.001796	0.017958
13-Dec-2028	0.847240	11.711600	18.273300	2.900260	41.187136	1.540450	0.018118	0.176813	0.042690	0.003261	0.001870	0.119791	0.000558	0.011396	0.006415	0.001803	0.018025
14-Dec-2028	0.846862	11.756800	18.347000	2.910500	41.342169	1.546910	0.018191	0.177529	0.042842	0.003273	0.001876	0.120131	0.000560	0.011437	0.006440	0.001810	0.018096
15-Dec-2028	0.846082	11.788200	18.398900	2.917330	41.448700	1.551540	0.018242	0.178034	0.042943	0.003281	0.001880	0.120331	0.000562	0.011465	0.006458	0.001814	0.018145

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
16-Dec-2028	0.846223	11.829900	18.465900	2.927060	41.592893	1.557340	0.018309	0.178685	0.043087	0.003292	0.001886	0.120680	0.000564	0.011504	0.006481	0.001821	0.018209
17-Dec-2028	0.845628	11.876200	18.539900	2.938000	41.753555	1.563720	0.018382	0.179402	0.043249	0.003304	0.001892	0.121086	0.000566	0.011548	0.006507	0.001828	0.018281
18-Dec-2028	0.845652	11.905600	18.589200	2.944240	41.852664	1.568150	0.018431	0.179883	0.043342	0.003311	0.001896	0.121252	0.000568	0.011574	0.006523	0.001833	0.018327
19-Dec-2028	0.846402	11.938100	18.644700	2.950770	41.960707	1.573230	0.018486	0.180425	0.043440	0.003318	0.001899	0.121390	0.000569	0.011602	0.006542	0.001838	0.018378
20-Dec-2028	0.845984	11.984600	18.721700	2.960860	42.118368	1.580090	0.018562	0.181175	0.043591	0.003330	0.001904	0.121684	0.000572	0.011643	0.006568	0.001845	0.018451
21-Dec-2028	0.845647	12.024600	18.787600	2.969710	42.254692	1.585930	0.018627	0.181817	0.043723	0.003340	0.001909	0.121955	0.000574	0.011679	0.006591	0.001851	0.018513
22-Dec-2028	0.846070	12.034700	18.805800	2.971450	42.287077	1.587650	0.018645	0.181994	0.043749	0.003342	0.001910	0.121962	0.000574	0.011687	0.006596	0.001853	0.018530
23-Dec-2028	0.845749	12.070000	18.862500	2.979670	42.409071	1.592580	0.018701	0.182545	0.043871	0.003351	0.001915	0.122255	0.000576	0.011720	0.006616	0.001858	0.018584
24-Dec-2028	0.845451	12.098900	18.909400	2.986270	42.508413	1.596670	0.018748	0.183001	0.043969	0.003359	0.001919	0.122480	0.000578	0.011747	0.006632	0.001863	0.018629
25-Dec-2028	0.845920	12.110700	18.929800	2.988560	42.547308	1.598560	0.018768	0.183201	0.044003	0.003361	0.001920	0.122519	0.000578	0.011757	0.006639	0.001865	0.018648
26-Dec-2028	0.845712	12.139200	18.975900	2.995070	42.645281	1.602580	0.018813	0.183648	0.044100	0.003369	0.001924	0.122742	0.000580	0.011783	0.006655	0.001869	0.018692
27-Dec-2028	0.845373	12.146000	18.989400	2.995930	42.665802	1.603950	0.018827	0.183782	0.044114	0.003370	0.001924	0.122703	0.000580	0.011788	0.006659	0.001870	0.018703
28-Dec-2028	0.845772	12.165400	19.021000	3.000280	42.732157	1.606730	0.018858	0.184090	0.044178	0.003374	0.001926	0.122844	0.000581	0.011805	0.006670	0.001873	0.018734
29-Dec-2028	0.845727	12.204700	19.083200	3.009760	42.869328	1.612040	0.018920	0.184692	0.044318	0.003385	0.001932	0.123213	0.000583	0.011843	0.006692	0.001879	0.018794
30-Dec-2028	0.845312	12.245900	19.148000	3.019720	43.013219	1.617570	0.018984	0.185320	0.044465	0.003396	0.001939	0.123606	0.000585	0.011882	0.006714	0.001886	0.018858
31-Dec-2028	0.845546	12.284100	19.208700	3.028920	43.146490	1.622750	0.019044	0.185908	0.044601	0.003407	0.001944	0.123961	0.000587	0.011919	0.006735	0.001892	0.018917
1-Jan-2029	0.845624	12.325000	19.273500	3.038720	43.288974	1.628300	0.019108	0.186536	0.044745	0.003418	0.001950	0.124337	0.000589	0.011958	0.006758	0.001898	0.018980
2-Jan-2029	0.845323	12.365800	19.338000	3.048560	43.431373	1.633810	0.019172	0.187161	0.044890	0.003429	0.001957	0.124721	0.000591	0.011997	0.006780	0.001904	0.019043
3-Jan-2029	0.845447	12.389300	19.375300	3.054180	43.513195	1.637000	0.019209	0.187522	0.044973	0.003435	0.001960	0.124936	0.000592	0.012019	0.006793	0.001908	0.019079
4-Jan-2029	0.845572	12.414600	19.415000	3.060380	43.601901	1.640370	0.019248	0.187907	0.045065	0.003442	0.001964	0.125187	0.000593	0.012044	0.006807	0.001912	0.019118
5-Jan-2029	0.845233	12.459300	19.483900	3.071680	43.760050	1.646120	0.019317	0.188573	0.045231	0.003455	0.001971	0.125674	0.000595	0.012088	0.006832	0.001919	0.019187
6-Jan-2029	0.845106	12.506800	19.556800	3.083800	43.928568	1.652170	0.019389	0.189277	0.045409	0.003468	0.001979	0.126206	0.000598	0.012135	0.006857	0.001926	0.019260
7-Jan-2029	0.845156	12.554400	19.630500	3.095830	44.096965	1.658320	0.019462	0.189989	0.045585	0.003482	0.001987	0.126723	0.000600	0.012182	0.006883	0.001933	0.019333
8-Jan-2029	0.844842	12.608900	19.715100	3.109460	44.289180	1.665420	0.019546	0.190808	0.045786	0.003497	0.001996	0.127298	0.000602	0.012235	0.006913	0.001942	0.019417
9-Jan-2029	0.844715	12.659800	19.794000	3.122160	44.468575	1.672040	0.019624	0.191571	0.045972	0.003512	0.002004	0.127832	0.000605	0.012285	0.006941	0.001949	0.019495
10-Jan-2029	0.844913	12.697300	19.852200	3.131580	44.601005	1.676910	0.019682	0.192133	0.046111	0.003522	0.002011	0.128232	0.000607	0.012322	0.006961	0.001955	0.019552
11-Jan-2029	0.844716	12.752500	19.938100	3.145340	44.795503	1.684130	0.019767	0.192964	0.046313	0.003538	0.002020	0.128807	0.000609	0.012376	0.006992	0.001964	0.019637
12-Jan-2029	0.844517	12.810700	20.028700	3.159760	45.000210	1.691760	0.019857	0.193841	0.046526	0.003554	0.002029	0.129406	0.000612	0.012432	0.007023	0.001973	0.019727
13-Jan-2029	0.844692	12.866400	20.115700	3.173550	45.196080	1.699100	0.019943	0.194683	0.046728	0.003569	0.002038	0.129974	0.000615	0.012487	0.007054	0.001981	0.019813
14-Jan-2029	0.844651	12.926900	20.210100	3.188540	45.408877	1.707050	0.020037	0.195595	0.046949	0.003586	0.002047	0.130594	0.000618	0.012545	0.007087	0.001991	0.019906
15-Jan-2029	0.844399	12.993900	20.314300	3.205250	45.644988	1.715810	0.020140	0.196604	0.047195	0.003605	0.002058	0.131294	0.000621	0.012611	0.007124	0.002001	0.020009
16-Jan-2029	0.844510	13.059500	20.416300	3.221590	45.876079	1.724380	0.020241	0.197591	0.047435	0.003623	0.002069	0.131977	0.000624	0.012675	0.007160	0.002011	0.020110
17-Jan-2029	0.844641	13.118600	20.508600	3.236200	46.083816	1.732160	0.020333	0.198483	0.047650	0.003640	0.002078	0.132579	0.000627	0.012732	0.007192	0.002020	0.020201
18-Jan-2029	0.844526	13.180000	20.604800	3.251310	46.299355	1.740300	0.020428	0.199414	0.047873	0.003657	0.002088	0.133194	0.000630	0.012792	0.007226	0.002030	0.020295
19-Jan-2029	0.844258	13.242200	20.702300	3.266570	46.517509	1.748560	0.020525	0.200358	0.048098	0.003674	0.002098	0.133812	0.000633	0.012852	0.007260	0.002039	0.020391
20-Jan-2029	0.844368	13.300800	20.794300	3.280880	46.722761	1.756360	0.020616	0.201249	0.048308	0.003690	0.002107	0.134386	0.000635	0.012909	0.007292	0.002048	0.020481
21-Jan-2029	0.844461	13.352300	20.875400	3.293390	46.902873	1.763270	0.020697	0.202035	0.048493	0.003704	0.002115	0.134881	0.000638	0.012958	0.007320	0.002056	0.020561
22-Jan-2029	0.844423	13.402100	20.954100	3.305430	47.076804	1.769990	0.020775	0.202798	0.048671	0.003718	0.002122	0.135353	0.000640	0.013006	0.007348	0.002064	0.020638
23-Jan-2029	0.844305	13.458300	21.042600	3.319080	47.273347	1.777520	0.020862	0.203655	0.048872	0.003733	0.002131	0.135893	0.000643	0.013060	0.007379	0.002072	0.020724
24-Jan-2029	0.844420	13.520100	21.139800	3.334130	47.489637	1.785770	0.020959	0.204596	0.049094	0.003750	0.002140	0.136494	0.000646	0.013119	0.007413	0.002082	0.020820
25-Jan-2029	0.844440	13.585100	21.242000	3.349990	47.717254	1.794450	0.021060	0.205586	0.049327	0.003768	0.002151	0.137127	0.000649	0.013182	0.007448	0.002092	0.020920
26-Jan-2029	0.844450	13.652800	21.348400	3.366520	47.954371	1.803490	0.021165	0.206617	0.049571	0.003786	0.002161	0.137789	0.000652	0.013247	0.007486	0.002102	0.021024
27-Jan-2029	0.844468	13.723700	21.459800	3.383830	48.202691	1.812940	0.021276	0.207695	0.049826	0.003806	0.002172	0.138483	0.000656	0.013316	0.007525	0.002113	0.021134
28-Jan-2029	0.844494	13.797500	21.575800	3.401880	48.461299	1.822780	0.021391	0.208818	0.050092	0.003826	0.002184	0.139208	0.000659	0.013387	0.007565	0.002125	0.021248
29-Jan-2029	0.844534	13.873900	21.695700	3.420550	48.728953	1.832950	0.021510	0.209979	0.050367	0.003847	0.002195	0.139959	0.000663	0.013461	0.007607	0.002137	0.021365
30-Jan-2029	0.844523	13.953000	21.819900	3.439890	49.006108	1.843480	0.021633	0.211181	0.050652	0.003869	0.002208	0.140736	0.000667	0.013537	0.007651	0.002149	0.021487
31-Jan-2029	0.844511	14.033900	21.946900	3.459680	49.289611	1.854250	0.021759	0.212411	0.050944	0.003891	0.002220	0.141532	0.000671	0.013615	0.007695	0.002161	0.021612
1-Feb-2029	0.844512	14.116800	22.077100	3.479990	49.580248	1.865290	0.021888	0.213672	0.051243	0.003914	0.002233	0.142350	0.000675	0.013695	0.007741	0.002174	0.021740
2-Feb-2029	0.844481	14.201900	22.210600	3.500810	49.878480	1.876610	0.022020	0.214964	0.051550	0.003938	0.002246	0.143189	0.000679	0.013777	0.007787	0.002187	0.021871
3-Feb-2029	0.844446	14.288700	22.346800	3.522060	50.182727	1.888160	0.022155	0.216283	0.051863	0.003961	0.002260	0.144045	0.000683	0.013861	0.007835	0.002200	0.022005
4-Feb-2029	0.844427	14.377300	22.485900	3.543770	50.493363	1.899950	0.022293	0.217630	0.052183	0.003986	0.002274	0.144921	0.000687	0.013947	0.007884	0.002214	0.022141
5-Feb-2029	0.844413	14.467800	22.627900	3.565940	50.810638	1.911980	0.022434	0.219005	0.052510	0.004011	0.002288	0.145816	0.000691	0.014034	0.007933	0.002228	0.022281
6-Feb-2029	0.844398	14.559900	22.772200	3.588490	51.133472	1.924210	0.022577	0.220402	0.052842	0.004036	0.002302	0.146734	0.000696	0.014123	0.007984	0.002242	0.022423

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
7-Feb-2029	0.844390	14.657800	22.925400	3.612640	51.477378	1.937150	0.022729	0.221885	0.053198	0.004063	0.002318	0.147715	0.000701	0.014218	0.008038	0.002257	0.022573
8-Feb-2029	0.844389	14.754200	23.076800	3.636140	51.814862	1.950010	0.022879	0.223351	0.053544	0.004090	0.002333	0.148657	0.000705	0.014311	0.008091	0.002272	0.022722
9-Feb-2029	0.844387	14.851400	23.229200	3.660010	52.155867	1.962910	0.023030	0.224826	0.053896	0.004117	0.002348	0.149622	0.000710	0.014405	0.008144	0.002287	0.022872
10-Feb-2029	0.844386	14.948200	23.380900	3.683770	52.495420	1.975750	0.023180	0.226294	0.054246	0.004143	0.002363	0.150585	0.000715	0.014499	0.008197	0.002302	0.023021
11-Feb-2029	0.844388	15.047200	23.536000	3.708090	52.842773	1.988880	0.023334	0.227796	0.054604	0.004171	0.002379	0.151572	0.000719	0.014594	0.008251	0.002317	0.023173
12-Feb-2029	0.844382	15.157300	23.708600	3.735150	53.229126	2.003490	0.023505	0.229467	0.055002	0.004201	0.002396	0.152670	0.000725	0.014701	0.008312	0.002334	0.023343
13-Feb-2029	0.844380	15.266000	23.878900	3.761840	53.610459	2.017900	0.023674	0.231115	0.055395	0.004231	0.002413	0.153754	0.000730	0.014806	0.008371	0.002351	0.023511
14-Feb-2029	0.844375	15.393400	24.078600	3.793090	54.057264	2.034820	0.023872	0.233049	0.055856	0.004266	0.002433	0.155018	0.000736	0.014929	0.008441	0.002371	0.023707
15-Feb-2029	0.844371	15.529600	24.292000	3.826520	54.535021	2.052880	0.024083	0.235114	0.056348	0.004304	0.002454	0.156375	0.000742	0.015061	0.008516	0.002392	0.023917
16-Feb-2029	0.844370	15.674700	24.519300	3.862200	55.044266	2.072110	0.024309	0.237315	0.056874	0.004344	0.002477	0.157825	0.000749	0.015202	0.008596	0.002414	0.024140
17-Feb-2029	0.844369	15.816200	24.740800	3.896990	55.540856	2.090850	0.024528	0.239459	0.057386	0.004383	0.002500	0.159240	0.000756	0.015339	0.008673	0.002436	0.024358
18-Feb-2029	0.844370	15.952300	24.954000	3.930480	56.018610	2.108880	0.024740	0.241523	0.057879	0.004421	0.002521	0.160603	0.000763	0.015471	0.008748	0.002457	0.024568
19-Feb-2029	0.844368	16.096400	25.179500	3.965920	56.524369	2.127950	0.024963	0.243705	0.058401	0.004461	0.002544	0.162047	0.000770	0.015610	0.008827	0.002479	0.024790
20-Feb-2029	0.844364	16.249700	25.419500	4.003630	57.062449	2.148250	0.025201	0.246028	0.058957	0.004503	0.002568	0.163583	0.000777	0.015759	0.008911	0.002503	0.025026
21-Feb-2029	0.844366	16.416400	25.680700	4.044600	57.647414	2.170360	0.025460	0.248557	0.059560	0.004549	0.002594	0.165246	0.000785	0.015920	0.009003	0.002528	0.025283
22-Feb-2029	0.844329	16.586000	25.946300	4.086300	58.242625	2.192820	0.025723	0.251128	0.060174	0.004596	0.002621	0.166943	0.000793	0.016084	0.009096	0.002554	0.025544
23-Feb-2029	0.844331	16.760100	26.218700	4.129120	58.853686	2.215860	0.025994	0.253764	0.060805	0.004644	0.002648	0.168688	0.000801	0.016253	0.009191	0.002581	0.025812
24-Feb-2029	0.844332	16.931100	26.486400	4.171230	59.454082	2.238490	0.026259	0.256355	0.061425	0.004692	0.002675	0.170405	0.000809	0.016419	0.009285	0.002608	0.026076
25-Feb-2029	0.844334	17.103700	26.756600	4.213710	60.059997	2.261340	0.026527	0.258971	0.062051	0.004740	0.002702	0.172137	0.000818	0.016586	0.009380	0.002634	0.026342
26-Feb-2029	0.844334	17.286000	27.041700	4.258570	60.699933	2.285450	0.026810	0.261731	0.062711	0.004790	0.002731	0.173966	0.000826	0.016763	0.009480	0.002662	0.026622
27-Feb-2029	0.844340	17.473000	27.334500	4.304600	61.356424	2.310200	0.027100	0.264564	0.063389	0.004842	0.002761	0.175843	0.000835	0.016944	0.009582	0.002691	0.026910
28-Feb-2029	0.844350	17.667200	27.638400	4.352400	62.038182	2.335910	0.027401	0.267507	0.064093	0.004896	0.002791	0.177791	0.000845	0.017132	0.009689	0.002721	0.027209
1-Mar-2029	0.844359	17.883500	27.977000	4.405650	62.797566	2.364530	0.027737	0.270784	0.064878	0.004955	0.002825	0.179962	0.000855	0.017342	0.009807	0.002754	0.027543
2-Mar-2029	0.844366	18.130700	28.363700	4.466500	63.665405	2.397220	0.028120	0.274527	0.065774	0.005024	0.002864	0.182446	0.000867	0.017581	0.009943	0.002792	0.027923
3-Mar-2029	0.844371	18.396100	28.779000	4.531860	64.597261	2.432320	0.028532	0.278546	0.066736	0.005097	0.002906	0.185114	0.000880	0.017839	0.010089	0.002833	0.028332
4-Mar-2029	0.844374	18.666100	29.201500	4.598370	65.545339	2.468030	0.028951	0.282635	0.067716	0.005172	0.002949	0.187830	0.000892	0.018100	0.010237	0.002875	0.028748
5-Mar-2029	0.844378	18.936900	29.625100	4.665070	66.496198	2.503840	0.029371	0.286736	0.068698	0.005247	0.002992	0.190553	0.000905	0.018363	0.010385	0.002917	0.029165
6-Mar-2029	0.844381	19.218700	30.066000	4.734480	67.485683	2.541110	0.029808	0.291003	0.069720	0.005325	0.003036	0.193387	0.000919	0.018636	0.010540	0.002960	0.029599
7-Mar-2029	0.844384	19.515100	30.529700	4.807480	68.526407	2.580300	0.030268	0.295491	0.070795	0.005407	0.003083	0.196369	0.000933	0.018924	0.010702	0.003006	0.030055
8-Mar-2029	0.844435	17.638500	27.591700	4.345920	61.939833	2.331800	0.027355	0.267053	0.063997	0.004888	0.002787	0.177577	0.000843	0.017106	0.009673	0.002716	0.027165
9-Mar-2029	0.844437	17.744000	27.756800	4.371870	62.310129	2.345760	0.027519	0.268650	0.064379	0.004917	0.002804	0.178635	0.000848	0.017208	0.009731	0.002733	0.027327
10-Mar-2029	0.844439	17.848700	27.920700	4.397640	62.677685	2.359620	0.027681	0.270237	0.064759	0.004946	0.002821	0.179685	0.000853	0.017309	0.009788	0.002749	0.027489
11-Mar-2029	0.844441	17.952600	28.083200	4.423190	63.042339	2.373370	0.027842	0.271810	0.065135	0.004975	0.002837	0.180726	0.000858	0.017410	0.009845	0.002765	0.027649
12-Mar-2029	0.844442	18.054600	28.243000	4.448310	63.400477	2.386880	0.028001	0.273357	0.065505	0.005003	0.002853	0.181750	0.000863	0.017509	0.009901	0.002781	0.027806
13-Mar-2029	0.844443	18.157900	28.404600	4.473720	63.763055	2.400540	0.028161	0.274920	0.065879	0.005032	0.002869	0.182786	0.000868	0.017609	0.009958	0.002796	0.027965
14-Mar-2029	0.844444	18.267900	28.576800	4.500810	64.149282	2.415100	0.028331	0.276587	0.066278	0.005062	0.002887	0.183891	0.000873	0.017716	0.010018	0.002813	0.028134
15-Mar-2029	0.844445	18.385000	28.760100	4.529640	64.560403	2.430590	0.028513	0.278361	0.066703	0.005095	0.002905	0.185067	0.000879	0.017829	0.010082	0.002831	0.028315
16-Mar-2029	0.844446	18.504700	28.947400	4.559110	64.980651	2.446430	0.028699	0.280174	0.067137	0.005128	0.002924	0.186269	0.000885	0.017945	0.010148	0.002850	0.028499
17-Mar-2029	0.844447	18.639800	29.158800	4.592380	65.455001	2.464300	0.028908	0.282221	0.067627	0.005165	0.002945	0.187627	0.000891	0.018076	0.010222	0.002871	0.028707
18-Mar-2029	0.844447	18.789800	29.393500	4.629310	65.981629	2.484140	0.029141	0.284492	0.068171	0.005207	0.002969	0.189134	0.000898	0.018222	0.010304	0.002894	0.028938
19-Mar-2029	0.844448	18.943900	29.634600	4.667270	66.522736	2.504530	0.029380	0.286826	0.068730	0.005250	0.002993	0.190683	0.000906	0.018371	0.010389	0.002918	0.029175
20-Mar-2029	0.844449	19.108100	29.891500	4.707700	67.099234	2.526240	0.029635	0.289312	0.069325	0.005295	0.003019	0.192334	0.000914	0.018530	0.010479	0.002943	0.029428
21-Mar-2029	0.844449	19.280600	30.161400	4.750190	67.704941	2.549060	0.029902	0.291925	0.069951	0.005343	0.003047	0.194069	0.000922	0.018697	0.010573	0.002969	0.029694
22-Mar-2029	0.844449	19.463400	30.447400	4.795210	68.346785	2.573220	0.030186	0.294693	0.070614	0.005394	0.003075	0.195907	0.000931	0.018875	0.010674	0.002998	0.029976
23-Mar-2029	0.844450	19.656800	30.749900	4.842840	69.025845	2.598800	0.030486	0.297621	0.071315	0.005447	0.003106	0.197852	0.000940	0.019062	0.010780	0.003027	0.030273
24-Mar-2029	0.844450	19.859800	31.067500	4.892840	69.738636	2.625640	0.030801	0.300695	0.072052	0.005503	0.003138	0.199894	0.000949	0.019259	0.010891	0.003059	0.030586
25-Mar-2029	0.844450	20.075300	31.404800	4.945940	70.495405	2.654140	0.031135	0.303959	0.072833	0.005563	0.003172	0.202063	0.000960	0.019468	0.011009	0.003092	0.030918
26-Mar-2029	0.844451	20.300700	31.757400	5.001470	71.286901	2.683950	0.031485	0.307372	0.073651	0.005626	0.003208	0.204330	0.000971	0.019687	0.011133	0.003127	0.031265
27-Mar-2029	0.844451	20.535800	32.125100	5.059380	72.112419	2.715030	0.031849	0.310932	0.074504	0.005691	0.003245	0.206696	0.000982	0.019915	0.011262	0.003163	0.031627
28-Mar-2029	0.844451	20.780200	32.507500	5.119590	72.970631	2.747350	0.032228	0.314633	0.075391	0.005758	0.003283	0.209155	0.000994	0.020152	0.011396	0.003200	0.032004
29-Mar-2029	0.844451	21.034000	32.904500	5.182100	73.861786	2.780900	0.032622	0.318475	0.076311	0.005829	0.003324	0.211709	0.001006	0.020398	0.011535	0.003239	0.032394
30-Mar-2029	0.844451	21.296900	33.315800	5.246870	74.784970	2.815660	0.033030	0.322455	0.077265	0.005902	0.003365	0.214354	0.001018	0.020653	0.011679	0.003280	0.032799
31-Mar-2029	0.844451	21.569200	33.741700	5.313950	75.741139	2.851660	0.033452	0.326578	0.078253	0.005977	0.003408	0.217094	0.001031	0.020917	0.011829	0.003322	0.033219

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
1-Apr-2029	0.844451	21.850800	34.182300	5.383320	76.729959	2.888900	0.033889	0.330842	0.079274	0.006055	0.003453	0.219928	0.001045	0.021190	0.011983	0.003365	0.033652
2-Apr-2029	0.844451	22.131800	34.621900	5.452560	77.716747	2.926050	0.034325	0.335097	0.080294	0.006133	0.003497	0.222756	0.001058	0.021462	0.012137	0.003409	0.034085
3-Apr-2029	0.844451	22.383100	35.015000	5.514460	78.599147	2.959270	0.034714	0.338902	0.081205	0.006203	0.003537	0.225285	0.001070	0.021706	0.012275	0.003447	0.034472
4-Apr-2029	0.844451	22.594000	35.344900	5.566410	79.339694	2.987150	0.035041	0.342095	0.081970	0.006261	0.003570	0.227407	0.001080	0.021910	0.012391	0.003480	0.034797
5-Apr-2029	0.844451	22.767900	35.617000	5.609260	79.950379	3.010150	0.035311	0.344728	0.082601	0.006309	0.003597	0.229158	0.001089	0.022079	0.012486	0.003506	0.035065
6-Apr-2029	0.844451	22.911100	35.841000	5.644540	80.453232	3.029080	0.035533	0.346897	0.083121	0.006349	0.003620	0.230599	0.001095	0.022218	0.012564	0.003529	0.035285
7-Apr-2029	0.844451	23.029400	36.026000	5.673680	80.868626	3.044720	0.035717	0.348688	0.083550	0.006382	0.003639	0.231789	0.001101	0.022333	0.012629	0.003547	0.035468
8-Apr-2029	0.844451	23.127600	36.179600	5.697870	81.213446	3.057700	0.035869	0.350174	0.083906	0.006409	0.003654	0.232778	0.001106	0.022428	0.012683	0.003562	0.035619
9-Apr-2029	0.844451	23.209600	36.308000	5.718080	81.501425	3.068550	0.035996	0.351416	0.084204	0.006432	0.003667	0.233603	0.001110	0.022507	0.012728	0.003575	0.035745
10-Apr-2029	0.844451	23.278300	36.415400	5.735010	81.742686	3.077630	0.036103	0.352456	0.084453	0.006451	0.003678	0.234295	0.001113	0.022574	0.012766	0.003585	0.035851
11-Apr-2029	0.844451	23.336800	36.507000	5.749430	81.948142	3.085370	0.036194	0.353343	0.084666	0.006467	0.003687	0.234884	0.001116	0.022631	0.012798	0.003594	0.035941
12-Apr-2029	0.844451	23.384000	36.580800	5.761060	82.113893	3.091610	0.036267	0.354057	0.084837	0.006480	0.003695	0.235359	0.001118	0.022676	0.012824	0.003601	0.036014
13-Apr-2029	0.844451	23.423900	36.643300	5.770890	82.254003	3.096890	0.036329	0.354662	0.084982	0.006491	0.003701	0.235761	0.001120	0.022715	0.012846	0.003608	0.036075
14-Apr-2029	0.844451	23.457800	36.696200	5.779230	82.372996	3.101360	0.036381	0.355174	0.085104	0.006500	0.003706	0.236101	0.001122	0.022748	0.012864	0.003613	0.036127
15-Apr-2029	0.844451	23.486400	36.741000	5.786290	82.473483	3.105150	0.036426	0.355608	0.085208	0.006508	0.003711	0.236390	0.001123	0.022776	0.012880	0.003617	0.036171
16-Apr-2029	0.844451	23.510800	36.779200	5.792290	82.559118	3.108370	0.036463	0.355977	0.085297	0.006515	0.003715	0.236635	0.001124	0.022799	0.012893	0.003621	0.036209
17-Apr-2029	0.844451	23.531800	36.812000	5.797470	82.632886	3.111150	0.036496	0.356295	0.085373	0.006521	0.003718	0.236847	0.001125	0.022820	0.012905	0.003624	0.036241
18-Apr-2029	0.844451	23.550000	36.840500	5.801960	82.696821	3.113560	0.036524	0.356571	0.085439	0.006526	0.003721	0.237030	0.001126	0.022837	0.012915	0.003627	0.036269
19-Apr-2029	0.844451	23.565900	36.865400	5.805870	82.752625	3.115650	0.036549	0.356811	0.085497	0.006530	0.003724	0.237190	0.001127	0.022853	0.012924	0.003629	0.036294
20-Apr-2029	0.844451	23.579800	36.887200	5.809300	82.801458	3.117500	0.036570	0.357022	0.085547	0.006534	0.003726	0.237331	0.001127	0.022866	0.012931	0.003632	0.036315
21-Apr-2029	0.844451	23.592300	36.906600	5.812370	82.845313	3.119140	0.036590	0.357210	0.085592	0.006538	0.003728	0.237456	0.001128	0.022878	0.012938	0.003633	0.036334
22-Apr-2029	0.844451	23.603400	36.924000	5.815110	82.884313	3.120610	0.036607	0.357379	0.085633	0.006541	0.003729	0.237568	0.001128	0.022889	0.012944	0.003635	0.036352
23-Apr-2029	0.844451	23.613500	36.939800	5.817590	82.919745	3.121940	0.036623	0.357531	0.085669	0.006544	0.003731	0.237669	0.001129	0.022899	0.012950	0.003637	0.036367
24-Apr-2029	0.844451	23.622600	36.954100	5.819840	82.951733	3.123150	0.036637	0.357670	0.085702	0.006546	0.003733	0.237761	0.001129	0.022908	0.012955	0.003638	0.036381
25-Apr-2029	0.844451	23.631000	36.967200	5.821910	82.981232	3.124260	0.036650	0.357797	0.085733	0.006548	0.003734	0.237846	0.001130	0.022916	0.012959	0.003639	0.036394
26-Apr-2029	0.844451	23.638800	36.979400	5.823830	83.008616	3.125290	0.036662	0.357914	0.085761	0.006551	0.003735	0.237924	0.001130	0.022924	0.012964	0.003641	0.036406
27-Apr-2029	0.844451	23.646000	36.990700	5.825620	83.033965	3.126250	0.036673	0.358024	0.085787	0.006553	0.003736	0.237997	0.001131	0.022931	0.012967	0.003642	0.036417
28-Apr-2029	0.844451	23.652900	37.001400	5.827300	83.058113	3.127150	0.036684	0.358127	0.085812	0.006554	0.003737	0.238066	0.001131	0.022937	0.012971	0.003643	0.036428
29-Apr-2029	0.844451	23.659300	37.011500	5.828890	83.080641	3.128000	0.036694	0.358225	0.085836	0.006556	0.003738	0.238131	0.001131	0.022943	0.012975	0.003644	0.036438
30-Apr-2029	0.844440	23.665500	37.021100	5.830400	83.102341	3.128810	0.036703	0.358318	0.085858	0.006558	0.003739	0.238193	0.001131	0.022949	0.012978	0.003645	0.036447
1-May-2029	0.844003	23.672100	37.031500	5.832050	83.125616	3.129690	0.036714	0.358419	0.085882	0.006560	0.003740	0.238260	0.001132	0.022956	0.012982	0.003646	0.036457
2-May-2029	0.841377	23.666400	37.022500	5.830630	83.105535	3.128930	0.036705	0.358332	0.085861	0.006558	0.003739	0.238203	0.001132	0.022950	0.012979	0.003645	0.036449
3-May-2029	0.838578	23.574600	36.878800	5.808020	82.783203	3.116790	0.036562	0.356942	0.085528	0.006533	0.003725	0.237279	0.001127	0.022861	0.012928	0.003631	0.036307
4-May-2029	0.835826	23.376100	36.568400	5.759140	82.086260	3.090550	0.036254	0.353937	0.084809	0.006478	0.003694	0.235284	0.001118	0.022669	0.012819	0.003600	0.036002
5-May-2029	0.832721	23.053000	36.062800	5.679530	80.951646	3.047820	0.035753	0.349043	0.083636	0.006388	0.003643	0.232032	0.001102	0.022356	0.012642	0.003550	0.035504
6-May-2029	0.829839	22.879600	35.791500	5.636840	80.342868	3.024880	0.035484	0.346417	0.083008	0.006340	0.003615	0.230290	0.001094	0.022187	0.012547	0.003524	0.035237
7-May-2029	0.826618	22.479900	35.166300	5.538380	78.939359	2.972050	0.034864	0.340366	0.081558	0.006229	0.003552	0.226267	0.001075	0.021800	0.012328	0.003462	0.034621
8-May-2029	0.823493	22.051700	34.496400	5.432850	77.435571	2.915430	0.034200	0.333883	0.080004	0.006111	0.003484	0.221955	0.001054	0.021385	0.012093	0.003396	0.033962
9-May-2029	0.817513	21.618000	33.818000	5.325980	75.912532	2.858100	0.033528	0.327316	0.078430	0.005991	0.003416	0.217587	0.001034	0.020964	0.011855	0.003329	0.033294
10-May-2029	0.813287	21.181400	33.135100	5.218390	74.379286	2.800400	0.032851	0.320707	0.076846	0.005870	0.003347	0.213189	0.001013	0.020540	0.011616	0.003262	0.032621
11-May-2029	0.809625	20.765400	32.484500	5.115890	72.918439	2.745410	0.032206	0.314410	0.075336	0.005754	0.003281	0.208999	0.000993	0.020137	0.011388	0.003198	0.031981
12-May-2029	0.806398	20.332500	31.807400	5.009220	71.398220	2.688200	0.031534	0.307857	0.073765	0.005634	0.003213	0.204640	0.000972	0.019717	0.011150	0.003131	0.031314
13-May-2029	0.802635	19.475900	30.467600	4.798050	68.389692	2.575000	0.030206	0.294890	0.070656	0.005397	0.003077	0.196003	0.000931	0.018886	0.010681	0.002999	0.029995
14-May-2029	0.800062	19.050800	29.802900	4.693310	66.896898	2.518820	0.029547	0.288455	0.069113	0.005279	0.003010	0.191721	0.000911	0.018474	0.010448	0.002934	0.029340
15-May-2029	0.795313	18.608700	29.111200	4.584330	65.344195	2.460380	0.028861	0.281762	0.067509	0.005156	0.002940	0.187265	0.000890	0.018045	0.010205	0.002866	0.028659
16-May-2029	0.776439	18.149700	28.393500	4.471210	63.732244	2.399730	0.028150	0.274815	0.065843	0.005029	0.002867	0.182639	0.000868	0.017600	0.009953	0.002795	0.027953
17-May-2029	0.773639	17.749300	27.767300	4.372520	62.326039	2.346820	0.027529	0.268754	0.064390	0.004918	0.002804	0.178604	0.000849	0.017211	0.009734	0.002734	0.027336
18-May-2029	0.771520	17.389800	27.204900	4.283900	61.063431	2.299310	0.026971	0.263311	0.063085	0.004818	0.002747	0.174980	0.000831	0.016863	0.009537	0.002678	0.026782
19-May-2029	0.765263	16.518200	25.841500	4.069180	58.002829	2.184070	0.025620	0.250115	0.059923	0.004577	0.002610	0.166208	0.000790	0.016018	0.009059	0.002544	0.025440
20-May-2029	0.762252	15.520400	24.280400	3.823370	54.499076	2.052130	0.024072	0.235005	0.056303	0.004300	0.002452	0.156169	0.000742	0.015050	0.008512	0.002390	0.023903
21-May-2029	0.762983	14.545200	22.757200	3.582440	51.071852	1.923560	0.022561	0.220260	0.052759	0.004029	0.002297	0.146258	0.000696	0.014103	0.007977	0.002240	0.022402
22-May-2029	0.763858	14.324700	22.411800	3.528190	50.297862	1.894330	0.022219	0.216915	0.051962	0.003968	0.002262	0.144045	0.000685	0.013889	0.007856	0.002206	0.022062
23-May-2029	0.769113	13.983200	21.876600	3.444320	49.099760	1.848980	0.021687	0.211724	0.050733	0.003873	0.002209	0.140628	0.000669	0.013559	0.007669	0.002154	0.021535

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
24-May-2029	0.770502	13.712600	21.453200	3.377740	48.149896	1.813170	0.021267	0.207624	0.049754	0.003798	0.002166	0.137911	0.000656	0.013297	0.007520	0.002112	0.021118
25-May-2029	0.770348	13.463600	21.063400	3.316460	47.275791	1.780200	0.020881	0.203849	0.048852	0.003729	0.002127	0.135411	0.000644	0.013056	0.007384	0.002073	0.020735
26-May-2029	0.774722	13.243000	20.718000	3.262200	46.501511	1.750980	0.020538	0.200503	0.048055	0.003668	0.002092	0.133197	0.000633	0.012842	0.007263	0.002039	0.020395
27-May-2029	0.785146	13.086400	20.472700	3.223700	45.951937	1.730200	0.020294	0.198125	0.047490	0.003624	0.002068	0.131627	0.000626	0.012691	0.007177	0.002015	0.020153
28-May-2029	0.794907	12.969800	20.289900	3.195110	45.543054	1.714690	0.020113	0.196350	0.047072	0.003592	0.002049	0.130463	0.000620	0.012578	0.007113	0.001997	0.019973
29-May-2029	0.806466	13.431500	21.013900	3.308330	47.162158	1.776130	0.020832	0.203381	0.048727	0.003721	0.002121	0.135075	0.000642	0.013024	0.007366	0.002069	0.020686
30-May-2029	0.816194	14.034100	21.957100	3.456680	49.277756	1.855870	0.021768	0.212512	0.050911	0.003888	0.002216	0.141129	0.000671	0.013608	0.007697	0.002161	0.021614
31-May-2029	0.820042	12.805500	20.034100	3.154230	44.964453	1.693270	0.019861	0.193894	0.046460	0.003547	0.002023	0.128787	0.000612	0.012417	0.007023	0.001972	0.019721
1-Jun-2029	0.820609	12.478900	19.523100	3.073820	43.817804	1.650060	0.019354	0.188947	0.045276	0.003457	0.001971	0.125506	0.000597	0.012101	0.006844	0.001922	0.019218
2-Jun-2029	0.823001	12.168500	19.033500	2.998570	42.732856	1.608160	0.018865	0.184162	0.044194	0.003370	0.001924	0.122470	0.000582	0.011804	0.006673	0.001874	0.018737
3-Jun-2029	0.831794	11.818600	18.483500	2.913120	41.507272	1.561360	0.018319	0.178829	0.042960	0.003272	0.001871	0.119000	0.000565	0.011468	0.006481	0.001820	0.018203
4-Jun-2029	0.832058	11.457900	17.897900	2.830450	40.266169	1.509180	0.017725	0.172998	0.042099	0.003165	0.001834	0.115797	0.000546	0.011145	0.006279	0.001766	0.017659
5-Jun-2029	0.834462	11.183900	17.450400	2.768360	39.326305	1.469010	0.017269	0.168521	0.041205	0.003083	0.001795	0.113415	0.000532	0.010903	0.006126	0.001724	0.017245
6-Jun-2029	0.835423	10.881100	16.958500	2.699410	38.286277	1.425350	0.016770	0.163626	0.040426	0.002993	0.001761	0.110882	0.000517	0.010635	0.005957	0.001678	0.016783
7-Jun-2029	0.831551	10.655800	16.581800	2.652700	37.531351	1.391200	0.016384	0.159826	0.039892	0.002924	0.001736	0.109124	0.000505	0.010453	0.005829	0.001644	0.016438
8-Jun-2029	0.839599	10.393500	16.144800	2.593710	36.633467	1.350360	0.015927	0.155315	0.039384	0.002842	0.001710	0.106892	0.000491	0.010223	0.005682	0.001604	0.016037
9-Jun-2029	0.873619	10.163400	15.750800	2.546720	35.865403	1.312960	0.015513	0.151201	0.038985	0.002768	0.001690	0.105267	0.000478	0.010042	0.005551	0.001568	0.015683
10-Jun-2029	0.938281	9.897650	15.293500	2.493130	34.981141	1.270770	0.015040	0.146542	0.038612	0.002684	0.001668	0.103527	0.000463	0.009838	0.005399	0.001529	0.015289
11-Jun-2029	1.027039	9.707000	14.986300	2.448730	34.322249	1.242390	0.014726	0.143430	0.038193	0.002628	0.001649	0.102013	0.000454	0.009667	0.005293	0.001499	0.014994
12-Jun-2029	1.126080	9.545920	14.715000	2.417740	33.792416	1.217320	0.014449	0.140679	0.038132	0.002579	0.001637	0.101020	0.000445	0.009551	0.005202	0.001475	0.014753
13-Jun-2029	1.229446	9.411150	14.484200	2.386500	33.327249	1.195550	0.014210	0.138295	0.037971	0.002538	0.001625	0.100042	0.000438	0.009429	0.005126	0.001455	0.014551
14-Jun-2029	1.326898	9.241930	14.193300	2.352190	32.763418	1.167970	0.013909	0.135284	0.037924	0.002485	0.001613	0.099048	0.000428	0.009305	0.005029	0.001430	0.014296
15-Jun-2029	1.408974	9.094470	13.938800	2.321940	32.270641	1.143750	0.013645	0.132662	0.037892	0.002439	0.001600	0.097952	0.000420	0.009184	0.004945	0.001408	0.014075
16-Jun-2029	1.477164	8.961240	13.708500	2.295020	31.827109	1.121780	0.013407	0.130287	0.037894	0.002398	0.001588	0.096997	0.000412	0.009082	0.004869	0.001388	0.013876
17-Jun-2029	1.518261	8.819220	13.459400	2.267280	31.358251	1.097680	0.013148	0.127721	0.037821	0.002353	0.001577	0.096104	0.000404	0.008979	0.004788	0.001367	0.013665
18-Jun-2029	1.558243	8.682490	13.220900	2.240150	30.905115	1.074770	0.012902	0.125285	0.037985	0.002311	0.001565	0.095297	0.000396	0.008878	0.004710	0.001346	0.013463
19-Jun-2029	1.628781	8.565540	13.009900	2.218390	30.523483	1.053970	0.012684	0.123095	0.038006	0.002275	0.001559	0.094852	0.000389	0.008801	0.004643	0.001329	0.013288
20-Jun-2029	1.740881	8.466820	12.834100	2.199610	30.199644	1.036790	0.012502	0.121294	0.037974	0.002245	0.001554	0.094400	0.000384	0.008733	0.004586	0.001314	0.013142
21-Jun-2029	1.875109	8.298320	12.536500	2.166700	29.643376	1.007990	0.012196	0.118238	0.037870	0.002195	0.001544	0.094416	0.000374	0.008613	0.004490	0.001289	0.012890
22-Jun-2029	2.001117	8.161520	12.292100	2.140760	29.194965	0.984087	0.011944	0.115732	0.037807	0.002153	0.001537	0.094884	0.000366	0.008520	0.004411	0.001269	0.012687
23-Jun-2029	2.134074	8.010500	12.028200	2.110390	28.692805	0.958861	0.011673	0.113025	0.037719	0.002109	0.001527	0.094861	0.000357	0.008409	0.004325	0.001246	0.012458
24-Jun-2029	2.296541	7.859420	11.763000	2.080420	28.192141	0.933358	0.011400	0.110302	0.037595	0.002064	0.001517	0.095085	0.000348	0.008300	0.004239	0.001223	0.012231
25-Jun-2029	2.484755	7.708570	11.499700	2.049960	27.690035	0.908231	0.011130	0.107603	0.037584	0.002019	0.001506	0.095188	0.000340	0.008189	0.004154	0.001200	0.012002
26-Jun-2029	2.673964	7.575980	11.264700	2.024120	27.252548	0.885482	0.010889	0.105194	0.037501	0.001980	0.001498	0.095344	0.000332	0.008096	0.004078	0.001180	0.011803
27-Jun-2029	2.828316	7.462530	11.063000	2.002340	26.879574	0.865840	0.010681	0.103126	0.037283	0.001946	0.001492	0.096083	0.000326	0.008017	0.004013	0.001163	0.011635
28-Jun-2029	2.981501	7.354840	10.873000	1.980870	26.522258	0.847635	0.010488	0.101187	0.037162	0.001916	0.001485	0.096631	0.000319	0.007941	0.003952	0.001147	0.011471
29-Jun-2029	3.163459	7.240900	10.674300	1.957750	26.142542	0.828726	0.010285	0.099163	0.037128	0.001883	0.001481	0.097042	0.000313	0.007857	0.003887	0.001130	0.011298
30-Jun-2029	3.415495	7.106090	10.438200	1.930640	25.694282	0.806163	0.010043	0.096750	0.037032	0.001844	0.001477	0.097239	0.000305	0.007759	0.003811	0.001109	0.011093
1-Jul-2029	4.435802	6.344660	9.080640	1.781300	23.178009	0.675761	0.008686	0.083076	0.034531	0.001634	0.001421	0.097361	0.000261	0.007238	0.003378	0.000996	0.009965
2-Jul-2029	5.650900	6.160850	8.797490	1.739520	22.546986	0.650240	0.008367	0.080049	0.033807	0.001565	0.001396	0.092377	0.000252	0.007043	0.003273	0.000968	0.009679
3-Jul-2029	6.700181	6.050690	8.610430	1.718590	22.185727	0.632526	0.008170	0.078108	0.034121	0.001537	0.001388	0.093932	0.000246	0.006952	0.003208	0.000950	0.009501
4-Jul-2029	8.431253	5.883490	8.315100	1.683810	21.625004	0.604988	0.007887	0.075342	0.034145	0.001561	0.001391	0.092190	0.000236	0.006890	0.003121	0.000929	0.009288
5-Jul-2029	9.248633	6.302380	9.069020	1.747590	22.933618	0.679654	0.008640	0.082875	0.033781	0.001616	0.001388	0.088308	0.000261	0.007177	0.003372	0.000993	0.009929
6-Jul-2029	9.990889	6.203220	8.871480	1.733170	22.626634	0.660417	0.008466	0.081135	0.033622	0.001610	0.001387	0.086631	0.000255	0.007124	0.003314	0.000976	0.009763
7-Jul-2029	9.792165	6.236440	8.932580	1.738720	22.732440	0.666686	0.008528	0.081759	0.033570	0.001623	0.001387	0.085461	0.000257	0.007143	0.003333	0.000981	0.009808
8-Jul-2029	9.913770	6.188040	8.851330	1.731320	22.581112	0.658654	0.008441	0.080884	0.033341	0.001604	0.001387	0.086401	0.000254	0.007092	0.003302	0.000973	0.009730
9-Jul-2029	10.396168	6.556260	9.520450	1.789260	23.739154	0.725595	0.009112	0.087603	0.033876	0.001719	0.001393	0.086765	0.000277	0.007367	0.003525	0.001029	0.010290
10-Jul-2029	10.927400	6.788470	9.945310	1.824510	24.464142	0.768268	0.009536	0.091848	0.034186	0.001789	0.001397	0.086379	0.000291	0.007539	0.003666	0.001064	0.010640
11-Jul-2029	10.879234	6.499750	9.420170	1.782860	23.571693	0.715456	0.009008	0.086555	0.033593	0.001703	0.001391	0.085498	0.000273	0.007307	0.003488	0.001020	0.010197
12-Jul-2029	11.266624	6.540100	9.494470	1.789930	23.701561	0.722843	0.009081	0.087285	0.033594	0.001715	0.001392	0.086396	0.000276	0.007332	0.003511	0.001026	0.010257
13-Jul-2029	12.244478	6.675410	9.741620	1.812160	24.130974	0.747566	0.009327	0.089746	0.033698	0.001759	0.001395	0.085811	0.000284	0.007425	0.003591	0.001046	0.010459
14-Jul-2029	12.867299	6.564470	9.536230	1.796140	23.787986	0.726903	0.009124	0.087709	0.033503	0.001728	0.001393	0.087310	0.000277	0.007343	0.003524	0.001029	0.010287
15-Jul-2029	13.442967	6.636090	9.659220	1.807970	24.015537	0.739346	0.009256	0.089031	0.033603	0.001760	0.001396	0.087558	0.000281	0.007405	0.003567	0.001039	0.010389

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
16-Jul-2029	13.084058	6.627310	9.649870	1.807510	23.991719	0.738188	0.009237	0.088844	0.033491	0.001750	0.001395	0.087067	0.000281	0.007383	0.003560	0.001038	0.010378
17-Jul-2029	12.733008	6.577760	9.559100	1.800940	23.840938	0.728985	0.009145	0.087921	0.033363	0.001736	0.001394	0.086710	0.000278	0.007341	0.003529	0.001030	0.010300
18-Jul-2029	11.276582	6.604930	9.608790	1.806160	23.930277	0.733883	0.009194	0.088407	0.033348	0.001745	0.001396	0.087925	0.000280	0.007356	0.003544	0.001034	0.010340
19-Jul-2029	10.911975	6.676060	9.739170	1.817940	24.156399	0.746886	0.009323	0.089700	0.033404	0.001767	0.001397	0.088744	0.000284	0.007405	0.003586	0.001045	0.010447
20-Jul-2029	11.460382	6.800480	9.964800	1.837070	24.545853	0.769545	0.009550	0.091973	0.033580	0.001806	0.001400	0.089061	0.000292	0.007499	0.003662	0.001063	0.010634
21-Jul-2029	12.448276	6.836420	10.030100	1.842610	24.658409	0.776061	0.009616	0.092626	0.033638	0.001817	0.001401	0.087710	0.000294	0.007527	0.003684	0.001069	0.010688
22-Jul-2029	12.915588	7.188720	10.675400	1.898810	25.769533	0.840660	0.010259	0.099062	0.034012	0.001925	0.001408	0.087520	0.000315	0.007776	0.003895	0.001122	0.011220
23-Jul-2029	13.829383	6.978030	10.293800	1.869160	25.121342	0.802100	0.009871	0.095190	0.033583	0.001859	0.001404	0.087955	0.000303	0.007602	0.003764	0.001090	0.010899
24-Jul-2029	14.441472	7.272500	10.830500	1.914560	26.043591	0.855957	0.010409	0.100566	0.033983	0.001950	0.001410	0.087058	0.000320	0.007821	0.003942	0.001134	0.011344
25-Jul-2029	15.031262	7.131130	10.574200	1.894160	25.606582	0.830124	0.010150	0.097974	0.033714	0.001906	0.001407	0.086604	0.000312	0.007707	0.003855	0.001113	0.011129
26-Jul-2029	15.450362	7.214540	10.725600	1.907420	25.869462	0.845286	0.010302	0.099490	0.033816	0.001933	0.001409	0.086901	0.000317	0.007768	0.003905	0.001125	0.011254
27-Jul-2029	15.615568	7.314000	10.905100	1.922470	26.179789	0.863344	0.010484	0.101302	0.033970	0.001965	0.001411	0.087283	0.000323	0.007846	0.003966	0.001140	0.011403
28-Jul-2029	15.675050	7.624310	11.473500	1.971200	27.155304	0.920277	0.011051	0.106974	0.034345	0.002059	0.001418	0.088132	0.000342	0.008069	0.004152	0.001187	0.011872
29-Jul-2029	15.554159	7.256380	10.800500	1.914440	26.002845	0.852732	0.010377	0.100228	0.033828	0.001947	0.001410	0.087676	0.000319	0.007798	0.003930	0.001131	0.011313
30-Jul-2029	16.338671	7.385450	11.041100	1.936870	26.417499	0.876583	0.010610	0.102559	0.033839	0.001983	0.001413	0.087285	0.000328	0.007874	0.004004	0.001151	0.011507
31-Jul-2029	15.406226	7.327400	10.934200	1.928350	26.237463	0.865836	0.010503	0.101491	0.033740	0.001967	0.001412	0.087220	0.000324	0.007830	0.003969	0.001142	0.011418
1-Aug-2029	15.176934	7.272410	10.834700	1.920990	26.069845	0.855691	0.010399	0.100441	0.033591	0.001949	0.001411	0.087671	0.000321	0.007782	0.003934	0.001133	0.011328
2-Aug-2029	14.641521	7.319490	10.921200	1.931110	26.229078	0.864126	0.010481	0.101248	0.033521	0.001967	0.001412	0.087881	0.000324	0.007802	0.003959	0.001140	0.011399
3-Aug-2029	14.414342	7.546690	11.336200	1.966760	26.943203	0.905586	0.010891	0.105348	0.033799	0.002036	0.001417	0.088121	0.000337	0.007968	0.004096	0.001174	0.011742
4-Aug-2029	14.601229	7.673910	11.570500	1.987260	27.345290	0.928909	0.011119	0.107626	0.033916	0.002073	0.001420	0.088171	0.000345	0.008055	0.004172	0.001193	0.011934
5-Aug-2029	14.064649	7.338270	10.955000	1.936230	26.297055	0.867117	0.010505	0.101476	0.033415	0.001973	0.001414	0.088847	0.000325	0.007806	0.003968	0.001142	0.011422
6-Aug-2029	13.706408	7.560850	11.366100	1.971460	26.997915	0.908131	0.010907	0.105496	0.033654	0.002037	0.001418	0.088635	0.000338	0.007960	0.004101	0.001176	0.011761
7-Aug-2029	13.045004	7.416130	11.101500	1.950940	26.552048	0.881373	0.010638	0.102792	0.033352	0.001994	0.001415	0.088727	0.000330	0.007844	0.004012	0.001154	0.011538
8-Aug-2029	13.210425	7.761100	11.735200	2.004950	27.635851	0.944715	0.011263	0.109046	0.033791	0.002096	0.001422	0.088697	0.000351	0.008091	0.004219	0.001206	0.012063
9-Aug-2029	13.554762	7.552790	11.354500	1.974810	26.991584	0.906293	0.010877	0.105183	0.033411	0.002034	0.001418	0.088398	0.000338	0.007928	0.004091	0.001174	0.011744
10-Aug-2029	12.899378	8.009850	12.186500	2.046090	28.426394	0.989643	0.011707	0.113472	0.034012	0.002177	0.001428	0.089208	0.000366	0.008266	0.004367	0.001243	0.012431
11-Aug-2029	12.315089	7.764720	11.741300	2.010130	27.666221	0.944723	0.011255	0.108944	0.033576	0.002101	0.001423	0.088418	0.000351	0.008072	0.004216	0.001206	0.012060
12-Aug-2029	12.829333	7.672490	11.575200	1.997020	27.381936	0.927844	0.011082	0.107208	0.033353	0.002070	0.001422	0.089300	0.000345	0.007994	0.004159	0.001192	0.011918
13-Aug-2029	11.998172	7.638940	11.509200	1.994190	27.286508	0.921070	0.011014	0.106519	0.033226	0.002069	0.001422	0.089827	0.000343	0.007968	0.004137	0.001186	0.011860
14-Aug-2029	11.675859	7.746650	11.710800	2.011000	27.624683	0.941102	0.011208	0.108464	0.033331	0.002095	0.001424	0.089010	0.000350	0.008037	0.004201	0.001203	0.012027
15-Aug-2029	11.666025	7.746220	11.713800	2.013620	27.634399	0.940955	0.011198	0.108357	0.033226	0.002092	0.001424	0.088635	0.000350	0.008020	0.004197	0.001203	0.012027
16-Aug-2029	11.676417	7.904780	12.009100	2.040610	28.141468	0.970173	0.011479	0.111161	0.033266	0.002137	0.001427	0.089243	0.000360	0.008116	0.004290	0.001227	0.012268
17-Aug-2029	10.532686	7.974310	12.117400	2.042710	28.323732	0.982099	0.011614	0.112486	0.033765	0.002171	0.001428	0.089363	0.000364	0.008232	0.004344	0.001236	0.012363
18-Aug-2029	9.805154	7.894860	11.977200	2.034620	28.092031	0.967568	0.011464	0.110987	0.033447	0.002145	0.001427	0.089593	0.000359	0.008147	0.004290	0.001224	0.012242
19-Aug-2029	9.728962	7.803920	11.813400	2.022390	27.814590	0.950902	0.011295	0.109301	0.033236	0.002117	0.001426	0.089715	0.000353	0.008070	0.004233	0.001210	0.012104
20-Aug-2029	9.759188	8.382370	12.868700	2.110050	29.619964	1.056820	0.012349	0.119845	0.034097	0.002292	0.001437	0.090338	0.000389	0.008506	0.004585	0.001298	0.012980
21-Aug-2029	9.262157	8.117940	12.390600	2.073460	28.809004	1.008290	0.011855	0.114888	0.033516	0.002209	0.001432	0.090000	0.000373	0.008283	0.004420	0.001258	0.012578
22-Aug-2029	9.560314	8.135400	12.422900	2.076650	28.865739	1.011450	0.011885	0.115189	0.033506	0.002214	0.001433	0.089686	0.000374	0.008293	0.004430	0.001260	0.012603
23-Aug-2029	10.030635	8.320860	12.764200	2.108700	29.460814	1.045160	0.012210	0.118426	0.033594	0.002271	0.001437	0.090012	0.000385	0.008410	0.004538	0.001288	0.012880
24-Aug-2029	9.841401	8.092170	12.345200	2.073790	28.746016	1.003120	0.011793	0.114245	0.033252	0.002203	0.001432	0.090045	0.000371	0.008240	0.004399	0.001253	0.012531
25-Aug-2029	10.424250	8.117020	12.388300	2.080080	28.833968	1.007130	0.011827	0.114578	0.033186	0.002215	0.001434	0.089857	0.000373	0.008251	0.004412	0.001256	0.012563
26-Aug-2029	10.297853	8.430080	12.961600	2.128550	29.815279	1.064550	0.012396	0.120271	0.033584	0.002309	0.001440	0.090563	0.000392	0.008479	0.004601	0.001304	0.013037
27-Aug-2029	9.793914	8.144040	12.441400	2.086050	28.926022	1.012120	0.011871	0.115007	0.033102	0.002220	0.001434	0.090285	0.000374	0.008256	0.004426	0.001260	0.012604
28-Aug-2029	8.690733	8.174950	12.498600	2.092060	29.027953	1.017670	0.011922	0.115521	0.033078	0.002229	0.001435	0.089734	0.000376	0.008273	0.004443	0.001265	0.012649
29-Aug-2029	8.313403	8.180800	12.510800	2.093880	29.050055	1.018730	0.011930	0.115591	0.033039	0.002229	0.001435	0.089904	0.000377	0.008270	0.004445	0.001266	0.012657
30-Aug-2029	8.824587	8.189170	12.532800	2.098720	29.090886	1.020350	0.011934	0.115625	0.032924	0.002228	0.001436	0.089555	0.000377	0.008251	0.004446	0.001267	0.012672
31-Aug-2029	8.173182	8.235680	12.617500	2.105960	29.236836	1.028820	0.012018	0.116464	0.032938	0.002242	0.001437	0.090594	0.000380	0.008285	0.004474	0.001274	0.012741
1-Sep-2029	8.174545	8.318350	12.770800	2.119220	29.497868	1.044130	0.012167	0.117950	0.032961	0.002266	0.001438	0.089888	0.000385	0.008339	0.004523	0.001286	0.012865
2-Sep-2029	8.234958	8.349680	12.826600	2.122650	29.590224	1.050000	0.012229	0.118571	0.033039	0.002277	0.001438	0.090196	0.000387	0.008369	0.004543	0.001291	0.012911
3-Sep-2029	8.581394	8.368900	12.862700	2.125530	29.650076	1.053800	0.012263	0.118915	0.033004	0.002286	0.001437	0.090571	0.000389	0.008380	0.004555	0.001294	0.012936
4-Sep-2029	7.929797	8.464000	13.035200	2.140520	29.949269	1.071110	0.012435	0.120628	0.033109	0.002318	0.001439	0.090382	0.000394	0.008450	0.004613	0.001308	0.013077
5-Sep-2029	7.739418	8.442170	12.997500	2.137460	29.882159	1.067380	0.012394	0.120225	0.033022	0.002312	0.001438	0.091038	0.000393	0.008428	0.004599	0.001304	0.013042
6-Sep-2029	7.278348	8.495640	13.094400	2.146170	30.051541	1.077170	0.012489	0.121175	0.033033	0.002333	0.001439	0.090976	0.000396	0.008465	0.004631	0.001312	0.013119

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
7-Sep-2029	6.572997	8.502800	13.110100	2.147100	30.073249	1.078830	0.012504	0.121327	0.033015	0.002333	0.001438	0.090880	0.000397	0.008466	0.004635	0.001313	0.013130
8-Sep-2029	6.154505	8.557460	13.212500	2.155510	30.244368	1.089180	0.012604	0.122337	0.033045	0.002350	0.001439	0.090696	0.000400	0.008502	0.004668	0.001321	0.013213
9-Sep-2029	5.654366	8.596260	13.284600	2.161570	30.366206	1.096470	0.012675	0.123047	0.033065	0.002362	0.001439	0.090680	0.000403	0.008527	0.004691	0.001327	0.013271
10-Sep-2029	5.643982	8.603710	13.300700	2.162880	30.390204	1.098170	0.012689	0.123180	0.033018	0.002365	0.001438	0.091089	0.000403	0.008526	0.004695	0.001328	0.013279
11-Sep-2029	5.129130	8.625540	13.340100	2.166440	30.459373	1.102160	0.012727	0.123566	0.033009	0.002375	0.001438	0.091597	0.000405	0.008542	0.004708	0.001331	0.013310
12-Sep-2029	4.548669	8.816580	13.693200	2.195330	31.055369	1.137700	0.013079	0.127092	0.033246	0.002429	0.001441	0.091297	0.000417	0.008678	0.004824	0.001360	0.013601
13-Sep-2029	4.217904	8.756340	13.584100	2.186520	30.868670	1.126840	0.012968	0.125976	0.033095	0.002413	0.001439	0.091183	0.000413	0.008628	0.004787	0.001351	0.013506
14-Sep-2029	3.546580	8.794680	13.655700	2.192320	30.988290	1.134070	0.013039	0.126689	0.033129	0.002425	0.001439	0.091094	0.000415	0.008654	0.004810	0.001357	0.013565
15-Sep-2029	2.578436	8.839250	13.739400	2.199230	31.128036	1.142530	0.013121	0.127514	0.033151	0.002438	0.001440	0.091151	0.000418	0.008682	0.004837	0.001363	0.013632
16-Sep-2029	2.101345	8.855550	13.770200	2.201770	31.179197	1.145650	0.013150	0.127811	0.033149	0.002442	0.001440	0.091162	0.000419	0.008692	0.004847	0.001366	0.013656
17-Sep-2029	1.855304	9.031440	14.096000	2.228520	31.728551	1.178500	0.013474	0.131055	0.033335	0.002495	0.001442	0.091512	0.000430	0.008815	0.004953	0.001392	0.013923
18-Sep-2029	1.809763	9.037940	14.106700	2.229310	31.748035	1.179590	0.013485	0.131162	0.033348	0.002498	0.001442	0.091588	0.000431	0.008822	0.004957	0.001393	0.013931
19-Sep-2029	1.871026	9.039780	14.121200	2.229460	31.753247	1.181420	0.013494	0.131267	0.033204	0.002496	0.001439	0.091440	0.000431	0.008803	0.004957	0.001393	0.013935
20-Sep-2029	1.803453	9.343630	14.670000	2.275910	32.703241	1.236350	0.014045	0.136773	0.033693	0.002591	0.001446	0.092327	0.000449	0.009041	0.005142	0.001439	0.014392
21-Sep-2029	1.650082	9.021580	14.082900	2.227200	31.698495	1.177500	0.013456	0.130871	0.033166	0.002495	0.001439	0.091903	0.000430	0.008795	0.004946	0.001390	0.013901
22-Sep-2029	1.503341	9.059990	14.156800	2.233340	31.819689	1.184860	0.013528	0.131598	0.033219	0.002503	0.001440	0.091541	0.000432	0.008817	0.004969	0.001396	0.013962
23-Sep-2029	1.486957	9.098430	14.227700	2.239270	31.940094	1.192130	0.013597	0.132292	0.033185	0.002518	0.001439	0.091563	0.000435	0.008842	0.004992	0.001402	0.014016
24-Sep-2029	1.120714	9.125090	14.277200	2.243470	32.023959	1.197080	0.013646	0.132782	0.033210	0.002525	0.001440	0.091586	0.000436	0.008860	0.005008	0.001406	0.014057
25-Sep-2029	0.718184	9.418340	14.814800	2.288020	32.939661	1.251170	0.014183	0.138158	0.033597	0.002615	0.001445	0.092386	0.000454	0.009076	0.005186	0.001450	0.014501
26-Sep-2029	0.751021	9.253390	14.516700	2.262980	32.424666	1.221350	0.013883	0.135151	0.033292	0.002565	0.001440	0.091821	0.000444	0.008945	0.005085	0.001425	0.014249
27-Sep-2029	0.785409	9.359500	14.712000	2.279270	32.756705	1.241150	0.014077	0.137093	0.033380	0.002600	0.001441	0.092176	0.000451	0.009020	0.005149	0.001441	0.014406
28-Sep-2029	0.369820	9.248650	14.510600	2.262400	32.410442	1.220920	0.013874	0.135068	0.033205	0.002565	0.001439	0.092123	0.000444	0.008935	0.005082	0.001424	0.014239
29-Sep-2029	0.004477	9.288110	14.585000	2.268560	32.534341	1.228500	0.013947	0.135802	0.033201	0.002582	0.001439	0.092188	0.000447	0.008958	0.005105	0.001430	0.014297
30-Sep-2029	0.002677	9.299270	14.606900	2.270540	32.570361	1.230740	0.013968	0.136011	0.033173	0.002586	0.001439	0.092203	0.000448	0.008962	0.005112	0.001431	0.014313
1-Oct-2029	0.003164	9.287150	14.586300	2.268680	32.532438	1.228780	0.013947	0.135803	0.033121	0.002578	0.001438	0.092067	0.000447	0.008950	0.005104	0.001429	0.014294
2-Oct-2029	0.022513	9.270260	14.556100	2.265910	32.478857	1.225830	0.013917	0.135505	0.033086	0.002574	0.001437	0.091912	0.000446	0.008936	0.005094	0.001427	0.014268
3-Oct-2029	0.111864	9.257520	14.533400	2.263660	32.437779	1.223630	0.013895	0.135284	0.033067	0.002570	0.001436	0.091830	0.000445	0.008927	0.005087	0.001425	0.014249
4-Oct-2029	0.234439	9.251110	14.521900	2.262420	32.416667	1.222530	0.013884	0.135172	0.033059	0.002568	0.001436	0.091783	0.000445	0.008922	0.005083	0.001424	0.014239
5-Oct-2029	0.110935	9.246490	14.513900	2.261640	32.401919	1.221750	0.013876	0.135094	0.033050	0.002567	0.001436	0.091683	0.000445	0.008918	0.005080	0.001423	0.014232
6-Oct-2029	0.004482	9.225900	14.477700	2.257780	32.334610	1.218330	0.013840	0.134744	0.033007	0.002561	0.001434	0.091615	0.000443	0.008902	0.005068	0.001420	0.014201
7-Oct-2029	0.106993	9.204540	14.439000	2.254310	32.266985	1.214480	0.013802	0.134365	0.032988	0.002555	0.001434	0.091548	0.000442	0.008887	0.005055	0.001417	0.014169
8-Oct-2029	0.191580	9.196700	14.425000	2.252940	32.241767	1.213110	0.013789	0.134229	0.032981	0.002552	0.001434	0.091506	0.000442	0.008881	0.005051	0.001416	0.014157
9-Oct-2029	0.219448	9.186500	14.406800	2.251140	32.208885	1.211360	0.013771	0.134052	0.032964	0.002549	0.001433	0.091448	0.000441	0.008873	0.005045	0.001414	0.014142
10-Oct-2029	0.146115	9.169420	14.376500	2.248130	32.153841	1.208410	0.013741	0.133758	0.032945	0.002544	0.001432	0.091392	0.000440	0.008860	0.005035	0.001412	0.014117
11-Oct-2029	0.009670	9.135090	14.314000	2.242620	32.045429	1.202130	0.013679	0.133144	0.032926	0.002532	0.001432	0.091342	0.000438	0.008836	0.005014	0.001407	0.014066
12-Oct-2029	0.012324	9.114080	14.276300	2.239040	31.978224	1.198430	0.013642	0.132777	0.032899	0.002526	0.001431	0.091165	0.000437	0.008821	0.005002	0.001404	0.014035
13-Oct-2029	0.049016	9.104830	14.260300	2.237400	31.948374	1.196930	0.013627	0.132622	0.032884	0.002523	0.001431	0.091124	0.000436	0.008813	0.004996	0.001402	0.014021
14-Oct-2029	0.074509	9.097340	14.247000	2.236090	31.924277	1.195610	0.013614	0.132492	0.032868	0.002521	0.001430	0.091129	0.000436	0.008807	0.004992	0.001401	0.014010
15-Oct-2029	0.105516	9.087890	14.230600	2.234310	31.893350	1.194030	0.013597	0.132332	0.032854	0.002518	0.001429	0.091071	0.000435	0.008800	0.004986	0.001400	0.013996
16-Oct-2029	0.106370	9.095180	14.241700	2.236190	31.919295	1.194940	0.013608	0.132435	0.032880	0.002520	0.001430	0.091093	0.000436	0.008807	0.004990	0.001401	0.014007
17-Oct-2029	0.109955	9.181440	14.376800	2.257390	32.221988	1.206270	0.013737	0.133691	0.033191	0.002544	0.001444	0.091957	0.000440	0.008891	0.005038	0.001414	0.014140
18-Oct-2029	0.110207	9.260260	14.500100	2.276810	32.498773	1.216610	0.013855	0.134837	0.033477	0.002565	0.001456	0.092798	0.000443	0.008967	0.005081	0.001426	0.014262
19-Oct-2029	0.109296	9.318250	14.587900	2.292090	32.706497	1.223620	0.013938	0.135642	0.033720	0.002581	0.001467	0.093407	0.000446	0.009026	0.005112	0.001435	0.014352
20-Oct-2029	0.110188	9.385430	14.693100	2.308620	32.942316	1.232490	0.014039	0.136622	0.033963	0.002600	0.001478	0.094082	0.000449	0.009091	0.005149	0.001446	0.014455
21-Oct-2029	0.113606	9.433900	14.770000	2.320190	33.110991	1.239020	0.014112	0.137339	0.034127	0.002613	0.001485	0.094540	0.000452	0.009137	0.005176	0.001453	0.014529
22-Oct-2029	0.115907	9.431810	14.767200	2.319520	33.103013	1.238840	0.014110	0.137315	0.034114	0.002613	0.001484	0.094597	0.000452	0.009135	0.005175	0.001453	0.014526
23-Oct-2029	0.118154	9.424530	14.755300	2.318810	33.081911	1.237800	0.014098	0.137203	0.034092	0.002612	0.001489	0.095252	0.000451	0.009128	0.005171	0.001451	0.014515
24-Oct-2029	0.119381	9.448770	14.763900	2.332880	33.200379	1.238390	0.014106	0.137276	0.034291	0.002628	0.001499	0.095901	0.000451	0.009175	0.005179	0.001454	0.014544
25-Oct-2029	0.119180	9.503940	14.847500	2.347270	33.397396	1.242850	0.014182	0.137957	0.034500	0.002645	0.001508	0.096566	0.000454	0.009231	0.005209	0.001463	0.014628
26-Oct-2029	0.119257	9.561240	14.934700	2.362130	33.601668	1.249960	0.014264	0.138759	0.034717	0.002662	0.001519	0.097245	0.000456	0.009288	0.005240	0.001472	0.014715
27-Oct-2029	0.119578	9.620570	15.025600	2.377350	33.812491	1.257410	0.014351	0.139597	0.034939	0.002679	0.001529	0.097924	0.000459	0.009347	0.005272	0.001481	0.014806
28-Oct-2029	0.120038	9.682780	15.121600	2.393070	34.032564	1.265350	0.014442	0.140486	0.035169	0.002696	0.001539	0.098605	0.000462	0.009409	0.005306	0.001490	0.014902
29-Oct-2029	0.120823	9.747020	15.221400	2.409110	34.259024	1.273660	0.014538	0.141411	0.035404	0.002715	0.001549	0.099282	0.000465	0.009472	0.005341	0.001500	0.015000

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
30-Oct-2029	0.121907	9.814130	15.326100	2.425730	34.495039	1.282410	0.014638	0.142384	0.035649	0.002733	0.001560	0.099969	0.000468	0.009537	0.005378	0.001510	0.015104
31-Oct-2029	0.122555	9.884140	15.435200	2.443070	34.741260	1.291520	0.014742	0.143398	0.035906	0.002753	0.001571	0.100688	0.000471	0.009605	0.005417	0.001521	0.015211
1-Nov-2029	0.123336	9.954420	15.544200	2.460640	34.989102	1.300580	0.014846	0.144409	0.036167	0.002773	0.001583	0.101431	0.000475	0.009674	0.005455	0.001532	0.015319
2-Nov-2029	0.124392	10.021300	15.647400	2.477490	35.225490	1.309110	0.014945	0.145365	0.036418	0.002791	0.001594	0.102155	0.000478	0.009740	0.005491	0.001542	0.015422
3-Nov-2029	0.124619	10.084100	15.744300	2.493310	35.447448	1.317130	0.015037	0.146264	0.036656	0.002809	0.001604	0.102836	0.000481	0.009803	0.005526	0.001552	0.015519
4-Nov-2029	0.124402	10.145500	15.839600	2.508650	35.663934	1.325040	0.015128	0.147149	0.036887	0.002826	0.001614	0.103485	0.000484	0.009863	0.005559	0.001561	0.015613
5-Nov-2029	0.123978	10.214000	15.947100	2.525370	35.903832	1.334080	0.015231	0.148152	0.037139	0.002845	0.001625	0.104157	0.000487	0.009930	0.005597	0.001572	0.015719
6-Nov-2029	0.124324	10.268600	16.035700	2.537800	36.091355	1.341770	0.015316	0.148986	0.037325	0.002859	0.001632	0.104571	0.000490	0.009980	0.005627	0.001580	0.015804
7-Nov-2029	0.124871	10.314400	16.111000	2.547930	36.247433	1.348410	0.015389	0.149699	0.037476	0.002870	0.001638	0.104877	0.000492	0.010022	0.005653	0.001588	0.015876
8-Nov-2029	0.125050	10.360100	16.186700	2.557980	36.402931	1.355080	0.015462	0.150414	0.037624	0.002882	0.001644	0.105171	0.000495	0.010062	0.005679	0.001595	0.015947
9-Nov-2029	0.124858	10.413800	16.273200	2.570470	36.588454	1.362540	0.015545	0.151225	0.037808	0.002895	0.001651	0.105611	0.000497	0.010112	0.005709	0.001603	0.016031
10-Nov-2029	0.124665	10.467400	16.358300	2.583300	36.775127	1.369780	0.015626	0.152021	0.037998	0.002910	0.001659	0.106099	0.000500	0.010163	0.005738	0.001611	0.016114
11-Nov-2029	0.125074	10.512700	16.429700	2.594290	36.933498	1.375810	0.015694	0.152686	0.038160	0.002922	0.001666	0.106532	0.000502	0.010207	0.005763	0.001618	0.016183
12-Nov-2029	0.125232	10.554000	16.494500	2.604430	37.078381	1.381240	0.015756	0.153289	0.038310	0.002934	0.001673	0.106942	0.000504	0.010247	0.005786	0.001625	0.016247
13-Nov-2029	0.124938	10.595800	16.559800	2.614690	37.225006	1.386720	0.015819	0.153896	0.038461	0.002945	0.001679	0.107359	0.000506	0.010287	0.005809	0.001631	0.016311
14-Nov-2029	0.124494	10.642900	16.634000	2.626160	37.389848	1.392970	0.015890	0.154587	0.038630	0.002958	0.001687	0.107816	0.000508	0.010333	0.005835	0.001638	0.016384
15-Nov-2029	0.124422	10.687200	16.704200	2.636780	37.544198	1.398940	0.015957	0.155242	0.038786	0.002970	0.001693	0.108221	0.000510	0.010375	0.005859	0.001645	0.016453
16-Nov-2029	0.124748	10.730600	16.773200	2.647150	37.695272	1.404820	0.016023	0.155887	0.038938	0.002982	0.001700	0.108613	0.000513	0.010416	0.005883	0.001652	0.016520
17-Nov-2029	0.124957	10.782600	16.855200	2.659830	37.877332	1.411730	0.016101	0.156650	0.039125	0.002996	0.001708	0.109117	0.000515	0.010466	0.005912	0.001660	0.016600
18-Nov-2029	0.124808	10.833800	16.935600	2.672330	38.056654	1.418500	0.016178	0.157399	0.039309	0.003010	0.001716	0.109617	0.000517	0.010515	0.005940	0.001668	0.016679
19-Nov-2029	0.124854	10.813200	16.904200	2.667010	37.983308	1.415930	0.016148	0.157109	0.039231	0.003004	0.001712	0.109375	0.000517	0.010495	0.005929	0.001665	0.016647
20-Nov-2029	0.124987	10.856700	16.972700	2.677590	38.135496	1.421710	0.016214	0.157747	0.039387	0.003016	0.001719	0.109795	0.000519	0.010536	0.005953	0.001671	0.016715
21-Nov-2029	0.125014	10.912000	17.059300	2.691200	38.329626	1.428970	0.016296	0.158552	0.039587	0.003031	0.001727	0.110351	0.000521	0.010590	0.005983	0.001680	0.016800
22-Nov-2029	0.124839	10.964900	17.142200	2.704180	38.515169	1.435940	0.016376	0.159324	0.039778	0.003046	0.001736	0.110874	0.000524	0.010641	0.006012	0.001688	0.016881
23-Nov-2029	0.124924	11.009100	17.211900	2.714900	38.669681	1.441830	0.016442	0.159973	0.039936	0.003058	0.001742	0.111296	0.000526	0.010683	0.006036	0.001695	0.016950
24-Nov-2029	0.125037	11.041100	17.261400	2.722960	38.782776	1.445930	0.016490	0.160432	0.040054	0.003067	0.001748	0.111641	0.000527	0.010715	0.006054	0.001700	0.016999
25-Nov-2029	0.125000	11.096800	17.348300	2.736730	38.978564	1.453190	0.016573	0.161238	0.040257	0.003082	0.001757	0.112210	0.000530	0.010769	0.006084	0.001708	0.017084
26-Nov-2029	0.124857	11.152000	17.434200	2.750480	39.173021	1.460350	0.016655	0.162036	0.040459	0.003098	0.001766	0.112786	0.000533	0.010823	0.006114	0.001717	0.017169
27-Nov-2029	0.124889	11.210800	17.525800	2.765040	39.379802	1.468010	0.016742	0.162887	0.040673	0.003114	0.001775	0.113388	0.000536	0.010880	0.006147	0.001726	0.017260
28-Nov-2029	0.124976	11.278200	17.631100	2.781730	39.616830	1.476810	0.016843	0.163865	0.040918	0.003133	0.001786	0.114077	0.000539	0.010946	0.006184	0.001736	0.017363
29-Nov-2029	0.124907	11.158700	17.444900	2.752080	39.196339	1.461260	0.016665	0.162135	0.040482	0.003100	0.001767	0.112844	0.000533	0.010829	0.006118	0.001718	0.017180
30-Nov-2029	0.124899	11.206400	17.519500	2.763840	39.363874	1.467510	0.016736	0.162829	0.040655	0.003113	0.001774	0.113325	0.000535	0.010876	0.006144	0.001725	0.017253
1-Dec-2029	0.124981	11.263300	17.608200	2.777940	39.564017	1.474920	0.016821	0.163652	0.040862	0.003129	0.001783	0.113909	0.000538	0.010931	0.006175	0.001734	0.017341
2-Dec-2029	0.124971	11.314300	17.688200	2.790470	39.742963	1.481640	0.016897	0.164396	0.041046	0.003143	0.001791	0.114417	0.000541	0.010980	0.006203	0.001742	0.017419
3-Dec-2029	0.124946	11.371000	17.777000	2.804380	39.941824	1.489090	0.016982	0.165222	0.041251	0.003158	0.001800	0.114981	0.000543	0.011035	0.006234	0.001751	0.017506
4-Dec-2029	0.124991	11.256200	17.598100	2.775920	39.537970	1.474150	0.016811	0.163561	0.040832	0.003126	0.001782	0.113798	0.000538	0.010923	0.006172	0.001733	0.017330
5-Dec-2029	0.124994	11.314000	17.688700	2.790120	39.740772	1.481760	0.016898	0.164403	0.041041	0.003142	0.001791	0.114374	0.000541	0.010979	0.006203	0.001742	0.017419
6-Dec-2029	0.125016	11.378000	17.788800	2.805900	39.965562	1.490150	0.016993	0.165334	0.041273	0.003160	0.001801	0.115020	0.000544	0.011041	0.006238	0.001752	0.017518
7-Dec-2029	0.125028	11.461500	17.919200	2.826560	40.259140	1.501050	0.017118	0.166545	0.041577	0.003183	0.001814	0.115873	0.000548	0.011122	0.006284	0.001765	0.017646
8-Dec-2029	0.124973	11.536500	18.036300	2.845020	40.522433	1.510870	0.017230	0.167634	0.041848	0.003204	0.001826	0.116629	0.000551	0.011195	0.006325	0.001776	0.017761
9-Dec-2029	0.124982	11.607000	18.146600	2.862410	40.770083	1.520110	0.017335	0.168659	0.042104	0.003224	0.001837	0.117341	0.000555	0.011263	0.006364	0.001787	0.017870
10-Dec-2029	0.125017	11.680000	18.260600	2.880500	41.026859	1.529630	0.017444	0.169717	0.042370	0.003244	0.001849	0.118090	0.000558	0.011335	0.006404	0.001798	0.017982
11-Dec-2029	0.124987	11.740600	18.354600	2.895660	41.240606	1.537450	0.017534	0.170589	0.042592	0.003261	0.001859	0.118731	0.000561	0.011394	0.006437	0.001808	0.018075
12-Dec-2029	0.124984	11.772700	18.403800	2.903820	41.354363	1.541500	0.017581	0.171044	0.042712	0.003270	0.001864	0.119090	0.000562	0.011426	0.006455	0.001812	0.018125
13-Dec-2029	0.125025	11.820300	18.477500	2.915820	41.522636	1.547610	0.017651	0.171726	0.042888	0.003284	0.001872	0.119605	0.000565	0.011473	0.006481	0.001820	0.018198
14-Dec-2029	0.125014	11.867200	18.550500	2.927490	41.687802	1.553690	0.017720	0.172403	0.043059	0.003297	0.001880	0.120093	0.000567	0.011518	0.006506	0.001827	0.018270
15-Dec-2029	0.125033	11.909600	18.616700	2.937950	41.836749	1.559230	0.017784	0.173018	0.043213	0.003309	0.001886	0.120523	0.000569	0.011559	0.006529	0.001833	0.018335
16-Dec-2029	0.125071	11.964500	18.702700	2.951500	42.029634	1.566440	0.017866	0.173817	0.043412	0.003324	0.001895	0.121078	0.000571	0.011613	0.006560	0.001842	0.018420
17-Dec-2029	0.125046	12.005500	18.767200	2.961470	42.173067	1.571880	0.017927	0.174418	0.043559	0.003335	0.001901	0.121473	0.000573	0.011652	0.006582	0.001848	0.018483
18-Dec-2029	0.125017	12.033000	18.811100	2.967990	42.268584	1.575630	0.017970	0.174828	0.043655	0.003343	0.001905	0.121716	0.000575	0.011678	0.006597	0.001853	0.018525
19-Dec-2029	0.125030	12.065600	18.863200	2.975630	42.381448	1.580110	0.018020	0.175317	0.043767	0.003351	0.001910	0.121992	0.000576	0.011709	0.006615	0.001858	0.018576
20-Dec-2029	0.125023	12.079000	18.886800	2.978140	42.425244	1.582290	0.018042	0.175544	0.043806	0.003354	0.001911	0.122021	0.000577	0.011720	0.006623	0.001860	0.018597
21-Dec-2029	0.125035	12.103800	18.927900	2.983590	42.509612	1.585920	0.018082	0.175933	0.043887	0.003360	0.001914	0.122181	0.000578	0.011742	0.006637	0.001864	0.018636

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
22-Dec-2029	0.125042	12.112000	18.942200	2.985140	42.536471	1.587250	0.018096	0.176071	0.043910	0.003362	0.001915	0.122200	0.000579	0.011748	0.006642	0.001865	0.018649
23-Dec-2029	0.125031	12.134000	18.977400	2.990330	42.612777	1.590270	0.018130	0.176401	0.043987	0.003368	0.001918	0.122390	0.000580	0.011769	0.006654	0.001868	0.018683
24-Dec-2029	0.125063	12.172900	19.038400	2.999880	42.749237	1.595390	0.018188	0.176968	0.044127	0.003378	0.001924	0.122778	0.000582	0.011807	0.006675	0.001874	0.018743
25-Dec-2029	0.125070	12.201900	19.083800	3.006970	42.850847	1.599210	0.018231	0.177391	0.044231	0.003386	0.001928	0.123063	0.000583	0.011835	0.006691	0.001879	0.018788
26-Dec-2029	0.125061	12.232800	19.132300	3.014570	42.959301	1.603280	0.018278	0.177842	0.044343	0.003395	0.001933	0.123372	0.000585	0.011865	0.006708	0.001884	0.018835
27-Dec-2029	0.125074	12.250800	19.160400	3.018980	43.022407	1.605640	0.018304	0.178103	0.044408	0.003400	0.001936	0.123552	0.000586	0.011882	0.006718	0.001886	0.018863
28-Dec-2029	0.125075	12.278700	19.204000	3.025890	43.120529	1.609280	0.018346	0.178508	0.044509	0.003408	0.001941	0.123837	0.000587	0.011909	0.006733	0.001891	0.018906
29-Dec-2029	0.125073	12.317500	19.265000	3.035470	43.256863	1.614420	0.018404	0.179076	0.044650	0.003418	0.001947	0.124232	0.000589	0.011947	0.006755	0.001897	0.018966
30-Dec-2029	0.125088	12.372600	19.351000	3.049060	43.450411	1.621620	0.018487	0.179875	0.044850	0.003434	0.001956	0.124793	0.000591	0.012000	0.006785	0.001905	0.019051
31-Dec-2029	0.125085	12.422100	19.428400	3.061170	43.623882	1.628100	0.018560	0.180594	0.045028	0.003447	0.001963	0.125282	0.000594	0.012048	0.006812	0.001913	0.019127
1-Jan-2030	0.125087	12.470200	19.503700	3.073050	43.792909	1.634400	0.018632	0.181293	0.045203	0.003461	0.001971	0.125775	0.000596	0.012095	0.006838	0.001920	0.019201
2-Jan-2030	0.125102	12.522800	19.585700	3.086040	43.977744	1.641270	0.018711	0.182056	0.045394	0.003475	0.001979	0.126310	0.000599	0.012146	0.006867	0.001928	0.019282
3-Jan-2030	0.125103	12.563300	19.649100	3.096020	44.119970	1.646580	0.018771	0.182645	0.045541	0.003487	0.001986	0.126707	0.000601	0.012185	0.006889	0.001934	0.019344
4-Jan-2030	0.125095	12.594000	19.697300	3.103570	44.227719	1.650630	0.018817	0.183093	0.045652	0.003495	0.001990	0.127013	0.000602	0.012215	0.006906	0.001939	0.019392
5-Jan-2030	0.125103	12.642500	19.773200	3.115520	44.398034	1.656990	0.018890	0.183798	0.045828	0.003509	0.001998	0.127502	0.000604	0.012262	0.006933	0.001947	0.019466
6-Jan-2030	0.125097	12.690000	19.847500	3.127170	44.564616	1.663230	0.018961	0.184490	0.045999	0.003522	0.002006	0.127975	0.000607	0.012308	0.006959	0.001954	0.019539
7-Jan-2030	0.125096	12.729500	19.909600	3.136850	44.703110	1.668450	0.019020	0.185068	0.046141	0.003533	0.002012	0.128365	0.000609	0.012346	0.006981	0.001960	0.019600
8-Jan-2030	0.125116	12.778500	19.986400	3.148880	44.875002	1.674900	0.019094	0.185782	0.046318	0.003546	0.002019	0.128852	0.000611	0.012393	0.007008	0.001968	0.019676
9-Jan-2030	0.125122	12.824100	20.058000	3.160020	45.034740	1.680920	0.019162	0.186448	0.046482	0.003559	0.002026	0.129300	0.000613	0.012437	0.007033	0.001975	0.019746
10-Jan-2030	0.125119	12.868300	20.127400	3.170820	45.189582	1.686770	0.019228	0.187095	0.046641	0.003571	0.002033	0.129733	0.000615	0.012480	0.007057	0.001981	0.019814
11-Jan-2030	0.125130	12.920900	20.209900	3.183680	45.373882	1.693710	0.019307	0.187862	0.046831	0.003585	0.002042	0.130251	0.000618	0.012531	0.007086	0.001990	0.019895
12-Jan-2030	0.125133	12.973600	20.292700	3.196580	45.558596	1.700670	0.019386	0.188633	0.047020	0.003600	0.002050	0.130770	0.000620	0.012582	0.007115	0.001998	0.019977
13-Jan-2030	0.125126	13.023900	20.371700	3.208860	45.734764	1.707330	0.019462	0.189369	0.047201	0.003614	0.002058	0.131261	0.000623	0.012630	0.007142	0.002005	0.020054
14-Jan-2030	0.125138	13.077500	20.456000	3.221970	45.922590	1.714420	0.019543	0.190154	0.047394	0.003628	0.002066	0.131787	0.000625	0.012682	0.007172	0.002014	0.020137
15-Jan-2030	0.125139	13.133400	20.543800	3.235620	46.118383	1.721810	0.019626	0.190971	0.047595	0.003644	0.002075	0.132335	0.000628	0.012736	0.007203	0.002022	0.020223
16-Jan-2030	0.125133	13.186600	20.627500	3.248580	46.304593	1.728870	0.019707	0.191751	0.047786	0.003658	0.002083	0.132852	0.000630	0.012787	0.007232	0.002031	0.020305
17-Jan-2030	0.125137	13.238200	20.708800	3.261120	46.485078	1.735720	0.019784	0.192508	0.047971	0.003672	0.002091	0.133349	0.000633	0.012836	0.007260	0.002038	0.020385
18-Jan-2030	0.125135	13.292400	20.794000	3.274300	46.674690	1.742910	0.019866	0.193302	0.048165	0.003687	0.002099	0.133873	0.000636	0.012889	0.007290	0.002047	0.020468
19-Jan-2030	0.125122	13.346700	20.879400	3.287530	46.864758	1.750110	0.019947	0.194097	0.048360	0.003702	0.002107	0.134400	0.000638	0.012941	0.007320	0.002055	0.020552
20-Jan-2030	0.125125	13.399300	20.962300	3.300360	47.048935	1.757090	0.020027	0.194869	0.048549	0.003717	0.002116	0.134911	0.000641	0.012991	0.007349	0.002063	0.020633
21-Jan-2030	0.125129	13.451400	21.044100	3.313060	47.231327	1.763980	0.020105	0.195630	0.048736	0.003731	0.002124	0.135419	0.000643	0.013042	0.007377	0.002071	0.020713
22-Jan-2030	0.125124	13.497900	21.117300	3.324380	47.394053	1.770160	0.020175	0.196312	0.048902	0.003744	0.002131	0.135869	0.000645	0.013086	0.007403	0.002079	0.020785
23-Jan-2030	0.125125	13.548200	21.196400	3.336660	47.570221	1.776820	0.020250	0.197049	0.049083	0.003758	0.002139	0.136360	0.000648	0.013135	0.007431	0.002086	0.020863
24-Jan-2030	0.125126	13.607200	21.288900	3.351090	47.776967	1.784600	0.020339	0.197910	0.049296	0.003774	0.002148	0.136942	0.000651	0.013192	0.007463	0.002095	0.020954
25-Jan-2030	0.125130	13.670300	21.388000	3.366570	47.998274	1.792920	0.020434	0.198832	0.049523	0.003791	0.002158	0.137567	0.000654	0.013253	0.007498	0.002105	0.021051
26-Jan-2030	0.125132	13.736500	21.491700	3.382780	48.230329	1.801640	0.020533	0.199797	0.049762	0.003809	0.002168	0.138222	0.000657	0.013317	0.007534	0.002115	0.021153
27-Jan-2030	0.125133	13.805900	21.600600	3.399790	48.473668	1.810790	0.020637	0.200809	0.050012	0.003829	0.002179	0.138910	0.000660	0.013384	0.007572	0.002126	0.021260
28-Jan-2030	0.125133	13.878700	21.714700	3.417650	48.728997	1.820370	0.020746	0.201871	0.050275	0.003849	0.002190	0.139633	0.000664	0.013454	0.007612	0.002137	0.021372
29-Jan-2030	0.125139	13.954300	21.833200	3.436200	48.994159	1.830330	0.020859	0.202974	0.050548	0.003870	0.002202	0.140384	0.000667	0.013527	0.007654	0.002149	0.021488
30-Jan-2030	0.125141	14.032700	21.956100	3.455430	49.269113	1.840650	0.020977	0.204117	0.050831	0.003891	0.002214	0.141164	0.000671	0.013603	0.007697	0.002161	0.021609
31-Jan-2030	0.125140	14.113200	22.082300	3.475200	49.551534	1.851250	0.021097	0.205291	0.051122	0.003913	0.002227	0.141965	0.000675	0.013681	0.007741	0.002173	0.021733
1-Feb-2030	0.125138	14.195500	22.211300	3.495390	49.840180	1.862080	0.021220	0.206491	0.051419	0.003936	0.002240	0.142784	0.000679	0.013761	0.007786	0.002186	0.021860
2-Feb-2030	0.125136	14.279800	22.343400	3.516080	50.135878	1.873170	0.021347	0.207719	0.051724	0.003959	0.002253	0.143623	0.000683	0.013842	0.007832	0.002199	0.021990
3-Feb-2030	0.125134	14.365700	22.478000	3.537170	50.437219	1.884470	0.021475	0.208972	0.052034	0.003983	0.002267	0.144478	0.000687	0.013925	0.007879	0.002212	0.022122
4-Feb-2030	0.125134	14.453400	22.615500	3.558710	50.744908	1.896020	0.021607	0.210250	0.052351	0.004007	0.002280	0.145352	0.000691	0.014010	0.007927	0.002226	0.022257
5-Feb-2030	0.125134	14.542800	22.755600	3.580680	51.058612	1.907780	0.021741	0.211554	0.052674	0.004032	0.002294	0.146244	0.000696	0.014097	0.007977	0.002240	0.022395
6-Feb-2030	0.125133	14.634300	22.898800	3.603190	51.379784	1.919800	0.021877	0.212885	0.053005	0.004058	0.002309	0.147163	0.000700	0.014185	0.008027	0.002254	0.022536
7-Feb-2030	0.125131	14.733600	23.054200	3.627580	51.728174	1.932830	0.022026	0.214330	0.053364	0.004085	0.002324	0.148155	0.000705	0.014281	0.008081	0.002269	0.022689
8-Feb-2030	0.125131	14.830800	23.206500	3.651460	52.069220	1.945610	0.022171	0.215746	0.053715	0.004112	0.002340	0.149125	0.000709	0.014375	0.008135	0.002284	0.022839
9-Feb-2030	0.125129	14.927000	23.357400	3.675060	52.406616	1.958290	0.022316	0.217150	0.054063	0.004138	0.002355	0.150080	0.000714	0.014468	0.008187	0.002299	0.022987
10-Feb-2030	0.125129	15.024400	23.509900	3.699010	52.748450	1.971090	0.022461	0.218569	0.054415	0.004165	0.002370	0.151055	0.000719	0.014563	0.008241	0.002314	0.023137
11-Feb-2030	0.125128	15.131900	23.678300	3.725440	53.125716	1.985220	0.022622	0.220135	0.054804	0.004195	0.002387	0.152130	0.000724	0.014667	0.008300	0.002330	0.023303
12-Feb-2030	0.125128	15.241300	23.849500	3.752320	53.509580	1.999580	0.022786	0.221727	0.055200	0.004225	0.002404	0.153225	0.000729	0.014773	0.008360	0.002347	0.023471

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
13-Feb-2030	0.125126	15.367400	24.047200	3.783320	53.952110	2.016170	0.022975	0.223565	0.055656	0.004260	0.002424	0.154485	0.000735	0.014895	0.008429	0.002367	0.023665
14-Feb-2030	0.125125	15.495600	24.247800	3.814810	54.401901	2.033000	0.023166	0.225431	0.056119	0.004296	0.002444	0.155766	0.000741	0.015019	0.008499	0.002386	0.023863
15-Feb-2030	0.125125	15.636900	24.469100	3.849560	54.897827	2.051570	0.023378	0.227488	0.056630	0.004335	0.002466	0.157180	0.000748	0.015156	0.008577	0.002408	0.024080
16-Feb-2030	0.125125	15.777100	24.688600	3.884040	55.389895	2.069980	0.023588	0.229529	0.057138	0.004374	0.002488	0.158585	0.000755	0.015292	0.008654	0.002430	0.024296
17-Feb-2030	0.125124	15.912400	24.900500	3.917340	55.864869	2.087750	0.023790	0.231500	0.057627	0.004411	0.002510	0.159942	0.000761	0.015423	0.008728	0.002450	0.024505
18-Feb-2030	0.125123	16.049500	25.115100	3.951070	56.346108	2.105750	0.023995	0.233495	0.058124	0.004449	0.002531	0.161317	0.000768	0.015555	0.008803	0.002472	0.024716
19-Feb-2030	0.125122	16.201500	25.353000	3.988460	56.879624	2.125710	0.024222	0.235707	0.058674	0.004491	0.002555	0.162842	0.000775	0.015703	0.008887	0.002495	0.024950
20-Feb-2030	0.125121	16.373200	25.621800	4.030670	57.482179	2.148260	0.024479	0.238207	0.059295	0.004539	0.002582	0.164560	0.000783	0.015869	0.008981	0.002521	0.025214
21-Feb-2030	0.125121	16.539000	25.881400	4.071440	58.064073	2.170040	0.024727	0.240621	0.059895	0.004585	0.002608	0.166220	0.000791	0.016030	0.009072	0.002547	0.025470
22-Feb-2030	0.125123	16.705100	26.141400	4.112290	58.647045	2.191850	0.024976	0.243038	0.060496	0.004631	0.002634	0.167885	0.000799	0.016190	0.009163	0.002573	0.025726
23-Feb-2030	0.125122	16.874100	26.406000	4.153890	59.240347	2.214040	0.025228	0.245499	0.061108	0.004678	0.002661	0.169582	0.000807	0.016354	0.009256	0.002599	0.025986
24-Feb-2030	0.125122	17.038000	26.662500	4.194220	59.815684	2.235550	0.025474	0.247884	0.061701	0.004723	0.002687	0.171227	0.000815	0.016513	0.009346	0.002624	0.026238
25-Feb-2030	0.125121	17.214100	26.938200	4.237560	60.433880	2.258670	0.025737	0.250447	0.062338	0.004772	0.002715	0.172994	0.000824	0.016684	0.009442	0.002651	0.026510
26-Feb-2030	0.125121	17.402600	27.233100	4.283920	61.095475	2.283400	0.026019	0.253189	0.063021	0.004824	0.002744	0.174886	0.000833	0.016866	0.009546	0.002680	0.026800
27-Feb-2030	0.125122	17.601400	27.544300	4.332850	61.793372	2.309500	0.026316	0.256082	0.063740	0.004879	0.002776	0.176881	0.000842	0.017059	0.009655	0.002711	0.027106
28-Feb-2030	0.125122	17.824600	27.893700	4.387790	62.576945	2.338800	0.026650	0.259331	0.064549	0.004941	0.002811	0.179123	0.000853	0.017275	0.009777	0.002745	0.027450
1-Mar-2030	0.125122	18.064900	28.269800	4.446930	63.420513	2.370330	0.027009	0.262827	0.065419	0.005008	0.002849	0.181536	0.000864	0.017508	0.009909	0.002782	0.027820
2-Mar-2030	0.125122	18.322500	28.673000	4.510340	64.324863	2.404140	0.027394	0.266576	0.066352	0.005079	0.002889	0.184124	0.000877	0.017758	0.010050	0.002822	0.028217
3-Mar-2030	0.125122	18.586300	29.085800	4.575270	65.250953	2.438760	0.027789	0.270414	0.067307	0.005152	0.002931	0.186774	0.000889	0.018013	0.010195	0.002862	0.028623
4-Mar-2030	0.125122	18.860300	29.514600	4.642710	66.212849	2.474710	0.028198	0.274401	0.068299	0.005228	0.002974	0.189526	0.000902	0.018279	0.010345	0.002904	0.029045
5-Mar-2030	0.125121	19.146700	29.962800	4.713200	67.218268	2.512290	0.028627	0.278567	0.069336	0.005307	0.003019	0.192404	0.000916	0.018556	0.010502	0.002949	0.029486
6-Mar-2030	0.125121	19.447000	30.432800	4.787130	68.272560	2.551700	0.029076	0.282937	0.070423	0.005391	0.003067	0.195421	0.000930	0.018847	0.010667	0.002995	0.029948
7-Mar-2030	0.125121	19.773300	30.943300	4.867450	69.418089	2.594510	0.029563	0.287684	0.071605	0.005481	0.003118	0.198700	0.000946	0.019164	0.010846	0.003045	0.030451
8-Mar-2030	0.125118	17.651500	27.621900	4.345450	61.970359	2.315940	0.026390	0.256801	0.063925	0.004893	0.002784	0.177420	0.000844	0.017108	0.009682	0.002718	0.027183
9-Mar-2030	0.125118	17.757400	27.787800	4.371510	62.342106	2.329840	0.026549	0.258343	0.064309	0.004923	0.002801	0.178483	0.000849	0.017211	0.009740	0.002735	0.027346
10-Mar-2030	0.125118	17.858300	27.945600	4.396320	62.696221	2.343080	0.026699	0.259810	0.064674	0.004951	0.002816	0.179494	0.000854	0.017308	0.009795	0.002750	0.027501
11-Mar-2030	0.125118	17.956000	28.098600	4.420380	63.039257	2.355910	0.026845	0.261233	0.065028	0.004978	0.002832	0.180475	0.000859	0.017403	0.009849	0.002765	0.027652
12-Mar-2030	0.125118	18.057400	28.257300	4.445320	63.395156	2.369220	0.026997	0.262708	0.065395	0.005006	0.002848	0.181493	0.000864	0.017501	0.009905	0.002781	0.027808
13-Mar-2030	0.125118	18.166600	28.428200	4.472190	63.778479	2.383550	0.027160	0.264297	0.065790	0.005036	0.002865	0.182589	0.000869	0.017607	0.009965	0.002798	0.027976
14-Mar-2030	0.125117	18.281800	28.608500	4.500550	64.182920	2.398670	0.027333	0.265974	0.066207	0.005068	0.002883	0.183745	0.000875	0.017719	0.010028	0.002815	0.028154
15-Mar-2030	0.125117	18.398400	28.791000	4.529240	64.592215	2.413980	0.027507	0.267671	0.066629	0.005100	0.002902	0.184916	0.000880	0.017832	0.010092	0.002833	0.028333
16-Mar-2030	0.125118	18.541000	29.014200	4.564340	65.092829	2.432700	0.027720	0.269746	0.067146	0.005140	0.002924	0.186348	0.000887	0.017970	0.010170	0.002855	0.028553
17-Mar-2030	0.125118	18.689500	29.246500	4.600870	65.614064	2.452170	0.027942	0.271906	0.067683	0.005181	0.002947	0.187839	0.000894	0.018114	0.010251	0.002878	0.028781
18-Mar-2030	0.125118	18.843100	29.486900	4.638680	66.153305	2.472330	0.028172	0.274141	0.068239	0.005224	0.002972	0.189382	0.000901	0.018263	0.010336	0.002902	0.029018
19-Mar-2030	0.125117	19.005200	29.740700	4.678590	66.722418	2.493610	0.028414	0.276500	0.068826	0.005269	0.002997	0.191011	0.000909	0.018420	0.010425	0.002927	0.029268
20-Mar-2030	0.125117	19.175200	30.006700	4.720440	67.319246	2.515920	0.028669	0.278974	0.069442	0.005316	0.003024	0.192719	0.000917	0.018585	0.010518	0.002953	0.029530
21-Mar-2030	0.125117	19.354700	30.287600	4.764620	67.949391	2.539470	0.028937	0.281585	0.070092	0.005365	0.003052	0.194522	0.000926	0.018759	0.010616	0.002981	0.029806
22-Mar-2030	0.125117	19.544500	30.584700	4.811340	68.615715	2.564380	0.029221	0.284347	0.070779	0.005418	0.003082	0.196429	0.000935	0.018943	0.010720	0.003010	0.030098
23-Mar-2030	0.125117	19.746000	30.899900	4.860920	69.323031	2.590810	0.029522	0.287278	0.071509	0.005474	0.003114	0.198453	0.000945	0.019138	0.010831	0.003041	0.030408
24-Mar-2030	0.125117	19.957100	31.230400	4.912900	70.064201	2.618520	0.029838	0.290350	0.072273	0.005532	0.003147	0.200575	0.000955	0.019342	0.010947	0.003073	0.030734
25-Mar-2030	0.125117	20.179500	31.578300	4.967630	70.844912	2.647700	0.030170	0.293585	0.073078	0.005594	0.003182	0.202809	0.000965	0.019558	0.011069	0.003108	0.031076
26-Mar-2030	0.125117	20.410900	31.940400	5.024590	71.657279	2.678060	0.030516	0.296952	0.073916	0.005658	0.003219	0.205134	0.000976	0.019782	0.011196	0.003143	0.031432
27-Mar-2030	0.125117	20.651400	32.316800	5.083800	72.501634	2.709620	0.030876	0.300451	0.074787	0.005725	0.003257	0.207551	0.000988	0.020015	0.011328	0.003180	0.031803
28-Mar-2030	0.125117	20.901200	32.707700	5.145280	73.378559	2.742390	0.031249	0.304085	0.075692	0.005794	0.003296	0.210061	0.001000	0.020257	0.011465	0.003219	0.032187
29-Mar-2030	0.125117	21.160200	33.113100	5.209060	74.287928	2.776380	0.031636	0.307854	0.076630	0.005866	0.003337	0.212664	0.001012	0.020508	0.011607	0.003259	0.032586
30-Mar-2030	0.125117	21.428400	33.532700	5.275060	75.229412	2.811570	0.032037	0.311755	0.077601	0.005940	0.003379	0.215359	0.001025	0.020768	0.011754	0.003300	0.032999
31-Mar-2030	0.125117	21.705600	33.966600	5.343310	76.202634	2.847940	0.032452	0.315789	0.078605	0.006017	0.003423	0.218145	0.001038	0.021037	0.011906	0.003343	0.033426
1-Apr-2030	0.125117	21.991800	34.414400	5.413760	77.207388	2.885490	0.032880	0.319953	0.079641	0.006096	0.003468	0.221021	0.001052	0.021314	0.012063	0.003387	0.033867
2-Apr-2030	0.125117	22.277200	34.861000	5.484010	78.209322	2.922940	0.033306	0.324105	0.080675	0.006175	0.003513	0.223889	0.001066	0.021591	0.012219	0.003431	0.034306
3-Apr-2030	0.125117	22.532700	35.260800	5.546910	79.106327	2.956460	0.033688	0.327822	0.081600	0.006246	0.003554	0.226457	0.001078	0.021839	0.012359	0.003470	0.034700
4-Apr-2030	0.125117	22.747600	35.597100	5.599810	79.860775	2.984660	0.034010	0.330949	0.082378	0.006306	0.003587	0.228616	0.001088	0.022047	0.012477	0.003503	0.035031
5-Apr-2030	0.125117	22.925200	35.875100	5.643530	80.484281	3.007960	0.034275	0.333532	0.083021	0.006355	0.003615	0.230401	0.001097	0.022219	0.012575	0.003530	0.035304
6-Apr-2030	0.125117	23.071700	36.104400	5.679600	80.998628	3.027190	0.034494	0.335664	0.083552	0.006396	0.003639	0.231874	0.001104	0.022361	0.012655	0.003553	0.035530

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
7-Apr-2030	0.125117	23.193000	36.294100	5.709450	81.424436	3.043100	0.034676	0.337428	0.083991	0.006429	0.003658	0.233092	0.001110	0.022478	0.012722	0.003572	0.035717
8-Apr-2030	0.125117	23.293700	36.451800	5.734250	81.778010	3.056320	0.034826	0.338894	0.084356	0.006457	0.003674	0.234105	0.001114	0.022576	0.012777	0.003587	0.035872
9-Apr-2030	0.125117	23.377800	36.583300	5.754940	82.073210	3.067340	0.034952	0.340117	0.084660	0.006481	0.003687	0.234949	0.001118	0.022658	0.012823	0.003600	0.036001
10-Apr-2030	0.125117	23.448100	36.693400	5.772260	82.320072	3.076580	0.035057	0.341140	0.084915	0.006500	0.003698	0.235657	0.001122	0.022726	0.012862	0.003611	0.036110
11-Apr-2030	0.125117	23.507200	36.785900	5.786810	82.527562	3.084330	0.035145	0.342001	0.085129	0.006516	0.003707	0.236251	0.001125	0.022783	0.012894	0.003620	0.036201
12-Apr-2030	0.125117	23.557200	36.864100	5.799120	82.703105	3.090890	0.035220	0.342728	0.085310	0.006530	0.003715	0.236753	0.001127	0.022831	0.012921	0.003628	0.036278
13-Apr-2030	0.125117	23.599500	36.930300	5.809520	82.851555	3.096440	0.035283	0.343343	0.085463	0.006542	0.003722	0.237178	0.001129	0.022872	0.012945	0.003634	0.036343
14-Apr-2030	0.125117	23.636300	36.987900	5.818600	82.980836	3.101270	0.035338	0.343879	0.085597	0.006552	0.003728	0.237548	0.001131	0.022908	0.012965	0.003640	0.036400
15-Apr-2030	0.125117	23.665500	37.033500	5.825770	83.083274	3.105100	0.035382	0.344303	0.085702	0.006560	0.003732	0.237841	0.001132	0.022936	0.012981	0.003644	0.036444
16-Apr-2030	0.125117	23.690400	37.072600	5.831920	83.170775	3.108370	0.035419	0.344666	0.085793	0.006567	0.003736	0.238092	0.001133	0.022961	0.012995	0.003648	0.036483
17-Apr-2030	0.125117	23.711900	37.106200	5.837190	83.246163	3.111180	0.035451	0.344978	0.085871	0.006573	0.003739	0.238308	0.001134	0.022981	0.013006	0.003652	0.036516
18-Apr-2030	0.125117	23.730300	37.135000	5.841730	83.310803	3.113600	0.035479	0.345246	0.085937	0.006578	0.003742	0.238493	0.001135	0.022999	0.013016	0.003654	0.036544
19-Apr-2030	0.125117	23.746100	37.159700	5.845620	83.366275	3.115680	0.035503	0.345476	0.085995	0.006583	0.003745	0.238652	0.001136	0.023015	0.013025	0.003657	0.036569
20-Apr-2030	0.125117	23.760000	37.181400	5.849040	83.415067	3.117500	0.035523	0.345678	0.086045	0.006587	0.003747	0.238791	0.001137	0.023028	0.013033	0.003659	0.036590
21-Apr-2030	0.125117	23.772300	37.200700	5.852070	83.458257	3.119110	0.035542	0.345857	0.086089	0.006590	0.003749	0.238915	0.001137	0.023040	0.013039	0.003661	0.036609
22-Apr-2030	0.125117	23.783200	37.217800	5.854760	83.496552	3.120550	0.035558	0.346016	0.086129	0.006593	0.003751	0.239025	0.001138	0.023051	0.013045	0.003663	0.036626
23-Apr-2030	0.125117	23.793000	37.233100	5.857170	83.530947	3.121830	0.035573	0.346158	0.086164	0.006596	0.003752	0.239123	0.001138	0.023060	0.013051	0.003664	0.036641
24-Apr-2030	0.125117	23.801900	37.247100	5.859360	83.562189	3.123000	0.035586	0.346288	0.086197	0.006598	0.003754	0.239213	0.001139	0.023069	0.013056	0.003665	0.036655
25-Apr-2030	0.125117	23.810100	37.259900	5.861380	83.590983	3.124080	0.035598	0.346407	0.086226	0.006600	0.003755	0.239295	0.001139	0.023077	0.013060	0.003667	0.036667
26-Apr-2030	0.125117	23.817700	37.271700	5.863240	83.617619	3.125060	0.035610	0.346517	0.086254	0.006603	0.003756	0.239371	0.001139	0.023084	0.013064	0.003668	0.036679
27-Apr-2030	0.125117	23.824700	37.282600	5.864960	83.642181	3.125980	0.035620	0.346618	0.086279	0.006604	0.003757	0.239441	0.001140	0.023091	0.013068	0.003669	0.036690
28-Apr-2030	0.125117	23.831200	37.292900	5.866570	83.665042	3.126840	0.035630	0.346714	0.086303	0.006606	0.003758	0.239507	0.001140	0.023097	0.013072	0.003670	0.036700
29-Apr-2030	0.125117	23.837400	37.302500	5.868090	83.686782	3.127650	0.035639	0.346803	0.086325	0.006608	0.003759	0.239569	0.001140	0.023103	0.013075	0.003671	0.036709
30-Apr-2030	0.125129	23.843300	37.311700	5.869540	83.707486	3.128420	0.035648	0.346889	0.086346	0.006610	0.003760	0.239628	0.001141	0.023109	0.013078	0.003672	0.036718
1-May-2030	0.125265	23.849000	37.320600	5.870940	83.727484	3.129170	0.035656	0.346972	0.086367	0.006611	0.003761	0.239686	0.001141	0.023114	0.013081	0.003673	0.036727
2-May-2030	0.126026	23.852500	37.326200	5.871820	83.739847	3.129630	0.035662	0.347024	0.086380	0.006612	0.003762	0.239722	0.001141	0.023118	0.013083	0.003673	0.036732
3-May-2030	0.128914	23.829600	37.290300	5.866180	83.659440	3.126630	0.035627	0.346690	0.086297	0.006606	0.003758	0.239491	0.001140	0.023096	0.013071	0.003670	0.036697
4-May-2030	0.131887	23.732300	37.138000	5.842220	83.317815	3.113860	0.035482	0.345274	0.085944	0.006579	0.003743	0.238514	0.001135	0.023001	0.013017	0.003655	0.036547
5-May-2030	0.134932	23.516800	36.800800	5.789180	82.561293	3.085580	0.035160	0.342139	0.085164	0.006519	0.003709	0.236349	0.001125	0.022792	0.012899	0.003622	0.036215
6-May-2030	0.138375	23.365400	36.563900	5.751930	82.029852	3.065710	0.034933	0.339936	0.084616	0.006477	0.003685	0.234830	0.001118	0.022646	0.012816	0.003598	0.035982
7-May-2030	0.141277	23.015900	36.016900	5.665880	80.802796	3.019840	0.034411	0.334850	0.083350	0.006380	0.003630	0.231317	0.001101	0.022307	0.012624	0.003544	0.035444
8-May-2030	0.144719	22.605600	35.374800	5.564870	79.362318	2.966010	0.033797	0.328881	0.081864	0.006267	0.003565	0.227193	0.001081	0.021909	0.012399	0.003481	0.034812
9-May-2030	0.148274	22.160400	34.678200	5.455280	77.799362	2.907610	0.033132	0.322405	0.080252	0.006143	0.003495	0.222717	0.001060	0.021478	0.012155	0.003413	0.034127
10-May-2030	0.154482	21.730800	34.006000	5.349520	76.291131	2.851250	0.032489	0.316155	0.078696	0.006024	0.003427	0.218399	0.001040	0.021061	0.011920	0.003347	0.033465
11-May-2030	0.159179	21.303800	33.337800	5.244380	74.791945	2.795220	0.031851	0.309943	0.077150	0.005906	0.003360	0.214105	0.001019	0.020647	0.011685	0.003281	0.032807
12-May-2030	0.163736	20.896700	32.700700	5.144150	73.362670	2.741810	0.031242	0.304020	0.075675	0.005793	0.003295	0.210012	0.001000	0.020253	0.011462	0.003218	0.032181
13-May-2030	0.167317	20.370700	31.877700	5.014660	71.516008	2.672810	0.030456	0.296369	0.073770	0.005647	0.003213	0.204724	0.000975	0.019743	0.011174	0.003137	0.031371
14-May-2030	0.171112	19.610500	30.688300	4.827480	68.846981	2.573100	0.029320	0.285311	0.071017	0.005436	0.003093	0.197078	0.000938	0.019006	0.010757	0.003020	0.030200
15-May-2030	0.174049	19.203500	30.051400	4.727270	67.418037	2.519700	0.028711	0.279390	0.069543	0.005323	0.003028	0.192986	0.000919	0.018612	0.010533	0.002957	0.029573
16-May-2030	0.180553	18.751900	29.344800	4.616090	65.832553	2.460460	0.028036	0.272821	0.067907	0.005198	0.002957	0.188445	0.000897	0.018174	0.010286	0.002888	0.028878
17-May-2030	0.199270	18.356600	28.726200	4.518750	64.444643	2.408600	0.027445	0.267070	0.066475	0.005089	0.002895	0.184470	0.000878	0.017791	0.010069	0.002827	0.028269
18-May-2030	0.202848	17.964400	28.112600	4.422190	63.067685	2.357150	0.026859	0.261366	0.065055	0.004980	0.002833	0.180526	0.000859	0.017411	0.009854	0.002767	0.027665
19-May-2030	0.204877	17.590300	27.527200	4.330090	61.754290	2.308080	0.026300	0.255924	0.063700	0.004876	0.002774	0.176764	0.000842	0.017048	0.009649	0.002709	0.027089
20-May-2030	0.211442	16.660100	26.071500	4.101100	58.488600	2.186020	0.024909	0.242390	0.060331	0.004618	0.002627	0.167415	0.000797	0.016146	0.009138	0.002566	0.025656
21-May-2030	0.215835	15.466800	24.204100	3.807370	54.299349	2.029440	0.023125	0.225028	0.056011	0.004287	0.002439	0.155426	0.000740	0.014990	0.008484	0.002382	0.023819
22-May-2030	0.219733	14.587800	22.829300	3.590700	51.212239	1.914220	0.021811	0.212245	0.052827	0.004043	0.002300	0.146548	0.000698	0.014138	0.008002	0.002247	0.022465
23-May-2030	0.224471	14.309400	22.392600	3.522500	50.236227	1.877530	0.021393	0.208179	0.051831	0.003966	0.002257	0.143772	0.000685	0.013869	0.007849	0.002204	0.022035
24-May-2030	0.224046	14.042700	21.975100	3.456910	49.300177	1.842420	0.020994	0.204288	0.050867	0.003892	0.002215	0.141097	0.000672	0.013611	0.007703	0.002162	0.021625
25-May-2030	0.227680	13.790000	21.579500	3.394750	48.413211	1.809240	0.020616	0.200609	0.049954	0.003822	0.002175	0.138561	0.000660	0.013366	0.007564	0.002124	0.021235
26-May-2030	0.232873	13.527900	21.169200	3.330230	47.493053	1.774840	0.020224	0.196794	0.049005	0.003749	0.002134	0.135928	0.000647	0.013112	0.007420	0.002083	0.020832
27-May-2030	0.235023	13.321000	20.845300	3.279370	46.766983	1.747650	0.019914	0.193780	0.048258	0.003691	0.002101	0.133854	0.000637	0.012912	0.007307	0.002051	0.020513
28-May-2030	0.236823	13.162600	20.597000	3.240460	46.211226	1.726790	0.019676	0.191468	0.047688	0.003647	0.002076	0.132268	0.000630	0.012759	0.007220	0.002027	0.020269
29-May-2030	0.240122	13.023700	20.379400	3.206370	45.724011	1.708500	0.019468	0.189441	0.047188	0.003609	0.002055	0.130879	0.000623	0.012625	0.007143	0.002005	0.020054

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
30-May-2030	0.245448	13.056000	20.431600	3.213810	45.835302	1.713110	0.019520	0.189948	0.047285	0.003618	0.002059	0.131171	0.000625	0.012654	0.007161	0.002011	0.020106
31-May-2030	0.250147	14.165300	22.167900	3.486770	49.729273	1.858730	0.021179	0.206094	0.051299	0.003926	0.002234	0.142308	0.000678	0.013728	0.007770	0.002181	0.021814
1-Jun-2030	0.258256	12.836200	20.087400	3.159780	45.063965	1.684220	0.019191	0.186746	0.046492	0.003557	0.002024	0.128968	0.000614	0.012441	0.007041	0.001977	0.019767
2-Jun-2030	0.266582	12.515600	19.582100	3.081950	43.942923	1.641370	0.018704	0.182004	0.045372	0.003467	0.001976	0.125821	0.000599	0.012135	0.006864	0.001927	0.019270
3-Jun-2030	0.283944	12.238300	19.150700	3.012940	42.966322	1.605530	0.018295	0.178024	0.044341	0.003391	0.001931	0.122984	0.000585	0.011863	0.006713	0.001885	0.018845
4-Jun-2030	0.308922	12.023900	18.812800	2.960830	42.216376	1.576910	0.017970	0.174863	0.043591	0.003331	0.001898	0.120877	0.000575	0.011658	0.006595	0.001852	0.018516
5-Jun-2030	0.354110	11.731300	18.340600	2.893020	41.206512	1.535480	0.017508	0.170348	0.042711	0.003245	0.001860	0.118227	0.000560	0.011392	0.006432	0.001807	0.018073
6-Jun-2030	0.369218	11.460900	17.910200	2.832400	40.281691	1.499200	0.017096	0.166334	0.041986	0.003169	0.001829	0.115924	0.000547	0.011156	0.006281	0.001767	0.017666
7-Jun-2030	0.391573	11.230700	17.544500	2.779360	39.488462	1.467130	0.016738	0.162832	0.041413	0.003103	0.001805	0.113890	0.000536	0.010949	0.006155	0.001731	0.017306
8-Jun-2030	0.428372	11.060300	17.264000	2.735450	38.882152	1.441860	0.016459	0.160090	0.040818	0.003051	0.001780	0.112209	0.000527	0.010775	0.006060	0.001705	0.017045
9-Jun-2030	0.479862	10.815200	16.840600	2.686600	38.068973	1.401270	0.016023	0.155771	0.040291	0.002970	0.001756	0.110428	0.000513	0.010587	0.005919	0.001667	0.016674
10-Jun-2030	0.553325	10.648800	16.556900	2.652390	37.512596	1.374510	0.015733	0.152908	0.039910	0.002917	0.001739	0.109143	0.000504	0.010454	0.005824	0.001642	0.016419
11-Jun-2030	0.630537	10.429400	16.184800	2.606600	36.776191	1.339680	0.015355	0.149171	0.039458	0.002847	0.001720	0.107524	0.000492	0.010278	0.005699	0.001608	0.016082
12-Jun-2030	0.696168	10.227700	15.843300	2.564280	36.098272	1.307840	0.015009	0.145754	0.039205	0.002783	0.001702	0.106039	0.000481	0.010114	0.005585	0.001577	0.015773
13-Jun-2030	0.741349	10.056400	15.558600	2.526570	35.515246	1.282060	0.014727	0.142972	0.038967	0.002733	0.001683	0.104706	0.000472	0.009969	0.005489	0.001551	0.015511
14-Jun-2030	0.766350	9.821440	15.160000	2.477040	34.724586	1.245010	0.014326	0.139003	0.038830	0.002661	0.001664	0.103197	0.000459	0.009782	0.005356	0.001515	0.015153
15-Jun-2030	0.798155	9.677730	14.923700	2.444420	34.231413	1.224050	0.014096	0.136737	0.038797	0.002621	0.001646	0.101953	0.000451	0.009657	0.005276	0.001493	0.014935
16-Jun-2030	0.830797	9.556820	14.721400	2.417870	33.820168	1.205720	0.013897	0.134769	0.038796	0.002587	0.001634	0.101093	0.000445	0.009557	0.005208	0.001475	0.014751
17-Jun-2030	0.873330	9.401720	14.456400	2.385340	33.298925	1.181060	0.013632	0.132146	0.038704	0.002541	0.001620	0.100135	0.000436	0.009435	0.005120	0.001452	0.014516
18-Jun-2030	0.933667	9.269260	14.230200	2.357500	32.853527	1.160040	0.013406	0.129913	0.038507	0.002502	0.001609	0.099325	0.000429	0.009331	0.005046	0.001432	0.014315
19-Jun-2030	1.012100	9.138570	14.003800	2.330800	32.417244	1.138700	0.013179	0.127662	0.038328	0.002464	0.001599	0.098592	0.000422	0.009233	0.004972	0.001412	0.014118
20-Jun-2030	1.105923	9.020260	13.798100	2.306850	32.023198	1.119230	0.012972	0.125612	0.038216	0.002429	0.001590	0.097904	0.000415	0.009144	0.004904	0.001394	0.013939
21-Jun-2030	1.216617	8.871930	13.538500	2.277310	31.531172	1.094440	0.012710	0.123002	0.038130	0.002384	0.001580	0.097145	0.000407	0.009036	0.004820	0.001371	0.013714
22-Jun-2030	1.335750	8.738610	13.304100	2.250960	31.089762	1.071970	0.012473	0.120639	0.038032	0.002344	0.001570	0.096897	0.000399	0.008940	0.004744	0.001351	0.013512
23-Jun-2030	1.465378	8.603590	13.068200	2.223870	30.641061	1.049500	0.012235	0.118271	0.037837	0.002304	0.001562	0.097074	0.000391	0.008840	0.004667	0.001331	0.013307
24-Jun-2030	1.597459	8.471740	12.839900	2.197010	30.201222	1.027890	0.012004	0.115985	0.037771	0.002265	0.001551	0.097349	0.000384	0.008741	0.004592	0.001311	0.013107
25-Jun-2030	1.733721	8.356210	12.639300	2.173520	29.816012	1.008930	0.011804	0.113988	0.037746	0.002230	0.001542	0.097497	0.000377	0.008654	0.004526	0.001293	0.012933
26-Jun-2030	1.850165	8.246730	12.448500	2.151350	29.451344	0.990879	0.011613	0.112091	0.037670	0.002198	0.001534	0.097690	0.000371	0.008573	0.004464	0.001277	0.012768
27-Jun-2030	1.947596	8.124980	12.236400	2.126700	29.045826	0.970771	0.011400	0.109972	0.037606	0.002163	0.001524	0.097883	0.000364	0.008483	0.004395	0.001258	0.012584
28-Jun-2030	2.081408	8.034420	12.080700	2.107870	28.742155	0.956239	0.011246	0.108442	0.037507	0.002136	0.001517	0.098316	0.000359	0.008414	0.004344	0.001245	0.012448
29-Jun-2030	2.265851	7.951370	11.941500	2.089750	28.460161	0.943575	0.011109	0.107093	0.037569	0.002112	0.001513	0.098336	0.000355	0.008345	0.004297	0.001232	0.012324
30-Jun-2030	2.547261	7.786490	11.656200	2.055930	27.909185	0.916673	0.010822	0.104251	0.037599	0.002064	0.001509	0.096587	0.000346	0.008220	0.004204	0.001207	0.012073
1-Jul-2030	4.673971	6.553540	9.573710	1.788260	23.728244	0.726558	0.008784	0.084072	0.034291	0.001724	0.001417	0.089729	0.000279	0.007279	0.003513	0.001023	0.010233
2-Jul-2030	5.607573	6.608500	9.657280	1.797020	23.901553	0.733901	0.008858	0.084789	0.032864	0.001734	0.001381	0.085364	0.000282	0.007302	0.003548	0.001031	0.010313
3-Jul-2030	6.485603	6.462770	9.381910	1.772590	23.437062	0.706518	0.008585	0.082058	0.032858	0.001701	0.001375	0.086907	0.000273	0.007216	0.003463	0.001009	0.010087
4-Jul-2030	8.329071	6.427110	9.297630	1.766060	23.321129	0.698624	0.008522	0.081420	0.033201	0.001750	0.001383	0.089366	0.000270	0.007244	0.003446	0.001002	0.010024
5-Jul-2030	9.689986	6.556240	9.542720	1.785990	23.725638	0.723113	0.008759	0.083799	0.032896	0.001744	0.001380	0.087682	0.000278	0.007303	0.003523	0.001022	0.010223
6-Jul-2030	10.727572	6.601180	9.621910	1.793030	23.866844	0.731117	0.008841	0.084616	0.032795	0.001762	0.001378	0.086944	0.000281	0.007340	0.003550	0.001029	0.010289
7-Jul-2030	10.901357	6.628510	9.670940	1.797860	23.954977	0.735977	0.008890	0.085101	0.032805	0.001771	0.001380	0.087223	0.000282	0.007359	0.003566	0.001033	0.010328
8-Jul-2030	11.996384	6.745570	9.883260	1.815910	24.321606	0.757265	0.009103	0.087233	0.032977	0.001808	0.001385	0.089467	0.000289	0.007448	0.003637	0.001050	0.010505
9-Jul-2030	13.394121	6.881050	10.128600	1.837420	24.748477	0.781802	0.009349	0.089689	0.033151	0.001852	0.001385	0.087376	0.000298	0.007549	0.003719	0.001071	0.010708
10-Jul-2030	14.473396	6.808750	9.997160	1.826760	24.524046	0.768521	0.009216	0.088357	0.033031	0.001828	0.001383	0.087241	0.000293	0.007493	0.003675	0.001060	0.010599
11-Jul-2030	14.758904	6.805420	9.991530	1.826430	24.514372	0.767941	0.009210	0.088296	0.033010	0.001827	0.001383	0.087518	0.000293	0.007489	0.003672	0.001059	0.010593
12-Jul-2030	14.242586	6.930850	10.219700	1.845860	24.907584	0.790773	0.009438	0.090578	0.033190	0.001865	0.001386	0.087789	0.000301	0.007583	0.003748	0.001078	0.010783
13-Jul-2030	15.129016	7.230440	10.766900	1.892270	25.846777	0.845621	0.009985	0.096050	0.033585	0.001956	0.001393	0.087493	0.000319	0.007804	0.003929	0.001124	0.011236
14-Jul-2030	15.446358	7.031040	10.402900	1.863470	25.230276	0.808884	0.009618	0.092366	0.033215	0.001896	0.001389	0.088073	0.000307	0.007646	0.003806	0.001093	0.010931
15-Jul-2030	15.716417	7.036770	10.409000	1.865390	25.252491	0.809396	0.009626	0.092438	0.033214	0.001902	0.001391	0.088826	0.000307	0.007653	0.003810	0.001094	0.010936
16-Jul-2030	15.150864	7.127380	10.572700	1.879470	25.536725	0.825809	0.009791	0.094089	0.033345	0.001932	0.001392	0.088081	0.000312	0.007723	0.003865	0.001107	0.011072
17-Jul-2030	14.111016	7.166090	10.642900	1.885940	25.660028	0.832796	0.009861	0.094785	0.033375	0.001944	0.001393	0.087673	0.000315	0.007750	0.003888	0.001113	0.011130
18-Jul-2030	13.507107	7.210830	10.724400	1.893650	25.803493	0.840859	0.009941	0.095584	0.033401	0.001958	0.001395	0.089218	0.000317	0.007780	0.003914	0.001120	0.011196
19-Jul-2030	12.537925	7.260780	10.814300	1.901750	25.961574	0.849858	0.010032	0.096489	0.033455	0.001974	0.001396	0.088704	0.000321	0.007817	0.003944	0.001127	0.011270
20-Jul-2030	13.205822	7.315240	10.913400	1.910670	26.134293	0.859717	0.010130	0.097471	0.033509	0.001991	0.001397	0.091976	0.000324	0.007856	0.003976	0.001135	0.011352
21-Jul-2030	14.064167	7.441860	11.143800	1.930740	26.533112	0.882767	0.010360	0.099771	0.033659	0.002031	0.001400	0.090881	0.000332	0.007948	0.004052	0.001154	0.011542

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
22-Jul-2030	14.395429	7.607600	11.438500	1.957320	27.056421	0.912307	0.010660	0.102763	0.033902	0.002090	0.001405	0.089680	0.000341	0.008079	0.004153	0.001179	0.011787
23-Jul-2030	14.573524	7.494240	11.235200	1.940100	26.702449	0.891821	0.010453	0.100698	0.033708	0.002051	0.001402	0.089717	0.000335	0.007988	0.004083	0.001162	0.011617
24-Jul-2030	14.721842	7.506360	11.257500	1.942820	26.743914	0.893979	0.010475	0.100905	0.033673	0.002055	0.001403	0.089589	0.000335	0.007993	0.004090	0.001163	0.011634
25-Jul-2030	14.721455	7.620950	11.465700	1.960980	27.104828	0.914794	0.010683	0.102985	0.033818	0.002091	0.001406	0.090199	0.000342	0.008077	0.004159	0.001181	0.011806
26-Jul-2030	14.224496	7.651990	11.523100	1.966060	27.203254	0.920501	0.010739	0.103548	0.033839	0.002099	0.001406	0.090003	0.000344	0.008098	0.004177	0.001185	0.011853
27-Jul-2030	13.930586	7.725690	11.657600	1.977690	27.435175	0.933952	0.010873	0.104887	0.033924	0.002122	0.001408	0.090444	0.000349	0.008151	0.004221	0.001196	0.011964
28-Jul-2030	13.265268	7.810370	11.811400	1.991470	27.703367	0.949301	0.011027	0.106421	0.034010	0.002149	0.001410	0.090541	0.000354	0.008212	0.004272	0.001209	0.012090
29-Jul-2030	13.472457	7.901900	11.978500	2.005940	27.991505	0.966019	0.011193	0.108086	0.034114	0.002177	0.001412	0.090378	0.000359	0.008278	0.004327	0.001223	0.012228
30-Jul-2030	13.484561	7.887760	11.952200	2.004750	27.951297	0.963263	0.011166	0.107806	0.034053	0.002173	0.001412	0.090585	0.000359	0.008264	0.004317	0.001220	0.012205
31-Jul-2030	13.319866	7.964960	12.092600	2.016670	28.193152	0.977339	0.011307	0.109214	0.034165	0.002197	0.001414	0.090890	0.000363	0.008322	0.004364	0.001232	0.012321
1-Aug-2030	13.993353	8.186460	12.496000	2.050730	28.886497	1.017800	0.011711	0.113257	0.034477	0.002265	0.001419	0.091333	0.000377	0.008488	0.004498	0.001266	0.012656
2-Aug-2030	14.477112	8.321670	12.743500	2.072200	29.312530	1.042530	0.011957	0.115717	0.034632	0.002306	0.001422	0.090976	0.000385	0.008584	0.004580	0.001286	0.012860
3-Aug-2030	14.701389	8.120070	12.375700	2.043530	28.691071	1.005380	0.011584	0.111975	0.034235	0.002245	0.001418	0.090700	0.000373	0.008422	0.004455	0.001255	0.012549
4-Aug-2030	15.221926	8.171230	12.469300	2.051280	28.850732	1.014770	0.011678	0.112911	0.034306	0.002260	0.001419	0.090576	0.000376	0.008461	0.004486	0.001263	0.012628
5-Aug-2030	14.846130	8.239510	12.594300	2.062600	29.067843	1.027170	0.011800	0.114131	0.034368	0.002281	0.001421	0.090757	0.000380	0.008507	0.004526	0.001273	0.012730
6-Aug-2030	13.957105	8.207250	12.536600	2.058500	28.970406	1.021280	0.011739	0.113521	0.034257	0.002270	0.001420	0.090624	0.000378	0.008477	0.004505	0.001268	0.012680
7-Aug-2030	14.203959	8.248120	12.612400	2.065590	29.101655	1.028770	0.011812	0.114245	0.034266	0.002281	0.001421	0.091204	0.000381	0.008501	0.004529	0.001274	0.012741
8-Aug-2030	15.087024	8.184690	12.498100	2.056620	28.906332	1.017180	0.011695	0.113066	0.034110	0.002261	0.001420	0.091558	0.000377	0.008448	0.004490	0.001264	0.012643
9-Aug-2030	15.500321	8.439720	12.958200	2.097340	29.710827	1.063290	0.012156	0.117668	0.034428	0.002347	0.001426	0.091744	0.000392	0.008638	0.004643	0.001302	0.013022
10-Aug-2030	16.247947	8.438270	12.956700	2.097270	29.706918	1.063070	0.012153	0.117640	0.034421	0.002344	0.001426	0.091520	0.000392	0.008635	0.004642	0.001302	0.013021
11-Aug-2030	16.326989	8.372050	12.837400	2.088450	29.505246	1.050930	0.012029	0.116392	0.034234	0.002323	0.001425	0.091237	0.000388	0.008576	0.004600	0.001292	0.012919
12-Aug-2030	17.324709	8.399660	12.887700	2.093290	29.594119	1.055890	0.012077	0.116878	0.034239	0.002332	0.001425	0.091584	0.000390	0.008594	0.004616	0.001296	0.012959
13-Aug-2030	17.657188	8.580300	13.215500	2.121890	30.162952	1.088730	0.012404	0.120145	0.034458	0.002391	0.001429	0.092021	0.000401	0.008727	0.004725	0.001323	0.013230
14-Aug-2030	16.964459	8.579590	13.214500	2.122210	30.162497	1.088570	0.012402	0.120118	0.034429	0.002390	0.001429	0.092010	0.000401	0.008724	0.004724	0.001323	0.013228
15-Aug-2030	16.347733	8.637970	13.324400	2.132600	30.351058	1.099320	0.012505	0.121150	0.034415	0.002404	0.001431	0.092759	0.000404	0.008756	0.004757	0.001332	0.013316
16-Aug-2030	16.231916	8.655960	13.358200	2.135850	30.409362	1.102640	0.012537	0.121465	0.034395	0.002408	0.001431	0.091985	0.000405	0.008765	0.004768	0.001334	0.013343
17-Aug-2030	16.010871	8.773300	13.572400	2.153660	30.775702	1.124150	0.012751	0.123611	0.034562	0.002444	0.001434	0.092322	0.000413	0.008853	0.004839	0.001352	0.013520
18-Aug-2030	15.716030	8.784080	13.592700	2.156130	30.812791	1.126040	0.012769	0.123788	0.034553	0.002447	0.001434	0.092535	0.000413	0.008857	0.004844	0.001354	0.013537
19-Aug-2030	15.235682	8.680200	13.404700	2.142020	30.495298	1.106940	0.012575	0.121834	0.034275	0.002414	0.001432	0.092703	0.000407	0.008767	0.004779	0.001338	0.013375
20-Aug-2030	14.693842	8.691700	13.425700	2.144690	30.535008	1.108930	0.012593	0.122014	0.034249	0.002418	0.001433	0.093602	0.000408	0.008772	0.004785	0.001339	0.013391
21-Aug-2030	14.693282	8.743410	13.520000	2.153240	30.699337	1.118310	0.012686	0.122938	0.034293	0.002434	0.001434	0.093351	0.000411	0.008807	0.004816	0.001347	0.013469
22-Aug-2030	14.828771	8.742630	13.518400	2.153520	30.698542	1.118110	0.012683	0.122910	0.034266	0.002435	0.001434	0.092872	0.000411	0.008805	0.004815	0.001347	0.013466
23-Aug-2030	15.210937	8.910840	13.822800	2.180510	31.229708	1.148560	0.012985	0.125923	0.034466	0.002491	0.001438	0.092933	0.000421	0.008928	0.004916	0.001372	0.013716
24-Aug-2030	15.505168	9.083420	14.138300	2.207340	31.771126	1.180140	0.013299	0.129063	0.034679	0.002543	0.001442	0.093406	0.000432	0.009054	0.005020	0.001398	0.013977
25-Aug-2030	15.100486	9.118770	14.203000	2.213240	31.883691	1.186560	0.013363	0.129694	0.034709	0.002553	0.001442	0.093504	0.000434	0.009078	0.005041	0.001403	0.014030
26-Aug-2030	14.481928	9.053280	14.084900	2.204460	31.684006	1.174540	0.013240	0.128462	0.034526	0.002532	0.001441	0.093263	0.000430	0.009020	0.005000	0.001393	0.013929
27-Aug-2030	13.972484	9.048830	14.077100	2.204660	31.673718	1.173640	0.013229	0.128350	0.034473	0.002531	0.001441	0.093255	0.000430	0.009012	0.004996	0.001392	0.013920
28-Aug-2030	13.680418	8.887920	13.785700	2.181520	31.176636	1.144220	0.012932	0.125371	0.034128	0.002481	0.001438	0.093455	0.000420	0.008880	0.004896	0.001367	0.013674
29-Aug-2030	13.498875	9.256000	14.456200	2.237440	32.326010	1.211530	0.013605	0.132101	0.034695	0.002594	0.001446	0.093814	0.000442	0.009160	0.005120	0.001423	0.014231
30-Aug-2030	13.866471	9.205530	14.361800	2.231930	32.177296	1.201840	0.013504	0.131081	0.034525	0.002584	0.001445	0.093917	0.000439	0.009114	0.005088	0.001415	0.014148
31-Aug-2030	14.078812	9.283210	14.503700	2.244310	32.422244	1.215980	0.013645	0.132488	0.034624	0.002607	0.001447	0.094122	0.000444	0.009171	0.005134	0.001427	0.014266
1-Sep-2030	12.890624	9.025820	14.037300	2.205750	31.620751	1.169160	0.013174	0.127771	0.034127	0.002528	0.001441	0.094409	0.000428	0.008967	0.004976	0.001387	0.013874
2-Sep-2030	11.957403	9.105030	14.177100	2.219040	31.873267	1.183070	0.013312	0.129153	0.034221	0.002571	0.001444	0.094837	0.000433	0.009029	0.005024	0.001399	0.013990
3-Sep-2030	11.968251	9.189600	14.320900	2.234020	32.146126	1.197390	0.013454	0.130566	0.034302	0.002600	0.001447	0.094913	0.000438	0.009100	0.005076	0.001411	0.014108
4-Sep-2030	11.742578	9.732290	15.324200	2.313890	33.830127	1.298190	0.014462	0.140661	0.035177	0.002743	0.001456	0.095402	0.000471	0.009500	0.005405	0.001494	0.014944
5-Sep-2030	11.274891	9.400510	14.718400	2.264170	32.796926	1.237320	0.013853	0.134569	0.034646	0.002644	0.001450	0.094516	0.000451	0.009248	0.005203	0.001444	0.014439
6-Sep-2030	11.211388	9.625650	15.131500	2.298410	33.500100	1.278890	0.014266	0.138696	0.034928	0.002713	0.001453	0.095109	0.000465	0.009412	0.005340	0.001478	0.014779
7-Sep-2030	11.565345	9.578020	15.045100	2.291590	33.353084	1.270230	0.014178	0.137814	0.034817	0.002700	0.001452	0.095008	0.000462	0.009373	0.005310	0.001470	0.014704
8-Sep-2030	11.131150	9.487000	14.880000	2.278080	33.070172	1.253700	0.014011	0.136145	0.034635	0.002673	0.001450	0.095038	0.000456	0.009301	0.005255	0.001456	0.014564
9-Sep-2030	10.507763	9.502350	14.907900	2.280490	33.118426	1.256460	0.014039	0.136425	0.034661	0.002677	0.001450	0.094996	0.000457	0.009312	0.005264	0.001459	0.014588
10-Sep-2030	10.058571	9.846850	15.537000	2.332800	34.194055	1.319650	0.014671	0.142746	0.035179	0.002781	0.001457	0.095745	0.000478	0.009572	0.005473	0.001511	0.015111
11-Sep-2030	10.086262	9.734480	15.331900	2.315870	33.843749	1.299020	0.014465	0.140683	0.035007	0.002747	0.001455	0.095423	0.000472	0.009487	0.005405	0.001494	0.014941
12-Sep-2030	10.136853	9.914730	15.662400	2.343330	34.406914	1.332250	0.014794	0.143982	0.035229	0.002802	0.001458	0.095889	0.000483	0.009618	0.005514	0.001521	0.015213

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
13-Sep-2030	9.772165	9.932520	15.696300	2.346230	34.463278	1.335710	0.014828	0.144315	0.035228	0.002807	0.001458	0.095915	0.000484	0.009628	0.005525	0.001524	0.015239
14-Sep-2030	9.569646	9.839240	15.527200	2.332330	34.173117	1.318710	0.014657	0.142604	0.035053	0.002778	0.001456	0.095605	0.000478	0.009554	0.005467	0.001510	0.015096
15-Sep-2030	9.485117	9.890950	15.622600	2.340600	34.336293	1.328390	0.014751	0.143548	0.035079	0.002797	0.001457	0.095816	0.000481	0.009589	0.005499	0.001517	0.015172
16-Sep-2030	9.631729	10.139100	16.076300	2.378170	35.110637	1.373950	0.015207	0.148107	0.035450	0.002870	0.001462	0.096444	0.000497	0.009775	0.005649	0.001555	0.015549
17-Sep-2030	9.695810	9.921070	15.679700	2.344970	34.429498	1.334280	0.014809	0.144122	0.035084	0.002806	0.001457	0.095869	0.000483	0.009608	0.005517	0.001522	0.015217
18-Sep-2030	9.297134	10.222200	16.228000	2.391320	35.372289	1.389190	0.015357	0.149606	0.035523	0.002898	0.001463	0.096760	0.000502	0.009835	0.005699	0.001567	0.015672
19-Sep-2030	8.897692	9.860990	15.573100	2.336140	34.243117	1.323650	0.014699	0.143030	0.034908	0.002788	0.001454	0.096271	0.000480	0.009555	0.005480	0.001512	0.015123
20-Sep-2030	8.423744	10.002900	15.831600	2.357870	34.686950	1.349640	0.014959	0.145623	0.035106	0.002832	0.001457	0.096310	0.000488	0.009661	0.005566	0.001534	0.015337
21-Sep-2030	8.113661	9.971690	15.774700	2.353530	34.591146	1.343920	0.014901	0.145042	0.035029	0.002824	0.001456	0.096493	0.000487	0.009636	0.005546	0.001529	0.015289
22-Sep-2030	7.838205	10.455100	16.655800	2.427020	36.100853	1.432210	0.015785	0.153896	0.035818	0.002967	0.001467	0.097322	0.000516	0.010004	0.005840	0.001603	0.016025
23-Sep-2030	7.758687	10.502100	16.741900	2.434460	36.248850	1.440860	0.015870	0.154747	0.035852	0.002982	0.001468	0.097470	0.000519	0.010037	0.005868	0.001609	0.016095
24-Sep-2030	7.466911	10.607500	16.935200	2.450530	36.578210	1.460290	0.016064	0.156688	0.036001	0.003014	0.001470	0.097737	0.000525	0.010114	0.005932	0.001626	0.016255
25-Sep-2030	7.481337	10.536000	16.806200	2.439740	36.355241	1.447380	0.015934	0.155388	0.035865	0.002992	0.001468	0.097475	0.000521	0.010057	0.005889	0.001615	0.016146
26-Sep-2030	7.278731	10.606700	16.936300	2.450770	36.577201	1.460440	0.016063	0.156672	0.035928	0.003014	0.001469	0.097668	0.000525	0.010107	0.005931	0.001625	0.016252
27-Sep-2030	6.640460	10.402100	16.564300	2.419870	35.939068	1.423140	0.015690	0.152938	0.035597	0.002951	0.001465	0.097051	0.000513	0.009949	0.005807	0.001594	0.015941
28-Sep-2030	5.641848	10.532000	16.802300	2.439500	36.344265	1.447090	0.015929	0.155336	0.035792	0.002990	0.001467	0.097374	0.000521	0.010046	0.005886	0.001614	0.016139
29-Sep-2030	5.487581	10.577800	16.887100	2.446870	36.488977	1.455600	0.016012	0.156160	0.035805	0.003004	0.001468	0.097490	0.000524	0.010076	0.005913	0.001621	0.016206
30-Sep-2030	4.851873	10.465500	16.683700	2.430050	36.139299	1.435170	0.015807	0.154111	0.035611	0.002969	0.001465	0.097114	0.000517	0.009988	0.005844	0.001604	0.016036
1-Oct-2030	4.281768	10.465800	16.684200	2.430170	36.140543	1.435240	0.015808	0.154118	0.035604	0.002970	0.001465	0.097114	0.000517	0.009987	0.005844	0.001604	0.016036
2-Oct-2030	3.431795	10.373200	16.515800	2.415790	35.850104	1.418430	0.015639	0.152435	0.035458	0.002942	0.001463	0.096907	0.000511	0.009917	0.005788	0.001589	0.015895
3-Oct-2030	2.685765	10.341000	16.456700	2.410850	35.749357	1.412540	0.015581	0.151852	0.035418	0.002933	0.001462	0.096931	0.000509	0.009894	0.005769	0.001585	0.015846
4-Oct-2030	1.702363	10.306100	16.393000	2.405380	35.639687	1.406190	0.015519	0.151227	0.035379	0.002923	0.001461	0.096844	0.000507	0.009869	0.005748	0.001579	0.015794
5-Oct-2030	0.940982	10.279100	16.343900	2.401100	35.554643	1.401310	0.015471	0.150747	0.035350	0.002914	0.001460	0.096791	0.000506	0.009849	0.005732	0.001575	0.015753
6-Oct-2030	0.330845	10.263400	16.315600	2.398520	35.504815	1.398530	0.015443	0.150470	0.035330	0.002910	0.001460	0.096692	0.000505	0.009837	0.005722	0.001573	0.015730
7-Oct-2030	0.066451	10.222300	16.240800	2.391980	35.375257	1.391160	0.015369	0.149733	0.035255	0.002899	0.001459	0.096587	0.000502	0.009806	0.005698	0.001567	0.015666
8-Oct-2030	0.043284	10.218200	16.233900	2.391160	35.361642	1.390560	0.015362	0.149667	0.035237	0.002899	0.001458	0.096573	0.000502	0.009802	0.005695	0.001566	0.015660
9-Oct-2030	0.063711	10.217200	16.232400	2.390910	35.358116	1.390440	0.015361	0.149655	0.035237	0.002898	0.001458	0.096723	0.000502	0.009801	0.005695	0.001566	0.015658
10-Oct-2030	0.049322	10.208000	16.216400	2.389160	35.327937	1.388910	0.015345	0.149501	0.035221	0.002895	0.001457	0.096674	0.000501	0.009794	0.005689	0.001564	0.015645
11-Oct-2030	0.031660	10.190300	16.185000	2.386060	35.270974	1.385870	0.015315	0.149197	0.035191	0.002890	0.001456	0.096561	0.000500	0.009780	0.005679	0.001562	0.015618
12-Oct-2030	0.026203	10.172800	16.153900	2.383200	35.215499	1.382860	0.015284	0.148893	0.035161	0.002885	0.001456	0.096415	0.000499	0.009767	0.005668	0.001559	0.015591
13-Oct-2030	0.032723	10.162700	16.135500	2.381480	35.183197	1.381050	0.015266	0.148712	0.035139	0.002882	0.001455	0.096352	0.000499	0.009759	0.005662	0.001558	0.015576
14-Oct-2030	0.009240	10.132900	16.081600	2.376600	35.088690	1.375800	0.015213	0.148185	0.035084	0.002875	0.001454	0.096360	0.000497	0.009736	0.005645	0.001553	0.015530
15-Oct-2030	0.018715	10.130400	16.078100	2.375900	35.079565	1.375500	0.015210	0.148153	0.035079	0.002874	0.001453	0.096276	0.000497	0.009734	0.005643	0.001553	0.015526
16-Oct-2030	0.021048	10.126600	16.069400	2.375840	35.069829	1.374480	0.015201	0.148062	0.035092	0.002872	0.001454	0.096459	0.000497	0.009732	0.005641	0.001552	0.015521
17-Oct-2030	0.020391	10.204300	16.192100	2.394280	35.339782	1.384910	0.015317	0.149189	0.035366	0.002894	0.001466	0.097404	0.000500	0.009808	0.005684	0.001564	0.015640
18-Oct-2030	0.019368	10.298200	16.341600	2.416230	35.664641	1.397740	0.015458	0.150569	0.035697	0.002921	0.001479	0.098484	0.000505	0.009898	0.005736	0.001578	0.015784
19-Oct-2030	0.018645	10.354500	16.428400	2.430230	35.862874	1.404880	0.015540	0.151357	0.035909	0.002937	0.001488	0.099520	0.000508	0.009954	0.005767	0.001587	0.015871
20-Oct-2030	0.018149	10.411800	16.520100	2.443410	36.060227	1.412810	0.015627	0.152205	0.036100	0.002953	0.001496	0.100573	0.000510	0.010009	0.005799	0.001596	0.015958
21-Oct-2030	0.017943	10.428000	16.546300	2.447010	36.115503	1.415120	0.015652	0.152450	0.036150	0.002958	0.001510	0.101553	0.000511	0.010024	0.005808	0.001598	0.015983
22-Oct-2030	0.018359	10.434200	16.557500	2.448020	36.135144	1.416220	0.015663	0.152559	0.036159	0.002959	0.001522	0.102342	0.000512	0.010028	0.005812	0.001599	0.015992
23-Oct-2030	0.018610	10.448200	16.579400	2.451470	36.184309	1.418040	0.015683	0.152758	0.036212	0.002963	0.001527	0.102599	0.000512	0.010042	0.005820	0.001601	0.016014
24-Oct-2030	0.018756	10.470700	16.614200	2.461680	36.282536	1.420930	0.015716	0.153075	0.036316	0.002970	0.001538	0.103282	0.000513	0.010065	0.005832	0.001605	0.016049
25-Oct-2030	0.019154	10.465000	16.604000	2.478710	36.338433	1.419930	0.015706	0.152975	0.036573	0.002983	0.001548	0.103917	0.000513	0.010081	0.005829	0.001604	0.016040
26-Oct-2030	0.019694	10.464100	16.600300	2.496020	36.407468	1.419490	0.015702	0.152932	0.036833	0.003004	0.001558	0.104574	0.000513	0.010153	0.005828	0.001604	0.016039
27-Oct-2030	0.020226	10.542300	16.726600	2.514580	36.679164	1.430450	0.015822	0.154106	0.037110	0.003026	0.001570	0.105322	0.000517	0.010229	0.005872	0.001616	0.016158
28-Oct-2030	0.020526	10.614300	16.795300	2.534490	36.940937	1.436380	0.015887	0.154741	0.037406	0.003050	0.001582	0.106164	0.000519	0.010310	0.005896	0.001624	0.016240
29-Oct-2030	0.021160	10.695800	16.844100	2.552210	37.217413	1.440510	0.015933	0.155189	0.037669	0.003072	0.001592	0.106768	0.000520	0.010385	0.005934	0.001637	0.016366
30-Oct-2030	0.021715	10.781200	16.980900	2.570390	37.505522	1.445080	0.016018	0.155813	0.037940	0.003095	0.001602	0.107352	0.000523	0.010463	0.005983	0.001650	0.016498
31-Oct-2030	0.022811	10.821800	17.057800	2.575910	37.629632	1.449930	0.016095	0.156584	0.038024	0.003102	0.001602	0.107252	0.000526	0.010492	0.006008	0.001656	0.016563
1-Nov-2030	0.024106	10.890900	17.170200	2.591230	37.865262	1.458410	0.016203	0.157634	0.038250	0.003121	0.001611	0.107801	0.000529	0.010556	0.006047	0.001667	0.016669
2-Nov-2030	0.024450	10.972200	17.297500	2.610850	38.149064	1.469150	0.016322	0.158798	0.038537	0.003145	0.001624	0.108640	0.000533	0.010635	0.006092	0.001679	0.016793
3-Nov-2030	0.024540	11.063000	17.440500	2.632590	38.465317	1.481260	0.016457	0.160109	0.038857	0.003171	0.001637	0.109554	0.000537	0.010724	0.006142	0.001693	0.016932
4-Nov-2030	0.025226	11.133200	17.548500	2.650090	38.712671	1.490200	0.016558	0.161088	0.039117	0.003192	0.001649	0.110346	0.000541	0.010794	0.006181	0.001704	0.017039

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
5-Nov-2030	0.025342	11.196900	17.648100	2.665540	38.935353	1.498580	0.016652	0.161998	0.039347	0.003210	0.001658	0.111010	0.000544	0.010856	0.006216	0.001714	0.017137
6-Nov-2030	0.024961	11.267700	17.757800	2.683000	39.184041	1.507720	0.016755	0.162996	0.039603	0.003231	0.001670	0.111787	0.000547	0.010926	0.006255	0.001724	0.017244
7-Nov-2030	0.024692	11.348700	17.885100	2.702400	39.466187	1.518500	0.016875	0.164162	0.039889	0.003255	0.001682	0.112605	0.000551	0.011005	0.006300	0.001737	0.017368
8-Nov-2030	0.024460	11.429500	18.012100	2.721740	39.747587	1.529250	0.016995	0.165326	0.040175	0.003278	0.001694	0.113419	0.000555	0.011084	0.006345	0.001749	0.017492
9-Nov-2030	0.024380	11.502800	18.127600	2.739190	40.002476	1.539050	0.017103	0.166386	0.040434	0.003299	0.001705	0.114146	0.000558	0.011155	0.006385	0.001760	0.017604
10-Nov-2030	0.024078	11.566300	18.228100	2.754130	40.222558	1.547620	0.017199	0.167312	0.040658	0.003317	0.001714	0.114754	0.000562	0.011216	0.006421	0.001770	0.017701
11-Nov-2030	0.023699	11.632700	18.333100	2.769820	40.452971	1.556570	0.017298	0.168279	0.040893	0.003336	0.001724	0.115397	0.000565	0.011281	0.006458	0.001780	0.017803
12-Nov-2030	0.023718	11.703500	18.444600	2.786630	40.698982	1.566040	0.017403	0.169303	0.041143	0.003356	0.001734	0.116094	0.000568	0.011349	0.006497	0.001791	0.017912
13-Nov-2030	0.023944	11.769800	18.549600	2.802300	40.929062	1.574980	0.017502	0.170269	0.041377	0.003375	0.001744	0.116737	0.000571	0.011414	0.006534	0.001801	0.018014
14-Nov-2030	0.024007	11.832800	18.651100	2.816540	41.145013	1.583820	0.017599	0.171214	0.041589	0.003392	0.001752	0.117269	0.000575	0.011473	0.006569	0.001811	0.018110
15-Nov-2030	0.024089	11.898300	18.757800	2.831040	41.368278	1.593180	0.017701	0.172210	0.041805	0.003410	0.001761	0.117784	0.000578	0.011534	0.006606	0.001821	0.018211
16-Nov-2030	0.024112	11.960300	18.859100	2.844690	41.579303	1.602100	0.017798	0.173158	0.042007	0.003426	0.001768	0.118262	0.000581	0.011591	0.006641	0.001831	0.018307
17-Nov-2030	0.024053	12.017400	18.953100	2.856960	41.772409	1.610460	0.017888	0.174042	0.042189	0.003442	0.001775	0.118667	0.000584	0.011643	0.006674	0.001840	0.018395
18-Nov-2030	0.023983	11.974900	18.889600	2.845690	41.619877	1.605390	0.017829	0.173477	0.042025	0.003428	0.001767	0.118103	0.000582	0.011599	0.006651	0.001833	0.018331
19-Nov-2030	0.024444	12.023800	18.972100	2.855660	41.783036	1.612880	0.017909	0.174261	0.042173	0.003441	0.001772	0.118381	0.000585	0.011642	0.006679	0.001841	0.018407
20-Nov-2030	0.024953	12.072500	19.054300	2.865510	41.945203	1.620350	0.017988	0.175043	0.042319	0.003453	0.001777	0.118652	0.000587	0.011685	0.006707	0.001848	0.018483
21-Nov-2030	0.025031	12.125300	19.142300	2.876500	42.122301	1.628270	0.018073	0.175876	0.042482	0.003467	0.001783	0.118985	0.000590	0.011733	0.006737	0.001856	0.018565
22-Nov-2030	0.024787	12.179500	19.231800	2.888150	42.305613	1.636230	0.018159	0.176717	0.042654	0.003481	0.001789	0.119369	0.000593	0.011782	0.006768	0.001865	0.018648
23-Nov-2030	0.024471	12.232400	19.318200	2.899760	42.485514	1.643850	0.018242	0.177526	0.042826	0.003495	0.001796	0.119775	0.000596	0.011831	0.006797	0.001873	0.018730
24-Nov-2030	0.024470	12.272400	19.381200	2.909320	42.624763	1.649190	0.018301	0.178104	0.042967	0.003507	0.001802	0.120176	0.000598	0.011870	0.006820	0.001879	0.018791
25-Nov-2030	0.024459	12.332700	19.477600	2.923220	42.832572	1.657510	0.018392	0.178996	0.043173	0.003524	0.001810	0.120717	0.000601	0.011927	0.006853	0.001888	0.018884
26-Nov-2030	0.024622	12.397300	19.580400	2.938270	43.055854	1.666330	0.018490	0.179945	0.043396	0.003542	0.001819	0.121317	0.000604	0.011989	0.006889	0.001898	0.018983
27-Nov-2030	0.024831	12.467200	19.691300	2.954670	43.297929	1.675810	0.018595	0.180967	0.043639	0.003562	0.001829	0.121981	0.000607	0.012056	0.006928	0.001909	0.019090
28-Nov-2030	0.024629	12.542900	19.811600	2.972410	43.560006	1.686110	0.018709	0.182076	0.043901	0.003583	0.001840	0.122695	0.000611	0.012129	0.006970	0.001921	0.019206
29-Nov-2030	0.024333	12.340100	19.496800	2.922550	42.848291	1.659820	0.018413	0.179211	0.043167	0.003524	0.001808	0.120492	0.000601	0.011928	0.006859	0.001890	0.018897
30-Nov-2030	0.024538	12.399700	19.592000	2.936280	43.053652	1.668040	0.018504	0.180092	0.043370	0.003540	0.001816	0.121028	0.000604	0.011985	0.006892	0.001899	0.018988
1-Dec-2030	0.024679	12.468400	19.699900	2.952820	43.293308	1.677150	0.018605	0.181080	0.043614	0.003560	0.001827	0.121768	0.000608	0.012052	0.006930	0.001909	0.019093
2-Dec-2030	0.024600	12.538400	19.810500	2.969960	43.538680	1.686560	0.018710	0.182096	0.043866	0.003581	0.001838	0.122490	0.000611	0.012121	0.006969	0.001920	0.019201
3-Dec-2030	0.024475	12.609400	19.921300	2.986610	43.784532	1.695880	0.018814	0.183109	0.044112	0.003601	0.001848	0.123157	0.000614	0.012189	0.007008	0.001931	0.019309
4-Dec-2030	0.024503	12.414100	19.617300	2.938870	43.100274	1.670420	0.018528	0.180338	0.043409	0.003544	0.001817	0.121069	0.000605	0.011997	0.006900	0.001901	0.019011
5-Dec-2030	0.024523	12.478100	19.719900	2.953630	43.320864	1.679280	0.018626	0.181288	0.043627	0.003562	0.001826	0.121644	0.000608	0.012058	0.006936	0.001911	0.019109
6-Dec-2030	0.024574	12.537600	19.816300	2.966910	43.524123	1.687710	0.018718	0.182186	0.043823	0.003578	0.001834	0.122127	0.000611	0.012113	0.006970	0.001920	0.019201
7-Dec-2030	0.024616	12.600600	19.918400	2.981030	43.739580	1.696640	0.018815	0.183138	0.044032	0.003595	0.001842	0.122645	0.000614	0.012172	0.007005	0.001930	0.019298
8-Dec-2030	0.024683	12.673800	20.036900	2.997450	43.989978	1.706980	0.018928	0.184241	0.044275	0.003615	0.001852	0.123249	0.000618	0.012241	0.007046	0.001941	0.019411
9-Dec-2030	0.024514	12.745400	20.151900	3.013800	44.236092	1.716940	0.019037	0.185308	0.044517	0.003635	0.001861	0.123875	0.000622	0.012308	0.007087	0.001952	0.019521
10-Dec-2030	0.024334	12.814200	20.261000	3.030000	44.474597	1.726260	0.019140	0.186312	0.044757	0.003655	0.001871	0.124534	0.000625	0.012375	0.007125	0.001963	0.019626
11-Dec-2030	0.024305	12.867300	20.345900	3.042190	44.657387	1.733600	0.019221	0.187099	0.044937	0.003669	0.001879	0.125007	0.000628	0.012425	0.007155	0.001971	0.019708
12-Dec-2030	0.024292	12.906000	20.410300	3.050360	44.787664	1.739360	0.019283	0.187706	0.045058	0.003680	0.001883	0.125263	0.000630	0.012460	0.007177	0.001977	0.019768
13-Dec-2030	0.024273	12.941600	20.471200	3.057280	44.905054	1.744980	0.019342	0.188290	0.045161	0.003688	0.001886	0.125428	0.000632	0.012491	0.007197	0.001982	0.019823
14-Dec-2030	0.024262	12.983700	20.543100	3.065510	45.044069	1.751600	0.019412	0.188979	0.045284	0.003699	0.001890	0.125629	0.000634	0.012527	0.007222	0.001989	0.019889
15-Dec-2030	0.024234	13.025100	20.613200	3.073830	45.181707	1.757990	0.019480	0.189647	0.045407	0.003709	0.001894	0.125852	0.000636	0.012563	0.007245	0.001995	0.019953
16-Dec-2030	0.024281	13.068800	20.684900	3.083320	45.329905	1.764340	0.019548	0.190319	0.045548	0.003721	0.001899	0.126174	0.000638	0.012603	0.007270	0.002002	0.020020
17-Dec-2030	0.024322	13.124500	20.774100	3.096100	45.521616	1.772050	0.019633	0.191146	0.045737	0.003737	0.001907	0.126669	0.000641	0.012656	0.007301	0.002011	0.020106
18-Dec-2030	0.024281	13.174800	20.854700	3.107640	45.694737	1.779010	0.019710	0.191892	0.045908	0.003751	0.001914	0.127115	0.000644	0.012704	0.007329	0.002018	0.020183
19-Dec-2030	0.024318	13.210600	20.914300	3.115190	45.815221	1.784350	0.019767	0.192455	0.046020	0.003760	0.001918	0.127352	0.000646	0.012736	0.007350	0.002024	0.020239
20-Dec-2030	0.024395	13.254600	20.987900	3.124260	45.962439	1.791000	0.019838	0.193152	0.046154	0.003771	0.001923	0.127618	0.000648	0.012775	0.007375	0.002031	0.020307
21-Dec-2030	0.024348	13.301200	21.064500	3.134330	46.120267	1.797800	0.019911	0.193872	0.046304	0.003784	0.001928	0.127956	0.000650	0.012818	0.007401	0.002038	0.020379
22-Dec-2030	0.024324	13.313300	21.086300	3.136370	46.158882	1.799890	0.019933	0.194086	0.046334	0.003786	0.001929	0.127973	0.000651	0.012828	0.007409	0.002040	0.020398
23-Dec-2030	0.024393	13.349700	21.145700	3.144390	46.282799	1.805120	0.019989	0.194641	0.046453	0.003796	0.001933	0.128256	0.000653	0.012861	0.007429	0.002045	0.020454
24-Dec-2030	0.024356	13.390200	21.211100	3.153530	46.421566	1.810820	0.020052	0.195250	0.046588	0.003807	0.001939	0.128596	0.000655	0.012899	0.007452	0.002052	0.020517
25-Dec-2030	0.024336	13.412400	21.247600	3.158310	46.496683	1.814050	0.020087	0.195592	0.046659	0.003813	0.001941	0.128755	0.000656	0.012920	0.007465	0.002055	0.020551
26-Dec-2030	0.024387	13.440700	21.293800	3.164580	46.593168	1.818110	0.020131	0.196024	0.046752	0.003821	0.001945	0.128978	0.000658	0.012946	0.007481	0.002059	0.020594
27-Dec-2030	0.024349	13.453700	21.316000	3.167090	46.635966	1.820170	0.020152	0.196237	0.046790	0.003824	0.001946	0.129037	0.000658	0.012957	0.007488	0.002061	0.020615

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
28-Dec-2030	0.024311	13.478000	21.355300	3.172530	46.719045	1.823600	0.020190	0.196603	0.046870	0.003831	0.001949	0.129236	0.000659	0.012980	0.007502	0.002065	0.020652
29-Dec-2030	0.024332	13.516000	21.416100	3.181330	46.850169	1.828840	0.020248	0.197166	0.047000	0.003842	0.001955	0.129582	0.000661	0.013016	0.007523	0.002071	0.020710
30-Dec-2030	0.024315	13.565400	21.494600	3.192890	47.021125	1.835560	0.020322	0.197889	0.047171	0.003856	0.001962	0.130047	0.000664	0.013063	0.007551	0.002079	0.020786
31-Dec-2030	0.024294	13.609700	21.564900	3.203290	47.174569	1.841570	0.020388	0.198537	0.047325	0.003868	0.001968	0.130469	0.000666	0.013106	0.007575	0.002085	0.020854
1-Jan-2031	0.024310	13.655100	21.636600	3.214010	47.332078	1.847680	0.020456	0.199196	0.047483	0.003881	0.001975	0.130909	0.000668	0.013150	0.007600	0.002092	0.020924
2-Jan-2031	0.024319	13.706900	21.718300	3.226340	47.512197	1.854620	0.020533	0.199947	0.047665	0.003896	0.001982	0.131422	0.000671	0.013200	0.007629	0.002100	0.021003
3-Jan-2031	0.024307	13.753200	21.791100	3.237420	47.673436	1.860780	0.020602	0.200613	0.047829	0.003909	0.001989	0.131888	0.000673	0.013245	0.007655	0.002107	0.021074
4-Jan-2031	0.024310	13.797600	21.860600	3.248100	47.828283	1.866650	0.020667	0.201250	0.047986	0.003922	0.001996	0.132343	0.000675	0.013288	0.007679	0.002114	0.021142
5-Jan-2031	0.024321	13.848000	21.939800	3.260220	48.004042	1.873350	0.020742	0.201975	0.048165	0.003937	0.002004	0.132856	0.000677	0.013338	0.007707	0.002122	0.021219
6-Jan-2031	0.024307	13.902700	22.025800	3.273290	48.194450	1.880630	0.020823	0.202763	0.048358	0.003952	0.002012	0.133404	0.000680	0.013391	0.007738	0.002130	0.021302
7-Jan-2031	0.024293	13.957700	22.112300	3.286430	48.385896	1.887970	0.020905	0.203557	0.048552	0.003968	0.002020	0.133955	0.000683	0.013444	0.007768	0.002139	0.021386
8-Jan-2031	0.024292	14.015200	22.202900	3.300140	48.585931	1.895650	0.020990	0.204388	0.048754	0.003985	0.002029	0.134527	0.000686	0.013500	0.007800	0.002147	0.021474
9-Jan-2031	0.024295	14.073100	22.294100	3.313980	48.787500	1.903380	0.021076	0.205225	0.048959	0.004001	0.002037	0.135107	0.000688	0.013556	0.007832	0.002156	0.021563
10-Jan-2031	0.024304	14.132400	22.387300	3.328210	48.994172	1.911260	0.021164	0.206078	0.049169	0.004018	0.002046	0.135708	0.000691	0.013614	0.007865	0.002165	0.021654
11-Jan-2031	0.024320	14.193700	22.483500	3.342920	49.207813	1.919400	0.021254	0.206959	0.049386	0.004036	0.002055	0.136331	0.000694	0.013674	0.007899	0.002175	0.021748
12-Jan-2031	0.024341	14.257900	22.584200	3.358310	49.431497	1.927920	0.021349	0.207882	0.049613	0.004055	0.002065	0.136980	0.000697	0.013736	0.007935	0.002185	0.021846
13-Jan-2031	0.024357	14.326400	22.692000	3.374720	49.670118	1.937040	0.021451	0.208870	0.049855	0.004074	0.002075	0.137671	0.000701	0.013803	0.007973	0.002195	0.021950
14-Jan-2031	0.024370	14.398500	22.805500	3.391900	49.920899	1.946670	0.021558	0.209911	0.050109	0.004095	0.002086	0.138389	0.000704	0.013873	0.008013	0.002206	0.022061
15-Jan-2031	0.024380	14.467400	22.914300	3.408210	50.160107	1.955940	0.021661	0.210912	0.050350	0.004115	0.002096	0.139061	0.000707	0.013939	0.008051	0.002217	0.022166
16-Jan-2031	0.024383	14.534500	23.021000	3.423940	50.392431	1.965070	0.021762	0.211895	0.050582	0.004134	0.002106	0.139695	0.000711	0.014004	0.008088	0.002227	0.022269
17-Jan-2031	0.024370	14.600400	23.126000	3.439250	50.620030	1.974090	0.021861	0.212865	0.050809	0.004152	0.002115	0.140303	0.000714	0.014067	0.008125	0.002237	0.022370
18-Jan-2031	0.024348	14.665400	23.229800	3.454280	50.844229	1.983030	0.021960	0.213825	0.051031	0.004170	0.002124	0.140894	0.000717	0.014129	0.008161	0.002247	0.022470
19-Jan-2031	0.024337	14.728000	23.329900	3.468740	51.060087	1.991660	0.022055	0.214751	0.051245	0.004188	0.002133	0.141461	0.000720	0.014188	0.008196	0.002257	0.022566
20-Jan-2031	0.024337	14.778100	23.410300	3.480210	51.232420	1.998620	0.022131	0.215496	0.051414	0.004202	0.002140	0.141901	0.000723	0.014236	0.008224	0.002264	0.022643
21-Jan-2031	0.024340	14.817300	23.473600	3.489000	51.366500	2.004140	0.022191	0.216086	0.051544	0.004213	0.002145	0.142226	0.000725	0.014273	0.008246	0.002270	0.022703
22-Jan-2031	0.024343	14.856400	23.537100	3.497730	51.500083	2.009710	0.022252	0.216678	0.051674	0.004223	0.002150	0.142542	0.000727	0.014309	0.008269	0.002276	0.022764
23-Jan-2031	0.024344	14.923800	23.644600	3.513350	51.732704	2.018950	0.022354	0.217671	0.051905	0.004242	0.002159	0.143160	0.000730	0.014373	0.008306	0.002287	0.022867
24-Jan-2031	0.024342	14.999900	23.765800	3.531070	51.995697	2.029350	0.022468	0.218790	0.052166	0.004264	0.002170	0.143866	0.000734	0.014446	0.008349	0.002298	0.022984
25-Jan-2031	0.024343	15.087700	23.905500	3.551560	52.299311	2.041340	0.022601	0.220079	0.052469	0.004289	0.002182	0.144686	0.000738	0.014530	0.008398	0.002312	0.023119
26-Jan-2031	0.024344	15.189500	24.067400	3.575330	52.651390	2.055210	0.022754	0.221572	0.052821	0.004317	0.002197	0.145639	0.000743	0.014628	0.008454	0.002327	0.023275
27-Jan-2031	0.024345	15.305100	24.251100	3.602380	53.051436	2.070940	0.022928	0.223266	0.053220	0.004350	0.002213	0.146728	0.000749	0.014739	0.008519	0.002345	0.023452
28-Jan-2031	0.024348	15.430000	24.449400	3.631650	53.483845	2.087920	0.023116	0.225095	0.053653	0.004385	0.002231	0.147909	0.000755	0.014859	0.008588	0.002364	0.023643
29-Jan-2031	0.024365	15.557000	24.651000	3.661420	53.923557	2.105170	0.023306	0.226952	0.054093	0.004421	0.002249	0.149112	0.000761	0.014981	0.008659	0.002384	0.023838
30-Jan-2031	0.024382	15.696800	24.872900	3.694190	54.407584	2.124150	0.023516	0.228997	0.054577	0.004461	0.002269	0.150437	0.000768	0.015115	0.008737	0.002405	0.024052
31-Jan-2031	0.024391	15.858100	25.128800	3.732010	54.966093	2.146050	0.023758	0.231356	0.055136	0.004507	0.002293	0.151966	0.000776	0.015270	0.008827	0.002430	0.024299
1-Feb-2031	0.024394	16.029600	25.401100	3.772250	55.560037	2.169340	0.024016	0.233864	0.055730	0.004555	0.002317	0.153593	0.000784	0.015435	0.008922	0.002456	0.024562
2-Feb-2031	0.024395	16.216400	25.697500	3.816060	56.206886	2.194700	0.024296	0.236596	0.056378	0.004608	0.002344	0.155366	0.000794	0.015614	0.009026	0.002485	0.024849
3-Feb-2031	0.024395	16.416900	26.015700	3.863110	56.901286	2.221900	0.024597	0.239527	0.057073	0.004665	0.002373	0.157271	0.000803	0.015807	0.009138	0.002516	0.025156
4-Feb-2031	0.024393	16.630100	26.353800	3.913160	57.639753	2.250820	0.024917	0.242642	0.057812	0.004726	0.002403	0.159299	0.000814	0.016012	0.009257	0.002548	0.025483
5-Feb-2031	0.024391	16.851800	26.705600	3.965230	58.407762	2.280890	0.025250	0.245882	0.058582	0.004788	0.002435	0.161411	0.000825	0.016225	0.009380	0.002582	0.025823
6-Feb-2031	0.024391	17.082700	27.071800	4.019490	59.207762	2.312190	0.025596	0.249255	0.059383	0.004854	0.002469	0.163613	0.000836	0.016447	0.009509	0.002618	0.026177
7-Feb-2031	0.024391	17.322800	27.452400	4.075910	60.039629	2.344720	0.025956	0.252761	0.060217	0.004922	0.002503	0.165905	0.000848	0.016678	0.009643	0.002654	0.026544
8-Feb-2031	0.024392	17.574100	27.850700	4.135010	60.910499	2.378750	0.026333	0.256429	0.061090	0.004994	0.002540	0.168307	0.000860	0.016920	0.009782	0.002693	0.026930
9-Feb-2031	0.024393	17.833400	28.261800	4.196010	61.809169	2.413860	0.026721	0.260214	0.061991	0.005067	0.002577	0.170789	0.000873	0.017170	0.009927	0.002733	0.027327
10-Feb-2031	0.024393	18.094800	28.675900	4.257500	62.715101	2.449230	0.027113	0.264027	0.062900	0.005142	0.002615	0.173292	0.000886	0.017421	0.010072	0.002773	0.027727
11-Feb-2031	0.024392	18.356900	29.091300	4.319180	63.623563	2.484700	0.027506	0.267851	0.063811	0.005216	0.002653	0.175803	0.000898	0.017674	0.010218	0.002813	0.028129
12-Feb-2031	0.024392	18.619300	29.507200	4.380940	64.533103	2.520230	0.027899	0.271680	0.064724	0.005291	0.002691	0.178318	0.000911	0.017927	0.010364	0.002853	0.028531
13-Feb-2031	0.024392	18.881600	29.922900	4.442680	65.442311	2.555730	0.028292	0.275507	0.065636	0.005365	0.002728	0.180831	0.000924	0.018179	0.010510	0.002893	0.028933
14-Feb-2031	0.024392	19.142600	30.336300	4.504090	66.346915	2.591030	0.028683	0.279314	0.066543	0.005439	0.002766	0.183333	0.000937	0.018430	0.010656	0.002933	0.029333
15-Feb-2031	0.024392	19.401300	30.746300	4.564990	67.243675	2.626040	0.029070	0.283088	0.067443	0.005513	0.002804	0.185814	0.000950	0.018680	0.010800	0.002973	0.029729
16-Feb-2031	0.024392	19.658800	31.154200	4.625600	68.136244	2.660880	0.029456	0.286844	0.068338	0.005586	0.002841	0.188283	0.000962	0.018928	0.010943	0.003012	0.030124
17-Feb-2031	0.024392	19.915400	31.560800	4.686010	69.025743	2.695590	0.029840	0.290587	0.069231	0.005659	0.002878	0.190744	0.000975	0.019175	0.011086	0.003052	0.030517
18-Feb-2031	0.024392	20.171600	31.966700	4.746320	69.913831	2.730260	0.030224	0.294324	0.070121	0.005732	0.002915	0.193201	0.000987	0.019421	0.011228	0.003091	0.030910

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
19-Feb-2031	0.024392	20.427300	32.371900	4.806520	70.800217	2.764860	0.030607	0.298054	0.071011	0.005804	0.002952	0.195653	0.001000	0.019668	0.011371	0.003130	0.031302
20-Feb-2031	0.024392	20.679100	32.770900	4.865760	71.672912	2.798930	0.030984	0.301727	0.071886	0.005876	0.002988	0.198066	0.001012	0.019910	0.011511	0.003169	0.031687
21-Feb-2031	0.024392	20.927500	33.164400	4.924210	72.533864	2.832540	0.031357	0.305351	0.072750	0.005947	0.003024	0.200445	0.001024	0.020149	0.011649	0.003207	0.032068
22-Feb-2031	0.024396	21.181000	33.566100	4.983900	73.412657	2.866840	0.031736	0.309048	0.073631	0.006019	0.003061	0.202878	0.001037	0.020393	0.011790	0.003246	0.032456
23-Feb-2031	0.024397	21.439500	33.975600	5.044790	74.308877	2.901800	0.032123	0.312818	0.074531	0.006092	0.003098	0.205361	0.001049	0.020643	0.011934	0.003285	0.032852
24-Feb-2031	0.024398	21.698400	34.385600	5.105760	75.206424	2.936800	0.032511	0.316592	0.075432	0.006166	0.003136	0.207848	0.001062	0.020892	0.012078	0.003325	0.033249
25-Feb-2031	0.024398	21.955600	34.793100	5.166330	76.098080	2.971590	0.032896	0.320343	0.076326	0.006239	0.003173	0.210317	0.001074	0.021140	0.012221	0.003364	0.033643
26-Feb-2031	0.024398	22.213100	35.201000	5.226960	76.990732	3.006410	0.033282	0.324098	0.077222	0.006312	0.003210	0.212789	0.001087	0.021388	0.012365	0.003404	0.034038
27-Feb-2031	0.024398	22.471000	35.609600	5.287680	77.884753	3.041300	0.033668	0.327859	0.078119	0.006385	0.003248	0.215264	0.001100	0.021636	0.012508	0.003443	0.034433
28-Feb-2031	0.024398	22.729500	36.019100	5.348550	78.780890	3.076260	0.034055	0.331628	0.079019	0.006459	0.003285	0.217746	0.001112	0.021885	0.012652	0.003483	0.034829
1-Mar-2031	0.024398	22.992000	36.434900	5.410380	79.690969	3.111760	0.034448	0.335456	0.079932	0.006534	0.003323	0.220267	0.001125	0.022138	0.012798	0.003523	0.035231
2-Mar-2031	0.024398	23.256300	36.853600	5.472610	80.607189	3.147500	0.034844	0.339310	0.080851	0.006609	0.003361	0.222804	0.001138	0.022393	0.012945	0.003564	0.035636
3-Mar-2031	0.024398	23.521300	37.273500	5.535000	81.525816	3.183360	0.035241	0.343176	0.081773	0.006684	0.003400	0.225346	0.001151	0.022648	0.013093	0.003604	0.036042
4-Mar-2031	0.024398	23.787600	37.695500	5.597700	82.448966	3.219390	0.035640	0.347061	0.082699	0.006760	0.003438	0.227901	0.001164	0.022904	0.013241	0.003645	0.036450
5-Mar-2031	0.024398	24.055600	38.120100	5.660780	83.377925	3.255650	0.036041	0.350969	0.083631	0.006836	0.003477	0.230470	0.001177	0.023162	0.013390	0.003686	0.036861
6-Mar-2031	0.024398	24.325400	38.547500	5.724290	84.313150	3.292150	0.036446	0.354905	0.084569	0.006913	0.003516	0.233057	0.001190	0.023422	0.013540	0.003727	0.037274
7-Mar-2031	0.024398	24.597400	38.978500	5.788310	85.255968	3.328950	0.036853	0.358873	0.085515	0.006990	0.003555	0.235666	0.001204	0.023684	0.013692	0.003769	0.037691
8-Mar-2031	0.024388	18.665400	29.578200	4.392440	64.695572	2.526110	0.027965	0.272324	0.064893	0.005304	0.002698	0.178838	0.000913	0.017973	0.010390	0.002860	0.028601
9-Mar-2031	0.024387	18.852800	29.875100	4.436530	65.345072	2.551470	0.028246	0.275058	0.065544	0.005358	0.002725	0.180633	0.000923	0.018153	0.010494	0.002889	0.028889
10-Mar-2031	0.024387	19.045600	30.180800	4.481900	66.013327	2.577570	0.028535	0.277872	0.066215	0.005412	0.002753	0.182480	0.000932	0.018339	0.010601	0.002918	0.029184
11-Mar-2031	0.024387	19.243900	30.494900	4.528550	66.700587	2.604400	0.028832	0.280764	0.066904	0.005469	0.002782	0.184379	0.000942	0.018530	0.010712	0.002949	0.029488
12-Mar-2031	0.024387	19.447600	30.817700	4.576480	67.406602	2.631970	0.029137	0.283736	0.067612	0.005527	0.002811	0.186330	0.000952	0.018726	0.010825	0.002980	0.029800
13-Mar-2031	0.024387	19.656700	31.149100	4.625680	68.131330	2.660270	0.029451	0.286787	0.068339	0.005586	0.002841	0.188332	0.000962	0.018927	0.010941	0.003012	0.030120
14-Mar-2031	0.024387	19.871200	31.489100	4.676170	68.874854	2.689310	0.029772	0.289918	0.069085	0.005647	0.002872	0.190388	0.000972	0.019134	0.011061	0.003045	0.030449
15-Mar-2031	0.024387	20.091600	31.838300	4.728030	69.638753	2.719140	0.030102	0.293133	0.069851	0.005710	0.002904	0.192499	0.000983	0.019346	0.011184	0.003079	0.030787
16-Mar-2031	0.024387	20.318400	32.197700	4.781380	70.424768	2.749830	0.030442	0.296441	0.070639	0.005774	0.002937	0.194671	0.000994	0.019564	0.011310	0.003113	0.031134
17-Mar-2031	0.024387	20.550700	32.565900	4.836060	71.229993	2.781280	0.030790	0.299832	0.071447	0.005840	0.002971	0.196897	0.001006	0.019788	0.011439	0.003149	0.031490
18-Mar-2031	0.024387	20.789400	32.944000	4.892210	72.057253	2.813570	0.031148	0.303313	0.072277	0.005908	0.003005	0.199183	0.001017	0.020018	0.011572	0.003186	0.031856
19-Mar-2031	0.024387	21.034200	33.332000	4.949830	72.905797	2.846710	0.031514	0.306885	0.073128	0.005977	0.003040	0.201529	0.001029	0.020253	0.011708	0.003223	0.032231
20-Mar-2031	0.024388	21.285600	33.730400	5.008980	73.777123	2.880730	0.031891	0.310553	0.074002	0.006049	0.003077	0.203937	0.001042	0.020495	0.011848	0.003262	0.032616
21-Mar-2031	0.024388	21.543500	34.139100	5.069680	74.671062	2.915640	0.032278	0.314316	0.074898	0.006122	0.003114	0.206408	0.001054	0.020744	0.011992	0.003301	0.033012
22-Mar-2031	0.024388	21.808200	34.558600	5.131970	75.588528	2.951460	0.032674	0.318178	0.075819	0.006197	0.003152	0.208944	0.001067	0.020999	0.012139	0.003342	0.033417
23-Mar-2031	0.024388	22.079600	34.988700	5.195840	76.529230	2.988200	0.033081	0.322138	0.076762	0.006274	0.003192	0.211545	0.001081	0.021260	0.012290	0.003383	0.033833
24-Mar-2031	0.024388	22.355000	35.425100	5.260650	77.483792	3.025470	0.033493	0.326156	0.077720	0.006353	0.003231	0.214184	0.001094	0.021525	0.012443	0.003426	0.034255
25-Mar-2031	0.024388	22.637500	35.872800	5.327140	78.463000	3.063700	0.033917	0.330278	0.078702	0.006433	0.003272	0.216891	0.001108	0.021797	0.012601	0.003469	0.034688
26-Mar-2031	0.024388	22.926900	36.331400	5.395240	79.466068	3.102870	0.034350	0.334500	0.079708	0.006515	0.003314	0.219663	0.001122	0.022076	0.012762	0.003513	0.035131
27-Mar-2031	0.024388	23.223600	36.801400	5.465040	80.494364	3.143010	0.034795	0.338828	0.080739	0.006600	0.003357	0.222505	0.001136	0.022361	0.012927	0.003559	0.035586
28-Mar-2031	0.024388	23.527600	37.283300	5.536590	81.548095	3.184170	0.035250	0.343264	0.081796	0.006686	0.003401	0.225418	0.001151	0.022654	0.013096	0.003605	0.036052
29-Mar-2031	0.024388	23.839300	37.777200	5.609930	82.628424	3.226350	0.035717	0.347812	0.082880	0.006775	0.003446	0.228404	0.001167	0.022954	0.013270	0.003653	0.036529
30-Mar-2031	0.024388	24.158600	38.283200	5.685080	83.735184	3.269570	0.036196	0.352471	0.083990	0.006865	0.003492	0.231464	0.001182	0.023262	0.013447	0.003702	0.037019
31-Mar-2031	0.024389	24.486100	38.802200	5.762140	84.870284	3.313890	0.036686	0.357249	0.085129	0.006958	0.003539	0.234601	0.001198	0.023577	0.013630	0.003752	0.037521
1-Apr-2031	0.024389	24.822000	39.334400	5.841180	86.034513	3.359350	0.037190	0.362149	0.086296	0.007054	0.003588	0.237819	0.001215	0.023900	0.013817	0.003804	0.038035
2-Apr-2031	0.024389	25.168500	39.883500	5.922720	87.235505	3.406240	0.037709	0.367204	0.087501	0.007152	0.003638	0.241139	0.001232	0.024234	0.014009	0.003857	0.038566
3-Apr-2031	0.024389	25.508300	40.422000	6.002680	88.413261	3.452230	0.038218	0.372162	0.088682	0.007249	0.003687	0.244394	0.001248	0.024561	0.014199	0.003909	0.039087
4-Apr-2031	0.024389	25.809400	40.899100	6.073530	89.456868	3.492970	0.038669	0.376555	0.089729	0.007334	0.003731	0.247279	0.001263	0.024851	0.014366	0.003955	0.039548
5-Apr-2031	0.024389	26.059300	41.295200	6.132350	90.323089	3.526800	0.039043	0.380202	0.090598	0.007405	0.003767	0.249673	0.001275	0.025092	0.014505	0.003993	0.039931
6-Apr-2031	0.024389	26.263500	41.618700	6.180400	91.030847	3.554440	0.039349	0.383181	0.091308	0.007463	0.003796	0.251630	0.001285	0.025288	0.014619	0.004024	0.040244
7-Apr-2031	0.024389	26.430000	41.882600	6.219580	91.607940	3.576970	0.039599	0.385610	0.091887	0.007511	0.003820	0.253225	0.001293	0.025449	0.014712	0.004050	0.040499
8-Apr-2031	0.024389	26.566300	42.098500	6.251650	92.080346	3.595410	0.039803	0.387598	0.092361	0.007549	0.003840	0.254531	0.001300	0.025580	0.014788	0.004071	0.040708
9-Apr-2031	0.024389	26.678500	42.276300	6.278050	92.469224	3.610600	0.039971	0.389235	0.092751	0.007581	0.003856	0.255606	0.001306	0.025688	0.014850	0.004088	0.040880
10-Apr-2031	0.024389	26.771200	42.423200	6.299860	92.790510	3.623140	0.040110	0.390587	0.093073	0.007608	0.003870	0.256494	0.001310	0.025777	0.014902	0.004102	0.041022
11-Apr-2031	0.024389	26.848000	42.544900	6.317940	93.056733	3.633540	0.040225	0.391708	0.093340	0.007629	0.003881	0.257230	0.001314	0.025851	0.014944	0.004114	0.041140
12-Apr-2031	0.024389	26.912000	42.646300	6.333000	93.278558	3.642200	0.040321	0.392641	0.093562	0.007648	0.003890	0.257843	0.001317	0.025913	0.014980	0.004124	0.041238

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
13-Apr-2031	0.024389	26.965500	42.731100	6.345600	93.464034	3.649440	0.040401	0.393422	0.093749	0.007663	0.003898	0.258356	0.001320	0.025964	0.015010	0.004132	0.041320
14-Apr-2031	0.024389	27.010400	42.802300	6.356160	93.619636	3.655510	0.040468	0.394077	0.093905	0.007676	0.003904	0.258787	0.001322	0.026008	0.015035	0.004139	0.041389
15-Apr-2031	0.024389	27.048200	42.862200	6.365060	93.750672	3.660630	0.040525	0.394629	0.094036	0.007686	0.003910	0.259149	0.001324	0.026044	0.015056	0.004145	0.041446
16-Apr-2031	0.024389	27.080100	42.912800	6.372580	93.861294	3.664950	0.040573	0.395095	0.094147	0.007695	0.003914	0.259455	0.001325	0.026075	0.015074	0.004150	0.041495
17-Apr-2031	0.024389	27.107200	42.955700	6.378960	93.955236	3.668620	0.040613	0.395490	0.094241	0.007703	0.003918	0.259715	0.001327	0.026101	0.015089	0.004154	0.041537
18-Apr-2031	0.024389	27.130300	42.992300	6.384400	94.035318	3.671740	0.040648	0.395827	0.094322	0.007710	0.003922	0.259937	0.001328	0.026123	0.015101	0.004157	0.041572
19-Apr-2031	0.024389	27.150200	43.023800	6.389070	94.104240	3.674430	0.040678	0.396117	0.094391	0.007715	0.003924	0.260127	0.001329	0.026142	0.015113	0.004160	0.041603
20-Apr-2031	0.024389	27.167300	43.050900	6.393110	94.163575	3.676750	0.040703	0.396367	0.094450	0.007720	0.003927	0.260291	0.001329	0.026159	0.015122	0.004163	0.041629
21-Apr-2031	0.024389	27.182200	43.074500	6.396610	94.215193	3.678760	0.040726	0.396584	0.094502	0.007724	0.003929	0.260434	0.001330	0.026173	0.015130	0.004165	0.041652
22-Apr-2031	0.024389	27.195200	43.095100	6.399670	94.260255	3.680520	0.040745	0.396773	0.094547	0.007728	0.003931	0.260559	0.001331	0.026186	0.015138	0.004167	0.041672
23-Apr-2031	0.024389	27.206700	43.113300	6.402380	94.300131	3.682080	0.040762	0.396941	0.094587	0.007731	0.003933	0.260669	0.001331	0.026197	0.015144	0.004169	0.041689
24-Apr-2031	0.024390	27.217000	43.129600	6.404790	94.335774	3.683460	0.040778	0.397090	0.094623	0.007734	0.003934	0.260768	0.001332	0.026207	0.015150	0.004171	0.041705
25-Apr-2031	0.024390	27.226100	43.144100	6.406950	94.367392	3.684700	0.040791	0.397224	0.094655	0.007737	0.003935	0.260856	0.001332	0.026215	0.015155	0.004172	0.041719
26-Apr-2031	0.024390	27.234400	43.157200	6.408910	94.396188	3.685830	0.040804	0.397345	0.094684	0.007739	0.003937	0.260936	0.001333	0.026223	0.015159	0.004173	0.041732
27-Apr-2031	0.024390	27.242000	43.169300	6.410690	94.422495	3.686850	0.040815	0.397456	0.094710	0.007741	0.003938	0.261008	0.001333	0.026231	0.015164	0.004174	0.041743
28-Apr-2031	0.024390	27.249000	43.180300	6.412330	94.446728	3.687790	0.040826	0.397557	0.094734	0.007743	0.003939	0.261075	0.001333	0.026237	0.015167	0.004175	0.041754
29-Apr-2031	0.024390	27.255400	43.190500	6.413850	94.468968	3.688670	0.040835	0.397652	0.094757	0.007745	0.003940	0.261137	0.001334	0.026244	0.015171	0.004176	0.041764
30-Apr-2031	0.024406	27.261500	43.200200	6.415290	94.490130	3.689490	0.040844	0.397740	0.094778	0.007747	0.003941	0.261196	0.001334	0.026249	0.015174	0.004177	0.041773
1-May-2031	0.024582	27.267000	43.208900	6.416580	94.509175	3.690230	0.040853	0.397821	0.094797	0.007749	0.003941	0.261249	0.001334	0.026255	0.015178	0.004178	0.041782
2-May-2031	0.025576	27.268200	43.210800	6.416870	94.513366	3.690400	0.040855	0.397838	0.094801	0.007749	0.003942	0.261260	0.001334	0.026256	0.015178	0.004178	0.041784
3-May-2031	0.029325	27.232200	43.153600	6.408380	94.388512	3.685510	0.040800	0.397312	0.094676	0.007739	0.003936	0.260915	0.001333	0.026221	0.015158	0.004173	0.041728
4-May-2031	0.033176	27.088100	42.925200	6.374480	93.889094	3.666010	0.040585	0.395209	0.094175	0.007698	0.003916	0.259535	0.001326	0.026082	0.015078	0.004151	0.041508
5-May-2031	0.037084	26.799900	42.468500	6.306670	92.890217	3.626990	0.040153	0.391004	0.093173	0.007616	0.003874	0.256775	0.001311	0.025805	0.014917	0.004107	0.041066
6-May-2031	0.041331	26.386600	41.813600	6.209420	91.457732	3.571070	0.039534	0.384974	0.091737	0.007498	0.003814	0.252816	0.001291	0.025407	0.014687	0.004043	0.040433
7-May-2031	0.045173	26.132400	41.410700	6.149610	90.576697	3.536650	0.039153	0.381264	0.090853	0.007426	0.003777	0.250383	0.001279	0.025162	0.014546	0.004004	0.040043
8-May-2031	0.049600	25.670500	40.678800	6.040890	88.975624	3.474150	0.038461	0.374526	0.089247	0.007295	0.003711	0.245954	0.001256	0.024718	0.014289	0.003934	0.039335
9-May-2031	0.053887	25.202100	39.936800	5.930630	87.351978	3.410790	0.037759	0.367695	0.087618	0.007162	0.003643	0.241461	0.001233	0.024266	0.014028	0.003862	0.038618
10-May-2031	0.062272	24.730700	39.190000	5.819630	85.717794	3.347030	0.037053	0.360821	0.085978	0.007028	0.003575	0.236936	0.001210	0.023812	0.013766	0.003790	0.037895
11-May-2031	0.068665	24.286900	38.486900	5.715110	84.179212	3.287010	0.036388	0.354349	0.084434	0.006902	0.003510	0.232674	0.001189	0.023385	0.013519	0.003722	0.037215
12-May-2031	0.073980	23.843300	37.784200	5.610650	82.641377	3.227020	0.035724	0.347880	0.082891	0.006775	0.003446	0.228415	0.001167	0.022958	0.013272	0.003654	0.036536
13-May-2031	0.078125	23.404500	37.089100	5.507320	81.120180	3.167670	0.035067	0.341482	0.081364	0.006651	0.003383	0.224202	0.001145	0.022535	0.013028	0.003586	0.035863
14-May-2031	0.082562	22.606200	35.825000	5.319130	78.351859	3.059790	0.033872	0.329847	0.078584	0.006424	0.003267	0.216515	0.001106	0.021765	0.012584	0.003464	0.034640
15-May-2031	0.086807	22.158600	35.116000	5.213730	76.800164	2.999270	0.033202	0.323322	0.077027	0.006296	0.003202	0.212217	0.001084	0.021334	0.012334	0.003395	0.033955
16-May-2031	0.092466	21.684400	34.364900	5.102030	75.156106	2.935150	0.032492	0.316408	0.075377	0.006161	0.003133	0.207660	0.001061	0.020877	0.012071	0.003323	0.033228
17-May-2031	0.103504	21.183700	33.571800	4.984060	73.420058	2.867460	0.031742	0.309108	0.073634	0.006019	0.003061	0.202846	0.001037	0.020395	0.011792	0.003246	0.032461
18-May-2031	0.122454	20.798700	32.962100	4.893390	72.085334	2.815410	0.031166	0.303496	0.072295	0.005910	0.003005	0.199148	0.001018	0.020024	0.011578	0.003187	0.031871
19-May-2031	0.126580	20.354600	32.258700	4.788770	70.545591	2.755370	0.030501	0.297022	0.070749	0.005783	0.002941	0.194879	0.000996	0.019596	0.011331	0.003119	0.031191
20-May-2031	0.133071	19.060700	30.208500	4.484210	66.060545	2.580290	0.028563	0.278147	0.066250	0.005415	0.002754	0.182473	0.000933	0.018350	0.010610	0.002921	0.029208
21-May-2031	0.140015	18.026600	28.570000	4.240760	62.475870	2.440380	0.027014	0.263063	0.062653	0.005121	0.002604	0.172554	0.000882	0.017354	0.010035	0.002762	0.027623
22-May-2031	0.145496	16.044300	25.435200	3.772220	55.596619	2.173210	0.024052	0.234230	0.055736	0.004556	0.002315	0.153304	0.000786	0.015441	0.008932	0.002459	0.024587
23-May-2031	0.152293	15.707300	24.900100	3.693280	54.430055	2.127380	0.023545	0.229292	0.054575	0.004460	0.002267	0.150105	0.000769	0.015117	0.008745	0.002407	0.024070
24-May-2031	0.149770	15.461200	24.509500	3.635500	53.577605	2.093970	0.023175	0.225692	0.053724	0.004390	0.002231	0.147759	0.000757	0.014881	0.008608	0.002369	0.023692
25-May-2031	0.155253	15.146500	24.010500	3.561590	52.487438	2.051300	0.022703	0.221093	0.052633	0.004301	0.002186	0.144757	0.000742	0.014578	0.008432	0.002321	0.023210
26-May-2031	0.161364	14.851400	23.542400	3.492280	51.465155	2.011280	0.022260	0.216780	0.051611	0.004217	0.002144	0.141942	0.000727	0.014295	0.008268	0.002276	0.022758
27-May-2031	0.165846	14.629200	23.189900	3.440120	50.695527	1.981120	0.021927	0.213531	0.050842	0.004154	0.002112	0.139825	0.000716	0.014081	0.008144	0.002242	0.022417
28-May-2031	0.168254	14.453000	22.910200	3.398780	50.085317	1.957190	0.021662	0.210952	0.050232	0.004104	0.002086	0.138147	0.000708	0.013912	0.008046	0.002215	0.022147
29-May-2031	0.172387	14.297900	22.664200	3.362380	49.548137	1.936140	0.021429	0.208684	0.049696	0.004059	0.002064	0.136670	0.000700	0.013763	0.007960	0.002191	0.021909
30-May-2031	0.179041	14.168400	22.458100	3.332130	49.100206	1.918440	0.021234	0.206778	0.049254	0.004022	0.002046	0.135446	0.000694	0.013639	0.007888	0.002171	0.021710
31-May-2031	0.191785	15.458100	24.505700	3.634450	53.565541	2.093770	0.023173	0.225668	0.053701	0.004390	0.002230	0.147707	0.000757	0.014877	0.008606	0.002369	0.023688
1-Jun-2031	0.210030	14.124500	22.390800	3.321130	48.945290	1.913000	0.021172	0.206186	0.049075	0.004011	0.002038	0.134983	0.000692	0.013594	0.007864	0.002164	0.021644
2-Jun-2031	0.227816	13.817400	21.903900	3.248940	47.881183	1.871390	0.020712	0.201701	0.048009	0.003924	0.001994	0.132050	0.000677	0.013299	0.007693	0.002117	0.021174
3-Jun-2031	0.249297	13.527400	21.441800	3.181480	46.879252	1.831590	0.020273	0.197419	0.047028	0.003840	0.001953	0.129329	0.000662	0.013022	0.007531	0.002073	0.020728
4-Jun-2031	0.306836	13.341500	21.146800	3.137830	46.235309	1.806360	0.019994	0.194702	0.046385	0.003788	0.001927	0.127557	0.000653	0.012844	0.007427	0.002044	0.020444

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
5-Jun-2031	0.432159	13.024200	20.631300	3.066960	45.151169	1.760730	0.019497	0.189837	0.045436	0.003693	0.001888	0.124778	0.000637	0.012553	0.007248	0.001996	0.019964
6-Jun-2031	0.489833	12.790100	20.251200	3.014590	44.350961	1.727110	0.019131	0.186251	0.044831	0.003624	0.001864	0.122742	0.000625	0.012339	0.007117	0.001961	0.019610
7-Jun-2031	0.557349	12.522700	19.807700	2.960020	43.458544	1.687950	0.018704	0.182069	0.044140	0.003543	0.001836	0.120735	0.000611	0.012115	0.006963	0.001921	0.019206
8-Jun-2031	0.615323	12.255900	19.368400	2.901810	42.552636	1.647100	0.018267	0.177762	0.043429	0.003461	0.001807	0.118532	0.000597	0.011877	0.006813	0.001880	0.018799
9-Jun-2031	0.609923	12.011000	18.957800	2.848980	41.723567	1.609160	0.017861	0.173753	0.042856	0.003384	0.001785	0.116608	0.000584	0.011661	0.006673	0.001843	0.018425
10-Jun-2031	0.606301	11.889300	18.758500	2.822020	41.308660	1.591350	0.017668	0.171855	0.042379	0.003348	0.001765	0.115424	0.000577	0.011550	0.006605	0.001824	0.018238
11-Jun-2031	0.625793	11.660500	18.372700	2.774950	40.543513	1.555530	0.017285	0.168080	0.041865	0.003276	0.001744	0.113718	0.000565	0.011358	0.006473	0.001789	0.017889
12-Jun-2031	0.685061	11.345400	17.830900	2.713090	39.501968	1.504050	0.016741	0.162680	0.041328	0.003175	0.001722	0.111627	0.000547	0.011107	0.006291	0.001741	0.017409
13-Jun-2031	0.796553	11.104300	17.425300	2.663380	38.695236	1.466510	0.016340	0.158724	0.041034	0.003100	0.001703	0.110018	0.000534	0.010907	0.006154	0.001704	0.017042
14-Jun-2031	0.966389	10.915700	17.098900	2.627150	38.075107	1.435460	0.016013	0.155474	0.040683	0.003042	0.001689	0.108889	0.000524	0.010762	0.006045	0.001676	0.016756
15-Jun-2031	1.203709	10.751900	16.818000	2.593400	37.527116	1.409130	0.015735	0.152711	0.040488	0.002992	0.001673	0.107667	0.000515	0.010625	0.005951	0.001651	0.016508
16-Jun-2031	1.488135	10.650600	16.650300	2.571340	37.183326	1.394110	0.015574	0.151126	0.040217	0.002964	0.001662	0.106922	0.000509	0.010537	0.005894	0.001635	0.016355
17-Jun-2031	1.741085	10.474600	16.346900	2.536500	36.600383	1.365410	0.015271	0.148122	0.039993	0.002910	0.001649	0.105839	0.000499	0.010398	0.005793	0.001609	0.016089
18-Jun-2031	1.936289	10.303700	16.052900	2.502390	36.033181	1.337740	0.014979	0.145232	0.039778	0.002859	0.001635	0.104802	0.000490	0.010263	0.005695	0.001583	0.015830
19-Jun-2031	2.051048	10.108800	15.714100	2.464380	35.389990	1.305460	0.014641	0.141868	0.039656	0.002799	0.001622	0.103697	0.000479	0.010112	0.005582	0.001554	0.015536
20-Jun-2031	2.117889	9.971600	15.478500	2.436740	34.933581	1.283420	0.014409	0.139574	0.039617	0.002759	0.001611	0.102879	0.000471	0.010003	0.005504	0.001533	0.015329
21-Jun-2031	2.192006	9.843090	15.256300	2.411200	34.507517	1.262500	0.014190	0.137404	0.039637	0.002721	0.001601	0.102152	0.000464	0.009903	0.005430	0.001514	0.015136
22-Jun-2031	2.272213	9.689970	14.990400	2.381180	34.001554	1.237280	0.013926	0.134787	0.039640	0.002675	0.001590	0.101297	0.000455	0.009785	0.005342	0.001491	0.014906
23-Jun-2031	2.346784	9.554740	14.757300	2.354280	33.553111	1.215270	0.013695	0.132492	0.039556	0.002634	0.001580	0.100481	0.000448	0.009678	0.005265	0.001470	0.014702
24-Jun-2031	2.410424	9.407680	14.502100	2.325520	33.067468	1.190980	0.013440	0.129964	0.039475	0.002590	0.001570	0.099629	0.000440	0.009564	0.005180	0.001448	0.014480
25-Jun-2031	2.479073	9.231340	14.194100	2.291510	32.487094	1.161490	0.013132	0.126902	0.039405	0.002536	0.001558	0.098930	0.000430	0.009430	0.005078	0.001421	0.014215
26-Jun-2031	2.569464	9.107940	13.979300	2.267490	32.080050	1.141040	0.012919	0.124787	0.039299	0.002498	0.001550	0.098789	0.000423	0.009336	0.005007	0.001403	0.014030
27-Jun-2031	2.700294	8.981690	13.758500	2.243120	31.664448	1.119900	0.012699	0.122593	0.039123	0.002460	0.001541	0.097662	0.000415	0.009240	0.004934	0.001384	0.013840
28-Jun-2031	2.887924	8.828160	13.488400	2.213770	31.160220	1.093940	0.012428	0.119903	0.038959	0.002415	0.001536	0.097355	0.000406	0.009126	0.004846	0.001361	0.013607
29-Jun-2031	3.108058	8.720050	13.303300	2.191940	30.800374	1.076610	0.012246	0.118101	0.038713	0.002382	0.001531	0.097090	0.000400	0.009039	0.004784	0.001345	0.013445
30-Jun-2031	3.331529	8.568550	13.040700	2.162040	30.298950	1.051750	0.011986	0.115518	0.038499	0.002337	0.001523	0.097047	0.000392	0.008922	0.004697	0.001322	0.013217
1-Jul-2031	4.805644	6.927470	10.145100	1.849180	24.912816	0.773941	0.009103	0.086819	0.034341	0.001866	0.001412	0.094801	0.000297	0.007708	0.003751	0.001075	0.010755
2-Jul-2031	5.747379	7.073010	10.486300	1.849690	25.278329	0.815146	0.009489	0.090820	0.033901	0.001907	0.001394	0.092189	0.000310	0.007739	0.003851	0.001100	0.010998
3-Jul-2031	6.486394	7.062020	10.444800	1.851300	25.257517	0.809679	0.009439	0.090285	0.033912	0.001912	0.001392	0.091335	0.000308	0.007761	0.003844	0.001097	0.010973
4-Jul-2031	7.392207	7.172030	10.630300	1.869510	25.607201	0.827855	0.009625	0.092129	0.034156	0.001957	0.001393	0.092819	0.000314	0.007865	0.003912	0.001113	0.011132
5-Jul-2031	7.996266	7.199200	10.669700	1.876120	25.702265	0.831362	0.009664	0.092507	0.034186	0.001974	0.001395	0.092339	0.000316	0.007894	0.003928	0.001117	0.011165
6-Jul-2031	8.164573	7.260370	10.774100	1.885990	25.895651	0.841817	0.009771	0.093577	0.034307	0.002000	0.001398	0.091017	0.000319	0.007949	0.003965	0.001125	0.011254
7-Jul-2031	8.441511	7.229940	10.722800	1.882290	25.804430	0.836474	0.009717	0.093032	0.034195	0.001985	0.001397	0.089596	0.000317	0.007916	0.003945	0.001121	0.011209
8-Jul-2031	8.680331	7.222850	10.712800	1.882380	25.787097	0.835306	0.009704	0.092900	0.034103	0.001980	0.001397	0.090142	0.000317	0.007901	0.003939	0.001120	0.011198
9-Jul-2031	10.019161	7.215360	10.695400	1.881940	25.766583	0.833544	0.009688	0.092739	0.034083	0.001982	0.001398	0.090617	0.000316	0.007898	0.003934	0.001118	0.011183
10-Jul-2031	11.548007	7.353740	10.937900	1.903310	26.200119	0.857988	0.009937	0.095228	0.034346	0.002037	0.001401	0.090127	0.000325	0.008016	0.004020	0.001139	0.011388
11-Jul-2031	12.628164	7.401370	11.025700	1.910920	26.350389	0.866758	0.010024	0.096102	0.034389	0.002051	0.001402	0.090474	0.000328	0.008049	0.004048	0.001146	0.011459
12-Jul-2031	12.311093	7.396970	11.020900	1.910920	26.339403	0.866201	0.010017	0.096030	0.034317	0.002046	0.001402	0.090621	0.000327	0.008037	0.004044	0.001145	0.011453
13-Jul-2031	12.037387	7.400700	11.028300	1.912000	26.353164	0.866965	0.010024	0.096103	0.034270	0.002048	0.001402	0.090697	0.000328	0.008035	0.004046	0.001146	0.011457
14-Jul-2031	13.006799	7.534780	11.267400	1.932630	26.772916	0.890994	0.010267	0.098533	0.034511	0.002096	0.001405	0.091604	0.000336	0.008145	0.004128	0.001166	0.011658
15-Jul-2031	14.132046	7.412160	11.047700	1.914400	26.391663	0.868829	0.010044	0.096295	0.034273	0.002053	0.001403	0.090882	0.000328	0.008044	0.004052	0.001147	0.011473
16-Jul-2031	15.501005	8.067530	12.245900	2.013880	28.437780	0.989234	0.011245	0.108315	0.035217	0.002251	0.001416	0.091491	0.000368	0.008533	0.004451	0.001247	0.012466
17-Jul-2031	14.864003	7.888870	11.919300	1.987420	27.882704	0.956332	0.010917	0.105029	0.034933	0.002197	0.001412	0.091011	0.000357	0.008397	0.004341	0.001219	0.012195
18-Jul-2031	14.297936	7.819750	11.794300	1.977950	27.671114	0.943720	0.010790	0.103760	0.034757	0.002176	0.001411	0.090795	0.000353	0.008337	0.004298	0.001209	0.012088
19-Jul-2031	14.916283	7.884240	11.912300	1.987860	27.872955	0.955587	0.010909	0.104943	0.034837	0.002196	0.001412	0.090975	0.000357	0.008384	0.004337	0.001219	0.012185
20-Jul-2031	14.730226	7.914270	11.967900	1.993900	27.972812	0.961127	0.010963	0.105484	0.034793	0.002206	0.001413	0.091130	0.000359	0.008398	0.004353	0.001223	0.012227
21-Jul-2031	14.484721	7.905560	11.952700	1.992660	27.945957	0.959506	0.010947	0.105320	0.034766	0.002202	0.001413	0.091483	0.000359	0.008390	0.004348	0.001221	0.012214
22-Jul-2031	14.928872	8.128010	12.359000	2.026550	28.640974	1.000340	0.011355	0.109400	0.035079	0.002270	0.001417	0.091648	0.000372	0.008556	0.004483	0.001255	0.012551
23-Jul-2031	15.480318	8.101710	12.311300	2.023370	28.562208	0.995489	0.011306	0.108915	0.034996	0.002262	0.001417	0.091573	0.000371	0.008532	0.004466	0.001251	0.012510
24-Jul-2031	15.833414	8.027540	12.176400	2.013760	28.337431	0.981804	0.011169	0.107534	0.034794	0.002241	0.001415	0.091795	0.000366	0.008467	0.004419	0.001239	0.012394
25-Jul-2031	16.270257	8.099060	12.306900	2.024950	28.562097	0.994895	0.011300	0.108842	0.034878	0.002263	0.001417	0.092067	0.000370	0.008519	0.004462	0.001250	0.012502
26-Jul-2031	17.092112	8.314710	12.700900	2.057950	29.236469	1.034450	0.011695	0.112790	0.035177	0.002328	0.001421	0.092217	0.000384	0.008679	0.004593	0.001283	0.012828
27-Jul-2031	17.571416	8.156800	12.414500	2.034780	28.746754	1.005620	0.011406	0.109899	0.034880	0.002279	0.001418	0.092012	0.000374	0.008553	0.004496	0.001259	0.012588

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
28-Jul-2031	15.926587	8.308290	12.689900	2.058070	29.220932	1.033290	0.011683	0.112666	0.035093	0.002327	0.001421	0.092231	0.000383	0.008667	0.004588	0.001282	0.012816
29-Jul-2031	15.326436	8.374780	12.811100	2.068340	29.429250	1.045470	0.011804	0.113884	0.035179	0.002348	0.001422	0.092428	0.000387	0.008716	0.004628	0.001292	0.012916
30-Jul-2031	15.271072	8.495180	13.031700	2.087200	29.807554	1.067570	0.012025	0.116085	0.035316	0.002384	0.001425	0.092735	0.000395	0.008803	0.004700	0.001310	0.013098
31-Jul-2031	15.011616	8.361180	12.788800	2.068430	29.395661	1.043050	0.011779	0.113621	0.035018	0.002343	0.001422	0.092628	0.000387	0.008691	0.004617	0.001289	0.012891
1-Aug-2031	14.439071	8.354350	12.777000	2.067640	29.375353	1.041850	0.011767	0.113499	0.034983	0.002340	0.001422	0.092614	0.000386	0.008683	0.004612	0.001288	0.012881
2-Aug-2031	13.488272	8.376500	12.818600	2.071840	29.447958	1.045980	0.011807	0.113896	0.034977	0.002347	0.001422	0.092879	0.000388	0.008694	0.004625	0.001291	0.012913
3-Aug-2031	12.406792	8.515840	13.073400	2.093300	29.884262	1.071570	0.012062	0.116451	0.035131	0.002389	0.001425	0.092846	0.000396	0.008796	0.004709	0.001312	0.013124
4-Aug-2031	11.536355	8.536890	13.110900	2.097280	29.953213	1.075260	0.012099	0.116818	0.035133	0.002397	0.001426	0.092838	0.000397	0.008809	0.004721	0.001315	0.013154
5-Aug-2031	12.088808	8.561330	13.157000	2.102690	30.036518	1.079670	0.012141	0.117233	0.035073	0.002403	0.001427	0.093154	0.000399	0.008817	0.004734	0.001319	0.013188
6-Aug-2031	12.787122	8.674970	13.362500	2.121190	30.396461	1.100190	0.012346	0.119281	0.035204	0.002441	0.001430	0.093323	0.000406	0.008900	0.004802	0.001336	0.013357
7-Aug-2031	12.477307	8.705330	13.418300	2.126060	30.492324	1.105710	0.012401	0.119830	0.035240	0.002449	0.001430	0.093481	0.000408	0.008922	0.004820	0.001340	0.013404
8-Aug-2031	12.851663	8.695400	13.399900	2.125070	30.463452	1.103750	0.012382	0.119632	0.035215	0.002445	0.001431	0.093332	0.000407	0.008913	0.004813	0.001339	0.013389
9-Aug-2031	12.220497	8.891930	13.760800	2.156180	31.082298	1.139880	0.012740	0.123217	0.035410	0.002504	0.001435	0.093816	0.000419	0.009051	0.004931	0.001369	0.013685
10-Aug-2031	11.481351	8.821670	13.633600	2.146680	30.867738	1.126960	0.012610	0.121911	0.035242	0.002482	0.001433	0.093768	0.000415	0.008991	0.004887	0.001358	0.013578
11-Aug-2031	10.750755	8.770170	13.539200	2.139880	30.711140	1.117370	0.012514	0.120942	0.035119	0.002467	0.001433	0.093473	0.000412	0.008948	0.004854	0.001350	0.013498
12-Aug-2031	10.644878	8.806660	13.606600	2.146510	30.829558	1.123970	0.012579	0.121587	0.035117	0.002477	0.001434	0.093961	0.000414	0.008969	0.004875	0.001355	0.013551
13-Aug-2031	10.910568	9.032410	14.018000	2.182550	31.541669	1.165090	0.012988	0.125678	0.035380	0.002547	0.001439	0.094264	0.000428	0.009132	0.005011	0.001389	0.013891
14-Aug-2031	10.942750	8.876630	13.733400	2.159560	31.058013	1.136440	0.012702	0.122807	0.035119	0.002500	0.001436	0.094222	0.000418	0.009012	0.004915	0.001365	0.013653
15-Aug-2031	10.091129	8.933410	13.836600	2.168750	31.237637	1.146730	0.012804	0.123831	0.035173	0.002518	0.001437	0.094052	0.000422	0.009052	0.004949	0.001374	0.013738
16-Aug-2031	10.259497	8.927100	13.825600	2.169540	31.225134	1.145430	0.012789	0.123675	0.035072	0.002517	0.001438	0.094474	0.000421	0.009038	0.004943	0.001373	0.013725
17-Aug-2031	10.886114	9.015850	13.986000	2.184210	31.507154	1.161410	0.012948	0.125261	0.035156	0.002546	0.001440	0.094793	0.000427	0.009102	0.004996	0.001386	0.013856
18-Aug-2031	10.561707	9.032950	14.017200	2.187530	31.563525	1.164430	0.012978	0.125556	0.035150	0.002551	0.001441	0.094577	0.000428	0.009112	0.005006	0.001388	0.013882
19-Aug-2031	10.291994	9.042110	14.035200	2.190160	31.597228	1.166060	0.012993	0.125699	0.035100	0.002553	0.001441	0.094648	0.000428	0.009111	0.005010	0.001389	0.013894
20-Aug-2031	9.978833	9.140100	14.214200	2.205780	31.906232	1.183940	0.013170	0.127475	0.035205	0.002582	0.001443	0.095007	0.000434	0.009181	0.005069	0.001404	0.014042
21-Aug-2031	9.775701	9.158150	14.247000	2.209380	31.966127	1.187120	0.013201	0.127783	0.035195	0.002588	0.001444	0.094815	0.000435	0.009191	0.005079	0.001407	0.014068
22-Aug-2031	8.776646	9.212870	14.346600	2.218550	32.140525	1.197020	0.013300	0.128762	0.035239	0.002605	0.001445	0.095005	0.000439	0.009229	0.005111	0.001415	0.014150
23-Aug-2031	8.210809	9.249630	14.414500	2.224990	32.258835	1.203710	0.013365	0.129418	0.035251	0.002615	0.001446	0.095059	0.000441	0.009251	0.005132	0.001420	0.014205
24-Aug-2031	8.148502	9.338770	14.577300	2.238960	32.538946	1.220000	0.013528	0.131038	0.035358	0.002642	0.001448	0.095309	0.000446	0.009316	0.005186	0.001434	0.014339
25-Aug-2031	8.489969	9.405100	14.698300	2.250190	32.750817	1.231960	0.013647	0.132226	0.035427	0.002662	0.001450	0.095497	0.000450	0.009362	0.005225	0.001444	0.014439
26-Aug-2031	8.781267	9.548420	14.960000	2.271980	33.198418	1.258240	0.013908	0.134845	0.035623	0.002706	0.001453	0.095904	0.000459	0.009469	0.005312	0.001466	0.014656
27-Aug-2031	9.142879	9.313560	14.529300	2.240130	32.480815	1.214550	0.013469	0.130430	0.035128	0.002638	0.001449	0.095709	0.000445	0.009277	0.005165	0.001429	0.014291
28-Aug-2031	9.254872	9.693630	15.223900	2.297840	33.667499	1.284310	0.014165	0.137395	0.035660	0.002753	0.001457	0.096494	0.000468	0.009561	0.005396	0.001487	0.014868
29-Aug-2031	9.099851	9.454630	14.789200	2.262180	32.923868	1.240530	0.013727	0.133014	0.035264	0.002678	0.001452	0.095928	0.000453	0.009376	0.005250	0.001451	0.014506
30-Aug-2031	9.314224	9.478500	14.832100	2.266230	33.000150	1.244770	0.013770	0.133438	0.035302	0.002686	0.001453	0.095813	0.000455	0.009395	0.005264	0.001454	0.014542
31-Aug-2031	9.823150	9.655760	15.156000	2.293860	33.556548	1.277200	0.014092	0.136664	0.035515	0.002739	0.001457	0.096309	0.000466	0.009523	0.005371	0.001481	0.014809
1-Sep-2031	10.283840	9.859510	15.526800	2.326490	34.199682	1.314210	0.014461	0.140341	0.035764	0.002803	0.001462	0.096977	0.000478	0.009671	0.005493	0.001512	0.015116
2-Sep-2031	10.175014	9.947300	15.688000	2.340010	34.474569	1.330370	0.014621	0.141948	0.035864	0.002829	0.001464	0.097179	0.000483	0.009734	0.005546	0.001525	0.015248
3-Sep-2031	9.312180	9.789770	15.400800	2.316770	33.985515	1.301460	0.014332	0.139051	0.035593	0.002781	0.001461	0.096736	0.000474	0.009612	0.005450	0.001501	0.015008
4-Sep-2031	8.781386	9.690910	15.221800	2.302250	33.678868	1.283520	0.014151	0.137242	0.035384	0.002751	0.001458	0.096583	0.000468	0.009532	0.005389	0.001486	0.014856
5-Sep-2031	7.599745	9.757920	15.343900	2.312740	33.889390	1.295780	0.014273	0.138462	0.035461	0.002773	0.001459	0.096684	0.000472	0.009582	0.005430	0.001496	0.014957
6-Sep-2031	7.555836	9.764280	15.356600	2.313860	33.909883	1.297040	0.014285	0.138583	0.035448	0.002774	0.001459	0.096925	0.000472	0.009584	0.005433	0.001497	0.014966
7-Sep-2031	7.648554	10.004200	15.793300	2.351230	34.662853	1.340940	0.014722	0.142948	0.035739	0.002852	0.001464	0.097529	0.000487	0.009761	0.005579	0.001533	0.015325
8-Sep-2031	7.284557	9.941390	15.679600	2.341500	34.465948	1.329520	0.014608	0.141811	0.035650	0.002831	0.001463	0.097273	0.000483	0.009713	0.005540	0.001523	0.015231
9-Sep-2031	6.951312	9.903380	15.612000	2.336100	34.348800	1.322710	0.014539	0.141119	0.035553	0.002819	0.001462	0.097086	0.000481	0.009680	0.005517	0.001517	0.015173
10-Sep-2031	6.286926	9.955450	15.707400	2.344230	34.512298	1.332330	0.014634	0.142074	0.035605	0.002835	0.001462	0.097257	0.000484	0.009717	0.005548	0.001525	0.015251
11-Sep-2031	5.454274	9.998410	15.786100	2.351060	34.647695	1.340190	0.014712	0.142855	0.035651	0.002848	0.001463	0.097363	0.000487	0.009748	0.005574	0.001532	0.015316
12-Sep-2031	4.986435	10.044500	15.871600	2.357840	34.790702	1.348850	0.014798	0.143720	0.035710	0.002861	0.001464	0.097437	0.000490	0.009781	0.005602	0.001539	0.015386
13-Sep-2031	4.706528	10.181400	16.122300	2.378830	35.218978	1.374040	0.015049	0.146229	0.035886	0.002903	0.001467	0.097808	0.000498	0.009881	0.005685	0.001559	0.015593
14-Sep-2031	3.994724	10.125300	16.020700	2.370500	35.044593	1.363880	0.014947	0.145208	0.035779	0.002886	0.001465	0.097646	0.000495	0.009837	0.005650	0.001551	0.015507
15-Sep-2031	3.563046	10.179900	16.121400	2.378610	35.214326	1.374050	0.015049	0.146226	0.035858	0.002902	0.001466	0.097760	0.000498	0.009877	0.005684	0.001559	0.015590
16-Sep-2031	3.693525	10.171000	16.107200	2.376590	35.183785	1.372820	0.015035	0.146093	0.035821	0.002900	0.001465	0.097716	0.000498	0.009868	0.005679	0.001558	0.015576
17-Sep-2031	3.445733	10.275100	16.298200	2.393010	35.511340	1.392010	0.015225	0.147999	0.035922	0.002932	0.001467	0.098052	0.000504	0.009942	0.005741	0.001573	0.015732
18-Sep-2031	2.818402	10.345800	16.428400	2.403300	35.730252	1.405240	0.015357	0.149320	0.036018	0.002955	0.001468	0.098189	0.000508	0.009994	0.005785	0.001584	0.015839

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
19-Sep-2031	2.508447	10.468100	16.651700	2.421830	36.111942	1.427660	0.015581	0.151565	0.036207	0.002991	0.001470	0.098509	0.000516	0.010087	0.005859	0.001603	0.016025
20-Sep-2031	2.438471	10.388100	16.502900	2.411290	35.868778	1.412950	0.015432	0.150064	0.036002	0.002979	0.001468	0.098742	0.000511	0.010022	0.005810	0.001590	0.015895
21-Sep-2031	2.234400	10.343700	16.426300	2.404040	35.728056	1.405010	0.015353	0.149276	0.035928	0.002955	0.001467	0.098485	0.000508	0.009985	0.005782	0.001583	0.015833
22-Sep-2031	2.289854	10.541300	16.783100	2.437110	36.357645	1.440330	0.015703	0.152764	0.036117	0.003017	0.001473	0.098935	0.000520	0.010127	0.005899	0.001613	0.016126
23-Sep-2031	2.119002	10.545000	16.792800	2.435680	36.360995	1.441640	0.015718	0.152927	0.036193	0.003016	0.001472	0.098775	0.000520	0.010134	0.005904	0.001614	0.016136
24-Sep-2031	2.047040	10.575600	16.849300	2.440710	36.458117	1.447280	0.015774	0.153482	0.036207	0.003025	0.001472	0.098840	0.000522	0.010153	0.005922	0.001618	0.016182
25-Sep-2031	2.067980	10.601100	16.897000	2.444740	36.538386	1.452090	0.015821	0.153963	0.036233	0.003032	0.001472	0.098871	0.000524	0.010170	0.005937	0.001622	0.016221
26-Sep-2031	2.138825	11.049300	17.715600	2.512800	37.937813	1.534300	0.016641	0.162169	0.036877	0.003168	0.001481	0.100129	0.000551	0.010507	0.006209	0.001690	0.016899
27-Sep-2031	2.047883	10.750800	17.171600	2.467510	37.005954	1.479730	0.016096	0.156715	0.036423	0.003078	0.001475	0.099266	0.000533	0.010280	0.006028	0.001645	0.016447
28-Sep-2031	2.130018	10.787700	17.239500	2.472970	37.120577	1.486540	0.016165	0.157409	0.036499	0.003088	0.001476	0.099317	0.000535	0.010308	0.006050	0.001650	0.016505
29-Sep-2031	1.879199	10.780600	17.228300	2.472150	37.099472	1.485510	0.016153	0.157285	0.036433	0.003086	0.001475	0.099277	0.000535	0.010298	0.006045	0.001649	0.016492
30-Sep-2031	1.637341	10.781100	17.230000	2.472260	37.101173	1.485690	0.016155	0.157302	0.036420	0.003086	0.001475	0.099240	0.000535	0.010296	0.006046	0.001649	0.016492
1-Oct-2031	1.437618	10.988600	17.609100	2.504040	37.750171	1.523720	0.016534	0.161099	0.036713	0.003148	0.001479	0.099805	0.000548	0.010451	0.006171	0.001681	0.016807
2-Oct-2031	1.167909	10.782800	17.233200	2.472950	37.108260	1.485940	0.016157	0.157322	0.036402	0.003086	0.001475	0.099243	0.000535	0.010296	0.006046	0.001649	0.016494
3-Oct-2031	1.035469	10.764200	17.200400	2.469960	37.049503	1.482750	0.016124	0.156996	0.036356	0.003081	0.001474	0.099164	0.000534	0.010280	0.006035	0.001647	0.016466
4-Oct-2031	0.476156	10.722800	17.125300	2.463270	36.918577	1.475300	0.016050	0.156257	0.036304	0.003068	0.001473	0.099041	0.000532	0.010250	0.006010	0.001640	0.016403
5-Oct-2031	0.094791	10.700300	17.084700	2.459600	36.847282	1.471290	0.016010	0.155858	0.036276	0.003062	0.001472	0.098967	0.000530	0.010233	0.005997	0.001637	0.016370
6-Oct-2031	0.076708	10.685300	17.057900	2.456990	36.799079	1.468670	0.015984	0.155597	0.036259	0.003057	0.001472	0.098910	0.000529	0.010222	0.005988	0.001635	0.016347
7-Oct-2031	0.024963	10.671600	17.033200	2.454740	36.755605	1.466250	0.015959	0.155355	0.036233	0.003053	0.001471	0.098861	0.000529	0.010211	0.005980	0.001633	0.016327
8-Oct-2031	0.020337	10.637900	16.972400	2.449270	36.648930	1.460310	0.015899	0.154757	0.036176	0.003045	0.001470	0.098795	0.000527	0.010185	0.005960	0.001627	0.016274
9-Oct-2031	0.119130	10.627200	16.953200	2.447420	36.614594	1.458420	0.015881	0.154571	0.036157	0.003041	0.001469	0.098742	0.000526	0.010177	0.005953	0.001626	0.016259
10-Oct-2031	0.026659	10.610600	16.924000	2.444420	36.560790	1.455620	0.015852	0.154289	0.036128	0.003036	0.001468	0.098660	0.000525	0.010164	0.005943	0.001623	0.016234
11-Oct-2031	0.018063	10.582300	16.873500	2.439560	36.470111	1.450690	0.015803	0.153799	0.036095	0.003027	0.001467	0.098651	0.000523	0.010143	0.005927	0.001619	0.016192
12-Oct-2031	0.039487	10.571800	16.854500	2.437810	36.436686	1.448800	0.015784	0.153612	0.036080	0.003024	0.001467	0.098647	0.000523	0.010135	0.005920	0.001618	0.016176
13-Oct-2031	0.023668	10.548500	16.812900	2.433850	36.362199	1.444800	0.015743	0.153209	0.036041	0.003017	0.001466	0.098531	0.000521	0.010118	0.005907	0.001614	0.016141
14-Oct-2031	0.018086	10.535400	16.789800	2.431490	36.319770	1.442530	0.015721	0.152984	0.036020	0.003013	0.001465	0.098444	0.000521	0.010107	0.005899	0.001612	0.016121
15-Oct-2031	0.020187	10.528800	16.778200	2.430410	36.298842	1.441420	0.015709	0.152872	0.036011	0.003011	0.001465	0.098400	0.000520	0.010102	0.005895	0.001611	0.016111
16-Oct-2031	0.020067	10.523300	16.767800	2.429570	36.281649	1.440400	0.015699	0.152769	0.036004	0.003010	0.001465	0.098381	0.000520	0.010099	0.005892	0.001610	0.016103
17-Oct-2031	0.019660	10.529200	16.777700	2.430850	36.301653	1.441240	0.015708	0.152860	0.036034	0.003011	0.001466	0.098593	0.000520	0.010104	0.005895	0.001611	0.016112
18-Oct-2031	0.019558	10.611900	16.909200	2.449920	36.586685	1.452520	0.015831	0.154058	0.036304	0.003035	0.001477	0.099480	0.000524	0.010183	0.005941	0.001624	0.016238
19-Oct-2031	0.019473	10.704600	17.056900	2.471310	36.906241	1.465210	0.015970	0.155403	0.036621	0.003062	0.001490	0.100559	0.000529	0.010272	0.005993	0.001638	0.016380
20-Oct-2031	0.019880	10.658300	16.982500	2.462290	36.753485	1.458760	0.015900	0.154722	0.036516	0.003048	0.001490	0.101638	0.000527	0.010233	0.005967	0.001631	0.016310
21-Oct-2031	0.020214	10.683700	17.021300	2.468050	36.840629	1.462100	0.015936	0.155072	0.036600	0.003055	0.001504	0.102651	0.000528	0.010257	0.005981	0.001635	0.016349
22-Oct-2031	0.020354	10.727000	17.092500	2.476550	36.983752	1.468250	0.016003	0.155726	0.036699	0.003068	0.001519	0.103661	0.000530	0.010294	0.006006	0.001641	0.016414
23-Oct-2031	0.019654	10.722200	17.082600	2.481160	36.990750	1.467170	0.015993	0.155623	0.036723	0.003067	0.001533	0.104606	0.000530	0.010293	0.006003	0.001641	0.016408
24-Oct-2031	0.019545	10.770400	17.157800	2.498130	37.180988	1.473450	0.016063	0.156299	0.036951	0.003080	0.001540	0.104968	0.000532	0.010339	0.006029	0.001648	0.016481
25-Oct-2031	0.019562	10.800600	17.206600	2.514080	37.322080	1.477710	0.016109	0.156748	0.037197	0.003098	0.001547	0.105356	0.000533	0.010368	0.006046	0.001653	0.016527
26-Oct-2031	0.019580	10.839000	17.268400	2.530640	37.486159	1.483090	0.016167	0.157313	0.037451	0.003119	0.001556	0.105808	0.000535	0.010443	0.006068	0.001659	0.016586
27-Oct-2031	0.019841	10.889700	17.347800	2.547880	37.683751	1.489760	0.016240	0.158029	0.037713	0.003141	0.001565	0.106350	0.000538	0.010518	0.006096	0.001666	0.016664
28-Oct-2031	0.020205	10.942100	17.430300	2.565790	37.888347	1.496800	0.016317	0.158778	0.037982	0.003164	0.001574	0.106950	0.000540	0.010595	0.006125	0.001674	0.016743
29-Oct-2031	0.020752	11.033400	17.464100	2.585240	38.196418	1.499100	0.016343	0.159024	0.038273	0.003189	0.001585	0.107610	0.000541	0.010679	0.006156	0.001686	0.016859
30-Oct-2031	0.021564	11.121300	17.613400	2.602590	38.487352	1.506490	0.016445	0.159820	0.038533	0.003211	0.001593	0.108077	0.000545	0.010756	0.006207	0.001700	0.016995
31-Oct-2031	0.022888	11.207500	17.759800	2.619510	38.772270	1.516420	0.016586	0.161210	0.038788	0.003233	0.001602	0.108526	0.000549	0.010832	0.006257	0.001713	0.017129
1-Nov-2031	0.023526	11.292900	17.900700	2.637640	39.060173	1.528970	0.016720	0.162523	0.039059	0.003256	0.001611	0.109134	0.000554	0.010910	0.006306	0.001726	0.017261
2-Nov-2031	0.023583	11.357100	18.013500	2.649020	39.267343	1.539640	0.016830	0.163615	0.039231	0.003272	0.001616	0.109322	0.000557	0.010963	0.006344	0.001736	0.017361
3-Nov-2031	0.024343	11.438300	18.144400	2.667340	39.545541	1.551000	0.016953	0.164815	0.039503	0.003294	0.001627	0.110028	0.000561	0.011040	0.006389	0.001749	0.017486
4-Nov-2031	0.025711	11.514300	18.269000	2.683750	39.802890	1.562030	0.017071	0.165971	0.039748	0.003315	0.001636	0.110602	0.000565	0.011111	0.006433	0.001760	0.017603
5-Nov-2031	0.026686	11.573100	18.368700	2.695330	39.997400	1.571170	0.017167	0.166918	0.039923	0.003330	0.001641	0.110914	0.000569	0.011162	0.006467	0.001769	0.017694
6-Nov-2031	0.026903	11.627300	18.457400	2.707080	40.181124	1.579000	0.017251	0.167740	0.040099	0.003345	0.001648	0.111329	0.000571	0.011213	0.006497	0.001778	0.017778
7-Nov-2031	0.026111	11.683300	18.543500	2.721030	40.378402	1.586110	0.017331	0.168505	0.040304	0.003362	0.001657	0.111977	0.000574	0.011269	0.006528	0.001786	0.017863
8-Nov-2031	0.025493	11.775900	18.691000	2.742430	40.697749	1.598770	0.017469	0.169848	0.040621	0.003388	0.001670	0.112844	0.000578	0.011358	0.006580	0.001800	0.018004
9-Nov-2031	0.025251	11.866700	18.834600	2.763710	41.012108	1.611020	0.017603	0.171151	0.040936	0.003415	0.001683	0.113730	0.000583	0.011446	0.006631	0.001814	0.018143
10-Nov-2031	0.025105	11.950200	18.964000	2.784240	41.305150	1.621770	0.017722	0.172306	0.041238	0.003440	0.001696	0.114660	0.000587	0.011529	0.006677	0.001827	0.018270

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
11-Nov-2031	0.025411	12.012000	19.049400	2.802660	41.535318	1.627910	0.017797	0.173007	0.041509	0.003461	0.001710	0.115737	0.000589	0.011598	0.006709	0.001836	0.018362
12-Nov-2031	0.025551	12.057800	19.108300	2.817790	41.711986	1.631660	0.017846	0.173459	0.041734	0.003478	0.001723	0.116711	0.000591	0.011654	0.006732	0.001843	0.018429
13-Nov-2031	0.025005	12.111000	19.183100	2.833250	41.908491	1.637160	0.017912	0.174081	0.041963	0.003496	0.001734	0.117590	0.000593	0.011713	0.006760	0.001851	0.018508
14-Nov-2031	0.024725	12.165800	19.265400	2.847510	42.104049	1.643760	0.017987	0.174801	0.042175	0.003513	0.001744	0.118294	0.000596	0.011769	0.006790	0.001859	0.018591
15-Nov-2031	0.025200	12.224500	19.359700	2.860850	42.305557	1.651930	0.018075	0.175664	0.042372	0.003530	0.001752	0.118816	0.000599	0.011825	0.006823	0.001868	0.018681
16-Nov-2031	0.025828	12.287700	19.463100	2.874560	42.519825	1.661070	0.018173	0.176623	0.042575	0.003547	0.001759	0.119300	0.000602	0.011883	0.006859	0.001878	0.018779
17-Nov-2031	0.025840	12.360200	19.580400	2.890730	42.767446	1.671310	0.018284	0.177703	0.042815	0.003567	0.001769	0.119909	0.000606	0.011952	0.006900	0.001889	0.018890
18-Nov-2031	0.025262	12.436600	19.704200	2.907680	43.028016	1.682140	0.018401	0.178843	0.043066	0.003588	0.001779	0.120539	0.000609	0.012023	0.006943	0.001901	0.019007
19-Nov-2031	0.024738	12.415100	19.672300	2.901980	42.950858	1.679620	0.018372	0.178566	0.042982	0.003582	0.001775	0.120248	0.000608	0.012001	0.006931	0.001897	0.018975
20-Nov-2031	0.024550	12.476300	19.773800	2.914850	43.156673	1.688700	0.018469	0.179515	0.043174	0.003598	0.001781	0.120668	0.000612	0.012056	0.006966	0.001907	0.019069
21-Nov-2031	0.024653	12.539100	19.876900	2.928370	43.369160	1.697830	0.018566	0.180472	0.043375	0.003615	0.001789	0.121137	0.000615	0.012114	0.007002	0.001917	0.019166
22-Nov-2031	0.024816	12.602200	19.979800	2.942190	43.583632	1.706890	0.018664	0.181424	0.043580	0.003632	0.001797	0.121636	0.000618	0.012173	0.007038	0.001926	0.019263
23-Nov-2031	0.024841	12.664400	20.081000	2.955850	43.795197	1.715770	0.018759	0.182358	0.043783	0.003650	0.001804	0.122135	0.000621	0.012231	0.007073	0.001936	0.019359
24-Nov-2031	0.024729	12.725800	20.180800	2.969410	44.004353	1.724520	0.018853	0.183279	0.043985	0.003667	0.001812	0.122634	0.000624	0.012288	0.007108	0.001945	0.019453
25-Nov-2031	0.024609	12.746500	20.213900	2.974160	44.075601	1.727390	0.018885	0.183582	0.044055	0.003672	0.001815	0.122870	0.000625	0.012308	0.007119	0.001948	0.019485
26-Nov-2031	0.024810	12.810000	20.316700	2.988810	44.294490	1.736360	0.018981	0.184528	0.044272	0.003691	0.001824	0.123423	0.000629	0.012369	0.007155	0.001958	0.019582
27-Nov-2031	0.024931	12.884100	20.433100	3.005900	44.549894	1.746260	0.019090	0.185578	0.044526	0.003712	0.001834	0.124105	0.000632	0.012440	0.007196	0.001970	0.019695
28-Nov-2031	0.024812	12.955500	20.547400	3.022210	44.795344	1.756120	0.019197	0.186623	0.044768	0.003732	0.001844	0.124751	0.000636	0.012508	0.007236	0.001980	0.019805
29-Nov-2031	0.024884	13.025700	20.658800	3.038590	45.038087	1.765600	0.019301	0.187635	0.045011	0.003752	0.001854	0.125427	0.000639	0.012576	0.007276	0.001991	0.019912
30-Nov-2031	0.025053	12.815600	20.326900	2.989130	44.309791	1.737360	0.018992	0.184629	0.044279	0.003691	0.001823	0.123349	0.000629	0.012372	0.007158	0.001959	0.019591
1-Dec-2031	0.024936	12.888500	20.442900	3.005990	44.561251	1.747310	0.019100	0.185685	0.044529	0.003712	0.001834	0.124034	0.000633	0.012442	0.007199	0.001970	0.019703
2-Dec-2031	0.025021	12.961600	20.560600	3.022530	44.811894	1.757520	0.019211	0.186764	0.044775	0.003733	0.001843	0.124676	0.000636	0.012512	0.007240	0.001981	0.019815
3-Dec-2031	0.025185	13.043200	20.691000	3.041210	45.092573	1.768760	0.019333	0.187955	0.045052	0.003756	0.001855	0.125420	0.000640	0.012589	0.007286	0.001994	0.019940
4-Dec-2031	0.025169	13.137000	20.840200	3.062950	45.416317	1.781560	0.019473	0.189313	0.045374	0.003783	0.001868	0.126305	0.000645	0.012680	0.007339	0.002008	0.020083
5-Dec-2031	0.024920	12.944100	20.539300	3.016310	44.742582	1.756310	0.019194	0.186611	0.044685	0.003726	0.001838	0.124251	0.000636	0.012489	0.007232	0.001979	0.019790
6-Dec-2031	0.024796	13.007100	20.641800	3.030190	44.957051	1.765310	0.019291	0.187557	0.044892	0.003743	0.001846	0.124759	0.000639	0.012548	0.007267	0.001989	0.019886
7-Dec-2031	0.024806	13.070500	20.744600	3.044240	45.173219	1.774300	0.019388	0.188504	0.045101	0.003761	0.001854	0.125282	0.000642	0.012608	0.007303	0.001998	0.019984
8-Dec-2031	0.024669	13.134600	20.849700	3.058050	45.390146	1.783610	0.019487	0.189480	0.045306	0.003778	0.001862	0.125763	0.000645	0.012667	0.007340	0.002008	0.020082
9-Dec-2031	0.024594	13.196500	20.950900	3.071520	45.600180	1.792550	0.019583	0.190418	0.045506	0.003795	0.001869	0.126242	0.000649	0.012724	0.007375	0.002018	0.020178
10-Dec-2031	0.024770	13.267400	21.063700	3.087980	45.844999	1.802210	0.019689	0.191443	0.045750	0.003816	0.001879	0.126915	0.000652	0.012793	0.007414	0.002029	0.020286
11-Dec-2031	0.024844	13.348900	21.192000	3.107260	46.127900	1.813100	0.019808	0.192604	0.046036	0.003839	0.001891	0.127732	0.000656	0.012872	0.007460	0.002041	0.020411
12-Dec-2031	0.024694	13.395700	21.267600	3.117780	46.288081	1.819680	0.019879	0.193298	0.046192	0.003852	0.001897	0.128134	0.000658	0.012916	0.007486	0.002048	0.020483
13-Dec-2031	0.024752	13.436400	21.335000	3.126340	46.424959	1.825700	0.019943	0.193928	0.046320	0.003863	0.001902	0.128414	0.000660	0.012953	0.007509	0.002055	0.020545
14-Dec-2031	0.024804	13.491200	21.426300	3.137690	46.608534	1.833920	0.020031	0.194784	0.046489	0.003878	0.001908	0.128770	0.000663	0.013003	0.007541	0.002063	0.020630
15-Dec-2031	0.024650	13.533200	21.500000	3.145200	46.744334	1.840870	0.020102	0.195496	0.046603	0.003888	0.001911	0.128901	0.000666	0.013038	0.007565	0.002070	0.020696
16-Dec-2031	0.024687	13.575700	21.572300	3.153540	46.884801	1.847500	0.020172	0.196182	0.046728	0.003899	0.001915	0.129121	0.000668	0.013075	0.007590	0.002076	0.020762
17-Dec-2031	0.024726	13.639900	21.674300	3.168420	47.106384	1.856240	0.020267	0.197110	0.046948	0.003917	0.001924	0.129729	0.000671	0.013137	0.007626	0.002086	0.020860
18-Dec-2031	0.024579	13.687000	21.748400	3.179590	47.269991	1.862520	0.020336	0.197779	0.047113	0.003931	0.001931	0.130205	0.000673	0.013182	0.007652	0.002093	0.020932
19-Dec-2031	0.024606	13.728100	21.814100	3.188990	47.411327	1.868190	0.020398	0.198380	0.047253	0.003943	0.001936	0.130578	0.000675	0.013222	0.007675	0.002099	0.020995
20-Dec-2031	0.024663	13.779800	21.899100	3.200100	47.586172	1.875730	0.020479	0.199170	0.047418	0.003957	0.001942	0.130961	0.000678	0.013269	0.007705	0.002107	0.021074
21-Dec-2031	0.024519	13.821600	21.971000	3.208090	47.723450	1.882380	0.020548	0.199855	0.047538	0.003967	0.001946	0.131152	0.000680	0.013305	0.007729	0.002114	0.021139
22-Dec-2031	0.024512	13.857800	22.033100	3.214980	47.842214	1.888130	0.020608	0.200448	0.047642	0.003976	0.001949	0.131316	0.000682	0.013337	0.007750	0.002120	0.021196
23-Dec-2031	0.024551	13.874500	22.062300	3.217990	47.896309	1.890880	0.020637	0.200730	0.047687	0.003980	0.001951	0.131371	0.000683	0.013351	0.007760	0.002122	0.021222
24-Dec-2031	0.024447	13.907100	22.116300	3.224810	48.005796	1.895730	0.020688	0.201236	0.047789	0.003989	0.001954	0.131591	0.000685	0.013380	0.007778	0.002127	0.021272
25-Dec-2031	0.024481	13.934100	22.161800	3.230230	48.095535	1.899860	0.020732	0.201665	0.047870	0.003996	0.001957	0.131746	0.000687	0.013404	0.007794	0.002131	0.021314
26-Dec-2031	0.024559	13.962100	22.208700	3.236010	48.189253	1.904090	0.020777	0.202105	0.047957	0.004003	0.001960	0.131925	0.000688	0.013429	0.007810	0.002136	0.021357
27-Dec-2031	0.024460	13.994600	22.262000	3.243000	48.299190	1.908810	0.020827	0.202600	0.048061	0.004012	0.001964	0.132167	0.000690	0.013459	0.007829	0.002141	0.021407
28-Dec-2031	0.024471	14.002000	22.276100	3.243900	48.321374	1.910260	0.020842	0.202744	0.048075	0.004014	0.001964	0.132141	0.000690	0.013464	0.007833	0.002142	0.021419
29-Dec-2031	0.024536	14.031500	22.324200	3.250380	48.421720	1.914480	0.020887	0.203188	0.048171	0.004022	0.001967	0.132377	0.000692	0.013492	0.007850	0.002146	0.021465
30-Dec-2031	0.024461	14.081600	22.404600	3.261820	48.593930	1.921430	0.020962	0.203924	0.048341	0.004036	0.001974	0.132827	0.000694	0.013540	0.007878	0.002154	0.021541
31-Dec-2031	0.024437	14.148900	22.525900	3.272750	48.806988	1.933140	0.021082	0.205113	0.048511	0.004051	0.001979	0.133153	0.000698	0.013593	0.007918	0.002165	0.021648
1-Jan-2032	0.024496	14.162300	22.533800	3.280220	48.871209	1.932580	0.021084	0.205104	0.048614	0.004059	0.001985	0.133556	0.000698	0.013617	0.007923	0.002166	0.021665
2-Jan-2032	0.024451	14.217500	22.621500	3.293050	49.061877	1.940090	0.021166	0.205902	0.048804	0.004075	0.001993	0.134081	0.000701	0.013670	0.007954	0.002175	0.021749

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
3-Jan-2032	0.024421	14.268200	22.701900	3.304910	49.237315	1.946970	0.021241	0.206632	0.048979	0.004089	0.002000	0.134571	0.000703	0.013719	0.007982	0.002183	0.021827
4-Jan-2032	0.024479	14.313000	22.772700	3.315410	49.392419	1.953000	0.021307	0.207274	0.049135	0.004102	0.002007	0.135010	0.000706	0.013762	0.008007	0.002190	0.021895
5-Jan-2032	0.024478	14.362900	22.851400	3.327200	49.565571	1.959680	0.021380	0.207986	0.049309	0.004117	0.002014	0.135508	0.000708	0.013811	0.008035	0.002197	0.021972
6-Jan-2032	0.024432	14.415300	22.934000	3.339580	49.747395	1.966690	0.021457	0.208733	0.049493	0.004132	0.002022	0.136032	0.000711	0.013862	0.008064	0.002205	0.022052
7-Jan-2032	0.024437	14.468200	23.017500	3.352040	49.930796	1.973790	0.021535	0.209489	0.049677	0.004147	0.002029	0.136556	0.000713	0.013913	0.008094	0.002213	0.022132
8-Jan-2032	0.024463	14.524400	23.106300	3.365280	50.125650	1.981350	0.021618	0.210293	0.049873	0.004164	0.002037	0.137112	0.000716	0.013968	0.008125	0.002222	0.022218
9-Jan-2032	0.024460	14.582200	23.197600	3.378860	50.325899	1.989120	0.021703	0.211120	0.050074	0.004180	0.002046	0.137680	0.000719	0.014024	0.008157	0.002231	0.022306
10-Jan-2032	0.024449	14.638600	23.286800	3.392100	50.521252	1.996720	0.021786	0.211929	0.050270	0.004197	0.002054	0.138234	0.000721	0.014078	0.008189	0.002239	0.022393
11-Jan-2032	0.024474	14.698700	23.381800	3.406220	50.729468	2.004810	0.021875	0.212790	0.050479	0.004214	0.002063	0.138824	0.000724	0.014137	0.008222	0.002248	0.022484
12-Jan-2032	0.024488	14.766400	23.488900	3.422180	50.964238	2.013920	0.021975	0.213760	0.050716	0.004234	0.002072	0.139494	0.000728	0.014202	0.008260	0.002259	0.022588
13-Jan-2032	0.024464	14.837400	23.600900	3.438890	51.210337	2.023450	0.022079	0.214775	0.050963	0.004254	0.002083	0.140196	0.000731	0.014271	0.008300	0.002270	0.022696
14-Jan-2032	0.024478	14.910700	23.716800	3.456130	51.464361	2.033320	0.022187	0.215825	0.051218	0.004276	0.002093	0.140918	0.000735	0.014342	0.008341	0.002281	0.022808
15-Jan-2032	0.024477	14.985900	23.835800	3.473730	51.724612	2.043460	0.022298	0.216904	0.051479	0.004297	0.002104	0.141650	0.000738	0.014415	0.008382	0.002292	0.022923
16-Jan-2032	0.024479	15.057400	23.949400	3.490320	51.971466	2.053200	0.022404	0.217937	0.051725	0.004318	0.002114	0.142329	0.000742	0.014484	0.008422	0.002303	0.023032
17-Jan-2032	0.024495	15.122300	24.053400	3.505180	52.194714	2.062170	0.022502	0.218887	0.051945	0.004336	0.002123	0.142918	0.000745	0.014546	0.008459	0.002313	0.023132
18-Jan-2032	0.024508	15.183800	24.152100	3.519110	52.405644	2.070730	0.022595	0.219792	0.052152	0.004354	0.002131	0.143461	0.000748	0.014604	0.008493	0.002323	0.023226
19-Jan-2032	0.024518	15.241100	24.244300	3.532050	52.602009	2.078730	0.022682	0.220638	0.052344	0.004370	0.002139	0.143962	0.000751	0.014659	0.008526	0.002331	0.023314
20-Jan-2032	0.024523	15.293900	24.329400	3.543880	52.782566	2.086140	0.022762	0.221419	0.052520	0.004385	0.002146	0.144413	0.000754	0.014708	0.008555	0.002340	0.023395
21-Jan-2032	0.024530	15.337600	24.400400	3.553540	52.931465	2.092360	0.022829	0.222074	0.052664	0.004397	0.002151	0.144769	0.000756	0.014749	0.008580	0.002346	0.023462
22-Jan-2032	0.024528	15.380400	24.470100	3.563010	53.077334	2.098470	0.022894	0.222717	0.052804	0.004408	0.002157	0.145118	0.000758	0.014789	0.008604	0.002353	0.023528
23-Jan-2032	0.024529	15.425900	24.543700	3.573080	53.232416	2.104910	0.022964	0.223395	0.052954	0.004421	0.002162	0.145493	0.000760	0.014832	0.008630	0.002360	0.023598
24-Jan-2032	0.024529	15.502100	24.665500	3.590540	53.494587	2.115410	0.023078	0.224508	0.053213	0.004443	0.002173	0.146189	0.000764	0.014905	0.008673	0.002371	0.023715
25-Jan-2032	0.024527	15.592500	24.809900	3.611320	53.805888	2.127840	0.023214	0.225825	0.053521	0.004469	0.002185	0.147022	0.000769	0.014991	0.008723	0.002385	0.023853
26-Jan-2032	0.024530	15.697500	24.977400	3.635470	54.167523	2.142250	0.023370	0.227352	0.053879	0.004499	0.002200	0.147993	0.000774	0.015092	0.008782	0.002401	0.024014
27-Jan-2032	0.024535	15.817800	25.169300	3.663200	54.582104	2.158750	0.023550	0.229102	0.054290	0.004533	0.002217	0.149110	0.000780	0.015207	0.008850	0.002420	0.024198
28-Jan-2032	0.024537	15.948000	25.376900	3.693230	55.030877	2.176590	0.023744	0.230993	0.054735	0.004570	0.002235	0.150323	0.000786	0.015332	0.008923	0.002440	0.024397
29-Jan-2032	0.024535	16.081500	25.589700	3.724060	55.491185	2.194870	0.023944	0.232932	0.055193	0.004608	0.002253	0.151570	0.000793	0.015460	0.008997	0.002460	0.024602
30-Jan-2032	0.024544	16.238100	25.839100	3.760190	56.030998	2.216300	0.024177	0.235205	0.055728	0.004653	0.002275	0.153032	0.000801	0.015610	0.009085	0.002484	0.024841
31-Jan-2032	0.024550	16.408100	26.110000	3.799440	56.617120	2.239560	0.024431	0.237672	0.056310	0.004702	0.002299	0.154620	0.000809	0.015774	0.009180	0.002510	0.025101
1-Feb-2032	0.024553	16.590900	26.401400	3.841670	57.247474	2.264590	0.024704	0.240327	0.056936	0.004754	0.002324	0.156329	0.000818	0.015949	0.009283	0.002538	0.025381
2-Feb-2032	0.024555	16.788000	26.715200	3.887170	57.927002	2.291550	0.024998	0.243187	0.057610	0.004810	0.002352	0.158172	0.000828	0.016138	0.009393	0.002568	0.025682
3-Feb-2032	0.024557	17.001900	27.055900	3.936600	58.664663	2.320800	0.025316	0.246290	0.058343	0.004871	0.002381	0.160175	0.000838	0.016344	0.009513	0.002601	0.026010
4-Feb-2032	0.024556	17.227000	27.414500	3.988640	59.441039	2.351580	0.025652	0.249556	0.059115	0.004936	0.002413	0.162285	0.000849	0.016560	0.009639	0.002635	0.026354
5-Feb-2032	0.024554	17.462100	27.788800	4.043000	60.251938	2.383710	0.026002	0.252965	0.059920	0.005003	0.002446	0.164491	0.000861	0.016786	0.009770	0.002671	0.026714
6-Feb-2032	0.024553	17.706200	28.177500	4.099460	61.093958	2.417070	0.026366	0.256504	0.060757	0.005073	0.002480	0.166784	0.000873	0.017020	0.009907	0.002709	0.027087
7-Feb-2032	0.024553	17.958200	28.578700	4.157770	61.963322	2.451490	0.026742	0.260156	0.061621	0.005145	0.002515	0.169153	0.000886	0.017262	0.010048	0.002747	0.027473
8-Feb-2032	0.024553	18.215800	28.988500	4.217370	62.851982	2.486660	0.027125	0.263888	0.062505	0.005219	0.002551	0.171576	0.000898	0.017510	0.010192	0.002787	0.027867
9-Feb-2032	0.024552	18.478000	29.405900	4.278080	63.756699	2.522460	0.027516	0.267687	0.063404	0.005294	0.002588	0.174045	0.000911	0.017762	0.010339	0.002827	0.028268
10-Feb-2032	0.024552	18.742800	29.827300	4.339400	64.670421	2.558610	0.027910	0.271524	0.064313	0.005370	0.002625	0.176540	0.000924	0.018016	0.010487	0.002867	0.028673
11-Feb-2032	0.024551	19.007900	30.249100	4.400760	65.585056	2.594790	0.028305	0.275363	0.065223	0.005446	0.002662	0.179037	0.000937	0.018271	0.010635	0.002908	0.029079
12-Feb-2032	0.024552	19.272100	30.669500	4.461940	66.496703	2.630850	0.028698	0.279190	0.066129	0.005522	0.002699	0.181527	0.000950	0.018525	0.010783	0.002948	0.029483
13-Feb-2032	0.024553	19.534000	31.086300	4.522600	67.400465	2.666590	0.029088	0.282983	0.067028	0.005597	0.002736	0.183996	0.000963	0.018777	0.010929	0.002988	0.029884
14-Feb-2032	0.024553	19.794500	31.500900	4.582950	68.299455	2.702150	0.029476	0.286757	0.067923	0.005671	0.002772	0.186453	0.000976	0.019027	0.011075	0.003028	0.030282
15-Feb-2032	0.024553	20.054400	31.914300	4.643130	69.196246	2.737610	0.029863	0.290520	0.068814	0.005746	0.002809	0.188903	0.000989	0.019277	0.011221	0.003068	0.030680
16-Feb-2032	0.024553	20.313700	32.327000	4.703200	70.091087	2.773000	0.030249	0.294276	0.069705	0.005820	0.002845	0.191348	0.001002	0.019527	0.011366	0.003108	0.031076
17-Feb-2032	0.024553	20.572800	32.739200	4.763200	70.985139	2.808360	0.030635	0.298028	0.070594	0.005894	0.002881	0.193791	0.001014	0.019776	0.011511	0.003147	0.031473
18-Feb-2032	0.024553	20.831600	33.150900	4.823130	71.878155	2.843670	0.031020	0.301776	0.071482	0.005969	0.002918	0.196231	0.001027	0.020024	0.011655	0.003187	0.031869
19-Feb-2032	0.024553	21.090300	33.562600	4.883040	72.770838	2.878980	0.031405	0.305523	0.072370	0.006043	0.002954	0.198669	0.001040	0.020273	0.011800	0.003226	0.032264
20-Feb-2032	0.024553	21.349100	33.974500	4.942990	73.663936	2.914310	0.031790	0.309272	0.073259	0.006117	0.002990	0.201110	0.001053	0.020522	0.011945	0.003266	0.032660
21-Feb-2032	0.024552	21.604500	34.380800	5.002110	74.545125	2.949160	0.032171	0.312972	0.074135	0.006190	0.003026	0.203515	0.001065	0.020768	0.012088	0.003305	0.033051
22-Feb-2032	0.024552	21.857100	34.782900	5.060610	75.416771	2.983660	0.032547	0.316632	0.075002	0.006262	0.003061	0.205895	0.001078	0.021010	0.012229	0.003344	0.033438
23-Feb-2032	0.024554	22.115100	35.193300	5.120350	76.307006	3.018850	0.032931	0.320367	0.075887	0.006336	0.003097	0.208327	0.001090	0.021258	0.012374	0.003383	0.033832
24-Feb-2032	0.024555	22.377700	35.611100	5.181200	77.213299	3.054680	0.033322	0.324170	0.076789	0.006412	0.003134	0.210807	0.001103	0.021511	0.012520	0.003423	0.034234

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
25-Feb-2032	0.024555	22.640800	36.029600	5.242160	78.121292	3.090560	0.033713	0.327978	0.077692	0.006487	0.003171	0.213291	0.001116	0.021764	0.012668	0.003464	0.034636
26-Feb-2032	0.024555	22.902800	36.446500	5.302870	79.025510	3.126310	0.034103	0.331773	0.078592	0.006562	0.003208	0.215764	0.001129	0.022016	0.012814	0.003504	0.035037
27-Feb-2032	0.024555	23.165400	36.864200	5.363700	79.931720	3.162140	0.034494	0.335575	0.079494	0.006637	0.003245	0.218242	0.001142	0.022268	0.012961	0.003544	0.035439
28-Feb-2032	0.024555	23.428600	37.283000	5.424680	80.840046	3.198050	0.034886	0.339386	0.080397	0.006713	0.003282	0.220725	0.001155	0.022521	0.013108	0.003584	0.035841
29-Feb-2032	0.024555	23.692700	37.703100	5.485860	81.751443	3.234070	0.035279	0.343210	0.081304	0.006789	0.003319	0.223217	0.001168	0.022775	0.013256	0.003625	0.036245
1-Mar-2032	0.024555	23.961500	38.130800	5.548160	82.679188	3.270740	0.035679	0.347102	0.082227	0.006866	0.003356	0.225756	0.001181	0.023034	0.013406	0.003666	0.036657
2-Mar-2032	0.024555	24.232200	38.561500	5.610870	83.613366	3.307670	0.036082	0.351022	0.083157	0.006943	0.003394	0.228311	0.001195	0.023294	0.013558	0.003707	0.037071
3-Mar-2032	0.024555	24.503900	38.993800	5.673800	84.550947	3.344750	0.036487	0.354957	0.084089	0.007021	0.003432	0.230873	0.001208	0.023556	0.013710	0.003749	0.037486
4-Mar-2032	0.024555	24.777300	39.428700	5.737100	85.494296	3.382050	0.036893	0.358915	0.085028	0.007099	0.003471	0.233450	0.001222	0.023818	0.013863	0.003790	0.037905
5-Mar-2032	0.024555	25.052500	39.866600	5.800850	86.443993	3.419610	0.037303	0.362901	0.085972	0.007178	0.003509	0.236045	0.001235	0.024083	0.014017	0.003833	0.038326
6-Mar-2032	0.024555	25.329800	40.307900	5.865080	87.400910	3.457460	0.037716	0.366918	0.086924	0.007258	0.003548	0.238660	0.001249	0.024350	0.014172	0.003875	0.038750
7-Mar-2032	0.024555	25.609600	40.753100	5.929880	88.366417	3.495640	0.038133	0.370970	0.087885	0.007338	0.003587	0.241298	0.001263	0.024619	0.014329	0.003918	0.039178
8-Mar-2032	0.024549	19.396700	30.866400	4.491320	66.928816	2.647590	0.028882	0.280972	0.066564	0.005558	0.002717	0.182762	0.000956	0.018646	0.010852	0.002967	0.029673
9-Mar-2032	0.024549	19.593600	31.179700	4.536900	67.608173	2.674470	0.029175	0.283824	0.067240	0.005614	0.002745	0.184617	0.000966	0.018835	0.010963	0.002997	0.029975
10-Mar-2032	0.024549	19.796100	31.501900	4.583790	68.306909	2.702110	0.029476	0.286758	0.067935	0.005672	0.002773	0.186524	0.000976	0.019030	0.011076	0.003028	0.030284
11-Mar-2032	0.024549	20.004100	31.832900	4.631940	69.024567	2.730500	0.029786	0.289771	0.068648	0.005732	0.002802	0.188483	0.000986	0.019230	0.011192	0.003060	0.030603
12-Mar-2032	0.024549	20.217600	32.172700	4.681370	69.761229	2.759640	0.030104	0.292863	0.069381	0.005793	0.002832	0.190495	0.000997	0.019435	0.011312	0.003093	0.030929
13-Mar-2032	0.024549	20.436600	32.521100	4.732080	70.516896	2.789540	0.030430	0.296036	0.070132	0.005856	0.002863	0.192558	0.001008	0.019646	0.011434	0.003126	0.031264
14-Mar-2032	0.024549	20.661100	32.878500	4.784070	71.291567	2.820180	0.030764	0.299288	0.070903	0.005920	0.002894	0.194673	0.001019	0.019862	0.011560	0.003161	0.031608
15-Mar-2032	0.024549	20.891500	33.245100	4.837420	72.086571	2.851640	0.031107	0.302626	0.071694	0.005986	0.002926	0.196844	0.001030	0.020083	0.011689	0.003196	0.031960
16-Mar-2032	0.024550	21.128400	33.622000	4.892260	72.903941	2.883970	0.031460	0.306057	0.072506	0.006054	0.002960	0.199075	0.001042	0.020311	0.011821	0.003232	0.032322
17-Mar-2032	0.024550	21.370900	34.008000	4.948420	73.740731	2.917080	0.031821	0.309571	0.073339	0.006123	0.002994	0.201360	0.001054	0.020544	0.011957	0.003269	0.032694
18-Mar-2032	0.024550	21.619900	34.404100	5.006050	74.599804	2.951050	0.032192	0.313177	0.074193	0.006195	0.003028	0.203706	0.001066	0.020783	0.012096	0.003307	0.033074
19-Mar-2032	0.024550	21.875100	34.810300	5.065150	75.480412	2.985900	0.032572	0.316874	0.075069	0.006268	0.003064	0.206110	0.001079	0.021029	0.012239	0.003346	0.033465
20-Mar-2032	0.024550	22.137000	35.227100	5.125800	76.384133	3.021650	0.032962	0.320668	0.075968	0.006343	0.003101	0.208578	0.001092	0.021280	0.012386	0.003387	0.033865
21-Mar-2032	0.024550	22.405600	35.654600	5.188000	77.310967	3.058310	0.033362	0.324559	0.076889	0.006420	0.003139	0.211109	0.001105	0.021539	0.012536	0.003428	0.034276
22-Mar-2032	0.024551	22.681200	36.093200	5.251810	78.261910	3.095930	0.033772	0.328552	0.077835	0.006499	0.003177	0.213706	0.001118	0.021803	0.012690	0.003470	0.034698
23-Mar-2032	0.024551	22.963800	36.542800	5.317240	79.237003	3.134500	0.034193	0.332645	0.078805	0.006580	0.003217	0.216368	0.001132	0.022075	0.012848	0.003513	0.035130
24-Mar-2032	0.024551	23.250300	36.998800	5.383590	80.225623	3.173610	0.034620	0.336795	0.079788	0.006662	0.003257	0.219068	0.001146	0.022351	0.013009	0.003557	0.035569
25-Mar-2032	0.024551	23.544500	37.466800	5.451690	81.240676	3.213760	0.035058	0.341056	0.080798	0.006746	0.003298	0.221840	0.001161	0.022633	0.013173	0.003602	0.036019
26-Mar-2032	0.024551	23.845700	37.946200	5.521450	82.280044	3.254880	0.035506	0.345420	0.081831	0.006833	0.003340	0.224678	0.001176	0.022923	0.013342	0.003648	0.036479
27-Mar-2032	0.024551	24.154500	38.437600	5.592940	83.345513	3.297030	0.035966	0.349892	0.082891	0.006921	0.003384	0.227587	0.001191	0.023220	0.013514	0.003695	0.036952
28-Mar-2032	0.024551	24.471000	38.941300	5.666240	84.437663	3.340230	0.036437	0.354478	0.083977	0.007012	0.003428	0.230570	0.001207	0.023524	0.013691	0.003744	0.037436
29-Mar-2032	0.024551	24.795500	39.457600	5.741360	85.557284	3.384520	0.036920	0.359178	0.085091	0.007105	0.003473	0.233627	0.001223	0.023836	0.013873	0.003793	0.037932
30-Mar-2032	0.024552	25.127900	39.986600	5.818330	86.704249	3.429890	0.037415	0.363993	0.086231	0.007200	0.003520	0.236759	0.001239	0.024155	0.014059	0.003844	0.038441
31-Mar-2032	0.024552	25.468800	40.529100	5.897270	87.880551	3.476430	0.037923	0.368931	0.087401	0.007298	0.003568	0.239970	0.001256	0.024483	0.014250	0.003896	0.038962
1-Apr-2032	0.024552	25.818400	41.085300	5.978200	89.086772	3.524140	0.038444	0.373995	0.088601	0.007398	0.003617	0.243264	0.001273	0.024819	0.014445	0.003950	0.039497
2-Apr-2032	0.024552	26.165100	41.637100	6.058490	90.283117	3.571470	0.038960	0.379017	0.089791	0.007497	0.003665	0.246531	0.001290	0.025152	0.014639	0.004003	0.040028
3-Apr-2032	0.024552	26.474300	42.129100	6.130080	91.349997	3.613670	0.039420	0.383496	0.090852	0.007586	0.003708	0.249444	0.001305	0.025450	0.014812	0.004050	0.040501
4-Apr-2032	0.024552	26.733300	42.541300	6.190060	92.243717	3.649030	0.039806	0.387248	0.091741	0.007660	0.003745	0.251884	0.001318	0.025699	0.014957	0.004090	0.040897
5-Apr-2032	0.024552	26.946500	42.880600	6.239420	92.979342	3.678130	0.040123	0.390337	0.092472	0.007721	0.003775	0.253893	0.001329	0.025904	0.015077	0.004122	0.041223
6-Apr-2032	0.024552	27.121500	43.159100	6.279950	93.583220	3.702020	0.040384	0.392872	0.093073	0.007771	0.003799	0.255542	0.001337	0.026072	0.015174	0.004149	0.041491
7-Apr-2032	0.024552	27.265600	43.388300	6.313310	94.080414	3.721690	0.040598	0.394959	0.093567	0.007812	0.003819	0.256900	0.001344	0.026210	0.015255	0.004171	0.041711
8-Apr-2032	0.024552	27.384600	43.577700	6.340870	94.491049	3.737930	0.040776	0.396683	0.093976	0.007847	0.003836	0.258021	0.001350	0.026325	0.015322	0.004189	0.041893
9-Apr-2032	0.024552	27.483100	43.734500	6.363680	94.830935	3.751380	0.040922	0.398110	0.094314	0.007875	0.003850	0.258950	0.001355	0.026420	0.015377	0.004204	0.042044
10-Apr-2032	0.024552	27.565900	43.866100	6.382840	95.116587	3.762670	0.041046	0.399308	0.094598	0.007899	0.003861	0.259729	0.001359	0.026499	0.015423	0.004217	0.042171
11-Apr-2032	0.024553	27.632900	43.972900	6.398370	95.347839	3.771820	0.041145	0.400280	0.094828	0.007918	0.003871	0.260361	0.001362	0.026564	0.015461	0.004227	0.042273
12-Apr-2032	0.024553	27.688900	44.062000	6.411340	95.541081	3.779470	0.041229	0.401091	0.095020	0.007934	0.003879	0.260889	0.001365	0.026617	0.015492	0.004236	0.042359
13-Apr-2032	0.024553	27.735800	44.136600	6.422200	95.702912	3.785870	0.041299	0.401770	0.095181	0.007947	0.003885	0.261331	0.001368	0.026662	0.015518	0.004243	0.042431
14-Apr-2032	0.024553	27.775200	44.199200	6.431310	95.838809	3.791240	0.041357	0.402340	0.095316	0.007959	0.003891	0.261702	0.001370	0.026700	0.015540	0.004249	0.042491
15-Apr-2032	0.024553	27.808300	44.252000	6.438990	95.953086	3.795760	0.041407	0.402820	0.095430	0.007968	0.003895	0.262014	0.001371	0.026732	0.015559	0.004254	0.042541
16-Apr-2032	0.024553	27.836500	44.296800	6.445510	96.050351	3.799610	0.041449	0.403228	0.095527	0.007976	0.003899	0.262280	0.001373	0.026759	0.015574	0.004258	0.042585
17-Apr-2032	0.024553	27.860700	44.335300	6.451110	96.133839	3.802910	0.041484	0.403578	0.095609	0.007983	0.003903	0.262508	0.001374	0.026782	0.015588	0.004262	0.042622

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
18-Apr-2032	0.024553	27.881400	44.368300	6.455920	96.205334	3.805740	0.041515	0.403879	0.095681	0.007989	0.003906	0.262704	0.001375	0.026802	0.015600	0.004265	0.042653
19-Apr-2032	0.024553	27.899400	44.396900	6.460080	96.267411	3.808190	0.041542	0.404139	0.095742	0.007994	0.003908	0.262873	0.001376	0.026820	0.015610	0.004268	0.042681
20-Apr-2032	0.024553	27.915100	44.421800	6.463710	96.321562	3.810330	0.041566	0.404366	0.095796	0.007999	0.003910	0.263021	0.001376	0.026835	0.015618	0.004270	0.042705
21-Apr-2032	0.024553	27.928900	44.443800	6.466910	96.369199	3.812210	0.041586	0.404566	0.095844	0.008003	0.003912	0.263151	0.001377	0.026848	0.015626	0.004273	0.042726
22-Apr-2032	0.024553	27.941000	44.463100	6.469720	96.410984	3.813870	0.041604	0.404742	0.095885	0.008006	0.003914	0.263265	0.001378	0.026860	0.015633	0.004274	0.042744
23-Apr-2032	0.024553	27.951800	44.480200	6.472210	96.448205	3.815340	0.041620	0.404897	0.095922	0.008009	0.003915	0.263367	0.001378	0.026870	0.015639	0.004276	0.042761
24-Apr-2032	0.024553	27.961400	44.495500	6.474430	96.481319	3.816650	0.041634	0.405037	0.095955	0.008012	0.003917	0.263458	0.001379	0.026879	0.015644	0.004278	0.042776
25-Apr-2032	0.024553	27.970000	44.509200	6.476440	96.511070	3.817830	0.041647	0.405162	0.095985	0.008014	0.003918	0.263539	0.001379	0.026888	0.015649	0.004279	0.042789
26-Apr-2032	0.024553	27.977900	44.521700	6.478260	96.538291	3.818900	0.041659	0.405276	0.096012	0.008017	0.003919	0.263613	0.001379	0.026895	0.015654	0.004280	0.042801
27-Apr-2032	0.024553	27.985100	44.533200	6.479930	96.563146	3.819880	0.041670	0.405380	0.096037	0.008019	0.003920	0.263682	0.001380	0.026902	0.015658	0.004281	0.042812
28-Apr-2032	0.024553	27.991800	44.543800	6.481480	96.586259	3.820800	0.041680	0.405477	0.096060	0.008021	0.003921	0.263745	0.001380	0.026909	0.015661	0.004282	0.042822
29-Apr-2032	0.024569	27.998000	44.553800	6.482930	96.607712	3.821650	0.041689	0.405567	0.096081	0.008022	0.003922	0.263804	0.001380	0.026915	0.015665	0.004283	0.042832
30-Apr-2032	0.024742	28.003600	44.562700	6.484230	96.627048	3.822410	0.041697	0.405649	0.096100	0.008024	0.003923	0.263857	0.001381	0.026920	0.015668	0.004284	0.042840
1-May-2032	0.025715	28.005100	44.565100	6.484570	96.632194	3.822610	0.041699	0.405670	0.096105	0.008024	0.003923	0.263871	0.001381	0.026921	0.015669	0.004284	0.042843
2-May-2032	0.029395	27.969700	44.508800	6.476380	96.510074	3.817780	0.041647	0.405157	0.095984	0.008014	0.003918	0.263537	0.001379	0.026887	0.015649	0.004279	0.042788
3-May-2032	0.033181	27.825400	44.279000	6.442960	96.012133	3.798080	0.041432	0.403066	0.095489	0.007973	0.003898	0.262178	0.001372	0.026749	0.015568	0.004257	0.042568
4-May-2032	0.037011	27.541800	43.827700	6.377300	95.033596	3.759360	0.041010	0.398958	0.094516	0.007892	0.003858	0.259507	0.001358	0.026476	0.015410	0.004213	0.042134
5-May-2032	0.041366	27.325800	43.484000	6.327300	94.288344	3.729880	0.040688	0.395829	0.093775	0.007830	0.003828	0.257473	0.001347	0.026268	0.015289	0.004180	0.041803
6-May-2032	0.045425	26.915400	42.830900	6.232250	92.872159	3.673860	0.040077	0.389884	0.092366	0.007712	0.003770	0.253604	0.001327	0.025874	0.015059	0.004118	0.041175
7-May-2032	0.050278	26.453400	42.095800	6.125260	91.277960	3.610810	0.039389	0.383192	0.090780	0.007580	0.003706	0.249250	0.001304	0.025430	0.014801	0.004047	0.040469
8-May-2032	0.055004	25.974900	41.334500	6.014450	89.626830	3.545520	0.038677	0.376264	0.089138	0.007443	0.003638	0.244737	0.001281	0.024970	0.014533	0.003974	0.039737
9-May-2032	0.063811	25.504900	40.586700	5.905550	88.004790	3.481390	0.037977	0.369457	0.087524	0.007308	0.003573	0.240302	0.001258	0.024518	0.014270	0.003902	0.039018
10-May-2032	0.070960	25.047100	39.858500	5.799490	86.424909	3.418950	0.037296	0.362830	0.085952	0.007177	0.003508	0.235980	0.001235	0.024077	0.014014	0.003832	0.038318
11-May-2032	0.077684	24.598300	39.144400	5.695520	84.876106	3.357710	0.036628	0.356331	0.084411	0.007048	0.003445	0.231746	0.001213	0.023646	0.013763	0.003763	0.037631
12-May-2032	0.084836	24.125400	38.392000	5.585940	83.244025	3.293200	0.035924	0.349483	0.082787	0.006912	0.003379	0.227282	0.001190	0.023191	0.013498	0.003691	0.036907
13-May-2032	0.093079	23.294400	37.070700	5.393230	80.375438	3.179940	0.034688	0.337460	0.079932	0.006674	0.003262	0.219416	0.001149	0.022392	0.013034	0.003564	0.035636
14-May-2032	0.100139	22.831600	36.334400	5.285970	78.778130	3.116810	0.033999	0.330760	0.078342	0.006541	0.003197	0.215044	0.001126	0.021946	0.012775	0.003493	0.034928
15-May-2032	0.112363	22.359400	35.583300	5.176540	77.148414	3.052420	0.033296	0.323925	0.076720	0.006406	0.003131	0.210583	0.001103	0.021492	0.012510	0.003421	0.034206
16-May-2032	0.156515	21.891400	34.839000	5.068050	75.533056	2.988610	0.032600	0.317151	0.075113	0.006272	0.003065	0.206159	0.001080	0.021042	0.012249	0.003349	0.033490
17-May-2032	0.163938	21.441200	34.122900	4.963690	73.979152	2.927220	0.031930	0.310635	0.073566	0.006143	0.003002	0.201903	0.001057	0.020609	0.011997	0.003280	0.032802
18-May-2032	0.169212	21.026900	33.464000	4.867660	72.549193	2.870720	0.031314	0.304639	0.072143	0.006024	0.002944	0.197987	0.001037	0.020211	0.011765	0.003217	0.032168
19-May-2032	0.177614	19.807100	31.522900	4.585160	68.340018	2.704240	0.029498	0.286971	0.067956	0.005674	0.002773	0.186488	0.000977	0.019038	0.011083	0.003030	0.030302
20-May-2032	0.185822	18.522700	29.479200	4.287740	63.908095	2.528940	0.027585	0.268367	0.063549	0.005306	0.002593	0.174384	0.000913	0.017803	0.010364	0.002834	0.028337
21-May-2032	0.190316	16.701200	26.587100	3.863880	57.614354	2.281460	0.024882	0.242078	0.057271	0.004782	0.002335	0.156965	0.000824	0.016047	0.009346	0.002555	0.025552
22-May-2032	0.196939	16.347800	26.024200	3.782190	56.395515	2.233130	0.024355	0.236951	0.056062	0.004681	0.002286	0.153649	0.000806	0.015708	0.009148	0.002501	0.025011
23-May-2032	0.194466	15.996400	25.464300	3.701010	55.183770	2.185030	0.023830	0.231848	0.054861	0.004580	0.002237	0.150354	0.000789	0.015371	0.008952	0.002447	0.024473
24-May-2032	0.199776	15.663600	24.933700	3.624290	54.036835	2.139390	0.023333	0.227007	0.053730	0.004485	0.002191	0.147244	0.000773	0.015052	0.008765	0.002396	0.023963
25-May-2032	0.209556	15.420300	24.546300	3.568050	53.197719	2.106120	0.022970	0.223478	0.052897	0.004415	0.002157	0.144962	0.000761	0.014818	0.008629	0.002359	0.023591
26-May-2032	0.216898	15.187200	24.174900	3.514190	52.393873	2.074220	0.022623	0.220094	0.052100	0.004348	0.002125	0.142776	0.000749	0.014595	0.008498	0.002323	0.023234
27-May-2032	0.223821	14.971700	23.831400	3.464500	51.651146	2.044680	0.022301	0.216960	0.051367	0.004286	0.002095	0.140761	0.000738	0.014388	0.008378	0.002290	0.022904
28-May-2032	0.235934	14.818200	23.586000	3.429260	51.122738	2.023490	0.022070	0.214714	0.050851	0.004242	0.002074	0.139336	0.000731	0.014242	0.008292	0.002267	0.022668
29-May-2032	0.254243	14.619500	23.269400	3.383380	50.437650	1.996300	0.021773	0.211829	0.050172	0.004185	0.002046	0.137475	0.000721	0.014051	0.008180	0.002236	0.022364
30-May-2032	0.284716	16.174800	25.748600	3.742170	55.798732	2.209470	0.024097	0.234441	0.055469	0.004632	0.002262	0.152023	0.000798	0.015542	0.009051	0.002475	0.024746
31-May-2032	0.326678	14.759700	23.495200	3.415020	50.918023	2.016020	0.021987	0.213916	0.050623	0.004226	0.002064	0.138742	0.000728	0.014183	0.008259	0.002258	0.022581
1-Jun-2032	0.373126	14.460600	23.019100	3.345860	49.886370	1.975150	0.021542	0.209580	0.049598	0.004141	0.002023	0.135934	0.000713	0.013896	0.008092	0.002212	0.022123
2-Jun-2032	0.420398	14.107700	22.454900	3.265600	48.674668	1.926440	0.021012	0.204417	0.048442	0.004039	0.001976	0.132717	0.000696	0.013562	0.007894	0.002158	0.021581
3-Jun-2032	0.489319	13.834300	22.019500	3.201690	47.728807	1.889060	0.020604	0.200452	0.047495	0.003960	0.001937	0.130099	0.000682	0.013297	0.007741	0.002116	0.021164
4-Jun-2032	0.691419	13.494900	21.466900	3.126910	46.573381	1.840070	0.020077	0.195298	0.046506	0.003859	0.001898	0.127159	0.000665	0.012985	0.007549	0.002065	0.020651
5-Jun-2032	0.722487	13.233000	21.034200	3.071110	45.689632	1.800910	0.019659	0.191200	0.045759	0.003779	0.001868	0.125018	0.000651	0.012753	0.007400	0.002026	0.020259
6-Jun-2032	0.729585	13.017700	20.679100	3.024980	44.962065	1.770820	0.019327	0.187983	0.045166	0.003715	0.001845	0.123243	0.000640	0.012561	0.007277	0.001993	0.019932
7-Jun-2032	0.722876	12.740700	20.221200	2.967200	44.032458	1.729160	0.018884	0.183636	0.044464	0.003631	0.001818	0.121062	0.000626	0.012320	0.007119	0.001951	0.019510
8-Jun-2032	0.711240	12.518500	19.853800	2.920170	43.283955	1.694140	0.018517	0.180007	0.043911	0.003561	0.001796	0.119321	0.000614	0.012124	0.006993	0.001917	0.019171
9-Jun-2032	0.710883	12.315900	19.513300	2.877160	42.600947	1.662660	0.018184	0.176724	0.043391	0.003497	0.001776	0.117671	0.000603	0.011945	0.006877	0.001886	0.018861

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
10-Jun-2032	0.725941	12.081800	19.117600	2.829810	41.821412	1.625860	0.017795	0.172895	0.042811	0.003423	0.001753	0.115922	0.000590	0.011748	0.006742	0.001850	0.018504
11-Jun-2032	0.766313	11.781600	18.602900	2.771140	40.830210	1.577140	0.017284	0.167846	0.042272	0.003327	0.001733	0.113981	0.000573	0.011504	0.006568	0.001805	0.018047
12-Jun-2032	0.829728	11.539900	18.189100	2.723330	40.029803	1.538290	0.016877	0.163827	0.041781	0.003252	0.001713	0.112404	0.000560	0.011307	0.006429	0.001768	0.017680
13-Jun-2032	0.923899	11.326700	17.826100	2.680290	39.320204	1.504560	0.016523	0.160338	0.041371	0.003189	0.001696	0.111133	0.000548	0.011135	0.006306	0.001736	0.017357
14-Jun-2032	1.026266	11.152600	17.529800	2.644940	38.739905	1.477120	0.016236	0.157503	0.041053	0.003137	0.001679	0.109812	0.000539	0.010989	0.006207	0.001709	0.017093
15-Jun-2032	1.118466	10.973000	17.229000	2.607150	38.135825	1.449770	0.015947	0.154666	0.040868	0.003085	0.001664	0.108611	0.000529	0.010835	0.006104	0.001682	0.016821
16-Jun-2032	1.230278	10.830300	16.989800	2.577260	37.656416	1.428000	0.015718	0.152413	0.040715	0.003044	0.001648	0.107533	0.000521	0.010713	0.006023	0.001661	0.016606
17-Jun-2032	1.369819	10.681600	16.731200	2.548600	37.167090	1.403420	0.015463	0.149893	0.040539	0.002999	0.001637	0.106706	0.000513	0.010598	0.005937	0.001638	0.016382
18-Jun-2032	1.569551	10.544100	16.495600	2.521000	36.710096	1.381500	0.015235	0.147646	0.040380	0.002958	0.001627	0.105871	0.000505	0.010487	0.005858	0.001617	0.016175
19-Jun-2032	1.825698	10.332600	16.121900	2.481660	36.019978	1.345440	0.014865	0.143969	0.040320	0.002894	0.001616	0.104865	0.000493	0.010330	0.005736	0.001586	0.015855
20-Jun-2032	2.143185	10.167400	15.830000	2.450870	35.480680	1.317330	0.014577	0.141110	0.040144	0.002845	0.001605	0.104100	0.000483	0.010208	0.005640	0.001561	0.015606
21-Jun-2032	2.436458	9.970810	15.481300	2.414500	34.840024	1.283600	0.014231	0.137674	0.039943	0.002786	0.001594	0.103682	0.000472	0.010064	0.005526	0.001531	0.015309
22-Jun-2032	2.663197	9.819170	15.213300	2.385990	34.343974	1.257900	0.013968	0.135065	0.039775	0.002742	0.001585	0.104693	0.000463	0.009951	0.005438	0.001508	0.015080
23-Jun-2032	2.873936	9.714790	15.033300	2.365270	33.998012	1.241070	0.013794	0.133354	0.039656	0.002711	0.001577	0.105113	0.000457	0.009869	0.005378	0.001492	0.014924
24-Jun-2032	3.008310	9.529290	14.709300	2.329670	33.388218	1.210210	0.013476	0.130199	0.039617	0.002656	0.001565	0.105155	0.000447	0.009727	0.005271	0.001464	0.014644
25-Jun-2032	3.174938	9.390580	14.465700	2.303390	32.933638	1.186890	0.013236	0.127825	0.039570	0.002615	0.001556	0.105184	0.000439	0.009622	0.005191	0.001444	0.014435
26-Jun-2032	3.281060	9.117760	13.983500	2.252580	32.043171	1.140300	0.012756	0.123059	0.039387	0.002532	0.001545	0.104464	0.000423	0.009419	0.005032	0.001402	0.014022
27-Jun-2032	3.341280	8.940300	13.668500	2.219780	31.464983	1.109790	0.012443	0.119954	0.039285	0.002479	0.001538	0.104354	0.000413	0.009290	0.004929	0.001375	0.013754
28-Jun-2032	3.367332	8.767770	13.359600	2.188240	30.904294	1.079790	0.012138	0.116914	0.039209	0.002429	0.001533	0.104725	0.000402	0.009167	0.004829	0.001349	0.013493
29-Jun-2032	3.398184	8.682490	13.211200	2.171660	30.623073	1.065780	0.011994	0.115496	0.039130	0.002404	0.001527	0.105258	0.000398	0.009101	0.004780	0.001337	0.013367
30-Jun-2032	3.841260	8.093940	12.248200	2.043580	28.626031	0.982502	0.011130	0.107076	0.036958	0.002251	0.001456	0.102863	0.000368	0.008587	0.004451	0.001251	0.012515
1-Jul-2032	4.848349	7.137080	10.543100	1.866450	25.507330	0.815151	0.009398	0.089857	0.035774	0.001949	0.001427	0.100512	0.000311	0.007879	0.003892	0.001107	0.011066
2-Jul-2032	5.255447	7.032490	10.330900	1.847240	25.167062	0.794890	0.009214	0.088008	0.035350	0.001948	0.001419	0.101205	0.000304	0.007849	0.003836	0.001090	0.010900
3-Jul-2032	6.667406	7.071690	10.404000	1.853180	25.289405	0.802206	0.009287	0.088739	0.035082	0.001957	0.001414	0.100727	0.000307	0.007872	0.003859	0.001096	0.010961
4-Jul-2032	7.664477	7.333640	10.883000	1.893500	26.109532	0.850199	0.009765	0.093517	0.034781	0.002036	0.001408	0.095381	0.000323	0.008066	0.004017	0.001136	0.011356
5-Jul-2032	7.520589	7.292280	10.796400	1.888140	25.984184	0.841404	0.009685	0.092710	0.034832	0.002033	0.001411	0.095885	0.000320	0.008050	0.003993	0.001129	0.011289
6-Jul-2032	8.280330	7.291150	10.796500	1.888260	25.981856	0.841376	0.009683	0.092693	0.034721	0.002031	0.001408	0.094644	0.000320	0.008044	0.003992	0.001129	0.011288
7-Jul-2032	9.039545	7.287230	10.779600	1.889430	25.976886	0.839531	0.009673	0.092579	0.035029	0.002043	0.001415	0.095367	0.000319	0.008054	0.003989	0.001128	0.011276
8-Jul-2032	9.087747	7.497720	11.169800	1.921660	26.635203	0.878660	0.010059	0.096450	0.034959	0.002098	0.001415	0.095513	0.000332	0.008197	0.004116	0.001160	0.011597
9-Jul-2032	9.460403	7.422710	11.027900	1.911000	26.404005	0.864335	0.009920	0.095055	0.034867	0.002080	0.001417	0.096785	0.000327	0.008147	0.004070	0.001148	0.011481
10-Jul-2032	10.548405	7.467070	11.107700	1.918170	26.544298	0.872300	0.010001	0.095858	0.034923	0.002094	0.001417	0.096832	0.000330	0.008180	0.004097	0.001155	0.011548
11-Jul-2032	11.533482	7.453630	11.083100	1.916690	26.504644	0.869753	0.009975	0.095604	0.034882	0.002090	0.001417	0.096204	0.000329	0.008168	0.004088	0.001153	0.011526
12-Jul-2032	12.252088	7.757960	11.627600	1.964680	27.462178	0.924304	0.010529	0.101131	0.035358	0.002193	0.001420	0.095800	0.000347	0.008408	0.004273	0.001198	0.011982
13-Jul-2032	13.348561	7.791250	11.685000	1.970920	27.571000	0.929936	0.010588	0.101720	0.035396	0.002207	0.001421	0.094750	0.000349	0.008434	0.004293	0.001203	0.012030
14-Jul-2032	13.443946	7.862270	11.820200	1.981510	27.791946	0.943523	0.010719	0.103037	0.035442	0.002223	0.001422	0.094994	0.000354	0.008478	0.004335	0.001214	0.012140
15-Jul-2032	13.231317	7.835220	11.766100	1.978480	27.711925	0.938005	0.010668	0.102522	0.035401	0.002220	0.001422	0.094362	0.000352	0.008462	0.004318	0.001210	0.012096
16-Jul-2032	13.068422	7.913810	11.908500	1.990860	27.959145	0.952285	0.010811	0.103957	0.035502	0.002245	0.001424	0.094256	0.000357	0.008521	0.004366	0.001221	0.012214
17-Jul-2032	13.275046	7.957690	11.988300	1.998200	28.098940	0.960214	0.010891	0.104752	0.035541	0.002258	0.001425	0.094742	0.000359	0.008551	0.004392	0.001228	0.012279
18-Jul-2032	13.527553	8.257950	12.536400	2.044540	29.039517	1.015190	0.011441	0.110249	0.035951	0.002350	0.001432	0.094684	0.000378	0.008774	0.004574	0.001273	0.012733
19-Jul-2032	12.919543	7.877880	11.843900	1.988600	27.860121	0.945442	0.010744	0.103268	0.035307	0.002233	0.001425	0.094358	0.000355	0.008479	0.004341	0.001216	0.012156
20-Jul-2032	12.147642	7.904140	11.891100	1.993620	27.946365	0.950064	0.010791	0.103735	0.035290	0.002241	0.001426	0.096137	0.000356	0.008494	0.004355	0.001219	0.012193
21-Jul-2032	11.550184	7.946770	11.966700	2.001200	28.084026	0.957567	0.010867	0.104501	0.035318	0.002257	0.001427	0.096398	0.000359	0.008525	0.004380	0.001226	0.012255
22-Jul-2032	11.470563	7.994350	12.051700	2.009470	28.236889	0.966030	0.010953	0.105359	0.035351	0.002274	0.001429	0.096613	0.000362	0.008559	0.004409	0.001232	0.012324
23-Jul-2032	11.474328	8.115970	12.270700	2.028930	28.620711	0.987968	0.011175	0.107573	0.035508	0.002315	0.001432	0.097027	0.000369	0.008651	0.004482	0.001251	0.012506
24-Jul-2032	11.448193	8.110510	12.263000	2.028480	28.605224	0.987096	0.011165	0.107470	0.035469	0.002310	0.001432	0.096511	0.000369	0.008642	0.004478	0.001250	0.012499
25-Jul-2032	11.282891	8.194430	12.415500	2.041990	28.870407	1.002340	0.011317	0.108997	0.035562	0.002336	0.001434	0.097037	0.000374	0.008702	0.004528	0.001262	0.012625
26-Jul-2032	11.248796	8.219370	12.458100	2.046840	28.952654	1.006600	0.011363	0.109446	0.035563	0.002348	0.001435	0.096467	0.000375	0.008721	0.004543	0.001266	0.012659
27-Jul-2032	11.717524	8.321610	12.645400	2.062390	29.271982	1.025360	0.011549	0.111314	0.035711	0.002378	0.001437	0.095895	0.000381	0.008797	0.004605	0.001281	0.012815
28-Jul-2032	12.185305	8.238120	12.493800	2.049880	29.011991	1.010110	0.011397	0.109784	0.035572	0.002352	0.001435	0.096326	0.000376	0.008732	0.004554	0.001269	0.012688
29-Jul-2032	12.539545	8.308370	12.621900	2.060910	29.232827	1.022930	0.011525	0.111065	0.035662	0.002373	0.001437	0.097106	0.000381	0.008783	0.004596	0.001279	0.012795
30-Jul-2032	13.293839	8.873450	13.653100	2.148280	31.003622	1.126290	0.012558	0.121406	0.036449	0.002545	0.001449	0.096968	0.000415	0.009203	0.004938	0.001365	0.013650
31-Jul-2032	13.534203	8.650920	13.248100	2.115270	30.312029	1.085500	0.012150	0.117317	0.036067	0.002475	0.001445	0.096972	0.000402	0.009030	0.004801	0.001331	0.013312
1-Aug-2032	13.775811	8.734790	13.401100	2.128680	30.576675	1.100830	0.012303	0.118844	0.036148	0.002502	0.001447	0.097751	0.000407	0.009089	0.004852	0.001344	0.013437

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
2-Aug-2032	13.920139	8.571900	13.104100	2.105020	30.072507	1.070970	0.012005	0.115859	0.035836	0.002453	0.001443	0.097986	0.000397	0.008960	0.004751	0.001319	0.013187
3-Aug-2032	14.045637	8.703620	13.341800	2.126550	30.490072	1.094700	0.012244	0.118248	0.035994	0.002496	0.001447	0.096924	0.000405	0.009058	0.004830	0.001338	0.013384
4-Aug-2032	14.220718	8.727960	13.386200	2.130720	30.568021	1.099090	0.012288	0.118685	0.036009	0.002504	0.001448	0.096730	0.000406	0.009074	0.004845	0.001342	0.013420
5-Aug-2032	13.876307	8.853810	13.616100	2.151560	30.968088	1.121960	0.012516	0.120961	0.036119	0.002542	0.001451	0.097853	0.000414	0.009161	0.004919	0.001361	0.013609
6-Aug-2032	13.849334	8.938920	13.771300	2.164810	31.235171	1.137470	0.012671	0.122509	0.036238	0.002567	0.001453	0.098105	0.000419	0.009224	0.004971	0.001374	0.013738
7-Aug-2032	13.885187	8.709710	13.349500	2.134290	30.537152	1.094810	0.012247	0.118250	0.035702	0.002507	0.001450	0.099484	0.000405	0.009037	0.004827	0.001338	0.013381
8-Aug-2032	13.425239	8.856500	13.620900	2.156050	30.993294	1.122000	0.012516	0.120947	0.035922	0.002544	0.001452	0.099077	0.000414	0.009144	0.004916	0.001361	0.013606
9-Aug-2032	13.016011	8.988340	13.860100	2.176840	31.408112	1.145940	0.012756	0.123341	0.036096	0.002585	0.001455	0.098501	0.000422	0.009242	0.004996	0.001380	0.013805
10-Aug-2032	12.977661	8.860920	13.626500	2.158710	31.015285	1.122280	0.012520	0.120980	0.035880	0.002547	0.001454	0.098844	0.000414	0.009144	0.004917	0.001361	0.013611
11-Aug-2032	12.588864	9.038680	13.950200	2.187040	31.575815	1.154700	0.012844	0.124212	0.036069	0.002603	0.001457	0.097945	0.000425	0.009272	0.005024	0.001388	0.013877
12-Aug-2032	12.321513	9.171080	14.192200	2.208900	31.996437	1.178810	0.013084	0.126608	0.036180	0.002643	0.001461	0.098344	0.000433	0.009363	0.005103	0.001407	0.014075
13-Aug-2032	12.052693	8.999100	13.880800	2.183850	31.463847	1.147400	0.012769	0.123448	0.035854	0.002589	0.001457	0.099436	0.000423	0.009224	0.004996	0.001381	0.013812
14-Aug-2032	11.184536	9.099630	14.062100	2.200150	31.781994	1.165500	0.012950	0.125260	0.035967	0.002622	0.001460	0.098882	0.000429	0.009299	0.005057	0.001396	0.013963
15-Aug-2032	10.656276	9.130250	14.117100	2.205710	31.881348	1.170930	0.013004	0.125800	0.035975	0.002633	0.001461	0.098328	0.000431	0.009319	0.005075	0.001401	0.014008
16-Aug-2032	10.678132	9.209250	14.261500	2.219210	32.134204	1.185250	0.013147	0.127219	0.036021	0.002656	0.001463	0.099080	0.000435	0.009371	0.005121	0.001413	0.014125
17-Aug-2032	11.038492	9.079900	14.026400	2.200330	31.733469	1.161490	0.012909	0.124835	0.035795	0.002615	0.001461	0.099900	0.000428	0.009269	0.005041	0.001393	0.013929
18-Aug-2032	11.516772	9.106860	14.076000	2.205810	31.823355	1.166340	0.012956	0.125305	0.035760	0.002624	0.001461	0.100475	0.000429	0.009282	0.005056	0.001397	0.013968
19-Aug-2032	11.892186	9.261500	14.350800	2.233200	32.322283	1.193560	0.013230	0.128027	0.035896	0.002681	0.001467	0.099651	0.000438	0.009394	0.005147	0.001419	0.014193
20-Aug-2032	12.107454	9.735740	15.218800	2.304240	33.799003	1.280800	0.014100	0.136735	0.036592	0.002822	0.001476	0.100380	0.000467	0.009751	0.005436	0.001491	0.014914
21-Aug-2032	12.462867	9.513200	14.812900	2.271330	33.107797	1.239910	0.013691	0.132643	0.036228	0.002754	0.001472	0.099734	0.000454	0.009579	0.005300	0.001458	0.014576
22-Aug-2032	12.227533	9.576380	14.927200	2.282240	33.310485	1.251290	0.013804	0.133769	0.036252	0.002775	0.001473	0.100029	0.000458	0.009622	0.005337	0.001467	0.014669
23-Aug-2032	11.596484	9.282550	14.392100	2.240190	32.403630	1.197250	0.013263	0.128340	0.035681	0.002686	0.001468	0.100465	0.000440	0.009386	0.005155	0.001422	0.014218
24-Aug-2032	11.544970	9.274450	14.377300	2.239710	32.381427	1.195670	0.013247	0.128177	0.035654	0.002683	0.001468	0.100752	0.000439	0.009378	0.005150	0.001420	0.014204
25-Aug-2032	11.762189	9.388000	14.582800	2.258280	32.741433	1.216160	0.013451	0.130216	0.035743	0.002721	0.001471	0.100423	0.000446	0.009459	0.005218	0.001438	0.014375
26-Aug-2032	12.017771	9.391030	14.585200	2.260510	32.758182	1.216140	0.013452	0.130215	0.035722	0.002724	0.001472	0.100105	0.000446	0.009460	0.005218	0.001438	0.014378
27-Aug-2032	12.156971	9.415280	14.631800	2.264590	32.835536	1.220790	0.013497	0.130661	0.035692	0.002729	0.001472	0.100898	0.000448	0.009472	0.005232	0.001441	0.014413
28-Aug-2032	11.740296	9.459060	14.710100	2.273110	32.979940	1.228470	0.013573	0.131412	0.035669	0.002746	0.001474	0.101205	0.000450	0.009499	0.005257	0.001447	0.014473
29-Aug-2032	10.932939	9.500370	14.784800	2.280370	33.112988	1.235880	0.013646	0.132144	0.035681	0.002760	0.001475	0.101630	0.000453	0.009526	0.005281	0.001454	0.014536
30-Aug-2032	10.039559	9.643430	15.044700	2.302860	33.562822	1.261870	0.013906	0.134738	0.035871	0.002804	0.001478	0.101205	0.000462	0.009633	0.005368	0.001475	0.014751
31-Aug-2032	9.680574	9.628420	15.016800	2.301680	33.520483	1.258920	0.013876	0.134434	0.035803	0.002801	0.001479	0.100733	0.000461	0.009617	0.005357	0.001473	0.014726
1-Sep-2032	9.687048	9.596060	14.958700	2.297180	33.421149	1.253020	0.013816	0.133838	0.035729	0.002789	0.001478	0.101463	0.000459	0.009590	0.005337	0.001468	0.014678
2-Sep-2032	9.712014	9.565790	14.902300	2.294190	33.333252	1.247080	0.013758	0.133244	0.035671	0.002779	0.001479	0.100781	0.000457	0.009565	0.005317	0.001463	0.014632
3-Sep-2032	9.928568	9.942730	15.590800	2.351530	34.510597	1.316140	0.014447	0.140137	0.036205	0.002893	0.001486	0.101547	0.000480	0.009846	0.005546	0.001520	0.015203
4-Sep-2032	9.481727	9.669360	15.092200	2.310960	33.660925	1.266260	0.013946	0.135127	0.035685	0.002816	0.001480	0.102517	0.000463	0.009633	0.005379	0.001478	0.014782
5-Sep-2032	9.267743	10.003100	15.703300	2.361190	34.701121	1.327550	0.014558	0.141254	0.036202	0.002912	0.001487	0.102353	0.000484	0.009883	0.005582	0.001529	0.015291
6-Sep-2032	9.146494	10.157700	15.985100	2.385260	35.186278	1.355750	0.014840	0.144071	0.036418	0.002960	0.001490	0.102168	0.000493	0.009998	0.005675	0.001552	0.015525
7-Sep-2032	8.948364	10.156100	15.982800	2.385420	35.182941	1.355570	0.014837	0.144041	0.036365	0.002960	0.001490	0.102188	0.000493	0.009993	0.005674	0.001552	0.015520
8-Sep-2032	9.080349	10.178100	16.024600	2.388680	35.251300	1.359880	0.014879	0.144461	0.036358	0.002968	0.001490	0.102437	0.000494	0.010006	0.005687	0.001555	0.015553
9-Sep-2032	8.507847	10.144300	15.961900	2.384290	35.148823	1.353560	0.014815	0.143825	0.036275	0.002960	0.001489	0.102254	0.000492	0.009979	0.005666	0.001550	0.015499
10-Sep-2032	8.183182	10.107600	15.894100	2.379310	35.036676	1.346750	0.014747	0.143139	0.036186	0.002951	0.001488	0.102247	0.000490	0.009950	0.005643	0.001544	0.015441
11-Sep-2032	7.728255	9.939250	15.592100	2.353650	34.510638	1.316710	0.014444	0.140113	0.035845	0.002903	0.001484	0.102985	0.000480	0.009813	0.005541	0.001518	0.015184
12-Sep-2032	6.633976	10.263000	16.179300	2.403590	35.524695	1.375420	0.015032	0.145988	0.036343	0.002999	0.001491	0.102680	0.000500	0.010061	0.005737	0.001567	0.015674
13-Sep-2032	5.566578	10.109700	15.899800	2.380930	35.048591	1.347430	0.014751	0.143179	0.036052	0.002955	0.001487	0.102328	0.000490	0.009941	0.005643	0.001544	0.015439
14-Sep-2032	5.127276	10.185400	16.038300	2.392680	35.286000	1.361310	0.014889	0.144562	0.036148	0.002978	0.001489	0.102528	0.000495	0.009996	0.005689	0.001555	0.015553
15-Sep-2032	4.793615	10.240200	16.138500	2.401360	35.458580	1.371390	0.014989	0.145564	0.036197	0.002996	0.001490	0.102771	0.000498	0.010035	0.005722	0.001563	0.015634
16-Sep-2032	4.386244	10.215400	16.092500	2.397780	35.381912	1.366690	0.014943	0.145098	0.036175	0.002988	0.001490	0.102661	0.000497	0.010018	0.005707	0.001560	0.015597
17-Sep-2032	4.377587	10.332300	16.308000	2.415770	35.747894	1.388480	0.015158	0.147257	0.036273	0.003025	0.001491	0.103316	0.000504	0.010099	0.005777	0.001577	0.015772
18-Sep-2032	4.159190	10.645100	16.879100	2.463420	36.725178	1.445710	0.015730	0.152979	0.036747	0.003118	0.001498	0.103802	0.000523	0.010335	0.005967	0.001625	0.016247
19-Sep-2032	3.775369	10.573600	16.748200	2.452770	36.502786	1.432520	0.015599	0.151661	0.036641	0.003096	0.001497	0.103612	0.000519	0.010281	0.005924	0.001614	0.016139
20-Sep-2032	3.121057	10.490500	16.601300	2.440400	36.244346	1.418030	0.015451	0.150184	0.036396	0.003072	0.001493	0.103653	0.000514	0.010207	0.005872	0.001601	0.016009
21-Sep-2032	2.774636	10.455200	16.535100	2.435270	36.135076	1.411380	0.015385	0.149523	0.036353	0.003063	0.001493	0.103331	0.000512	0.010182	0.005851	0.001595	0.015955
22-Sep-2032	2.708604	11.109400	17.728900	2.535010	38.179343	1.531050	0.016580	0.161483	0.037331	0.003259	0.001507	0.105089	0.000551	0.010675	0.006248	0.001695	0.016948
23-Sep-2032	2.233622	10.804400	17.174300	2.488920	37.227959	1.475620	0.016024	0.155927	0.036789	0.003170	0.001499	0.104265	0.000533	0.010438	0.006062	0.001648	0.016482

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
24-Sep-2032	1.828656	10.663200	16.916300	2.467780	36.788328	1.449760	0.015766	0.153339	0.036555	0.003129	0.001496	0.103936	0.000524	0.010331	0.005976	0.001627	0.016266
25-Sep-2032	1.625860	10.641600	16.878000	2.464810	36.722163	1.445970	0.015727	0.152952	0.036483	0.003123	0.001495	0.104138	0.000523	0.010311	0.005963	0.001623	0.016232
26-Sep-2032	1.409306	10.796300	17.161100	2.488520	37.206086	1.474380	0.016010	0.155786	0.036690	0.003169	0.001499	0.104277	0.000533	0.010425	0.006057	0.001647	0.016466
27-Sep-2032	1.113588	10.806100	17.179300	2.490270	37.237764	1.476240	0.016028	0.155966	0.036673	0.003173	0.001499	0.104329	0.000533	0.010430	0.006062	0.001648	0.016480
28-Sep-2032	0.916141	10.752400	17.082700	2.482360	37.071101	1.466580	0.015931	0.154992	0.036558	0.003157	0.001497	0.104160	0.000530	0.010386	0.006029	0.001640	0.016397
29-Sep-2032	0.157313	10.735600	17.053700	2.479500	37.017374	1.464050	0.015904	0.154726	0.036461	0.003156	0.001495	0.104581	0.000529	0.010370	0.006019	0.001637	0.016368
30-Sep-2032	0.016228	10.910300	17.372500	2.506620	37.565280	1.496030	0.016223	0.157917	0.036680	0.003210	0.001499	0.104719	0.000540	0.010498	0.006125	0.001663	0.016631
1-Oct-2032	0.228749	10.925000	17.399300	2.508980	37.611705	1.498730	0.016249	0.158185	0.036693	0.003215	0.001499	0.104768	0.000541	0.010509	0.006134	0.001665	0.016653
2-Oct-2032	0.240275	10.854300	17.270600	2.498190	37.390734	1.485820	0.016120	0.156894	0.036586	0.003193	0.001497	0.104598	0.000536	0.010455	0.006091	0.001655	0.016546
3-Oct-2032	0.124390	10.795400	17.163800	2.488970	37.205692	1.475250	0.016014	0.155834	0.036480	0.003176	0.001495	0.104590	0.000533	0.010410	0.006055	0.001646	0.016456
4-Oct-2032	0.039293	10.747400	17.075700	2.481560	37.055322	1.466460	0.015926	0.154958	0.036418	0.003163	0.001494	0.104554	0.000530	0.010375	0.006026	0.001638	0.016383
5-Oct-2032	0.082543	10.733100	17.049600	2.479290	37.010267	1.463840	0.015900	0.154698	0.036398	0.003159	0.001494	0.104387	0.000529	0.010365	0.006018	0.001636	0.016361
6-Oct-2032	0.169098	10.703700	16.995800	2.474670	36.917830	1.458520	0.015847	0.154167	0.036395	0.003151	0.001494	0.104353	0.000527	0.010343	0.006000	0.001632	0.016316
7-Oct-2032	0.172269	10.698400	16.986000	2.473780	36.900931	1.457550	0.015837	0.154071	0.036348	0.003149	0.001493	0.104282	0.000527	0.010339	0.005997	0.001631	0.016308
8-Oct-2032	0.180279	10.672800	16.940400	2.469530	36.819506	1.453180	0.015793	0.153628	0.036320	0.003143	0.001492	0.104222	0.000525	0.010320	0.005982	0.001627	0.016268
9-Oct-2032	0.067461	10.664100	16.925200	2.467900	36.791070	1.451700	0.015778	0.153480	0.036298	0.003140	0.001491	0.104166	0.000525	0.010312	0.005977	0.001626	0.016255
10-Oct-2032	0.019335	10.637500	16.877400	2.463370	36.705995	1.447050	0.015731	0.153014	0.036244	0.003132	0.001490	0.104034	0.000523	0.010293	0.005961	0.001622	0.016215
11-Oct-2032	0.003854	10.601200	16.811400	2.457480	36.591099	1.440600	0.015666	0.152368	0.036164	0.003124	0.001489	0.103999	0.000521	0.010265	0.005939	0.001616	0.016159
12-Oct-2032	0.001400	10.585300	16.783000	2.454650	36.539743	1.437820	0.015638	0.152089	0.036163	0.003118	0.001488	0.103924	0.000520	0.010253	0.005930	0.001614	0.016135
13-Oct-2032	0.090969	10.568300	16.751700	2.451900	36.485969	1.434660	0.015607	0.151778	0.036150	0.003113	0.001488	0.103919	0.000519	0.010242	0.005920	0.001611	0.016110
14-Oct-2032	0.087721	10.565300	16.746200	2.451430	36.476543	1.434110	0.015601	0.151723	0.036147	0.003112	0.001488	0.103934	0.000519	0.010240	0.005918	0.001611	0.016106
15-Oct-2032	0.084371	10.561000	16.738100	2.450790	36.463170	1.433270	0.015593	0.151642	0.036146	0.003111	0.001488	0.103900	0.000519	0.010238	0.005916	0.001610	0.016100
16-Oct-2032	0.081373	10.577700	16.765600	2.454340	36.519489	1.435760	0.015619	0.151898	0.036185	0.003116	0.001489	0.104165	0.000520	0.010252	0.005925	0.001612	0.016125
17-Oct-2032	0.080069	10.653500	16.884400	2.472340	36.782886	1.445780	0.015729	0.152965	0.036459	0.003138	0.001501	0.105097	0.000523	0.010327	0.005967	0.001624	0.016241
18-Oct-2032	0.079676	10.745600	17.029600	2.493910	37.101685	1.458130	0.015864	0.154276	0.036782	0.003165	0.001514	0.106223	0.000528	0.010417	0.006019	0.001638	0.016381
19-Oct-2032	0.079190	10.839900	17.179300	2.515770	37.427171	1.470970	0.016004	0.155633	0.037103	0.003193	0.001527	0.107403	0.000532	0.010509	0.006072	0.001652	0.016525
20-Oct-2032	0.080294	10.916300	17.300200	2.533560	37.691201	1.481310	0.016117	0.156728	0.037365	0.003215	0.001538	0.108485	0.000536	0.010583	0.006114	0.001664	0.016641
21-Oct-2032	0.082098	10.791900	17.101100	2.506580	37.269471	1.464060	0.015930	0.154912	0.036961	0.003180	0.001532	0.109432	0.000530	0.010465	0.006044	0.001645	0.016452
22-Oct-2032	0.082826	10.845100	17.184800	2.517720	37.448186	1.471170	0.016008	0.155667	0.037149	0.003194	0.001546	0.110455	0.000532	0.010517	0.006074	0.001653	0.016533
23-Oct-2032	0.083197	10.872800	17.228800	2.524110	37.543667	1.474980	0.016049	0.156067	0.037242	0.003202	0.001559	0.111374	0.000534	0.010543	0.006090	0.001658	0.016575
24-Oct-2032	0.083537	10.901800	17.274200	2.531010	37.644494	1.478790	0.016091	0.156475	0.037345	0.003211	0.001571	0.112158	0.000535	0.010572	0.006106	0.001662	0.016619
25-Oct-2032	0.084446	10.929300	17.316900	2.537650	37.740505	1.482360	0.016130	0.156856	0.037444	0.003219	0.001573	0.111992	0.000537	0.010599	0.006121	0.001666	0.016661
26-Oct-2032	0.084746	10.947100	17.344800	2.548320	37.828890	1.484720	0.016156	0.157108	0.037506	0.003227	0.001579	0.112208	0.000537	0.010617	0.006131	0.001669	0.016688
27-Oct-2032	0.084662	10.980500	17.397800	2.565290	37.982173	1.489250	0.016206	0.157587	0.037624	0.003249	0.001587	0.112596	0.000539	0.010649	0.006150	0.001674	0.016739
28-Oct-2032	0.084574	11.023700	17.466400	2.580110	38.151072	1.495130	0.016270	0.158209	0.037868	0.003269	0.001593	0.112784	0.000541	0.010705	0.006174	0.001681	0.016805
29-Oct-2032	0.084483	11.064400	17.530700	2.597240	38.323241	1.500640	0.016329	0.158792	0.038139	0.003291	0.001601	0.113182	0.000543	0.010784	0.006197	0.001687	0.016867
30-Oct-2032	0.084574	11.119900	17.607200	2.615660	38.537678	1.507140	0.016401	0.159482	0.038419	0.003315	0.001611	0.113815	0.000546	0.010864	0.006224	0.001694	0.016941
31-Oct-2032	0.085003	11.193000	17.670300	2.632360	38.788979	1.512490	0.016459	0.160050	0.038666	0.003336	0.001621	0.114498	0.000547	0.010934	0.006251	0.001703	0.017033
1-Nov-2032	0.085349	11.274500	17.764300	2.652390	39.074969	1.520520	0.016547	0.160901	0.038954	0.003361	0.001634	0.115441	0.000550	0.011015	0.006296	0.001716	0.017157
2-Nov-2032	0.085372	11.359600	17.885600	2.674060	39.376700	1.529410	0.016643	0.161842	0.039263	0.003388	0.001648	0.116526	0.000554	0.011102	0.006343	0.001728	0.017284
3-Nov-2032	0.085631	11.422000	17.980400	2.689890	39.597701	1.538470	0.016742	0.162802	0.039490	0.003408	0.001658	0.117313	0.000557	0.011166	0.006377	0.001738	0.017379
4-Nov-2032	0.085815	11.509100	18.115300	2.711100	39.902533	1.546010	0.016829	0.163602	0.039799	0.003435	0.001672	0.118297	0.000560	0.011253	0.006425	0.001751	0.017510
5-Nov-2032	0.086509	11.604700	18.267500	2.733080	40.231759	1.553590	0.016971	0.164831	0.040124	0.003463	0.001685	0.119210	0.000565	0.011345	0.006479	0.001766	0.017656
6-Nov-2032	0.087177	11.641500	18.333900	2.739030	40.348151	1.561070	0.017036	0.165475	0.040223	0.003471	0.001687	0.119238	0.000567	0.011374	0.006501	0.001771	0.017715
7-Nov-2032	0.087675	11.726600	18.477400	2.755950	40.630322	1.572800	0.017173	0.166822	0.040488	0.003493	0.001696	0.119713	0.000571	0.011450	0.006550	0.001785	0.017847
8-Nov-2032	0.087653	11.815400	18.626600	2.773850	40.925768	1.586310	0.017315	0.168219	0.040766	0.003516	0.001705	0.120237	0.000576	0.011530	0.006601	0.001798	0.017985
9-Nov-2032	0.087311	11.906000	18.775400	2.793170	41.231556	1.599510	0.017455	0.169595	0.041061	0.003540	0.001715	0.120910	0.000581	0.011614	0.006653	0.001812	0.018124
10-Nov-2032	0.086845	11.992800	18.914800	2.812710	41.528761	1.611600	0.017586	0.170868	0.041353	0.003565	0.001727	0.121686	0.000585	0.011697	0.006702	0.001826	0.018257
11-Nov-2032	0.086490	12.075600	19.046500	2.831770	41.814002	1.622910	0.017709	0.172063	0.041637	0.003590	0.001738	0.122482	0.000589	0.011777	0.006748	0.001838	0.018384
12-Nov-2032	0.086174	12.163500	19.185900	2.852100	42.117207	1.634870	0.017839	0.173328	0.041938	0.003615	0.001751	0.123338	0.000593	0.011862	0.006798	0.001852	0.018518
13-Nov-2032	0.085956	12.262900	19.341600	2.875820	42.463088	1.648020	0.017983	0.174727	0.042284	0.003645	0.001765	0.124397	0.000598	0.011960	0.006853	0.001867	0.018669
14-Nov-2032	0.085988	12.350300	19.474800	2.897780	42.771757	1.658980	0.018105	0.175906	0.042599	0.003673	0.001780	0.125472	0.000602	0.012048	0.006901	0.001880	0.018800
15-Nov-2032	0.086195	12.414100	19.562700	2.916790	43.009349	1.665370	0.018182	0.176634	0.042861	0.003697	0.001794	0.126643	0.000605	0.012120	0.006934	0.001889	0.018894

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
16-Nov-2032	0.086433	12.449400	19.601300	2.930510	43.153992	1.667160	0.018212	0.176892	0.043041	0.003713	0.001806	0.127706	0.000606	0.012168	0.006951	0.001894	0.018943
17-Nov-2032	0.086462	12.487100	19.649400	2.942990	43.299522	1.670270	0.018252	0.177266	0.043210	0.003729	0.001816	0.128558	0.000607	0.012214	0.006971	0.001900	0.018997
18-Nov-2032	0.086432	12.438200	19.562200	2.934660	43.143115	1.661980	0.018167	0.176426	0.043076	0.003718	0.001813	0.128470	0.000604	0.012174	0.006942	0.001892	0.018920
19-Nov-2032	0.086389	12.498100	19.656500	2.948800	43.350914	1.669990	0.018255	0.177277	0.043284	0.003736	0.001822	0.129090	0.000607	0.012233	0.006975	0.001901	0.019011
20-Nov-2032	0.086349	12.566500	19.768400	2.963530	43.582367	1.679880	0.018361	0.178309	0.043506	0.003754	0.001830	0.129614	0.000611	0.012296	0.007014	0.001912	0.019117
21-Nov-2032	0.086457	12.635800	19.884400	2.977690	43.813720	1.690340	0.018471	0.179392	0.043723	0.003773	0.001837	0.130046	0.000614	0.012359	0.007054	0.001922	0.019224
22-Nov-2032	0.086530	12.698600	19.989700	2.990410	44.022913	1.699860	0.018571	0.180377	0.043918	0.003789	0.001844	0.130424	0.000618	0.012415	0.007090	0.001932	0.019321
23-Nov-2032	0.086663	12.755400	20.085300	3.001780	44.211564	1.708520	0.018662	0.181272	0.044093	0.003804	0.001850	0.130750	0.000621	0.012466	0.007123	0.001941	0.019409
24-Nov-2032	0.086462	12.802400	20.162100	3.011960	44.370844	1.715300	0.018735	0.181979	0.044246	0.003817	0.001855	0.131118	0.000623	0.012509	0.007149	0.001948	0.019482
25-Nov-2032	0.086443	12.876800	20.281100	3.028900	44.626380	1.725590	0.018846	0.183064	0.044497	0.003838	0.001865	0.131806	0.000627	0.012581	0.007191	0.001960	0.019595
26-Nov-2032	0.086330	12.952500	20.402300	3.046090	44.886191	1.736070	0.018959	0.184168	0.044753	0.003860	0.001876	0.132501	0.000631	0.012653	0.007234	0.001971	0.019711
27-Nov-2032	0.086370	13.022300	20.514500	3.061740	45.124928	1.745820	0.019064	0.185193	0.044986	0.003880	0.001885	0.133117	0.000634	0.012720	0.007273	0.001982	0.019818
28-Nov-2032	0.086431	13.086500	20.617700	3.076230	45.344906	1.754770	0.019161	0.186135	0.045202	0.003899	0.001893	0.133694	0.000637	0.012781	0.007309	0.001992	0.019916
29-Nov-2032	0.086503	12.856700	20.259100	3.021050	44.543864	1.724560	0.018829	0.182917	0.044397	0.003829	0.001858	0.131199	0.000626	0.012554	0.007182	0.001957	0.019568
30-Nov-2032	0.086322	12.913000	20.350100	3.033580	44.736043	1.732500	0.018915	0.183750	0.044584	0.003845	0.001866	0.131683	0.000629	0.012607	0.007213	0.001965	0.019654
1-Dec-2032	0.086343	12.976900	20.453300	3.047770	44.954036	1.741500	0.019011	0.184695	0.044796	0.003863	0.001874	0.132261	0.000632	0.012667	0.007250	0.001975	0.019752
2-Dec-2032	0.086508	13.053700	20.576600	3.065650	45.219436	1.752200	0.019127	0.185821	0.045059	0.003885	0.001885	0.133009	0.000636	0.012742	0.007293	0.001987	0.019869
3-Dec-2032	0.086489	13.133400	20.703000	3.083530	45.492076	1.763040	0.019245	0.186967	0.045326	0.003908	0.001895	0.133695	0.000640	0.012818	0.007337	0.001999	0.019991
4-Dec-2032	0.086291	12.910200	20.360500	3.028180	44.706815	1.734670	0.018930	0.183923	0.044527	0.003838	0.001859	0.131043	0.000630	0.012593	0.007214	0.001965	0.019654
5-Dec-2032	0.086255	12.981800	20.474800	3.044540	44.952970	1.744530	0.019037	0.184963	0.044770	0.003859	0.001869	0.131714	0.000633	0.012662	0.007255	0.001976	0.019763
6-Dec-2032	0.086276	13.052100	20.585200	3.061110	45.196745	1.753910	0.019139	0.185959	0.045013	0.003880	0.001879	0.132440	0.000637	0.012731	0.007294	0.001987	0.019870
7-Dec-2032	0.086310	13.125100	20.700300	3.078280	45.449732	1.763710	0.019246	0.186998	0.045265	0.003902	0.001890	0.133186	0.000640	0.012802	0.007335	0.001998	0.019981
8-Dec-2032	0.086401	13.204500	20.827100	3.096370	45.722488	1.774660	0.019365	0.188152	0.045534	0.003925	0.001901	0.133924	0.000644	0.012878	0.007379	0.002010	0.020102
9-Dec-2032	0.086388	13.275600	20.945500	3.111080	45.960601	1.785280	0.019477	0.189254	0.045759	0.003944	0.001908	0.134391	0.000648	0.012943	0.007420	0.002021	0.020213
10-Dec-2032	0.086279	13.339800	21.054800	3.123550	46.172260	1.795290	0.019582	0.190284	0.045954	0.003960	0.001914	0.134710	0.000651	0.012999	0.007457	0.002031	0.020312
11-Dec-2032	0.086267	13.401200	21.153600	3.137300	46.382198	1.803880	0.019674	0.191188	0.046159	0.003978	0.001923	0.135250	0.000654	0.013057	0.007492	0.002041	0.020406
12-Dec-2032	0.086264	13.446700	21.227500	3.147290	46.536950	1.810370	0.019744	0.191867	0.046309	0.003990	0.001928	0.135624	0.000657	0.013100	0.007518	0.002048	0.020476
13-Dec-2032	0.086216	13.484600	21.293700	3.154130	46.659754	1.816570	0.019808	0.192499	0.046419	0.003999	0.001931	0.135745	0.000659	0.013132	0.007540	0.002054	0.020536
14-Dec-2032	0.086267	13.536900	21.381800	3.164600	46.833462	1.824560	0.019892	0.193324	0.046581	0.004013	0.001936	0.136045	0.000662	0.013179	0.007570	0.002062	0.020617
15-Dec-2032	0.086262	13.589700	21.466800	3.176450	47.014102	1.831950	0.019971	0.194101	0.046758	0.004028	0.001943	0.136510	0.000664	0.013229	0.007600	0.002070	0.020698
16-Dec-2032	0.086168	13.629600	21.529600	3.185850	47.152442	1.837290	0.020030	0.194668	0.046896	0.004040	0.001949	0.136921	0.000666	0.013268	0.007622	0.002076	0.020759
17-Dec-2032	0.086197	13.675900	21.598800	3.197890	47.317633	1.842860	0.020093	0.195273	0.047067	0.004055	0.001957	0.137544	0.000668	0.013316	0.007647	0.002083	0.020828
18-Dec-2032	0.086247	13.717000	21.663900	3.207460	47.459669	1.848430	0.020153	0.195863	0.047208	0.004067	0.001963	0.137951	0.000670	0.013356	0.007671	0.002089	0.020891
19-Dec-2032	0.086217	13.751700	21.726800	3.212940	47.568882	1.854510	0.020215	0.196475	0.047300	0.004074	0.001965	0.137962	0.000672	0.013384	0.007691	0.002095	0.020946
20-Dec-2032	0.086254	13.806100	21.820600	3.223160	47.746805	1.863190	0.020305	0.197364	0.047462	0.004088	0.001969	0.138188	0.000675	0.013431	0.007723	0.002103	0.021031
21-Dec-2032	0.086201	13.863500	21.916500	3.234910	47.938519	1.871830	0.020396	0.198259	0.047643	0.004103	0.001975	0.138549	0.000678	0.013482	0.007756	0.002112	0.021120
22-Dec-2032	0.086092	13.879700	21.946700	3.237240	47.988565	1.874810	0.020426	0.198557	0.047684	0.004106	0.001976	0.138524	0.000679	0.013495	0.007766	0.002115	0.021146
23-Dec-2032	0.086168	13.917700	22.009500	3.245190	48.116189	1.880410	0.020486	0.199139	0.047805	0.004116	0.001980	0.138787	0.000681	0.013529	0.007788	0.002120	0.021204
24-Dec-2032	0.086128	13.957400	22.074600	3.253750	48.250570	1.886160	0.020547	0.199740	0.047934	0.004127	0.001985	0.139092	0.000683	0.013566	0.007810	0.002127	0.021265
25-Dec-2032	0.086075	13.978500	22.110200	3.257900	48.320347	1.889420	0.020581	0.200075	0.047999	0.004132	0.001987	0.139204	0.000685	0.013585	0.007822	0.002130	0.021298
26-Dec-2032	0.086127	14.008500	22.159500	3.264330	48.421735	1.893780	0.020628	0.200530	0.048096	0.004141	0.001991	0.139430	0.000686	0.013613	0.007839	0.002134	0.021344
27-Dec-2032	0.086096	14.015800	22.173500	3.265250	48.443752	1.895190	0.020642	0.200670	0.048113	0.004142	0.001991	0.139403	0.000687	0.013618	0.007844	0.002136	0.021356
28-Dec-2032	0.086070	14.040900	22.214200	3.270760	48.529117	1.898760	0.020680	0.201044	0.048196	0.004149	0.001994	0.139608	0.000688	0.013642	0.007858	0.002139	0.021395
29-Dec-2032	0.086145	14.103100	22.329700	3.280550	48.724746	1.910100	0.020794	0.202179	0.048359	0.004161	0.002000	0.140014	0.000692	0.013689	0.007896	0.002149	0.021494
30-Dec-2032	0.086098	14.194600	22.474600	3.301070	49.037722	1.922490	0.020929	0.203491	0.048673	0.004188	0.002009	0.140497	0.000696	0.013778	0.007947	0.002163	0.021634
31-Dec-2032	0.086043	14.183000	22.440000	3.303610	49.019217	1.918130	0.020890	0.203092	0.048681	0.004191	0.002014	0.140988	0.000695	0.013779	0.007938	0.002161	0.021612
1-Jan-2033	0.086091	14.232100	22.517700	3.315010	49.188765	1.924780	0.020963	0.203795	0.048849	0.004205	0.002021	0.141473	0.000697	0.013827	0.007965	0.002169	0.021686
2-Jan-2033	0.086079	14.287400	22.604900	3.327940	49.380095	1.932220	0.021044	0.204584	0.049039	0.004221	0.002028	0.142030	0.000700	0.013881	0.007996	0.002177	0.021770
3-Jan-2033	0.086038	14.335700	22.681000	3.339340	49.547645	1.938690	0.021115	0.205270	0.049207	0.004236	0.002035	0.142527	0.000702	0.013928	0.008023	0.002184	0.021844
4-Jan-2033	0.086083	14.380400	22.751100	3.349920	49.702829	1.944630	0.021180	0.205902	0.049362	0.004249	0.002042	0.142995	0.000705	0.013972	0.008048	0.002191	0.021912
5-Jan-2033	0.086088	14.435700	22.838000	3.363000	49.894777	1.952010	0.021260	0.206685	0.049554	0.004266	0.002050	0.143569	0.000707	0.014026	0.008079	0.002200	0.021996
6-Jan-2033	0.086030	14.495500	22.932300	3.377050	50.101955	1.960030	0.021348	0.207536	0.049760	0.004284	0.002059	0.144179	0.000710	0.014084	0.008112	0.002209	0.022087
7-Jan-2033	0.086064	14.550200	23.018700	3.389860	50.291293	1.967400	0.021428	0.208317	0.049949	0.004300	0.002067	0.144732	0.000713	0.014138	0.008143	0.002217	0.022170

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
8-Jan-2033	0.086095	14.609900	23.112800	3.403880	50.498098	1.975420	0.021516	0.209168	0.050155	0.004318	0.002075	0.145339	0.000716	0.014196	0.008176	0.002226	0.022261
9-Jan-2033	0.086048	14.677900	23.219900	3.419860	50.733700	1.984530	0.021615	0.210134	0.050389	0.004338	0.002085	0.146034	0.000719	0.014262	0.008214	0.002236	0.022365
10-Jan-2033	0.086047	14.738600	23.315500	3.434110	50.943949	1.992670	0.021704	0.210997	0.050599	0.004356	0.002094	0.146653	0.000722	0.014321	0.008248	0.002246	0.022457
11-Jan-2033	0.086088	14.797700	23.408700	3.447990	51.148680	2.000610	0.021791	0.211839	0.050803	0.004374	0.002102	0.147254	0.000725	0.014379	0.008281	0.002255	0.022547
12-Jan-2033	0.086060	14.865600	23.515700	3.463920	51.383826	2.009720	0.021890	0.212805	0.051037	0.004394	0.002112	0.147945	0.000728	0.014445	0.008319	0.002265	0.022650
13-Jan-2033	0.086031	14.932800	23.621700	3.479730	51.616730	2.018740	0.021989	0.213762	0.051269	0.004414	0.002122	0.148632	0.000731	0.014511	0.008357	0.002275	0.022753
14-Jan-2033	0.086090	15.001100	23.728900	3.495860	51.853698	2.027850	0.022088	0.214729	0.051506	0.004434	0.002132	0.149340	0.000735	0.014578	0.008395	0.002286	0.022856
15-Jan-2033	0.086092	15.073800	23.843100	3.513100	52.106224	2.037530	0.022194	0.215758	0.051758	0.004456	0.002143	0.150101	0.000738	0.014649	0.008435	0.002297	0.022967
16-Jan-2033	0.086061	15.147100	23.958300	3.530390	52.360455	2.047310	0.022301	0.216796	0.052012	0.004478	0.002153	0.150858	0.000742	0.014721	0.008476	0.002308	0.023078
17-Jan-2033	0.086103	15.217800	24.069900	3.547000	52.605393	2.056810	0.022405	0.217804	0.052256	0.004499	0.002163	0.151578	0.000745	0.014790	0.008516	0.002319	0.023186
18-Jan-2033	0.086118	15.288300	24.181300	3.563450	52.849172	2.066330	0.022509	0.218812	0.052498	0.004520	0.002174	0.152283	0.000749	0.014859	0.008555	0.002329	0.023294
19-Jan-2033	0.086080	15.359500	24.294200	3.579960	53.094947	2.076000	0.022614	0.219835	0.052742	0.004541	0.002184	0.152981	0.000752	0.014928	0.008595	0.002340	0.023402
20-Jan-2033	0.086091	15.422400	24.394400	3.594400	53.311472	2.084620	0.022707	0.220745	0.052956	0.004559	0.002192	0.153579	0.000755	0.014988	0.008630	0.002350	0.023498
21-Jan-2033	0.086116	15.471200	24.473000	3.605300	53.478212	2.091460	0.022781	0.221464	0.053119	0.004573	0.002199	0.154004	0.000758	0.015034	0.008658	0.002357	0.023573
22-Jan-2033	0.086104	15.517600	24.548200	3.615490	53.636035	2.098060	0.022852	0.222155	0.053272	0.004586	0.002204	0.154387	0.000760	0.015078	0.008684	0.002364	0.023644
23-Jan-2033	0.086086	15.584600	24.655300	3.630790	53.866339	2.107300	0.022952	0.223129	0.053499	0.004606	0.002213	0.155013	0.000763	0.015142	0.008722	0.002375	0.023747
24-Jan-2033	0.086114	15.659000	24.773700	3.647850	54.122369	2.117490	0.023062	0.224205	0.053751	0.004627	0.002224	0.155719	0.000767	0.015214	0.008764	0.002386	0.023860
25-Jan-2033	0.086117	15.741100	24.904400	3.666740	54.405162	2.128720	0.023184	0.225392	0.054031	0.004651	0.002235	0.156505	0.000771	0.015293	0.008810	0.002399	0.023985
26-Jan-2033	0.086111	15.829900	25.045700	3.687220	54.711232	2.140860	0.023316	0.226674	0.054333	0.004677	0.002247	0.157360	0.000776	0.015379	0.008860	0.002412	0.024121
27-Jan-2033	0.086102	15.938500	25.218100	3.712280	55.085604	2.155670	0.023477	0.228239	0.054704	0.004709	0.002263	0.158409	0.000781	0.015484	0.008920	0.002429	0.024287
28-Jan-2033	0.086102	16.060300	25.411500	3.740440	55.505701	2.172250	0.023657	0.229992	0.055120	0.004745	0.002280	0.159593	0.000787	0.015602	0.008989	0.002447	0.024472
29-Jan-2033	0.086112	16.194100	25.623700	3.771420	55.967375	2.190440	0.023855	0.231916	0.055577	0.004784	0.002298	0.160900	0.000794	0.015731	0.009064	0.002468	0.024676
30-Jan-2033	0.086115	16.329400	25.838300	3.802770	56.434319	2.208820	0.024055	0.233860	0.056040	0.004824	0.002317	0.162224	0.000800	0.015862	0.009140	0.002488	0.024883
31-Jan-2033	0.086118	16.465600	26.054200	3.834360	56.904498	2.227320	0.024256	0.235817	0.056506	0.004864	0.002337	0.163561	0.000807	0.015994	0.009216	0.002509	0.025090
1-Feb-2033	0.086121	16.630900	26.316300	3.872680	57.475054	2.249780	0.024500	0.238193	0.057071	0.004913	0.002360	0.165180	0.000815	0.016155	0.009308	0.002534	0.025342
2-Feb-2033	0.086125	16.809700	26.599800	3.914160	58.092332	2.274060	0.024765	0.240761	0.057684	0.004965	0.002385	0.166935	0.000824	0.016328	0.009409	0.002562	0.025615
3-Feb-2033	0.086127	17.002900	26.906000	3.958970	58.759280	2.300270	0.025050	0.243535	0.058345	0.005022	0.002412	0.168832	0.000833	0.016515	0.009517	0.002591	0.025909
4-Feb-2033	0.086122	17.208200	27.231500	4.006620	59.468137	2.328150	0.025353	0.246484	0.059048	0.005083	0.002441	0.170849	0.000843	0.016714	0.009632	0.002622	0.026223
5-Feb-2033	0.086114	17.428000	27.579700	4.057620	60.226995	2.357960	0.025677	0.249639	0.059800	0.005147	0.002472	0.173010	0.000854	0.016927	0.009755	0.002656	0.026558
6-Feb-2033	0.086115	17.661200	27.949200	4.111790	61.032368	2.389590	0.026022	0.252985	0.060599	0.005216	0.002505	0.175309	0.000866	0.017153	0.009886	0.002691	0.026913
7-Feb-2033	0.086115	17.901700	28.330200	4.167660	61.862969	2.422190	0.026376	0.256436	0.061423	0.005287	0.002539	0.177681	0.000877	0.017387	0.010020	0.002728	0.027280
8-Feb-2033	0.086111	18.153000	28.728100	4.226060	62.730956	2.456240	0.026747	0.260040	0.062284	0.005361	0.002574	0.180162	0.000890	0.017631	0.010161	0.002766	0.027663
9-Feb-2033	0.086117	18.419800	29.150600	4.288140	63.652801	2.492380	0.027140	0.263865	0.063199	0.005440	0.002612	0.182804	0.000903	0.017890	0.010310	0.002807	0.028069
10-Feb-2033	0.086122	18.694400	29.585200	4.352020	64.601535	2.529550	0.027545	0.267799	0.064141	0.005521	0.002651	0.185525	0.000916	0.018156	0.010464	0.002849	0.028488
11-Feb-2033	0.086118	18.972800	30.025800	4.416810	65.563505	2.567220	0.027955	0.271787	0.065096	0.005603	0.002691	0.188285	0.000930	0.018427	0.010620	0.002891	0.028912
12-Feb-2033	0.086117	19.252700	30.468800	4.481980	66.530786	2.605090	0.028368	0.275797	0.066056	0.005686	0.002730	0.191064	0.000944	0.018698	0.010777	0.002934	0.029339
13-Feb-2033	0.086122	19.532300	30.911200	4.547100	67.497111	2.642920	0.028780	0.279801	0.067016	0.005768	0.002770	0.193842	0.000957	0.018970	0.010933	0.002976	0.029765
14-Feb-2033	0.086122	19.812300	31.354300	4.612300	68.464765	2.680790	0.029192	0.283811	0.067977	0.005851	0.002810	0.196623	0.000971	0.019242	0.011090	0.003019	0.030191
15-Feb-2033	0.086118	20.091000	31.795300	4.677210	69.427978	2.718490	0.029603	0.287803	0.068933	0.005933	0.002849	0.199393	0.000985	0.019513	0.011246	0.003062	0.030616
16-Feb-2033	0.086118	20.369700	32.236200	4.742110	70.391150	2.756190	0.030013	0.291794	0.069890	0.006016	0.002889	0.202161	0.000998	0.019783	0.011402	0.003104	0.031041
17-Feb-2033	0.086117	20.646900	32.674800	4.806660	71.349135	2.793680	0.030421	0.295763	0.070841	0.006097	0.002928	0.204915	0.001012	0.020053	0.011557	0.003146	0.031463
18-Feb-2033	0.086116	20.921500	33.109300	4.870620	72.298199	2.830820	0.030826	0.299696	0.071784	0.006179	0.002967	0.207644	0.001025	0.020319	0.011711	0.003188	0.031881
19-Feb-2033	0.086116	21.194000	33.540500	4.934100	73.240042	2.867670	0.031227	0.303598	0.072719	0.006259	0.003006	0.210353	0.001039	0.020584	0.011863	0.003230	0.032297
20-Feb-2033	0.086116	21.461400	33.963500	4.996360	74.164126	2.903840	0.031621	0.307427	0.073636	0.006338	0.003044	0.213010	0.001052	0.020844	0.012013	0.003270	0.032704
21-Feb-2033	0.086115	21.724700	34.380200	5.057680	75.074102	2.939470	0.032009	0.311199	0.074540	0.006416	0.003081	0.215625	0.001065	0.021100	0.012160	0.003311	0.033105
22-Feb-2033	0.086121	21.993800	34.806000	5.120380	76.004243	2.975860	0.032406	0.315052	0.075464	0.006495	0.003119	0.218301	0.001078	0.021361	0.012311	0.003352	0.033515
23-Feb-2033	0.086120	22.268900	35.241200	5.184500	76.955214	3.013040	0.032811	0.318990	0.076409	0.006577	0.003158	0.221041	0.001091	0.021629	0.012465	0.003393	0.033935
24-Feb-2033	0.086120	22.544500	35.677000	5.248740	77.907928	3.050290	0.033216	0.322934	0.077355	0.006658	0.003198	0.223787	0.001105	0.021896	0.012619	0.003435	0.034354
25-Feb-2033	0.086120	22.818100	36.109700	5.312470	78.853547	3.087270	0.033619	0.326850	0.078294	0.006739	0.003236	0.226509	0.001118	0.022162	0.012772	0.003477	0.034771
26-Feb-2033	0.086120	23.091700	36.542600	5.376230	79.799290	3.124260	0.034022	0.330767	0.079233	0.006820	0.003275	0.229231	0.001132	0.022428	0.012925	0.003519	0.035188
27-Feb-2033	0.086120	23.365600	36.975900	5.440050	80.746029	3.161290	0.034425	0.334688	0.080174	0.006901	0.003314	0.231957	0.001145	0.022694	0.013078	0.003561	0.035605
28-Feb-2033	0.086119	23.639900	37.409800	5.503960	81.694138	3.198380	0.034829	0.338615	0.081115	0.006982	0.003353	0.234686	0.001159	0.022961	0.013232	0.003602	0.036023
1-Mar-2033	0.086119	23.918200	37.850000	5.568830	82.656187	3.235990	0.035239	0.342598	0.082071	0.007064	0.003393	0.237458	0.001172	0.023231	0.013388	0.003645	0.036447

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
2-Mar-2033	0.086119	24.198400	38.293200	5.634110	83.624670	3.273880	0.035652	0.346609	0.083033	0.007147	0.003433	0.240246	0.001186	0.023504	0.013544	0.003687	0.036874
3-Mar-2033	0.086119	24.479100	38.737400	5.699500	84.594854	3.311840	0.036065	0.350629	0.083997	0.007230	0.003472	0.243037	0.001200	0.023776	0.013702	0.003730	0.037302
4-Mar-2033	0.086119	24.761000	39.183300	5.765160	85.569146	3.349960	0.036480	0.354665	0.084964	0.007313	0.003512	0.245839	0.001214	0.024050	0.013859	0.003773	0.037732
5-Mar-2033	0.086119	25.044300	39.631600	5.831150	86.548293	3.388280	0.036898	0.358722	0.085936	0.007397	0.003553	0.248655	0.001227	0.024325	0.014018	0.003816	0.038163
6-Mar-2033	0.086119	25.329300	40.082600	5.897530	87.533291	3.426820	0.037317	0.362803	0.086915	0.007481	0.003593	0.251488	0.001241	0.024602	0.014177	0.003860	0.038598
7-Mar-2033	0.086119	25.616400	40.536800	5.964400	88.525550	3.465650	0.037740	0.366915	0.087900	0.007566	0.003634	0.254341	0.001255	0.024881	0.014338	0.003904	0.039035
8-Mar-2033	0.086106	19.480800	30.827200	4.535890	67.322353	2.635520	0.028700	0.279028	0.066847	0.005754	0.002764	0.193432	0.000955	0.018922	0.010904	0.002969	0.029685
9-Mar-2033	0.086105	19.674700	31.134100	4.581040	67.992449	2.661760	0.028986	0.281806	0.067513	0.005811	0.002791	0.195357	0.000964	0.019110	0.011012	0.002998	0.029981
10-Mar-2033	0.086105	19.874600	31.450400	4.627570	68.683209	2.688810	0.029281	0.284669	0.068198	0.005870	0.002819	0.197341	0.000974	0.019304	0.011124	0.003029	0.030286
11-Mar-2033	0.086105	20.080300	31.775900	4.675460	69.394053	2.716640	0.029584	0.287616	0.068904	0.005931	0.002849	0.199382	0.000984	0.019504	0.011239	0.003060	0.030599
12-Mar-2033	0.086104	20.291800	32.110700	4.724710	70.124980	2.745260	0.029895	0.290646	0.069630	0.005993	0.002879	0.201482	0.000994	0.019710	0.011358	0.003092	0.030921
13-Mar-2033	0.086104	20.509100	32.454600	4.775300	70.875908	2.774660	0.030216	0.293759	0.070375	0.006058	0.002909	0.203639	0.001005	0.019921	0.011479	0.003125	0.031252
14-Mar-2033	0.086104	20.732200	32.807700	4.827250	71.646919	2.804850	0.030544	0.296955	0.071141	0.006124	0.002941	0.205853	0.001016	0.020137	0.011604	0.003159	0.031592
15-Mar-2033	0.086103	20.961400	33.170400	4.880610	72.438968	2.835860	0.030882	0.300238	0.071928	0.006191	0.002974	0.208129	0.001027	0.020360	0.011733	0.003194	0.031942
16-Mar-2033	0.086103	21.197400	33.543800	4.935530	73.254420	2.867780	0.031230	0.303617	0.072737	0.006261	0.003007	0.210471	0.001039	0.020589	0.011865	0.003230	0.032301
17-Mar-2033	0.086103	21.439200	33.926400	4.991840	74.090080	2.900500	0.031586	0.307081	0.073567	0.006332	0.003041	0.212871	0.001051	0.020824	0.012000	0.003267	0.032670
18-Mar-2033	0.086102	21.687500	34.319300	5.049640	74.948105	2.934090	0.031952	0.310637	0.074419	0.006406	0.003077	0.215336	0.001063	0.021065	0.012139	0.003305	0.033048
19-Mar-2033	0.086102	21.942100	34.722400	5.108940	75.828039	2.968550	0.032327	0.314285	0.075293	0.006481	0.003113	0.217865	0.001075	0.021312	0.012282	0.003344	0.033436
20-Mar-2033	0.086102	22.203700	35.136200	5.169830	76.731999	3.003930	0.032712	0.318031	0.076190	0.006558	0.003150	0.220461	0.001088	0.021566	0.012428	0.003383	0.033835
21-Mar-2033	0.086102	22.472000	35.560800	5.232300	77.659195	3.040230	0.033108	0.321875	0.077111	0.006637	0.003188	0.223125	0.001101	0.021827	0.012578	0.003424	0.034244
22-Mar-2033	0.086102	22.747500	35.996800	5.296440	78.611247	3.077500	0.033513	0.325821	0.078056	0.006719	0.003227	0.225860	0.001115	0.022095	0.012732	0.003466	0.034663
23-Mar-2033	0.086102	23.030000	36.443800	5.362220	79.587532	3.115720	0.033930	0.329867	0.079025	0.006802	0.003267	0.228665	0.001129	0.022369	0.012890	0.003509	0.035094
24-Mar-2033	0.086102	23.316700	36.897600	5.428990	80.578381	3.154510	0.034352	0.333974	0.080009	0.006887	0.003308	0.231513	0.001143	0.022648	0.013051	0.003553	0.035531
25-Mar-2033	0.086102	23.610800	37.362900	5.497460	81.594708	3.194290	0.034785	0.338186	0.081018	0.006974	0.003349	0.234432	0.001157	0.022933	0.013215	0.003598	0.035979
26-Mar-2033	0.086101	23.912000	37.839600	5.567590	82.635600	3.235050	0.035229	0.342500	0.082052	0.007063	0.003392	0.237423	0.001172	0.023226	0.013384	0.003644	0.036438
27-Mar-2033	0.086101	24.220800	38.328200	5.639490	83.702757	3.276820	0.035684	0.346923	0.083112	0.007154	0.003436	0.240489	0.001187	0.023526	0.013557	0.003691	0.036908
28-Mar-2033	0.086101	24.537400	38.829200	5.713200	84.796845	3.319660	0.036150	0.351458	0.084198	0.007247	0.003481	0.243632	0.001203	0.023833	0.013734	0.003739	0.037391
29-Mar-2033	0.086101	24.861900	39.342800	5.788760	85.918278	3.363560	0.036629	0.356107	0.085311	0.007343	0.003527	0.246854	0.001218	0.024148	0.013916	0.003789	0.037885
30-Mar-2033	0.086101	25.194400	39.869000	5.866180	87.067346	3.408550	0.037119	0.360869	0.086452	0.007441	0.003574	0.250155	0.001235	0.024471	0.014102	0.003839	0.038392
31-Mar-2033	0.086101	25.535400	40.408600	5.945580	88.245792	3.454680	0.037621	0.365754	0.087622	0.007542	0.003622	0.253541	0.001251	0.024803	0.014293	0.003891	0.038912
1-Apr-2033	0.086101	25.885600	40.962700	6.027110	89.455982	3.502060	0.038137	0.370769	0.088824	0.007646	0.003672	0.257018	0.001269	0.025143	0.014489	0.003945	0.039445
2-Apr-2033	0.086101	26.235500	41.516400	6.108570	90.665135	3.549400	0.038652	0.375781	0.090025	0.007749	0.003722	0.260492	0.001286	0.025483	0.014685	0.003998	0.039978
3-Apr-2033	0.086101	26.546900	42.009200	6.181080	91.741297	3.591530	0.039111	0.380241	0.091093	0.007841	0.003766	0.263583	0.001301	0.025785	0.014859	0.004045	0.040453
4-Apr-2033	0.086100	26.808100	42.422600	6.241910	92.644011	3.626870	0.039496	0.383984	0.091990	0.007918	0.003803	0.266177	0.001314	0.026039	0.015005	0.004085	0.040851
5-Apr-2033	0.086100	27.023400	42.763300	6.292040	93.388051	3.656000	0.039813	0.387067	0.092728	0.007982	0.003834	0.268315	0.001324	0.026248	0.015126	0.004118	0.041179
6-Apr-2033	0.086100	27.200500	43.043500	6.333260	94.000013	3.679950	0.040074	0.389603	0.093336	0.008034	0.003859	0.270073	0.001333	0.026420	0.015225	0.004145	0.041449
7-Apr-2033	0.086100	27.346500	43.274500	6.367250	94.504546	3.699700	0.040289	0.391694	0.093837	0.008077	0.003879	0.271523	0.001340	0.026562	0.015306	0.004167	0.041671
8-Apr-2033	0.086100	27.467300	43.465700	6.395390	94.922064	3.716050	0.040467	0.393425	0.094252	0.008113	0.003896	0.272723	0.001346	0.026679	0.015374	0.004186	0.041856
9-Apr-2033	0.086100	27.567900	43.624900	6.418810	95.269706	3.729660	0.040615	0.394866	0.094597	0.008142	0.003911	0.273722	0.001351	0.026777	0.015430	0.004201	0.042009
10-Apr-2033	0.086100	27.649700	43.754400	6.437870	95.552450	3.740730	0.040736	0.396038	0.094878	0.008167	0.003922	0.274534	0.001355	0.026856	0.015476	0.004213	0.042134
11-Apr-2033	0.086100	27.718200	43.862700	6.453810	95.789135	3.749990	0.040837	0.397018	0.095112	0.008187	0.003932	0.275214	0.001358	0.026923	0.015514	0.004224	0.042238
12-Apr-2033	0.086100	27.775500	43.953400	6.467160	95.987188	3.757740	0.040921	0.397839	0.095309	0.008204	0.003940	0.275784	0.001361	0.026978	0.015547	0.004233	0.042325
13-Apr-2033	0.086100	27.823800	44.029800	6.478400	96.154080	3.764270	0.040992	0.398530	0.095475	0.008218	0.003947	0.276263	0.001364	0.027025	0.015574	0.004240	0.042399
14-Apr-2033	0.086099	27.864500	44.094200	6.487880	96.294746	3.769780	0.041052	0.399113	0.095615	0.008230	0.003953	0.276668	0.001366	0.027065	0.015596	0.004246	0.042461
15-Apr-2033	0.086099	27.899200	44.149000	6.495950	96.414625	3.774470	0.041103	0.399610	0.095734	0.008240	0.003958	0.277012	0.001367	0.027099	0.015616	0.004251	0.042514
16-Apr-2033	0.086099	27.928900	44.196100	6.502890	96.517364	3.778490	0.041147	0.400036	0.095836	0.008249	0.003962	0.277308	0.001369	0.027127	0.015632	0.004256	0.042559
17-Apr-2033	0.086099	27.954600	44.236800	6.508860	96.606122	3.781960	0.041185	0.400404	0.095924	0.008257	0.003966	0.277563	0.001370	0.027152	0.015647	0.004260	0.042598
18-Apr-2033	0.086099	27.976800	44.271900	6.514040	96.682886	3.784970	0.041218	0.400722	0.096000	0.008263	0.003969	0.277784	0.001371	0.027174	0.015659	0.004263	0.042632
19-Apr-2033	0.086099	27.996200	44.302600	6.518560	96.749941	3.787600	0.041246	0.401000	0.096067	0.008269	0.003972	0.277977	0.001372	0.027193	0.015670	0.004266	0.042662
20-Apr-2033	0.086099	28.013300	44.329600	6.522540	96.809030	3.789900	0.041271	0.401244	0.096125	0.008274	0.003974	0.278147	0.001373	0.027209	0.015680	0.004269	0.042688
21-Apr-2033	0.086099	28.028400	44.353500	6.526060	96.861230	3.791950	0.041294	0.401461	0.096177	0.008279	0.003976	0.278297	0.001374	0.027224	0.015688	0.004271	0.042711
22-Apr-2033	0.086099	28.041900	44.374900	6.529200	96.907870	3.793770	0.041314	0.401653	0.096223	0.008282	0.003978	0.278431	0.001374	0.027237	0.015696	0.004273	0.042731
23-Apr-2033	0.086099	28.054000	44.394000	6.532020	96.949696	3.795410	0.041331	0.401827	0.096265	0.008286	0.003980	0.278552	0.001375	0.027249	0.015702	0.004275	0.042750

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
24-Apr-2033	0.086099	28.065000	44.411500	6.534600	96.987788	3.796900	0.041348	0.401985	0.096303	0.008289	0.003981	0.278661	0.001375	0.027260	0.015709	0.004277	0.042766
25-Apr-2033	0.086099	28.075100	44.427400	6.536940	97.022644	3.798260	0.041362	0.402129	0.096338	0.008292	0.003983	0.278762	0.001376	0.027269	0.015714	0.004278	0.042782
26-Apr-2033	0.086098	28.084400	44.442100	6.539110	97.054802	3.799520	0.041376	0.402262	0.096369	0.008295	0.003984	0.278854	0.001376	0.027279	0.015719	0.004280	0.042796
27-Apr-2033	0.086098	28.093100	44.455800	6.541120	97.084803	3.800690	0.041389	0.402386	0.096399	0.008298	0.003985	0.278940	0.001377	0.027287	0.015724	0.004281	0.042809
28-Apr-2033	0.086098	28.101200	44.468600	6.543010	97.112812	3.801780	0.041401	0.402502	0.096427	0.008300	0.003986	0.279021	0.001377	0.027295	0.015729	0.004282	0.042821
29-Apr-2033	0.086098	28.108800	44.480700	6.544800	97.139160	3.802820	0.041412	0.402612	0.096453	0.008302	0.003988	0.279097	0.001378	0.027302	0.015733	0.004283	0.042833
30-Apr-2033	0.086118	28.116100	44.492300	6.546490	97.164348	3.803800	0.041423	0.402716	0.096478	0.008304	0.003989	0.279170	0.001378	0.027309	0.015737	0.004284	0.042844
1-May-2033	0.086841	28.123300	44.503700	6.548180	97.189285	3.804780	0.041433	0.402819	0.096503	0.008307	0.003990	0.279242	0.001378	0.027316	0.015741	0.004286	0.042855
2-May-2033	0.090566	28.106800	44.477500	6.544320	97.132189	3.802540	0.041409	0.402582	0.096446	0.008302	0.003987	0.279078	0.001377	0.027300	0.015732	0.004283	0.042830
3-May-2033	0.093981	27.974200	44.267600	6.513460	96.674006	3.784600	0.041214	0.400683	0.095991	0.008263	0.003968	0.277762	0.001371	0.027171	0.015658	0.004263	0.042628
4-May-2033	0.097304	27.709300	43.848400	6.451800	95.758635	3.748750	0.040823	0.396888	0.095083	0.008184	0.003931	0.275134	0.001358	0.026914	0.015509	0.004222	0.042224
5-May-2033	0.101078	27.309500	43.215700	6.358710	94.376989	3.694660	0.040234	0.391161	0.093711	0.008066	0.003874	0.271165	0.001338	0.026526	0.015286	0.004162	0.041615
6-May-2033	0.105263	27.049000	42.803500	6.298060	93.476764	3.659410	0.039851	0.387430	0.092817	0.007989	0.003837	0.268579	0.001326	0.026273	0.015140	0.004122	0.041218
7-May-2033	0.110774	26.581300	42.063500	6.189150	91.860426	3.596160	0.039162	0.380732	0.091212	0.007851	0.003771	0.263932	0.001303	0.025819	0.014878	0.004051	0.040505
8-May-2033	0.116353	26.096100	41.295900	6.076130	90.183465	3.530540	0.038447	0.373785	0.089547	0.007708	0.003702	0.259108	0.001279	0.025347	0.014607	0.003977	0.039766
9-May-2033	0.126296	25.610600	40.527800	5.963020	88.505385	3.464890	0.037732	0.366833	0.087880	0.007564	0.003633	0.254279	0.001255	0.024875	0.014335	0.003903	0.039026
10-May-2033	0.135401	25.148600	39.797000	5.855370	86.908468	3.402440	0.037052	0.360220	0.086294	0.007428	0.003567	0.249681	0.001233	0.024427	0.014076	0.003832	0.038322
11-May-2033	0.144232	24.680700	39.056900	5.746320	85.291054	3.339190	0.036363	0.353523	0.084687	0.007289	0.003501	0.245022	0.001210	0.023972	0.013815	0.003761	0.037610
12-May-2033	0.150411	24.224000	38.334400	5.639920	83.712519	3.277440	0.035690	0.346985	0.083119	0.007154	0.003436	0.240479	0.001187	0.023528	0.013559	0.003691	0.036914
13-May-2033	0.158634	23.419000	37.061600	5.452100	80.928991	3.168720	0.034506	0.335470	0.080353	0.006916	0.003321	0.232438	0.001148	0.022745	0.013109	0.003569	0.035687
14-May-2033	0.165002	22.913600	36.262300	5.334300	79.181907	3.100430	0.033762	0.328238	0.078618	0.006767	0.003249	0.227402	0.001123	0.022254	0.012826	0.003492	0.034917
15-May-2033	0.172157	22.441800	35.516100	5.224310	77.550883	3.036660	0.033067	0.321485	0.076998	0.006627	0.003182	0.222701	0.001100	0.021795	0.012562	0.003420	0.034198
16-May-2033	0.184203	21.953500	34.743800	5.110450	75.862723	2.970680	0.032348	0.314497	0.075320	0.006483	0.003113	0.217833	0.001076	0.021321	0.012288	0.003345	0.033454
17-May-2033	0.205296	21.541100	34.091600	5.014320	74.437096	2.914960	0.031741	0.308597	0.073904	0.006361	0.003054	0.213723	0.001056	0.020920	0.012058	0.003283	0.032826
18-May-2033	0.206795	21.060400	33.331500	4.902230	72.775202	2.850010	0.031034	0.301719	0.072253	0.006219	0.002986	0.208928	0.001032	0.020453	0.011789	0.003209	0.032094
19-May-2033	0.214950	17.855300	28.255600	4.157180	61.703951	2.415730	0.026307	0.255755	0.061267	0.005274	0.002533	0.177262	0.000875	0.017342	0.009994	0.002721	0.027209
20-May-2033	0.223899	16.972800	26.871700	3.947680	58.637628	2.298490	0.025023	0.243294	0.058201	0.005008	0.002403	0.167975	0.000832	0.016476	0.009502	0.002587	0.025867
21-May-2033	0.231313	16.630500	26.329600	3.868110	57.455235	2.252090	0.024518	0.238384	0.057029	0.004907	0.002354	0.164591	0.000816	0.016144	0.009311	0.002535	0.025345
22-May-2033	0.247568	16.431200	26.013900	3.821830	56.767002	2.225070	0.024224	0.235524	0.056348	0.004848	0.002326	0.162623	0.000806	0.015951	0.009199	0.002504	0.025042
23-May-2033	0.257190	16.143800	25.558200	3.755220	55.775065	2.185990	0.023799	0.231389	0.055370	0.004763	0.002286	0.159796	0.000792	0.015672	0.009038	0.002460	0.024603
24-May-2033	0.272141	15.806700	25.024200	3.676900	54.610804	2.140280	0.023301	0.226551	0.054218	0.004664	0.002238	0.156466	0.000775	0.015346	0.008849	0.002409	0.024089
25-May-2033	0.291569	15.527000	24.581100	3.611880	53.644641	2.102360	0.022888	0.222538	0.053260	0.004581	0.002199	0.153702	0.000761	0.015074	0.008693	0.002366	0.023663
26-May-2033	0.306248	15.318800	24.251000	3.563630	52.926072	2.074070	0.022581	0.219545	0.052551	0.004520	0.002170	0.151655	0.000751	0.014873	0.008576	0.002334	0.023345
27-May-2033	0.319040	15.093600	23.893700	3.511480	52.148994	2.043410	0.022247	0.216301	0.051787	0.004453	0.002138	0.149442	0.000740	0.014655	0.008450	0.002300	0.023001
28-May-2033	0.341066	14.932300	23.637900	3.474080	51.592215	2.021470	0.022009	0.213980	0.051238	0.004405	0.002115	0.147852	0.000732	0.014499	0.008359	0.002275	0.022755
29-May-2033	0.375172	15.791200	25.000300	3.673050	54.556246	2.138350	0.023280	0.226345	0.054155	0.004659	0.002236	0.156298	0.000774	0.015330	0.008841	0.002407	0.024066
30-May-2033	0.411432	16.378400	25.930500	3.809470	56.584262	2.217950	0.024146	0.234769	0.056166	0.004833	0.002318	0.162093	0.000803	0.015899	0.009169	0.002496	0.024961
31-May-2033	0.447720	14.832800	23.482300	3.450380	51.246166	2.008410	0.021866	0.212594	0.050875	0.004377	0.002100	0.146836	0.000727	0.014400	0.008304	0.002261	0.022605
1-Jun-2033	0.479391	14.510400	22.971600	3.375420	50.132448	1.964730	0.021390	0.207970	0.049769	0.004281	0.002055	0.143649	0.000712	0.014087	0.008123	0.002211	0.022114
2-Jun-2033	0.507888	14.177600	22.441900	3.298870	48.986214	1.919060	0.020894	0.203143	0.048657	0.004182	0.002009	0.140416	0.000695	0.013767	0.007937	0.002160	0.021604
3-Jun-2033	0.557835	13.884400	21.974100	3.231820	47.977982	1.878900	0.020457	0.198893	0.047698	0.004095	0.001970	0.137591	0.000681	0.013487	0.007772	0.002116	0.021160
4-Jun-2033	0.734149	13.567800	21.466800	3.160050	46.891883	1.834380	0.019978	0.194212	0.046783	0.003999	0.001933	0.134622	0.000665	0.013187	0.007594	0.002068	0.020682
5-Jun-2033	0.837831	13.301900	21.029500	3.103120	45.993492	1.794870	0.019557	0.190082	0.045976	0.003915	0.001900	0.132265	0.000651	0.012948	0.007442	0.002029	0.020285
6-Jun-2033	0.991019	13.068000	20.656200	3.055160	45.211945	1.762550	0.019207	0.186671	0.045442	0.003845	0.001879	0.130380	0.000639	0.012747	0.007310	0.001993	0.019933
7-Jun-2033	1.270011	12.785600	20.191400	2.989350	44.235787	1.720480	0.018759	0.182272	0.044641	0.003756	0.001848	0.127697	0.000624	0.012472	0.007149	0.001950	0.019504
8-Jun-2033	1.515848	12.610900	19.900400	2.953080	43.650201	1.693730	0.018476	0.179482	0.044090	0.003699	0.001826	0.126114	0.000615	0.012320	0.007049	0.001924	0.019239
9-Jun-2033	1.686141	12.439500	19.612500	2.918210	43.078620	1.666970	0.018194	0.176699	0.043637	0.003643	0.001807	0.124744	0.000606	0.012173	0.006950	0.001898	0.018979
10-Jun-2033	1.785233	12.180600	19.170500	2.867470	42.223200	1.625140	0.017756	0.172369	0.043135	0.003557	0.001788	0.122841	0.000591	0.011961	0.006800	0.001859	0.018586
11-Jun-2033	1.877567	11.824300	18.561700	2.797580	41.045712	1.567580	0.017155	0.166413	0.042453	0.003440	0.001761	0.120305	0.000572	0.011670	0.006594	0.001805	0.018046
12-Jun-2033	1.940820	11.517400	18.041100	2.735890	40.025343	1.518980	0.016645	0.161381	0.041872	0.003342	0.001737	0.118113	0.000555	0.011415	0.006417	0.001758	0.017581
13-Jun-2033	1.971272	11.238200	17.562700	2.680960	39.101979	1.473860	0.016174	0.156723	0.041398	0.003254	0.001718	0.116474	0.000539	0.011189	0.006256	0.001716	0.017159
14-Jun-2033	1.992138	11.076500	17.294300	2.646430	38.556019	1.449660	0.015918	0.154211	0.041169	0.003206	0.001702	0.115101	0.000531	0.011048	0.006164	0.001692	0.016916
15-Jun-2033	2.017258	10.939300	17.076000	2.614410	38.081572	1.431150	0.015719	0.152283	0.041011	0.003168	0.001688	0.114004	0.000524	0.010917	0.006087	0.001671	0.016710

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
16-Jun-2033	2.077124	10.784200	16.809600	2.583690	37.567783	1.406160	0.015460	0.149724	0.040784	0.003121	0.001674	0.113006	0.000515	0.010793	0.005998	0.001648	0.016477
17-Jun-2033	2.181898	10.591900	16.470000	2.548150	36.941256	1.373210	0.015121	0.146348	0.040563	0.003061	0.001662	0.112055	0.000504	0.010651	0.005886	0.001619	0.016188
18-Jun-2033	2.337064	10.433000	16.191700	2.517940	36.420078	1.346550	0.014846	0.143622	0.040432	0.003012	0.001652	0.111210	0.000495	0.010530	0.005794	0.001595	0.015949
19-Jun-2033	2.524394	10.291100	15.941600	2.491280	35.955968	1.322520	0.014599	0.141173	0.040297	0.002969	0.001640	0.110309	0.000487	0.010425	0.005712	0.001574	0.015736
20-Jun-2033	2.716533	10.148300	15.689800	2.464410	35.488745	1.298290	0.014350	0.138697	0.040085	0.002926	0.001630	0.109612	0.000478	0.010319	0.005629	0.001552	0.015521
21-Jun-2033	2.884529	9.983800	15.401000	2.433280	34.949796	1.270560	0.014065	0.135859	0.039920	0.002876	0.001620	0.108766	0.000469	0.010195	0.005534	0.001527	0.015273
22-Jun-2033	3.008746	9.835580	15.143300	2.404520	34.461257	1.246120	0.013812	0.133358	0.039772	0.002831	0.001610	0.107949	0.000461	0.010081	0.005449	0.001505	0.015051
23-Jun-2033	3.132128	9.670350	14.855800	2.372540	33.916984	1.218810	0.013530	0.130563	0.039587	0.002781	0.001599	0.107036	0.000451	0.009953	0.005353	0.001480	0.014803
24-Jun-2033	3.290343	9.526700	14.606000	2.344790	33.444015	1.195030	0.013284	0.128123	0.039508	0.002737	0.001589	0.106434	0.000443	0.009842	0.005270	0.001459	0.014588
25-Jun-2033	3.481464	9.374060	14.339400	2.315620	32.942751	1.169520	0.013021	0.125507	0.039399	0.002690	0.001580	0.106305	0.000434	0.009725	0.005182	0.001436	0.014359
26-Jun-2033	3.711100	9.263320	14.146100	2.294330	32.578561	1.151080	0.012831	0.123621	0.039236	0.002657	0.001573	0.105823	0.000428	0.009640	0.005118	0.001419	0.014193
27-Jun-2033	3.947562	9.077320	13.817600	2.259450	31.970483	1.119390	0.012505	0.120380	0.039111	0.002601	0.001562	0.105233	0.000417	0.009503	0.005010	0.001391	0.013912
28-Jun-2033	4.134381	8.854940	13.425400	2.217590	31.242821	1.081620	0.012116	0.116519	0.039031	0.002533	0.001549	0.104719	0.000404	0.009338	0.004881	0.001358	0.013577
29-Jun-2033	4.266597	8.682910	13.122600	2.185050	30.679262	1.052540	0.011817	0.113550	0.038878	0.002482	0.001540	0.104651	0.000394	0.009210	0.004782	0.001332	0.013318
30-Jun-2033	5.644207	7.572580	11.223600	1.962490	26.990266	0.875388	0.009976	0.095368	0.036253	0.002144	0.001449	0.103988	0.000333	0.008310	0.004144	0.001168	0.011676
1-Jul-2033	7.346173	7.239830	10.643100	1.895070	25.881754	0.820932	0.009418	0.089849	0.035200	0.002057	0.001423	0.100070	0.000314	0.008062	0.003956	0.001118	0.011177
2-Jul-2033	8.245088	7.129690	10.434600	1.873500	25.517909	0.800974	0.009219	0.087870	0.034741	0.002040	0.001418	0.097644	0.000307	0.008008	0.003895	0.001101	0.011009
3-Jul-2033	9.052174	7.182010	10.533300	1.881050	25.679643	0.810980	0.009317	0.088854	0.034778	0.002054	0.001418	0.096403	0.000311	0.008043	0.003927	0.001109	0.011089
4-Jul-2033	9.845368	7.163280	10.496600	1.875860	25.611502	0.807907	0.009284	0.088534	0.034724	0.002059	0.001416	0.097813	0.000310	0.008038	0.003919	0.001106	0.011057
5-Jul-2033	10.468343	7.243980	10.643500	1.888120	25.863496	0.822684	0.009432	0.090013	0.034843	0.002085	0.001417	0.098255	0.000315	0.008100	0.003968	0.001118	0.011179
6-Jul-2033	11.011858	7.287640	10.727600	1.895370	26.002371	0.831045	0.009513	0.090828	0.034824	0.002093	0.001418	0.097614	0.000317	0.008122	0.003993	0.001125	0.011245
7-Jul-2033	10.790928	7.252500	10.663600	1.890700	25.895395	0.824566	0.009449	0.090179	0.034735	0.002082	0.001417	0.096143	0.000315	0.008092	0.003971	0.001119	0.011191
8-Jul-2033	10.365676	7.332240	10.809300	1.903410	26.146846	0.839127	0.009594	0.091633	0.034822	0.002106	0.001419	0.097206	0.000320	0.008149	0.004019	0.001131	0.011311
9-Jul-2033	10.353918	7.453370	11.028400	1.922290	26.527055	0.861068	0.009814	0.093835	0.035000	0.002145	0.001422	0.097777	0.000327	0.008241	0.004092	0.001149	0.011494
10-Jul-2033	10.381432	7.595830	11.288800	1.944410	26.973868	0.887162	0.010075	0.096442	0.035187	0.002188	0.001425	0.097226	0.000336	0.008346	0.004178	0.001171	0.011709
11-Jul-2033	10.873414	7.551940	11.207700	1.938290	26.839072	0.878994	0.009994	0.095630	0.035106	0.002176	0.001425	0.096863	0.000333	0.008312	0.004151	0.001164	0.011641
12-Jul-2033	12.023629	7.490330	11.094600	1.929420	26.648706	0.867552	0.009880	0.094489	0.034994	0.002158	0.001423	0.097291	0.000330	0.008264	0.004113	0.001155	0.011547
13-Jul-2033	12.996228	7.603870	11.298400	1.948120	27.009222	0.887860	0.010085	0.096535	0.035132	0.002196	0.001427	0.097359	0.000336	0.008350	0.004181	0.001172	0.011716
14-Jul-2033	12.901592	7.839990	11.734100	1.984340	27.747967	0.931560	0.010519	0.100884	0.035419	0.002263	0.001431	0.097662	0.000351	0.008517	0.004323	0.001208	0.012076
15-Jul-2033	12.792724	7.697140	11.469000	1.963720	27.306358	0.904836	0.010255	0.098231	0.035200	0.002224	0.001429	0.096667	0.000342	0.008413	0.004236	0.001186	0.011856
16-Jul-2033	13.088570	7.784790	11.628200	1.977570	27.582254	0.920786	0.010415	0.099829	0.035317	0.002252	0.001431	0.097076	0.000347	0.008478	0.004289	0.001199	0.011988
17-Jul-2033	13.917295	7.910280	11.857800	1.996950	27.975409	0.943802	0.010644	0.102125	0.035475	0.002289	0.001434	0.097056	0.000355	0.008569	0.004365	0.001218	0.012177
18-Jul-2033	14.392566	7.904300	11.846000	1.997080	27.961013	0.942471	0.010632	0.101997	0.035441	0.002288	0.001434	0.096698	0.000355	0.008562	0.004360	0.001217	0.012167
19-Jul-2033	14.323903	7.975040	11.974900	2.008440	28.184431	0.955347	0.010761	0.103285	0.035520	0.002309	0.001436	0.096882	0.000359	0.008613	0.004403	0.001227	0.012274
20-Jul-2033	14.628026	7.984170	11.992600	2.010560	28.215959	0.957040	0.010777	0.103447	0.035488	0.002311	0.001436	0.096888	0.000360	0.008614	0.004407	0.001229	0.012287
21-Jul-2033	15.217150	7.942530	11.917000	2.004780	28.088181	0.949370	0.010700	0.102680	0.035404	0.002298	0.001436	0.098301	0.000357	0.008580	0.004381	0.001222	0.012223
22-Jul-2033	16.023947	7.963580	11.956400	2.009170	28.158821	0.953205	0.010739	0.103058	0.035366	0.002304	0.001436	0.098555	0.000358	0.008589	0.004392	0.001225	0.012253
23-Jul-2033	16.132679	8.270180	12.509100	2.057120	29.121860	1.008700	0.011296	0.108630	0.035809	0.002406	0.001444	0.098284	0.000377	0.008824	0.004578	0.001271	0.012712
24-Jul-2033	16.433317	8.314240	12.590200	2.064780	29.263421	1.016700	0.011376	0.109430	0.035830	0.002418	0.001445	0.097900	0.000380	0.008852	0.004604	0.001278	0.012779
25-Jul-2033	15.583188	8.201080	12.384600	2.047750	28.910731	0.996086	0.011170	0.107366	0.035630	0.002384	0.001442	0.097946	0.000373	0.008764	0.004535	0.001261	0.012607
26-Jul-2033	14.920705	8.323310	12.608400	2.066570	29.293440	1.018550	0.011394	0.109609	0.035787	0.002421	0.001445	0.097841	0.000380	0.008853	0.004609	0.001279	0.012792
27-Jul-2033	14.480305	8.396430	12.741200	2.078420	29.524819	1.031810	0.011527	0.110937	0.035869	0.002443	0.001447	0.098419	0.000385	0.008906	0.004653	0.001290	0.012901
28-Jul-2033	13.975568	8.291760	12.550700	2.063920	29.203747	1.012460	0.011334	0.108999	0.035655	0.002410	0.001445	0.097740	0.000378	0.008821	0.004587	0.001274	0.012742
29-Jul-2033	13.076863	8.339310	12.637400	2.071950	29.355547	1.021130	0.011421	0.109867	0.035679	0.002426	0.001446	0.098369	0.000381	0.008853	0.004615	0.001281	0.012812
30-Jul-2033	12.698295	8.389710	12.728500	2.080410	29.516234	1.030230	0.011512	0.110780	0.035718	0.002443	0.001447	0.098310	0.000384	0.008888	0.004645	0.001289	0.012887
31-Jul-2033	11.977151	8.378360	12.710600	2.078680	29.480769	1.028590	0.011495	0.110606	0.035637	0.002439	0.001447	0.099180	0.000384	0.008873	0.004638	0.001287	0.012868
1-Aug-2033	12.042184	8.560550	13.038600	2.108300	30.057673	1.061240	0.011823	0.113887	0.035880	0.002498	0.001452	0.100091	0.000395	0.009010	0.004747	0.001314	0.013141
2-Aug-2033	12.417984	8.685020	13.267700	2.127460	30.447375	1.084200	0.012052	0.116174	0.036035	0.002534	0.001454	0.099509	0.000402	0.009100	0.004823	0.001333	0.013330
3-Aug-2033	13.038514	8.679600	13.256700	2.127260	30.433018	1.083120	0.012041	0.116071	0.035992	0.002535	0.001454	0.099581	0.000402	0.009094	0.004819	0.001332	0.013320
4-Aug-2033	13.747295	8.783930	13.447300	2.143360	30.759830	1.102230	0.012232	0.117981	0.036133	0.002566	0.001456	0.099452	0.000408	0.009171	0.004882	0.001348	0.013478
5-Aug-2033	14.122979	8.821230	13.516500	2.150180	30.881053	1.109080	0.012300	0.118658	0.036122	0.002577	0.001457	0.099510	0.000411	0.009192	0.004903	0.001353	0.013533
6-Aug-2033	14.801797	8.889700	13.644200	2.162040	31.100862	1.121770	0.012425	0.119907	0.036118	0.002596	0.001458	0.099589	0.000415	0.009231	0.004943	0.001364	0.013635
7-Aug-2033	15.032487	8.812280	13.503000	2.150740	30.861010	1.107550	0.012283	0.118483	0.035981	0.002573	0.001457	0.099376	0.000410	0.009170	0.004895	0.001352	0.013517

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
8-Aug-2033	15.243892	8.956820	13.766500	2.173620	31.316147	1.133940	0.012546	0.121117	0.036154	0.002617	0.001460	0.099834	0.000419	0.009275	0.004982	0.001373	0.013733
9-Aug-2033	16.320438	9.043540	13.927000	2.188060	31.592150	1.149920	0.012705	0.122702	0.036205	0.002642	0.001462	0.099981	0.000424	0.009331	0.005033	0.001386	0.013863
10-Aug-2033	15.993603	9.126210	14.079300	2.201380	31.853429	1.165140	0.012856	0.124213	0.036275	0.002666	0.001464	0.100150	0.000429	0.009387	0.005082	0.001399	0.013988
11-Aug-2033	16.384725	8.936560	13.735100	2.173430	31.264775	1.130500	0.012509	0.120739	0.035924	0.002607	0.001460	0.099538	0.000418	0.009236	0.004965	0.001370	0.013700
12-Aug-2033	15.242286	8.864520	13.603100	2.164750	31.049147	1.117090	0.012375	0.119388	0.035702	0.002588	0.001459	0.100053	0.000414	0.009171	0.004919	0.001358	0.013585
13-Aug-2033	15.505359	8.940430	13.742100	2.176740	31.288069	1.131010	0.012513	0.120774	0.035783	0.002611	0.001460	0.101080	0.000418	0.009225	0.004965	0.001370	0.013699
14-Aug-2033	15.701154	8.862640	13.602500	2.165660	31.048200	1.116940	0.012371	0.119356	0.035611	0.002585	0.001458	0.101418	0.000414	0.009160	0.004916	0.001358	0.013582
15-Aug-2033	15.907566	8.943980	13.746200	2.180650	31.313035	1.131240	0.012514	0.120777	0.035623	0.002625	0.001461	0.101828	0.000418	0.009215	0.004964	0.001370	0.013696
16-Aug-2033	15.824778	9.020620	13.886300	2.193540	31.557486	1.145210	0.012653	0.122162	0.035642	0.002657	0.001463	0.101977	0.000423	0.009266	0.005009	0.001381	0.013809
17-Aug-2033	15.540688	8.955020	13.770400	2.183250	31.351308	1.133550	0.012535	0.120989	0.035535	0.002618	0.001461	0.101694	0.000419	0.009212	0.004969	0.001371	0.013713
18-Aug-2033	15.515891	9.140090	14.109800	2.211980	31.931738	1.167550	0.012874	0.124379	0.035763	0.002673	0.001465	0.100957	0.000430	0.009346	0.005080	0.001399	0.013992
19-Aug-2033	15.363224	9.140180	14.107900	2.213700	31.939046	1.167300	0.012871	0.124342	0.035683	0.002678	0.001465	0.101212	0.000430	0.009340	0.005079	0.001399	0.013988
20-Aug-2033	14.495142	9.221570	14.258000	2.226290	32.194123	1.182300	0.013020	0.125836	0.035784	0.002700	0.001467	0.100901	0.000435	0.009398	0.005128	0.001411	0.014112
21-Aug-2033	13.955128	9.321500	14.439700	2.242020	32.508424	1.200520	0.013202	0.127654	0.035905	0.002732	0.001469	0.100950	0.000442	0.009471	0.005188	0.001426	0.014262
22-Aug-2033	13.935620	9.350930	14.493300	2.246650	32.600977	1.205860	0.013255	0.128187	0.035947	0.002741	0.001470	0.101040	0.000443	0.009493	0.005206	0.001431	0.014307
23-Aug-2033	13.978403	9.492850	14.754200	2.269080	33.047718	1.231960	0.013515	0.130787	0.036101	0.002782	0.001473	0.101332	0.000452	0.009593	0.005291	0.001452	0.014522
24-Aug-2033	13.617875	9.420400	14.625900	2.259780	32.828513	1.218920	0.013383	0.129459	0.035862	0.002757	0.001471	0.101834	0.000448	0.009523	0.005244	0.001441	0.014411
25-Aug-2033	13.595100	9.341230	14.482300	2.248890	32.585980	1.204420	0.013236	0.127993	0.035668	0.002733	0.001469	0.101312	0.000443	0.009456	0.005195	0.001429	0.014288
26-Aug-2033	13.289301	9.418500	14.624000	2.261140	32.829369	1.218610	0.013377	0.129404	0.035749	0.002756	0.001471	0.101198	0.000448	0.009511	0.005241	0.001440	0.014404
27-Aug-2033	12.486020	9.370620	14.537500	2.255110	32.684981	1.209800	0.013289	0.128511	0.035608	0.002742	0.001470	0.101325	0.000445	0.009467	0.005210	0.001433	0.014329
28-Aug-2033	11.472633	9.403350	14.597600	2.260970	32.790839	1.215760	0.013347	0.129098	0.035605	0.002752	0.001471	0.101691	0.000447	0.009486	0.005229	0.001438	0.014377
29-Aug-2033	11.254963	9.485290	14.747500	2.273780	33.048195	1.230780	0.013497	0.130594	0.035703	0.002777	0.001473	0.102754	0.000452	0.009546	0.005279	0.001450	0.014501
30-Aug-2033	10.553737	9.436900	14.655700	2.269480	32.909658	1.221400	0.013401	0.129631	0.035486	0.002771	0.001472	0.103014	0.000449	0.009499	0.005247	0.001442	0.014419
31-Aug-2033	9.663855	9.366830	14.527000	2.260010	32.695696	1.208420	0.013271	0.128323	0.035304	0.002758	0.001471	0.102590	0.000445	0.009442	0.005203	0.001431	0.014309
1-Sep-2033	8.867265	9.610540	14.974100	2.296510	33.454547	1.253340	0.013719	0.132813	0.035676	0.002823	0.001476	0.101786	0.000459	0.009624	0.005351	0.001468	0.014681
2-Sep-2033	7.974545	9.590820	14.938500	2.294070	33.395258	1.249740	0.013683	0.132446	0.035609	0.002817	0.001475	0.101755	0.000458	0.009606	0.005339	0.001465	0.014650
3-Sep-2033	8.016756	9.635560	15.020900	2.301060	33.535758	1.258020	0.013765	0.133268	0.035658	0.002831	0.001476	0.102078	0.000461	0.009637	0.005366	0.001472	0.014717
4-Sep-2033	7.746789	9.683730	15.109300	2.308470	33.686553	1.266900	0.013853	0.134153	0.035712	0.002845	0.001477	0.102067	0.000464	0.009672	0.005395	0.001479	0.014790
5-Sep-2033	7.684478	9.842450	15.400000	2.332980	34.183809	1.296110	0.014144	0.137064	0.035905	0.002894	0.001480	0.102419	0.000474	0.009787	0.005491	0.001503	0.015029
6-Sep-2033	7.843407	9.787660	15.302600	2.324970	34.014013	1.286400	0.014046	0.136081	0.035761	0.002877	0.001478	0.102623	0.000471	0.009740	0.005457	0.001494	0.014944
7-Sep-2033	7.583050	9.748570	15.232000	2.319180	33.892563	1.279390	0.013975	0.135374	0.035668	0.002866	0.001477	0.103011	0.000468	0.009707	0.005433	0.001488	0.014884
8-Sep-2033	7.919742	9.921890	15.548000	2.345900	34.435376	1.311110	0.014292	0.138540	0.035909	0.002920	0.001480	0.102767	0.000479	0.009837	0.005538	0.001515	0.015146
9-Sep-2033	8.005537	9.861140	15.437300	2.336610	34.245427	1.299990	0.014181	0.137429	0.035816	0.002901	0.001479	0.102641	0.000475	0.009791	0.005501	0.001505	0.015054
10-Sep-2033	8.655701	10.379200	16.382800	2.415890	35.865497	1.394900	0.015128	0.146909	0.036556	0.003059	0.001490	0.103957	0.000507	0.010179	0.005815	0.001584	0.015838
11-Sep-2033	9.217813	10.217700	16.089500	2.391250	35.360764	1.365510	0.014834	0.143968	0.036295	0.003010	0.001486	0.103440	0.000497	0.010054	0.005717	0.001559	0.015593
12-Sep-2033	9.609652	10.631100	16.845300	2.454400	36.653076	1.441470	0.015591	0.151546	0.036853	0.003136	0.001494	0.104619	0.000522	0.010361	0.005968	0.001622	0.016218
13-Sep-2033	9.340063	10.080000	15.842000	2.370870	34.933003	1.340790	0.014585	0.141477	0.035999	0.002968	0.001482	0.102956	0.000489	0.009940	0.005632	0.001538	0.015382
14-Sep-2033	7.971886	10.134400	15.942000	2.379310	35.103595	1.350860	0.014685	0.142479	0.036052	0.002985	0.001483	0.103105	0.000492	0.009979	0.005665	0.001546	0.015463
15-Sep-2033	6.788790	10.204300	16.070600	2.390110	35.322610	1.363800	0.014814	0.143767	0.036128	0.003005	0.001484	0.103269	0.000496	0.010029	0.005707	0.001557	0.015569
16-Sep-2033	6.687079	10.256500	16.167100	2.398200	35.486268	1.373510	0.014910	0.144732	0.036179	0.003021	0.001485	0.103375	0.000500	0.010065	0.005739	0.001565	0.015647
17-Sep-2033	6.320949	10.326600	16.295800	2.409240	35.706771	1.386540	0.015039	0.146023	0.036225	0.003044	0.001486	0.103626	0.000504	0.010114	0.005781	0.001575	0.015751
18-Sep-2033	6.135040	10.425700	16.476300	2.424640	36.017640	1.404710	0.015220	0.147834	0.036342	0.003077	0.001487	0.103987	0.000510	0.010187	0.005841	0.001590	0.015899
19-Sep-2033	5.826288	10.461300	16.542200	2.430160	36.129265	1.411350	0.015286	0.148494	0.036374	0.003087	0.001488	0.104064	0.000512	0.010212	0.005862	0.001595	0.015952
20-Sep-2033	5.712896	10.526600	16.662700	2.440150	36.333458	1.423500	0.015407	0.149702	0.036442	0.003107	0.001489	0.104201	0.000516	0.010258	0.005902	0.001605	0.016051
21-Sep-2033	5.693651	10.477300	16.573900	2.432550	36.179059	1.414630	0.015318	0.148813	0.036357	0.003091	0.001488	0.104009	0.000513	0.010219	0.005872	0.001598	0.015977
22-Sep-2033	5.339198	10.429900	16.490000	2.425530	36.031793	1.406270	0.015233	0.147966	0.036231	0.003076	0.001486	0.103825	0.000510	0.010177	0.005842	0.001590	0.015904
23-Sep-2033	5.005635	10.606000	16.808900	2.452660	36.583236	1.438160	0.015553	0.151169	0.036536	0.003130	0.001490	0.104375	0.000521	0.010314	0.005949	0.001617	0.016171
24-Sep-2033	4.982381	10.941600	17.420700	2.503800	37.631824	1.499490	0.016166	0.157296	0.037044	0.003231	0.001498	0.105330	0.000541	0.010568	0.006153	0.001668	0.016680
25-Sep-2033	5.061080	10.715300	17.009300	2.469510	36.925546	1.458260	0.015753	0.153168	0.036671	0.003162	0.001493	0.104636	0.000528	0.010393	0.006015	0.001634	0.016336
26-Sep-2033	4.851511	10.803400	17.172400	2.482910	37.200713	1.474770	0.015917	0.154808	0.036751	0.003189	0.001494	0.104835	0.000533	0.010455	0.006069	0.001647	0.016469
27-Sep-2033	4.223849	10.820300	17.204900	2.485680	37.254319	1.478140	0.015950	0.155135	0.036725	0.003195	0.001493	0.104873	0.000534	0.010463	0.006079	0.001649	0.016493
28-Sep-2033	3.641773	10.811200	17.189100	2.484420	37.226408	1.476590	0.015934	0.154976	0.036687	0.003192	0.001493	0.104827	0.000534	0.010453	0.006073	0.001648	0.016478
29-Sep-2033	3.003143	10.735400	17.052100	2.472710	36.988914	1.462910	0.015796	0.153605	0.036558	0.003169	0.001491	0.104563	0.000529	0.010394	0.006027	0.001636	0.016363

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
30-Sep-2033	2.774377	10.754000	17.089900	2.475810	37.048124	1.466800	0.015834	0.153977	0.036506	0.003173	0.001490	0.104479	0.000531	0.010399	0.006037	0.001639	0.016390
1-Oct-2033	2.619552	10.957400	17.458000	2.507030	37.684577	1.503550	0.016203	0.157670	0.036874	0.003235	0.001496	0.105134	0.000543	0.010559	0.006161	0.001670	0.016700
2-Oct-2033	2.588479	10.955400	17.454400	2.506590	37.677771	1.503200	0.016199	0.157631	0.036875	0.003234	0.001496	0.105115	0.000543	0.010558	0.006160	0.001670	0.016697
3-Oct-2033	2.446308	10.889700	17.336500	2.496260	37.471180	1.491540	0.016081	0.156457	0.036744	0.003214	0.001493	0.104878	0.000539	0.010505	0.006120	0.001660	0.016597
4-Oct-2033	2.470415	10.793800	17.162300	2.481260	37.169947	1.474140	0.015907	0.154718	0.036608	0.003185	0.001491	0.104594	0.000533	0.010433	0.006062	0.001645	0.016452
5-Oct-2033	2.711229	10.757700	17.096500	2.475950	37.057939	1.467640	0.015842	0.154062	0.036540	0.003176	0.001490	0.104552	0.000531	0.010404	0.006040	0.001640	0.016395
6-Oct-2033	2.259096	10.700700	16.992700	2.467240	36.879742	1.457360	0.015739	0.153030	0.036412	0.003161	0.001488	0.104473	0.000527	0.010360	0.006006	0.001631	0.016307
7-Oct-2033	1.748774	10.684800	16.964400	2.464530	36.828880	1.454640	0.015711	0.152754	0.036366	0.003157	0.001487	0.104440	0.000526	0.010347	0.005996	0.001628	0.016282
8-Oct-2033	1.190227	10.675000	16.946400	2.462980	36.798027	1.452850	0.015693	0.152576	0.036355	0.003154	0.001487	0.104445	0.000526	0.010340	0.005990	0.001627	0.016267
9-Oct-2033	1.041052	10.658900	16.917800	2.460230	36.746500	1.450100	0.015665	0.152298	0.036324	0.003150	0.001486	0.104361	0.000525	0.010327	0.005981	0.001624	0.016243
10-Oct-2033	0.301092	10.623400	16.852600	2.454630	36.634796	1.443570	0.015600	0.151650	0.036283	0.003140	0.001485	0.104322	0.000523	0.010302	0.005959	0.001619	0.016189
11-Oct-2033	0.032136	10.600800	16.811100	2.451010	36.563457	1.439450	0.015559	0.151240	0.036256	0.003133	0.001484	0.104264	0.000521	0.010286	0.005946	0.001615	0.016155
12-Oct-2033	0.102637	10.591100	16.793300	2.449450	36.532812	1.437680	0.015541	0.151063	0.036244	0.003131	0.001484	0.104218	0.000521	0.010279	0.005940	0.001614	0.016140
13-Oct-2033	0.055455	10.551400	16.722000	2.442850	36.406502	1.430730	0.015471	0.150366	0.036189	0.003121	0.001483	0.104168	0.000518	0.010249	0.005917	0.001608	0.016079
14-Oct-2033	0.063103	10.554900	16.728700	2.443210	36.416724	1.431370	0.015478	0.150431	0.036196	0.003120	0.001483	0.104148	0.000519	0.010252	0.005919	0.001609	0.016085
15-Oct-2033	0.063783	10.559500	16.736900	2.444030	36.431587	1.432180	0.015486	0.150512	0.036197	0.003121	0.001483	0.104130	0.000519	0.010256	0.005922	0.001609	0.016092
16-Oct-2033	0.064418	10.557500	16.733200	2.443770	36.425522	1.431810	0.015482	0.150475	0.036194	0.003121	0.001483	0.104306	0.000519	0.010254	0.005920	0.001609	0.016089
17-Oct-2033	0.065060	10.633300	16.851000	2.462410	36.691554	1.441660	0.015590	0.151519	0.036504	0.003144	0.001496	0.105453	0.000522	0.010332	0.005962	0.001620	0.016204
18-Oct-2033	0.065586	10.730400	17.005000	2.484370	37.024444	1.454860	0.015733	0.152906	0.036801	0.003172	0.001508	0.106761	0.000527	0.010424	0.006017	0.001635	0.016352
19-Oct-2033	0.065345	10.814800	17.138200	2.504120	37.316522	1.466190	0.015856	0.154099	0.037094	0.003197	0.001520	0.108071	0.000531	0.010507	0.006064	0.001648	0.016481
20-Oct-2033	0.064991	10.888300	17.255300	2.520920	37.569234	1.476280	0.015964	0.155156	0.037341	0.003219	0.001530	0.109176	0.000535	0.010577	0.006105	0.001659	0.016593
21-Oct-2033	0.064829	10.898000	17.265400	2.524960	37.610091	1.476670	0.015971	0.155214	0.037386	0.003224	0.001534	0.109961	0.000535	0.010591	0.006110	0.001661	0.016606
22-Oct-2033	0.065838	10.953600	17.352800	2.538240	37.803612	1.484090	0.016052	0.155996	0.037583	0.003241	0.001542	0.110361	0.000538	0.010645	0.006141	0.001669	0.016691
23-Oct-2033	0.066328	10.998400	17.418400	2.550140	37.964481	1.489380	0.016110	0.156559	0.037755	0.003256	0.001550	0.111127	0.000540	0.010693	0.006165	0.001676	0.016758
24-Oct-2033	0.068288	10.917200	17.299400	2.528200	37.671376	1.479890	0.016004	0.155541	0.037448	0.003228	0.001547	0.111849	0.000536	0.010607	0.006121	0.001664	0.016637
25-Oct-2033	0.071337	10.914400	17.293400	2.528020	37.663643	1.479210	0.015998	0.155477	0.037451	0.003227	0.001559	0.112733	0.000536	0.010606	0.006120	0.001663	0.016632
26-Oct-2033	0.072802	10.951300	17.351600	2.536660	37.791362	1.484150	0.016052	0.155999	0.037596	0.003238	0.001572	0.113647	0.000538	0.010643	0.006140	0.001669	0.016690
27-Oct-2033	0.072548	10.996100	17.421300	2.547380	37.947373	1.490040	0.016116	0.156619	0.037734	0.003252	0.001584	0.114467	0.000540	0.010686	0.006165	0.001676	0.016756
28-Oct-2033	0.071631	11.021700	17.461200	2.553590	38.036869	1.493390	0.016152	0.156973	0.037820	0.003260	0.001596	0.115262	0.000541	0.010711	0.006179	0.001680	0.016795
29-Oct-2033	0.071256	11.041600	17.491000	2.558750	38.107808	1.495780	0.016179	0.157230	0.037904	0.003267	0.001608	0.116136	0.000542	0.010732	0.006190	0.001682	0.016825
30-Oct-2033	0.071239	11.101800	17.586900	2.572410	38.314379	1.503980	0.016268	0.158093	0.038120	0.003283	0.001620	0.116946	0.000545	0.010791	0.006224	0.001692	0.016918
31-Oct-2033	0.071807	11.167800	17.691400	2.588510	38.545481	1.512930	0.016365	0.159033	0.038345	0.003303	0.001631	0.117698	0.000548	0.010855	0.006261	0.001702	0.017018
1-Nov-2033	0.072764	11.239300	17.803700	2.608300	38.805512	1.522440	0.016468	0.160037	0.038597	0.003324	0.001642	0.118380	0.000552	0.010926	0.006301	0.001713	0.017127
2-Nov-2033	0.072993	11.281700	17.870000	2.614650	38.937534	1.528020	0.016529	0.160627	0.038749	0.003337	0.001635	0.117418	0.000554	0.010968	0.006325	0.001719	0.017192
3-Nov-2033	0.073110	11.325000	17.937700	2.625920	39.092064	1.533720	0.016591	0.161230	0.038906	0.003350	0.001638	0.117377	0.000556	0.011011	0.006349	0.001726	0.017258
4-Nov-2033	0.073413	11.372100	18.012100	2.644120	39.284620	1.540060	0.016660	0.161897	0.039070	0.003364	0.001647	0.117790	0.000558	0.011057	0.006375	0.001733	0.017330
5-Nov-2033	0.073752	11.407700	18.068000	2.662040	39.447308	1.544800	0.016711	0.162397	0.039237	0.003385	0.001654	0.118175	0.000560	0.011091	0.006395	0.001738	0.017384
6-Nov-2033	0.074456	11.451700	18.136500	2.681220	39.636159	1.550550	0.016774	0.163004	0.039534	0.003411	0.001663	0.118655	0.000562	0.011154	0.006419	0.001745	0.017450
7-Nov-2033	0.075158	11.503600	18.217800	2.697960	39.834688	1.557410	0.016849	0.163729	0.039796	0.003433	0.001671	0.119032	0.000565	0.011231	0.006448	0.001753	0.017529
8-Nov-2033	0.074738	11.558800	18.304800	2.715230	40.043641	1.564810	0.016929	0.164509	0.040061	0.003456	0.001679	0.119547	0.000567	0.011308	0.006479	0.001761	0.017613
9-Nov-2033	0.074370	11.613700	18.386600	2.734910	40.261768	1.571800	0.017005	0.165243	0.040355	0.003481	0.001691	0.120324	0.000570	0.011392	0.006508	0.001769	0.017692
10-Nov-2033	0.075082	11.686700	18.494100	2.750710	40.509114	1.580990	0.017104	0.166209	0.040593	0.003502	0.001700	0.120907	0.000573	0.011461	0.006546	0.001780	0.017795
11-Nov-2033	0.076524	11.769100	18.596500	2.771550	40.800686	1.589690	0.017199	0.167126	0.040896	0.003528	0.001714	0.121940	0.000576	0.011545	0.006583	0.001790	0.017899
12-Nov-2033	0.077244	11.861500	18.700100	2.795840	41.131435	1.598450	0.017294	0.168050	0.041245	0.003558	0.001730	0.123214	0.000579	0.011642	0.006625	0.001804	0.018037
13-Nov-2033	0.077583	11.940100	18.778400	2.818070	41.419242	1.605020	0.017366	0.168745	0.041562	0.003586	0.001746	0.124495	0.000582	0.011728	0.006667	0.001815	0.018154
14-Nov-2033	0.077741	12.002200	18.843500	2.835900	41.647730	1.608840	0.017408	0.169153	0.041816	0.003608	0.001760	0.125539	0.000583	0.011797	0.006700	0.001825	0.018246
15-Nov-2033	0.077237	12.078800	18.957500	2.855950	41.921566	1.611530	0.017457	0.169444	0.042106	0.003633	0.001773	0.126586	0.000585	0.011877	0.006741	0.001836	0.018361
16-Nov-2033	0.076410	12.162400	19.084500	2.877090	42.217369	1.615580	0.017572	0.170418	0.042414	0.003659	0.001787	0.127635	0.000589	0.011962	0.006787	0.001849	0.018487
17-Nov-2033	0.075931	12.238800	19.200900	2.896210	42.486876	1.625130	0.017678	0.171437	0.042694	0.003683	0.001800	0.128569	0.000593	0.012040	0.006829	0.001860	0.018602
18-Nov-2033	0.075858	12.216200	19.160500	2.892500	42.415166	1.621240	0.017639	0.171043	0.042636	0.003678	0.001799	0.128536	0.000591	0.012022	0.006816	0.001857	0.018567
19-Nov-2033	0.076524	12.282900	19.265500	2.908140	42.646122	1.630170	0.017736	0.171984	0.042868	0.003698	0.001808	0.129218	0.000595	0.012087	0.006853	0.001867	0.018668
20-Nov-2033	0.077013	12.360100	19.388000	2.925980	42.912355	1.640660	0.017849	0.173086	0.043133	0.003721	0.001819	0.129975	0.000598	0.012162	0.006896	0.001879	0.018786
21-Nov-2033	0.077119	12.446000	19.524300	2.945820	43.208549	1.652330	0.017975	0.174312	0.043427	0.003746	0.001831	0.130816	0.000603	0.012245	0.006945	0.001892	0.018917

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
22-Nov-2033	0.076792	12.536200	19.667800	2.966520	43.519021	1.664670	0.018108	0.175607	0.043734	0.003773	0.001844	0.131682	0.000607	0.012333	0.006995	0.001905	0.019054
23-Nov-2033	0.076165	12.627400	19.813700	2.987160	43.831743	1.677270	0.018244	0.176927	0.044041	0.003799	0.001856	0.132523	0.000612	0.012420	0.007047	0.001919	0.019194
24-Nov-2033	0.075551	12.656200	19.862000	2.993000	43.927705	1.681640	0.018290	0.177377	0.044130	0.003807	0.001859	0.132703	0.000613	0.012446	0.007063	0.001924	0.019238
25-Nov-2033	0.075677	12.739200	19.997700	3.010870	44.208545	1.693630	0.018417	0.178624	0.044399	0.003830	0.001869	0.133353	0.000617	0.012523	0.007110	0.001937	0.019366
26-Nov-2033	0.075875	12.822000	20.132500	3.028860	44.489379	1.705490	0.018543	0.179859	0.044669	0.003853	0.001879	0.134022	0.000622	0.012601	0.007157	0.001949	0.019493
27-Nov-2033	0.075855	12.908600	20.272600	3.048010	44.784479	1.717730	0.018674	0.181136	0.044956	0.003878	0.001890	0.134762	0.000626	0.012683	0.007207	0.001963	0.019626
28-Nov-2033	0.075535	12.996300	20.414100	3.067490	45.083685	1.730070	0.018806	0.182424	0.045247	0.003903	0.001901	0.135525	0.000631	0.012766	0.007256	0.001976	0.019760
29-Nov-2033	0.075155	12.711500	19.974800	2.997710	44.085185	1.693560	0.018405	0.178549	0.044228	0.003815	0.001856	0.132232	0.000617	0.012480	0.007099	0.001933	0.019329
30-Nov-2033	0.074862	12.781400	20.087600	3.013200	44.323513	1.703410	0.018510	0.179576	0.044460	0.003834	0.001865	0.132836	0.000621	0.012546	0.007138	0.001944	0.019436
1-Dec-2033	0.074931	12.850800	20.199300	3.028690	44.560593	1.713130	0.018615	0.180592	0.044691	0.003854	0.001874	0.133449	0.000624	0.012613	0.007177	0.001954	0.019542
2-Dec-2033	0.075085	12.919500	20.309900	3.044120	44.795678	1.722720	0.018717	0.181596	0.044922	0.003874	0.001883	0.134086	0.000628	0.012678	0.007216	0.001965	0.019647
3-Dec-2033	0.075287	12.996400	20.432100	3.062070	45.061615	1.733220	0.018831	0.182698	0.045184	0.003897	0.001895	0.134914	0.000631	0.012752	0.007259	0.001976	0.019765
4-Dec-2033	0.075424	12.734900	20.029300	2.998160	44.145468	1.707570	0.018481	0.179559	0.044253	0.003816	0.001853	0.131840	0.000619	0.012491	0.007115	0.001937	0.019369
5-Dec-2033	0.075264	12.817600	20.158600	3.017170	44.430253	1.713310	0.018584	0.180320	0.044535	0.003841	0.001865	0.132640	0.000623	0.012571	0.007161	0.001949	0.019495
6-Dec-2033	0.075227	12.896900	20.285600	3.035120	44.702183	1.721690	0.018700	0.181449	0.044802	0.003864	0.001875	0.133371	0.000627	0.012647	0.007205	0.001962	0.019616
7-Dec-2033	0.075257	12.980800	20.419700	3.054200	44.990253	1.733260	0.018825	0.182662	0.045086	0.003888	0.001887	0.134155	0.000631	0.012728	0.007253	0.001974	0.019744
8-Dec-2033	0.075094	13.066400	20.556400	3.073660	45.284133	1.745060	0.018952	0.183899	0.045376	0.003913	0.001898	0.134954	0.000635	0.012810	0.007301	0.001987	0.019875
9-Dec-2033	0.074926	13.140800	20.676500	3.090170	45.537898	1.755540	0.019064	0.184992	0.045622	0.003934	0.001908	0.135598	0.000639	0.012881	0.007343	0.001999	0.019989
10-Dec-2033	0.075135	13.212000	20.791300	3.106020	45.780954	1.765540	0.019171	0.186037	0.045859	0.003955	0.001917	0.136221	0.000643	0.012948	0.007383	0.002010	0.020098
11-Dec-2033	0.075233	13.279600	20.900000	3.121230	46.012386	1.774960	0.019272	0.187023	0.046086	0.003974	0.001926	0.136832	0.000646	0.013013	0.007421	0.002020	0.020201
12-Dec-2033	0.074906	13.339800	20.997900	3.134320	46.216610	1.783570	0.019364	0.187919	0.046283	0.003991	0.001933	0.137321	0.000649	0.013069	0.007456	0.002029	0.020293
13-Dec-2033	0.074719	13.391900	21.085300	3.144800	46.389861	1.791500	0.019447	0.188736	0.046443	0.004005	0.001939	0.137635	0.000652	0.013116	0.007486	0.002037	0.020374
14-Dec-2033	0.075018	13.449300	21.181800	3.156330	46.580669	1.800240	0.019539	0.189638	0.046620	0.004020	0.001944	0.137982	0.000655	0.013168	0.007519	0.002046	0.020463
15-Dec-2033	0.074979	13.504700	21.274800	3.167500	46.765001	1.808680	0.019627	0.190507	0.046791	0.004035	0.001950	0.138319	0.000658	0.013218	0.007551	0.002055	0.020549
16-Dec-2033	0.074676	13.548600	21.349300	3.176100	46.910034	1.815490	0.019698	0.191207	0.046923	0.004046	0.001954	0.138556	0.000660	0.013256	0.007576	0.002062	0.020617
17-Dec-2033	0.074937	13.591200	21.420600	3.184720	47.051903	1.821930	0.019766	0.191872	0.047055	0.004057	0.001959	0.138821	0.000663	0.013295	0.007601	0.002068	0.020683
18-Dec-2033	0.074983	13.647600	21.514300	3.196380	47.240750	1.830340	0.019854	0.192741	0.047232	0.004072	0.001965	0.139202	0.000665	0.013346	0.007633	0.002077	0.020770
19-Dec-2033	0.074652	13.693900	21.597200	3.204010	47.387781	1.838300	0.019935	0.193547	0.047355	0.004083	0.001967	0.139272	0.000668	0.013384	0.007661	0.002084	0.020843
20-Dec-2033	0.074674	13.749000	21.695200	3.213350	47.563828	1.847650	0.020031	0.194494	0.047505	0.004096	0.001971	0.139387	0.000671	0.013429	0.007693	0.002093	0.020929
21-Dec-2033	0.074641	13.806600	21.793500	3.224450	47.753365	1.856690	0.020125	0.195421	0.047677	0.004110	0.001976	0.139675	0.000674	0.013480	0.007727	0.002102	0.021019
22-Dec-2033	0.074425	13.814100	21.812500	3.223870	47.769704	1.858960	0.020145	0.195637	0.047676	0.004110	0.001974	0.139459	0.000675	0.013481	0.007732	0.002103	0.021032
23-Dec-2033	0.074564	13.840900	21.860500	3.228320	47.854949	1.863570	0.020192	0.196103	0.047748	0.004116	0.001976	0.139503	0.000677	0.013503	0.007748	0.002107	0.021074
24-Dec-2033	0.074540	13.876800	21.922100	3.235120	47.972594	1.869260	0.020251	0.196686	0.047853	0.004125	0.001979	0.139667	0.000679	0.013534	0.007769	0.002113	0.021130
25-Dec-2033	0.074355	13.904300	21.969800	3.240170	48.062057	1.873710	0.020297	0.197140	0.047933	0.004132	0.001981	0.139774	0.000680	0.013558	0.007785	0.002117	0.021173
26-Dec-2033	0.074545	13.938200	22.026000	3.247190	48.175614	1.878750	0.020350	0.197662	0.048039	0.004141	0.001985	0.140005	0.000682	0.013589	0.007805	0.002123	0.021225
27-Dec-2033	0.074517	13.956600	22.058400	3.250410	48.234819	1.881810	0.020382	0.197973	0.048090	0.004146	0.001986	0.140057	0.000683	0.013604	0.007816	0.002125	0.021254
28-Dec-2033	0.074297	13.991600	22.115700	3.257950	48.353263	1.886880	0.020436	0.198500	0.048204	0.004155	0.001990	0.140330	0.000685	0.013637	0.007836	0.002131	0.021308
29-Dec-2033	0.074407	14.050800	22.234100	3.268430	48.544242	1.899220	0.020556	0.199717	0.048361	0.004169	0.001996	0.140736	0.000689	0.013682	0.007873	0.002140	0.021405
30-Dec-2033	0.074499	14.149000	22.389400	3.286560	48.864107	1.912480	0.020699	0.201111	0.048657	0.004194	0.002003	0.141205	0.000694	0.013771	0.007928	0.002155	0.021554
31-Dec-2033	0.074360	14.135200	22.345500	3.290450	48.845668	1.906740	0.020649	0.200580	0.048688	0.004197	0.002009	0.141654	0.000692	0.013775	0.007917	0.002153	0.021528
1-Jan-2034	0.074438	14.175700	22.410400	3.299650	48.984682	1.912350	0.020709	0.201167	0.048825	0.004209	0.002015	0.142029	0.000694	0.013814	0.007939	0.002159	0.021589

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Sep-2021	12.000000	3.515000	3.600000	1.900000	16.601155	0.005000	0.001000	0.005000	0.014000	0.000240	0.001500	0.032000	0.000015	0.003500	0.001100	0.000250	0.002500
16-Sep-2021	10.907300	3.516310	3.601350	1.900710	16.607350	0.005002	0.001000	0.005002	0.014005	0.000240	0.001501	0.032012	0.000015	0.003501	0.001100	0.000250	0.002501
17-Sep-2021	10.268733	3.517630	3.602690	1.901420	16.613570	0.005004	0.001001	0.005004	0.014011	0.000240	0.001501	0.032024	0.000015	0.003503	0.001101	0.000250	0.002502
18-Sep-2021	9.531250	3.518880	3.603970	1.902100	16.619491	0.005006	0.001001	0.005006	0.014015	0.000240	0.001502	0.032035	0.000015	0.003504	0.001101	0.000250	0.002503
19-Sep-2021	9.139033	3.520060	3.605180	1.902740	16.625073	0.005007	0.001001	0.005007	0.014020	0.000240	0.001502	0.032046	0.000015	0.003505	0.001102	0.000250	0.002504
20-Sep-2021	8.849427	3.521230	3.606380	1.903370	16.630589	0.005009	0.001002	0.005009	0.014025	0.000240	0.001503	0.032057	0.000015	0.003506	0.001102	0.000250	0.002504
21-Sep-2021	7.912603	3.522450	3.607630	1.904030	16.636353	0.005011	0.001002	0.005011	0.014030	0.000241	0.001503	0.032068	0.000015	0.003507	0.001102	0.000251	0.002505
22-Sep-2021	7.361840	3.523900	3.609120	1.904810	16.643186	0.005013	0.001003	0.005013	0.014036	0.000241	0.001504	0.032081	0.000015	0.003509	0.001103	0.000251	0.002506
23-Sep-2021	7.010397	3.525180	3.610430	1.905500	16.649223	0.005014	0.001003	0.005014	0.014041	0.000241	0.001504	0.032093	0.000015	0.003510	0.001103	0.000251	0.002507
24-Sep-2021	7.026553	3.526540	3.611820	1.906240	16.655667	0.005016	0.001003	0.005016	0.014046	0.000241	0.001505	0.032105	0.000015	0.003511	0.001104	0.000251	0.002508
25-Sep-2021	6.417070	3.527700	3.613010	1.906860	16.661116	0.005018	0.001004	0.005018	0.014051	0.000241	0.001505	0.032116	0.000015	0.003513	0.001104	0.000251	0.002509
26-Sep-2021	5.115543	3.528960	3.614300	1.907550	16.667104	0.005020	0.001004	0.005020	0.014056	0.000241	0.001506	0.032127	0.000015	0.003514	0.001104	0.000251	0.002510
27-Sep-2021	4.087777	3.530560	3.615930	1.908410	16.674641	0.005022	0.001004	0.005022	0.014062	0.000241	0.001507	0.032142	0.000015	0.003515	0.001105	0.000251	0.002511
28-Sep-2021	3.051233	3.531650	3.617050	1.909000	16.679792	0.005024	0.001005	0.005024	0.014066	0.000241	0.001507	0.032152	0.000015	0.003517	0.001105	0.000251	0.002512
29-Sep-2021	2.704853	3.533840	3.619290	1.910180	16.690120	0.005027	0.001005	0.005027	0.014075	0.000241	0.001508	0.032172	0.000015	0.003519	0.001106	0.000251	0.002513
30-Sep-2021	2.424587	3.534500	3.619970	1.910540	16.693250	0.005028	0.001006	0.005028	0.014078	0.000241	0.001508	0.032178	0.000015	0.003519	0.001106	0.000251	0.002514
1-Oct-2021	2.290263	3.535310	3.620800	1.910980	16.697085	0.005029	0.001006	0.005029	0.014081	0.000241	0.001509	0.032185	0.000015	0.003520	0.001106	0.000251	0.002514
2-Oct-2021	2.119340	3.535020	3.620500	1.910820	16.695702	0.005028	0.001006	0.005028	0.014080	0.000241	0.001509	0.032182	0.000015	0.003520	0.001106	0.000251	0.002514
3-Oct-2021	2.164587	3.533600	3.619050	1.910050	16.688985	0.005026	0.001005	0.005026	0.014074	0.000241	0.001508	0.032169	0.000015	0.003519	0.001106	0.000251	0.002513
4-Oct-2021	2.471117	3.532700	3.618120	1.909570	16.684761	0.005025	0.001005	0.005025	0.014071	0.000241	0.001508	0.032161	0.000015	0.003518	0.001106	0.000251	0.002513
5-Oct-2021	1.937307	3.531260	3.616660	1.908790	16.677953	0.005023	0.001005	0.005023	0.014065	0.000241	0.001507	0.032148	0.000015	0.003516	0.001105	0.000251	0.002512
6-Oct-2021	1.106744	3.530170	3.615540	1.908200	16.672802	0.005022	0.001004	0.005022	0.014060	0.000241	0.001506	0.032138	0.000015	0.003515	0.001105	0.000251	0.002511
7-Oct-2021	0.592347	3.529470	3.614820	1.907820	16.669489	0.005021	0.001004	0.005021	0.014058	0.000241	0.001506	0.032132	0.000015	0.003514	0.001105	0.000251	0.002510
8-Oct-2021	0.172648	3.528310	3.613630	1.907190	16.663998	0.005019	0.001004	0.005019	0.014053	0.000241	0.001506	0.032121	0.000015	0.003513	0.001104	0.000251	0.002509
9-Oct-2021	0.002622	3.527130	3.612420	1.906560	16.658458	0.005017	0.001003	0.005017	0.014048	0.000241	0.001505	0.032110	0.000015	0.003512	0.001104	0.000251	0.002509
10-Oct-2021	0.011057	3.526250	3.611530	1.906080	16.654284	0.005016	0.001003	0.005016	0.014045	0.000241	0.001505	0.032103	0.000015	0.003511	0.001104	0.000251	0.002508
11-Oct-2021	0.120634	3.525620	3.610880	1.905740	16.651310	0.005015	0.001003	0.005015	0.014042	0.000241	0.001505	0.032097	0.000015	0.003511	0.001103	0.000251	0.002508
12-Oct-2021	0.040059	3.524370	3.609600	1.905070	16.645430	0.005013	0.001003	0.005013	0.014037	0.000241	0.001504	0.032085	0.000015	0.003509	0.001103	0.000251	0.002507
13-Oct-2021	0.204943	3.523410	3.608610	1.904550	16.640892	0.005012	0.001002	0.005012	0.014034	0.000241	0.001504	0.032077	0.000015	0.003508	0.001103	0.000251	0.002506
14-Oct-2021	0.005860	3.522480	3.607660	1.904040	16.636469	0.005011	0.001002	0.005011	0.014030	0.000241	0.001503	0.032068	0.000015	0.003507	0.001102	0.000251	0.002505
15-Oct-2021	0.005276	3.521540	3.606700	1.903540	16.632063	0.005009	0.001002	0.005009	0.014026	0.000240	0.001503	0.032060	0.000015	0.003507	0.001102	0.000250	0.002505
16-Oct-2021	0.006831	3.526620	3.611900	1.906280	16.656031	0.005017	0.001003	0.005017	0.014046	0.000241	0.001505	0.032106	0.000015	0.003512	0.001104	0.000251	0.002508
17-Oct-2021	0.007956	3.575860	3.662340	1.932900	16.888605	0.005087	0.001017	0.005087	0.014242	0.000244	0.001526	0.032554	0.000015	0.003561	0.001119	0.000254	0.002543
18-Oct-2021	0.008616	3.635880	3.723810	1.965340	17.172062	0.005172	0.001034	0.005172	0.014482	0.000248	0.001552	0.033101	0.000016	0.003620	0.001138	0.000259	0.002586
19-Oct-2021	0.008875	3.678560	3.767520	1.988410	17.373637	0.005233	0.001047	0.005233	0.014652	0.000251	0.001570	0.033489	0.000016	0.003663	0.001151	0.000262	0.002616
20-Oct-2021	0.009005	3.716010	3.805870	2.008650	17.550498	0.005286	0.001057	0.005286	0.014801	0.000254	0.001586	0.033830	0.000016	0.003700	0.001163	0.000264	0.002643
21-Oct-2021	0.009107	3.759610	3.850520	2.032220	17.756428	0.005348	0.001070	0.005348	0.014974	0.000257	0.001604	0.034227	0.000016	0.003744	0.001177	0.000267	0.002674
22-Oct-2021	0.009230	3.808330	3.900430	2.058560	17.986550	0.005417	0.001083	0.005417	0.015168	0.000260	0.001625	0.034671	0.000016	0.003792	0.001192	0.000271	0.002709
23-Oct-2021	0.009321	3.845760	3.938760	2.078790	18.163320	0.005471	0.001094	0.005471	0.015317	0.000263	0.001641	0.035011	0.000016	0.003829	0.001204	0.000274	0.002735
24-Oct-2021	0.009349	3.877840	3.971620	2.096130	18.314830	0.005516	0.001103	0.005516	0.015445	0.000265	0.001655	0.035303	0.000017	0.003861	0.001214	0.000276	0.002758
25-Oct-2021	0.009441	3.906960	4.001440	2.111870	18.452360	0.005558	0.001112	0.005558	0.015561	0.000267	0.001667	0.035568	0.000017	0.003890	0.001223	0.000278	0.002779
26-Oct-2021	0.009544	3.950430	4.045960	2.135370	18.657677	0.005619	0.001124	0.005619	0.015734	0.000270	0.001686	0.035964	0.000017	0.003934	0.001236	0.000281	0.002810
27-Oct-2021	0.009496	3.998180	4.094860	2.161180	18.883195	0.005687	0.001137	0.005687	0.015925	0.000273	0.001706	0.036399	0.000017	0.003981	0.001251	0.000284	0.002844
28-Oct-2021	0.009522	4.050440	4.148390	2.189430	19.130021	0.005762	0.001152	0.005762	0.016133	0.000277	0.001728	0.036875	0.000017	0.004033	0.001268	0.000288	0.002881
29-Oct-2021	0.009517	4.093290	4.192270	2.212590	19.332391	0.005823	0.001165	0.005823	0.016303	0.000279	0.001747	0.037265	0.000017	0.004076	0.001281	0.000291	0.002911
30-Oct-2021	0.009359	4.154210	4.254660	2.245520	19.620114	0.005909	0.001182	0.005909	0.016546	0.000284	0.001773	0.037819	0.000018	0.004136	0.001300	0.000295	0.002955
31-Oct-2021	0.009323	4.217090	4.319070	2.279510	19.917096	0.005999	0.001200	0.005999	0.016796	0.000288	0.001800	0.038392	0.000018	0.004199	0.001320	0.000300	0.002999
1-Nov-2021	0.009339	4.268700	4.371930	2.307410	20.160858	0.006072	0.001214	0.006072	0.017002	0.000291	0.001822	0.038862	0.000018	0.004250	0.001336	0.000304	0.003036
2-Nov-2021	0.009384	4.310040	4.414260	2.329750	20.356080	0.006131	0.001226	0.006131	0.017167	0.000294	0.001839	0.039238	0.000018	0.004292	0.001349	0.000307	0.003065
3-Nov-2021	0.009464	4.340900	4.445870	2.346430	20.501826	0.006175	0.001235	0.006175	0.017290	0.000296	0.001852	0.039519	0.000019	0.004322	0.001358	0.000309	0.003087
4-Nov-2021	0.009562	4.374560	4.480350	2.364630	20.660823	0.006223	0.001245	0.006223	0.017424	0.000299	0.001867	0.039825	0.000019	0.004356	0.001369	0.000311	0.003111

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Nov-2021	0.009641	4.408420	4.515020	2.382930	20.820730	0.006271	0.001254	0.006271	0.017558	0.000301	0.001881	0.040134	0.000019	0.004390	0.001380	0.000314	0.003135
6-Nov-2021	0.009715	4.443590	4.551050	2.401940	20.986833	0.006321	0.001264	0.006321	0.017699	0.000303	0.001896	0.040454	0.000019	0.004425	0.001391	0.000316	0.003160
7-Nov-2021	0.009740	4.479000	4.587310	2.421080	21.154070	0.006371	0.001274	0.006371	0.017840	0.000306	0.001911	0.040776	0.000019	0.004460	0.001402	0.000319	0.003186
8-Nov-2021	0.009753	4.516560	4.625780	2.441390	21.331494	0.006425	0.001285	0.006425	0.017989	0.000308	0.001927	0.041118	0.000019	0.004497	0.001413	0.000321	0.003212
9-Nov-2021	0.009790	4.557450	4.667660	2.463490	21.524604	0.006483	0.001297	0.006483	0.018152	0.000311	0.001945	0.041490	0.000019	0.004538	0.001426	0.000324	0.003241
10-Nov-2021	0.009862	4.599690	4.710920	2.486320	21.724092	0.006543	0.001309	0.006543	0.018320	0.000314	0.001963	0.041875	0.000020	0.004580	0.001439	0.000327	0.003271
11-Nov-2021	0.009953	4.639030	4.751210	2.507580	21.909872	0.006599	0.001320	0.006599	0.018477	0.000317	0.001980	0.042233	0.000020	0.004619	0.001452	0.000330	0.003299
12-Nov-2021	0.010038	4.671560	4.784520	2.525170	22.063535	0.006645	0.001329	0.006645	0.018607	0.000319	0.001994	0.042529	0.000020	0.004652	0.001462	0.000332	0.003323
13-Nov-2021	0.010097	4.696090	4.809660	2.538430	22.179391	0.006680	0.001336	0.006680	0.018704	0.000321	0.002004	0.042753	0.000020	0.004676	0.001470	0.000334	0.003340
14-Nov-2021	0.010158	4.721530	4.835700	2.552180	22.299538	0.006716	0.001343	0.006716	0.018806	0.000322	0.002015	0.042984	0.000020	0.004701	0.001478	0.000336	0.003358
15-Nov-2021	0.010197	4.759400	4.874490	2.572650	22.478395	0.006770	0.001354	0.006770	0.018956	0.000325	0.002031	0.043329	0.000020	0.004739	0.001489	0.000339	0.003385
16-Nov-2021	0.010191	4.800110	4.916190	2.594650	22.670643	0.006828	0.001366	0.006828	0.019119	0.000328	0.002048	0.043699	0.000020	0.004780	0.001502	0.000341	0.003414
17-Nov-2021	0.010210	4.830190	4.946990	2.610910	22.812712	0.006871	0.001374	0.006871	0.019238	0.000330	0.002061	0.043973	0.000021	0.004810	0.001512	0.000344	0.003435
18-Nov-2021	0.010223	4.870450	4.988220	2.632670	23.002849	0.006928	0.001386	0.006928	0.019399	0.000333	0.002078	0.044340	0.000021	0.004850	0.001524	0.000346	0.003464
19-Nov-2021	0.010225	4.924130	5.043210	2.661690	23.256392	0.007004	0.001401	0.007004	0.019613	0.000336	0.002101	0.044829	0.000021	0.004903	0.001541	0.000350	0.003502
20-Nov-2021	0.010249	4.961170	5.081140	2.681710	23.431323	0.007057	0.001411	0.007057	0.019760	0.000339	0.002117	0.045166	0.000021	0.004940	0.001553	0.000353	0.003529
21-Nov-2021	0.010265	4.989780	5.110450	2.697180	23.566468	0.007098	0.001420	0.007098	0.019874	0.000341	0.002129	0.045426	0.000021	0.004968	0.001562	0.000355	0.003549
22-Nov-2021	0.010278	5.024270	5.145770	2.715820	23.729349	0.007147	0.001429	0.007147	0.020011	0.000343	0.002144	0.045740	0.000021	0.005003	0.001572	0.000357	0.003573
23-Nov-2021	0.010279	5.066430	5.188940	2.738610	23.928472	0.007207	0.001441	0.007207	0.020179	0.000346	0.002162	0.046124	0.000022	0.005045	0.001586	0.000360	0.003603
24-Nov-2021	0.010295	5.098950	5.222250	2.756190	24.082069	0.007253	0.001451	0.007253	0.020309	0.000348	0.002176	0.046420	0.000022	0.005077	0.001596	0.000363	0.003627
25-Nov-2021	0.010602	4.311510	4.415780	2.330550	20.363045	0.006133	0.001227	0.006133	0.017173	0.000294	0.001840	0.039251	0.000018	0.004293	0.001349	0.000307	0.003067
26-Nov-2021	0.010630	4.330740	4.435470	2.340940	20.453849	0.006160	0.001232	0.006160	0.017249	0.000296	0.001848	0.039426	0.000018	0.004312	0.001355	0.000308	0.003080
27-Nov-2021	0.010648	4.349400	4.454580	2.351030	20.541993	0.006187	0.001237	0.006187	0.017323	0.000297	0.001856	0.039596	0.000019	0.004331	0.001361	0.000309	0.003093
28-Nov-2021	0.010654	4.368710	4.474360	2.361470	20.633202	0.006214	0.001243	0.006214	0.017400	0.000298	0.001864	0.039772	0.000019	0.004350	0.001367	0.000311	0.003107
29-Nov-2021	0.010644	4.390070	4.496230	2.373010	20.734060	0.006245	0.001249	0.006245	0.017485	0.000300	0.001873	0.039967	0.000019	0.004371	0.001374	0.000312	0.003122
30-Nov-2021	0.010586	4.414470	4.521220	2.386200	20.849303	0.006279	0.001256	0.006279	0.017583	0.000301	0.001884	0.040189	0.000019	0.004396	0.001381	0.000314	0.003140
1-Dec-2021	0.010606	4.434540	4.541780	2.397050	20.944098	0.006308	0.001262	0.006308	0.017663	0.000303	0.001892	0.040371	0.000019	0.004416	0.001388	0.000315	0.003154
2-Dec-2021	0.010665	4.452210	4.559870	2.406600	21.027547	0.006333	0.001267	0.006333	0.017733	0.000304	0.001900	0.040532	0.000019	0.004433	0.001393	0.000317	0.003167
3-Dec-2021	0.010674	4.463820	4.571770	2.412880	21.082398	0.006350	0.001270	0.006350	0.017779	0.000305	0.001905	0.040638	0.000019	0.004445	0.001397	0.000317	0.003175
4-Dec-2021	0.010682	4.474810	4.583020	2.418810	21.134260	0.006365	0.001273	0.006365	0.017823	0.000306	0.001910	0.040738	0.000019	0.004456	0.001400	0.000318	0.003183
5-Dec-2021	0.010687	4.488550	4.597090	2.426240	21.199166	0.006385	0.001277	0.006385	0.017878	0.000306	0.001915	0.040863	0.000019	0.004469	0.001405	0.000319	0.003192
6-Dec-2021	0.010670	4.501600	4.610460	2.433300	21.260825	0.006403	0.001281	0.006403	0.017930	0.000307	0.001921	0.040982	0.000019	0.004482	0.001409	0.000320	0.003202
7-Dec-2021	0.010656	4.515450	4.624640	2.440780	21.326211	0.006423	0.001285	0.006423	0.017985	0.000308	0.001927	0.041108	0.000019	0.004496	0.001413	0.000321	0.003212
8-Dec-2021	0.010638	4.531550	4.641130	2.449490	21.402280	0.006446	0.001289	0.006446	0.018049	0.000309	0.001934	0.041255	0.000019	0.004512	0.001418	0.000322	0.003223
9-Dec-2021	0.010631	4.545730	4.655650	2.457150	21.469232	0.006466	0.001293	0.006466	0.018105	0.000310	0.001940	0.041384	0.000019	0.004526	0.001423	0.000323	0.003233
10-Dec-2021	0.010615	4.563030	4.673380	2.466500	21.550933	0.006491	0.001298	0.006491	0.018174	0.000312	0.001947	0.041541	0.000019	0.004544	0.001428	0.000325	0.003245
11-Dec-2021	0.010599	4.581010	4.691790	2.476220	21.635856	0.006516	0.001303	0.006516	0.018246	0.000313	0.001955	0.041705	0.000020	0.004561	0.001434	0.000326	0.003258
12-Dec-2021	0.010563	4.611520	4.723040	2.492710	21.779945	0.006560	0.001312	0.006560	0.018367	0.000315	0.001968	0.041983	0.000020	0.004592	0.001443	0.000328	0.003280
13-Dec-2021	0.010539	4.640480	4.752700	2.508370	21.916746	0.006601	0.001320	0.006601	0.018483	0.000317	0.001980	0.042246	0.000020	0.004621	0.001452	0.000330	0.003300
14-Dec-2021	0.010530	4.663810	4.776590	2.520980	22.026929	0.006634	0.001327	0.006634	0.018576	0.000318	0.001990	0.042459	0.000020	0.004644	0.001460	0.000332	0.003317
15-Dec-2021	0.010523	4.682890	4.796130	2.531290	22.117029	0.006661	0.001332	0.006661	0.018652	0.000320	0.001998	0.042632	0.000020	0.004663	0.001465	0.000333	0.003331
16-Dec-2021	0.010518	4.694490	4.808010	2.537560	22.171814	0.006678	0.001336	0.006678	0.018698	0.000321	0.002003	0.042738	0.000020	0.004674	0.001469	0.000334	0.003339
17-Dec-2021	0.010514	4.705070	4.818850	2.543280	22.221787	0.006693	0.001339	0.006693	0.018740	0.000321	0.002008	0.042834	0.000020	0.004685	0.001472	0.000335	0.003346
18-Dec-2021	0.010503	4.723560	4.837790	2.553280	22.309136	0.006719	0.001344	0.006719	0.018814	0.000323	0.002016	0.043003	0.000020	0.004703	0.001478	0.000336	0.003360
19-Dec-2021	0.010487	4.750730	4.865610	2.567960	22.437432	0.006758	0.001352	0.006758	0.018922	0.000324	0.002027	0.043250	0.000020	0.004730	0.001487	0.000338	0.003379
20-Dec-2021	0.010476	4.778860	4.894420	2.583170	22.570307	0.006798	0.001360	0.006798	0.019034	0.000326	0.002039	0.043506	0.000020	0.004758	0.001496	0.000340	0.003399
21-Dec-2021	0.010472	4.806020	4.922240	2.597850	22.698578	0.006836	0.001367	0.006836	0.019142	0.000328	0.002051	0.043753	0.000021	0.004786	0.001504	0.000342	0.003418
22-Dec-2021	0.010469	4.824580	4.941250	2.607880	22.786226	0.006863	0.001373	0.006863	0.019216	0.000329	0.002059	0.043922	0.000021	0.004804	0.001510	0.000343	0.003431
23-Dec-2021	0.010461	4.846030	4.963220	2.619480	22.887556	0.006893	0.001379	0.006893	0.019301	0.000331	0.002068	0.044118	0.000021	0.004825	0.001517	0.000345	0.003447
24-Dec-2021	0.010452	4.874050	4.991920	2.634620	23.019868	0.006933	0.001387	0.006933	0.019413	0.000333	0.002080	0.044373	0.000021	0.004853	0.001525	0.000347	0.003467
25-Dec-2021	0.010444	4.904540	5.023140	2.651100	23.163866	0.006977	0.001395	0.006977	0.019534	0.000335	0.002093	0.044650	0.000021	0.004884	0.001535	0.000349	0.003488

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
26-Dec-2021	0.010437	4.937400	5.056800	2.668860	23.319053	0.007023	0.001405	0.007023	0.019665	0.000337	0.002107	0.044949	0.000021	0.004916	0.001545	0.000351	0.003512
27-Dec-2021	0.010430	4.973280	5.093550	2.688260	23.488535	0.007074	0.001415	0.007074	0.019808	0.000340	0.002122	0.045276	0.000021	0.004952	0.001556	0.000354	0.003537
28-Dec-2021	0.010424	5.009670	5.130810	2.707930	23.660402	0.007126	0.001425	0.007126	0.019953	0.000342	0.002138	0.045607	0.000021	0.004988	0.001568	0.000356	0.003563
29-Dec-2021	0.010419	5.044640	5.166630	2.726830	23.825552	0.007176	0.001435	0.007176	0.020092	0.000344	0.002153	0.045926	0.000022	0.005023	0.001579	0.000359	0.003588
30-Dec-2021	0.010415	5.078440	5.201250	2.745100	23.985186	0.007224	0.001445	0.007224	0.020227	0.000347	0.002167	0.046233	0.000022	0.005057	0.001589	0.000361	0.003612
31-Dec-2021	0.010412	5.108490	5.232020	2.761350	24.127139	0.007267	0.001453	0.007267	0.020347	0.000349	0.002180	0.046507	0.000022	0.005087	0.001599	0.000363	0.003633
1-Jan-2022	0.010409	5.136200	5.260410	2.776330	24.258018	0.007306	0.001461	0.007306	0.020457	0.000351	0.002192	0.046759	0.000022	0.005114	0.001607	0.000365	0.003653
2-Jan-2022	0.010405	5.163790	5.288660	2.791240	24.388310	0.007345	0.001469	0.007345	0.020567	0.000353	0.002204	0.047010	0.000022	0.005142	0.001616	0.000367	0.003673
3-Jan-2022	0.010402	5.191260	5.316790	2.806080	24.518014	0.007384	0.001477	0.007384	0.020676	0.000354	0.002215	0.047260	0.000022	0.005169	0.001625	0.000369	0.003692
4-Jan-2022	0.010398	5.226500	5.352890	2.825130	24.684456	0.007435	0.001487	0.007435	0.020817	0.000357	0.002230	0.047581	0.000022	0.005204	0.001636	0.000372	0.003717
5-Jan-2022	0.010395	5.260410	5.387610	2.843460	24.844612	0.007483	0.001497	0.007483	0.020952	0.000359	0.002245	0.047890	0.000022	0.005238	0.001646	0.000374	0.003741
6-Jan-2022	0.010392	5.295520	5.423580	2.862440	25.010441	0.007533	0.001507	0.007533	0.021092	0.000362	0.002260	0.048210	0.000023	0.005273	0.001657	0.000377	0.003766
7-Jan-2022	0.010389	5.332810	5.461770	2.882600	25.186573	0.007586	0.001517	0.007586	0.021240	0.000364	0.002276	0.048549	0.000023	0.005310	0.001669	0.000379	0.003793
8-Jan-2022	0.010385	5.369630	5.499470	2.902500	25.360461	0.007638	0.001528	0.007638	0.021387	0.000367	0.002291	0.048884	0.000023	0.005347	0.001680	0.000382	0.003819
9-Jan-2022	0.010382	5.407740	5.538510	2.923100	25.540453	0.007692	0.001538	0.007692	0.021539	0.000369	0.002308	0.049231	0.000023	0.005385	0.001692	0.000385	0.003846
10-Jan-2022	0.010380	5.453880	5.585770	2.948040	25.758367	0.007758	0.001552	0.007758	0.021722	0.000372	0.002327	0.049651	0.000023	0.005431	0.001707	0.000388	0.003879
11-Jan-2022	0.010379	5.500120	5.633120	2.973040	25.976778	0.007824	0.001565	0.007824	0.021907	0.000376	0.002347	0.050072	0.000023	0.005477	0.001721	0.000391	0.003912
12-Jan-2022	0.010377	5.540940	5.674930	2.995100	26.169549	0.007882	0.001576	0.007882	0.022069	0.000378	0.002365	0.050444	0.000024	0.005517	0.001734	0.000394	0.003941
13-Jan-2022	0.010376	5.500200	5.633210	2.973080	25.977143	0.007824	0.001565	0.007824	0.021907	0.000376	0.002347	0.050073	0.000023	0.005477	0.001721	0.000391	0.003912
14-Jan-2022	0.010377	5.528470	5.662160	2.988360	26.110656	0.007864	0.001573	0.007864	0.022020	0.000377	0.002359	0.050330	0.000024	0.005505	0.001730	0.000393	0.003932
15-Jan-2022	0.010377	5.562700	5.697220	3.006870	26.272353	0.007913	0.001583	0.007913	0.022156	0.000380	0.002374	0.050642	0.000024	0.005539	0.001741	0.000396	0.003956
16-Jan-2022	0.010377	5.599130	5.734530	3.026560	26.444402	0.007965	0.001593	0.007965	0.022301	0.000382	0.002389	0.050974	0.000024	0.005575	0.001752	0.000398	0.003982
17-Jan-2022	0.010377	5.635920	5.772210	3.046440	26.618132	0.008017	0.001603	0.008017	0.022448	0.000385	0.002405	0.051309	0.000024	0.005612	0.001764	0.000401	0.004008
18-Jan-2022	0.010377	5.659370	5.796220	3.059120	26.728903	0.008050	0.001610	0.008050	0.022541	0.000386	0.002415	0.051522	0.000024	0.005635	0.001771	0.000403	0.004025
19-Jan-2022	0.010376	5.696610	5.834360	3.079250	26.904787	0.008103	0.001621	0.008103	0.022689	0.000389	0.002431	0.051861	0.000024	0.005672	0.001783	0.000405	0.004052
20-Jan-2022	0.010375	5.743740	5.882640	3.104730	27.127397	0.008170	0.001634	0.008170	0.022877	0.000392	0.002451	0.052290	0.000025	0.005719	0.001797	0.000409	0.004085
21-Jan-2022	0.010375	5.800010	5.940270	3.135140	27.393131	0.008250	0.001650	0.008250	0.023101	0.000396	0.002475	0.052802	0.000025	0.005775	0.001815	0.000413	0.004125
22-Jan-2022	0.010374	5.850140	5.991610	3.162240	27.629904	0.008322	0.001664	0.008322	0.023301	0.000399	0.002497	0.053259	0.000025	0.005825	0.001831	0.000416	0.004161
23-Jan-2022	0.010374	5.897010	6.039610	3.187570	27.851247	0.008388	0.001678	0.008388	0.023487	0.000403	0.002517	0.053685	0.000025	0.005872	0.001845	0.000419	0.004194
24-Jan-2022	0.010373	5.941580	6.085260	3.211660	28.061741	0.008452	0.001690	0.008452	0.023665	0.000406	0.002536	0.054091	0.000025	0.005916	0.001859	0.000423	0.004226
25-Jan-2022	0.010373	5.987450	6.132240	3.236460	28.278405	0.008517	0.001703	0.008517	0.023848	0.000409	0.002555	0.054509	0.000026	0.005962	0.001874	0.000426	0.004259
26-Jan-2022	0.010373	6.037480	6.183480	3.263500	28.514681	0.008588	0.001718	0.008588	0.024047	0.000412	0.002576	0.054964	0.000026	0.006012	0.001889	0.000429	0.004294
27-Jan-2022	0.010372	6.075890	6.222820	3.284270	28.696121	0.008643	0.001729	0.008643	0.024200	0.000415	0.002593	0.055314	0.000026	0.006050	0.001901	0.000432	0.004321
28-Jan-2022	0.010372	6.050890	6.197220	3.270750	28.578021	0.008607	0.001721	0.008607	0.024100	0.000413	0.002582	0.055086	0.000026	0.006025	0.001894	0.000430	0.004304
29-Jan-2022	0.010372	6.099020	6.246510	3.296770	28.805352	0.008676	0.001735	0.008676	0.024292	0.000416	0.002603	0.055525	0.000026	0.006073	0.001909	0.000434	0.004338
30-Jan-2022	0.010372	6.156360	6.305240	3.327760	29.076147	0.008757	0.001751	0.008757	0.024520	0.000420	0.002627	0.056047	0.000026	0.006130	0.001927	0.000438	0.004379
31-Jan-2022	0.010372	6.233210	6.383940	3.369300	29.439103	0.008867	0.001773	0.008867	0.024826	0.000426	0.002660	0.056746	0.000027	0.006207	0.001951	0.000443	0.004433
1-Feb-2022	0.010372	6.295260	6.447490	3.402840	29.732159	0.008955	0.001791	0.008955	0.025074	0.000430	0.002686	0.057311	0.000027	0.006268	0.001970	0.000448	0.004477
2-Feb-2022	0.010372	6.356250	6.509950	3.435810	30.020222	0.009042	0.001808	0.009042	0.025317	0.000434	0.002712	0.057866	0.000027	0.006329	0.001989	0.000452	0.004521
3-Feb-2022	0.010372	6.411280	6.566320	3.465560	30.280142	0.009120	0.001824	0.009120	0.025536	0.000438	0.002736	0.058367	0.000027	0.006384	0.002006	0.000456	0.004560
4-Feb-2022	0.010372	6.468720	6.625150	3.496610	30.551434	0.009202	0.001840	0.009202	0.025765	0.000442	0.002760	0.058890	0.000028	0.006441	0.002024	0.000460	0.004601
5-Feb-2022	0.010372	6.527350	6.685190	3.528290	30.828291	0.009285	0.001857	0.009285	0.025998	0.000446	0.002786	0.059424	0.000028	0.006499	0.002043	0.000464	0.004642
6-Feb-2022	0.010372	6.587280	6.746570	3.560690	31.111360	0.009370	0.001874	0.009370	0.026237	0.000450	0.002811	0.059970	0.000028	0.006559	0.002061	0.000469	0.004685
7-Feb-2022	0.010372	6.652600	6.813470	3.596000	31.419870	0.009463	0.001893	0.009463	0.026497	0.000454	0.002839	0.060564	0.000028	0.006624	0.002082	0.000473	0.004732
8-Feb-2022	0.010371	6.658110	6.819120	3.598980	31.445900	0.009471	0.001894	0.009471	0.026519	0.000455	0.002841	0.060614	0.000028	0.006630	0.002084	0.000474	0.004736
9-Feb-2022	0.010371	6.716730	6.879160	3.630670	31.722774	0.009554	0.001911	0.009554	0.026752	0.000459	0.002866	0.061148	0.000029	0.006688	0.002102	0.000478	0.004777
10-Feb-2022	0.010371	6.764140	6.927710	3.656290	31.946660	0.009622	0.001924	0.009622	0.026941	0.000462	0.002887	0.061580	0.000029	0.006735	0.002117	0.000481	0.004811
11-Feb-2022	0.010371	6.810170	6.974850	3.681170	32.164053	0.009687	0.001937	0.009687	0.027124	0.000465	0.002906	0.061999	0.000029	0.006781	0.002131	0.000484	0.004844
12-Feb-2022	0.010371	6.860490	7.026390	3.708370	32.401711	0.009759	0.001952	0.009759	0.027325	0.000468	0.002928	0.062457	0.000029	0.006831	0.002147	0.000488	0.004879
13-Feb-2022	0.010371	6.914320	7.081520	3.737470	32.655959	0.009835	0.001967	0.009835	0.027539	0.000472	0.002951	0.062947	0.000030	0.006885	0.002164	0.000492	0.004918
14-Feb-2022	0.010371	6.941400	7.109260	3.752110	32.783865	0.009874	0.001975	0.009874	0.027647	0.000474	0.002962	0.063193	0.000030	0.006912	0.002172	0.000494	0.004937

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Feb-2022	0.010371	6.966150	7.134600	3.765480	32.900723	0.009909	0.001982	0.009909	0.027746	0.000476	0.002973	0.063419	0.000030	0.006936	0.002180	0.000495	0.004955
16-Feb-2022	0.010371	7.002510	7.171850	3.785140	33.072474	0.009961	0.001992	0.009961	0.027891	0.000478	0.002988	0.063750	0.000030	0.006973	0.002191	0.000498	0.004980
17-Feb-2022	0.010371	7.047040	7.217460	3.809210	33.282786	0.010024	0.002005	0.010024	0.028068	0.000481	0.003007	0.064155	0.000030	0.007017	0.002205	0.000501	0.005012
18-Feb-2022	0.010371	7.130290	7.302710	3.854210	33.675971	0.010143	0.002029	0.010143	0.028399	0.000487	0.003043	0.064913	0.000030	0.007100	0.002231	0.000507	0.005071
19-Feb-2022	0.010371	7.117430	7.289540	3.847260	33.615239	0.010124	0.002025	0.010124	0.028348	0.000486	0.003037	0.064796	0.000030	0.007087	0.002227	0.000506	0.005062
20-Feb-2022	0.010371	7.141690	7.314390	3.860370	33.729804	0.010159	0.002032	0.010159	0.028445	0.000488	0.003048	0.065017	0.000030	0.007111	0.002235	0.000508	0.005079
21-Feb-2022	0.010371	7.198830	7.372910	3.891260	33.999687	0.010240	0.002048	0.010240	0.028672	0.000492	0.003072	0.065537	0.000031	0.007168	0.002253	0.000512	0.005120
22-Feb-2022	0.010371	7.278550	7.454560	3.934350	34.376193	0.010354	0.002071	0.010354	0.028990	0.000497	0.003106	0.066263	0.000031	0.007247	0.002278	0.000518	0.005177
23-Feb-2022	0.010371	7.363230	7.541290	3.980130	34.776161	0.010474	0.002095	0.010474	0.029327	0.000503	0.003142	0.067034	0.000031	0.007332	0.002304	0.000524	0.005237
24-Feb-2022	0.010371	7.429080	7.608730	4.015720	35.087148	0.010568	0.002114	0.010568	0.029590	0.000507	0.003170	0.067633	0.000032	0.007397	0.002325	0.000528	0.005284
25-Feb-2022	0.010371	7.416000	7.595340	4.008650	35.025373	0.010549	0.002110	0.010549	0.029537	0.000506	0.003165	0.067514	0.000032	0.007384	0.002321	0.000527	0.005275
26-Feb-2022	0.010371	7.373260	7.551560	3.985540	34.823484	0.010488	0.002098	0.010488	0.029367	0.000503	0.003146	0.067125	0.000031	0.007342	0.002307	0.000524	0.005244
27-Feb-2022	0.010371	7.356360	7.534250	3.976410	34.743687	0.010464	0.002093	0.010464	0.029300	0.000502	0.003139	0.066971	0.000031	0.007325	0.002302	0.000523	0.005232
28-Feb-2022	0.010371	7.381810	7.560320	3.990170	34.863900	0.010500	0.002100	0.010500	0.029401	0.000504	0.003150	0.067203	0.000032	0.007350	0.002310	0.000525	0.005250
1-Mar-2022	0.010371	7.425760	7.605330	4.013920	35.071445	0.010563	0.002113	0.010563	0.029576	0.000507	0.003169	0.067603	0.000032	0.007394	0.002324	0.000528	0.005281
2-Mar-2022	0.010371	6.859160	7.025020	3.707650	32.395425	0.009757	0.001951	0.009757	0.027320	0.000468	0.002927	0.062445	0.000029	0.006830	0.002147	0.000488	0.004878
3-Mar-2022	0.010371	6.878580	7.044920	3.718150	32.487156	0.009785	0.001957	0.009785	0.027397	0.000470	0.002935	0.062622	0.000029	0.006849	0.002153	0.000489	0.004892
4-Mar-2022	0.010371	6.914270	7.081470	3.737440	32.655710	0.009835	0.001967	0.009835	0.027539	0.000472	0.002951	0.062946	0.000030	0.006885	0.002164	0.000492	0.004918
5-Mar-2022	0.010371	7.000390	7.169670	3.783990	33.062445	0.009958	0.001992	0.009958	0.027882	0.000478	0.002987	0.063730	0.000030	0.006971	0.002191	0.000498	0.004979
6-Mar-2022	0.010371	7.039130	7.209350	3.804940	33.245451	0.010013	0.002003	0.010013	0.028036	0.000481	0.003004	0.064083	0.000030	0.007009	0.002203	0.000501	0.005006
7-Mar-2022	0.010371	7.056320	7.226960	3.814230	33.326630	0.010037	0.002007	0.010037	0.028105	0.000482	0.003011	0.064240	0.000030	0.007026	0.002208	0.000502	0.005019
8-Mar-2022	0.010371	7.094850	7.266410	3.835050	33.508576	0.010092	0.002018	0.010092	0.028258	0.000484	0.003028	0.064590	0.000030	0.007065	0.002220	0.000505	0.005046
9-Mar-2022	0.010371	7.140390	7.313060	3.859670	33.723675	0.010157	0.002031	0.010157	0.028440	0.000488	0.003047	0.065005	0.000030	0.007110	0.002235	0.000508	0.005079
10-Mar-2022	0.010371	7.177840	7.351420	3.879910	33.900536	0.010210	0.002042	0.010210	0.028589	0.000490	0.003063	0.065346	0.000031	0.007147	0.002246	0.000511	0.005105
11-Mar-2022	0.010371	7.208820	7.383150	3.896660	34.046869	0.010254	0.002051	0.010254	0.028712	0.000492	0.003076	0.065628	0.000031	0.007178	0.002256	0.000513	0.005127
12-Mar-2022	0.010371	7.251930	7.427290	3.919960	34.250464	0.010316	0.002063	0.010316	0.028884	0.000495	0.003095	0.066020	0.000031	0.007221	0.002269	0.000516	0.005158
13-Mar-2022	0.010371	7.301500	7.478070	3.946760	34.484603	0.010386	0.002077	0.010386	0.029081	0.000499	0.003116	0.066472	0.000031	0.007270	0.002285	0.000519	0.005193
14-Mar-2022	0.010371	7.353110	7.530930	3.974660	34.728366	0.010460	0.002092	0.010460	0.029287	0.000502	0.003138	0.066942	0.000031	0.007322	0.002301	0.000523	0.005230
15-Mar-2022	0.010371	7.417640	7.597010	4.009530	35.033092	0.010551	0.002110	0.010551	0.029544	0.000506	0.003165	0.067529	0.000032	0.007386	0.002321	0.000528	0.005276
16-Mar-2022	0.010371	7.485430	7.666440	4.046180	35.353288	0.010648	0.002130	0.010648	0.029814	0.000511	0.003194	0.068146	0.000032	0.007453	0.002343	0.000532	0.005324
17-Mar-2022	0.010371	7.562860	7.745750	4.088030	35.718969	0.010758	0.002152	0.010758	0.030122	0.000516	0.003227	0.068851	0.000032	0.007531	0.002367	0.000538	0.005379
18-Mar-2022	0.010371	7.644180	7.829030	4.131990	36.103052	0.010874	0.002175	0.010874	0.030446	0.000522	0.003262	0.069591	0.000033	0.007612	0.002392	0.000544	0.005437
19-Mar-2022	0.010371	7.733660	7.920670	4.180360	36.525672	0.011001	0.002200	0.011001	0.030803	0.000528	0.003300	0.070406	0.000033	0.007701	0.002420	0.000550	0.005500
20-Mar-2022	0.010371	7.822240	8.011400	4.228240	36.944026	0.011127	0.002225	0.011127	0.031156	0.000534	0.003338	0.071213	0.000033	0.007789	0.002448	0.000556	0.005563
21-Mar-2022	0.010371	7.890630	8.081450	4.265210	37.267038	0.011224	0.002245	0.011224	0.031428	0.000539	0.003367	0.071835	0.000034	0.007857	0.002469	0.000561	0.005612
22-Mar-2022	0.010371	7.981140	8.174140	4.314130	37.694494	0.011353	0.002271	0.011353	0.031788	0.000545	0.003406	0.072659	0.000034	0.007947	0.002498	0.000568	0.005676
23-Mar-2022	0.010371	8.079190	8.274560	4.367130	38.157579	0.011492	0.002298	0.011492	0.032179	0.000552	0.003448	0.073552	0.000034	0.008045	0.002528	0.000575	0.005746
24-Mar-2022	0.010371	8.187870	8.385870	4.425880	38.670885	0.011647	0.002329	0.011647	0.032612	0.000559	0.003494	0.074541	0.000035	0.008153	0.002562	0.000582	0.005824
25-Mar-2022	0.010371	8.310340	8.511300	4.492070	39.249263	0.011821	0.002364	0.011821	0.033100	0.000567	0.003546	0.075656	0.000035	0.008275	0.002601	0.000591	0.005911
26-Mar-2022	0.010371	8.444440	8.648640	4.564560	39.882625	0.012012	0.002402	0.012012	0.033634	0.000577	0.003604	0.076877	0.000036	0.008408	0.002643	0.000601	0.006006
27-Mar-2022	0.010371	8.580720	8.788220	4.638230	40.526289	0.012206	0.002441	0.012206	0.034176	0.000586	0.003662	0.078118	0.000037	0.008544	0.002685	0.000610	0.006103
28-Mar-2022	0.010371	8.711650	8.922320	4.709000	41.144652	0.012392	0.002478	0.012392	0.034698	0.000595	0.003718	0.079310	0.000037	0.008674	0.002726	0.000620	0.006196
29-Mar-2022	0.010371	8.825720	9.039150	4.770660	41.683401	0.012554	0.002511	0.012554	0.035152	0.000603	0.003766	0.080348	0.000038	0.008788	0.002762	0.000628	0.006277
30-Mar-2022	0.010371	8.925210	9.141040	4.824440	42.153293	0.012696	0.002539	0.012696	0.035549	0.000609	0.003809	0.081254	0.000038	0.008887	0.002793	0.000635	0.006348
31-Mar-2022	0.010371	9.005350	9.223120	4.867760	42.531795	0.012810	0.002562	0.012810	0.035868	0.000615	0.003843	0.081983	0.000038	0.008967	0.002818	0.000640	0.006405
1-Apr-2022	0.010371	9.076300	9.295790	4.906110	42.866882	0.012911	0.002582	0.012911	0.036150	0.000620	0.003873	0.082629	0.000039	0.009038	0.002840	0.000646	0.006455
2-Apr-2022	0.010371	9.099280	9.319320	4.918530	42.975409	0.012944	0.002589	0.012944	0.036242	0.000621	0.003883	0.082838	0.000039	0.009060	0.002848	0.000647	0.006472
3-Apr-2022	0.010371	9.085690	9.305400	4.911180	42.911207	0.012924	0.002585	0.012924	0.036188	0.000620	0.003877	0.082715	0.000039	0.009047	0.002843	0.000646	0.006462
4-Apr-2022	0.010371	9.059650	9.278730	4.897110	42.788245	0.012887	0.002577	0.012887	0.036084	0.000619	0.003866	0.082478	0.000039	0.009021	0.002835	0.000644	0.006444
5-Apr-2022	0.010371	9.025200	9.243450	4.878490	42.625546	0.012838	0.002568	0.012838	0.035947	0.000616	0.003851	0.082164	0.000039	0.008987	0.002824	0.000642	0.006419
6-Apr-2022	0.010371	8.984370	9.201630	4.856420	42.432709	0.012780	0.002556	0.012780	0.035784	0.000613	0.003834	0.081792	0.000038	0.008946	0.002812	0.000639	0.006390

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Apr-2022	0.010371	8.940860	9.157070	4.832900	42.227210	0.012718	0.002544	0.012718	0.035611	0.000610	0.003815	0.081396	0.000038	0.008903	0.002798	0.000636	0.006359
8-Apr-2022	0.010371	8.901790	9.117060	4.811780	42.042680	0.012663	0.002533	0.012663	0.035455	0.000608	0.003799	0.081041	0.000038	0.008864	0.002786	0.000633	0.006331
9-Apr-2022	0.010371	8.868040	9.082490	4.793530	41.883252	0.012615	0.002523	0.012615	0.035321	0.000605	0.003784	0.080733	0.000038	0.008830	0.002775	0.000631	0.006307
10-Apr-2022	0.010371	8.839040	9.052780	4.777860	41.746310	0.012573	0.002515	0.012573	0.035205	0.000604	0.003772	0.080469	0.000038	0.008801	0.002766	0.000629	0.006287
11-Apr-2022	0.010371	8.814140	9.027280	4.764400	41.628707	0.012538	0.002508	0.012538	0.035106	0.000602	0.003761	0.080243	0.000038	0.008777	0.002758	0.000627	0.006269
12-Apr-2022	0.010371	8.792720	9.005350	4.752820	41.527535	0.012507	0.002501	0.012507	0.035021	0.000600	0.003752	0.080048	0.000038	0.008755	0.002752	0.000625	0.006254
13-Apr-2022	0.010371	8.773450	8.985610	4.742410	41.436549	0.012480	0.002496	0.012480	0.034944	0.000599	0.003744	0.079872	0.000037	0.008736	0.002746	0.000624	0.006240
14-Apr-2022	0.010371	8.755860	8.967600	4.732900	41.353465	0.012455	0.002491	0.012455	0.034874	0.000598	0.003737	0.079712	0.000037	0.008719	0.002740	0.000623	0.006228
15-Apr-2022	0.010371	8.739940	8.951290	4.724290	41.278256	0.012432	0.002486	0.012432	0.034811	0.000597	0.003730	0.079567	0.000037	0.008703	0.002735	0.000622	0.006216
16-Apr-2022	0.010371	8.725490	8.936490	4.716480	41.210013	0.012412	0.002482	0.012412	0.034753	0.000596	0.003724	0.079435	0.000037	0.008688	0.002731	0.000621	0.006206
17-Apr-2022	0.010371	8.712260	8.922940	4.709330	41.147534	0.012393	0.002479	0.012393	0.034700	0.000595	0.003718	0.079315	0.000037	0.008675	0.002726	0.000620	0.006196
18-Apr-2022	0.010371	8.700090	8.910470	4.702750	41.090049	0.012376	0.002475	0.012376	0.034652	0.000594	0.003713	0.079204	0.000037	0.008663	0.002723	0.000619	0.006188
19-Apr-2022	0.010371	8.688870	8.898980	4.696690	41.037078	0.012360	0.002472	0.012360	0.034607	0.000593	0.003708	0.079102	0.000037	0.008652	0.002719	0.000618	0.006180
20-Apr-2022	0.010371	8.678520	8.888380	4.691090	40.988173	0.012345	0.002469	0.012345	0.034566	0.000593	0.003703	0.079008	0.000037	0.008641	0.002716	0.000617	0.006172
21-Apr-2022	0.010371	8.668930	8.878560	4.685910	40.942896	0.012331	0.002466	0.012331	0.034528	0.000592	0.003699	0.078921	0.000037	0.008632	0.002713	0.000617	0.006166
22-Apr-2022	0.010371	8.660010	8.869430	4.681090	40.900774	0.012319	0.002464	0.012319	0.034492	0.000591	0.003696	0.078839	0.000037	0.008623	0.002710	0.000616	0.006159
23-Apr-2022	0.010371	8.651700	8.860910	4.676590	40.861493	0.012307	0.002461	0.012307	0.034459	0.000591	0.003692	0.078764	0.000037	0.008615	0.002708	0.000615	0.006153
24-Apr-2022	0.010371	8.643920	8.852950	4.672390	40.824770	0.012296	0.002459	0.012296	0.034428	0.000590	0.003689	0.078693	0.000037	0.008607	0.002705	0.000615	0.006148
25-Apr-2022	0.010371	8.636640	8.845490	4.668450	40.790367	0.012285	0.002457	0.012285	0.034399	0.000590	0.003686	0.078627	0.000037	0.008600	0.002703	0.000614	0.006143
26-Apr-2022	0.010371	8.629780	8.838470	4.664750	40.758001	0.012276	0.002455	0.012276	0.034372	0.000589	0.003683	0.078564	0.000037	0.008593	0.002701	0.000614	0.006138
27-Apr-2022	0.010371	8.623320	8.831850	4.661260	40.727499	0.012267	0.002453	0.012267	0.034346	0.000589	0.003680	0.078505	0.000037	0.008587	0.002699	0.000613	0.006133
28-Apr-2022	0.010371	8.617220	8.825600	4.657960	40.698678	0.012258	0.002452	0.012258	0.034322	0.000588	0.003677	0.078450	0.000037	0.008580	0.002697	0.000613	0.006129
29-Apr-2022	0.010371	8.611430	8.819680	4.654830	40.671331	0.012250	0.002450	0.012250	0.034299	0.000588	0.003675	0.078397	0.000037	0.008575	0.002695	0.000612	0.006125
30-Apr-2022	0.010381	8.605760	8.813870	4.651760	40.644530	0.012242	0.002448	0.012242	0.034276	0.000588	0.003672	0.078346	0.000037	0.008569	0.002693	0.000612	0.006121
1-May-2022	0.010587	8.596900	8.804790	4.646970	40.602682	0.012229	0.002446	0.012229	0.034241	0.000587	0.003669	0.078265	0.000037	0.008560	0.002690	0.000611	0.006114
2-May-2022	0.011787	8.571400	8.778680	4.633190	40.482262	0.012193	0.002439	0.012193	0.034139	0.000585	0.003658	0.078033	0.000037	0.008535	0.002682	0.000610	0.006096
3-May-2022	0.018094	8.464010	8.668690	4.575140	39.975059	0.012040	0.002408	0.012040	0.033712	0.000578	0.003612	0.077055	0.000036	0.008428	0.002649	0.000602	0.006020
4-May-2022	0.027017	8.314510	8.515570	4.494330	39.268982	0.011827	0.002365	0.011827	0.033116	0.000568	0.003548	0.075694	0.000035	0.008279	0.002602	0.000591	0.005914
5-May-2022	0.035748	8.174690	8.372370	4.418750	38.608613	0.011628	0.002326	0.011628	0.032559	0.000558	0.003488	0.074421	0.000035	0.008140	0.002558	0.000581	0.005814
6-May-2022	0.044389	8.043190	8.237690	4.347670	37.987550	0.011441	0.002288	0.011441	0.032035	0.000549	0.003432	0.073224	0.000034	0.008009	0.002517	0.000572	0.005721
7-May-2022	0.059762	7.858290	8.048320	4.247720	37.114261	0.011178	0.002236	0.011178	0.031299	0.000537	0.003353	0.071541	0.000034	0.007825	0.002459	0.000559	0.005589
8-May-2022	0.067840	7.718840	7.905500	4.172350	36.455681	0.010980	0.002196	0.010980	0.030744	0.000527	0.003294	0.070271	0.000033	0.007686	0.002416	0.000549	0.005490
9-May-2022	0.074325	7.622530	7.806860	4.120290	36.000812	0.010843	0.002169	0.010843	0.030360	0.000520	0.003253	0.069394	0.000033	0.007590	0.002385	0.000542	0.005421
10-May-2022	0.071438	7.608930	7.792930	4.112940	35.936585	0.010824	0.002165	0.010824	0.030306	0.000520	0.003247	0.069271	0.000032	0.007576	0.002381	0.000541	0.005412
11-May-2022	0.121535	7.680920	7.866660	4.151850	36.276576	0.010926	0.002185	0.010926	0.030593	0.000524	0.003278	0.069926	0.000033	0.007648	0.002404	0.000546	0.005463
12-May-2022	0.128416	7.574100	7.757260	4.094110	35.772073	0.010774	0.002155	0.010774	0.030167	0.000517	0.003232	0.068953	0.000032	0.007542	0.002370	0.000539	0.005387
13-May-2022	0.133963	7.496840	7.678130	4.052350	35.407187	0.010664	0.002133	0.010664	0.029859	0.000512	0.003199	0.068250	0.000032	0.007465	0.002346	0.000533	0.005332
14-May-2022	0.131335	7.549990	7.732570	4.081080	35.658212	0.010740	0.002148	0.010740	0.030071	0.000516	0.003222	0.068734	0.000032	0.007518	0.002363	0.000537	0.005370
15-May-2022	0.133262	7.492240	7.673420	4.049860	35.385447	0.010658	0.002132	0.010658	0.029841	0.000512	0.003197	0.068208	0.000032	0.007460	0.002345	0.000533	0.005329
16-May-2022	0.139006	7.362440	7.540470	3.979690	34.772376	0.010473	0.002095	0.010473	0.029324	0.000503	0.003142	0.067026	0.000031	0.007331	0.002304	0.000524	0.005236
17-May-2022	0.146952	7.223140	7.397810	3.904400	34.114500	0.010275	0.002055	0.010275	0.028769	0.000493	0.003082	0.065758	0.000031	0.007192	0.002260	0.000514	0.005137
18-May-2022	0.155137	7.028620	7.198590	3.799260	33.195817	0.009998	0.002000	0.009998	0.027995	0.000480	0.002999	0.063988	0.000030	0.006999	0.002200	0.000500	0.004999
19-May-2022	0.174551	6.783230	6.947260	3.666610	32.036825	0.009649	0.001930	0.009649	0.027017	0.000463	0.002895	0.061753	0.000029	0.006754	0.002123	0.000482	0.004824
20-May-2022	0.207283	6.014440	6.159880	3.251050	28.405881	0.008555	0.001711	0.008555	0.023955	0.000411	0.002567	0.054755	0.000026	0.005989	0.001882	0.000428	0.004278
21-May-2022	0.208657	6.034270	6.180190	3.261770	28.499541	0.008584	0.001717	0.008584	0.024034	0.000412	0.002575	0.054935	0.000026	0.006009	0.001888	0.000429	0.004292
22-May-2022	0.220891	5.880120	6.022320	3.178450	27.771517	0.008364	0.001673	0.008364	0.023420	0.000401	0.002509	0.053532	0.000025	0.005855	0.001840	0.000418	0.004182
23-May-2022	0.207869	6.000320	6.145420	3.243420	28.339203	0.008535	0.001707	0.008535	0.023899	0.000410	0.002561	0.054626	0.000026	0.005975	0.001878	0.000427	0.004268
24-May-2022	0.231209	5.207070	5.332990	2.814630	24.592700	0.007407	0.001481	0.007407	0.020739	0.000356	0.002222	0.047404	0.000022	0.005185	0.001630	0.000370	0.003703
25-May-2022	0.261542	4.554240	4.664370	2.461750	21.509424	0.006478	0.001296	0.006478	0.018139	0.000311	0.001943	0.041461	0.000019	0.004535	0.001425	0.000324	0.003239
26-May-2022	0.281480	4.262710	4.365790	2.304170	20.132559	0.006064	0.001213	0.006064	0.016978	0.000291	0.001819	0.038807	0.000018	0.004245	0.001334	0.000303	0.003032
27-May-2022	0.294931	4.044790	4.142600	2.186370	19.103312	0.005754	0.001151	0.005754	0.016110	0.000276	0.001726	0.036823	0.000017	0.004028	0.001266	0.000288	0.002877

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-May-2022	0.306983	4.056040	4.154120	2.192450	19.156441	0.005770	0.001154	0.005770	0.016155	0.000277	0.001731	0.036926	0.000017	0.004039	0.001269	0.000288	0.002885
29-May-2022	0.312242	4.598140	4.709330	2.485480	21.716762	0.006541	0.001308	0.006541	0.018314	0.000314	0.001962	0.041861	0.000020	0.004579	0.001439	0.000327	0.003270
30-May-2022	0.319417	4.480900	4.589250	2.422110	21.163056	0.006374	0.001275	0.006374	0.017847	0.000306	0.001912	0.040793	0.000019	0.004462	0.001402	0.000319	0.003187
31-May-2022	0.326502	4.430630	4.537780	2.394940	20.925646	0.006302	0.001260	0.006302	0.017647	0.000303	0.001891	0.040336	0.000019	0.004412	0.001387	0.000315	0.003151
1-Jun-2022	0.332062	4.407230	4.513800	2.382290	20.815124	0.006269	0.001254	0.006269	0.017554	0.000301	0.001881	0.040123	0.000019	0.004388	0.001379	0.000313	0.003135
2-Jun-2022	0.364749	4.209810	4.311610	2.275570	19.882693	0.005988	0.001198	0.005988	0.016767	0.000287	0.001797	0.038325	0.000018	0.004192	0.001317	0.000299	0.002994
3-Jun-2022	0.375124	4.219070	4.321100	2.280580	19.926446	0.006002	0.001200	0.006002	0.016804	0.000288	0.001800	0.038410	0.000018	0.004201	0.001320	0.000300	0.003001
4-Jun-2022	0.389531	4.178920	4.279970	2.258880	19.736831	0.005944	0.001189	0.005944	0.016644	0.000285	0.001783	0.038044	0.000018	0.004161	0.001308	0.000297	0.002972
5-Jun-2022	0.403311	4.062740	4.160990	2.196080	19.188119	0.005779	0.001156	0.005779	0.016182	0.000277	0.001734	0.036987	0.000017	0.004045	0.001271	0.000289	0.002890
6-Jun-2022	0.416009	3.867960	3.961500	2.090780	18.268128	0.005511	0.001101	0.005508	0.015407	0.000264	0.001651	0.035214	0.000017	0.003852	0.001210	0.000275	0.002751
7-Jun-2022	0.410528	3.877930	3.970630	2.093890	18.305830	0.007842	0.001221	0.006959	0.015615	0.000265	0.001656	0.035578	0.000017	0.003876	0.001216	0.000278	0.002779
8-Jun-2022	0.396860	3.959630	4.049340	2.127650	18.648859	0.017916	0.001730	0.013221	0.016690	0.000273	0.001696	0.037579	0.000018	0.004025	0.001255	0.000294	0.002935
9-Jun-2022	0.449494	3.963690	4.044010	2.109650	18.584873	0.037207	0.002720	0.025227	0.018154	0.000279	0.001707	0.039979	0.000020	0.004158	0.001281	0.000313	0.003125
10-Jun-2022	0.536884	3.870540	3.941580	2.044260	18.083001	0.051532	0.003425	0.034038	0.018845	0.000277	0.001675	0.040860	0.000021	0.004160	0.001271	0.000320	0.003196
11-Jun-2022	0.680997	3.747270	3.804570	1.954590	17.405935	0.072704	0.004472	0.046986	0.019949	0.000275	0.001633	0.042343	0.000023	0.004182	0.001260	0.000331	0.003315
12-Jun-2022	0.867142	3.645580	3.693520	1.884910	16.865073	0.084157	0.005027	0.053870	0.020495	0.000272	0.001596	0.043034	0.000024	0.004171	0.001246	0.000337	0.003368
13-Jun-2022	1.048570	3.621880	3.664080	1.861230	16.708380	0.090838	0.005353	0.057796	0.021049	0.000271	0.001591	0.043992	0.000025	0.004212	0.001252	0.000344	0.003441
14-Jun-2022	1.235670	3.602560	3.638390	1.840630	16.575307	0.103131	0.005973	0.065174	0.021869	0.000274	0.001589	0.045256	0.000026	0.004273	0.001261	0.000354	0.003541
15-Jun-2022	1.431050	3.566590	3.597640	1.814900	16.379533	0.111519	0.006392	0.070094	0.022326	0.000274	0.001577	0.045880	0.000027	0.004289	0.001260	0.000359	0.003591
16-Jun-2022	1.617827	3.525260	3.552780	1.785270	16.154316	0.118178	0.006723	0.073991	0.022585	0.000274	0.001562	0.046136	0.000027	0.004283	0.001254	0.000361	0.003612
17-Jun-2022	1.801153	3.479350	3.503450	1.754970	15.914903	0.122409	0.006928	0.076248	0.022707	0.000273	0.001544	0.046229	0.000027	0.004264	0.001245	0.000362	0.003617
18-Jun-2022	1.991240	3.439440	3.458170	1.726510	15.698050	0.129581	0.007280	0.080149	0.023085	0.000274	0.001531	0.046815	0.000028	0.004274	0.001242	0.000366	0.003657
19-Jun-2022	2.204203	3.406990	3.420640	1.700360	15.509337	0.135461	0.007568	0.083246	0.023412	0.000276	0.001520	0.047394	0.000029	0.004286	0.001241	0.000369	0.003693
20-Jun-2022	2.421047	3.374960	3.385040	1.680610	15.348027	0.131437	0.007342	0.079631	0.023174	0.000276	0.001506	0.047327	0.000029	0.004259	0.001232	0.000366	0.003663
21-Jun-2022	3.010717	3.316400	3.319500	1.641000	15.038689	0.135925	0.007548	0.081640	0.023343	0.000278	0.001484	0.047774	0.000029	0.004247	0.001223	0.000368	0.003676
22-Jun-2022	3.318140	3.281190	3.277490	1.613070	14.835754	0.142886	0.007887	0.085385	0.023717	0.000282	0.001472	0.048573	0.000030	0.004266	0.001223	0.000372	0.003718
23-Jun-2022	3.553833	3.248800	3.241360	1.592360	14.669592	0.145117	0.007989	0.086395	0.023732	0.000284	0.001459	0.048737	0.000030	0.004253	0.001217	0.000371	0.003714
24-Jun-2022	3.773603	3.211600	3.201720	1.571250	14.489773	0.146076	0.008027	0.086800	0.023609	0.000284	0.001443	0.048592	0.000030	0.004222	0.001207	0.000369	0.003690
25-Jun-2022	4.053360	3.172270	3.160140	1.547210	14.292569	0.152967	0.008369	0.091751	0.023712	0.000284	0.001428	0.048600	0.000030	0.004202	0.001198	0.000369	0.003692
26-Jun-2022	4.306623	3.139800	3.126980	1.528870	14.135967	0.155205	0.008479	0.093692	0.023712	0.000282	0.001414	0.048401	0.000030	0.004177	0.001189	0.000368	0.003683
27-Jun-2022	4.656777	3.111360	3.098580	1.513740	14.002647	0.172999	0.009355	0.105011	0.023852	0.000279	0.001402	0.048104	0.000030	0.004149	0.001180	0.000368	0.003677
28-Jun-2022	5.040393	3.078910	3.064240	1.491660	13.830694	0.192812	0.010353	0.116529	0.024711	0.000280	0.001391	0.049133	0.000031	0.004161	0.001176	0.000376	0.003762
29-Jun-2022	5.266823	3.114880	3.091780	1.494170	13.930847	0.207492	0.011081	0.123136	0.025642	0.000306	0.001414	0.051259	0.000032	0.004297	0.001209	0.000388	0.003884
30-Jun-2022	5.407867	3.116360	3.085400	1.486500	13.902958	0.216358	0.011509	0.126383	0.025987	0.000325	0.001417	0.052369	0.000032	0.004352	0.001220	0.000394	0.003943
1-Jul-2022	8.045047	2.945190	2.891770	1.373480	13.010130	0.228280	0.012147	0.134711	0.026806	0.000330	0.001348	0.054043	0.000033	0.004320	0.001194	0.000399	0.003991
2-Jul-2022	8.134763	3.016120	2.997060	1.416780	13.365552	0.210849	0.010977	0.119116	0.025463	0.000341	0.001360	0.052712	0.000034	0.004272	0.001207	0.000389	0.003889
3-Jul-2022	8.135947	3.117150	3.164700	1.436460	13.698866	0.221210	0.010861	0.116386	0.025231	0.000376	0.001362	0.053113	0.000039	0.004333	0.001260	0.000398	0.003977
4-Jul-2022	8.595220	3.143210	3.213620	1.438840	13.773738	0.225044	0.010805	0.115304	0.025002	0.000393	0.001359	0.053360	0.000041	0.004344	0.001277	0.000399	0.003993
5-Jul-2022	9.230510	3.156800	3.239950	1.439420	13.810061	0.227410	0.010788	0.114922	0.024867	0.000404	0.001357	0.053554	0.000042	0.004349	0.001286	0.000400	0.004002
6-Jul-2022	10.104673	3.195890	3.310950	1.444250	13.927559	0.235463	0.010875	0.115646	0.024798	0.000422	0.001356	0.053907	0.000044	0.004379	0.001311	0.000406	0.004056
7-Jul-2022	10.778600	3.226060	3.371430	1.445930	14.009812	0.242654	0.010947	0.116319	0.024761	0.000437	0.001354	0.054094	0.000047	0.004397	0.001331	0.000410	0.004102
8-Jul-2022	11.556167	3.289030	3.492530	1.452250	14.193073	0.256097	0.011088	0.117737	0.024745	0.000462	0.001350	0.054342	0.000051	0.004441	0.001372	0.000420	0.004199
9-Jul-2022	11.613033	3.281570	3.485850	1.448830	14.160362	0.256282	0.011075	0.117597	0.024666	0.000463	0.001347	0.054289	0.000051	0.004430	0.001369	0.000419	0.004190
10-Jul-2022	12.310833	3.351800	3.613230	1.459240	14.378595	0.269277	0.011224	0.119117	0.024742	0.000485	0.001348	0.054587	0.000055	0.004482	0.001412	0.000430	0.004297
11-Jul-2022	13.330400	3.416180	3.734060	1.468260	14.576496	0.282159	0.011361	0.120521	0.024804	0.000508	0.001349	0.054868	0.000060	0.004527	0.001452	0.000440	0.004397
12-Jul-2022	13.967500	3.480610	3.852110	1.478380	14.779052	0.295521	0.011553	0.122673	0.024831	0.000530	0.001349	0.055262	0.000064	0.004570	0.001490	0.000450	0.004503
13-Jul-2022	14.418600	3.471660	3.859840	1.468000	14.713959	0.297507	0.011502	0.122133	0.024612	0.000533	0.001337	0.054867	0.000065	0.004544	0.001491	0.000450	0.004499
14-Jul-2022	15.123467	3.567810	4.038550	1.484130	15.020469	0.316356	0.011712	0.124298	0.024762	0.000565	0.001341	0.055317	0.000071	0.004618	0.001550	0.000465	0.004646
15-Jul-2022	15.940267	3.635740	4.155800	1.494510	15.232835	0.328227	0.011862	0.125865	0.024838	0.000585	0.001342	0.055614	0.000075	0.004668	0.001589	0.000475	0.004751
16-Jul-2022	16.407100	3.703720	4.280810	1.504670	15.444420	0.341511	0.012018	0.127490	0.024906	0.000608	0.001343	0.055919	0.000079	0.004717	0.001631	0.000486	0.004857
17-Jul-2022	16.523100	3.679500	4.261380	1.491520	15.329791	0.340773	0.011936	0.126620	0.024667	0.000607	0.001330	0.055453	0.000079	0.004679	0.001622	0.000483	0.004829

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Jul-2022	17.724367	3.736880	4.354540	1.504730	15.527468	0.350222	0.012090	0.128231	0.024824	0.000623	0.001337	0.055921	0.000082	0.004730	0.001654	0.000491	0.004915
19-Jul-2022	18.044500	3.768290	4.411060	1.509970	15.627477	0.356358	0.012173	0.129113	0.024864	0.000633	0.001339	0.056108	0.000084	0.004753	0.001673	0.000496	0.004964
20-Jul-2022	18.612700	3.854940	4.576700	1.520940	15.889016	0.374954	0.012400	0.131549	0.024907	0.000664	0.001337	0.056470	0.000090	0.004810	0.001727	0.000511	0.005106
21-Jul-2022	18.077300	3.933180	4.727140	1.530910	16.125438	0.391557	0.012585	0.133497	0.024953	0.000692	0.001336	0.056765	0.000095	0.004862	0.001776	0.000523	0.005232
22-Jul-2022	17.601333	3.946880	4.755710	1.530890	16.159564	0.395421	0.012645	0.134152	0.024915	0.000699	0.001334	0.056845	0.000096	0.004868	0.001785	0.000526	0.005258
23-Jul-2022	16.528700	3.963740	4.788460	1.532710	16.209159	0.399600	0.012705	0.134793	0.024912	0.000706	0.001333	0.056957	0.000098	0.004878	0.001796	0.000529	0.005286
24-Jul-2022	15.850033	3.976600	4.820810	1.531230	16.235175	0.403980	0.012754	0.135342	0.024846	0.000714	0.001329	0.056966	0.000099	0.004881	0.001806	0.000531	0.005312
25-Jul-2022	15.384500	3.977010	4.845590	1.522010	16.198231	0.408417	0.012755	0.135373	0.024646	0.000721	0.001317	0.056676	0.000100	0.004862	0.001813	0.000532	0.005323
26-Jul-2022	15.138667	3.948880	4.831830	1.503390	16.051313	0.409181	0.012662	0.134408	0.024301	0.000722	0.001297	0.056017	0.000101	0.004811	0.001805	0.000529	0.005295
27-Jul-2022	15.968200	3.982440	4.893920	1.508170	16.154797	0.416378	0.012766	0.135531	0.024330	0.000735	0.001297	0.056230	0.000103	0.004836	0.001826	0.000535	0.005349
28-Jul-2022	15.979100	4.039970	4.997450	1.517540	16.337035	0.427955	0.012933	0.137323	0.024406	0.000754	0.001299	0.056601	0.000107	0.004879	0.001860	0.000544	0.005440
29-Jul-2022	16.124933	4.091820	5.093450	1.524970	16.497101	0.438707	0.013075	0.138845	0.024455	0.000773	0.001300	0.056880	0.000110	0.004916	0.001892	0.000552	0.005523
30-Jul-2022	17.017033	4.168100	5.218910	1.542550	16.759967	0.451737	0.013286	0.141080	0.024675	0.000795	0.001309	0.057503	0.000114	0.004985	0.001935	0.000564	0.005637
31-Jul-2022	15.536000	4.267950	5.408000	1.555390	17.062167	0.472582	0.013538	0.143804	0.024719	0.000830	0.001308	0.057900	0.000121	0.005049	0.001997	0.000580	0.005800
1-Aug-2022	14.768500	4.244880	5.409600	1.535560	16.922901	0.474893	0.013432	0.142682	0.024336	0.000833	0.001286	0.057130	0.000122	0.004997	0.001994	0.000578	0.005781
2-Aug-2022	14.603433	4.323790	5.537120	1.553850	17.195258	0.488126	0.013661	0.145113	0.024558	0.000856	0.001296	0.057807	0.000126	0.005068	0.002037	0.000590	0.005899
3-Aug-2022	14.558533	4.372170	5.625000	1.561610	17.348018	0.497637	0.013785	0.146425	0.024615	0.000872	0.001297	0.058079	0.000129	0.005103	0.002066	0.000598	0.005976
4-Aug-2022	14.588067	4.480880	5.809520	1.583810	17.710887	0.516731	0.014065	0.149375	0.024854	0.000905	0.001307	0.058854	0.000135	0.005193	0.002129	0.000614	0.006142
5-Aug-2022	14.204700	4.508370	5.871660	1.583880	17.779818	0.523630	0.014103	0.149761	0.024783	0.000917	0.001302	0.058814	0.000137	0.005203	0.002148	0.000619	0.006191
6-Aug-2022	14.557767	4.588810	6.000740	1.603350	18.060854	0.536553	0.014318	0.152034	0.025010	0.000939	0.001313	0.059539	0.000141	0.005274	0.002192	0.000631	0.006312
7-Aug-2022	13.042000	4.597270	6.040840	1.595950	18.051505	0.541524	0.014288	0.151687	0.024802	0.000948	0.001301	0.059243	0.000144	0.005258	0.002202	0.000634	0.006337
8-Aug-2022	12.549000	4.655500	6.135910	1.609680	18.253446	0.551020	0.014437	0.153274	0.024941	0.000965	0.001309	0.059786	0.000147	0.005308	0.002234	0.000643	0.006427
9-Aug-2022	11.448100	4.732660	6.260370	1.628490	18.523574	0.563186	0.014628	0.155301	0.025142	0.000988	0.001319	0.060504	0.000150	0.005375	0.002276	0.000654	0.006545
10-Aug-2022	11.104467	4.792740	6.357850	1.642910	18.732975	0.572805	0.014778	0.156900	0.025290	0.001005	0.001327	0.061073	0.000154	0.005426	0.002309	0.000664	0.006637
11-Aug-2022	10.856133	4.798460	6.382540	1.638790	18.730292	0.575923	0.014766	0.156773	0.025161	0.001012	0.001321	0.060959	0.000155	0.005417	0.002316	0.000665	0.006654
12-Aug-2022	10.445833	4.822370	6.434320	1.639820	18.794237	0.581609	0.014802	0.157170	0.025106	0.001023	0.001317	0.061033	0.000157	0.005426	0.002332	0.000670	0.006696
13-Aug-2022	10.324433	4.849810	6.495780	1.640270	18.864607	0.588300	0.014835	0.157515	0.025028	0.001035	0.001312	0.061066	0.000159	0.005435	0.002351	0.000675	0.006746
14-Aug-2022	10.009073	4.868860	6.549000	1.636830	18.898009	0.594266	0.014831	0.157458	0.024883	0.001047	0.001304	0.060938	0.000162	0.005432	0.002366	0.000678	0.006785
15-Aug-2022	9.165703	4.867680	6.572490	1.627500	18.856642	0.597376	0.014768	0.156779	0.024657	0.001053	0.001291	0.060588	0.000163	0.005409	0.002372	0.000679	0.006794
16-Aug-2022	8.534323	4.923440	6.669830	1.638290	19.040308	0.607102	0.014886	0.158020	0.024745	0.001071	0.001295	0.060988	0.000167	0.005451	0.002404	0.000688	0.006882
17-Aug-2022	9.870153	5.036930	6.853310	1.665460	19.435578	0.624937	0.015159	0.160887	0.025052	0.001103	0.001310	0.061987	0.000172	0.005550	0.002466	0.000705	0.007053
18-Aug-2022	9.997747	5.120870	6.984010	1.687950	19.737790	0.637201	0.015362	0.163028	0.025308	0.001126	0.001325	0.062840	0.000176	0.005626	0.002510	0.000718	0.007180
19-Aug-2022	11.296933	5.198700	7.122620	1.702410	19.991678	0.650598	0.015498	0.164407	0.025411	0.001151	0.001329	0.063332	0.000181	0.005682	0.002555	0.000730	0.007304
20-Aug-2022	10.956533	5.269280	7.255030	1.712470	20.209344	0.663861	0.015613	0.165561	0.025456	0.001175	0.001329	0.063633	0.000186	0.005729	0.002598	0.000742	0.007417
21-Aug-2022	9.702530	5.256200	7.264980	1.698110	20.117548	0.665545	0.015493	0.164242	0.025153	0.001178	0.001312	0.063049	0.000187	0.005690	0.002598	0.000741	0.007409
22-Aug-2022	9.332347	5.277370	7.316440	1.697060	20.166086	0.670796	0.015488	0.164152	0.025062	0.001189	0.001306	0.062974	0.000189	0.005694	0.002614	0.000745	0.007448
23-Aug-2022	8.575210	5.287120	7.345250	1.694990	20.181907	0.673664	0.015465	0.163876	0.024966	0.001194	0.001301	0.062884	0.000190	0.005690	0.002622	0.000747	0.007469
24-Aug-2022	7.612697	5.284020	7.357350	1.688490	20.147400	0.674947	0.015397	0.163124	0.024798	0.001198	0.001293	0.062623	0.000191	0.005671	0.002624	0.000747	0.007472
25-Aug-2022	6.774027	5.282930	7.371930	1.682730	20.120958	0.676450	0.015336	0.162443	0.024643	0.001201	0.001285	0.062391	0.000192	0.005654	0.002626	0.000748	0.007478
26-Aug-2022	6.397267	5.298000	7.409330	1.681990	20.155541	0.680065	0.015322	0.162252	0.024562	0.001208	0.001281	0.062341	0.000194	0.005655	0.002637	0.000751	0.007507
27-Aug-2022	6.397410	5.352130	7.501930	1.693400	20.337690	0.688809	0.015421	0.163261	0.024659	0.001225	0.001286	0.062735	0.000197	0.005697	0.002668	0.000759	0.007591
28-Aug-2022	6.792073	5.438890	7.638160	1.716040	20.647561	0.701405	0.015616	0.165289	0.024917	0.001248	0.001300	0.063554	0.000201	0.005774	0.002714	0.000772	0.007721
29-Aug-2022	6.762323	5.492920	7.727210	1.728650	20.834402	0.709715	0.015724	0.166399	0.025041	0.001263	0.001306	0.063995	0.000204	0.005819	0.002744	0.000780	0.007804
30-Aug-2022	6.418320	5.575440	7.860980	1.748610	21.122650	0.722244	0.015899	0.168215	0.025255	0.001286	0.001317	0.064695	0.000208	0.005890	0.002788	0.000793	0.007929
31-Aug-2022	6.562380	5.654170	7.985910	1.768760	21.402216	0.733845	0.016074	0.170032	0.025483	0.001307	0.001329	0.065416	0.000212	0.005959	0.002830	0.000805	0.008047
1-Sep-2022	7.149023	5.731590	8.114970	1.787150	21.671264	0.745474	0.016209	0.171401	0.025645	0.001329	0.001339	0.066058	0.000216	0.006020	0.002872	0.000817	0.008170
2-Sep-2022	6.531667	5.827700	8.283450	1.806920	21.992663	0.761634	0.016390	0.173243	0.025835	0.001358	0.001347	0.066668	0.000221	0.006096	0.002928	0.000832	0.008318
3-Sep-2022	6.287070	5.859950	8.332630	1.814630	22.104941	0.765968	0.016448	0.173829	0.025902	0.001366	0.001351	0.066944	0.000223	0.006122	0.002945	0.000837	0.008366
4-Sep-2022	5.397683	5.902760	8.404620	1.824110	22.250877	0.772680	0.016527	0.174631	0.025989	0.001379	0.001356	0.067268	0.000225	0.006156	0.002968	0.000843	0.008432
5-Sep-2022	4.563503	5.906020	8.421170	1.820730	22.245098	0.774516	0.016501	0.174322	0.025898	0.001382	0.001351	0.067101	0.000226	0.006150	0.002973	0.000844	0.008440
6-Sep-2022	4.682470	5.963240	8.520870	1.831710	22.433192	0.784209	0.016610	0.175420	0.025995	0.001400	0.001355	0.067453	0.000229	0.006194	0.003006	0.000853	0.008528

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Sep-2022	5.114423	5.990040	8.570370	1.836640	22.520413	0.789033	0.016656	0.175890	0.026030	0.001409	0.001356	0.067618	0.000231	0.006214	0.003022	0.000857	0.008570
8-Sep-2022	4.383040	6.027510	8.645080	1.839540	22.625918	0.796667	0.016701	0.176303	0.025999	0.001422	0.001353	0.067658	0.000234	0.006234	0.003046	0.000863	0.008630
9-Sep-2022	3.140907	6.057380	8.699790	1.844230	22.719817	0.802117	0.016753	0.176823	0.026029	0.001432	0.001354	0.067794	0.000236	0.006256	0.003064	0.000868	0.008677
10-Sep-2022	2.474667	6.071610	8.745500	1.839080	22.734142	0.807207	0.016727	0.176494	0.025887	0.001441	0.001344	0.067503	0.000238	0.006250	0.003078	0.000870	0.008705
11-Sep-2022	3.279537	6.097910	8.793270	1.843380	22.817520	0.811950	0.016774	0.176967	0.025919	0.001450	0.001345	0.067623	0.000239	0.006269	0.003093	0.000875	0.008745
12-Sep-2022	3.677183	6.166060	8.911190	1.857760	23.046908	0.823444	0.016916	0.178434	0.026065	0.001470	0.001351	0.068088	0.000243	0.006324	0.003133	0.000885	0.008850
13-Sep-2022	2.758173	6.165590	8.928530	1.850140	23.014355	0.825633	0.016862	0.177807	0.025897	0.001474	0.001341	0.067718	0.000244	0.006308	0.003137	0.000885	0.008855
14-Sep-2022	1.903863	6.154660	8.928270	1.841040	22.949589	0.826140	0.016792	0.177030	0.025726	0.001474	0.001330	0.067319	0.000245	0.006284	0.003135	0.000884	0.008843
15-Sep-2022	2.136753	6.203660	9.015010	1.849850	23.108221	0.834688	0.016885	0.177971	0.025804	0.001490	0.001333	0.067574	0.000247	0.006322	0.003164	0.000892	0.008918
16-Sep-2022	1.073248	6.201070	9.030050	1.842060	23.069675	0.836706	0.016829	0.177336	0.025642	0.001493	0.001323	0.067201	0.000248	0.006304	0.003167	0.000892	0.008920
17-Sep-2022	0.400272	6.254290	9.125160	1.851290	23.240574	0.846111	0.016928	0.178339	0.025722	0.001509	0.001325	0.067452	0.000252	0.006344	0.003199	0.000900	0.009001
18-Sep-2022	0.277314	6.295800	9.206780	1.855690	23.362344	0.854398	0.016987	0.178909	0.025727	0.001524	0.001323	0.067507	0.000255	0.006370	0.003225	0.000907	0.009067
19-Sep-2022	0.434878	6.426470	9.431680	1.881560	23.795160	0.876411	0.017254	0.181633	0.025994	0.001562	0.001333	0.068275	0.000262	0.006476	0.003300	0.000926	0.009265
20-Sep-2022	0.319280	6.454260	9.484490	1.885440	23.880529	0.881694	0.017298	0.182079	0.026010	0.001571	0.001333	0.068355	0.000264	0.006494	0.003317	0.000931	0.009309
21-Sep-2022	0.278352	6.475770	9.524580	1.888650	23.947458	0.885649	0.017332	0.182412	0.026024	0.001578	0.001333	0.068432	0.000265	0.006508	0.003330	0.000934	0.009343
22-Sep-2022	0.553112	6.504090	9.575280	1.893620	24.038640	0.890629	0.017383	0.182928	0.026062	0.001587	0.001335	0.068571	0.000267	0.006529	0.003347	0.000939	0.009386
23-Sep-2022	0.753726	6.566720	9.683500	1.906030	24.246131	0.901185	0.017508	0.184202	0.026179	0.001606	0.001340	0.068952	0.000270	0.006579	0.003383	0.000948	0.009482
24-Sep-2022	0.953369	6.625360	9.784480	1.917680	24.440530	0.911063	0.017627	0.185415	0.026293	0.001623	0.001344	0.069315	0.000274	0.006626	0.003417	0.000957	0.009570
25-Sep-2022	0.935475	6.618380	9.777940	1.914280	24.409100	0.910574	0.017598	0.185108	0.026234	0.001622	0.001341	0.069175	0.000273	0.006616	0.003414	0.000956	0.009561
26-Sep-2022	0.547946	6.611640	9.795480	1.902020	24.341783	0.913148	0.017511	0.184125	0.025991	0.001626	0.001325	0.068583	0.000275	0.006587	0.003418	0.000956	0.009559
27-Sep-2022	0.094522	6.618740	9.823370	1.897530	24.341022	0.916350	0.017487	0.183827	0.025884	0.001631	0.001318	0.068323	0.000276	0.006581	0.003426	0.000957	0.009574
28-Sep-2022	0.411397	6.723270	9.999950	1.919520	24.692589	0.933546	0.017709	0.186110	0.026122	0.001661	0.001328	0.069004	0.000282	0.006668	0.003485	0.000973	0.009732
29-Sep-2022	0.072233	6.724750	10.016800	1.914560	24.675859	0.935582	0.017675	0.185715	0.026009	0.001665	0.001321	0.068750	0.000283	0.006658	0.003489	0.000974	0.009738
30-Sep-2022	0.049230	6.674030	9.956220	1.895070	24.468951	0.930448	0.017507	0.183917	0.025704	0.001655	0.001304	0.067977	0.000281	0.006597	0.003467	0.000967	0.009668
1-Oct-2022	0.059086	6.747490	10.079200	1.910550	24.716127	0.942344	0.017663	0.185512	0.025867	0.001676	0.001311	0.068460	0.000285	0.006657	0.003508	0.000978	0.009779
2-Oct-2022	0.142028	6.753750	10.097200	1.909150	24.725993	0.944322	0.017658	0.185438	0.025821	0.001680	0.001308	0.068362	0.000286	0.006656	0.003513	0.000979	0.009791
3-Oct-2022	0.033260	6.700140	10.026800	1.890430	24.515040	0.938049	0.017492	0.183681	0.025538	0.001668	0.001292	0.067639	0.000284	0.006595	0.003488	0.000972	0.009716
4-Oct-2022	0.024048	6.616990	9.908170	1.864880	24.202200	0.927127	0.017260	0.181230	0.025174	0.001649	0.001273	0.066695	0.000281	0.006509	0.003446	0.000960	0.009597
5-Oct-2022	0.036950	6.588770	9.870480	1.855300	24.092284	0.923729	0.017175	0.180318	0.025028	0.001643	0.001266	0.066326	0.000280	0.006477	0.003432	0.000956	0.009557
6-Oct-2022	0.356604	6.565520	9.837650	1.848070	24.004456	0.920691	0.017108	0.179610	0.024923	0.001637	0.001260	0.066052	0.000279	0.006453	0.003421	0.000952	0.009524
7-Oct-2022	0.375958	6.548870	9.814000	1.842960	23.941838	0.918498	0.017060	0.179110	0.024849	0.001633	0.001256	0.065859	0.000279	0.006435	0.003412	0.000950	0.009500
8-Oct-2022	0.262198	6.513040	9.762540	1.832140	23.807813	0.913725	0.016960	0.178056	0.024693	0.001625	0.001248	0.065457	0.000277	0.006398	0.003394	0.000945	0.009449
9-Oct-2022	0.027234	6.510480	9.760830	1.830730	23.795615	0.913600	0.016947	0.177911	0.024665	0.001624	0.001247	0.065391	0.000277	0.006393	0.003393	0.000945	0.009446
10-Oct-2022	0.055564	6.485140	9.723560	1.823370	23.702032	0.910129	0.016879	0.177197	0.024562	0.001618	0.001242	0.065125	0.000276	0.006368	0.003380	0.000941	0.009409
11-Oct-2022	0.054089	6.419940	9.626110	1.804990	23.463539	0.900993	0.016707	0.175398	0.024311	0.001602	0.001229	0.064464	0.000274	0.006303	0.003346	0.000931	0.009315
12-Oct-2022	0.303403	6.387270	9.577300	1.795790	23.344076	0.896413	0.016621	0.174495	0.024185	0.001594	0.001223	0.064133	0.000272	0.006271	0.003329	0.000927	0.009267
13-Oct-2022	0.119691	6.429730	9.641850	1.807450	23.498115	0.902468	0.016729	0.175624	0.024337	0.001605	0.001230	0.064545	0.000274	0.006312	0.003351	0.000933	0.009329
14-Oct-2022	0.069848	6.412530	9.616420	1.802510	23.434824	0.900096	0.016683	0.175142	0.024268	0.001601	0.001227	0.064368	0.000273	0.006294	0.003342	0.000930	0.009304
15-Oct-2022	0.038889	6.395120	9.590530	1.797580	23.371049	0.897670	0.016637	0.174659	0.024199	0.001596	0.001224	0.064192	0.000273	0.006277	0.003333	0.000928	0.009279
16-Oct-2022	0.033199	6.391240	9.584710	1.796490	23.356872	0.897126	0.016626	0.174553	0.024185	0.001596	0.001223	0.064153	0.000272	0.006273	0.003331	0.000927	0.009273
17-Oct-2022	0.034931	6.465430	9.695980	1.817330	23.627944	0.907544	0.016820	0.176579	0.024466	0.001614	0.001237	0.064897	0.000276	0.006346	0.003370	0.000938	0.009381
18-Oct-2022	0.036682	6.481880	9.720640	1.821960	23.688086	0.909851	0.016862	0.177028	0.024528	0.001618	0.001240	0.065062	0.000276	0.006362	0.003379	0.000940	0.009405
19-Oct-2022	0.036622	6.518950	9.776230	1.832380	23.823559	0.915054	0.016959	0.178041	0.024668	0.001627	0.001247	0.065434	0.000278	0.006399	0.003398	0.000946	0.009458
20-Oct-2022	0.036747	6.552680	9.826820	1.841860	23.946821	0.919789	0.017046	0.178962	0.024796	0.001636	0.001254	0.065773	0.000279	0.006432	0.003415	0.000951	0.009507
21-Oct-2022	0.035686	6.559250	9.836670	1.843710	23.970845	0.920710	0.017064	0.179141	0.024820	0.001637	0.001255	0.065839	0.000280	0.006438	0.003419	0.000952	0.009517
22-Oct-2022	0.035876	6.584320	9.874280	1.850760	24.062477	0.924230	0.017129	0.179826	0.024915	0.001644	0.001260	0.066091	0.000281	0.006463	0.003432	0.000955	0.009553
23-Oct-2022	0.036273	6.616230	9.922120	1.859730	24.179094	0.928708	0.017212	0.180697	0.025036	0.001652	0.001266	0.066411	0.000282	0.006494	0.003449	0.000960	0.009600
24-Oct-2022	0.037077	6.653980	9.978730	1.870340	24.317048	0.934007	0.017310	0.181728	0.025179	0.001661	0.001273	0.066790	0.000284	0.006531	0.003468	0.000965	0.009654
25-Oct-2022	0.037050	6.688100	10.029900	1.879930	24.441737	0.938796	0.017399	0.182660	0.025308	0.001670	0.001280	0.067132	0.000285	0.006565	0.003486	0.000970	0.009704
26-Oct-2022	0.037245	6.739730	10.107300	1.894440	24.630410	0.946044	0.017533	0.184070	0.025503	0.001683	0.001289	0.067650	0.000287	0.006615	0.003513	0.000978	0.009779
27-Oct-2022	0.037464	6.775190	10.160500	1.904410	24.760010	0.951021	0.017625	0.185039	0.025638	0.001691	0.001296	0.068006	0.000289	0.006650	0.003531	0.000983	0.009830

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Oct-2022	0.037019	6.807250	10.208600	1.913420	24.877167	0.955523	0.017709	0.185914	0.025759	0.001699	0.001302	0.068328	0.000290	0.006682	0.003548	0.000988	0.009877
29-Oct-2022	0.037265	6.850890	10.274000	1.925690	25.036664	0.961647	0.017822	0.187106	0.025924	0.001710	0.001311	0.068766	0.000292	0.006724	0.003571	0.000994	0.009940
30-Oct-2022	0.037218	6.887080	10.328300	1.935860	25.168910	0.966728	0.017916	0.188095	0.026061	0.001719	0.001318	0.069129	0.000294	0.006760	0.003590	0.000999	0.009993
31-Oct-2022	0.037280	6.914050	10.368800	1.943440	25.267469	0.970513	0.017987	0.188831	0.026163	0.001726	0.001323	0.069400	0.000295	0.006786	0.003604	0.001003	0.010032
1-Nov-2022	0.037090	6.947570	10.419000	1.952860	25.389960	0.975219	0.018074	0.189747	0.026290	0.001734	0.001329	0.069737	0.000296	0.006819	0.003621	0.001008	0.010080
2-Nov-2022	0.037070	6.984700	10.474700	1.963300	25.525665	0.980430	0.018170	0.190761	0.026430	0.001744	0.001336	0.070109	0.000298	0.006856	0.003641	0.001013	0.010134
3-Nov-2022	0.037058	7.018600	10.525500	1.972830	25.649558	0.985189	0.018259	0.191686	0.026559	0.001752	0.001343	0.070450	0.000299	0.006889	0.003658	0.001018	0.010183
4-Nov-2022	0.037220	7.057560	10.584000	1.983780	25.791933	0.990657	0.018360	0.192750	0.026706	0.001762	0.001350	0.070841	0.000301	0.006927	0.003679	0.001024	0.010240
5-Nov-2022	0.037295	7.090130	10.632800	1.992930	25.910940	0.995229	0.018445	0.193640	0.026829	0.001770	0.001357	0.071168	0.000302	0.006959	0.003696	0.001029	0.010287
6-Nov-2022	0.037375	7.124230	10.684000	2.002520	26.035580	1.000020	0.018533	0.194571	0.026958	0.001778	0.001363	0.071510	0.000304	0.006993	0.003713	0.001034	0.010337
7-Nov-2022	0.037437	7.164060	10.743700	2.013720	26.181157	1.005610	0.018637	0.195659	0.027109	0.001788	0.001371	0.071910	0.000305	0.007032	0.003734	0.001039	0.010395
8-Nov-2022	0.037464	7.204490	10.804300	2.025080	26.328891	1.011280	0.018742	0.196763	0.027262	0.001799	0.001378	0.072316	0.000307	0.007071	0.003755	0.001045	0.010453
9-Nov-2022	0.037520	7.243610	10.863000	2.036080	26.471872	1.016770	0.018844	0.197832	0.027410	0.001808	0.001386	0.072708	0.000309	0.007110	0.003776	0.001051	0.010510
10-Nov-2022	0.037556	7.284340	10.924100	2.047520	26.620684	1.022490	0.018950	0.198944	0.027564	0.001818	0.001394	0.073117	0.000310	0.007150	0.003797	0.001057	0.010569
11-Nov-2022	0.037600	7.323670	10.983100	2.058580	26.764436	1.028010	0.019052	0.200018	0.027713	0.001828	0.001401	0.073512	0.000312	0.007188	0.003817	0.001063	0.010626
12-Nov-2022	0.037663	7.368900	11.050900	2.071290	26.929716	1.034360	0.019170	0.201253	0.027884	0.001840	0.001410	0.073966	0.000314	0.007233	0.003841	0.001069	0.010692
13-Nov-2022	0.037742	7.415680	11.121000	2.084440	27.100677	1.040930	0.019291	0.202531	0.028061	0.001851	0.001419	0.074436	0.000316	0.007279	0.003865	0.001076	0.010760
14-Nov-2022	0.037766	7.460770	11.188700	2.097120	27.265483	1.047260	0.019409	0.203762	0.028232	0.001863	0.001427	0.074888	0.000318	0.007323	0.003889	0.001083	0.010825
15-Nov-2022	0.037739	7.513660	11.268000	2.111980	27.458743	1.054680	0.019546	0.205207	0.028432	0.001876	0.001438	0.075419	0.000320	0.007375	0.003916	0.001090	0.010902
16-Nov-2022	0.037670	7.566870	11.347800	2.126940	27.653213	1.062150	0.019685	0.206660	0.028633	0.001889	0.001448	0.075953	0.000323	0.007427	0.003944	0.001098	0.010979
17-Nov-2022	0.037664	7.617920	11.424300	2.141290	27.839778	1.069310	0.019818	0.208054	0.028826	0.001902	0.001457	0.076466	0.000325	0.007477	0.003971	0.001105	0.011053
18-Nov-2022	0.037670	7.674780	11.509600	2.157270	28.047564	1.077300	0.019965	0.209607	0.029041	0.001916	0.001468	0.077036	0.000327	0.007533	0.004000	0.001114	0.011136
19-Nov-2022	0.037668	7.735680	11.600900	2.174390	28.270131	1.085840	0.020124	0.211270	0.029272	0.001931	0.001480	0.077648	0.000330	0.007593	0.004032	0.001122	0.011224
20-Nov-2022	0.037671	7.791990	11.685400	2.190220	28.475925	1.093750	0.020270	0.212808	0.029485	0.001945	0.001491	0.078213	0.000332	0.007648	0.004061	0.001131	0.011306
21-Nov-2022	0.037647	7.783770	11.673100	2.187910	28.445887	1.092590	0.020249	0.212584	0.029454	0.001943	0.001489	0.078130	0.000332	0.007640	0.004057	0.001129	0.011294
22-Nov-2022	0.037643	7.827400	11.738500	2.200170	28.605318	1.098720	0.020362	0.213775	0.029619	0.001954	0.001498	0.078568	0.000334	0.007683	0.004080	0.001136	0.011357
23-Nov-2022	0.037646	7.880470	11.818100	2.215090	28.799274	1.106170	0.020501	0.215225	0.029820	0.001967	0.001508	0.079101	0.000336	0.007735	0.004108	0.001143	0.011434
24-Nov-2022	0.037645	7.914520	11.869100	2.224660	28.923706	1.110950	0.020589	0.216155	0.029948	0.001976	0.001514	0.079443	0.000337	0.007768	0.004125	0.001148	0.011483
25-Nov-2022	0.037642	7.883110	11.822000	2.215830	28.808914	1.106540	0.020507	0.215297	0.029830	0.001968	0.001508	0.079128	0.000336	0.007738	0.004109	0.001144	0.011438
26-Nov-2022	0.037643	7.923510	11.882600	2.227190	28.956573	1.112210	0.020613	0.216400	0.029982	0.001978	0.001516	0.079533	0.000338	0.007777	0.004130	0.001150	0.011496
27-Nov-2022	0.037644	7.964670	11.944400	2.238760	29.106995	1.117990	0.020720	0.217524	0.030138	0.001988	0.001524	0.079946	0.000339	0.007818	0.004151	0.001156	0.011556
28-Nov-2022	0.037646	8.009480	12.011600	2.251350	29.270731	1.124280	0.020836	0.218748	0.030308	0.001999	0.001532	0.080396	0.000341	0.007862	0.004175	0.001162	0.011621
29-Nov-2022	0.037650	8.059440	12.086500	2.265390	29.453298	1.131290	0.020966	0.220112	0.030497	0.002012	0.001542	0.080897	0.000344	0.007911	0.004201	0.001169	0.011694
30-Nov-2022	0.037654	8.104730	12.154400	2.278130	29.618850	1.137650	0.021084	0.221350	0.030668	0.002023	0.001551	0.081352	0.000345	0.007955	0.004224	0.001176	0.011759
1-Dec-2022	0.037661	8.154000	12.228300	2.291980	29.798912	1.144560	0.021212	0.222695	0.030855	0.002036	0.001560	0.081847	0.000348	0.008003	0.004250	0.001183	0.011831
2-Dec-2022	0.037651	8.185970	12.276200	2.300960	29.915720	1.149050	0.021295	0.223568	0.030976	0.002044	0.001566	0.082168	0.000349	0.008035	0.004267	0.001188	0.011877
3-Dec-2022	0.037657	8.238590	12.355100	2.315750	30.108018	1.156440	0.021432	0.225005	0.031175	0.002057	0.001576	0.082696	0.000351	0.008086	0.004294	0.001195	0.011954
4-Dec-2022	0.037651	8.277390	12.413300	2.326660	30.249829	1.161880	0.021533	0.226065	0.031322	0.002066	0.001584	0.083085	0.000353	0.008125	0.004314	0.001201	0.012010
5-Dec-2022	0.037648	8.314600	12.469100	2.337120	30.385816	1.167110	0.021630	0.227081	0.031462	0.002076	0.001591	0.083459	0.000354	0.008161	0.004334	0.001206	0.012064
6-Dec-2022	0.037646	8.342970	12.511700	2.345090	30.489477	1.171090	0.021704	0.227856	0.031570	0.002083	0.001596	0.083743	0.000356	0.008189	0.004349	0.001211	0.012105
7-Dec-2022	0.037646	8.383420	12.572300	2.356460	30.637302	1.176770	0.021809	0.228961	0.031723	0.002093	0.001604	0.084149	0.000357	0.008229	0.004370	0.001216	0.012164
8-Dec-2022	0.037645	8.426440	12.636900	2.368550	30.794510	1.182810	0.021921	0.230136	0.031886	0.002104	0.001612	0.084581	0.000359	0.008271	0.004392	0.001223	0.012226
9-Dec-2022	0.037645	8.471540	12.704500	2.381230	30.959341	1.189140	0.022038	0.231368	0.032056	0.002115	0.001621	0.085034	0.000361	0.008315	0.004416	0.001229	0.012292
10-Dec-2022	0.037645	8.515260	12.770100	2.393520	31.119120	1.195270	0.022152	0.232561	0.032222	0.002126	0.001629	0.085473	0.000363	0.008358	0.004438	0.001235	0.012355
11-Dec-2022	0.037644	8.560730	12.838200	2.406300	31.285286	1.201660	0.022270	0.233803	0.032394	0.002137	0.001638	0.085929	0.000365	0.008403	0.004462	0.001242	0.012421
12-Dec-2022	0.037644	8.607160	12.907900	2.419350	31.454962	1.208170	0.022391	0.235071	0.032569	0.002149	0.001647	0.086395	0.000367	0.008448	0.004486	0.001249	0.012488
13-Dec-2022	0.037644	8.654740	12.979200	2.432730	31.628868	1.214850	0.022515	0.236371	0.032749	0.002161	0.001656	0.086873	0.000369	0.008495	0.004511	0.001256	0.012557
14-Dec-2022	0.037644	8.704750	13.054200	2.446780	31.811601	1.221870	0.022645	0.237737	0.032939	0.002173	0.001665	0.087375	0.000371	0.008544	0.004537	0.001263	0.012630
15-Dec-2022	0.037644	8.754340	13.128600	2.460720	31.992832	1.228830	0.022774	0.239091	0.033126	0.002185	0.001675	0.087873	0.000373	0.008593	0.004563	0.001270	0.012702
16-Dec-2022	0.037644	8.808770	13.210200	2.476020	32.191749	1.236470	0.022915	0.240578	0.033332	0.002199	0.001685	0.088419	0.000375	0.008646	0.004591	0.001278	0.012781
17-Dec-2022	0.037644	8.846150	13.266300	2.486530	32.328367	1.241720	0.023013	0.241598	0.033474	0.002208	0.001692	0.088794	0.000377	0.008683	0.004611	0.001284	0.012835

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Dec-2022	0.037644	8.879580	13.316400	2.495930	32.450551	1.246410	0.023100	0.242512	0.033600	0.002217	0.001699	0.089130	0.000378	0.008716	0.004628	0.001288	0.012884
19-Dec-2022	0.037644	8.920110	13.377200	2.507320	32.598658	1.252100	0.023205	0.243618	0.033754	0.002227	0.001707	0.089536	0.000380	0.008755	0.004649	0.001294	0.012942
20-Dec-2022	0.037644	8.964170	13.443300	2.519700	32.759657	1.258290	0.023320	0.244822	0.033920	0.002238	0.001715	0.089979	0.000382	0.008799	0.004672	0.001301	0.013006
21-Dec-2022	0.037644	9.010570	13.512900	2.532750	32.929258	1.264800	0.023440	0.246089	0.034096	0.002249	0.001724	0.090445	0.000384	0.008844	0.004697	0.001307	0.013074
22-Dec-2022	0.037644	9.058280	13.584400	2.546150	33.103571	1.271500	0.023565	0.247392	0.034276	0.002261	0.001733	0.090923	0.000386	0.008891	0.004721	0.001314	0.013143
23-Dec-2022	0.037644	9.101480	13.649200	2.558300	33.261475	1.277560	0.023677	0.248572	0.034440	0.002272	0.001741	0.091357	0.000388	0.008933	0.004744	0.001321	0.013206
24-Dec-2022	0.037644	9.153160	13.726700	2.572820	33.450313	1.284810	0.023811	0.249983	0.034635	0.002285	0.001751	0.091876	0.000390	0.008984	0.004771	0.001328	0.013281
25-Dec-2022	0.037644	9.215890	13.820800	2.590460	33.679592	1.293620	0.023975	0.251696	0.034873	0.002301	0.001763	0.092505	0.000393	0.009046	0.004804	0.001337	0.013372
26-Dec-2022	0.037644	9.255180	13.879700	2.601500	33.823161	1.299130	0.024077	0.252770	0.035021	0.002310	0.001771	0.092900	0.000394	0.009084	0.004824	0.001343	0.013429
27-Dec-2022	0.037644	9.296000	13.940900	2.612970	33.972322	1.304860	0.024183	0.253884	0.035176	0.002321	0.001779	0.093310	0.000396	0.009124	0.004845	0.001349	0.013488
28-Dec-2022	0.037644	9.352860	14.026200	2.628960	34.180149	1.312850	0.024331	0.255437	0.035391	0.002335	0.001789	0.093880	0.000399	0.009180	0.004875	0.001357	0.013570
29-Dec-2022	0.037644	9.412400	14.115500	2.645690	34.397714	1.321200	0.024486	0.257063	0.035616	0.002350	0.001801	0.094478	0.000401	0.009239	0.004906	0.001366	0.013657
30-Dec-2022	0.037644	9.457590	14.183200	2.658400	34.562893	1.327550	0.024603	0.258298	0.035787	0.002361	0.001809	0.094932	0.000403	0.009283	0.004930	0.001372	0.013722
31-Dec-2022	0.037644	9.504210	14.253200	2.671500	34.733249	1.334090	0.024725	0.259571	0.035964	0.002373	0.001818	0.095399	0.000405	0.009329	0.004954	0.001379	0.013790
1-Jan-2023	0.037644	9.559320	14.335800	2.686990	34.934647	1.341830	0.024868	0.261076	0.036172	0.002386	0.001829	0.095953	0.000407	0.009383	0.004983	0.001387	0.013870
2-Jan-2023	0.037644	9.635190	14.449600	2.708320	35.211931	1.352480	0.025065	0.263148	0.036459	0.002405	0.001843	0.096714	0.000411	0.009457	0.005022	0.001398	0.013980
3-Jan-2023	0.037644	9.690820	14.533000	2.723950	35.415204	1.360280	0.025210	0.264667	0.036670	0.002419	0.001854	0.097273	0.000413	0.009512	0.005051	0.001406	0.014061
4-Jan-2023	0.037644	9.727580	14.588100	2.734290	35.549573	1.365450	0.025306	0.265671	0.036809	0.002428	0.001861	0.097642	0.000415	0.009548	0.005070	0.001411	0.014114
5-Jan-2023	0.037644	9.779000	14.665300	2.748740	35.737474	1.372660	0.025439	0.267076	0.037004	0.002441	0.001871	0.098158	0.000417	0.009598	0.005097	0.001419	0.014189
6-Jan-2023	0.037644	9.839370	14.755800	2.765710	35.958101	1.381140	0.025596	0.268724	0.037232	0.002456	0.001882	0.098764	0.000419	0.009658	0.005129	0.001428	0.014276
7-Jan-2023	0.037644	9.894440	14.838400	2.781190	36.159357	1.388870	0.025740	0.270229	0.037440	0.002470	0.001893	0.099316	0.000422	0.009712	0.005157	0.001436	0.014356
8-Jan-2023	0.037644	9.936860	14.902000	2.793110	36.314366	1.394820	0.025850	0.271387	0.037601	0.002481	0.001901	0.099742	0.000424	0.009753	0.005179	0.001442	0.014418
9-Jan-2023	0.037644	9.988300	14.979100	2.807570	36.502358	1.402040	0.025984	0.272792	0.037796	0.002493	0.001911	0.100258	0.000426	0.009804	0.005206	0.001449	0.014492
10-Jan-2023	0.037644	10.040900	15.058100	2.822360	36.694606	1.409430	0.026121	0.274229	0.037995	0.002507	0.001921	0.100787	0.000428	0.009856	0.005234	0.001457	0.014569
11-Jan-2023	0.037644	10.093000	15.136100	2.836990	36.884946	1.416730	0.026256	0.275651	0.038192	0.002520	0.001931	0.101309	0.000430	0.009907	0.005261	0.001464	0.014644
12-Jan-2023	0.037644	10.145000	15.214000	2.851600	37.074954	1.424030	0.026391	0.277070	0.038388	0.002533	0.001941	0.101831	0.000432	0.009958	0.005288	0.001472	0.014720
13-Jan-2023	0.037644	10.192300	15.285100	2.864920	37.247914	1.430680	0.026515	0.278364	0.038568	0.002544	0.001950	0.102306	0.000434	0.010004	0.005313	0.001479	0.014788
14-Jan-2023	0.037644	10.246200	15.365800	2.880050	37.444807	1.438240	0.026655	0.279835	0.038771	0.002558	0.001960	0.102847	0.000437	0.010057	0.005341	0.001487	0.014866
15-Jan-2023	0.037644	10.301700	15.449100	2.895660	37.647673	1.446030	0.026799	0.281351	0.038981	0.002572	0.001971	0.103404	0.000439	0.010111	0.005370	0.001495	0.014947
16-Jan-2023	0.037644	10.354700	15.528600	2.910570	37.841413	1.453480	0.026937	0.282800	0.039182	0.002585	0.001981	0.103937	0.000441	0.010164	0.005397	0.001502	0.015024
17-Jan-2023	0.037644	10.405400	15.604600	2.924810	38.026651	1.460590	0.027069	0.284183	0.039374	0.002598	0.001991	0.104445	0.000443	0.010213	0.005424	0.001510	0.015097
18-Jan-2023	0.037644	10.459300	15.685500	2.939970	38.223669	1.468160	0.027209	0.285656	0.039578	0.002611	0.002001	0.104986	0.000446	0.010266	0.005452	0.001518	0.015176
19-Jan-2023	0.037644	10.515000	15.769000	2.955620	38.427198	1.475970	0.027354	0.287177	0.039789	0.002625	0.002012	0.105545	0.000448	0.010321	0.005481	0.001526	0.015256
20-Jan-2023	0.037644	10.571600	15.853800	2.971520	38.634005	1.483920	0.027501	0.288722	0.040003	0.002639	0.002023	0.106113	0.000451	0.010376	0.005510	0.001534	0.015339
21-Jan-2023	0.037644	10.627800	15.938200	2.987340	38.839483	1.491810	0.027648	0.290259	0.040216	0.002653	0.002033	0.106678	0.000453	0.010432	0.005540	0.001542	0.015420
22-Jan-2023	0.037644	10.684400	16.023100	3.003240	39.046289	1.499760	0.027795	0.291804	0.040430	0.002667	0.002044	0.107246	0.000455	0.010487	0.005569	0.001550	0.015502
23-Jan-2023	0.037644	10.739100	16.105100	3.018610	39.246169	1.507430	0.027937	0.293298	0.040637	0.002681	0.002055	0.107795	0.000458	0.010541	0.005598	0.001558	0.015582
24-Jan-2023	0.037644	10.795400	16.189500	3.034440	39.451938	1.515340	0.028084	0.294835	0.040850	0.002695	0.002065	0.108360	0.000460	0.010596	0.005627	0.001566	0.015663
25-Jan-2023	0.037644	10.854100	16.277500	3.050930	39.666417	1.523570	0.028236	0.296437	0.041072	0.002710	0.002077	0.108949	0.000463	0.010654	0.005658	0.001575	0.015748
26-Jan-2023	0.037644	10.919100	16.375000	3.069200	39.903958	1.532700	0.028405	0.298213	0.041318	0.002726	0.002089	0.109601	0.000465	0.010718	0.005691	0.001584	0.015843
27-Jan-2023	0.037644	10.933400	16.396400	3.073220	39.956220	1.534700	0.028442	0.298603	0.041372	0.002729	0.002092	0.109745	0.000466	0.010732	0.005699	0.001586	0.015863
28-Jan-2023	0.037644	10.991000	16.482800	3.089410	40.166717	1.542790	0.028592	0.300177	0.041590	0.002744	0.002103	0.110323	0.000468	0.010788	0.005729	0.001595	0.015947
29-Jan-2023	0.037644	11.050600	16.572200	3.106160	40.384515	1.551150	0.028747	0.301804	0.041815	0.002759	0.002114	0.110921	0.000471	0.010847	0.005760	0.001603	0.016034
30-Jan-2023	0.037644	11.110300	16.661700	3.122940	40.602686	1.559530	0.028903	0.303434	0.042041	0.002774	0.002126	0.111520	0.000474	0.010905	0.005791	0.001612	0.016120
31-Jan-2023	0.037644	11.190700	16.782400	3.145550	40.896553	1.570820	0.029112	0.305632	0.042346	0.002794	0.002141	0.112328	0.000477	0.010984	0.005833	0.001624	0.016237
1-Feb-2023	0.037644	11.274000	16.907200	3.168950	41.200914	1.582510	0.029328	0.307905	0.042660	0.002814	0.002157	0.113163	0.000481	0.011066	0.005876	0.001636	0.016358
2-Feb-2023	0.037644	11.357300	17.032200	3.192390	41.505440	1.594210	0.029545	0.310182	0.042976	0.002835	0.002173	0.114000	0.000484	0.011148	0.005920	0.001648	0.016479
3-Feb-2023	0.037644	11.439600	17.155500	3.215500	41.806110	1.605750	0.029759	0.312428	0.043287	0.002856	0.002189	0.114826	0.000488	0.011228	0.005963	0.001660	0.016598
4-Feb-2023	0.037644	11.520200	17.276500	3.238180	42.100765	1.617080	0.029969	0.314631	0.043592	0.002876	0.002204	0.115636	0.000491	0.011308	0.006005	0.001671	0.016715
5-Feb-2023	0.037644	11.599200	17.394900	3.260360	42.389365	1.628150	0.030174	0.316786	0.043891	0.002896	0.002219	0.116428	0.000494	0.011385	0.006046	0.001683	0.016829
6-Feb-2023	0.037644	11.676400	17.510700	3.282070	42.671535	1.639000	0.030375	0.318896	0.044183	0.002915	0.002234	0.117203	0.000498	0.011461	0.006086	0.001694	0.016942

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Feb-2023	0.037644	11.751700	17.623600	3.303230	42.946696	1.649560	0.030571	0.320951	0.044468	0.002934	0.002248	0.117958	0.000501	0.011535	0.006125	0.001705	0.017051
8-Feb-2023	0.037644	11.663800	17.491900	3.278540	42.625536	1.637230	0.030343	0.318553	0.044136	0.002912	0.002232	0.117077	0.000497	0.011448	0.006080	0.001692	0.016923
9-Feb-2023	0.037644	11.730100	17.591300	3.297180	42.867847	1.646540	0.030515	0.320364	0.044387	0.002928	0.002244	0.117742	0.000500	0.011514	0.006114	0.001702	0.017020
10-Feb-2023	0.037644	11.797200	17.691900	3.316030	43.113020	1.655950	0.030690	0.322195	0.044640	0.002945	0.002257	0.118415	0.000503	0.011579	0.006149	0.001712	0.017117
11-Feb-2023	0.037644	11.865400	17.794100	3.335190	43.362216	1.665530	0.030867	0.324057	0.044898	0.002962	0.002270	0.119100	0.000506	0.011646	0.006185	0.001722	0.017216
12-Feb-2023	0.037644	11.934800	17.898200	3.354690	43.615809	1.675260	0.031047	0.325952	0.045161	0.002979	0.002283	0.119796	0.000509	0.011714	0.006221	0.001732	0.017316
13-Feb-2023	0.037644	11.998900	17.994400	3.372730	43.850155	1.684270	0.031214	0.327705	0.045404	0.002995	0.002296	0.120441	0.000511	0.011777	0.006254	0.001741	0.017410
14-Feb-2023	0.037644	12.070100	18.101100	3.392730	44.110302	1.694260	0.031400	0.329648	0.045673	0.003013	0.002309	0.121155	0.000514	0.011847	0.006291	0.001751	0.017513
15-Feb-2023	0.037644	12.136600	18.200800	3.411420	44.353318	1.703590	0.031572	0.331464	0.045925	0.003030	0.002322	0.121822	0.000517	0.011913	0.006326	0.001761	0.017609
16-Feb-2023	0.037644	12.202900	18.300200	3.430050	44.595587	1.712900	0.031745	0.333274	0.046175	0.003046	0.002335	0.122487	0.000520	0.011978	0.006361	0.001771	0.017705
17-Feb-2023	0.037644	12.269100	18.399500	3.448660	44.837525	1.722190	0.031917	0.335083	0.046426	0.003063	0.002347	0.123152	0.000523	0.012043	0.006395	0.001780	0.017801
18-Feb-2023	0.037644	12.333500	18.496100	3.466760	45.072867	1.731230	0.032085	0.336841	0.046670	0.003079	0.002360	0.123798	0.000526	0.012106	0.006429	0.001789	0.017895
19-Feb-2023	0.037644	12.406800	18.606100	3.487380	45.340810	1.741520	0.032275	0.338844	0.046947	0.003097	0.002374	0.124534	0.000529	0.012178	0.006467	0.001800	0.018001
20-Feb-2023	0.037644	12.461300	18.687800	3.502690	45.539944	1.749170	0.032417	0.340332	0.047153	0.003111	0.002384	0.125081	0.000531	0.012231	0.006495	0.001808	0.018080
21-Feb-2023	0.037644	12.555000	18.828300	3.529030	45.882381	1.762320	0.032661	0.342891	0.047508	0.003134	0.002402	0.126022	0.000535	0.012323	0.006544	0.001822	0.018216
22-Feb-2023	0.037644	12.609200	18.909600	3.544270	46.080476	1.769940	0.032802	0.344372	0.047713	0.003148	0.002412	0.126566	0.000537	0.012376	0.006572	0.001829	0.018295
23-Feb-2023	0.037644	12.677000	19.011300	3.563330	46.328262	1.779450	0.032978	0.346224	0.047970	0.003165	0.002425	0.127247	0.000540	0.012443	0.006608	0.001839	0.018393
24-Feb-2023	0.037644	12.749000	19.119300	3.583580	46.591435	1.789560	0.033166	0.348191	0.048242	0.003183	0.002439	0.127970	0.000543	0.012514	0.006645	0.001850	0.018498
25-Feb-2023	0.037644	12.822800	19.229900	3.604310	46.861080	1.799920	0.033358	0.350206	0.048521	0.003201	0.002453	0.128710	0.000547	0.012586	0.006684	0.001860	0.018605
26-Feb-2023	0.037644	12.896500	19.340500	3.625030	47.130434	1.810270	0.033549	0.352219	0.048800	0.003220	0.002467	0.129450	0.000550	0.012658	0.006722	0.001871	0.018712
27-Feb-2023	0.037644	12.970500	19.451400	3.645820	47.400825	1.820650	0.033742	0.354239	0.049080	0.003238	0.002482	0.130193	0.000553	0.012731	0.006761	0.001882	0.018819
28-Feb-2023	0.037644	13.047800	19.567400	3.667560	47.683369	1.831500	0.033943	0.356351	0.049373	0.003257	0.002496	0.130969	0.000556	0.012807	0.006801	0.001893	0.018931
1-Mar-2023	0.037644	13.123400	19.680700	3.688800	47.959608	1.842110	0.034140	0.358415	0.049659	0.003276	0.002511	0.131727	0.000559	0.012881	0.006840	0.001904	0.019041
2-Mar-2023	0.037644	13.142600	19.709500	3.694190	48.029747	1.844800	0.034190	0.358939	0.049731	0.003281	0.002514	0.131920	0.000560	0.012900	0.006850	0.001907	0.019069
3-Mar-2023	0.037644	13.215500	19.818900	3.714700	48.296238	1.855050	0.034379	0.360932	0.050007	0.003299	0.002528	0.132652	0.000563	0.012972	0.006888	0.001917	0.019175
4-Mar-2023	0.037644	13.296800	19.940700	3.737530	48.593258	1.866450	0.034591	0.363150	0.050315	0.003319	0.002544	0.133468	0.000567	0.013051	0.006931	0.001929	0.019293
5-Mar-2023	0.037644	13.380200	20.065900	3.760990	48.898116	1.878160	0.034808	0.365429	0.050631	0.003340	0.002560	0.134305	0.000570	0.013133	0.006974	0.001941	0.019414
6-Mar-2023	0.037644	13.466400	20.195200	3.785220	49.213137	1.890260	0.035032	0.367784	0.050957	0.003362	0.002576	0.135171	0.000574	0.013218	0.007019	0.001954	0.019539
7-Mar-2023	0.037644	13.554000	20.326500	3.809840	49.533259	1.902550	0.035260	0.370175	0.051288	0.003384	0.002593	0.136050	0.000578	0.013304	0.007065	0.001967	0.019666
8-Mar-2023	0.037644	13.639400	20.454600	3.833840	49.845335	1.914540	0.035482	0.372508	0.051611	0.003405	0.002610	0.136907	0.000581	0.013388	0.007109	0.001979	0.019790
9-Mar-2023	0.037644	13.721000	20.576900	3.856780	50.143557	1.925990	0.035694	0.374736	0.051920	0.003425	0.002625	0.137726	0.000585	0.013468	0.007152	0.001991	0.019908
10-Mar-2023	0.037644	13.805900	20.704200	3.880630	50.453767	1.937910	0.035915	0.377054	0.052241	0.003447	0.002641	0.138578	0.000588	0.013551	0.007196	0.002003	0.020031
11-Mar-2023	0.037644	13.890700	20.831500	3.904490	50.763768	1.949820	0.036136	0.379372	0.052562	0.003468	0.002658	0.139430	0.000592	0.013634	0.007240	0.002015	0.020154
12-Mar-2023	0.037644	13.976500	20.960100	3.928600	51.077295	1.961860	0.036359	0.381715	0.052887	0.003489	0.002674	0.140291	0.000596	0.013718	0.007285	0.002028	0.020279
13-Mar-2023	0.037644	14.063900	21.091100	3.953160	51.396671	1.974120	0.036586	0.384100	0.053217	0.003511	0.002691	0.141167	0.000599	0.013804	0.007331	0.002041	0.020406
14-Mar-2023	0.037644	14.151300	21.222200	3.977730	51.716088	1.986390	0.036814	0.386488	0.053548	0.003533	0.002707	0.142045	0.000603	0.013890	0.007376	0.002053	0.020532
15-Mar-2023	0.037644	14.290600	21.431200	4.016890	52.225181	2.005950	0.037176	0.390293	0.054075	0.003568	0.002734	0.143443	0.000609	0.014027	0.007449	0.002073	0.020735
16-Mar-2023	0.037644	14.429200	21.639000	4.055850	52.731703	2.025410	0.037537	0.394079	0.054600	0.003602	0.002761	0.144835	0.000615	0.014163	0.007521	0.002094	0.020936
17-Mar-2023	0.037644	14.530400	21.790800	4.084300	53.101556	2.039620	0.037800	0.396843	0.054983	0.003627	0.002780	0.145851	0.000619	0.014262	0.007574	0.002108	0.021083
18-Mar-2023	0.037644	14.618700	21.923200	4.109110	53.424209	2.052010	0.038030	0.399254	0.055317	0.003649	0.002797	0.146737	0.000623	0.014349	0.007620	0.002121	0.021211
19-Mar-2023	0.037644	14.714100	22.066200	4.135920	53.772826	2.065390	0.038278	0.401859	0.055678	0.003673	0.002815	0.147694	0.000627	0.014442	0.007669	0.002135	0.021349
20-Mar-2023	0.037644	14.818700	22.223200	4.165340	54.155164	2.080080	0.038550	0.404717	0.056074	0.003699	0.002835	0.148744	0.000632	0.014545	0.007724	0.002150	0.021501
21-Mar-2023	0.037644	14.856000	22.279100	4.175820	54.291459	2.085320	0.038647	0.405735	0.056215	0.003709	0.002842	0.149119	0.000633	0.014582	0.007743	0.002155	0.021555
22-Mar-2023	0.037644	14.952500	22.423700	4.202930	54.644058	2.098860	0.038898	0.408370	0.056580	0.003733	0.002861	0.150087	0.000637	0.014676	0.007794	0.002169	0.021695
23-Mar-2023	0.037644	15.051700	22.572500	4.230810	55.006570	2.112780	0.039156	0.411078	0.056955	0.003758	0.002880	0.151082	0.000642	0.014774	0.007845	0.002184	0.021839
24-Mar-2023	0.037644	15.160000	22.735000	4.261270	55.402430	2.127990	0.039438	0.414038	0.057365	0.003785	0.002900	0.152170	0.000646	0.014880	0.007902	0.002200	0.021996
25-Mar-2023	0.037644	15.246500	22.864700	4.285590	55.718570	2.140130	0.039663	0.416401	0.057693	0.003806	0.002917	0.153039	0.000650	0.014965	0.007947	0.002212	0.022122
26-Mar-2023	0.037644	15.342400	23.008500	4.312540	56.069013	2.153590	0.039912	0.419019	0.058055	0.003830	0.002935	0.154001	0.000654	0.015059	0.007997	0.002226	0.022261
27-Mar-2023	0.037644	15.437200	23.150700	4.339180	56.415432	2.166900	0.040159	0.421608	0.058414	0.003854	0.002953	0.154952	0.000658	0.015152	0.008046	0.002240	0.022398
28-Mar-2023	0.037644	15.558100	23.331900	4.373150	56.857207	2.183860	0.040473	0.424908	0.058871	0.003884	0.002977	0.156165	0.000663	0.015271	0.008109	0.002257	0.022573
29-Mar-2023	0.037644	15.662900	23.489200	4.402630	57.240292	2.198580	0.040746	0.427772	0.059268	0.003910	0.002997	0.157218	0.000668	0.015374	0.008164	0.002273	0.022726

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30-Mar-2023	0.037644	15.778100	23.662000	4.435010	57.661287	2.214750	0.041046	0.430919	0.059704	0.003939	0.003019	0.158375	0.000672	0.015487	0.008224	0.002289	0.022893
31-Mar-2023	0.037644	15.886100	23.823900	4.465360	58.055944	2.229910	0.041327	0.433868	0.060113	0.003966	0.003039	0.159458	0.000677	0.015593	0.008280	0.002305	0.023049
1-Apr-2023	0.037644	16.013200	24.014500	4.501090	58.520449	2.247750	0.041657	0.437340	0.060594	0.003998	0.003064	0.160734	0.000683	0.015718	0.008347	0.002323	0.023234
2-Apr-2023	0.037644	16.075700	24.108200	4.518650	58.748824	2.256520	0.041820	0.439045	0.060830	0.004013	0.003076	0.161361	0.000685	0.015779	0.008379	0.002332	0.023325
3-Apr-2023	0.037644	16.072300	24.103100	4.517690	58.736381	2.256040	0.041811	0.438952	0.060817	0.004012	0.003075	0.161327	0.000685	0.015776	0.008377	0.002332	0.023320
4-Apr-2023	0.037644	16.048300	24.067200	4.510960	58.648738	2.252680	0.041749	0.438299	0.060727	0.004006	0.003070	0.161087	0.000684	0.015752	0.008365	0.002328	0.023285
5-Apr-2023	0.037644	16.024200	24.031000	4.504190	58.560682	2.249300	0.041686	0.437640	0.060635	0.004000	0.003066	0.160845	0.000683	0.015728	0.008352	0.002325	0.023250
6-Apr-2023	0.037644	16.000500	23.995400	4.497500	58.473954	2.245960	0.041624	0.436991	0.060545	0.003994	0.003061	0.160606	0.000682	0.015705	0.008340	0.002322	0.023215
7-Apr-2023	0.037644	15.981000	23.966200	4.492030	58.402737	2.243230	0.041573	0.436459	0.060472	0.003990	0.003058	0.160411	0.000681	0.015686	0.008330	0.002319	0.023187
8-Apr-2023	0.037644	15.963800	23.940400	4.487210	58.339939	2.240820	0.041529	0.435990	0.060407	0.003985	0.003054	0.160238	0.000680	0.015669	0.008321	0.002316	0.023162
9-Apr-2023	0.037644	15.947800	23.916400	4.482710	58.281456	2.238570	0.041487	0.435554	0.060346	0.003981	0.003051	0.160078	0.000680	0.015653	0.008313	0.002314	0.023139
10-Apr-2023	0.037644	15.933000	23.894200	4.478550	58.227370	2.236490	0.041449	0.435149	0.060290	0.003978	0.003048	0.159929	0.000679	0.015639	0.008305	0.002312	0.023118
11-Apr-2023	0.037644	15.919300	23.873600	4.474680	58.177224	2.234560	0.041413	0.434773	0.060238	0.003974	0.003046	0.159791	0.000679	0.015625	0.008298	0.002310	0.023098
12-Apr-2023	0.037644	15.906400	23.854300	4.471060	58.130106	2.232750	0.041379	0.434422	0.060189	0.003971	0.003043	0.159662	0.000678	0.015613	0.008291	0.002308	0.023079
13-Apr-2023	0.037644	15.894300	23.836100	4.467650	58.085850	2.231050	0.041348	0.434091	0.060144	0.003968	0.003041	0.159540	0.000677	0.015601	0.008285	0.002306	0.023061
14-Apr-2023	0.037644	15.883000	23.819200	4.464480	58.044580	2.229470	0.041318	0.433782	0.060101	0.003965	0.003039	0.159427	0.000677	0.015590	0.008279	0.002304	0.023045
15-Apr-2023	0.037644	15.872400	23.803300	4.461500	58.005840	2.227980	0.041291	0.433492	0.060061	0.003962	0.003037	0.159320	0.000677	0.015579	0.008273	0.002303	0.023030
16-Apr-2023	0.037644	15.862400	23.788300	4.458700	57.969339	2.226580	0.041265	0.433220	0.060023	0.003960	0.003035	0.159220	0.000676	0.015570	0.008268	0.002302	0.023015
17-Apr-2023	0.037644	15.853000	23.774200	4.456050	57.934955	2.225260	0.041240	0.432963	0.059987	0.003958	0.003033	0.159126	0.000676	0.015560	0.008263	0.002300	0.023001
18-Apr-2023	0.037644	15.844100	23.760900	4.453560	57.902478	2.224020	0.041217	0.432722	0.059954	0.003955	0.003031	0.159037	0.000675	0.015552	0.008259	0.002299	0.022989
19-Apr-2023	0.037644	15.835900	23.748600	4.451250	57.872490	2.222860	0.041196	0.432497	0.059923	0.003953	0.003030	0.158954	0.000675	0.015544	0.008254	0.002298	0.022977
20-Apr-2023	0.037644	15.828300	23.737100	4.449100	57.844659	2.221790	0.041176	0.432288	0.059894	0.003951	0.003028	0.158878	0.000675	0.015536	0.008250	0.002297	0.022966
21-Apr-2023	0.037644	15.821200	23.726500	4.447110	57.818735	2.220790	0.041158	0.432094	0.059867	0.003950	0.003027	0.158806	0.000674	0.015529	0.008247	0.002296	0.022955
22-Apr-2023	0.037644	15.814600	23.716600	4.445250	57.794596	2.219870	0.041141	0.431914	0.059842	0.003948	0.003026	0.158740	0.000674	0.015523	0.008243	0.002295	0.022946
23-Apr-2023	0.037644	15.808400	23.707400	4.443520	57.771990	2.219000	0.041125	0.431746	0.059819	0.003946	0.003024	0.158679	0.000674	0.015517	0.008240	0.002294	0.022937
24-Apr-2023	0.037644	15.802700	23.698700	4.441910	57.751127	2.218200	0.041110	0.431589	0.059797	0.003945	0.003023	0.158621	0.000674	0.015511	0.008237	0.002293	0.022928
25-Apr-2023	0.037644	15.797200	23.690600	4.440380	57.731093	2.217430	0.041095	0.431441	0.059776	0.003944	0.003022	0.158566	0.000673	0.015506	0.008234	0.002292	0.022921
26-Apr-2023	0.037644	15.792100	23.682900	4.438940	57.712429	2.216710	0.041082	0.431300	0.059757	0.003942	0.003021	0.158515	0.000673	0.015501	0.008231	0.002291	0.022913
27-Apr-2023	0.037644	15.787200	23.675600	4.437560	57.694510	2.216030	0.041069	0.431167	0.059739	0.003941	0.003020	0.158466	0.000673	0.015496	0.008229	0.002291	0.022906
28-Apr-2023	0.037644	15.782600	23.668700	4.436270	57.677712	2.215380	0.041057	0.431041	0.059721	0.003940	0.003020	0.158419	0.000673	0.015491	0.008226	0.002290	0.022899
29-Apr-2023	0.037644	15.778200	23.662100	4.435040	57.661660	2.214770	0.041046	0.430922	0.059705	0.003939	0.003019	0.158376	0.000672	0.015487	0.008224	0.002289	0.022893
30-Apr-2023	0.037654	15.773700	23.655400	4.433780	57.645235	2.214140	0.041034	0.430799	0.059688	0.003938	0.003018	0.158330	0.000672	0.015483	0.008222	0.002289	0.022886
1-May-2023	0.037838	15.786800	23.674900	4.437450	57.693059	2.215970	0.041068	0.431156	0.059737	0.003941	0.003020	0.158462	0.000673	0.015495	0.008229	0.002291	0.022905
2-May-2023	0.038889	15.793800	23.685400	4.439420	57.718650	2.216950	0.041087	0.431347	0.059763	0.003943	0.003022	0.158532	0.000673	0.015502	0.008232	0.002292	0.022916
3-May-2023	0.044709	15.622100	23.427900	4.391150	57.091139	2.192850	0.040640	0.426657	0.059114	0.003900	0.002989	0.156808	0.000666	0.015334	0.008143	0.002267	0.022666
4-May-2023	0.054206	15.308000	22.956900	4.302870	55.943295	2.148760	0.039823	0.418079	0.057925	0.003822	0.002929	0.153656	0.000652	0.015025	0.007979	0.002221	0.022211
5-May-2023	0.064033	14.993200	22.484800	4.214370	54.792796	2.104570	0.039004	0.409481	0.056734	0.003743	0.002869	0.150495	0.000639	0.014716	0.007815	0.002175	0.021754
6-May-2023	0.071294	14.729500	22.089300	4.140250	53.829111	2.067550	0.038318	0.402279	0.055736	0.003677	0.002818	0.147849	0.000628	0.014458	0.007678	0.002137	0.021371
7-May-2023	0.082980	14.350000	21.520200	4.033580	52.442232	2.014290	0.037331	0.391915	0.054300	0.003582	0.002745	0.144039	0.000612	0.014085	0.007480	0.002082	0.020821
8-May-2023	0.089991	14.085600	21.123800	3.959270	51.476017	1.977180	0.036643	0.384695	0.053300	0.003516	0.002695	0.141386	0.000600	0.013826	0.007342	0.002044	0.020437
9-May-2023	0.090125	14.069000	21.098800	3.954600	51.415336	1.974840	0.036600	0.384240	0.053237	0.003512	0.002692	0.141219	0.000600	0.013809	0.007333	0.002041	0.020413
10-May-2023	0.096010	13.890100	20.830500	3.904310	50.761528	1.949730	0.036134	0.379355	0.052560	0.003468	0.002657	0.139423	0.000592	0.013634	0.007240	0.002015	0.020153
11-May-2023	0.146722	13.975900	20.959200	3.928420	51.075056	1.961770	0.036357	0.381697	0.052884	0.003489	0.002674	0.140284	0.000596	0.013718	0.007285	0.002028	0.020278
12-May-2023	0.151111	13.930100	20.890500	3.915550	50.907695	1.955340	0.036238	0.380447	0.052711	0.003478	0.002665	0.139825	0.000594	0.013673	0.007261	0.002021	0.020211
13-May-2023	0.153913	13.858600	20.783200	3.895450	50.646387	1.945310	0.036052	0.378493	0.052441	0.003460	0.002651	0.139107	0.000591	0.013603	0.007224	0.002011	0.020108
14-May-2023	0.155072	13.571900	20.353400	3.814880	49.598710	1.905070	0.035306	0.370665	0.051356	0.003388	0.002597	0.136229	0.000578	0.013321	0.007074	0.001969	0.019692
15-May-2023	0.157205	13.423500	20.130800	3.773150	49.056311	1.884230	0.034920	0.366611	0.050794	0.003351	0.002568	0.134740	0.000572	0.013176	0.006997	0.001948	0.019476
16-May-2023	0.163922	13.221900	19.828500	3.716500	48.319631	1.855940	0.034396	0.361106	0.050032	0.003301	0.002530	0.132716	0.000564	0.012978	0.006892	0.001918	0.019184
17-May-2023	0.165048	13.064600	19.592500	3.672270	47.744714	1.833850	0.033987	0.356809	0.049436	0.003261	0.002500	0.131137	0.000557	0.012823	0.006810	0.001896	0.018956
18-May-2023	0.171594	12.708500	19.058500	3.572170	46.443321	1.783870	0.033060	0.347083	0.048089	0.003173	0.002431	0.127563	0.000542	0.012474	0.006624	0.001844	0.018439
19-May-2023	0.176385	12.608000	18.907800	3.543930	46.076080	1.769760	0.032799	0.344339	0.047708	0.003147	0.002412	0.126554	0.000537	0.012375	0.006572	0.001829	0.018293

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
20-May-2023	0.210122	11.528400	17.288800	3.240470	42.130670	1.618220	0.029990	0.314854	0.043623	0.002878	0.002206	0.115718	0.000491	0.011316	0.006009	0.001673	0.016727
21-May-2023	0.216971	11.197900	16.793100	3.147580	40.922891	1.571830	0.029131	0.305828	0.042373	0.002795	0.002142	0.112400	0.000477	0.010991	0.005837	0.001625	0.016247
22-May-2023	0.223345	10.781700	16.168900	3.030580	39.401833	1.513410	0.028048	0.294460	0.040798	0.002692	0.002063	0.108222	0.000460	0.010583	0.005620	0.001564	0.015643
23-May-2023	0.234080	10.128200	15.189000	2.846910	37.013691	1.421690	0.026348	0.276614	0.038325	0.002528	0.001938	0.101663	0.000432	0.009941	0.005279	0.001470	0.014695
24-May-2023	0.244613	9.319960	13.976800	2.619710	34.059906	1.308230	0.024245	0.254539	0.035267	0.002327	0.001783	0.093550	0.000397	0.009148	0.004858	0.001352	0.013523
25-May-2023	0.266349	8.409090	12.610800	2.363680	30.731132	1.180370	0.021876	0.229662	0.031820	0.002099	0.001609	0.084407	0.000358	0.008254	0.004383	0.001220	0.012201
26-May-2023	0.280299	7.947230	11.918200	2.233860	29.043269	1.115540	0.020674	0.217048	0.030072	0.001984	0.001520	0.079771	0.000339	0.007800	0.004142	0.001153	0.011531
27-May-2023	0.291551	7.600610	11.398400	2.136420	27.776501	1.066890	0.019773	0.207581	0.028761	0.001897	0.001454	0.076292	0.000324	0.007460	0.003962	0.001103	0.011028
28-May-2023	0.301953	7.695770	11.541100	2.163170	28.124272	1.080240	0.020020	0.210180	0.029121	0.001921	0.001472	0.077247	0.000328	0.007554	0.004011	0.001117	0.011166
29-May-2023	0.309862	8.506450	12.756800	2.391040	31.086908	1.194040	0.022129	0.232321	0.032188	0.002124	0.001627	0.085384	0.000363	0.008349	0.004434	0.001234	0.012342
30-May-2023	0.327177	8.342990	12.511700	2.345100	30.489568	1.171090	0.021704	0.227857	0.031570	0.002083	0.001596	0.083744	0.000356	0.008189	0.004349	0.001211	0.012105
31-May-2023	0.330192	8.566650	12.847100	2.407960	31.306904	1.202490	0.022286	0.233965	0.032416	0.002139	0.001639	0.085989	0.000365	0.008408	0.004465	0.001243	0.012430
1-Jun-2023	0.339458	8.441790	12.659900	2.372870	30.850628	1.184960	0.021961	0.230555	0.031944	0.002107	0.001615	0.084735	0.000360	0.008286	0.004400	0.001225	0.012248
2-Jun-2023	0.421550	8.082680	12.121300	2.271930	29.538260	1.134550	0.021027	0.220747	0.030585	0.002018	0.001546	0.081131	0.000344	0.007933	0.004213	0.001173	0.011727
3-Jun-2023	0.428430	8.069800	12.102000	2.268310	29.491191	1.132740	0.020993	0.220395	0.030536	0.002015	0.001544	0.081001	0.000344	0.007921	0.004206	0.001171	0.011709
4-Jun-2023	0.449470	7.996400	11.991900	2.247680	29.222957	1.122440	0.020802	0.218391	0.030258	0.001996	0.001530	0.080265	0.000341	0.007849	0.004168	0.001160	0.011602
5-Jun-2023	0.469517	7.577410	11.363600	2.129900	27.691721	1.063630	0.019712	0.206948	0.028673	0.001892	0.001450	0.076059	0.000323	0.007437	0.003950	0.001099	0.010994
6-Jun-2023	0.478696	7.089000	10.630100	1.992900	25.907995	0.994952	0.018445	0.193653	0.026841	0.001770	0.001357	0.071185	0.000302	0.006960	0.003695	0.001029	0.010286
7-Jun-2023	0.501122	7.256780	10.865800	2.044330	26.538731	1.016730	0.018928	0.198915	0.027721	0.001808	0.001398	0.073288	0.000308	0.007147	0.003781	0.001054	0.010540
8-Jun-2023	0.573623	7.026430	10.420100	2.005930	25.805415	0.973405	0.018641	0.197079	0.028482	0.001726	0.001408	0.073506	0.000294	0.007066	0.003649	0.001027	0.010273
9-Jun-2023	0.716011	6.732060	9.825340	1.963320	24.894906	0.915382	0.018361	0.196069	0.029895	0.001613	0.001436	0.074376	0.000274	0.007001	0.003479	0.000995	0.009951
10-Jun-2023	0.895779	6.660610	9.632840	1.965560	24.725719	0.895564	0.018422	0.197798	0.031016	0.001573	0.001469	0.075761	0.000266	0.007056	0.003432	0.000990	0.009903
11-Jun-2023	1.049015	6.536930	9.345980	1.957210	24.382505	0.866329	0.018383	0.198614	0.032200	0.001515	0.001501	0.076999	0.000256	0.007082	0.003357	0.000979	0.009788
12-Jun-2023	1.304810	6.450120	9.165370	1.945870	24.119042	0.847330	0.018253	0.197700	0.032654	0.001479	0.001512	0.077339	0.000250	0.007069	0.003306	0.000969	0.009690
13-Jun-2023	1.537990	6.395410	9.065970	1.934840	23.937010	0.836152	0.018088	0.195881	0.032655	0.001461	0.001511	0.077188	0.000247	0.007039	0.003275	0.000961	0.009614
14-Jun-2023	1.976757	6.270040	8.829550	1.911950	23.529700	0.813108	0.017906	0.194420	0.032976	0.001417	0.001513	0.077133	0.000239	0.006987	0.003204	0.000946	0.009463
15-Jun-2023	2.401150	6.255840	8.790610	1.912210	23.495313	0.808868	0.017906	0.194346	0.033185	0.001410	0.001520	0.077454	0.000237	0.006998	0.003195	0.000945	0.009451
16-Jun-2023	2.593783	6.285940	8.847780	1.917170	23.590898	0.813408	0.017894	0.193715	0.033024	0.001422	0.001518	0.077480	0.000239	0.007007	0.003212	0.000948	0.009479
17-Jun-2023	2.747943	6.283530	8.846980	1.915330	23.577303	0.812892	0.017851	0.192876	0.032916	0.001424	0.001516	0.077421	0.000239	0.006999	0.003211	0.000947	0.009467
18-Jun-2023	2.795353	6.178090	8.675470	1.888580	23.203863	0.796089	0.017587	0.189893	0.032672	0.001396	0.001502	0.076730	0.000234	0.006914	0.003155	0.000932	0.009318
19-Jun-2023	2.847780	6.058190	8.483090	1.857890	22.778091	0.777436	0.017292	0.186829	0.032382	0.001363	0.001485	0.075838	0.000229	0.006813	0.003091	0.000915	0.009150
20-Jun-2023	2.891797	5.908300	8.234870	1.821120	22.252397	0.753191	0.016938	0.183018	0.032119	0.001322	0.001468	0.074958	0.000221	0.006699	0.003011	0.000894	0.008941
21-Jun-2023	2.902103	5.757510	7.985150	1.784180	21.723756	0.729057	0.016595	0.179424	0.031868	0.001280	0.001451	0.074080	0.000214	0.006584	0.002930	0.000873	0.008731
22-Jun-2023	2.907697	5.631150	7.771530	1.754400	21.285601	0.708433	0.016325	0.176734	0.031735	0.001244	0.001440	0.073450	0.000207	0.006495	0.002862	0.000856	0.008559
23-Jun-2023	2.913017	5.534010	7.605760	1.731490	20.948699	0.692471	0.016119	0.174566	0.031621	0.001218	0.001431	0.073055	0.000202	0.006428	0.002810	0.000842	0.008423
24-Jun-2023	2.937563	5.470190	7.498270	1.715570	20.723782	0.681631	0.015950	0.172562	0.031448	0.001203	0.001423	0.072809	0.000199	0.006380	0.002776	0.000833	0.008326
25-Jun-2023	3.016480	5.352980	7.301990	1.686670	20.312098	0.662695	0.015682	0.169624	0.031214	0.001174	0.001410	0.072275	0.000193	0.006293	0.002714	0.000816	0.008158
26-Jun-2023	3.112070	5.270930	7.159460	1.667470	20.028154	0.649057	0.015516	0.167747	0.031119	0.001154	0.001403	0.072068	0.000188	0.006239	0.002670	0.000804	0.008042
27-Jun-2023	3.207430	5.199360	7.034180	1.651310	19.782897	0.637176	0.015384	0.166340	0.031093	0.001134	0.001398	0.071869	0.000184	0.006195	0.002631	0.000795	0.007945
28-Jun-2023	3.283093	5.110170	6.883620	1.629730	19.471323	0.623108	0.015208	0.164422	0.030975	0.001112	0.001389	0.071490	0.000180	0.006131	0.002583	0.000782	0.007822
29-Jun-2023	3.333977	5.038260	6.759160	1.613010	19.222910	0.611869	0.015095	0.163212	0.030944	0.001093	0.001383	0.071288	0.000176	0.006085	0.002545	0.000772	0.007724
30-Jun-2023	3.374840	4.992370	6.676390	1.603130	19.067637	0.604103	0.015022	0.162446	0.030961	0.001081	0.001381	0.071245	0.000173	0.006060	0.002520	0.000766	0.007662
1-Jul-2023	3.466497	4.905160	6.523680	1.583790	18.770232	0.589910	0.014879	0.161149	0.030972	0.001056	0.001375	0.070975	0.000169	0.006007	0.002472	0.000755	0.007548
2-Jul-2023	4.271203	5.203520	7.060200	1.643500	19.761122	0.641775	0.015371	0.164488	0.030559	0.001160	0.001382	0.071931	0.000186	0.006167	0.002638	0.000791	0.007908
3-Jul-2023	5.073950	5.070570	6.846020	1.608180	19.283699	0.623284	0.015159	0.162648	0.030542	0.001120	0.001365	0.070992	0.000180	0.006072	0.002570	0.000775	0.007752
4-Jul-2023	5.847300	5.134370	6.945070	1.621850	19.499300	0.635009	0.015414	0.165031	0.030945	0.001140	0.001375	0.071768	0.000183	0.006145	0.002607	0.000786	0.007861
5-Jul-2023	6.774243	5.133380	6.944990	1.615230	19.469567	0.638474	0.015534	0.166108	0.031087	0.001150	0.001371	0.072231	0.000183	0.006163	0.002613	0.000788	0.007876
6-Jul-2023	7.572177	5.161260	6.995650	1.615250	19.539266	0.646517	0.015691	0.167718	0.031167	0.001171	0.001369	0.072815	0.000185	0.006197	0.002635	0.000792	0.007924
7-Jul-2023	8.876583	5.194580	7.053750	1.618370	19.635314	0.654691	0.015845	0.169311	0.031220	0.001191	0.001368	0.073373	0.000187	0.006231	0.002658	0.000797	0.007974
8-Jul-2023	9.847023	5.200000	7.066690	1.617890	19.646871	0.656928	0.015880	0.169671	0.031150	0.001198	0.001365	0.073503	0.000188	0.006230	0.002662	0.000798	0.007981
9-Jul-2023	10.631967	5.253100	7.167270	1.625080	19.809070	0.668035	0.016006	0.170972	0.031129	0.001220	0.001364	0.073791	0.000192	0.006263	0.002695	0.000806	0.008061

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Jul-2023	11.104000	5.312090	7.279200	1.632910	19.988612	0.679909	0.016122	0.172120	0.031098	0.001243	0.001362	0.074001	0.000195	0.006299	0.002731	0.000815	0.008146
11-Jul-2023	12.332667	5.376640	7.402810	1.642290	20.188420	0.692456	0.016228	0.173150	0.031028	0.001266	0.001361	0.074140	0.000200	0.006333	0.002770	0.000824	0.008238
12-Jul-2023	12.478233	5.363710	7.380200	1.640730	20.149710	0.689987	0.016191	0.172740	0.030947	0.001262	0.001360	0.074082	0.000199	0.006319	0.002761	0.000821	0.008214
13-Jul-2023	11.812167	5.329920	7.347590	1.626430	20.006449	0.687135	0.016044	0.171112	0.030515	0.001259	0.001344	0.073304	0.000198	0.006259	0.002746	0.000815	0.008154
14-Jul-2023	11.910833	5.293900	7.309380	1.612100	19.857496	0.683918	0.015907	0.169620	0.030139	0.001253	0.001328	0.072571	0.000198	0.006202	0.002729	0.000809	0.008095
15-Jul-2023	12.048500	5.304890	7.337550	1.611790	19.883662	0.686939	0.015907	0.169597	0.030030	0.001259	0.001325	0.072470	0.000199	0.006199	0.002737	0.000811	0.008107
16-Jul-2023	12.752467	5.320160	7.370200	1.612890	19.926321	0.690338	0.015923	0.169743	0.029946	0.001266	0.001322	0.072414	0.000200	0.006202	0.002746	0.000813	0.008128
17-Jul-2023	14.168000	5.422770	7.534810	1.637600	20.284293	0.706397	0.016174	0.172375	0.030217	0.001296	0.001336	0.073339	0.000205	0.006294	0.002802	0.000828	0.008279
18-Jul-2023	14.772567	5.439470	7.567780	1.640200	20.336700	0.709805	0.016202	0.172683	0.030173	0.001302	0.001335	0.073380	0.000206	0.006299	0.002812	0.000830	0.008304
19-Jul-2023	15.004367	5.465530	7.620370	1.642560	20.411490	0.715689	0.016257	0.173261	0.030128	0.001313	0.001333	0.073434	0.000208	0.006313	0.002829	0.000834	0.008342
20-Jul-2023	15.767967	5.570360	7.805370	1.661420	20.750916	0.734748	0.016492	0.175737	0.030271	0.001348	0.001338	0.074043	0.000214	0.006392	0.002891	0.000850	0.008499
21-Jul-2023	16.180333	5.633650	7.922760	1.670940	20.948155	0.746827	0.016615	0.177001	0.030303	0.001369	0.001338	0.074257	0.000218	0.006435	0.002929	0.000859	0.008594
22-Jul-2023	16.001633	5.676440	7.998980	1.678770	21.087246	0.754633	0.016708	0.177989	0.030334	0.001383	0.001340	0.074500	0.000221	0.006465	0.002954	0.000866	0.008657
23-Jul-2023	16.254533	5.673350	7.994220	1.678430	21.078130	0.754181	0.016702	0.177943	0.030287	0.001383	0.001340	0.074502	0.000221	0.006459	0.002952	0.000865	0.008652
24-Jul-2023	16.385133	5.696930	8.034250	1.683580	21.158217	0.758247	0.016759	0.178560	0.030309	0.001391	0.001342	0.074697	0.000222	0.006477	0.002965	0.000869	0.008686
25-Jul-2023	14.716467	5.685140	8.036830	1.674090	21.089697	0.759228	0.016684	0.177754	0.030021	0.001393	0.001329	0.074145	0.000223	0.006442	0.002962	0.000867	0.008667
26-Jul-2023	13.847933	5.625570	7.962200	1.653700	20.856985	0.752458	0.016487	0.175645	0.029592	0.001380	0.001310	0.073163	0.000221	0.006363	0.002932	0.000858	0.008576
27-Jul-2023	13.906800	5.730850	8.132840	1.678060	21.220184	0.769310	0.016747	0.178392	0.029896	0.001410	0.001324	0.074084	0.000226	0.006458	0.002991	0.000873	0.008735
28-Jul-2023	13.089633	5.731720	8.149530	1.673470	21.203454	0.771343	0.016711	0.177995	0.029724	0.001413	0.001316	0.073746	0.000227	0.006442	0.002994	0.000874	0.008735
29-Jul-2023	12.506467	5.778150	8.235010	1.680960	21.350234	0.780015	0.016800	0.178911	0.029750	0.001428	0.001317	0.073912	0.000230	0.006473	0.003022	0.000881	0.008805
30-Jul-2023	13.305500	5.815720	8.308610	1.685780	21.463895	0.787574	0.016861	0.179541	0.029720	0.001441	0.001315	0.073952	0.000232	0.006493	0.003045	0.000886	0.008862
31-Jul-2023	13.685033	5.908020	8.473090	1.702340	21.762562	0.804007	0.017045	0.181447	0.029847	0.001470	0.001320	0.074374	0.000238	0.006561	0.003099	0.000900	0.009002
1-Aug-2023	14.675967	5.961710	8.581370	1.708270	21.921046	0.814986	0.017116	0.182159	0.029781	0.001488	0.001316	0.074326	0.000242	0.006586	0.003132	0.000908	0.009084
2-Aug-2023	14.690200	6.003580	8.656290	1.716330	22.058786	0.822268	0.017192	0.182938	0.029809	0.001501	0.001319	0.074532	0.000244	0.006614	0.003156	0.000915	0.009147
3-Aug-2023	14.508467	6.038030	8.715810	1.723560	22.174581	0.828079	0.017262	0.183664	0.029849	0.001511	0.001321	0.074764	0.000246	0.006639	0.003175	0.000920	0.009199
4-Aug-2023	15.034800	6.045850	8.741790	1.721360	22.185048	0.830833	0.017242	0.183420	0.029717	0.001516	0.001316	0.074543	0.000247	0.006631	0.003182	0.000921	0.009211
5-Aug-2023	14.951233	6.081320	8.814660	1.725070	22.288894	0.838044	0.017276	0.183727	0.029643	0.001529	0.001313	0.074509	0.000250	0.006645	0.003204	0.000926	0.009264
6-Aug-2023	14.944933	6.120290	8.880760	1.733740	22.421905	0.844307	0.017352	0.184505	0.029698	0.001541	0.001316	0.074800	0.000252	0.006674	0.003225	0.000932	0.009323
7-Aug-2023	15.106367	6.186560	8.988940	1.749380	22.651787	0.854594	0.017496	0.186003	0.029860	0.001560	0.001325	0.075372	0.000255	0.006730	0.003262	0.000942	0.009424
8-Aug-2023	15.265833	6.248270	9.089130	1.764160	22.866741	0.864050	0.017629	0.187388	0.030020	0.001577	0.001333	0.075912	0.000259	0.006783	0.003296	0.000952	0.009517
9-Aug-2023	15.470767	6.341340	9.253020	1.783660	23.179438	0.878910	0.017760	0.188663	0.030109	0.001605	0.001340	0.076426	0.000264	0.006846	0.003347	0.000966	0.009660
10-Aug-2023	16.060933	6.448560	9.443700	1.803250	23.527838	0.897248	0.017942	0.190483	0.030258	0.001637	0.001345	0.076909	0.000270	0.006924	0.003410	0.000982	0.009823
11-Aug-2023	15.905567	6.477050	9.505230	1.805950	23.610096	0.902763	0.017935	0.190332	0.030158	0.001647	0.001342	0.076791	0.000273	0.006930	0.003427	0.000987	0.009867
12-Aug-2023	15.185933	6.434970	9.458370	1.789540	23.437446	0.898244	0.017758	0.188382	0.029796	0.001638	0.001326	0.075946	0.000272	0.006869	0.003408	0.000980	0.009802
13-Aug-2023	14.970933	6.541770	9.633000	1.813690	23.803575	0.914891	0.017988	0.190731	0.030090	0.001669	0.001339	0.076815	0.000277	0.006963	0.003467	0.000996	0.009963
14-Aug-2023	14.513800	6.562480	9.669750	1.818010	23.873078	0.918039	0.018006	0.190889	0.030092	0.001675	0.001340	0.076929	0.000278	0.006976	0.003479	0.000999	0.009994
15-Aug-2023	14.261800	6.591120	9.724470	1.821970	23.960899	0.923075	0.018028	0.191036	0.030072	0.001685	0.001339	0.076994	0.000280	0.006993	0.003496	0.001004	0.010037
16-Aug-2023	14.500333	6.627440	9.786840	1.829110	24.080993	0.928936	0.018089	0.191631	0.030138	0.001696	0.001342	0.077224	0.000282	0.007022	0.003517	0.001009	0.010091
17-Aug-2023	14.279633	6.673550	9.870900	1.836930	24.228332	0.936741	0.018146	0.192145	0.030166	0.001710	0.001343	0.077396	0.000285	0.007053	0.003544	0.001016	0.010160
18-Aug-2023	14.665633	6.754340	10.000300	1.857500	24.514772	0.948193	0.018294	0.193637	0.030360	0.001733	0.001355	0.078142	0.000289	0.007121	0.003587	0.001028	0.010283
19-Aug-2023	12.380600	6.622250	9.814450	1.818310	24.023559	0.930337	0.017888	0.189287	0.029657	0.001700	0.001324	0.076391	0.000284	0.006971	0.003519	0.001008	0.010081
20-Aug-2023	12.052733	6.682080	9.912100	1.832400	24.230977	0.939274	0.018001	0.190427	0.029801	0.001717	0.001332	0.076902	0.000287	0.007022	0.003551	0.001017	0.010172
21-Aug-2023	11.903600	6.782340	10.072100	1.857040	24.582794	0.954023	0.018209	0.192564	0.030089	0.001745	0.001346	0.077829	0.000292	0.007111	0.003606	0.001032	0.010324
22-Aug-2023	11.512100	6.807570	10.113800	1.863130	24.670872	0.957677	0.018249	0.192950	0.030135	0.001752	0.001349	0.078034	0.000293	0.007131	0.003620	0.001036	0.010362
23-Aug-2023	11.205833	6.873000	10.230300	1.876620	24.889802	0.967765	0.018312	0.193496	0.030176	0.001772	0.001353	0.078388	0.000297	0.007173	0.003656	0.001046	0.010462
24-Aug-2023	11.381833	6.976580	10.413700	1.895270	25.225242	0.985431	0.018487	0.195226	0.030332	0.001805	0.001359	0.078905	0.000303	0.007251	0.003717	0.001062	0.010618
25-Aug-2023	10.202767	7.032970	10.510800	1.907030	25.414476	0.994248	0.018570	0.196031	0.030416	0.001822	0.001363	0.079273	0.000306	0.007293	0.003749	0.001070	0.010704
26-Aug-2023	10.006967	7.050420	10.540400	1.911240	25.475385	0.996626	0.018583	0.196146	0.030423	0.001827	0.001365	0.079427	0.000307	0.007305	0.003758	0.001073	0.010730
27-Aug-2023	10.199267	7.097990	10.619500	1.922630	25.641071	1.003520	0.018652	0.196814	0.030492	0.001842	0.001371	0.079843	0.000310	0.007341	0.003784	0.001080	0.010801
28-Aug-2023	8.524287	6.970010	10.437200	1.885340	25.167945	0.985973	0.018264	0.192678	0.029829	0.001811	0.001341	0.078218	0.000305	0.007197	0.003717	0.001061	0.010606
29-Aug-2023	8.189127	6.997410	10.486000	1.890850	25.259053	0.990132	0.018286	0.192861	0.029837	0.001820	0.001343	0.078384	0.000306	0.007215	0.003732	0.001065	0.010647

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30-Aug-2023	8.456720	7.059360	10.586400	1.905940	25.475883	0.999100	0.018395	0.193952	0.029979	0.001837	0.001351	0.078932	0.000310	0.007267	0.003766	0.001074	0.010741
31-Aug-2023	9.273753	7.119430	10.684800	1.920180	25.684518	1.008030	0.018504	0.195049	0.030114	0.001854	0.001359	0.079442	0.000313	0.007317	0.003799	0.001083	0.010832
1-Sep-2023	8.914157	7.103070	10.670900	1.912780	25.613194	1.006410	0.018407	0.193965	0.029916	0.001852	0.001350	0.079028	0.000313	0.007287	0.003791	0.001081	0.010807
2-Sep-2023	8.911233	7.158580	10.769000	1.924020	25.798089	1.015380	0.018491	0.194783	0.030000	0.001869	0.001355	0.079385	0.000316	0.007328	0.003823	0.001089	0.010890
3-Sep-2023	8.637803	7.179650	10.808500	1.926990	25.862931	1.018950	0.018498	0.194798	0.029965	0.001876	0.001354	0.079399	0.000317	0.007338	0.003835	0.001092	0.010922
4-Sep-2023	8.872530	7.233660	10.899600	1.938790	26.046386	1.027370	0.018595	0.195777	0.030081	0.001892	0.001359	0.079798	0.000320	0.007383	0.003866	0.001100	0.011004
5-Sep-2023	8.218570	7.236280	10.909600	1.937740	26.048604	1.028140	0.018567	0.195446	0.030009	0.001894	0.001357	0.079684	0.000320	0.007377	0.003868	0.001101	0.011007
6-Sep-2023	7.480463	7.239700	10.922800	1.936200	26.050803	1.029330	0.018543	0.195148	0.029937	0.001896	0.001353	0.079534	0.000321	0.007372	0.003871	0.001101	0.011012
7-Sep-2023	7.346710	7.268370	10.976100	1.940850	26.141540	1.034350	0.018578	0.195472	0.029945	0.001905	0.001354	0.079623	0.000323	0.007390	0.003888	0.001106	0.011056
8-Sep-2023	6.916557	7.304980	11.042200	1.947340	26.259681	1.040600	0.018631	0.195990	0.029979	0.001917	0.001355	0.079779	0.000325	0.007415	0.003910	0.001111	0.011111
9-Sep-2023	6.716087	7.355310	11.132100	1.956550	26.423282	1.049150	0.018710	0.196759	0.030037	0.001932	0.001358	0.080017	0.000328	0.007451	0.003939	0.001119	0.011187
10-Sep-2023	6.638323	7.384560	11.183600	1.962130	26.519298	1.054040	0.018758	0.197234	0.030073	0.001941	0.001359	0.080173	0.000330	0.007473	0.003956	0.001123	0.011231
11-Sep-2023	5.919427	7.425230	11.261300	1.967870	26.644488	1.061530	0.018806	0.197677	0.030068	0.001955	0.001359	0.080263	0.000332	0.007497	0.003981	0.001129	0.011292
12-Sep-2023	5.124710	7.428350	11.271800	1.966890	26.648243	1.062580	0.018795	0.197531	0.030017	0.001957	0.001356	0.080171	0.000333	0.007494	0.003983	0.001130	0.011297
13-Sep-2023	5.054547	7.492890	11.384900	1.979440	26.861080	1.073390	0.018907	0.198659	0.030121	0.001977	0.001360	0.080542	0.000337	0.007543	0.004020	0.001139	0.011394
14-Sep-2023	4.110290	7.431440	11.299200	1.960680	26.630386	1.065360	0.018724	0.196696	0.029785	0.001962	0.001345	0.079699	0.000334	0.007473	0.003989	0.001130	0.011300
15-Sep-2023	3.617570	7.447310	11.336100	1.960810	26.670549	1.069010	0.018722	0.196632	0.029717	0.001968	0.001342	0.079581	0.000336	0.007476	0.004000	0.001132	0.011324
16-Sep-2023	2.757540	7.403020	11.281800	1.944910	26.494480	1.064100	0.018569	0.194972	0.029405	0.001959	0.001327	0.078804	0.000334	0.007418	0.003979	0.001126	0.011256
17-Sep-2023	2.539073	7.433770	11.339300	1.949610	26.590618	1.069670	0.018613	0.195390	0.029419	0.001969	0.001327	0.078888	0.000336	0.007438	0.003997	0.001130	0.011303
18-Sep-2023	2.370413	7.454130	11.383300	1.950790	26.646316	1.074030	0.018623	0.195453	0.029369	0.001976	0.001324	0.078803	0.000338	0.007445	0.004011	0.001133	0.011333
19-Sep-2023	1.918353	7.466630	11.415200	1.949900	26.673863	1.077280	0.018616	0.195329	0.029291	0.001982	0.001320	0.078631	0.000339	0.007445	0.004020	0.001135	0.011352
20-Sep-2023	1.738830	7.545790	11.550000	1.966220	26.938732	1.090190	0.018769	0.196888	0.029460	0.002005	0.001327	0.079143	0.000344	0.007509	0.004065	0.001147	0.011472
21-Sep-2023	1.866347	7.576570	11.605700	1.971970	27.039268	1.095430	0.018814	0.197326	0.029483	0.002015	0.001328	0.079281	0.000345	0.007530	0.004083	0.001152	0.011518
22-Sep-2023	2.182017	7.609920	11.671900	1.975840	27.138479	1.101940	0.018851	0.197664	0.029463	0.002026	0.001326	0.079269	0.000348	0.007547	0.004103	0.001157	0.011569
23-Sep-2023	2.257867	7.622920	11.713800	1.971820	27.154386	1.106400	0.018821	0.197272	0.029304	0.002033	0.001317	0.078876	0.000349	0.007539	0.004115	0.001159	0.011588
24-Sep-2023	1.951063	7.483520	11.518500	1.929520	26.632113	1.088340	0.018422	0.193020	0.028585	0.001999	0.001283	0.076985	0.000344	0.007383	0.004043	0.001138	0.011375
25-Sep-2023	1.578910	7.392790	11.392300	1.901780	26.291327	1.076660	0.018157	0.190203	0.028103	0.001977	0.001261	0.075736	0.000341	0.007280	0.003997	0.001124	0.011237
26-Sep-2023	1.466570	7.379530	11.380500	1.895610	26.232808	1.075700	0.018099	0.189556	0.027966	0.001974	0.001254	0.075397	0.000340	0.007258	0.003991	0.001122	0.011217
27-Sep-2023	1.215237	7.474250	11.539900	1.915710	26.552096	1.090980	0.018290	0.191513	0.028190	0.002002	0.001264	0.076051	0.000346	0.007338	0.004045	0.001136	0.011360
28-Sep-2023	1.298037	7.563950	11.689100	1.935410	26.857202	1.105250	0.018477	0.193434	0.028423	0.002027	0.001273	0.076707	0.000350	0.007415	0.004096	0.001150	0.011497
29-Sep-2023	1.361317	7.729050	11.965200	1.971040	27.416181	1.131700	0.018817	0.196923	0.028837	0.002074	0.001291	0.077876	0.000359	0.007555	0.004189	0.001175	0.011747
30-Sep-2023	1.183170	7.774370	12.044000	1.979820	27.565501	1.139280	0.018900	0.197754	0.028917	0.002088	0.001294	0.078129	0.000362	0.007591	0.004215	0.001182	0.011816
1-Oct-2023	0.801439	7.816590	12.125500	1.984930	27.691967	1.147460	0.018962	0.198351	0.028933	0.002101	0.001293	0.078143	0.000364	0.007618	0.004242	0.001188	0.011880
2-Oct-2023	0.896332	7.797950	12.103900	1.977790	27.616020	1.145570	0.018896	0.197637	0.028795	0.002097	0.001286	0.077775	0.000364	0.007592	0.004233	0.001185	0.011851
3-Oct-2023	1.036407	7.788780	12.096700	1.973300	27.574633	1.144980	0.018852	0.197155	0.028691	0.002096	0.001281	0.077515	0.000364	0.007576	0.004229	0.001184	0.011837
4-Oct-2023	1.307680	7.723910	11.998300	1.956180	27.342153	1.135690	0.018687	0.195430	0.028429	0.002079	0.001269	0.076813	0.000361	0.007511	0.004194	0.001174	0.011739
5-Oct-2023	1.530863	7.782500	12.092400	1.970130	27.545898	1.144620	0.018819	0.196804	0.028615	0.002095	0.001277	0.077324	0.000364	0.007564	0.004227	0.001183	0.011828
6-Oct-2023	2.551217	7.696920	11.961100	1.948000	27.241073	1.132200	0.018607	0.194579	0.028283	0.002072	0.001262	0.076435	0.000360	0.007479	0.004180	0.001170	0.011698
7-Oct-2023	2.184997	7.704490	11.974200	1.949540	27.266317	1.133450	0.018620	0.194723	0.028298	0.002074	0.001263	0.076480	0.000360	0.007485	0.004185	0.001171	0.011710
8-Oct-2023	1.001613	7.721500	12.002600	1.953240	27.324028	1.136160	0.018655	0.195077	0.028339	0.002079	0.001265	0.076603	0.000361	0.007499	0.004194	0.001174	0.011736
9-Oct-2023	0.821761	7.706860	11.979100	1.949770	27.273182	1.133930	0.018622	0.194736	0.028293	0.002075	0.001263	0.076475	0.000361	0.007486	0.004186	0.001171	0.011714
10-Oct-2023	0.602771	7.660870	11.908900	1.937760	27.108888	1.127300	0.018506	0.193525	0.028111	0.002063	0.001255	0.075991	0.000358	0.007440	0.004161	0.001164	0.011644
11-Oct-2023	0.467787	7.552380	11.740300	1.910440	26.725485	1.111310	0.018244	0.190793	0.027713	0.002034	0.001237	0.074919	0.000353	0.007334	0.004102	0.001148	0.011479
12-Oct-2023	0.541115	7.485390	11.636300	1.893520	26.488534	1.101450	0.018081	0.189101	0.027467	0.002016	0.001226	0.074255	0.000350	0.007269	0.004066	0.001138	0.011378
13-Oct-2023	0.680498	7.452130	11.584700	1.885070	26.370687	1.096580	0.018001	0.188255	0.027344	0.002007	0.001220	0.073923	0.000349	0.007237	0.004048	0.001133	0.011327
14-Oct-2023	0.506343	7.401870	11.506500	1.872420	26.193095	1.089170	0.017879	0.186990	0.027160	0.001993	0.001212	0.073428	0.000346	0.007188	0.004021	0.001125	0.011251
15-Oct-2023	0.415510	7.403920	11.509500	1.873020	26.200685	1.089450	0.017885	0.187051	0.027169	0.001994	0.001213	0.073453	0.000346	0.007190	0.004022	0.001125	0.011254
16-Oct-2023	0.376299	7.389460	11.486900	1.869450	26.149877	1.087290	0.017850	0.186694	0.027118	0.001990	0.001210	0.073316	0.000346	0.007176	0.004014	0.001123	0.011233
17-Oct-2023	0.356101	7.433450	11.555300	1.880590	26.305594	1.093770	0.017956	0.187806	0.027280	0.002002	0.001218	0.073753	0.000348	0.007219	0.004038	0.001130	0.011299
18-Oct-2023	0.358066	7.501450	11.661000	1.897790	26.546220	1.103770	0.018120	0.189524	0.027529	0.002020	0.001229	0.074428	0.000351	0.007285	0.004075	0.001140	0.011403
19-Oct-2023	0.365578	7.529550	11.704600	1.904910	26.645706	1.107900	0.018188	0.190235	0.027632	0.002027	0.001233	0.074708	0.000352	0.007312	0.004090	0.001145	0.011446

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
20-Oct-2023	0.361515	7.546290	11.730700	1.909150	26.704966	1.110370	0.018229	0.190658	0.027694	0.002032	0.001236	0.074874	0.000353	0.007328	0.004099	0.001147	0.011471
21-Oct-2023	0.360414	7.576490	11.777600	1.916790	26.811837	1.114810	0.018302	0.191421	0.027805	0.002040	0.001241	0.075174	0.000355	0.007358	0.004115	0.001152	0.011517
22-Oct-2023	0.361274	7.612930	11.834200	1.926010	26.940795	1.120170	0.018390	0.192342	0.027938	0.002050	0.001247	0.075536	0.000356	0.007393	0.004135	0.001157	0.011572
23-Oct-2023	0.362645	7.651970	11.894900	1.935890	27.078964	1.125910	0.018484	0.193328	0.028082	0.002060	0.001253	0.075923	0.000358	0.007431	0.004156	0.001163	0.011632
24-Oct-2023	0.363890	7.693840	11.960000	1.946480	27.227123	1.132080	0.018585	0.194386	0.028235	0.002072	0.001260	0.076338	0.000360	0.007472	0.004179	0.001170	0.011695
25-Oct-2023	0.364380	7.740140	12.032000	1.958200	27.390997	1.138890	0.018697	0.195556	0.028405	0.002084	0.001268	0.076798	0.000362	0.007516	0.004204	0.001177	0.011766
26-Oct-2023	0.364827	7.799640	12.124500	1.973250	27.601545	1.147640	0.018841	0.197059	0.028624	0.002100	0.001278	0.077388	0.000365	0.007574	0.004237	0.001186	0.011856
27-Oct-2023	0.365367	7.823260	12.161200	1.979230	27.685149	1.151120	0.018898	0.197656	0.028710	0.002107	0.001282	0.077623	0.000366	0.007597	0.004249	0.001189	0.011892
28-Oct-2023	0.365707	7.854080	12.209100	1.987030	27.794227	1.155650	0.018972	0.198435	0.028824	0.002115	0.001287	0.077929	0.000368	0.007627	0.004266	0.001194	0.011939
29-Oct-2023	0.367192	7.909150	12.294600	2.000980	27.989183	1.163750	0.019106	0.199829	0.029027	0.002130	0.001296	0.078476	0.000370	0.007681	0.004296	0.001202	0.012023
30-Oct-2023	0.366426	7.940930	12.344100	2.009020	28.101647	1.168420	0.019182	0.200631	0.029143	0.002138	0.001301	0.078791	0.000372	0.007712	0.004313	0.001207	0.012071
31-Oct-2023	0.366039	7.975580	12.397900	2.017780	28.224241	1.173520	0.019266	0.201506	0.029270	0.002148	0.001306	0.079135	0.000373	0.007745	0.004332	0.001212	0.012124
1-Nov-2023	0.366202	8.033780	12.488400	2.032510	28.430225	1.182090	0.019407	0.202977	0.029484	0.002163	0.001316	0.079713	0.000376	0.007802	0.004364	0.001221	0.012212
2-Nov-2023	0.366255	8.076610	12.555000	2.043350	28.581810	1.188390	0.019510	0.204060	0.029641	0.002175	0.001323	0.080138	0.000378	0.007843	0.004387	0.001228	0.012277
3-Nov-2023	0.366105	8.109130	12.605500	2.051570	28.696863	1.193170	0.019589	0.204881	0.029760	0.002183	0.001328	0.080460	0.000379	0.007875	0.004405	0.001233	0.012327
4-Nov-2023	0.366202	8.166980	12.695400	2.066210	28.901602	1.201680	0.019728	0.206342	0.029973	0.002199	0.001338	0.081034	0.000382	0.007931	0.004436	0.001241	0.012415
5-Nov-2023	0.366458	8.205880	12.755900	2.076050	29.039256	1.207410	0.019822	0.207325	0.030115	0.002210	0.001344	0.081420	0.000384	0.007969	0.004457	0.001247	0.012474
6-Nov-2023	0.366669	8.237010	12.804300	2.083930	29.149438	1.211990	0.019898	0.208112	0.030230	0.002218	0.001349	0.081730	0.000385	0.007999	0.004474	0.001252	0.012521
7-Nov-2023	0.366957	8.286960	12.881900	2.096570	29.326214	1.219340	0.020018	0.209374	0.030413	0.002231	0.001358	0.082225	0.000388	0.008048	0.004501	0.001260	0.012597
8-Nov-2023	0.367153	8.326000	12.942600	2.106450	29.464383	1.225080	0.020113	0.210361	0.030556	0.002242	0.001364	0.082613	0.000390	0.008085	0.004522	0.001266	0.012656
9-Nov-2023	0.367292	8.371880	13.013900	2.118060	29.626755	1.231830	0.020223	0.211520	0.030725	0.002254	0.001371	0.083069	0.000392	0.008130	0.004547	0.001273	0.012726
10-Nov-2023	0.367464	8.420870	13.090100	2.130460	29.800147	1.239040	0.020342	0.212758	0.030904	0.002267	0.001379	0.083555	0.000394	0.008178	0.004574	0.001280	0.012801
11-Nov-2023	0.367526	8.464120	13.157300	2.141400	29.953193	1.245400	0.020446	0.213851	0.031063	0.002279	0.001387	0.083984	0.000396	0.008220	0.004597	0.001287	0.012866
12-Nov-2023	0.367524	8.505070	13.221000	2.151760	30.098107	1.251430	0.020545	0.214886	0.031214	0.002290	0.001393	0.084391	0.000398	0.008259	0.004620	0.001293	0.012929
13-Nov-2023	0.367525	8.558990	13.304800	2.165400	30.288915	1.259360	0.020675	0.216248	0.031411	0.002305	0.001402	0.084926	0.000400	0.008312	0.004649	0.001301	0.013010
14-Nov-2023	0.367550	8.613520	13.389500	2.179200	30.481905	1.267380	0.020807	0.217626	0.031612	0.002319	0.001411	0.085467	0.000403	0.008365	0.004679	0.001309	0.013093
15-Nov-2023	0.367577	8.675250	13.485500	2.194820	30.700368	1.276460	0.020956	0.219186	0.031838	0.002336	0.001421	0.086079	0.000406	0.008425	0.004712	0.001319	0.013187
16-Nov-2023	0.367572	8.727180	13.566200	2.207950	30.884107	1.284110	0.021082	0.220498	0.032029	0.002350	0.001430	0.086595	0.000408	0.008475	0.004740	0.001327	0.013266
17-Nov-2023	0.367591	8.794840	13.671400	2.225080	31.123595	1.294060	0.021245	0.222207	0.032277	0.002368	0.001441	0.087266	0.000412	0.008541	0.004777	0.001337	0.013369
18-Nov-2023	0.367606	8.854280	13.763800	2.240120	31.333951	1.302810	0.021389	0.223710	0.032495	0.002384	0.001450	0.087856	0.000414	0.008599	0.004809	0.001346	0.013459
19-Nov-2023	0.367628	8.915790	13.859400	2.255680	31.551618	1.311850	0.021537	0.225264	0.032721	0.002401	0.001461	0.088467	0.000417	0.008658	0.004843	0.001355	0.013553
20-Nov-2023	0.367623	8.955400	13.921000	2.265700	31.691786	1.317680	0.021633	0.226264	0.032866	0.002411	0.001467	0.088860	0.000419	0.008697	0.004864	0.001361	0.013613
21-Nov-2023	0.367622	8.999820	13.990000	2.276940	31.848989	1.324220	0.021740	0.227387	0.033029	0.002423	0.001474	0.089300	0.000421	0.008740	0.004888	0.001368	0.013681
22-Nov-2023	0.367623	9.058450	14.081200	2.291770	32.056459	1.332850	0.021882	0.228868	0.033245	0.002439	0.001484	0.089882	0.000424	0.008797	0.004920	0.001377	0.013770
23-Nov-2023	0.367622	9.109660	14.160800	2.304730	32.237699	1.340380	0.022006	0.230162	0.033433	0.002453	0.001492	0.090390	0.000426	0.008847	0.004948	0.001385	0.013848
24-Nov-2023	0.367620	9.158160	14.236200	2.317000	32.409332	1.347520	0.022123	0.231387	0.033611	0.002466	0.001500	0.090872	0.000429	0.008894	0.004974	0.001392	0.013921
25-Nov-2023	0.367622	9.079440	14.113800	2.297080	32.130737	1.335940	0.021933	0.229398	0.033322	0.002445	0.001487	0.090090	0.000425	0.008817	0.004932	0.001380	0.013802
26-Nov-2023	0.367621	9.128510	14.190100	2.309500	32.304410	1.343160	0.022051	0.230638	0.033502	0.002458	0.001495	0.090577	0.000427	0.008865	0.004958	0.001388	0.013876
27-Nov-2023	0.367621	9.174560	14.261700	2.321150	32.467372	1.349930	0.022162	0.231802	0.033671	0.002470	0.001503	0.091034	0.000429	0.008910	0.004983	0.001395	0.013946
28-Nov-2023	0.367621	9.218110	14.329400	2.332170	32.621497	1.356340	0.022268	0.232902	0.033831	0.002482	0.001510	0.091466	0.000431	0.008952	0.005007	0.001401	0.014012
29-Nov-2023	0.367622	9.263760	14.400300	2.343710	32.783007	1.363060	0.022378	0.234055	0.033998	0.002494	0.001518	0.091919	0.000433	0.008996	0.005032	0.001408	0.014082
30-Nov-2023	0.367622	9.311160	14.474000	2.355710	32.950780	1.370030	0.022492	0.235253	0.034172	0.002507	0.001525	0.092390	0.000436	0.009042	0.005058	0.001415	0.014154
1-Dec-2023	0.367622	9.358040	14.546900	2.367570	33.116679	1.376930	0.022606	0.236437	0.034344	0.002520	0.001533	0.092855	0.000438	0.009088	0.005083	0.001423	0.014225
2-Dec-2023	0.367623	9.406350	14.622000	2.379790	33.287631	1.384040	0.022722	0.237658	0.034521	0.002533	0.001541	0.093334	0.000440	0.009135	0.005109	0.001430	0.014299
3-Dec-2023	0.367624	9.455550	14.698400	2.392240	33.461753	1.391280	0.022841	0.238901	0.034702	0.002546	0.001549	0.093822	0.000442	0.009182	0.005136	0.001437	0.014373
4-Dec-2023	0.367624	9.506590	14.777800	2.405150	33.642363	1.398790	0.022964	0.240191	0.034889	0.002560	0.001557	0.094329	0.000445	0.009232	0.005164	0.001445	0.014451
5-Dec-2023	0.367625	9.559680	14.860300	2.418580	33.830233	1.406600	0.023093	0.241532	0.035084	0.002574	0.001566	0.094855	0.000447	0.009284	0.005193	0.001453	0.014532
6-Dec-2023	0.367625	9.609130	14.937200	2.431090	34.005226	1.413870	0.023212	0.242781	0.035266	0.002587	0.001574	0.095346	0.000450	0.009332	0.005219	0.001461	0.014607
7-Dec-2023	0.367625	9.658800	15.014400	2.443660	34.181015	1.421180	0.023332	0.244036	0.035448	0.002601	0.001582	0.095839	0.000452	0.009380	0.005246	0.001468	0.014682
8-Dec-2023	0.367625	9.713070	15.098800	2.457390	34.373068	1.429170	0.023463	0.245407	0.035647	0.002615	0.001591	0.096378	0.000454	0.009433	0.005276	0.001476	0.014765
9-Dec-2023	0.367625	9.775500	15.195800	2.473180	34.593979	1.438350	0.023614	0.246985	0.035876	0.002632	0.001601	0.096997	0.000457	0.009493	0.005310	0.001486	0.014860

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
10-Dec-2023	0.367626	9.827260	15.276300	2.486280	34.777169	1.445970	0.023739	0.248292	0.036066	0.002646	0.001610	0.097511	0.000460	0.009543	0.005338	0.001494	0.014938
11-Dec-2023	0.367626	9.880060	15.358300	2.499640	34.964027	1.453740	0.023867	0.249626	0.036260	0.002660	0.001619	0.098034	0.000462	0.009595	0.005367	0.001502	0.015019
12-Dec-2023	0.367626	9.933090	15.440800	2.513050	35.151666	1.461540	0.023995	0.250966	0.036455	0.002675	0.001627	0.098561	0.000465	0.009646	0.005395	0.001510	0.015099
13-Dec-2023	0.367626	9.988980	15.527700	2.527190	35.349451	1.469760	0.024130	0.252379	0.036660	0.002690	0.001636	0.099115	0.000467	0.009700	0.005426	0.001518	0.015184
14-Dec-2023	0.367626	10.047700	15.619000	2.542060	35.557310	1.478410	0.024272	0.253863	0.036875	0.002705	0.001646	0.099698	0.000470	0.009758	0.005458	0.001527	0.015273
15-Dec-2023	0.367626	10.106000	15.709500	2.556800	35.763584	1.486980	0.024412	0.255335	0.037089	0.002721	0.001656	0.100276	0.000473	0.009814	0.005489	0.001536	0.015362
16-Dec-2023	0.367626	10.166200	15.803100	2.572020	35.976580	1.495840	0.024558	0.256856	0.037310	0.002737	0.001665	0.100873	0.000476	0.009873	0.005522	0.001545	0.015454
17-Dec-2023	0.367626	10.222900	15.891300	2.586380	36.177294	1.504180	0.024695	0.258289	0.037518	0.002753	0.001675	0.101436	0.000478	0.009928	0.005553	0.001554	0.015540
18-Dec-2023	0.367626	10.249500	15.932600	2.593100	36.271387	1.508090	0.024759	0.258960	0.037616	0.002760	0.001679	0.101700	0.000480	0.009953	0.005567	0.001558	0.015580
19-Dec-2023	0.367626	10.302200	16.014500	2.606430	36.457872	1.515840	0.024886	0.260291	0.037809	0.002774	0.001688	0.102223	0.000482	0.010005	0.005596	0.001566	0.015660
20-Dec-2023	0.367626	10.354900	16.096500	2.619770	36.644398	1.523600	0.025014	0.261624	0.038003	0.002788	0.001696	0.102746	0.000485	0.010056	0.005624	0.001574	0.015740
21-Dec-2023	0.367626	10.403100	16.171400	2.631970	36.814993	1.530700	0.025130	0.262842	0.038180	0.002801	0.001704	0.103224	0.000487	0.010103	0.005651	0.001581	0.015814
22-Dec-2023	0.367626	10.455600	16.252900	2.645240	37.000732	1.538420	0.025257	0.264167	0.038372	0.002815	0.001713	0.103745	0.000489	0.010154	0.005679	0.001589	0.015893
23-Dec-2023	0.367626	10.527000	16.364000	2.663310	37.253430	1.548930	0.025429	0.265972	0.038634	0.002835	0.001724	0.104454	0.000493	0.010223	0.005718	0.001600	0.016002
24-Dec-2023	0.367626	10.574100	16.437300	2.675240	37.420166	1.555860	0.025543	0.267163	0.038807	0.002847	0.001732	0.104921	0.000495	0.010269	0.005744	0.001607	0.016074
25-Dec-2023	0.367626	10.618600	16.506400	2.686490	37.577610	1.562410	0.025651	0.268286	0.038970	0.002859	0.001740	0.105363	0.000497	0.010312	0.005768	0.001614	0.016141
26-Dec-2023	0.367626	10.680600	16.602800	2.702180	37.797035	1.571530	0.025800	0.269853	0.039198	0.002876	0.001750	0.105978	0.000500	0.010372	0.005801	0.001624	0.016236
27-Dec-2023	0.367626	10.744600	16.702300	2.718380	38.023555	1.580950	0.025955	0.271471	0.039433	0.002893	0.001760	0.106613	0.000503	0.010434	0.005836	0.001633	0.016333
28-Dec-2023	0.367626	10.805900	16.797600	2.733880	38.240450	1.589970	0.026103	0.273019	0.039658	0.002910	0.001770	0.107221	0.000506	0.010494	0.005869	0.001643	0.016426
29-Dec-2023	0.367626	10.853700	16.871800	2.745960	38.409552	1.597000	0.026219	0.274226	0.039833	0.002922	0.001778	0.107695	0.000508	0.010540	0.005895	0.001650	0.016499
30-Dec-2023	0.367626	10.910100	16.959500	2.760230	38.609147	1.605290	0.026355	0.275650	0.040040	0.002938	0.001787	0.108255	0.000511	0.010595	0.005926	0.001658	0.016584
31-Dec-2023	0.367626	10.987100	17.079200	2.779720	38.881676	1.616630	0.026541	0.277597	0.040323	0.002958	0.001800	0.109019	0.000514	0.010670	0.005968	0.001670	0.016701
1-Jan-2024	0.367626	11.042800	17.165800	2.793810	39.078781	1.624820	0.026675	0.279004	0.040527	0.002973	0.001809	0.109572	0.000517	0.010724	0.005998	0.001679	0.016786
2-Jan-2024	0.367626	11.099600	17.254200	2.808190	39.279828	1.633190	0.026813	0.280440	0.040736	0.002989	0.001818	0.110136	0.000519	0.010779	0.006029	0.001687	0.016873
3-Jan-2024	0.367626	11.166500	17.358100	2.825110	39.516553	1.643030	0.026974	0.282130	0.040981	0.003007	0.001829	0.110799	0.000523	0.010844	0.006065	0.001697	0.016974
4-Jan-2024	0.367626	11.212200	17.429100	2.836660	39.678229	1.649740	0.027084	0.283283	0.041149	0.003019	0.001837	0.111252	0.000525	0.010888	0.006090	0.001704	0.017044
5-Jan-2024	0.367626	11.266000	17.512700	2.850270	39.868614	1.657660	0.027214	0.284643	0.041346	0.003033	0.001846	0.111786	0.000527	0.010941	0.006119	0.001713	0.017125
6-Jan-2024	0.367626	11.331500	17.614600	2.866860	40.100485	1.667310	0.027373	0.286299	0.041587	0.003051	0.001856	0.112437	0.000530	0.011004	0.006155	0.001722	0.017225
7-Jan-2024	0.367626	11.398700	17.719000	2.883850	40.338248	1.677190	0.027535	0.287996	0.041833	0.003069	0.001867	0.113103	0.000533	0.011069	0.006191	0.001733	0.017327
8-Jan-2024	0.367626	11.441200	17.785100	2.894600	40.488639	1.683440	0.027638	0.289069	0.041989	0.003081	0.001874	0.113525	0.000535	0.011111	0.006215	0.001739	0.017392
9-Jan-2024	0.367626	11.499900	17.876400	2.909460	40.696407	1.692080	0.027780	0.290553	0.042205	0.003096	0.001884	0.114107	0.000538	0.011168	0.006246	0.001748	0.017481
10-Jan-2024	0.367626	11.578700	17.998900	2.929390	40.975242	1.703680	0.027970	0.292544	0.042494	0.003118	0.001897	0.114889	0.000542	0.011244	0.006289	0.001760	0.017601
11-Jan-2024	0.367626	11.663800	18.131100	2.950920	41.276397	1.716190	0.028175	0.294694	0.042806	0.003141	0.001911	0.115734	0.000546	0.011327	0.006335	0.001773	0.017730
12-Jan-2024	0.367626	11.678500	18.154000	2.954640	41.328422	1.718360	0.028211	0.295065	0.042860	0.003145	0.001913	0.115879	0.000546	0.011341	0.006343	0.001775	0.017752
13-Jan-2024	0.367626	11.731800	18.236800	2.968120	41.517023	1.726200	0.028340	0.296412	0.043056	0.003159	0.001922	0.116408	0.000549	0.011393	0.006372	0.001783	0.017833
14-Jan-2024	0.367626	11.801000	18.344300	2.985620	41.761880	1.736380	0.028507	0.298159	0.043310	0.003178	0.001933	0.117094	0.000552	0.011460	0.006410	0.001794	0.017939
15-Jan-2024	0.367626	11.855300	18.428800	2.999370	41.954090	1.744370	0.028638	0.299532	0.043509	0.003192	0.001942	0.117634	0.000555	0.011513	0.006439	0.001802	0.018021
16-Jan-2024	0.367626	11.916800	18.524400	3.014930	42.171731	1.753420	0.028787	0.301086	0.043735	0.003209	0.001952	0.118244	0.000558	0.011573	0.006473	0.001811	0.018115
17-Jan-2024	0.367626	11.975300	18.615300	3.029720	42.378711	1.762030	0.028928	0.302564	0.043949	0.003224	0.001962	0.118824	0.000560	0.011629	0.006505	0.001820	0.018204
18-Jan-2024	0.367626	12.045300	18.724200	3.047450	42.626513	1.772330	0.029097	0.304334	0.044207	0.003243	0.001973	0.119519	0.000564	0.011697	0.006543	0.001831	0.018310
19-Jan-2024	0.367626	12.098500	18.806900	3.060900	42.814741	1.780160	0.029226	0.305678	0.044402	0.003258	0.001982	0.120047	0.000566	0.011749	0.006572	0.001839	0.018391
20-Jan-2024	0.367626	12.163500	18.907900	3.077340	43.044746	1.789720	0.029383	0.307319	0.044640	0.003275	0.001993	0.120692	0.000569	0.011812	0.006607	0.001849	0.018490
21-Jan-2024	0.367626	12.224300	19.002500	3.092740	43.259980	1.798670	0.029530	0.308856	0.044863	0.003292	0.002003	0.121295	0.000572	0.011871	0.006640	0.001858	0.018582
22-Jan-2024	0.367626	12.293300	19.109700	3.110190	43.504133	1.808820	0.029696	0.310600	0.045117	0.003310	0.002014	0.121980	0.000575	0.011938	0.006677	0.001869	0.018687
23-Jan-2024	0.367626	12.355400	19.206200	3.125890	43.723849	1.817950	0.029846	0.312167	0.045344	0.003327	0.002024	0.122596	0.000578	0.011999	0.006711	0.001878	0.018781
24-Jan-2024	0.367626	12.422800	19.311000	3.142950	43.962400	1.827880	0.030009	0.313872	0.045592	0.003345	0.002035	0.123265	0.000581	0.012064	0.006748	0.001888	0.018884
25-Jan-2024	0.367626	12.489500	19.414600	3.159810	44.198379	1.837680	0.030170	0.315555	0.045836	0.003363	0.002046	0.123926	0.000584	0.012129	0.006784	0.001899	0.018985
26-Jan-2024	0.367626	12.560100	19.524400	3.177690	44.448297	1.848080	0.030341	0.317340	0.046096	0.003382	0.002058	0.124627	0.000588	0.012197	0.006822	0.001909	0.019093
27-Jan-2024	0.367626	12.619400	19.616600	3.192690	44.658139	1.856800	0.030484	0.318838	0.046313	0.003398	0.002067	0.125216	0.000590	0.012255	0.006854	0.001918	0.019183
28-Jan-2024	0.367626	12.682400	19.714500	3.208630	44.881091	1.866070	0.030636	0.320430	0.046545	0.003415	0.002078	0.125841	0.000593	0.012316	0.006889	0.001928	0.019278
29-Jan-2024	0.367626	12.747700	19.816000	3.225140	45.112133	1.875670	0.030794	0.322079	0.046784	0.003432	0.002088	0.126488	0.000596	0.012380	0.006924	0.001938	0.019378

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
30-Jan-2024	0.367626	12.810700	19.914000	3.241090	45.335127	1.884950	0.030946	0.323672	0.047015	0.003449	0.002099	0.127114	0.000599	0.012441	0.006958	0.001947	0.019473
31-Jan-2024	0.367626	12.903900	20.058900	3.264670	45.664949	1.898670	0.031171	0.326026	0.047358	0.003475	0.002114	0.128039	0.000604	0.012531	0.007009	0.001962	0.019615
1-Feb-2024	0.367626	12.996500	20.202900	3.288100	45.992656	1.912290	0.031395	0.328367	0.047697	0.003499	0.002129	0.128958	0.000608	0.012621	0.007059	0.001976	0.019756
2-Feb-2024	0.367626	13.089300	20.347100	3.311580	46.321069	1.925950	0.031619	0.330711	0.048038	0.003524	0.002144	0.129878	0.000612	0.012711	0.007110	0.001990	0.019897
3-Feb-2024	0.367626	13.179600	20.487500	3.334430	46.640644	1.939230	0.031837	0.332993	0.048369	0.003549	0.002159	0.130774	0.000617	0.012799	0.007159	0.002003	0.020034
4-Feb-2024	0.367626	13.267100	20.623500	3.356560	46.950263	1.952110	0.032048	0.335203	0.048690	0.003572	0.002173	0.131642	0.000621	0.012884	0.007206	0.002017	0.020167
5-Feb-2024	0.367626	13.351800	20.755100	3.377980	47.249966	1.964560	0.032253	0.337342	0.049001	0.003595	0.002187	0.132483	0.000625	0.012966	0.007252	0.002030	0.020296
6-Feb-2024	0.367626	13.434400	20.883500	3.398880	47.542285	1.976720	0.032453	0.339430	0.049304	0.003617	0.002201	0.133302	0.000629	0.013046	0.007297	0.002042	0.020422
7-Feb-2024	0.367626	13.515200	21.009100	3.419320	47.828214	1.988610	0.032648	0.341471	0.049601	0.003639	0.002214	0.134104	0.000632	0.013125	0.007341	0.002054	0.020544
8-Feb-2024	0.367626	13.425300	20.869400	3.396580	47.510091	1.975380	0.032431	0.339200	0.049271	0.003615	0.002199	0.133212	0.000628	0.013038	0.007292	0.002041	0.020408
9-Feb-2024	0.367626	13.498900	20.983800	3.415210	47.770588	1.986220	0.032608	0.341060	0.049541	0.003635	0.002211	0.133943	0.000632	0.013109	0.007332	0.002052	0.020520
10-Feb-2024	0.367626	13.572300	21.097800	3.433760	48.030257	1.997000	0.032786	0.342912	0.049810	0.003654	0.002223	0.134670	0.000635	0.013180	0.007372	0.002063	0.020631
11-Feb-2024	0.367626	13.646300	21.212900	3.452490	48.292165	2.007900	0.032964	0.344783	0.050082	0.003674	0.002235	0.135405	0.000639	0.013252	0.007412	0.002074	0.020744
12-Feb-2024	0.367626	13.720800	21.328700	3.471350	48.555857	2.018860	0.033144	0.346666	0.050356	0.003694	0.002248	0.136144	0.000642	0.013325	0.007453	0.002086	0.020857
13-Feb-2024	0.367626	13.793500	21.441600	3.489720	48.813036	2.029550	0.033320	0.348501	0.050622	0.003714	0.002260	0.136865	0.000645	0.013395	0.007492	0.002097	0.020967
14-Feb-2024	0.367626	13.869700	21.560100	3.509000	49.082703	2.040770	0.033504	0.350427	0.050902	0.003735	0.002272	0.137621	0.000649	0.013469	0.007534	0.002108	0.021083
15-Feb-2024	0.367626	13.947900	21.681700	3.528790	49.359464	2.052270	0.033693	0.352403	0.051189	0.003756	0.002285	0.138397	0.000653	0.013545	0.007576	0.002120	0.021202
16-Feb-2024	0.367626	14.022200	21.797200	3.547590	49.622409	2.063210	0.033872	0.354281	0.051462	0.003776	0.002297	0.139135	0.000656	0.013617	0.007616	0.002132	0.021315
17-Feb-2024	0.367626	14.097400	21.914100	3.566620	49.888549	2.074270	0.034054	0.356181	0.051738	0.003796	0.002309	0.139881	0.000660	0.013690	0.007657	0.002143	0.021429
18-Feb-2024	0.367626	14.169100	22.025500	3.584750	50.142243	2.084820	0.034227	0.357992	0.052001	0.003815	0.002321	0.140592	0.000663	0.013760	0.007696	0.002154	0.021538
19-Feb-2024	0.367626	14.247900	22.148100	3.604700	50.421161	2.096420	0.034418	0.359984	0.052290	0.003836	0.002334	0.141374	0.000667	0.013836	0.007739	0.002166	0.021658
20-Feb-2024	0.367626	14.308500	22.242200	3.620010	50.635526	2.105330	0.034564	0.361513	0.052512	0.003853	0.002344	0.141975	0.000670	0.013895	0.007772	0.002175	0.021750
21-Feb-2024	0.367626	14.391500	22.371300	3.641030	50.929337	2.117550	0.034765	0.363612	0.052817	0.003875	0.002358	0.142799	0.000673	0.013976	0.007817	0.002188	0.021876
22-Feb-2024	0.367626	14.466700	22.488100	3.660040	51.195395	2.128600	0.034946	0.365510	0.053093	0.003895	0.002370	0.143545	0.000677	0.014049	0.007858	0.002199	0.021991
23-Feb-2024	0.367626	14.540900	22.603600	3.678830	51.458049	2.139530	0.035126	0.367386	0.053365	0.003915	0.002382	0.144282	0.000680	0.014121	0.007898	0.002210	0.022104
24-Feb-2024	0.367626	14.615300	22.719200	3.697650	51.721327	2.150480	0.035305	0.369267	0.053638	0.003935	0.002394	0.145020	0.000684	0.014193	0.007939	0.002222	0.022217
25-Feb-2024	0.367626	14.689500	22.834600	3.716430	51.983940	2.161400	0.035485	0.371141	0.053911	0.003955	0.002406	0.145756	0.000687	0.014265	0.007979	0.002233	0.022329
26-Feb-2024	0.367626	14.764900	22.951600	3.735480	52.250662	2.172480	0.035666	0.373044	0.054187	0.003976	0.002419	0.146504	0.000691	0.014338	0.008020	0.002244	0.022444
27-Feb-2024	0.367626	14.840100	23.068700	3.754530	52.516884	2.183560	0.035848	0.374946	0.054463	0.003996	0.002431	0.147251	0.000694	0.014412	0.008061	0.002256	0.022558
28-Feb-2024	0.367626	14.917800	23.189300	3.774160	52.791737	2.194980	0.036036	0.376907	0.054748	0.004017	0.002444	0.148021	0.000698	0.014487	0.008103	0.002268	0.022676
29-Feb-2024	0.367626	15.040400	23.380000	3.805200	53.225692	2.213020	0.036332	0.380006	0.055198	0.004050	0.002464	0.149238	0.000704	0.014606	0.008170	0.002286	0.022863
1-Mar-2024	0.367626	14.957600	23.251300	3.784250	52.932669	2.200840	0.036132	0.377914	0.054895	0.004028	0.002450	0.148416	0.000700	0.014526	0.008125	0.002274	0.022737
2-Mar-2024	0.367626	14.979500	23.285300	3.789790	53.010167	2.204060	0.036185	0.378468	0.054975	0.004033	0.002454	0.148633	0.000701	0.014547	0.008136	0.002277	0.022770
3-Mar-2024	0.367626	15.005800	23.326200	3.796440	53.103223	2.207930	0.036248	0.379132	0.055071	0.004040	0.002458	0.148894	0.000702	0.014572	0.008151	0.002281	0.022810
4-Mar-2024	0.367626	15.039300	23.378300	3.804920	53.221793	2.212860	0.036329	0.379978	0.055194	0.004050	0.002464	0.149227	0.000704	0.014605	0.008169	0.002286	0.022861
5-Mar-2024	0.367626	15.093100	23.462000	3.818540	53.412218	2.220780	0.036459	0.381338	0.055392	0.004064	0.002473	0.149761	0.000706	0.014657	0.008198	0.002294	0.022943
6-Mar-2024	0.367626	15.161700	23.568500	3.835880	53.654919	2.230870	0.036625	0.383071	0.055644	0.004082	0.002484	0.150441	0.000709	0.014724	0.008235	0.002305	0.023047
7-Mar-2024	0.367626	15.234900	23.682400	3.854410	53.914006	2.241640	0.036802	0.384921	0.055912	0.004102	0.002496	0.151168	0.000713	0.014795	0.008275	0.002316	0.023158
8-Mar-2024	0.367626	15.308800	23.797100	3.873090	54.175458	2.252510	0.036980	0.386786	0.056183	0.004122	0.002508	0.151900	0.000716	0.014867	0.008315	0.002327	0.023271
9-Mar-2024	0.367626	15.381600	23.910400	3.891520	54.433135	2.263230	0.037156	0.388627	0.056451	0.004142	0.002520	0.152624	0.000720	0.014937	0.008355	0.002338	0.023381
10-Mar-2024	0.367626	15.453600	24.022300	3.909740	54.687949	2.273820	0.037330	0.390446	0.056715	0.004161	0.002532	0.153338	0.000723	0.015007	0.008394	0.002349	0.023491
11-Mar-2024	0.367626	15.524000	24.131800	3.927550	54.937079	2.284180	0.037500	0.392225	0.056973	0.004180	0.002543	0.154036	0.000726	0.015076	0.008432	0.002360	0.023598
12-Mar-2024	0.367626	15.584100	24.225100	3.942740	55.149701	2.293020	0.037645	0.393742	0.057194	0.004196	0.002553	0.154632	0.000729	0.015134	0.008465	0.002369	0.023689
13-Mar-2024	0.367626	15.627400	24.292500	3.953710	55.302996	2.299400	0.037750	0.394838	0.057353	0.004208	0.002560	0.155062	0.000731	0.015176	0.008488	0.002376	0.023755
14-Mar-2024	0.367626	15.777500	24.525800	3.991670	55.834115	2.321480	0.038113	0.398629	0.057903	0.004248	0.002585	0.156551	0.000738	0.015322	0.008570	0.002398	0.023983
15-Mar-2024	0.367626	15.929500	24.762000	4.030120	56.371996	2.343840	0.038480	0.402469	0.058461	0.004289	0.002610	0.158059	0.000745	0.015469	0.008652	0.002421	0.024214
16-Mar-2024	0.367626	16.089800	25.011300	4.070690	56.939332	2.367430	0.038867	0.406520	0.059050	0.004332	0.002636	0.159650	0.000753	0.015625	0.008740	0.002446	0.024458
17-Mar-2024	0.367626	16.257600	25.272100	4.113150	57.533179	2.392120	0.039272	0.410760	0.059666	0.004378	0.002663	0.161315	0.000761	0.015788	0.008831	0.002471	0.024713
18-Mar-2024	0.367626	16.432700	25.544300	4.157450	58.152831	2.417890	0.039695	0.415184	0.060308	0.004425	0.002692	0.163053	0.000769	0.015958	0.008926	0.002498	0.024979
19-Mar-2024	0.367626	16.614000	25.826100	4.203310	58.794389	2.444560	0.040133	0.419764	0.060974	0.004474	0.002722	0.164852	0.000777	0.016134	0.009024	0.002525	0.025255
20-Mar-2024	0.367626	16.726100	26.000300	4.231660	59.191048	2.461050	0.040404	0.422596	0.061385	0.004504	0.002740	0.165964	0.000783	0.016243	0.009085	0.002543	0.025425

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21-Mar-2024	0.367626	16.905400	26.279100	4.277040	59.825635	2.487440	0.040837	0.427127	0.062043	0.004552	0.002769	0.167743	0.000791	0.016417	0.009183	0.002570	0.025698
22-Mar-2024	0.367626	17.089700	26.565600	4.323670	60.477854	2.514560	0.041283	0.431784	0.062719	0.004602	0.002800	0.169572	0.000800	0.016596	0.009283	0.002598	0.025978
23-Mar-2024	0.367626	17.278400	26.858800	4.371390	61.145549	2.542310	0.041738	0.436549	0.063412	0.004652	0.002830	0.171444	0.000808	0.016779	0.009385	0.002626	0.026265
24-Mar-2024	0.367626	17.470700	27.157800	4.420060	61.826145	2.570620	0.042203	0.441409	0.064118	0.004704	0.002862	0.173352	0.000817	0.016966	0.009490	0.002656	0.026557
25-Mar-2024	0.367626	17.666900	27.462900	4.469700	62.520474	2.599490	0.042677	0.446367	0.064838	0.004757	0.002894	0.175299	0.000827	0.017157	0.009596	0.002686	0.026855
26-Mar-2024	0.367626	17.868200	27.775700	4.520610	63.232767	2.629100	0.043163	0.451452	0.065576	0.004811	0.002927	0.177296	0.000836	0.017352	0.009705	0.002716	0.027161
27-Mar-2024	0.367626	18.074100	28.095900	4.572730	63.961530	2.659400	0.043660	0.456656	0.066332	0.004867	0.002961	0.179340	0.000846	0.017552	0.009817	0.002747	0.027474
28-Mar-2024	0.367626	18.283700	28.421700	4.625750	64.703237	2.690240	0.044167	0.461951	0.067101	0.004923	0.002995	0.181420	0.000856	0.017756	0.009931	0.002779	0.027793
29-Mar-2024	0.367626	18.501900	28.760800	4.680940	65.475355	2.722340	0.044694	0.467462	0.067902	0.004982	0.003031	0.183584	0.000866	0.017967	0.010050	0.002812	0.028125
30-Mar-2024	0.367626	18.728300	29.112700	4.738220	66.276555	2.755650	0.045241	0.473183	0.068733	0.005043	0.003068	0.185830	0.000876	0.018187	0.010173	0.002847	0.028469
31-Mar-2024	0.367626	18.961900	29.475900	4.797340	67.103310	2.790030	0.045805	0.479086	0.069590	0.005106	0.003106	0.188149	0.000887	0.018414	0.010300	0.002882	0.028824
1-Apr-2024	0.367626	19.198600	29.843800	4.857200	67.940854	2.824850	0.046377	0.485065	0.070459	0.005169	0.003145	0.190497	0.000898	0.018644	0.010428	0.002918	0.029184
2-Apr-2024	0.367626	19.342500	30.067500	4.893610	68.450108	2.846030	0.046724	0.488701	0.070987	0.005208	0.003169	0.191925	0.000905	0.018784	0.010506	0.002940	0.029402
3-Apr-2024	0.367626	19.394100	30.147800	4.906680	68.632776	2.853620	0.046849	0.490006	0.071177	0.005222	0.003177	0.192437	0.000907	0.018834	0.010534	0.002948	0.029481
4-Apr-2024	0.367626	19.419700	30.187500	4.913140	68.723301	2.857380	0.046911	0.490651	0.071270	0.005229	0.003181	0.192691	0.000909	0.018859	0.010548	0.002952	0.029520
5-Apr-2024	0.367626	19.436200	30.213200	4.917330	68.781756	2.859820	0.046951	0.491070	0.071331	0.005233	0.003184	0.192855	0.000909	0.018875	0.010557	0.002954	0.029545
6-Apr-2024	0.367626	19.448600	30.232400	4.920460	68.825608	2.861640	0.046981	0.491382	0.071377	0.005237	0.003186	0.192978	0.000910	0.018887	0.010564	0.002956	0.029564
7-Apr-2024	0.367626	19.458500	30.247800	4.922960	68.860624	2.863090	0.047005	0.491632	0.071413	0.005239	0.003188	0.193076	0.000911	0.018896	0.010569	0.002958	0.029579
8-Apr-2024	0.367626	19.466700	30.260500	4.925030	68.889623	2.864300	0.047024	0.491839	0.071443	0.005242	0.003189	0.193157	0.000911	0.018904	0.010574	0.002959	0.029591
9-Apr-2024	0.367626	19.473600	30.271300	4.926790	68.914100	2.865320	0.047041	0.492015	0.071468	0.005244	0.003190	0.193226	0.000911	0.018911	0.010578	0.002960	0.029602
10-Apr-2024	0.367626	19.479700	30.280800	4.928340	68.935715	2.866220	0.047056	0.492169	0.071491	0.005245	0.003191	0.193287	0.000911	0.018917	0.010581	0.002961	0.029611
11-Apr-2024	0.367626	19.485100	30.289100	4.929680	68.954717	2.867000	0.047069	0.492303	0.071510	0.005247	0.003192	0.193340	0.000912	0.018922	0.010584	0.002962	0.029619
12-Apr-2024	0.367626	19.489700	30.296200	4.930840	68.970980	2.867680	0.047080	0.492419	0.071527	0.005248	0.003193	0.193385	0.000912	0.018927	0.010586	0.002963	0.029626
13-Apr-2024	0.367626	19.493500	30.302300	4.931830	68.984545	2.868250	0.047089	0.492518	0.071541	0.005249	0.003193	0.193424	0.000912	0.018931	0.010588	0.002963	0.029632
14-Apr-2024	0.367626	19.496800	30.307400	4.932650	68.996162	2.868730	0.047097	0.492600	0.071553	0.005250	0.003194	0.193456	0.000912	0.018934	0.010590	0.002964	0.029637
15-Apr-2024	0.367626	19.499500	30.311600	4.933350	69.005787	2.869140	0.047104	0.492669	0.071563	0.005250	0.003194	0.193483	0.000912	0.018936	0.010592	0.002964	0.029641
16-Apr-2024	0.367626	19.501900	30.315300	4.933940	69.014209	2.869480	0.047109	0.492728	0.071572	0.005251	0.003195	0.193507	0.000913	0.018939	0.010593	0.002964	0.029645
17-Apr-2024	0.367626	19.503900	30.318400	4.934460	69.021345	2.869780	0.047114	0.492780	0.071580	0.005252	0.003195	0.193527	0.000913	0.018941	0.010594	0.002965	0.029648
18-Apr-2024	0.367626	19.505800	30.321300	4.934920	69.027983	2.870050	0.047119	0.492827	0.071586	0.005252	0.003195	0.193545	0.000913	0.018942	0.010595	0.002965	0.029651
19-Apr-2024	0.367626	19.507500	30.323900	4.935350	69.033999	2.870300	0.047123	0.492870	0.071593	0.005253	0.003196	0.193562	0.000913	0.018944	0.010596	0.002965	0.029653
20-Apr-2024	0.367626	19.509100	30.326400	4.935760	69.039682	2.870540	0.047127	0.492910	0.071598	0.005253	0.003196	0.193578	0.000913	0.018946	0.010597	0.002966	0.029656
21-Apr-2024	0.367626	19.510500	30.328700	4.936130	69.044702	2.870750	0.047130	0.492947	0.071604	0.005253	0.003196	0.193592	0.000913	0.018947	0.010598	0.002966	0.029658
22-Apr-2024	0.367626	19.511900	30.330900	4.936480	69.049639	2.870960	0.047134	0.492982	0.071609	0.005254	0.003196	0.193606	0.000913	0.018948	0.010598	0.002966	0.029660
23-Apr-2024	0.367626	19.513200	30.332800	4.936800	69.054203	2.871140	0.047137	0.493014	0.071614	0.005254	0.003197	0.193619	0.000913	0.018950	0.010599	0.002966	0.029662
24-Apr-2024	0.367626	19.514300	30.334600	4.937090	69.058144	2.871310	0.047139	0.493043	0.071618	0.005254	0.003197	0.193630	0.000913	0.018951	0.010600	0.002966	0.029664
25-Apr-2024	0.367626	19.515300	30.336100	4.937340	69.061670	2.871450	0.047142	0.493068	0.071621	0.005255	0.003197	0.193640	0.000913	0.018952	0.010600	0.002967	0.029665
26-Apr-2024	0.367626	19.516100	30.337400	4.937540	69.064491	2.871580	0.047144	0.493088	0.071624	0.005255	0.003197	0.193648	0.000913	0.018952	0.010601	0.002967	0.029666
27-Apr-2024	0.367626	19.516800	30.338400	4.937710	69.066939	2.871670	0.047145	0.493105	0.071627	0.005255	0.003197	0.193654	0.000913	0.018953	0.010601	0.002967	0.029667
28-Apr-2024	0.367626	19.517300	30.339200	4.937830	69.068682	2.871740	0.047147	0.493117	0.071629	0.005255	0.003197	0.193659	0.000913	0.018954	0.010601	0.002967	0.029668
29-Apr-2024	0.367629	19.517200	30.339000	4.937810	69.068350	2.871730	0.047146	0.493115	0.071628	0.005255	0.003197	0.193658	0.000913	0.018953	0.010601	0.002967	0.029668
30-Apr-2024	0.367691	19.508300	30.325200	4.935550	69.036820	2.870420	0.047125	0.492889	0.071595	0.005253	0.003196	0.193570	0.000913	0.018945	0.010596	0.002965	0.029654
1-May-2024	0.368051	19.449100	30.233200	4.920590	68.827392	2.861720	0.046982	0.491395	0.071378	0.005237	0.003186	0.192983	0.000910	0.018887	0.010564	0.002956	0.029564
2-May-2024	0.369889	19.199700	29.845500	4.857490	67.944795	2.825020	0.046379	0.485093	0.070463	0.005170	0.003145	0.190508	0.000898	0.018645	0.010429	0.002919	0.029185
3-May-2024	0.372456	18.860000	29.317500	4.771550	66.742663	2.775040	0.045559	0.476512	0.069216	0.005078	0.003090	0.187138	0.000883	0.018315	0.010244	0.002867	0.028669
4-May-2024	0.374983	18.494200	28.748800	4.679000	65.448139	2.721210	0.044675	0.467268	0.067874	0.004980	0.003030	0.183508	0.000865	0.017960	0.010046	0.002811	0.028113
5-May-2024	0.377384	18.008300	27.993500	4.556060	63.728580	2.649710	0.043501	0.454992	0.066091	0.004849	0.002950	0.178686	0.000843	0.017488	0.009782	0.002737	0.027374
6-May-2024	0.380877	17.566500	27.306700	4.444290	62.165137	2.584710	0.042434	0.443829	0.064469	0.004730	0.002878	0.174303	0.000822	0.017059	0.009542	0.002670	0.026703
7-May-2024	0.383688	17.212500	26.756500	4.354740	60.912432	2.532630	0.041579	0.434886	0.063170	0.004635	0.002820	0.170791	0.000805	0.016715	0.009349	0.002616	0.026165
8-May-2024	0.389236	16.832500	26.165800	4.258600	59.567667	2.476710	0.040661	0.425285	0.061776	0.004532	0.002757	0.167020	0.000788	0.016346	0.009143	0.002559	0.025587
9-May-2024	0.393045	16.590500	25.789600	4.197370	58.711248	2.441110	0.040077	0.419171	0.060887	0.004467	0.002718	0.164619	0.000776	0.016111	0.009011	0.002522	0.025219
10-May-2024	0.430209	16.454000	25.577300	4.162820	58.228131	2.421010	0.039747	0.415720	0.060386	0.004430	0.002695	0.163264	0.000770	0.015979	0.008937	0.002501	0.025012

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-May-2024	0.444839	16.176700	25.146300	4.092670	57.246835	2.380220	0.039077	0.408715	0.059369	0.004356	0.002650	0.160513	0.000757	0.015709	0.008787	0.002459	0.024590
12-May-2024	0.458659	16.000600	24.872600	4.048130	56.623698	2.354310	0.038652	0.404267	0.058722	0.004308	0.002621	0.158766	0.000749	0.015539	0.008691	0.002432	0.024322
13-May-2024	0.477954	15.749800	24.482700	3.984660	55.736080	2.317400	0.038046	0.397929	0.057802	0.004241	0.002580	0.156276	0.000737	0.015295	0.008555	0.002394	0.023941
14-May-2024	0.510136	15.367800	23.888900	3.888030	54.384304	2.261200	0.037123	0.388278	0.056400	0.004138	0.002518	0.152486	0.000719	0.014924	0.008347	0.002336	0.023360
15-May-2024	0.532295	15.143500	23.540200	3.831270	53.590489	2.228190	0.036581	0.382611	0.055577	0.004078	0.002481	0.150261	0.000709	0.014706	0.008225	0.002302	0.023020
16-May-2024	0.538446	15.030600	23.364700	3.802710	53.190968	2.211580	0.036308	0.379758	0.055162	0.004047	0.002462	0.149140	0.000703	0.014596	0.008164	0.002285	0.022848
17-May-2024	0.540780	14.677500	22.815900	3.713390	51.941458	2.159630	0.035456	0.370838	0.053867	0.003952	0.002404	0.145637	0.000687	0.014254	0.007972	0.002231	0.022311
18-May-2024	0.539499	14.491600	22.527000	3.666360	51.283596	2.132280	0.035006	0.366141	0.053184	0.003902	0.002374	0.143793	0.000678	0.014073	0.007871	0.002203	0.022029
19-May-2024	0.576022	13.165200	20.465000	3.330770	46.589615	1.937110	0.031802	0.332627	0.048316	0.003545	0.002157	0.130631	0.000616	0.012785	0.007151	0.002001	0.020012
20-May-2024	0.586180	12.835500	19.952400	3.247340	45.422790	1.888590	0.031006	0.324296	0.047106	0.003456	0.002103	0.127359	0.000601	0.012465	0.006972	0.001951	0.019511
21-May-2024	0.603062	12.462000	19.371900	3.152860	44.101091	1.833640	0.030104	0.314861	0.045736	0.003356	0.002041	0.123654	0.000583	0.012102	0.006769	0.001894	0.018943
22-May-2024	0.621882	11.908500	18.511500	3.012830	42.142358	1.752200	0.028767	0.300877	0.043704	0.003207	0.001951	0.118162	0.000557	0.011565	0.006468	0.001810	0.018102
23-May-2024	0.649949	10.966400	17.047100	2.774480	38.808409	1.613580	0.026491	0.277074	0.040247	0.002953	0.001796	0.108814	0.000513	0.010650	0.005957	0.001667	0.016670
24-May-2024	0.693200	9.873000	15.347400	2.497850	34.939027	1.452700	0.023850	0.249448	0.036234	0.002658	0.001617	0.097964	0.000462	0.009588	0.005363	0.001501	0.015008
25-May-2024	0.724395	9.318940	14.486100	2.357670	32.978278	1.371180	0.022511	0.235449	0.034201	0.002509	0.001527	0.092467	0.000436	0.009050	0.005062	0.001417	0.014166
26-May-2024	0.753438	8.901100	13.836600	2.251960	31.499618	1.309690	0.021502	0.224892	0.032667	0.002397	0.001458	0.088321	0.000417	0.008644	0.004835	0.001353	0.013531
27-May-2024	0.784729	8.721410	13.557200	2.206500	30.863728	1.283260	0.021068	0.220352	0.032008	0.002348	0.001429	0.086538	0.000408	0.008469	0.004737	0.001326	0.013257
28-May-2024	0.801040	9.616610	14.948800	2.432980	34.031687	1.414970	0.023230	0.242970	0.035293	0.002589	0.001575	0.095420	0.000450	0.009339	0.005223	0.001462	0.014618
29-May-2024	0.831337	9.465690	14.714200	2.394800	33.497614	1.392770	0.022866	0.239157	0.034739	0.002549	0.001551	0.093923	0.000443	0.009192	0.005141	0.001439	0.014389
30-May-2024	0.832124	9.631930	14.972600	2.436860	34.085919	1.417230	0.023267	0.243357	0.035349	0.002594	0.001578	0.095572	0.000451	0.009354	0.005232	0.001464	0.014641
31-May-2024	0.842437	9.580330	14.892400	2.423800	33.903292	1.409640	0.023143	0.242054	0.035160	0.002580	0.001569	0.095060	0.000448	0.009304	0.005204	0.001456	0.014563
1-Jun-2024	0.974796	9.148230	14.220700	2.314490	32.374200	1.346060	0.022099	0.231136	0.033574	0.002463	0.001499	0.090773	0.000428	0.008884	0.004969	0.001391	0.013906
2-Jun-2024	1.015363	9.093850	14.136200	2.300730	32.181750	1.338060	0.021967	0.229762	0.033375	0.002449	0.001490	0.090233	0.000426	0.008831	0.004940	0.001382	0.013824
3-Jun-2024	1.075411	9.091900	14.133200	2.300230	32.174821	1.337770	0.021963	0.229713	0.033367	0.002448	0.001489	0.090214	0.000425	0.008829	0.004938	0.001382	0.013821
4-Jun-2024	1.102145	8.596610	13.363200	2.174930	30.422097	1.264890	0.020766	0.217199	0.031550	0.002315	0.001408	0.085299	0.000402	0.008348	0.004669	0.001307	0.013068
5-Jun-2024	1.106969	8.380260	13.026900	2.120190	29.656452	1.233060	0.020244	0.211733	0.030756	0.002256	0.001373	0.083153	0.000392	0.008138	0.004552	0.001274	0.012739
6-Jun-2024	1.121483	8.238030	12.793600	2.087780	29.167839	1.210320	0.019914	0.208340	0.030416	0.002215	0.001356	0.082039	0.000385	0.008016	0.004473	0.001253	0.012529
7-Jun-2024	1.160673	8.203370	12.710100	2.087550	29.080346	1.201120	0.019864	0.207939	0.030740	0.002199	0.001367	0.082392	0.000382	0.008022	0.004450	0.001249	0.012491
8-Jun-2024	1.318587	7.852300	12.053500	2.030490	27.968751	1.132770	0.019138	0.200760	0.031143	0.002077	0.001369	0.081473	0.000360	0.007830	0.004244	0.001202	0.012015
9-Jun-2024	1.505097	7.419090	11.191900	1.974600	26.656871	1.039310	0.018285	0.192568	0.032419	0.001909	0.001401	0.081464	0.000330	0.007663	0.003983	0.001145	0.011453
10-Jun-2024	1.739303	7.332050	10.929900	1.988710	26.497637	1.005750	0.018170	0.191831	0.033986	0.001851	0.001456	0.083446	0.000319	0.007748	0.003918	0.001138	0.011379
11-Jun-2024	2.261383	7.225130	10.677100	1.986230	26.220445	0.975947	0.017981	0.190154	0.034896	0.001798	0.001486	0.084317	0.000309	0.007761	0.003848	0.001126	0.011257
12-Jun-2024	2.904007	7.178920	10.555500	1.988660	26.115065	0.960111	0.017864	0.189002	0.035411	0.001770	0.001505	0.084933	0.000305	0.007780	0.003816	0.001120	0.011204
13-Jun-2024	3.464800	7.132830	10.450100	1.986490	25.991042	0.947366	0.017755	0.187858	0.035717	0.001748	0.001516	0.085211	0.000301	0.007780	0.003786	0.001115	0.011147
14-Jun-2024	3.777687	7.075260	10.355500	1.973170	25.792438	0.937400	0.017585	0.185908	0.035530	0.001731	0.001509	0.084732	0.000298	0.007729	0.003754	0.001106	0.011057
15-Jun-2024	4.165160	6.972060	10.187000	1.949040	25.435381	0.920343	0.017310	0.182858	0.035218	0.001701	0.001496	0.083884	0.000293	0.007638	0.003697	0.001090	0.010899
16-Jun-2024	4.491137	6.877860	10.025700	1.928960	25.117474	0.903796	0.017074	0.180234	0.035044	0.001673	0.001488	0.083306	0.000287	0.007565	0.003644	0.001076	0.010757
17-Jun-2024	4.598320	6.775050	9.868450	1.901620	24.748171	0.888209	0.016772	0.176794	0.034517	0.001648	0.001469	0.082235	0.000283	0.007458	0.003588	0.001059	0.010590
18-Jun-2024	4.721563	6.707170	9.754350	1.886270	24.515463	0.876433	0.016586	0.174650	0.034314	0.001629	0.001462	0.081786	0.000279	0.007402	0.003550	0.001048	0.010483
19-Jun-2024	4.858063	6.568200	9.510130	1.858680	24.054840	0.851591	0.016275	0.171415	0.034200	0.001585	0.001454	0.081070	0.000271	0.007304	0.003471	0.001028	0.010283
20-Jun-2024	4.936507	6.445110	9.290740	1.834590	23.648281	0.829056	0.015991	0.168360	0.034093	0.001547	0.001447	0.080556	0.000264	0.007221	0.003401	0.001010	0.010101
21-Jun-2024	5.024470	6.303120	9.052080	1.802900	23.163233	0.805342	0.015654	0.164731	0.033760	0.001507	0.001433	0.079624	0.000257	0.007106	0.003322	0.000989	0.009887
22-Jun-2024	5.077570	6.198630	8.859840	1.784130	22.825026	0.785917	0.015450	0.162605	0.033806	0.001475	0.001430	0.079361	0.000250	0.007045	0.003262	0.000974	0.009739
23-Jun-2024	5.105973	6.055810	8.609000	1.755240	22.349436	0.760493	0.015126	0.159192	0.033635	0.001432	0.001421	0.078679	0.000242	0.006944	0.003181	0.000953	0.009530
24-Jun-2024	5.223697	5.914650	8.361900	1.726540	21.878773	0.735710	0.014817	0.155977	0.033479	0.001390	0.001412	0.077988	0.000234	0.006844	0.003101	0.000932	0.009324
25-Jun-2024	5.475617	5.809230	8.173820	1.706130	21.531491	0.717002	0.014608	0.153837	0.033445	0.001357	0.001407	0.077566	0.000228	0.006775	0.003041	0.000917	0.009174
26-Jun-2024	5.830777	5.757970	8.076050	1.697540	21.368121	0.707494	0.014533	0.153048	0.033522	0.001343	0.001407	0.077581	0.000225	0.006750	0.003012	0.000910	0.009102
27-Jun-2024	6.268577	5.683460	7.941780	1.683120	21.122688	0.694242	0.014388	0.151531	0.033492	0.001321	0.001404	0.077360	0.000220	0.006703	0.002970	0.000899	0.008994
28-Jun-2024	6.570637	5.587940	7.772250	1.664080	20.805768	0.677356	0.014189	0.149436	0.033409	0.001293	0.001398	0.076985	0.000215	0.006638	0.002916	0.000885	0.008854
29-Jun-2024	6.822797	5.513970	7.637050	1.650520	20.565224	0.663963	0.014054	0.148045	0.033437	0.001271	0.001396	0.076784	0.000210	0.006594	0.002873	0.000875	0.008750
30-Jun-2024	7.121023	5.427710	7.483100	1.633640	20.280321	0.648795	0.013887	0.146302	0.033402	0.001245	0.001392	0.076464	0.000205	0.006538	0.002824	0.000863	0.008625

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Jul-2024	8.194447	5.664760	7.953000	1.661500	20.986963	0.700076	0.014320	0.149877	0.032384	0.001353	0.001370	0.076948	0.000222	0.006625	0.002969	0.000890	0.008896
2-Jul-2024	8.874407	5.833490	8.241640	1.694430	21.543887	0.730413	0.014734	0.153699	0.032571	0.001414	0.001380	0.078283	0.000231	0.006755	0.003067	0.000913	0.009129
3-Jul-2024	10.333977	5.702680	8.014750	1.667850	21.107798	0.707480	0.014446	0.150819	0.032481	0.001372	0.001372	0.077495	0.000224	0.006662	0.002993	0.000895	0.008948
4-Jul-2024	10.973600	5.799230	8.183260	1.685080	21.419837	0.724967	0.014672	0.153059	0.032720	0.001404	0.001377	0.078120	0.000229	0.006742	0.003050	0.000910	0.009098
5-Jul-2024	11.241433	5.839510	8.251670	1.691120	21.545289	0.733161	0.014803	0.154405	0.032816	0.001424	0.001378	0.078653	0.000232	0.006780	0.003076	0.000916	0.009158
6-Jul-2024	12.323433	5.871090	8.306160	1.697040	21.648522	0.739795	0.014913	0.155546	0.032821	0.001442	0.001379	0.079142	0.000234	0.006803	0.003094	0.000920	0.009204
7-Jul-2024	11.558767	5.795440	8.203690	1.672230	21.357457	0.731595	0.014730	0.153620	0.032334	0.001429	0.001357	0.078122	0.000231	0.006714	0.003057	0.000908	0.009082
8-Jul-2024	11.661267	5.794750	8.203070	1.671460	21.352563	0.731923	0.014737	0.153683	0.032294	0.001431	0.001356	0.078190	0.000231	0.006713	0.003057	0.000908	0.009078
9-Jul-2024	12.497667	5.786810	8.189540	1.669690	21.325448	0.730995	0.014730	0.153601	0.032207	0.001433	0.001355	0.078264	0.000231	0.006704	0.003053	0.000906	0.009062
10-Jul-2024	12.471733	5.774110	8.173130	1.665600	21.276893	0.729672	0.014696	0.153245	0.032096	0.001431	0.001351	0.078084	0.000230	0.006686	0.003046	0.000904	0.009042
11-Jul-2024	11.980267	5.750600	8.145220	1.656940	21.182527	0.727685	0.014633	0.152581	0.031879	0.001428	0.001342	0.077700	0.000230	0.006652	0.003035	0.000900	0.009002
12-Jul-2024	12.442767	5.789570	8.208700	1.665140	21.313603	0.734160	0.014730	0.153582	0.031981	0.001442	0.001346	0.078113	0.000232	0.006689	0.003057	0.000906	0.009060
13-Jul-2024	12.822333	5.816570	8.256890	1.669390	21.398523	0.739390	0.014793	0.154242	0.031988	0.001454	0.001346	0.078341	0.000233	0.006709	0.003074	0.000910	0.009099
14-Jul-2024	13.518967	5.836890	8.299480	1.671640	21.458528	0.743965	0.014826	0.154586	0.031910	0.001462	0.001344	0.078345	0.000235	0.006714	0.003086	0.000913	0.009128
15-Jul-2024	14.315467	5.880730	8.380010	1.678480	21.596163	0.752256	0.014912	0.155459	0.031928	0.001478	0.001344	0.078543	0.000238	0.006744	0.003113	0.000919	0.009192
16-Jul-2024	14.828933	5.892090	8.399550	1.680670	21.633548	0.754411	0.014941	0.155772	0.031912	0.001484	0.001345	0.078698	0.000238	0.006751	0.003119	0.000921	0.009208
17-Jul-2024	15.274733	5.902540	8.421270	1.681590	21.663430	0.756838	0.014960	0.155971	0.031872	0.001489	0.001343	0.078720	0.000239	0.006755	0.003126	0.000922	0.009222
18-Jul-2024	15.463167	6.019290	8.621510	1.703920	22.046910	0.777082	0.015217	0.158625	0.032095	0.001529	0.001351	0.079598	0.000246	0.006851	0.003194	0.000940	0.009397
19-Jul-2024	16.264200	6.017680	8.633800	1.699020	22.022711	0.778988	0.015191	0.158342	0.031910	0.001532	0.001343	0.079252	0.000246	0.006832	0.003196	0.000939	0.009392
20-Jul-2024	16.642333	6.034370	8.683330	1.695730	22.050838	0.784728	0.015190	0.158296	0.031709	0.001541	0.001334	0.078858	0.000248	0.006823	0.003209	0.000941	0.009414
21-Jul-2024	16.827733	6.131400	8.850210	1.714670	22.371117	0.801099	0.015386	0.160306	0.031905	0.001570	0.001341	0.079468	0.000254	0.006902	0.003265	0.000956	0.009560
22-Jul-2024	16.898433	6.163100	8.910450	1.719310	22.469379	0.807190	0.015439	0.160844	0.031898	0.001581	0.001341	0.079528	0.000256	0.006921	0.003284	0.000961	0.009608
23-Jul-2024	17.470233	6.198650	8.980540	1.724020	22.577543	0.814324	0.015494	0.161390	0.031855	0.001593	0.001339	0.079544	0.000258	0.006938	0.003306	0.000966	0.009660
24-Jul-2024	17.539233	6.250720	9.078520	1.731650	22.738983	0.824210	0.015582	0.162279	0.031861	0.001610	0.001339	0.079651	0.000262	0.006970	0.003337	0.000974	0.009737
25-Jul-2024	17.549133	6.226820	9.061360	1.719630	22.629806	0.823429	0.015490	0.161284	0.031538	0.001607	0.001324	0.078913	0.000262	0.006924	0.003327	0.000970	0.009697
26-Jul-2024	16.216133	6.222340	9.066400	1.714970	22.599429	0.824388	0.015457	0.160917	0.031374	0.001608	0.001318	0.078579	0.000262	0.006905	0.003327	0.000969	0.009688
27-Jul-2024	15.463800	6.171010	9.000640	1.698240	22.402364	0.818764	0.015311	0.159378	0.031000	0.001596	0.001302	0.077714	0.000260	0.006837	0.003301	0.000961	0.009606
28-Jul-2024	14.865567	6.158880	8.993500	1.691930	22.346091	0.818519	0.015259	0.158816	0.030804	0.001595	0.001294	0.077305	0.000260	0.006811	0.003296	0.000959	0.009585
29-Jul-2024	14.613633	6.094410	8.910340	1.671140	22.099496	0.811359	0.015077	0.156893	0.030345	0.001580	0.001275	0.076227	0.000258	0.006726	0.003263	0.000948	0.009483
30-Jul-2024	14.975033	6.201960	9.084090	1.695870	22.469887	0.827891	0.015311	0.159303	0.030674	0.001611	0.001289	0.077182	0.000264	0.006825	0.003323	0.000965	0.009647
31-Jul-2024	14.831967	6.244020	9.157620	1.703910	22.608019	0.835080	0.015392	0.160117	0.030736	0.001624	0.001292	0.077417	0.000266	0.006857	0.003347	0.000971	0.009710
1-Aug-2024	14.035100	6.252450	9.186510	1.701420	22.618815	0.838375	0.015380	0.159963	0.030579	0.001629	0.001285	0.077115	0.000267	0.006846	0.003354	0.000972	0.009720
2-Aug-2024	14.151100	6.258720	9.212170	1.698370	22.621912	0.841358	0.015363	0.159748	0.030414	0.001633	0.001278	0.076787	0.000268	0.006833	0.003360	0.000973	0.009727
3-Aug-2024	14.275933	6.324570	9.322770	1.712430	22.844238	0.851941	0.015495	0.161091	0.030561	0.001652	0.001285	0.077266	0.000272	0.006888	0.003397	0.000983	0.009827
4-Aug-2024	14.454700	6.445210	9.519820	1.739820	23.258268	0.870540	0.015745	0.163647	0.030900	0.001687	0.001300	0.078276	0.000278	0.006995	0.003464	0.001001	0.010011
5-Aug-2024	14.987900	6.557450	9.704670	1.764820	23.641481	0.887971	0.015972	0.165956	0.031207	0.001719	0.001313	0.079164	0.000284	0.007094	0.003527	0.001018	0.010182
6-Aug-2024	13.923667	6.536130	9.689500	1.755080	23.548136	0.886729	0.015868	0.164824	0.030891	0.001715	0.001301	0.078490	0.000284	0.007048	0.003517	0.001015	0.010146
7-Aug-2024	13.638867	6.585370	9.774130	1.765600	23.714410	0.894540	0.015949	0.165624	0.030960	0.001730	0.001305	0.078793	0.000287	0.007085	0.003545	0.001022	0.010220
8-Aug-2024	13.636300	6.666870	9.906230	1.784850	23.997187	0.906659	0.016108	0.167235	0.031188	0.001752	0.001316	0.079487	0.000291	0.007157	0.003590	0.001034	0.010344
9-Aug-2024	13.551133	6.732110	10.014100	1.800360	24.223961	0.916292	0.016217	0.168324	0.031314	0.001770	0.001324	0.079990	0.000294	0.007208	0.003625	0.001044	0.010443
10-Aug-2024	12.440600	6.727970	10.028600	1.793690	24.186157	0.917936	0.016145	0.167510	0.031043	0.001772	0.001313	0.079416	0.000295	0.007178	0.003625	0.001043	0.010433
11-Aug-2024	12.115133	6.742610	10.064900	1.794010	24.224030	0.921359	0.016132	0.167326	0.030919	0.001778	0.001309	0.079242	0.000296	0.007174	0.003635	0.001045	0.010453
12-Aug-2024	12.126167	6.785890	10.137300	1.803900	24.372828	0.927907	0.016203	0.168031	0.030994	0.001791	0.001313	0.079573	0.000299	0.007208	0.003659	0.001052	0.010518
13-Aug-2024	12.311933	6.880450	10.286400	1.827550	24.706335	0.941433	0.016395	0.169997	0.031298	0.001817	0.001328	0.080506	0.000303	0.007295	0.003710	0.001066	0.010662
14-Aug-2024	12.477900	6.927620	10.365100	1.839240	24.872257	0.948133	0.016458	0.170610	0.031368	0.001830	0.001334	0.080865	0.000306	0.007330	0.003735	0.001073	0.010734
15-Aug-2024	13.292833	7.076190	10.616800	1.870750	25.372995	0.971582	0.016721	0.173241	0.031686	0.001873	0.001348	0.081861	0.000314	0.007450	0.003819	0.001096	0.010959
16-Aug-2024	14.036000	7.187290	10.805200	1.894780	25.749367	0.988881	0.016907	0.175090	0.031910	0.001905	0.001358	0.082609	0.000320	0.007538	0.003881	0.001113	0.011128
17-Aug-2024	12.865100	7.148100	10.769500	1.877640	25.580927	0.986147	0.016750	0.173391	0.031467	0.001899	0.001339	0.081582	0.000319	0.007469	0.003863	0.001106	0.011064
18-Aug-2024	12.426000	7.072040	10.663100	1.855700	25.300656	0.976334	0.016538	0.171162	0.031018	0.001880	0.001321	0.080522	0.000316	0.007378	0.003823	0.001094	0.010944
19-Aug-2024	12.683867	7.127250	10.749600	1.869910	25.497033	0.983997	0.016644	0.172237	0.031187	0.001895	0.001330	0.081089	0.000319	0.007429	0.003853	0.001103	0.011028
20-Aug-2024	11.866700	7.176100	10.833100	1.880930	25.664391	0.991331	0.016708	0.172860	0.031236	0.001910	0.001334	0.081417	0.000322	0.007463	0.003879	0.001110	0.011101

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21-Aug-2024	11.628500	7.231250	10.920300	1.894930	25.859753	0.999052	0.016812	0.173907	0.031398	0.001925	0.001343	0.081955	0.000324	0.007513	0.003909	0.001118	0.011184
22-Aug-2024	11.680433	7.274630	10.993200	1.905890	26.013206	1.005000	0.016857	0.174326	0.031441	0.001937	0.001348	0.082269	0.000327	0.007542	0.003932	0.001125	0.011250
23-Aug-2024	11.839700	7.326150	11.088500	1.915090	26.179737	1.013700	0.016914	0.174844	0.031446	0.001952	0.001349	0.082394	0.000330	0.007573	0.003961	0.001133	0.011327
24-Aug-2024	11.680367	7.388580	11.196800	1.928260	26.389859	1.023470	0.017003	0.175714	0.031532	0.001970	0.001355	0.082738	0.000333	0.007618	0.003996	0.001142	0.011421
25-Aug-2024	11.503633	7.453710	11.311700	1.942000	26.609070	1.033580	0.017080	0.176436	0.031585	0.001988	0.001359	0.083047	0.000337	0.007661	0.004032	0.001152	0.011520
26-Aug-2024	11.866167	7.506570	11.409800	1.950880	26.777629	1.042740	0.017143	0.177024	0.031590	0.002005	0.001360	0.083172	0.000340	0.007693	0.004063	0.001160	0.011599
27-Aug-2024	11.904933	7.537320	11.456000	1.959920	26.891639	1.046460	0.017194	0.177534	0.031680	0.002013	0.001366	0.083543	0.000342	0.007721	0.004079	0.001164	0.011645
28-Aug-2024	12.431667	7.530590	11.446800	1.958980	26.870963	1.045060	0.017153	0.177077	0.031599	0.002011	0.001365	0.083456	0.000341	0.007708	0.004074	0.001163	0.011634
29-Aug-2024	13.115733	7.601430	11.565800	1.975170	27.114521	1.055610	0.017259	0.178115	0.031735	0.002032	0.001373	0.083977	0.000345	0.007763	0.004113	0.001174	0.011740
30-Aug-2024	12.380133	7.617810	11.598400	1.977950	27.166870	1.058300	0.017256	0.178040	0.031682	0.002037	0.001372	0.083964	0.000346	0.007767	0.004122	0.001176	0.011764
31-Aug-2024	10.695733	7.627610	11.617500	1.979480	27.197641	1.059820	0.017251	0.177955	0.031652	0.002040	0.001372	0.083967	0.000347	0.007771	0.004128	0.001178	0.011777
1-Sep-2024	9.938503	7.652410	11.660400	1.984730	27.281186	1.063540	0.017277	0.178186	0.031666	0.002048	0.001374	0.084125	0.000348	0.007788	0.004142	0.001181	0.011814
2-Sep-2024	9.889057	7.732750	11.792600	2.002890	27.556578	1.075630	0.017420	0.179614	0.031857	0.002071	0.001383	0.084789	0.000353	0.007857	0.004186	0.001193	0.011935
3-Sep-2024	10.496600	7.704310	11.753100	1.994580	27.451343	1.071990	0.017340	0.178768	0.031687	0.002064	0.001376	0.084389	0.000352	0.007823	0.004171	0.001189	0.011890
4-Sep-2024	9.826943	7.655520	11.694100	1.976930	27.256831	1.067100	0.017190	0.177176	0.031320	0.002054	0.001359	0.083471	0.000350	0.007757	0.004148	0.001181	0.011812
5-Sep-2024	9.564040	7.730610	11.817800	1.993610	27.513019	1.078570	0.017330	0.178585	0.031513	0.002076	0.001368	0.084079	0.000354	0.007822	0.004190	0.001193	0.011925
6-Sep-2024	9.350450	7.733940	11.829200	1.993000	27.518822	1.079600	0.017313	0.178383	0.031435	0.002078	0.001365	0.083975	0.000355	0.007817	0.004192	0.001193	0.011929
7-Sep-2024	9.325090	7.741530	11.850900	1.991830	27.532956	1.081920	0.017306	0.178281	0.031354	0.002082	0.001361	0.083805	0.000355	0.007813	0.004198	0.001194	0.011939
8-Sep-2024	8.737117	7.672530	11.761700	1.968990	27.266608	1.074310	0.017112	0.176237	0.030892	0.002066	0.001341	0.082652	0.000353	0.007726	0.004164	0.001183	0.011830
9-Sep-2024	8.111683	7.696710	11.811100	1.971260	27.336334	1.079270	0.017137	0.176453	0.030851	0.002074	0.001339	0.082614	0.000355	0.007737	0.004179	0.001186	0.011865
10-Sep-2024	7.612437	7.676130	11.789800	1.962830	27.250231	1.077670	0.017066	0.175700	0.030655	0.002071	0.001330	0.082140	0.000354	0.007705	0.004170	0.001183	0.011831
11-Sep-2024	7.919390	7.741880	11.905700	1.974950	27.464318	1.088800	0.017178	0.176816	0.030756	0.002091	0.001333	0.082471	0.000358	0.007755	0.004208	0.001193	0.011930
12-Sep-2024	8.166163	7.771230	11.953600	1.981610	27.565031	1.093250	0.017236	0.177397	0.030838	0.002099	0.001337	0.082717	0.000360	0.007782	0.004225	0.001197	0.011975
13-Sep-2024	8.786843	7.756670	11.941200	1.975090	27.501826	1.092350	0.017175	0.176750	0.030661	0.002097	0.001329	0.082320	0.000360	0.007755	0.004218	0.001195	0.011950
14-Sep-2024	8.684057	7.806460	12.036600	1.981620	27.653042	1.101870	0.017248	0.177448	0.030666	0.002113	0.001328	0.082369	0.000363	0.007786	0.004249	0.001202	0.012024
15-Sep-2024	8.719840	7.815970	12.062500	1.980390	27.671723	1.104690	0.017245	0.177391	0.030586	0.002118	0.001324	0.082187	0.000364	0.007784	0.004256	0.001204	0.012037
16-Sep-2024	8.753907	7.835250	12.106400	1.980860	27.721801	1.109230	0.017257	0.177477	0.030512	0.002125	0.001320	0.082035	0.000365	0.007788	0.004269	0.001206	0.012065
17-Sep-2024	9.100580	7.875870	12.184800	1.986030	27.844519	1.117080	0.017316	0.178046	0.030514	0.002138	0.001319	0.082055	0.000368	0.007813	0.004294	0.001213	0.012125
18-Sep-2024	9.357023	7.907690	12.239500	1.992370	27.950082	1.122270	0.017372	0.178613	0.030575	0.002147	0.001321	0.082247	0.000370	0.007839	0.004313	0.001217	0.012173
19-Sep-2024	8.632877	7.956110	12.334100	1.998260	28.095241	1.131740	0.017438	0.179241	0.030560	0.002163	0.001319	0.082248	0.000373	0.007867	0.004343	0.001225	0.012245
20-Sep-2024	7.968400	8.020960	12.444900	2.011450	28.311488	1.142220	0.017555	0.180405	0.030690	0.002183	0.001325	0.082671	0.000377	0.007919	0.004380	0.001234	0.012343
21-Sep-2024	7.752357	8.052530	12.495900	2.018780	28.420503	1.146950	0.017618	0.181049	0.030786	0.002192	0.001329	0.082948	0.000378	0.007948	0.004398	0.001239	0.012391
22-Sep-2024	7.463310	8.100260	12.577600	2.028780	28.580865	1.154560	0.017699	0.181855	0.030871	0.002206	0.001333	0.083259	0.000381	0.007986	0.004425	0.001246	0.012463
23-Sep-2024	7.025517	8.033170	12.488200	2.007280	28.324805	1.146940	0.017523	0.180009	0.030465	0.002190	0.001314	0.082183	0.000379	0.007904	0.004391	0.001236	0.012357
24-Sep-2024	6.280657	8.047050	12.517100	2.008500	28.364487	1.149840	0.017536	0.180120	0.030436	0.002195	0.001313	0.082136	0.000380	0.007910	0.004400	0.001238	0.012378
25-Sep-2024	5.827920	8.079760	12.576500	2.014040	28.468977	1.155600	0.017587	0.180629	0.030465	0.002205	0.001314	0.082256	0.000382	0.007933	0.004419	0.001243	0.012426
26-Sep-2024	5.054957	8.088530	12.599300	2.013380	28.488158	1.158020	0.017587	0.180599	0.030401	0.002209	0.001310	0.082115	0.000382	0.007932	0.004425	0.001244	0.012438
27-Sep-2024	4.684710	8.134140	12.681700	2.021180	28.634167	1.166030	0.017662	0.181343	0.030453	0.002223	0.001312	0.082285	0.000385	0.007965	0.004452	0.001251	0.012507
28-Sep-2024	4.197270	8.164050	12.746100	2.023010	28.716388	1.172660	0.017691	0.181607	0.030385	0.002233	0.001308	0.082126	0.000388	0.007976	0.004472	0.001255	0.012551
29-Sep-2024	4.219243	8.166130	12.757600	2.020970	28.713181	1.174030	0.017678	0.181454	0.030306	0.002235	0.001304	0.081931	0.000388	0.007969	0.004475	0.001255	0.012553
30-Sep-2024	3.597080	8.297430	12.981100	2.047600	29.150700	1.195330	0.017926	0.183948	0.030605	0.002273	0.001315	0.082769	0.000395	0.008078	0.004550	0.001275	0.012752
1-Oct-2024	3.114497	8.361390	13.088900	2.061200	29.366412	1.205470	0.018046	0.185158	0.030757	0.002291	0.001322	0.083205	0.000399	0.008132	0.004586	0.001285	0.012849
2-Oct-2024	2.964410	8.318140	13.022600	2.050170	29.212996	1.199400	0.017948	0.184155	0.030580	0.002280	0.001314	0.082737	0.000397	0.008088	0.004563	0.001278	0.012783
3-Oct-2024	3.069747	8.349930	13.078100	2.056220	29.317289	1.204720	0.018005	0.184722	0.030638	0.002289	0.001316	0.082904	0.000399	0.008113	0.004581	0.001283	0.012831
4-Oct-2024	2.969130	8.296070	12.999400	2.041160	29.120784	1.197700	0.017878	0.183400	0.030382	0.002275	0.001305	0.082220	0.000396	0.008055	0.004553	0.001275	0.012747
5-Oct-2024	2.756727	8.291090	12.995300	2.038770	29.098507	1.197470	0.017859	0.183205	0.030326	0.002274	0.001302	0.082071	0.000396	0.008046	0.004551	0.001274	0.012739
6-Oct-2024	2.311487	8.235300	12.910200	2.024340	28.899776	1.189700	0.017734	0.181913	0.030097	0.002259	0.001292	0.081458	0.000394	0.007990	0.004520	0.001265	0.012653
7-Oct-2024	1.535553	8.084700	12.677300	1.986370	28.367368	1.168350	0.017402	0.178502	0.029511	0.002218	0.001267	0.079889	0.000387	0.007840	0.004438	0.001242	0.012421
8-Oct-2024	0.779733	7.932070	12.439700	1.948380	27.829808	1.146510	0.017070	0.175085	0.028934	0.002177	0.001242	0.078339	0.000379	0.007690	0.004355	0.001219	0.012186
9-Oct-2024	0.192460	7.856640	12.322000	1.929700	27.564535	1.135680	0.016906	0.173404	0.028651	0.002156	0.001230	0.077580	0.000376	0.007616	0.004313	0.001207	0.012070
10-Oct-2024	0.098651	7.830240	12.280900	1.923120	27.471517	1.131900	0.016848	0.172812	0.028551	0.002149	0.001226	0.077311	0.000375	0.007590	0.004299	0.001203	0.012029

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Oct-2024	0.054943	7.809540	12.249100	1.917870	27.398210	1.128990	0.016802	0.172339	0.028468	0.002143	0.001222	0.077093	0.000374	0.007569	0.004288	0.001200	0.011997
12-Oct-2024	0.027346	7.819380	12.265200	1.920090	27.431922	1.130500	0.016822	0.172537	0.028496	0.002146	0.001223	0.077173	0.000374	0.007578	0.004293	0.001201	0.012012
13-Oct-2024	0.012072	7.850250	12.314200	1.927510	27.539560	1.135030	0.016887	0.173201	0.028601	0.002155	0.001228	0.077464	0.000376	0.007607	0.004310	0.001206	0.012060
14-Oct-2024	0.053707	7.865570	12.338500	1.931220	27.593092	1.137270	0.016919	0.173533	0.028654	0.002159	0.001230	0.077611	0.000376	0.007622	0.004319	0.001208	0.012083
15-Oct-2024	0.098195	7.860480	12.330500	1.929970	27.575235	1.136540	0.016908	0.173419	0.028635	0.002158	0.001229	0.077560	0.000376	0.007617	0.004316	0.001208	0.012075
16-Oct-2024	0.113097	7.876470	12.355600	1.933900	27.631346	1.138850	0.016943	0.173773	0.028693	0.002162	0.001232	0.077719	0.000377	0.007632	0.004325	0.001210	0.012100
17-Oct-2024	0.108539	7.974770	12.509800	1.958030	27.976168	1.153070	0.017154	0.175941	0.029051	0.002189	0.001247	0.078688	0.000382	0.007728	0.004379	0.001225	0.012251
18-Oct-2024	0.110102	7.996780	12.544300	1.963430	28.053364	1.156250	0.017201	0.176426	0.029131	0.002195	0.001251	0.078905	0.000383	0.007749	0.004391	0.001228	0.012285
19-Oct-2024	0.111705	7.990550	12.534600	1.961900	28.031508	1.155350	0.017188	0.176288	0.029108	0.002194	0.001250	0.078843	0.000382	0.007743	0.004387	0.001228	0.012275
20-Oct-2024	0.110823	8.018930	12.579100	1.968870	28.131075	1.159460	0.017249	0.176914	0.029211	0.002201	0.001254	0.079123	0.000384	0.007770	0.004403	0.001232	0.012319
21-Oct-2024	0.110209	8.056560	12.638100	1.978110	28.263087	1.164900	0.017330	0.177744	0.029349	0.002212	0.001260	0.079495	0.000386	0.007807	0.004424	0.001238	0.012376
22-Oct-2024	0.107832	8.103770	12.712200	1.989700	28.428698	1.171720	0.017431	0.178786	0.029521	0.002225	0.001267	0.079961	0.000388	0.007853	0.004449	0.001245	0.012449
23-Oct-2024	0.109000	8.146550	12.779300	2.000200	28.578759	1.177910	0.017524	0.179730	0.029676	0.002236	0.001274	0.080383	0.000390	0.007894	0.004473	0.001251	0.012515
24-Oct-2024	0.111534	8.190430	12.848100	2.010980	28.732719	1.184250	0.017618	0.180698	0.029836	0.002248	0.001281	0.080816	0.000392	0.007937	0.004497	0.001258	0.012582
25-Oct-2024	0.111996	8.238580	12.923600	2.022800	28.901625	1.191210	0.017721	0.181760	0.030012	0.002262	0.001289	0.081291	0.000394	0.007983	0.004523	0.001266	0.012656
26-Oct-2024	0.111456	8.295310	13.012600	2.036730	29.100643	1.199420	0.017843	0.183012	0.030218	0.002277	0.001297	0.081851	0.000397	0.008038	0.004555	0.001274	0.012743
27-Oct-2024	0.111364	8.332530	13.071000	2.045870	29.231220	1.204800	0.017924	0.183833	0.030354	0.002287	0.001303	0.082218	0.000399	0.008074	0.004575	0.001280	0.012800
28-Oct-2024	0.111085	8.389430	13.160300	2.059840	29.430828	1.213030	0.018046	0.185089	0.030561	0.002303	0.001312	0.082779	0.000401	0.008129	0.004606	0.001289	0.012888
29-Oct-2024	0.110900	8.423620	13.213900	2.068230	29.550750	1.217970	0.018119	0.185843	0.030686	0.002312	0.001317	0.083117	0.000403	0.008163	0.004625	0.001294	0.012940
30-Oct-2024	0.110776	8.465480	13.279600	2.078510	29.697608	1.224020	0.018210	0.186766	0.030838	0.002324	0.001324	0.083530	0.000405	0.008203	0.004648	0.001300	0.013005
31-Oct-2024	0.110661	8.507980	13.346200	2.088940	29.846681	1.230170	0.018301	0.187704	0.030993	0.002336	0.001331	0.083949	0.000407	0.008244	0.004671	0.001307	0.013070
1-Nov-2024	0.110563	8.546670	13.406900	2.098450	29.982452	1.235760	0.018384	0.188558	0.031134	0.002346	0.001337	0.084331	0.000409	0.008282	0.004693	0.001313	0.013129
2-Nov-2024	0.110548	8.595200	13.483100	2.110360	30.152677	1.242780	0.018489	0.189628	0.031311	0.002360	0.001344	0.084810	0.000411	0.008329	0.004719	0.001320	0.013204
3-Nov-2024	0.110576	8.634780	13.545200	2.120080	30.291535	1.248500	0.018574	0.190502	0.031455	0.002370	0.001350	0.085200	0.000413	0.008367	0.004741	0.001326	0.013265
4-Nov-2024	0.110734	8.682940	13.620700	2.131900	30.460465	1.255460	0.018677	0.191564	0.031630	0.002384	0.001358	0.085675	0.000415	0.008414	0.004767	0.001334	0.013339
5-Nov-2024	0.110805	8.730740	13.695700	2.143640	30.628167	1.262370	0.018780	0.192619	0.031805	0.002397	0.001366	0.086147	0.000418	0.008460	0.004794	0.001341	0.013412
6-Nov-2024	0.110839	8.773960	13.763500	2.154260	30.779821	1.268620	0.018873	0.193572	0.031962	0.002409	0.001372	0.086574	0.000420	0.008502	0.004817	0.001348	0.013479
7-Nov-2024	0.110932	8.820880	13.837100	2.165780	30.944419	1.275410	0.018974	0.194607	0.032133	0.002422	0.001380	0.087037	0.000422	0.008547	0.004843	0.001355	0.013551
8-Nov-2024	0.110981	8.869070	13.912600	2.177610	31.113466	1.282370	0.019078	0.195670	0.032308	0.002435	0.001387	0.087513	0.000424	0.008594	0.004870	0.001362	0.013625
9-Nov-2024	0.111054	8.916400	13.986900	2.189230	31.279500	1.289220	0.019179	0.196715	0.032481	0.002448	0.001395	0.087980	0.000427	0.008640	0.004896	0.001370	0.013697
10-Nov-2024	0.111111	8.965340	14.063700	2.201250	31.451201	1.296290	0.019285	0.197794	0.032659	0.002461	0.001402	0.088463	0.000429	0.008687	0.004922	0.001377	0.013772
11-Nov-2024	0.111174	9.014810	14.141300	2.213400	31.624762	1.303450	0.019391	0.198886	0.032839	0.002475	0.001410	0.088951	0.000431	0.008735	0.004950	0.001385	0.013848
12-Nov-2024	0.111235	9.070830	14.229100	2.227160	31.821307	1.311550	0.019512	0.200122	0.033043	0.002490	0.001419	0.089504	0.000434	0.008790	0.004980	0.001393	0.013935
13-Nov-2024	0.111323	9.128190	14.319100	2.241240	32.022517	1.319840	0.019635	0.201387	0.033252	0.002506	0.001428	0.090070	0.000437	0.008845	0.005012	0.001402	0.014023
14-Nov-2024	0.111314	9.184930	14.408100	2.255170	32.221560	1.328040	0.019757	0.202639	0.033459	0.002521	0.001437	0.090630	0.000439	0.008900	0.005043	0.001411	0.014110
15-Nov-2024	0.111254	9.254280	14.516900	2.272200	32.464857	1.338070	0.019906	0.204169	0.033712	0.002541	0.001447	0.091315	0.000443	0.008967	0.005081	0.001422	0.014216
16-Nov-2024	0.111191	9.310660	14.605400	2.286040	32.662631	1.346220	0.020028	0.205413	0.033917	0.002556	0.001456	0.091871	0.000446	0.009022	0.005112	0.001430	0.014303
17-Nov-2024	0.111194	9.384310	14.720900	2.304120	32.920988	1.356870	0.020186	0.207038	0.034185	0.002576	0.001468	0.092598	0.000449	0.009093	0.005153	0.001442	0.014416
18-Nov-2024	0.111175	9.447110	14.819400	2.319540	33.141299	1.365950	0.020321	0.208423	0.034414	0.002593	0.001478	0.093217	0.000452	0.009154	0.005187	0.001451	0.014513
19-Nov-2024	0.111165	9.511490	14.920400	2.335350	33.367162	1.375260	0.020460	0.209844	0.034649	0.002611	0.001488	0.093853	0.000455	0.009217	0.005222	0.001461	0.014611
20-Nov-2024	0.111156	9.522260	14.937300	2.338000	33.404967	1.376820	0.020483	0.210081	0.034688	0.002614	0.001489	0.093959	0.000456	0.009227	0.005228	0.001463	0.014628
21-Nov-2024	0.111153	9.564420	15.003400	2.348350	33.552862	1.382910	0.020573	0.211011	0.034841	0.002626	0.001496	0.094375	0.000458	0.009268	0.005251	0.001469	0.014693
22-Nov-2024	0.111151	9.625010	15.098500	2.363220	33.765390	1.391670	0.020704	0.212348	0.035062	0.002642	0.001505	0.094973	0.000461	0.009327	0.005285	0.001479	0.014786
23-Nov-2024	0.111150	9.681530	15.187100	2.377100	33.963678	1.399840	0.020825	0.213595	0.035268	0.002658	0.001514	0.095531	0.000463	0.009381	0.005316	0.001487	0.014873
24-Nov-2024	0.111150	9.718350	15.244900	2.386140	34.092844	1.405170	0.020904	0.214408	0.035402	0.002668	0.001520	0.095894	0.000465	0.009417	0.005336	0.001493	0.014929
25-Nov-2024	0.111147	9.713910	15.237900	2.385050	34.077269	1.404530	0.020895	0.214310	0.035386	0.002667	0.001519	0.095850	0.000465	0.009413	0.005333	0.001492	0.014922
26-Nov-2024	0.111147	9.766040	15.319700	2.397850	34.260148	1.412060	0.021007	0.215460	0.035576	0.002681	0.001527	0.096364	0.000467	0.009463	0.005362	0.001500	0.015003
27-Nov-2024	0.111147	9.818340	15.401700	2.410690	34.443616	1.419630	0.021120	0.216614	0.035766	0.002695	0.001536	0.096880	0.000470	0.009514	0.005391	0.001508	0.015083
28-Nov-2024	0.111149	9.873090	15.487600	2.424140	34.635714	1.427540	0.021237	0.217822	0.035966	0.002710	0.001544	0.097421	0.000472	0.009567	0.005421	0.001517	0.015167
29-Nov-2024	0.111151	9.936020	15.586300	2.439590	34.856474	1.436640	0.021373	0.219210	0.036195	0.002728	0.001554	0.098042	0.000475	0.009628	0.005455	0.001526	0.015264
30-Nov-2024	0.111150	9.984990	15.663100	2.451610	35.028250	1.443720	0.021478	0.220290	0.036374	0.002741	0.001562	0.098525	0.000478	0.009675	0.005482	0.001534	0.015339

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
1-Dec-2024	0.111149	10.027600	15.729900	2.462070	35.177721	1.449880	0.021570	0.221230	0.036529	0.002753	0.001568	0.098945	0.000480	0.009717	0.005506	0.001540	0.015404
2-Dec-2024	0.111150	10.096100	15.837500	2.478900	35.418072	1.459790	0.021717	0.222743	0.036778	0.002772	0.001579	0.099622	0.000483	0.009783	0.005543	0.001551	0.015510
3-Dec-2024	0.111150	10.142900	15.910900	2.490390	35.582247	1.466560	0.021818	0.223775	0.036949	0.002784	0.001586	0.100083	0.000485	0.009829	0.005569	0.001558	0.015581
4-Dec-2024	0.111148	10.185100	15.977000	2.500740	35.730242	1.472650	0.021908	0.224704	0.037102	0.002796	0.001593	0.100499	0.000487	0.009869	0.005592	0.001565	0.015646
5-Dec-2024	0.111148	10.257300	16.090300	2.518460	35.983496	1.483090	0.022064	0.226297	0.037365	0.002816	0.001604	0.101211	0.000491	0.009939	0.005632	0.001576	0.015757
6-Dec-2024	0.111147	10.287200	16.137300	2.525820	36.088465	1.487420	0.022128	0.226959	0.037475	0.002824	0.001609	0.101507	0.000492	0.009968	0.005648	0.001580	0.015803
7-Dec-2024	0.111147	10.340700	16.221200	2.538960	36.276165	1.495160	0.022243	0.228139	0.037669	0.002839	0.001617	0.102035	0.000495	0.010020	0.005678	0.001589	0.015885
8-Dec-2024	0.111147	10.397200	16.309700	2.552810	36.474280	1.503320	0.022365	0.229384	0.037875	0.002854	0.001626	0.102592	0.000498	0.010075	0.005709	0.001597	0.015972
9-Dec-2024	0.111147	10.445300	16.385200	2.564630	36.643060	1.510280	0.022468	0.230446	0.038050	0.002867	0.001634	0.103067	0.000500	0.010122	0.005735	0.001605	0.016046
10-Dec-2024	0.111146	10.504600	16.478300	2.579190	36.851091	1.518850	0.022596	0.231754	0.038266	0.002884	0.001643	0.103652	0.000503	0.010179	0.005768	0.001614	0.016137
11-Dec-2024	0.111146	10.556000	16.558900	2.591810	37.031406	1.526280	0.022706	0.232888	0.038454	0.002898	0.001651	0.104159	0.000505	0.010229	0.005796	0.001622	0.016216
12-Dec-2024	0.111146	10.613000	16.648200	2.605800	37.231345	1.534520	0.022829	0.234144	0.038661	0.002913	0.001660	0.104721	0.000508	0.010284	0.005827	0.001630	0.016304
13-Dec-2024	0.111146	10.670300	16.738200	2.619880	37.432405	1.542810	0.022952	0.235410	0.038870	0.002929	0.001669	0.105287	0.000511	0.010340	0.005859	0.001639	0.016392
14-Dec-2024	0.111146	10.730200	16.832100	2.634580	37.642510	1.551470	0.023081	0.236731	0.039088	0.002946	0.001678	0.105878	0.000513	0.010398	0.005891	0.001648	0.016484
15-Dec-2024	0.111146	10.791200	16.927800	2.649550	37.856473	1.560290	0.023212	0.238076	0.039310	0.002962	0.001688	0.106480	0.000516	0.010457	0.005925	0.001658	0.016577
16-Dec-2024	0.111146	10.834500	16.995700	2.660190	38.008409	1.566550	0.023305	0.239032	0.039468	0.002974	0.001695	0.106907	0.000518	0.010499	0.005949	0.001664	0.016644
17-Dec-2024	0.111146	10.892300	17.086400	2.674390	38.211211	1.574910	0.023430	0.240308	0.039679	0.002990	0.001704	0.107478	0.000521	0.010555	0.005980	0.001673	0.016733
18-Dec-2024	0.111146	10.961700	17.195300	2.691430	38.454674	1.584950	0.023579	0.241839	0.039932	0.003009	0.001714	0.108163	0.000525	0.010622	0.006019	0.001684	0.016839
19-Dec-2024	0.111146	11.010700	17.272100	2.703450	38.626525	1.592030	0.023684	0.242919	0.040110	0.003023	0.001722	0.108646	0.000527	0.010669	0.006045	0.001691	0.016915
20-Dec-2024	0.111146	11.057300	17.345200	2.714890	38.789995	1.598760	0.023785	0.243947	0.040280	0.003035	0.001729	0.109106	0.000529	0.010715	0.006071	0.001699	0.016986
21-Dec-2024	0.111146	11.114900	17.435600	2.729040	38.992092	1.607100	0.023909	0.245219	0.040490	0.003051	0.001738	0.109674	0.000532	0.010770	0.006103	0.001707	0.017075
22-Dec-2024	0.111146	11.183800	17.543700	2.745960	39.233812	1.617060	0.024057	0.246739	0.040741	0.003070	0.001749	0.110354	0.000535	0.010837	0.006141	0.001718	0.017180
23-Dec-2024	0.111146	11.246200	17.641600	2.761280	39.452712	1.626080	0.024191	0.248116	0.040968	0.003087	0.001759	0.110970	0.000538	0.010898	0.006175	0.001728	0.017276
24-Dec-2024	0.111146	11.283500	17.700100	2.770440	39.583571	1.631480	0.024271	0.248939	0.041104	0.003098	0.001765	0.111338	0.000540	0.010934	0.006195	0.001733	0.017334
25-Dec-2024	0.111146	11.343200	17.793700	2.785090	39.792971	1.640110	0.024400	0.250255	0.041321	0.003114	0.001774	0.111927	0.000543	0.010992	0.006228	0.001743	0.017425
26-Dec-2024	0.111146	11.417100	17.909600	2.803230	40.052200	1.650790	0.024559	0.251885	0.041590	0.003134	0.001786	0.112656	0.000546	0.011063	0.006269	0.001754	0.017539
27-Dec-2024	0.111146	11.485300	18.016700	2.819990	40.291513	1.660660	0.024705	0.253391	0.041839	0.003153	0.001796	0.113329	0.000550	0.011129	0.006306	0.001764	0.017644
28-Dec-2024	0.111146	11.527900	18.083400	2.830440	40.440918	1.666810	0.024797	0.254330	0.041994	0.003165	0.001803	0.113749	0.000552	0.011171	0.006329	0.001771	0.017709
29-Dec-2024	0.111146	11.591300	18.183000	2.846020	40.663386	1.675980	0.024933	0.255730	0.042225	0.003182	0.001813	0.114375	0.000555	0.011232	0.006364	0.001781	0.017807
30-Dec-2024	0.111146	11.679600	18.321500	2.867690	40.973109	1.688750	0.025123	0.257677	0.042547	0.003206	0.001827	0.115246	0.000559	0.011318	0.006413	0.001794	0.017942
31-Dec-2024	0.111146	11.739800	18.415800	2.882460	41.184251	1.697440	0.025253	0.259004	0.042766	0.003223	0.001836	0.115840	0.000562	0.011376	0.006446	0.001803	0.018035
1-Jan-2025	0.111146	11.778700	18.476900	2.892020	41.320752	1.703070	0.025336	0.259864	0.042908	0.003234	0.001842	0.116224	0.000564	0.011414	0.006467	0.001809	0.018094
2-Jan-2025	0.111146	11.848800	18.586800	2.909230	41.566663	1.713200	0.025487	0.261409	0.043163	0.003253	0.001853	0.116915	0.000567	0.011482	0.006506	0.001820	0.018202
3-Jan-2025	0.111146	11.950100	18.745800	2.934100	41.922024	1.727850	0.025705	0.263645	0.043532	0.003281	0.001869	0.117915	0.000572	0.011580	0.006561	0.001836	0.018358
4-Jan-2025	0.111146	11.971200	18.778900	2.939290	41.996083	1.730910	0.025750	0.264111	0.043609	0.003286	0.001872	0.118124	0.000573	0.011600	0.006573	0.001839	0.018390
5-Jan-2025	0.111146	12.031200	18.873000	2.954020	42.206561	1.739580	0.025880	0.265434	0.043828	0.003303	0.001882	0.118716	0.000576	0.011658	0.006606	0.001848	0.018482
6-Jan-2025	0.111146	12.100000	18.981000	2.970920	42.447949	1.749530	0.026028	0.266953	0.044078	0.003322	0.001892	0.119395	0.000579	0.011725	0.006644	0.001859	0.018588
7-Jan-2025	0.111146	12.179400	19.105400	2.990400	42.726429	1.761010	0.026198	0.268703	0.044367	0.003344	0.001905	0.120177	0.000583	0.011802	0.006687	0.001871	0.018710
8-Jan-2025	0.111146	12.216800	19.164200	2.999600	42.857702	1.766420	0.026279	0.269529	0.044504	0.003354	0.001911	0.120547	0.000585	0.011838	0.006708	0.001877	0.018767
9-Jan-2025	0.111146	12.279900	19.263100	3.015080	43.079010	1.775540	0.026414	0.270921	0.044733	0.003371	0.001921	0.121169	0.000588	0.011899	0.006742	0.001886	0.018864
10-Jan-2025	0.111146	12.347400	19.369100	3.031660	43.315834	1.785310	0.026560	0.272411	0.044979	0.003390	0.001931	0.121836	0.000591	0.011965	0.006779	0.001897	0.018968
11-Jan-2025	0.111146	12.437700	19.510600	3.053820	43.632568	1.798350	0.026754	0.274402	0.045308	0.003414	0.001945	0.122726	0.000595	0.012052	0.006829	0.001911	0.019107
12-Jan-2025	0.111146	12.517900	19.636500	3.073520	43.913952	1.809950	0.026926	0.276172	0.045600	0.003436	0.001958	0.123518	0.000599	0.012130	0.006873	0.001923	0.019230
13-Jan-2025	0.111146	12.559800	19.702100	3.083790	44.060868	1.816000	0.027016	0.277095	0.045753	0.003448	0.001964	0.123931	0.000601	0.012170	0.006896	0.001929	0.019294
14-Jan-2025	0.111146	12.607800	19.777500	3.095600	44.229357	1.822960	0.027120	0.278156	0.045928	0.003461	0.001972	0.124405	0.000603	0.012217	0.006922	0.001937	0.019368
15-Jan-2025	0.111146	12.678300	19.888000	3.112900	44.476637	1.833140	0.027271	0.279710	0.046185	0.003480	0.001983	0.125100	0.000607	0.012285	0.006961	0.001948	0.019476
16-Jan-2025	0.111146	12.744400	19.991700	3.129120	44.708483	1.842700	0.027414	0.281168	0.046425	0.003499	0.001993	0.125752	0.000610	0.012349	0.006997	0.001958	0.019578
17-Jan-2025	0.111146	12.802900	20.083600	3.143500	44.913774	1.851170	0.027540	0.282460	0.046639	0.003515	0.002002	0.126330	0.000613	0.012406	0.007030	0.001967	0.019668
18-Jan-2025	0.111146	12.867500	20.184900	3.159360	45.140392	1.860500	0.027678	0.283885	0.046874	0.003532	0.002013	0.126968	0.000616	0.012469	0.007065	0.001977	0.019767
19-Jan-2025	0.111146	12.936800	20.293600	3.176370	45.383481	1.870530	0.027828	0.285414	0.047127	0.003551	0.002023	0.127651	0.000619	0.012536	0.007103	0.001987	0.019873
20-Jan-2025	0.111146	13.003700	20.398500	3.192800	45.618189	1.880200	0.027971	0.286890	0.047370	0.003570	0.002034	0.128311	0.000622	0.012601	0.007140	0.001998	0.019976

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21-Jan-2025	0.111146	13.068100	20.499500	3.208600	45.844061	1.889500	0.028110	0.288310	0.047605	0.003587	0.002044	0.128946	0.000625	0.012663	0.007175	0.002008	0.020075
22-Jan-2025	0.111146	13.135400	20.605000	3.225120	46.080138	1.899230	0.028255	0.289794	0.047850	0.003606	0.002054	0.129610	0.000629	0.012728	0.007212	0.002018	0.020178
23-Jan-2025	0.111146	13.204900	20.714100	3.242190	46.323974	1.909280	0.028404	0.291328	0.048103	0.003625	0.002065	0.130296	0.000632	0.012796	0.007250	0.002029	0.020285
24-Jan-2025	0.111146	13.274400	20.823200	3.259260	46.567809	1.919330	0.028554	0.292862	0.048356	0.003644	0.002076	0.130982	0.000635	0.012863	0.007288	0.002039	0.020392
25-Jan-2025	0.111146	13.342600	20.930100	3.276000	46.807040	1.929190	0.028700	0.294366	0.048605	0.003663	0.002087	0.131655	0.000638	0.012929	0.007326	0.002050	0.020497
26-Jan-2025	0.111146	13.419700	21.051100	3.294940	47.077554	1.940350	0.028866	0.296068	0.048886	0.003684	0.002099	0.132416	0.000642	0.013004	0.007368	0.002062	0.020615
27-Jan-2025	0.111146	13.447000	21.094000	3.301650	47.173354	1.944300	0.028925	0.296670	0.048985	0.003692	0.002103	0.132686	0.000643	0.013030	0.007383	0.002066	0.020657
28-Jan-2025	0.111146	13.511800	21.195600	3.317550	47.400636	1.953660	0.029064	0.298099	0.049221	0.003709	0.002113	0.133325	0.000647	0.013093	0.007419	0.002076	0.020757
29-Jan-2025	0.111146	13.584000	21.308900	3.335290	47.653972	1.964110	0.029220	0.299693	0.049484	0.003729	0.002125	0.134038	0.000650	0.013163	0.007458	0.002087	0.020868
30-Jan-2025	0.111146	13.654200	21.418900	3.352500	47.900132	1.974240	0.029371	0.301240	0.049740	0.003748	0.002136	0.134730	0.000653	0.013231	0.007497	0.002098	0.020975
31-Jan-2025	0.111146	13.755100	21.577200	3.377280	48.254124	1.988830	0.029588	0.303466	0.050107	0.003776	0.002151	0.135725	0.000658	0.013329	0.007552	0.002113	0.021130
1-Feb-2025	0.111146	13.853400	21.731500	3.401430	48.599029	2.003060	0.029799	0.305637	0.050466	0.003803	0.002167	0.136696	0.000663	0.013424	0.007606	0.002128	0.021282
2-Feb-2025	0.111146	13.950000	21.882900	3.425140	48.937877	2.017020	0.030007	0.307767	0.050817	0.003830	0.002182	0.137649	0.000668	0.013518	0.007659	0.002143	0.021430
3-Feb-2025	0.111146	14.044000	22.030400	3.448210	49.267597	2.030610	0.030209	0.309840	0.051160	0.003855	0.002197	0.138576	0.000672	0.013609	0.007711	0.002157	0.021574
4-Feb-2025	0.111146	14.135300	22.173600	3.470630	49.587898	2.043810	0.030405	0.311855	0.051492	0.003880	0.002211	0.139477	0.000676	0.013697	0.007761	0.002171	0.021714
5-Feb-2025	0.111146	14.249400	22.352500	3.498640	49.988151	2.060300	0.030651	0.314371	0.051908	0.003912	0.002229	0.140603	0.000682	0.013808	0.007824	0.002189	0.021890
6-Feb-2025	0.111146	14.356500	22.520600	3.524940	50.363883	2.075790	0.030881	0.316735	0.052298	0.003941	0.002245	0.141660	0.000687	0.013912	0.007883	0.002205	0.022054
7-Feb-2025	0.111146	14.223200	22.311500	3.492220	49.896292	2.056520	0.030595	0.313794	0.051813	0.003905	0.002225	0.140344	0.000681	0.013782	0.007809	0.002185	0.021850
8-Feb-2025	0.111146	14.296800	22.427000	3.510290	50.154484	2.067160	0.030753	0.315418	0.052081	0.003925	0.002236	0.141071	0.000684	0.013854	0.007850	0.002196	0.021963
9-Feb-2025	0.111146	14.372300	22.545300	3.528810	50.419273	2.078070	0.030915	0.317083	0.052356	0.003946	0.002248	0.141815	0.000688	0.013927	0.007891	0.002208	0.022079
10-Feb-2025	0.111146	14.449200	22.666100	3.547710	50.689122	2.089200	0.031081	0.318781	0.052636	0.003967	0.002260	0.142575	0.000691	0.014001	0.007933	0.002220	0.022197
11-Feb-2025	0.111146	14.526900	22.787900	3.566790	50.961711	2.100430	0.031248	0.320495	0.052919	0.003988	0.002272	0.143341	0.000695	0.014077	0.007976	0.002232	0.022316
12-Feb-2025	0.111146	14.604500	22.909600	3.585840	51.233926	2.111650	0.031415	0.322206	0.053202	0.004009	0.002284	0.144107	0.000699	0.014152	0.008019	0.002244	0.022435
13-Feb-2025	0.111146	14.681900	23.031000	3.604840	51.505435	2.122840	0.031581	0.323914	0.053483	0.004031	0.002296	0.144870	0.000703	0.014227	0.008061	0.002255	0.022554
14-Feb-2025	0.111146	14.762000	23.156700	3.624510	51.786446	2.134430	0.031754	0.325682	0.053775	0.004053	0.002309	0.145661	0.000706	0.014304	0.008105	0.002268	0.022677
15-Feb-2025	0.111146	14.841800	23.281800	3.644090	52.066337	2.145960	0.031925	0.327441	0.054066	0.004074	0.002321	0.146448	0.000710	0.014382	0.008149	0.002280	0.022800
16-Feb-2025	0.111146	14.911200	23.390800	3.661150	52.309882	2.156000	0.032075	0.328973	0.054319	0.004093	0.002332	0.147133	0.000713	0.014449	0.008187	0.002291	0.022906
17-Feb-2025	0.111146	14.994900	23.522100	3.681690	52.603465	2.168100	0.032255	0.330820	0.054624	0.004116	0.002345	0.147959	0.000718	0.014530	0.008233	0.002304	0.023035
18-Feb-2025	0.111146	15.255200	23.930400	3.745610	53.516656	2.205740	0.032814	0.336562	0.055572	0.004188	0.002386	0.150528	0.000730	0.014782	0.008376	0.002343	0.023435
19-Feb-2025	0.111146	15.598500	24.468900	3.829900	54.720983	2.255380	0.033553	0.344137	0.056823	0.004282	0.002440	0.153915	0.000746	0.015115	0.008564	0.002396	0.023962
20-Feb-2025	0.111146	15.877100	24.906000	3.898310	55.698359	2.295660	0.034152	0.350284	0.057838	0.004359	0.002483	0.156664	0.000760	0.015385	0.008717	0.002439	0.024390
21-Feb-2025	0.111146	16.197700	25.408800	3.977010	56.822984	2.342010	0.034842	0.357355	0.059005	0.004447	0.002533	0.159827	0.000775	0.015696	0.008893	0.002488	0.024883
22-Feb-2025	0.111146	16.552200	25.964900	4.064060	58.066642	2.393270	0.035604	0.365177	0.060297	0.004544	0.002589	0.163325	0.000792	0.016039	0.009088	0.002543	0.025427
23-Feb-2025	0.111146	16.831200	26.402600	4.132560	59.045388	2.433610	0.036204	0.371333	0.061313	0.004621	0.002632	0.166079	0.000805	0.016310	0.009241	0.002586	0.025856
24-Feb-2025	0.111146	17.045700	26.739000	4.185220	59.797849	2.464620	0.036666	0.376064	0.062094	0.004679	0.002666	0.168195	0.000816	0.016517	0.009359	0.002619	0.026185
25-Feb-2025	0.111146	17.227900	27.024900	4.229960	60.437042	2.490970	0.037058	0.380084	0.062758	0.004729	0.002694	0.169993	0.000824	0.016694	0.009459	0.002647	0.026465
26-Feb-2025	0.111146	17.409500	27.309700	4.274540	61.074077	2.517220	0.037448	0.384090	0.063419	0.004779	0.002723	0.171784	0.000833	0.016870	0.009559	0.002674	0.026744
27-Feb-2025	0.111146	17.609800	27.624000	4.323740	61.776832	2.546190	0.037879	0.388511	0.064149	0.004834	0.002754	0.173761	0.000843	0.017064	0.009669	0.002705	0.027052
28-Feb-2025	0.111146	17.825600	27.962400	4.376710	62.533815	2.577380	0.038343	0.393270	0.064935	0.004894	0.002788	0.175890	0.000853	0.017273	0.009787	0.002738	0.027383
1-Mar-2025	0.111146	18.038000	28.295700	4.428860	63.278931	2.608100	0.038800	0.397957	0.065709	0.004952	0.002821	0.177986	0.000863	0.017479	0.009904	0.002771	0.027710
2-Mar-2025	0.111146	15.431500	24.206900	3.788890	54.135105	2.231230	0.033194	0.340452	0.056214	0.004236	0.002414	0.152267	0.000738	0.014953	0.008473	0.002371	0.023706
3-Mar-2025	0.111146	15.494800	24.306300	3.804440	54.357200	2.240390	0.033330	0.341849	0.056445	0.004254	0.002423	0.152892	0.000741	0.015015	0.008508	0.002380	0.023803
4-Mar-2025	0.111146	15.566700	24.419000	3.822080	54.609375	2.250770	0.033484	0.343434	0.056707	0.004273	0.002435	0.153601	0.000745	0.015084	0.008547	0.002391	0.023913
5-Mar-2025	0.111146	15.646300	24.544000	3.841640	54.888685	2.262290	0.033656	0.345192	0.056997	0.004295	0.002447	0.154387	0.000749	0.015161	0.008591	0.002404	0.024036
6-Mar-2025	0.111146	15.732100	24.678500	3.862700	55.189652	2.274690	0.033840	0.347084	0.057309	0.004319	0.002461	0.155233	0.000753	0.015245	0.008638	0.002417	0.024167
7-Mar-2025	0.111146	15.823400	24.821700	3.885120	55.509954	2.287900	0.034037	0.349099	0.057642	0.004344	0.002475	0.156134	0.000757	0.015333	0.008688	0.002431	0.024308
8-Mar-2025	0.111146	15.920900	24.974700	3.909060	55.851996	2.301990	0.034246	0.351249	0.057997	0.004371	0.002490	0.157096	0.000762	0.015427	0.008741	0.002446	0.024458
9-Mar-2025	0.111146	16.025100	25.138000	3.934630	56.217481	2.317050	0.034470	0.353547	0.058376	0.004399	0.002506	0.158124	0.000767	0.015528	0.008799	0.002462	0.024618
10-Mar-2025	0.111146	16.135000	25.310500	3.961620	56.603046	2.332950	0.034707	0.355973	0.058777	0.004429	0.002524	0.159209	0.000772	0.015635	0.008859	0.002479	0.024786
11-Mar-2025	0.111146	16.248500	25.488500	3.989490	57.001224	2.349360	0.034951	0.358477	0.059190	0.004461	0.002541	0.160329	0.000777	0.015745	0.008921	0.002496	0.024961
12-Mar-2025	0.111146	16.362300	25.667000	4.017430	57.400440	2.365810	0.035196	0.360987	0.059605	0.004492	0.002559	0.161452	0.000783	0.015855	0.008984	0.002514	0.025136

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Mar-2025	0.111146	16.473300	25.841100	4.044680	57.789822	2.381860	0.035435	0.363436	0.060009	0.004522	0.002576	0.162547	0.000788	0.015963	0.009045	0.002531	0.025306
14-Mar-2025	0.111146	16.581300	26.010500	4.071190	58.168667	2.397470	0.035667	0.365818	0.060403	0.004552	0.002593	0.163612	0.000793	0.016067	0.009104	0.002547	0.025472
15-Mar-2025	0.111146	16.777400	26.318100	4.119340	58.856610	2.425830	0.036089	0.370144	0.061117	0.004606	0.002624	0.165547	0.000803	0.016257	0.009212	0.002577	0.025773
16-Mar-2025	0.111146	16.952500	26.592900	4.162350	59.470950	2.451150	0.036465	0.374009	0.061755	0.004654	0.002651	0.167276	0.000811	0.016427	0.009308	0.002604	0.026042
17-Mar-2025	0.111146	17.138300	26.884300	4.207960	60.122714	2.478010	0.036865	0.378108	0.062432	0.004705	0.002680	0.169109	0.000820	0.016607	0.009410	0.002633	0.026328
18-Mar-2025	0.111146	17.332200	27.188400	4.255560	60.802899	2.506040	0.037282	0.382385	0.063138	0.004758	0.002711	0.171022	0.000829	0.016795	0.009516	0.002663	0.026625
19-Mar-2025	0.111146	17.532000	27.501900	4.304620	61.503829	2.534930	0.037712	0.386793	0.063866	0.004813	0.002742	0.172993	0.000839	0.016989	0.009626	0.002693	0.026932
20-Mar-2025	0.111146	17.736800	27.823200	4.354920	62.222350	2.564550	0.038152	0.391312	0.064612	0.004869	0.002774	0.175014	0.000849	0.017187	0.009738	0.002725	0.027247
21-Mar-2025	0.111146	17.852700	28.004900	4.383360	62.628868	2.581300	0.038402	0.393868	0.065034	0.004901	0.002792	0.176157	0.000854	0.017299	0.009802	0.002743	0.027425
22-Mar-2025	0.111146	18.051000	28.316000	4.432050	63.324529	2.609970	0.038828	0.398243	0.065756	0.004955	0.002823	0.178114	0.000864	0.017491	0.009911	0.002773	0.027730
23-Mar-2025	0.111146	18.252700	28.632400	4.481580	64.032138	2.639140	0.039262	0.402693	0.066491	0.005011	0.002855	0.180105	0.000873	0.017687	0.010022	0.002804	0.028040
24-Mar-2025	0.111146	18.458500	28.955300	4.532110	64.754103	2.668900	0.039705	0.407234	0.067241	0.005067	0.002887	0.182135	0.000883	0.017886	0.010135	0.002836	0.028356
25-Mar-2025	0.111146	18.668600	29.284900	4.583700	65.491171	2.699280	0.040157	0.411870	0.068006	0.005125	0.002920	0.184209	0.000893	0.018090	0.010250	0.002868	0.028679
26-Mar-2025	0.111146	18.883400	29.621800	4.636440	66.244710	2.730340	0.040619	0.416609	0.068789	0.005184	0.002953	0.186328	0.000904	0.018298	0.010368	0.002901	0.029008
27-Mar-2025	0.111146	19.104200	29.968100	4.690640	67.019243	2.762260	0.041094	0.421479	0.069593	0.005245	0.002988	0.188506	0.000914	0.018512	0.010489	0.002935	0.029348
28-Mar-2025	0.111146	19.330100	30.322500	4.746110	67.811741	2.794920	0.041580	0.426463	0.070416	0.005307	0.003023	0.190736	0.000925	0.018731	0.010613	0.002969	0.029695
29-Mar-2025	0.111146	19.562600	30.687300	4.803200	68.627390	2.828540	0.042080	0.431593	0.071263	0.005370	0.003060	0.193030	0.000936	0.018956	0.010741	0.003005	0.030052
30-Mar-2025	0.111146	19.806000	31.069000	4.862950	69.481210	2.863730	0.042603	0.436962	0.072149	0.005437	0.003098	0.195431	0.000948	0.019192	0.010875	0.003043	0.030426
31-Mar-2025	0.111146	20.058600	31.465300	4.924980	70.367392	2.900260	0.043147	0.442536	0.073070	0.005507	0.003137	0.197924	0.000960	0.019437	0.011013	0.003081	0.030814
1-Apr-2025	0.111146	20.314300	31.866400	4.987760	71.264403	2.937230	0.043697	0.448177	0.074001	0.005577	0.003177	0.200447	0.000972	0.019685	0.011154	0.003121	0.031207
2-Apr-2025	0.111146	20.476100	32.120200	5.027490	71.832026	2.960620	0.044045	0.451746	0.074591	0.005621	0.003203	0.202044	0.000980	0.019841	0.011243	0.003146	0.031455
3-Apr-2025	0.111146	20.541600	32.223000	5.043570	72.061796	2.970090	0.044186	0.453191	0.074829	0.005639	0.003213	0.202690	0.000983	0.019905	0.011279	0.003156	0.031556
4-Apr-2025	0.111146	20.578200	32.280400	5.052550	72.190166	2.975380	0.044264	0.453999	0.074963	0.005649	0.003218	0.203051	0.000985	0.019940	0.011299	0.003161	0.031612
5-Apr-2025	0.111146	20.604100	32.321100	5.058930	72.281111	2.979140	0.044320	0.454571	0.075057	0.005656	0.003223	0.203307	0.000986	0.019966	0.011313	0.003165	0.031652
6-Apr-2025	0.111146	20.624600	32.353100	5.063950	72.352972	2.982090	0.044364	0.455022	0.075132	0.005662	0.003226	0.203509	0.000987	0.019985	0.011324	0.003168	0.031683
7-Apr-2025	0.111146	20.641300	32.379400	5.068060	72.411597	2.984510	0.044400	0.455392	0.075193	0.005667	0.003228	0.203674	0.000988	0.020002	0.011333	0.003171	0.031709
8-Apr-2025	0.111146	20.655300	32.401400	5.071490	72.460680	2.986530	0.044430	0.455700	0.075244	0.005670	0.003231	0.203812	0.000988	0.020015	0.011341	0.003173	0.031730
9-Apr-2025	0.111146	20.667200	32.420000	5.074410	72.502419	2.988250	0.044456	0.455963	0.075287	0.005674	0.003232	0.203929	0.000989	0.020027	0.011347	0.003175	0.031749
10-Apr-2025	0.111146	20.677500	32.436200	5.076940	72.538556	2.989740	0.044478	0.456190	0.075324	0.005676	0.003234	0.204031	0.000989	0.020037	0.011353	0.003176	0.031765
11-Apr-2025	0.111146	20.686700	32.450600	5.079200	72.570836	2.991080	0.044498	0.456393	0.075358	0.005679	0.003235	0.204122	0.000990	0.020046	0.011358	0.003178	0.031779
12-Apr-2025	0.111146	20.695100	32.463800	5.081260	72.600293	2.992290	0.044516	0.456578	0.075388	0.005681	0.003237	0.204204	0.000990	0.020054	0.011363	0.003179	0.031792
13-Apr-2025	0.111146	20.702700	32.475700	5.083130	72.626971	2.993390	0.044532	0.456746	0.075416	0.005683	0.003238	0.204280	0.000991	0.020061	0.011367	0.003180	0.031803
14-Apr-2025	0.111146	20.709700	32.486600	5.084840	72.651492	2.994390	0.044547	0.456899	0.075441	0.005685	0.003239	0.204348	0.000991	0.020068	0.011371	0.003181	0.031814
15-Apr-2025	0.111146	20.716000	32.496600	5.086390	72.673606	2.995310	0.044561	0.457039	0.075465	0.005687	0.003240	0.204411	0.000991	0.020074	0.011374	0.003182	0.031824
16-Apr-2025	0.111146	20.721800	32.505600	5.087810	72.693936	2.996150	0.044573	0.457167	0.075486	0.005689	0.003241	0.204468	0.000992	0.020080	0.011377	0.003183	0.031833
17-Apr-2025	0.111146	20.727000	32.513800	5.089100	72.712233	2.996900	0.044584	0.457282	0.075505	0.005690	0.003242	0.204520	0.000992	0.020085	0.011380	0.003184	0.031841
18-Apr-2025	0.111146	20.731600	32.521100	5.090230	72.728372	2.997570	0.044594	0.457384	0.075522	0.005691	0.003242	0.204565	0.000992	0.020089	0.011383	0.003185	0.031848
19-Apr-2025	0.111146	20.735500	32.527200	5.091190	72.742064	2.998140	0.044603	0.457470	0.075536	0.005692	0.003243	0.204604	0.000992	0.020093	0.011385	0.003185	0.031854
20-Apr-2025	0.111146	20.738700	32.532100	5.091960	72.753225	2.998590	0.044610	0.457539	0.075547	0.005693	0.003244	0.204635	0.000992	0.020096	0.011387	0.003186	0.031859
21-Apr-2025	0.111146	20.741000	32.535800	5.092530	72.761316	2.998920	0.044615	0.457591	0.075556	0.005694	0.003244	0.204657	0.000992	0.020098	0.011388	0.003186	0.031862
22-Apr-2025	0.111146	20.742600	32.538300	5.092920	72.766917	2.999150	0.044618	0.457626	0.075561	0.005694	0.003244	0.204673	0.000993	0.020100	0.011389	0.003186	0.031865
23-Apr-2025	0.111146	20.743600	32.539800	5.093160	72.770402	2.999300	0.044620	0.457648	0.075565	0.005695	0.003244	0.204683	0.000993	0.020101	0.011389	0.003187	0.031866
24-Apr-2025	0.111146	20.744200	32.540700	5.093300	72.772477	2.999380	0.044621	0.457660	0.075567	0.005695	0.003244	0.204689	0.000993	0.020101	0.011390	0.003187	0.031867
25-Apr-2025	0.111146	20.744400	32.541200	5.093380	72.773306	2.999420	0.044622	0.457667	0.075568	0.005695	0.003244	0.204691	0.000993	0.020101	0.011390	0.003187	0.031867
26-Apr-2025	0.111146	20.744400	32.541100	5.093370	72.773264	2.999420	0.044622	0.457666	0.075568	0.005695	0.003244	0.204691	0.000993	0.020101	0.011390	0.003187	0.031867
27-Apr-2025	0.111146	20.744100	32.540600	5.093290	72.772186	2.999370	0.044621	0.457659	0.075567	0.005695	0.003244	0.204688	0.000993	0.020101	0.011390	0.003187	0.031867
28-Apr-2025	0.111146	20.743500	32.539700	5.093150	72.770111	2.999290	0.044620	0.457647	0.075565	0.005695	0.003244	0.204682	0.000993	0.020101	0.011389	0.003187	0.031866
29-Apr-2025	0.111146	20.742800	32.538600	5.092980	72.767663	2.999190	0.044618	0.457631	0.075562	0.005694	0.003244	0.204675	0.000993	0.020100	0.011389	0.003186	0.031865
30-Apr-2025	0.111154	20.741600	32.536700	5.092680	72.763431	2.999010	0.044616	0.457604	0.075558	0.005694	0.003244	0.204664	0.000992	0.020099	0.011388	0.003186	0.031863
1-May-2025	0.111557	20.721300	32.504800	5.087690	72.692194	2.996070	0.044572	0.457155	0.075484	0.005688	0.003241	0.204463	0.000992	0.020079	0.011377	0.003183	0.031832
2-May-2025	0.116342	20.455900	32.088500	5.022530	71.761161	2.957700	0.044001	0.451301	0.074517	0.005616	0.003199	0.201844	0.000979	0.019822	0.011231	0.003142	0.031424

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
3-May-2025	0.123842	20.139900	31.592800	4.944930	70.652552	2.912010	0.043321	0.444328	0.073366	0.005529	0.003150	0.198726	0.000964	0.019516	0.011058	0.003094	0.030939
4-May-2025	0.131301	19.741900	30.968500	4.847210	69.256335	2.854460	0.042465	0.435548	0.071916	0.005420	0.003088	0.194799	0.000945	0.019130	0.010839	0.003033	0.030327
5-May-2025	0.138320	19.217700	30.146200	4.718520	67.417462	2.778670	0.041338	0.423984	0.070007	0.005276	0.003006	0.189627	0.000920	0.018622	0.010552	0.002952	0.029522
6-May-2025	0.148668	18.742900	29.401400	4.601940	65.751810	2.710020	0.040317	0.413508	0.068277	0.005145	0.002931	0.184942	0.000897	0.018162	0.010291	0.002879	0.028793
7-May-2025	0.155176	18.379600	28.831500	4.512740	64.477325	2.657490	0.039535	0.405493	0.066954	0.005046	0.002875	0.181357	0.000879	0.017810	0.010091	0.002823	0.028235
8-May-2025	0.160661	17.941200	28.143800	4.405090	62.939337	2.594100	0.038592	0.395821	0.065356	0.004925	0.002806	0.177031	0.000858	0.017385	0.009851	0.002756	0.027561
9-May-2025	0.160260	17.617600	27.636200	4.325640	61.804133	2.547310	0.037896	0.388682	0.064178	0.004836	0.002755	0.173838	0.000843	0.017072	0.009673	0.002706	0.027064
10-May-2025	0.202754	17.471800	27.407400	4.289840	61.292646	2.526230	0.037582	0.385465	0.063646	0.004796	0.002733	0.172399	0.000836	0.016930	0.009593	0.002684	0.026840
11-May-2025	0.205253	17.246000	27.053200	4.234400	60.500521	2.493580	0.037097	0.380483	0.062824	0.004734	0.002697	0.170171	0.000825	0.016711	0.009469	0.002649	0.026493
12-May-2025	0.212156	17.045600	26.738900	4.185200	59.797517	2.464610	0.036666	0.376062	0.062094	0.004679	0.002666	0.168194	0.000816	0.016517	0.009359	0.002619	0.026185
13-May-2025	0.211377	16.720000	26.228200	4.105260	58.655301	2.417530	0.035965	0.368879	0.060908	0.004590	0.002615	0.164981	0.000800	0.016202	0.009180	0.002569	0.025685
14-May-2025	0.214951	16.388100	25.707600	4.023770	57.490971	2.369550	0.035251	0.361557	0.059699	0.004499	0.002563	0.161707	0.000784	0.015880	0.008998	0.002518	0.025175
15-May-2025	0.219361	16.134000	25.308900	3.961370	56.599520	2.332800	0.034705	0.355950	0.058773	0.004429	0.002523	0.159199	0.000772	0.015634	0.008858	0.002478	0.024785
16-May-2025	0.223196	15.920800	24.974400	3.909020	55.851582	2.301970	0.034246	0.351246	0.057996	0.004371	0.002490	0.157095	0.000762	0.015427	0.008741	0.002446	0.024457
17-May-2025	0.223172	15.593800	24.461600	3.828750	54.704511	2.254700	0.033543	0.344034	0.056806	0.004281	0.002439	0.153869	0.000746	0.015111	0.008562	0.002396	0.023955
18-May-2025	0.228638	15.397600	24.153700	3.780560	54.016153	2.226320	0.033121	0.339704	0.056091	0.004227	0.002408	0.151932	0.000737	0.014920	0.008454	0.002365	0.023654
19-May-2025	0.258533	13.996900	21.956600	3.436660	49.102425	2.023800	0.030108	0.308802	0.050988	0.003842	0.002189	0.138112	0.000670	0.013563	0.007685	0.002150	0.021502
20-May-2025	0.272746	13.711100	21.508200	3.366490	48.099823	1.982480	0.029493	0.302497	0.049947	0.003764	0.002144	0.135292	0.000656	0.013286	0.007528	0.002106	0.021063
21-May-2025	0.294534	13.243100	20.774100	3.251580	46.458027	1.914810	0.028486	0.292172	0.048242	0.003636	0.002071	0.130674	0.000634	0.012833	0.007271	0.002034	0.020344
22-May-2025	0.320204	12.727800	19.965700	3.125050	44.650273	1.840300	0.027378	0.280802	0.046365	0.003494	0.001991	0.125589	0.000609	0.012333	0.006988	0.001955	0.019552
23-May-2025	0.352830	11.534000	18.093000	2.831940	40.462327	1.667690	0.024810	0.254465	0.042016	0.003166	0.001804	0.113809	0.000552	0.011177	0.006333	0.001772	0.017718
24-May-2025	0.400215	10.351000	16.237300	2.541480	36.312262	1.496640	0.022265	0.228365	0.037707	0.002842	0.001619	0.102136	0.000495	0.010030	0.005683	0.001590	0.015901
25-May-2025	0.435369	9.758840	15.308400	2.396090	34.234922	1.411020	0.020992	0.215301	0.035550	0.002679	0.001526	0.096293	0.000467	0.009456	0.005358	0.001499	0.014991
26-May-2025	0.468126	9.324780	14.627500	2.289510	32.712178	1.348260	0.020058	0.205725	0.033968	0.002560	0.001458	0.092010	0.000446	0.009036	0.005120	0.001432	0.014325
27-May-2025	0.502921	9.216880	14.458200	2.263020	32.333666	1.332660	0.019826	0.203344	0.033575	0.002530	0.001442	0.090946	0.000441	0.008931	0.005061	0.001416	0.014159
28-May-2025	0.525700	10.210500	16.016900	2.506980	35.819362	1.476330	0.021963	0.225266	0.037195	0.002803	0.001597	0.100750	0.000489	0.009894	0.005606	0.001569	0.015685
29-May-2025	0.560451	10.073000	15.801200	2.473220	35.337001	1.456450	0.021667	0.222232	0.036694	0.002765	0.001575	0.099393	0.000482	0.009761	0.005531	0.001547	0.015474
30-May-2025	0.561289	10.297700	16.153700	2.528400	36.125308	1.488940	0.022151	0.227190	0.037513	0.002827	0.001611	0.101611	0.000493	0.009979	0.005654	0.001582	0.015819
31-May-2025	0.573995	10.228300	16.044900	2.511360	35.881846	1.478910	0.022002	0.225659	0.037260	0.002808	0.001600	0.100926	0.000489	0.009911	0.005616	0.001571	0.015713
1-Jun-2025	0.726742	9.766200	15.319900	2.397890	34.260712	1.412090	0.021007	0.215463	0.035576	0.002681	0.001527	0.096366	0.000467	0.009463	0.005362	0.001500	0.015003
2-Jun-2025	0.770909	9.694160	15.206900	2.380200	34.007981	1.401670	0.020852	0.213874	0.035314	0.002661	0.001516	0.095655	0.000464	0.009394	0.005323	0.001489	0.014892
3-Jun-2025	0.837412	9.689340	15.199400	2.379020	33.991086	1.400970	0.020842	0.213767	0.035297	0.002660	0.001515	0.095608	0.000464	0.009389	0.005320	0.001488	0.014885
4-Jun-2025	0.868971	9.161250	14.371000	2.249360	32.138506	1.324620	0.019706	0.202117	0.033373	0.002515	0.001433	0.090397	0.000438	0.008877	0.005030	0.001407	0.014073
5-Jun-2025	0.882705	8.945480	14.032500	2.196380	31.381556	1.293420	0.019242	0.197356	0.032587	0.002456	0.001399	0.088268	0.000428	0.008668	0.004912	0.001374	0.013742
6-Jun-2025	0.896347	8.780020	13.760700	2.159370	30.815996	1.267500	0.018886	0.193743	0.032159	0.002408	0.001380	0.086929	0.000420	0.008523	0.004819	0.001349	0.013493
7-Jun-2025	0.922860	8.736440	13.665100	2.157390	30.699023	1.257260	0.018792	0.192860	0.032439	0.002390	0.001389	0.087186	0.000416	0.008518	0.004791	0.001344	0.013439
8-Jun-2025	1.076948	8.345190	12.950000	2.091420	29.450407	1.183840	0.017943	0.184442	0.032543	0.002257	0.001384	0.085673	0.000392	0.008270	0.004561	0.001289	0.012886
9-Jun-2025	1.276643	7.815670	11.919300	2.018760	27.828982	1.071210	0.016782	0.173130	0.033549	0.002057	0.001408	0.084865	0.000356	0.008008	0.004242	0.001216	0.012164
10-Jun-2025	1.523980	7.680520	11.571000	2.024810	27.516426	1.026490	0.016454	0.170133	0.035023	0.001982	0.001461	0.086509	0.000343	0.008048	0.004148	0.001201	0.012013
11-Jun-2025	2.065460	7.528030	11.237000	2.014720	27.094108	0.986896	0.016098	0.166737	0.035855	0.001912	0.001488	0.087068	0.000330	0.008021	0.004050	0.001182	0.011819
12-Jun-2025	2.687257	7.453000	11.047300	2.017020	26.916229	0.962456	0.015903	0.164860	0.036603	0.001871	0.001515	0.087876	0.000323	0.008039	0.003999	0.001173	0.011731
13-Jun-2025	3.142083	7.463310	11.050300	2.023270	26.967711	0.961099	0.015901	0.164778	0.036786	0.001869	0.001524	0.088240	0.000323	0.008064	0.004002	0.001175	0.011749
14-Jun-2025	3.228777	7.444660	11.025200	2.017250	26.896352	0.958685	0.015836	0.163920	0.036594	0.001866	0.001519	0.087946	0.000322	0.008040	0.003992	0.001171	0.011712
15-Jun-2025	3.116747	7.423230	11.001800	2.008700	26.807632	0.956922	0.015762	0.162950	0.036279	0.001863	0.001509	0.087500	0.000322	0.008005	0.003982	0.001167	0.011666
16-Jun-2025	3.126060	7.267440	10.735300	1.976630	26.286560	0.930380	0.015419	0.159448	0.036017	0.001814	0.001497	0.086452	0.000313	0.007882	0.003893	0.001144	0.011436
17-Jun-2025	3.081733	7.133300	10.507600	1.948210	25.834579	0.907593	0.015107	0.156146	0.035710	0.001774	0.001484	0.085522	0.000306	0.007774	0.003817	0.001123	0.011232
18-Jun-2025	2.990680	6.977560	10.244300	1.914930	25.308649	0.881391	0.014749	0.152375	0.035346	0.001727	0.001470	0.084415	0.000297	0.007647	0.003729	0.001099	0.010994
19-Jun-2025	2.873703	6.826050	9.987960	1.882430	24.796494	0.855938	0.014402	0.148683	0.034982	0.001682	0.001455	0.083367	0.000289	0.007523	0.003644	0.001076	0.010762
20-Jun-2025	2.763713	6.706180	9.779820	1.858130	24.397111	0.835040	0.014133	0.145843	0.034782	0.001646	0.001446	0.082680	0.000282	0.007433	0.003575	0.001058	0.010581
21-Jun-2025	2.651293	6.602290	9.593340	1.838550	24.057067	0.816025	0.013905	0.143411	0.034693	0.001615	0.001441	0.082259	0.000276	0.007362	0.003515	0.001043	0.010426
22-Jun-2025	2.592987	6.478540	9.379080	1.813070	23.643137	0.794749	0.013634	0.140522	0.034472	0.001579	0.001432	0.081569	0.000269	0.007268	0.003445	0.001024	0.010239

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Jun-2025	2.578657	6.387610	9.213990	1.796440	23.347602	0.778006	0.013444	0.138522	0.034448	0.001551	0.001428	0.081262	0.000264	0.007209	0.003393	0.001011	0.010106
24-Jun-2025	2.643953	6.273260	9.014990	1.773100	22.965956	0.758309	0.013199	0.135954	0.034264	0.001518	0.001420	0.080674	0.000257	0.007124	0.003328	0.000993	0.009932
25-Jun-2025	2.812030	6.120380	8.745670	1.743400	22.461910	0.731271	0.012874	0.132665	0.034118	0.001471	0.001411	0.079898	0.000249	0.007014	0.003240	0.000971	0.009708
26-Jun-2025	3.184690	6.017890	8.552160	1.727200	22.139281	0.711125	0.012669	0.130650	0.034252	0.001436	0.001412	0.079692	0.000242	0.006958	0.003180	0.000957	0.009565
27-Jun-2025	3.913293	5.936590	8.386590	1.717730	21.897277	0.693450	0.012527	0.129273	0.034597	0.001406	0.001419	0.079835	0.000236	0.006930	0.003131	0.000946	0.009460
28-Jun-2025	4.701060	5.869220	8.270430	1.703520	21.670538	0.682112	0.012384	0.127748	0.034463	0.001388	0.001413	0.079482	0.000232	0.006878	0.003093	0.000936	0.009357
29-Jun-2025	5.208080	5.802050	8.156200	1.688980	21.442938	0.670968	0.012236	0.126220	0.034299	0.001369	0.001407	0.079082	0.000229	0.006824	0.003055	0.000925	0.009252
30-Jun-2025	5.623487	5.694390	7.980300	1.663560	21.069432	0.654304	0.011995	0.123684	0.033905	0.001342	0.001392	0.078282	0.000223	0.006729	0.002996	0.000908	0.009081
1-Jul-2025	5.689773	5.613490	7.919990	1.621090	20.692533	0.654825	0.011787	0.120958	0.032209	0.001354	0.001338	0.076365	0.000223	0.006565	0.002963	0.000889	0.008891
2-Jul-2025	6.852493	5.776150	8.171120	1.659700	21.257691	0.679537	0.012176	0.124607	0.032646	0.001415	0.001360	0.078574	0.000231	0.006726	0.003054	0.000912	0.009118
3-Jul-2025	7.225447	5.763630	8.133090	1.659450	21.225399	0.676514	0.012207	0.124930	0.032783	0.001422	0.001364	0.079396	0.000230	0.006740	0.003047	0.000910	0.009098
4-Jul-2025	7.199117	5.777780	8.147240	1.662750	21.274321	0.679112	0.012285	0.125790	0.032849	0.001438	0.001366	0.080053	0.000230	0.006766	0.003057	0.000911	0.009114
5-Jul-2025	7.427663	5.805510	8.190920	1.667870	21.364647	0.684084	0.012366	0.126673	0.032926	0.001453	0.001368	0.080551	0.000232	0.006796	0.003074	0.000915	0.009154
6-Jul-2025	7.531767	5.855410	8.278780	1.675230	21.519556	0.693761	0.012487	0.127951	0.032986	0.001476	0.001369	0.081034	0.000235	0.006839	0.003105	0.000923	0.009226
7-Jul-2025	7.924990	5.840090	8.277050	1.663710	21.433863	0.695747	0.012457	0.127669	0.032659	0.001480	0.001353	0.080465	0.000235	0.006801	0.003102	0.000920	0.009196
8-Jul-2025	9.532283	5.886170	8.356370	1.671970	21.582939	0.703866	0.012556	0.128702	0.032741	0.001498	0.001356	0.080845	0.000238	0.006840	0.003129	0.000926	0.009264
9-Jul-2025	10.419900	5.911190	8.416210	1.671030	21.641543	0.711093	0.012602	0.129185	0.032591	0.001511	0.001348	0.080665	0.000240	0.006843	0.003147	0.000930	0.009297
10-Jul-2025	10.282000	5.952390	8.490920	1.677820	21.772381	0.718648	0.012681	0.129985	0.032623	0.001525	0.001349	0.080849	0.000242	0.006872	0.003172	0.000936	0.009359
11-Jul-2025	11.537900	5.960790	8.518590	1.675900	21.785449	0.722077	0.012686	0.130037	0.032463	0.001530	0.001343	0.080586	0.000244	0.006862	0.003178	0.000937	0.009368
12-Jul-2025	11.866400	6.006030	8.601340	1.683810	21.930986	0.730257	0.012766	0.130847	0.032477	0.001544	0.001344	0.080744	0.000246	0.006891	0.003205	0.000944	0.009436
13-Jul-2025	12.927433	5.982270	8.578670	1.674030	21.831384	0.729060	0.012705	0.130212	0.032207	0.001540	0.001333	0.080133	0.000246	0.006850	0.003194	0.000940	0.009396
14-Jul-2025	13.450967	6.006970	8.628140	1.677020	21.905372	0.734174	0.012744	0.130607	0.032169	0.001548	0.001332	0.080103	0.000248	0.006861	0.003209	0.000943	0.009432
15-Jul-2025	14.375033	6.070230	8.736320	1.689990	22.116743	0.744464	0.012862	0.131801	0.032295	0.001567	0.001337	0.080498	0.000251	0.006912	0.003245	0.000953	0.009528
16-Jul-2025	15.197433	6.126050	8.838300	1.699970	22.297223	0.754453	0.012958	0.132777	0.032315	0.001584	0.001339	0.080679	0.000255	0.006947	0.003277	0.000961	0.009611
17-Jul-2025	15.725767	6.120670	8.849320	1.693020	22.255169	0.756622	0.012930	0.132469	0.032069	0.001585	0.001328	0.080116	0.000255	0.006919	0.003277	0.000960	0.009600
18-Jul-2025	16.304800	6.179860	8.952630	1.704330	22.449541	0.766614	0.013039	0.133572	0.032169	0.001602	0.001332	0.080433	0.000259	0.006965	0.003311	0.000969	0.009689
19-Jul-2025	16.393367	6.190170	8.985930	1.701760	22.464702	0.770693	0.013045	0.133613	0.032009	0.001608	0.001325	0.080093	0.000260	0.006955	0.003320	0.000970	0.009702
20-Jul-2025	17.394533	6.279010	9.134650	1.720530	22.763831	0.784753	0.013215	0.135331	0.032229	0.001634	0.001334	0.080740	0.000265	0.007032	0.003370	0.000984	0.009837
21-Jul-2025	16.313100	6.250930	9.094740	1.713210	22.663571	0.781246	0.013151	0.134674	0.032038	0.001626	0.001328	0.080363	0.000264	0.006996	0.003354	0.000979	0.009792
22-Jul-2025	16.342467	6.300480	9.181600	1.722430	22.825265	0.789722	0.013243	0.135601	0.032117	0.001642	0.001331	0.080628	0.000267	0.007034	0.003383	0.000987	0.009866
23-Jul-2025	17.156967	6.341650	9.259860	1.728600	22.953475	0.797631	0.013313	0.136304	0.032107	0.001655	0.001330	0.080689	0.000269	0.007058	0.003408	0.000993	0.009927
24-Jul-2025	17.849300	6.414360	9.388310	1.742440	23.192025	0.810052	0.013445	0.137629	0.032205	0.001677	0.001335	0.081033	0.000273	0.007111	0.003450	0.001004	0.010037
25-Jul-2025	17.986633	6.483140	9.510060	1.755170	23.416191	0.821883	0.013569	0.138884	0.032302	0.001697	0.001338	0.081349	0.000277	0.007162	0.003490	0.001014	0.010141
26-Jul-2025	17.724400	6.506500	9.562360	1.756440	23.479750	0.827534	0.013601	0.139186	0.032197	0.001706	0.001334	0.081177	0.000279	0.007166	0.003505	0.001017	0.010174
27-Jul-2025	17.591633	6.468900	9.513880	1.744610	23.337147	0.823749	0.013515	0.138299	0.031911	0.001697	0.001323	0.080549	0.000278	0.007115	0.003485	0.001011	0.010113
28-Jul-2025	17.690600	6.525210	9.600920	1.758890	23.536558	0.831517	0.013628	0.139442	0.032118	0.001713	0.001332	0.081155	0.000281	0.007170	0.003516	0.001020	0.010199
29-Jul-2025	18.337067	6.576970	9.686710	1.770240	23.712542	0.839544	0.013726	0.140440	0.032247	0.001728	0.001338	0.081557	0.000283	0.007215	0.003545	0.001028	0.010278
30-Jul-2025	18.824633	6.637360	9.797430	1.780890	23.907193	0.850373	0.013829	0.141477	0.032274	0.001746	0.001340	0.081729	0.000287	0.007253	0.003580	0.001037	0.010368
31-Jul-2025	18.307833	6.640030	9.809070	1.779750	23.909165	0.851782	0.013825	0.141426	0.032181	0.001748	0.001337	0.081560	0.000288	0.007245	0.003582	0.001037	0.010371
1-Aug-2025	18.233567	6.649610	9.833630	1.779660	23.932716	0.854501	0.013834	0.141494	0.032089	0.001751	0.001333	0.081411	0.000289	0.007242	0.003588	0.001038	0.010383
2-Aug-2025	15.891267	6.614180	9.790260	1.768040	23.796396	0.851151	0.013747	0.140589	0.031793	0.001743	0.001322	0.080735	0.000287	0.007191	0.003570	0.001033	0.010326
3-Aug-2025	13.924933	6.613120	9.799710	1.765140	23.781807	0.852481	0.013728	0.140377	0.031635	0.001744	0.001316	0.080432	0.000288	0.007174	0.003571	0.001032	0.010321
4-Aug-2025	13.569167	6.596460	9.785670	1.758130	23.711340	0.851757	0.013678	0.139838	0.031410	0.001741	0.001308	0.079955	0.000288	0.007141	0.003563	0.001029	0.010293
5-Aug-2025	13.485967	6.688490	9.938410	1.778650	24.025640	0.865860	0.013846	0.141525	0.031635	0.001767	0.001319	0.080668	0.000293	0.007219	0.003614	0.001043	0.010433
6-Aug-2025	13.983733	6.756720	10.052100	1.793620	24.257657	0.876388	0.013970	0.142771	0.031794	0.001787	0.001326	0.081174	0.000296	0.007276	0.003652	0.001054	0.010536
7-Aug-2025	14.392033	6.867400	10.239600	1.817970	24.634298	0.893526	0.014154	0.144602	0.031995	0.001818	0.001337	0.081907	0.000302	0.007362	0.003714	0.001070	0.010704
8-Aug-2025	14.852900	6.933370	10.359100	1.830110	24.849018	0.904883	0.014256	0.145608	0.032050	0.001838	0.001340	0.082156	0.000306	0.007407	0.003752	0.001080	0.010803
9-Aug-2025	15.325333	7.064640	10.580900	1.857990	25.291609	0.925478	0.014487	0.147912	0.032326	0.001876	0.001352	0.083014	0.000313	0.007513	0.003826	0.001100	0.011003
10-Aug-2025	15.749167	7.150560	10.724600	1.877940	25.588305	0.938298	0.014625	0.149276	0.032490	0.001900	0.001362	0.083632	0.000318	0.007580	0.003873	0.001113	0.011133
11-Aug-2025	16.341300	7.237570	10.873400	1.896160	25.880599	0.952108	0.014773	0.150746	0.032654	0.001925	0.001370	0.084173	0.000323	0.007649	0.003922	0.001127	0.011265
12-Aug-2025	14.942667	7.257600	10.928500	1.895120	25.926331	0.957967	0.014769	0.150655	0.032423	0.001933	0.001361	0.083750	0.000325	0.007637	0.003935	0.001129	0.011292

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Aug-2025	14.084033	7.195260	10.844900	1.876280	25.693085	0.951053	0.014623	0.149138	0.032002	0.001918	0.001344	0.082775	0.000323	0.007557	0.003903	0.001119	0.011192
14-Aug-2025	14.209200	7.239580	10.922000	1.885200	25.840485	0.958272	0.014695	0.149845	0.032058	0.001931	0.001348	0.083028	0.000325	0.007590	0.003928	0.001126	0.011258
15-Aug-2025	13.354733	7.277860	10.991000	1.892490	25.966090	0.964759	0.014750	0.150381	0.032063	0.001943	0.001349	0.083195	0.000327	0.007614	0.003950	0.001131	0.011314
16-Aug-2025	12.822500	7.265080	10.979200	1.887660	25.914289	0.963878	0.014705	0.149890	0.031887	0.001941	0.001343	0.082865	0.000327	0.007588	0.003943	0.001129	0.011292
17-Aug-2025	11.916900	7.272710	10.997700	1.888500	25.936800	0.965555	0.014698	0.149796	0.031796	0.001944	0.001341	0.082787	0.000328	0.007584	0.003947	0.001130	0.011301
18-Aug-2025	11.991500	7.351890	11.126800	1.907240	26.211684	0.977079	0.014834	0.151148	0.031992	0.001967	0.001352	0.083464	0.000332	0.007652	0.003991	0.001142	0.011421
19-Aug-2025	11.464333	7.358390	11.147400	1.906450	26.224661	0.979206	0.014822	0.150991	0.031863	0.001970	0.001347	0.083267	0.000333	0.007643	0.003995	0.001143	0.011428
20-Aug-2025	11.119133	7.407690	11.226400	1.918720	26.398291	0.986089	0.014904	0.151804	0.031989	0.001984	0.001355	0.083726	0.000335	0.007685	0.004022	0.001150	0.011502
21-Aug-2025	11.382333	7.462380	11.309800	1.934350	26.599216	0.992809	0.014991	0.152659	0.032147	0.001998	0.001365	0.084338	0.000338	0.007734	0.004050	0.001159	0.011586
22-Aug-2025	12.031467	7.535290	11.424700	1.953320	26.859391	1.002620	0.015113	0.153871	0.032348	0.002018	0.001377	0.085053	0.000341	0.007799	0.004088	0.001170	0.011697
23-Aug-2025	12.709633	7.571670	11.482300	1.962850	26.989476	1.007490	0.015171	0.154442	0.032439	0.002028	0.001382	0.085397	0.000343	0.007830	0.004107	0.001175	0.011752
24-Aug-2025	13.512200	7.633520	11.582900	1.978150	27.206921	1.016210	0.015268	0.155402	0.032573	0.002045	0.001391	0.085923	0.000346	0.007880	0.004141	0.001185	0.011846
25-Aug-2025	13.100200	7.644230	11.620000	1.975090	27.221063	1.020430	0.015254	0.155203	0.032369	0.002051	0.001382	0.085516	0.000348	0.007866	0.004149	0.001186	0.011858
26-Aug-2025	12.203700	7.649190	11.639700	1.973560	27.227148	1.022490	0.015234	0.154956	0.032217	0.002054	0.001377	0.085275	0.000348	0.007854	0.004153	0.001186	0.011862
27-Aug-2025	11.710400	7.668550	11.684800	1.974560	27.279607	1.027050	0.015239	0.154969	0.032089	0.002062	0.001373	0.085104	0.000350	0.007852	0.004165	0.001189	0.011888
28-Aug-2025	11.033767	7.618410	11.617000	1.959990	27.094409	1.021170	0.015113	0.153639	0.031740	0.002050	0.001360	0.084344	0.000348	0.007787	0.004138	0.001181	0.011808
29-Aug-2025	10.046823	7.677130	11.712500	1.974230	27.299673	1.029520	0.015206	0.154561	0.031873	0.002067	0.001368	0.084858	0.000351	0.007836	0.004170	0.001190	0.011896
30-Aug-2025	10.058600	7.740380	11.815000	1.989260	27.519502	1.038650	0.015315	0.155648	0.032042	0.002085	0.001376	0.085409	0.000355	0.007891	0.004205	0.001199	0.011992
31-Aug-2025	10.263700	7.827650	11.959400	2.010140	27.823399	1.051270	0.015448	0.156946	0.032217	0.002110	0.001387	0.086091	0.000359	0.007960	0.004252	0.001212	0.012125
1-Sep-2025	9.936303	7.919090	12.124400	2.026430	28.118806	1.067000	0.015589	0.158324	0.032301	0.002137	0.001390	0.086421	0.000365	0.008024	0.004306	0.001226	0.012262
2-Sep-2025	9.966927	8.005020	12.265600	2.046790	28.417216	1.079430	0.015726	0.159662	0.032484	0.002161	0.001401	0.087112	0.000369	0.008094	0.004352	0.001239	0.012391
3-Sep-2025	10.612300	7.920950	12.136500	2.025770	28.120733	1.068010	0.015562	0.158008	0.032172	0.002138	0.001387	0.086240	0.000365	0.008011	0.004306	0.001226	0.012261
4-Sep-2025	10.406167	7.981400	12.250600	2.034990	28.309645	1.079090	0.015647	0.158815	0.032148	0.002157	0.001386	0.086278	0.000369	0.008045	0.004342	0.001235	0.012352
5-Sep-2025	10.850000	7.963720	12.233500	2.027720	28.235560	1.078050	0.015596	0.158274	0.031955	0.002153	0.001378	0.085812	0.000369	0.008015	0.004334	0.001232	0.012322
6-Sep-2025	10.456700	8.012820	12.318200	2.037770	28.399548	1.085890	0.015674	0.159045	0.032031	0.002168	0.001382	0.086098	0.000371	0.008052	0.004362	0.001240	0.012396
7-Sep-2025	10.545800	7.993630	12.291100	2.032410	28.329558	1.083540	0.015630	0.158585	0.031914	0.002163	0.001378	0.085834	0.000371	0.008029	0.004352	0.001237	0.012365
8-Sep-2025	9.691547	8.024910	12.347800	2.037990	28.430643	1.088950	0.015677	0.159040	0.031928	0.002173	0.001379	0.085952	0.000373	0.008050	0.004370	0.001241	0.012411
9-Sep-2025	9.644550	8.036630	12.371800	2.039490	28.466085	1.091310	0.015689	0.159144	0.031893	0.002177	0.001378	0.085927	0.000373	0.008053	0.004377	0.001243	0.012428
10-Sep-2025	10.307767	8.058340	12.412600	2.043280	28.535902	1.095170	0.015717	0.159410	0.031876	0.002184	0.001378	0.085973	0.000375	0.008065	0.004389	0.001246	0.012459
11-Sep-2025	9.793533	8.058190	12.425900	2.039140	28.518479	1.097150	0.015700	0.159216	0.031720	0.002186	0.001371	0.085620	0.000375	0.008050	0.004392	0.001246	0.012456
12-Sep-2025	9.094057	7.983100	12.321100	2.016750	28.238777	1.088570	0.015541	0.157584	0.031299	0.002167	0.001352	0.084542	0.000372	0.007962	0.004353	0.001234	0.012338
13-Sep-2025	9.293450	8.071290	12.466100	2.036630	28.540853	1.101800	0.015698	0.159153	0.031527	0.002193	0.001363	0.085261	0.000377	0.008039	0.004402	0.001247	0.012472
14-Sep-2025	9.127073	8.102060	12.517700	2.043320	28.645236	1.106550	0.015751	0.159673	0.031589	0.002202	0.001366	0.085487	0.000379	0.008064	0.004419	0.001252	0.012518
15-Sep-2025	7.087253	8.072010	12.478300	2.033870	28.531286	1.103420	0.015681	0.158944	0.031379	0.002195	0.001357	0.085001	0.000378	0.008026	0.004404	0.001247	0.012470
16-Sep-2025	6.784597	8.104850	12.534700	2.040510	28.640631	1.108700	0.015737	0.159502	0.031438	0.002205	0.001360	0.085210	0.000379	0.008052	0.004422	0.001252	0.012519
17-Sep-2025	6.622537	8.190910	12.676600	2.059750	28.934753	1.121710	0.015891	0.161040	0.031659	0.002230	0.001370	0.085899	0.000384	0.008126	0.004471	0.001265	0.012650
18-Sep-2025	6.301233	8.173720	12.663000	2.051250	28.856826	1.121360	0.015845	0.160556	0.031454	0.002227	0.001360	0.085384	0.000384	0.008096	0.004464	0.001262	0.012621
19-Sep-2025	5.882447	8.207890	12.727700	2.056150	28.962327	1.127840	0.015899	0.161081	0.031455	0.002239	0.001360	0.085442	0.000386	0.008117	0.004484	0.001267	0.012671
20-Sep-2025	5.382910	8.319060	12.917900	2.078330	29.331256	1.145850	0.016097	0.163057	0.031689	0.002272	0.001369	0.086142	0.000392	0.008208	0.004549	0.001284	0.012839
21-Sep-2025	5.059727	8.318410	12.922900	2.076720	29.323003	1.146550	0.016086	0.162939	0.031612	0.002272	0.001366	0.085980	0.000392	0.008200	0.004549	0.001284	0.012837
22-Sep-2025	4.839460	8.334970	12.961600	2.077250	29.366536	1.150690	0.016103	0.163081	0.031526	0.002279	0.001362	0.085812	0.000394	0.008201	0.004560	0.001286	0.012861
23-Sep-2025	4.876473	8.353460	12.999500	2.079080	29.420241	1.154610	0.016129	0.163332	0.031496	0.002285	0.001360	0.085757	0.000395	0.008209	0.004571	0.001289	0.012888
24-Sep-2025	4.774663	8.471730	13.204300	2.101910	29.809575	1.174130	0.016338	0.165420	0.031725	0.002320	0.001369	0.086421	0.000402	0.008304	0.004640	0.001307	0.013067
25-Sep-2025	3.865443	8.432390	13.144700	2.091870	29.669998	1.168860	0.016257	0.164585	0.031544	0.002310	0.001362	0.085983	0.000400	0.008263	0.004618	0.001300	0.013005
26-Sep-2025	3.220457	8.372440	13.063400	2.073190	29.443379	1.162520	0.016129	0.163268	0.031191	0.002295	0.001346	0.085070	0.000398	0.008191	0.004588	0.001291	0.012910
27-Sep-2025	2.757567	8.387940	13.101200	2.072780	29.480394	1.166620	0.016146	0.163418	0.031099	0.002301	0.001341	0.084858	0.000399	0.008192	0.004599	0.001293	0.012932
28-Sep-2025	2.820450	8.462170	13.231800	2.086480	29.722163	1.179200	0.016276	0.164710	0.031221	0.002324	0.001346	0.085221	0.000404	0.008249	0.004642	0.001304	0.013044
29-Sep-2025	2.526673	8.451050	13.222600	2.081130	29.672365	1.178920	0.016247	0.164404	0.031093	0.002322	0.001339	0.084893	0.000403	0.008230	0.004638	0.001302	0.013025
30-Sep-2025	2.809273	8.518050	13.337700	2.094410	29.894351	1.189820	0.016366	0.165594	0.031231	0.002341	0.001345	0.085297	0.000407	0.008284	0.004676	0.001313	0.013126
1-Oct-2025	2.835200	8.547730	13.392500	2.099250	29.988393	1.195200	0.016414	0.166063	0.031248	0.002351	0.001345	0.085372	0.000409	0.008304	0.004694	0.001317	0.013171
2-Oct-2025	3.048057	8.635170	13.541700	2.116940	30.279578	1.209280	0.016570	0.167623	0.031439	0.002376	0.001353	0.085923	0.000414	0.008376	0.004744	0.001330	0.013303

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
3-Oct-2025	2.644327	8.578350	13.459700	2.100870	30.071523	1.202390	0.016453	0.166427	0.031152	0.002362	0.001340	0.085173	0.000411	0.008313	0.004714	0.001321	0.013214
4-Oct-2025	2.390550	8.516730	13.365400	2.085100	29.852717	1.194100	0.016332	0.165195	0.030899	0.002345	0.001329	0.084503	0.000409	0.008250	0.004680	0.001312	0.013119
5-Oct-2025	2.164320	8.522890	13.377100	2.086040	29.871969	1.195250	0.016341	0.165283	0.030896	0.002347	0.001329	0.084516	0.000409	0.008254	0.004684	0.001313	0.013128
6-Oct-2025	2.248487	8.498370	13.339900	2.079680	29.784552	1.192020	0.016293	0.164787	0.030790	0.002341	0.001325	0.084243	0.000408	0.008229	0.004671	0.001309	0.013090
7-Oct-2025	1.995700	8.469090	13.295700	2.072020	29.679896	1.188150	0.016234	0.164191	0.030662	0.002333	0.001319	0.083910	0.000407	0.008198	0.004655	0.001304	0.013044
8-Oct-2025	1.637097	8.426710	13.230500	2.061280	29.529846	1.182400	0.016151	0.163347	0.030490	0.002322	0.001312	0.083459	0.000405	0.008156	0.004632	0.001298	0.012978
9-Oct-2025	1.460087	8.431090	13.238200	2.062110	29.544201	1.183150	0.016158	0.163416	0.030494	0.002323	0.001312	0.083484	0.000405	0.008159	0.004635	0.001298	0.012985
10-Oct-2025	1.300080	8.309920	13.048300	2.032440	29.119458	1.166180	0.015925	0.161057	0.030048	0.002290	0.001293	0.082282	0.000399	0.008041	0.004568	0.001280	0.012798
11-Oct-2025	1.601203	8.200440	12.876100	2.005780	28.736301	1.150780	0.015716	0.158935	0.029652	0.002260	0.001276	0.081209	0.000394	0.007935	0.004508	0.001263	0.012629
12-Oct-2025	1.180227	8.217380	12.902700	2.010000	28.795978	1.153150	0.015748	0.159258	0.029709	0.002265	0.001279	0.081386	0.000395	0.007951	0.004517	0.001265	0.012655
13-Oct-2025	0.442156	8.204000	12.881600	2.006790	28.749349	1.151260	0.015722	0.158994	0.029657	0.002261	0.001277	0.081263	0.000394	0.007938	0.004510	0.001263	0.012634
14-Oct-2025	0.033191	8.169180	12.826700	1.998380	28.627771	1.146340	0.015655	0.158319	0.029531	0.002252	0.001271	0.080929	0.000392	0.007904	0.004490	0.001258	0.012580
15-Oct-2025	0.046740	8.101140	12.719400	1.981900	28.390011	1.136730	0.015525	0.157002	0.029287	0.002233	0.001261	0.080271	0.000389	0.007839	0.004453	0.001248	0.012475
16-Oct-2025	0.045996	8.073950	12.676600	1.975300	28.294939	1.132900	0.015473	0.156476	0.029189	0.002226	0.001257	0.080006	0.000388	0.007813	0.004438	0.001243	0.012433
17-Oct-2025	0.044747	8.162360	12.815400	1.996920	28.604729	1.145300	0.015642	0.158190	0.029509	0.002250	0.001271	0.080882	0.000392	0.007898	0.004486	0.001257	0.012570
18-Oct-2025	0.045161	8.218500	12.903500	2.010680	28.801575	1.153170	0.015750	0.159278	0.029712	0.002266	0.001279	0.081440	0.000395	0.007952	0.004517	0.001266	0.012656
19-Oct-2025	0.044606	8.249020	12.951400	2.018160	28.908586	1.157450	0.015809	0.159870	0.029823	0.002274	0.001284	0.081744	0.000396	0.007982	0.004534	0.001270	0.012703
20-Oct-2025	0.046693	8.286510	13.010200	2.027340	29.040002	1.162710	0.015880	0.160597	0.029958	0.002284	0.001290	0.082116	0.000398	0.008018	0.004555	0.001276	0.012761
21-Oct-2025	0.046255	8.322900	13.067300	2.036250	29.167559	1.167810	0.015950	0.161302	0.030090	0.002294	0.001296	0.082477	0.000400	0.008054	0.004575	0.001282	0.012817
22-Oct-2025	0.048736	8.358780	13.123700	2.045030	29.293307	1.172840	0.016019	0.161998	0.030220	0.002304	0.001301	0.082833	0.000401	0.008088	0.004594	0.001287	0.012872
23-Oct-2025	0.047717	8.395280	13.181000	2.053960	29.421221	1.177960	0.016089	0.162705	0.030352	0.002314	0.001307	0.083195	0.000403	0.008124	0.004614	0.001293	0.012928
24-Oct-2025	0.046782	8.435500	13.244100	2.063800	29.562172	1.183610	0.016166	0.163485	0.030497	0.002325	0.001313	0.083594	0.000405	0.008162	0.004637	0.001299	0.012990
25-Oct-2025	0.047038	8.486710	13.324500	2.076330	29.741642	1.190790	0.016264	0.164477	0.030682	0.002340	0.001321	0.084101	0.000408	0.008212	0.004665	0.001307	0.013069
26-Oct-2025	0.047876	8.552660	13.428100	2.092470	29.972783	1.200040	0.016390	0.165755	0.030921	0.002358	0.001332	0.084755	0.000411	0.008276	0.004701	0.001317	0.013171
27-Oct-2025	0.047912	8.594780	13.494200	2.102780	30.120414	1.205950	0.016471	0.166572	0.031073	0.002369	0.001338	0.085173	0.000413	0.008317	0.004724	0.001324	0.013235
28-Oct-2025	0.048059	8.661250	13.598600	2.119040	30.353348	1.215280	0.016599	0.167860	0.031313	0.002388	0.001348	0.085831	0.000416	0.008381	0.004761	0.001334	0.013338
29-Oct-2025	0.047491	8.692540	13.647700	2.126690	30.462982	1.219670	0.016659	0.168466	0.031427	0.002396	0.001353	0.086141	0.000417	0.008411	0.004778	0.001339	0.013386
30-Oct-2025	0.047152	8.738390	13.719600	2.137910	30.623673	1.226100	0.016746	0.169355	0.031592	0.002409	0.001360	0.086596	0.000420	0.008456	0.004803	0.001346	0.013457
31-Oct-2025	0.047031	8.775620	13.778100	2.147020	30.754152	1.231330	0.016818	0.170076	0.031727	0.002419	0.001366	0.086965	0.000421	0.008492	0.004823	0.001351	0.013514
1-Nov-2025	0.046776	8.794210	13.807300	2.151570	30.819308	1.233930	0.016853	0.170437	0.031794	0.002424	0.001369	0.087149	0.000422	0.008510	0.004834	0.001354	0.013543
2-Nov-2025	0.046770	8.840200	13.879500	2.162820	30.980472	1.240390	0.016942	0.171328	0.031960	0.002437	0.001376	0.087605	0.000424	0.008554	0.004859	0.001361	0.013613
3-Nov-2025	0.046788	8.886400	13.952000	2.174130	31.142408	1.246870	0.017030	0.172223	0.032127	0.002450	0.001383	0.088063	0.000427	0.008599	0.004884	0.001368	0.013685
4-Nov-2025	0.046945	8.938010	14.033100	2.186750	31.323247	1.254110	0.017129	0.173224	0.032314	0.002464	0.001392	0.088574	0.000429	0.008649	0.004913	0.001376	0.013764
5-Nov-2025	0.047102	8.981240	14.100900	2.197330	31.474761	1.260180	0.017212	0.174061	0.032470	0.002476	0.001398	0.089003	0.000431	0.008691	0.004937	0.001383	0.013831
6-Nov-2025	0.047315	9.026650	14.172200	2.208450	31.633942	1.266540	0.017299	0.174942	0.032635	0.002488	0.001405	0.089454	0.000433	0.008735	0.004961	0.001390	0.013901
7-Nov-2025	0.047563	9.075500	14.248900	2.220410	31.805172	1.273400	0.017393	0.175889	0.032811	0.002502	0.001413	0.089938	0.000436	0.008782	0.004988	0.001398	0.013976
8-Nov-2025	0.047803	9.124000	14.325000	2.232280	31.975157	1.280200	0.017485	0.176829	0.032987	0.002515	0.001421	0.090420	0.000438	0.008829	0.005015	0.001405	0.014050
9-Nov-2025	0.048019	9.173060	14.402000	2.244290	32.147117	1.287080	0.017580	0.177780	0.033164	0.002529	0.001428	0.090907	0.000440	0.008876	0.005042	0.001413	0.014126
10-Nov-2025	0.048214	9.223880	14.481800	2.256730	32.325243	1.294210	0.017677	0.178765	0.033348	0.002543	0.001436	0.091411	0.000443	0.008925	0.005070	0.001420	0.014204
11-Nov-2025	0.048376	9.275050	14.562100	2.269260	32.504613	1.301380	0.017775	0.179757	0.033533	0.002557	0.001444	0.091918	0.000445	0.008975	0.005098	0.001428	0.014283
12-Nov-2025	0.048503	9.331210	14.650300	2.283000	32.701425	1.309260	0.017883	0.180845	0.033736	0.002572	0.001453	0.092475	0.000448	0.009029	0.005129	0.001437	0.014369
13-Nov-2025	0.048635	9.391280	14.744600	2.297700	32.911955	1.317690	0.017998	0.182009	0.033954	0.002589	0.001462	0.093071	0.000451	0.009087	0.005162	0.001446	0.014462
14-Nov-2025	0.048695	9.447880	14.833400	2.311550	33.110319	1.325630	0.018106	0.183106	0.034158	0.002605	0.001471	0.093632	0.000454	0.009142	0.005193	0.001455	0.014549
15-Nov-2025	0.048679	9.513600	14.936600	2.327630	33.340640	1.334850	0.018232	0.184380	0.034396	0.002623	0.001481	0.094283	0.000457	0.009206	0.005229	0.001465	0.014650
16-Nov-2025	0.048647	9.585450	15.049400	2.345210	33.592443	1.344930	0.018370	0.185772	0.034656	0.002642	0.001492	0.094995	0.000460	0.009275	0.005269	0.001476	0.014761
17-Nov-2025	0.048653	9.645260	15.143300	2.359840	33.802035	1.353320	0.018484	0.186932	0.034872	0.002659	0.001502	0.095588	0.000463	0.009333	0.005301	0.001485	0.014853
18-Nov-2025	0.048648	9.714410	15.251900	2.376760	34.044379	1.363030	0.018617	0.188272	0.035122	0.002678	0.001512	0.096274	0.000466	0.009400	0.005339	0.001496	0.014960
19-Nov-2025	0.048648	9.753070	15.312600	2.386220	34.179870	1.368450	0.018691	0.189021	0.035262	0.002689	0.001519	0.096657	0.000468	0.009438	0.005361	0.001502	0.015019
20-Nov-2025	0.048659	9.809390	15.401000	2.400000	34.377247	1.376350	0.018799	0.190113	0.035465	0.002704	0.001527	0.097215	0.000471	0.009492	0.005392	0.001511	0.015106
21-Nov-2025	0.048651	9.850190	15.465100	2.409990	34.520263	1.382080	0.018877	0.190903	0.035613	0.002715	0.001534	0.097620	0.000473	0.009532	0.005414	0.001517	0.015169
22-Nov-2025	0.048654	9.914700	15.566300	2.425770	34.746327	1.391130	0.019001	0.192154	0.035846	0.002733	0.001544	0.098259	0.000476	0.009594	0.005450	0.001527	0.015268

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Nov-2025	0.048647	9.949990	15.621700	2.434400	34.869984	1.396080	0.019068	0.192838	0.035974	0.002743	0.001549	0.098609	0.000478	0.009628	0.005469	0.001532	0.015322
24-Nov-2025	0.048651	10.018400	15.729200	2.451140	35.109739	1.405680	0.019200	0.194164	0.036221	0.002762	0.001560	0.099287	0.000481	0.009694	0.005507	0.001543	0.015428
25-Nov-2025	0.048646	9.989300	15.683500	2.444020	35.007756	1.401590	0.019144	0.193599	0.036116	0.002754	0.001555	0.098998	0.000480	0.009666	0.005491	0.001538	0.015383
26-Nov-2025	0.048649	10.049700	15.778300	2.458800	35.219439	1.410070	0.019260	0.194770	0.036334	0.002770	0.001565	0.099597	0.000483	0.009725	0.005524	0.001548	0.015476
27-Nov-2025	0.048651	10.096200	15.851400	2.470180	35.382413	1.416600	0.019349	0.195672	0.036503	0.002783	0.001572	0.100058	0.000485	0.009770	0.005549	0.001555	0.015548
28-Nov-2025	0.048653	10.155400	15.944200	2.484660	35.589864	1.424900	0.019462	0.196819	0.036716	0.002800	0.001581	0.100644	0.000488	0.009827	0.005582	0.001564	0.015639
29-Nov-2025	0.048655	10.210600	16.030900	2.498160	35.783291	1.432640	0.019568	0.197888	0.036916	0.002815	0.001590	0.101191	0.000490	0.009880	0.005612	0.001572	0.015724
30-Nov-2025	0.048657	10.277500	16.136000	2.514540	36.017793	1.442040	0.019696	0.199185	0.037158	0.002833	0.001600	0.101854	0.000493	0.009945	0.005649	0.001583	0.015827
1-Dec-2025	0.048654	10.321600	16.205200	2.525320	36.172303	1.448220	0.019781	0.200039	0.037317	0.002845	0.001607	0.102291	0.000496	0.009988	0.005673	0.001589	0.015895
2-Dec-2025	0.048656	10.378800	16.294900	2.539310	36.372742	1.456240	0.019890	0.201147	0.037524	0.002861	0.001616	0.102858	0.000498	0.010043	0.005705	0.001598	0.015983
3-Dec-2025	0.048657	10.433000	16.380000	2.552570	36.562684	1.463840	0.019994	0.202198	0.037720	0.002876	0.001624	0.103395	0.000501	0.010096	0.005734	0.001607	0.016066
4-Dec-2025	0.048656	10.494000	16.475800	2.567500	36.776483	1.472410	0.020111	0.203380	0.037941	0.002893	0.001634	0.104000	0.000504	0.010155	0.005768	0.001616	0.016160
5-Dec-2025	0.048654	10.546200	16.557800	2.580270	36.959413	1.479730	0.020211	0.204392	0.038129	0.002907	0.001642	0.104517	0.000506	0.010205	0.005797	0.001624	0.016240
6-Dec-2025	0.048653	10.585900	16.620200	2.589990	37.098571	1.485310	0.020287	0.205162	0.038273	0.002918	0.001648	0.104911	0.000508	0.010244	0.005818	0.001630	0.016302
7-Dec-2025	0.048653	10.636000	16.698800	2.602250	37.274158	1.492340	0.020383	0.206133	0.038454	0.002932	0.001656	0.105407	0.000511	0.010292	0.005846	0.001638	0.016379
8-Dec-2025	0.048653	10.696000	16.793000	2.616930	37.484430	1.500750	0.020498	0.207296	0.038671	0.002949	0.001665	0.106002	0.000514	0.010350	0.005879	0.001647	0.016471
9-Dec-2025	0.048653	10.749200	16.876500	2.629930	37.670804	1.508210	0.020600	0.208326	0.038863	0.002963	0.001674	0.106529	0.000516	0.010401	0.005908	0.001655	0.016553
10-Dec-2025	0.048653	10.807000	16.967300	2.644090	37.873442	1.516330	0.020711	0.209448	0.039072	0.002979	0.001683	0.107102	0.000519	0.010458	0.005940	0.001664	0.016642
11-Dec-2025	0.048653	10.863200	17.055500	2.657830	38.070354	1.524210	0.020819	0.210536	0.039275	0.002995	0.001691	0.107659	0.000522	0.010512	0.005971	0.001673	0.016729
12-Dec-2025	0.048654	10.919600	17.144100	2.671640	38.268055	1.532130	0.020927	0.211630	0.039479	0.003010	0.001700	0.108218	0.000524	0.010566	0.006002	0.001682	0.016816
13-Dec-2025	0.048654	10.979200	17.237600	2.686210	38.476875	1.540480	0.021041	0.212784	0.039695	0.003027	0.001709	0.108808	0.000527	0.010624	0.006035	0.001691	0.016907
14-Dec-2025	0.048654	11.038800	17.331100	2.700780	38.685696	1.548840	0.021155	0.213939	0.039910	0.003043	0.001719	0.109399	0.000530	0.010682	0.006067	0.001700	0.016999
15-Dec-2025	0.048654	11.108100	17.440000	2.717750	38.928620	1.558570	0.021288	0.215282	0.040161	0.003062	0.001729	0.110086	0.000533	0.010749	0.006105	0.001711	0.017106
16-Dec-2025	0.048654	11.150200	17.506100	2.728040	39.076118	1.564480	0.021369	0.216098	0.040313	0.003074	0.001736	0.110503	0.000535	0.010790	0.006129	0.001717	0.017171
17-Dec-2025	0.048654	11.207600	17.596200	2.742090	39.277304	1.572530	0.021479	0.217210	0.040521	0.003090	0.001745	0.111072	0.000538	0.010845	0.006160	0.001726	0.017259
18-Dec-2025	0.048654	11.284700	17.717300	2.760960	39.547529	1.583350	0.021626	0.218705	0.040799	0.003111	0.001757	0.111836	0.000542	0.010920	0.006203	0.001738	0.017378
19-Dec-2025	0.048654	11.330400	17.789000	2.772140	39.707681	1.589760	0.021714	0.219591	0.040965	0.003124	0.001764	0.112289	0.000544	0.010964	0.006228	0.001745	0.017448
20-Dec-2025	0.048654	11.380100	17.867000	2.784290	39.881816	1.596730	0.021809	0.220553	0.041144	0.003137	0.001772	0.112781	0.000546	0.011012	0.006255	0.001752	0.017525
21-Dec-2025	0.048654	11.437100	17.956600	2.798260	40.081673	1.604740	0.021919	0.221660	0.041351	0.003153	0.001781	0.113347	0.000549	0.011067	0.006286	0.001761	0.017612
22-Dec-2025	0.048654	11.510800	18.072200	2.816270	40.339867	1.615070	0.022060	0.223086	0.041617	0.003173	0.001792	0.114076	0.000553	0.011138	0.006327	0.001773	0.017726
23-Dec-2025	0.048654	11.574900	18.172900	2.831950	40.564495	1.624070	0.022182	0.224329	0.041849	0.003191	0.001802	0.114712	0.000556	0.011200	0.006362	0.001782	0.017825
24-Dec-2025	0.048654	11.611800	18.230800	2.840990	40.693861	1.629250	0.022253	0.225045	0.041982	0.003201	0.001808	0.115078	0.000558	0.011236	0.006382	0.001788	0.017881
25-Dec-2025	0.048654	11.675300	18.330600	2.856540	40.916456	1.638160	0.022375	0.226276	0.042212	0.003219	0.001818	0.115708	0.000561	0.011298	0.006417	0.001798	0.017979
26-Dec-2025	0.048654	11.748900	18.446000	2.874520	41.174277	1.648480	0.022516	0.227701	0.042478	0.003239	0.001829	0.116436	0.000564	0.011369	0.006458	0.001809	0.018093
27-Dec-2025	0.048654	11.820500	18.558500	2.892050	41.425250	1.658530	0.022653	0.229089	0.042736	0.003259	0.001840	0.117146	0.000568	0.011438	0.006497	0.001820	0.018203
28-Dec-2025	0.048654	11.862600	18.624600	2.902350	41.572790	1.664430	0.022734	0.229905	0.042889	0.003270	0.001847	0.117563	0.000570	0.011479	0.006520	0.001827	0.018268
29-Dec-2025	0.048654	11.927400	18.726300	2.918200	41.799865	1.673530	0.022858	0.231161	0.043123	0.003288	0.001857	0.118206	0.000573	0.011542	0.006556	0.001837	0.018367
30-Dec-2025	0.048654	12.017400	18.867700	2.940230	42.115315	1.686160	0.023031	0.232906	0.043449	0.003313	0.001871	0.119098	0.000577	0.011629	0.006605	0.001851	0.018506
31-Dec-2025	0.048654	12.079300	18.964900	2.955380	42.332267	1.694850	0.023149	0.234106	0.043672	0.003330	0.001881	0.119711	0.000580	0.011689	0.006639	0.001860	0.018601
1-Jan-2026	0.048654	12.118700	19.026600	2.965000	42.470264	1.700360	0.023225	0.234868	0.043815	0.003341	0.001887	0.120101	0.000582	0.011727	0.006661	0.001866	0.018662
2-Jan-2026	0.048654	12.194600	19.145900	2.983580	42.736299	1.711020	0.023370	0.236340	0.044089	0.003362	0.001899	0.120854	0.000586	0.011800	0.006703	0.001878	0.018779
3-Jan-2026	0.048654	12.285800	19.289000	3.005890	43.055898	1.723820	0.023545	0.238107	0.044419	0.003387	0.001913	0.121757	0.000590	0.011888	0.006753	0.001892	0.018919
4-Jan-2026	0.048654	12.341000	19.375700	3.019390	43.249325	1.731560	0.023651	0.239177	0.044618	0.003402	0.001921	0.122304	0.000593	0.011942	0.006783	0.001900	0.019004
5-Jan-2026	0.048654	12.393600	19.458300	3.032270	43.433707	1.738940	0.023751	0.240196	0.044809	0.003417	0.001930	0.122826	0.000595	0.011993	0.006812	0.001909	0.019085
6-Jan-2026	0.048654	12.459800	19.562200	3.048460	43.665679	1.748230	0.023878	0.241479	0.045048	0.003435	0.001940	0.123482	0.000598	0.012057	0.006848	0.001919	0.019187
7-Jan-2026	0.048654	12.531300	19.674500	3.065970	43.916321	1.758270	0.024015	0.242866	0.045307	0.003455	0.001951	0.124191	0.000602	0.012126	0.006888	0.001930	0.019297
8-Jan-2026	0.048654	12.590800	19.767900	3.080510	44.124768	1.766610	0.024129	0.244018	0.045522	0.003471	0.001960	0.124780	0.000605	0.012184	0.006920	0.001939	0.019389
9-Jan-2026	0.048654	12.653800	19.866800	3.095920	44.345537	1.775450	0.024250	0.245239	0.045749	0.003488	0.001970	0.125404	0.000608	0.012244	0.006955	0.001949	0.019486
10-Jan-2026	0.048654	12.724700	19.978100	3.113280	44.594063	1.785400	0.024386	0.246614	0.046006	0.003508	0.001981	0.126107	0.000611	0.012313	0.006994	0.001960	0.019595
11-Jan-2026	0.048654	12.789300	20.079500	3.129070	44.820392	1.794460	0.024510	0.247865	0.046239	0.003526	0.001991	0.126747	0.000614	0.012376	0.007030	0.001969	0.019695
12-Jan-2026	0.048654	12.851500	20.177200	3.144300	45.038423	1.803190	0.024629	0.249071	0.046464	0.003543	0.002001	0.127364	0.000617	0.012436	0.007064	0.001979	0.019790

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Jan-2026	0.048654	12.910200	20.269400	3.158660	45.244131	1.811430	0.024742	0.250209	0.046676	0.003559	0.002010	0.127945	0.000620	0.012493	0.007096	0.001988	0.019881
14-Jan-2026	0.048654	12.978800	20.377100	3.175450	45.484567	1.821060	0.024873	0.251539	0.046924	0.003578	0.002021	0.128626	0.000623	0.012559	0.007134	0.001999	0.019987
15-Jan-2026	0.048654	13.049200	20.487500	3.192660	45.731226	1.830920	0.025008	0.252902	0.047179	0.003597	0.002032	0.129323	0.000627	0.012627	0.007172	0.002009	0.020095
16-Jan-2026	0.048654	13.111800	20.585800	3.207980	45.950626	1.839710	0.025128	0.254115	0.047405	0.003615	0.002041	0.129943	0.000630	0.012688	0.007207	0.002019	0.020191
17-Jan-2026	0.048654	13.172500	20.681100	3.222830	46.163346	1.848220	0.025244	0.255291	0.047625	0.003631	0.002051	0.130545	0.000632	0.012746	0.007240	0.002028	0.020285
18-Jan-2026	0.048654	13.241000	20.788700	3.239590	46.403409	1.857830	0.025375	0.256619	0.047872	0.003650	0.002062	0.131223	0.000636	0.012813	0.007278	0.002039	0.020390
19-Jan-2026	0.048654	13.310600	20.897900	3.256610	46.647288	1.867600	0.025509	0.257968	0.048124	0.003669	0.002072	0.131913	0.000639	0.012880	0.007316	0.002050	0.020497
20-Jan-2026	0.048654	13.377500	21.003100	3.273000	46.881832	1.877000	0.025637	0.259266	0.048366	0.003688	0.002083	0.132577	0.000642	0.012945	0.007353	0.002060	0.020601
21-Jan-2026	0.048654	13.444300	21.107900	3.289330	47.115878	1.886360	0.025765	0.260560	0.048607	0.003706	0.002093	0.133239	0.000646	0.013009	0.007390	0.002070	0.020703
22-Jan-2026	0.048654	13.514100	21.217500	3.306420	47.360545	1.896160	0.025899	0.261913	0.048860	0.003726	0.002104	0.133931	0.000649	0.013077	0.007428	0.002081	0.020811
23-Jan-2026	0.048654	13.585700	21.329900	3.323930	47.611437	1.906200	0.026036	0.263300	0.049119	0.003745	0.002115	0.134640	0.000652	0.013146	0.007467	0.002092	0.020921
24-Jan-2026	0.048654	13.656100	21.440500	3.341160	47.858179	1.916090	0.026171	0.264665	0.049373	0.003765	0.002126	0.135338	0.000656	0.013214	0.007506	0.002103	0.021030
25-Jan-2026	0.048654	13.725500	21.549400	3.358130	48.101353	1.925820	0.026304	0.266009	0.049624	0.003784	0.002137	0.136025	0.000659	0.013282	0.007544	0.002114	0.021136
26-Jan-2026	0.048654	13.798700	21.664400	3.376050	48.357928	1.936100	0.026444	0.267429	0.049889	0.003804	0.002148	0.136751	0.000663	0.013352	0.007584	0.002125	0.021249
27-Jan-2026	0.048654	13.864000	21.766900	3.392030	48.586788	1.945260	0.026569	0.268694	0.050125	0.003822	0.002159	0.137398	0.000666	0.013416	0.007620	0.002135	0.021350
28-Jan-2026	0.048654	13.899900	21.823100	3.400790	48.712504	1.950280	0.026638	0.269389	0.050254	0.003832	0.002164	0.137753	0.000667	0.013450	0.007640	0.002140	0.021405
29-Jan-2026	0.048654	13.974500	21.940300	3.419050	48.973974	1.960750	0.026781	0.270835	0.050524	0.003852	0.002176	0.138493	0.000671	0.013522	0.007681	0.002152	0.021520
30-Jan-2026	0.048654	14.047200	22.054400	3.436830	49.228724	1.970950	0.026920	0.272244	0.050787	0.003872	0.002187	0.139213	0.000674	0.013593	0.007721	0.002163	0.021632
31-Jan-2026	0.048654	14.140400	22.200900	3.459650	49.555418	1.984040	0.027099	0.274051	0.051124	0.003898	0.002202	0.140138	0.000679	0.013683	0.007772	0.002178	0.021775
1-Feb-2026	0.048654	14.242000	22.360200	3.484490	49.911404	1.998280	0.027294	0.276019	0.051491	0.003926	0.002217	0.141144	0.000684	0.013781	0.007828	0.002193	0.021932
2-Feb-2026	0.048654	14.341800	22.517100	3.508930	50.261248	2.012300	0.027485	0.277955	0.051852	0.003954	0.002233	0.142134	0.000689	0.013878	0.007883	0.002209	0.022086
3-Feb-2026	0.048654	14.439300	22.670100	3.532780	50.602920	2.025980	0.027672	0.279844	0.052205	0.003981	0.002248	0.143100	0.000693	0.013972	0.007936	0.002224	0.022236
4-Feb-2026	0.048654	14.557200	22.855200	3.561630	51.016121	2.042520	0.027898	0.282129	0.052631	0.004013	0.002266	0.144268	0.000699	0.014086	0.008001	0.002242	0.022417
5-Feb-2026	0.048654	14.678000	23.044800	3.591170	51.439404	2.059460	0.028129	0.284469	0.053068	0.004046	0.002285	0.145465	0.000705	0.014203	0.008068	0.002260	0.022603
6-Feb-2026	0.048654	14.787800	23.217300	3.618050	51.824267	2.074880	0.028340	0.286598	0.053465	0.004077	0.002302	0.146554	0.000710	0.014310	0.008128	0.002277	0.022772
7-Feb-2026	0.048654	14.894300	23.384500	3.644100	52.197471	2.089820	0.028544	0.288662	0.053850	0.004106	0.002319	0.147609	0.000715	0.014413	0.008187	0.002294	0.022936
8-Feb-2026	0.048654	14.704600	23.086600	3.597690	51.532674	2.063200	0.028180	0.284985	0.053164	0.004054	0.002289	0.145729	0.000706	0.014229	0.008082	0.002264	0.022644
9-Feb-2026	0.048654	14.781700	23.207600	3.616540	51.802817	2.074010	0.028328	0.286479	0.053443	0.004075	0.002301	0.146492	0.000710	0.014304	0.008125	0.002276	0.022763
10-Feb-2026	0.048654	14.859100	23.329200	3.635490	52.074121	2.084880	0.028477	0.287980	0.053723	0.004096	0.002313	0.147260	0.000713	0.014379	0.008167	0.002288	0.022882
11-Feb-2026	0.048654	14.938100	23.453200	3.654810	52.350943	2.095960	0.028628	0.289510	0.054008	0.004118	0.002326	0.148043	0.000717	0.014455	0.008211	0.002300	0.023004
12-Feb-2026	0.048654	15.018600	23.579600	3.674510	52.633076	2.107250	0.028782	0.291071	0.054299	0.004140	0.002338	0.148841	0.000721	0.014533	0.008255	0.002313	0.023128
13-Feb-2026	0.048654	15.099500	23.706600	3.694300	52.916579	2.118600	0.028937	0.292639	0.054592	0.004163	0.002351	0.149642	0.000725	0.014611	0.008299	0.002325	0.023252
14-Feb-2026	0.048654	15.172300	23.821000	3.712120	53.171743	2.128820	0.029077	0.294050	0.054855	0.004183	0.002362	0.150364	0.000729	0.014682	0.008339	0.002336	0.023364
15-Feb-2026	0.048654	15.281500	23.992400	3.738840	53.554449	2.144150	0.029286	0.296166	0.055250	0.004213	0.002379	0.151446	0.000734	0.014787	0.008399	0.002353	0.023533
16-Feb-2026	0.048654	15.645200	24.563300	3.827810	54.828986	2.195170	0.029983	0.303214	0.056565	0.004313	0.002436	0.155050	0.000751	0.015139	0.008599	0.002409	0.024093
17-Feb-2026	0.048654	15.973600	25.079000	3.908170	55.979923	2.241250	0.030612	0.309579	0.057752	0.004404	0.002487	0.158305	0.000767	0.015457	0.008780	0.002460	0.024598
18-Feb-2026	0.048654	16.278700	25.557900	3.982800	57.049084	2.284050	0.031197	0.315492	0.058855	0.004488	0.002535	0.161328	0.000782	0.015752	0.008947	0.002507	0.025068
19-Feb-2026	0.048654	16.621300	26.095900	4.066640	58.249810	2.332130	0.031854	0.322133	0.060094	0.004582	0.002588	0.164724	0.000798	0.016084	0.009136	0.002560	0.025596
20-Feb-2026	0.048654	16.910300	26.549600	4.137340	59.262585	2.372680	0.032407	0.327733	0.061139	0.004662	0.002633	0.167588	0.000812	0.016363	0.009295	0.002604	0.026041
21-Feb-2026	0.048654	17.117700	26.875200	4.188080	59.989410	2.401780	0.032805	0.331753	0.061888	0.004719	0.002665	0.169643	0.000822	0.016564	0.009409	0.002636	0.026360
22-Feb-2026	0.048654	17.288600	27.143600	4.229900	60.588362	2.425760	0.033132	0.335065	0.062506	0.004766	0.002692	0.171337	0.000830	0.016729	0.009503	0.002662	0.026623
23-Feb-2026	0.048654	17.468300	27.425700	4.273860	61.218101	2.450970	0.033477	0.338547	0.063156	0.004816	0.002720	0.173118	0.000839	0.016903	0.009601	0.002690	0.026900
24-Feb-2026	0.048654	17.672900	27.746800	4.323910	61.935093	2.479670	0.033869	0.342512	0.063895	0.004872	0.002752	0.175145	0.000849	0.017101	0.009714	0.002722	0.027215
25-Feb-2026	0.048654	17.895600	28.096600	4.378410	62.715606	2.510930	0.034296	0.346829	0.064701	0.004933	0.002786	0.177353	0.000859	0.017317	0.009836	0.002756	0.027558
26-Feb-2026	0.048654	18.122300	28.452500	4.433870	63.510060	2.542730	0.034730	0.351222	0.065520	0.004996	0.002822	0.179599	0.000870	0.017536	0.009961	0.002791	0.027907
27-Feb-2026	0.048654	18.342200	28.797700	4.487670	64.280698	2.573590	0.035152	0.355484	0.066315	0.005057	0.002856	0.181779	0.000881	0.017749	0.010082	0.002825	0.028246
28-Feb-2026	0.048654	18.552200	29.127400	4.539040	65.016610	2.603050	0.035554	0.359553	0.067075	0.005114	0.002888	0.183860	0.000891	0.017952	0.010197	0.002857	0.028569
1-Mar-2026	0.048654	18.746600	29.432600	4.586620	65.697961	2.630330	0.035927	0.363322	0.067778	0.005168	0.002919	0.185787	0.000900	0.018140	0.010304	0.002887	0.028869
2-Mar-2026	0.048654	15.780400	24.775600	3.860890	55.302804	2.214140	0.030242	0.305834	0.057053	0.004350	0.002457	0.156390	0.000758	0.015270	0.008674	0.002430	0.024301
3-Mar-2026	0.048654	15.854000	24.891100	3.878890	55.560707	2.224460	0.030383	0.307261	0.057319	0.004371	0.002468	0.157119	0.000761	0.015341	0.008714	0.002441	0.024414
4-Mar-2026	0.048654	15.936400	25.020600	3.899070	55.849561	2.236030	0.030541	0.308859	0.057617	0.004393	0.002481	0.157936	0.000765	0.015421	0.008759	0.002454	0.024541

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Mar-2026	0.048654	16.025200	25.159900	3.920780	56.160696	2.248490	0.030711	0.310579	0.057938	0.004418	0.002495	0.158816	0.000769	0.015507	0.008808	0.002468	0.024678
6-Mar-2026	0.048654	16.115000	25.301000	3.942760	56.475441	2.261090	0.030883	0.312320	0.058263	0.004443	0.002509	0.159706	0.000774	0.015594	0.008858	0.002482	0.024816
7-Mar-2026	0.048654	16.203200	25.439500	3.964350	56.784584	2.273470	0.031052	0.314030	0.058582	0.004467	0.002523	0.160581	0.000778	0.015679	0.008906	0.002495	0.024952
8-Mar-2026	0.048654	16.283700	25.565800	3.984030	57.066634	2.284760	0.031207	0.315589	0.058873	0.004489	0.002535	0.161378	0.000782	0.015757	0.008950	0.002508	0.025076
9-Mar-2026	0.048654	16.347100	25.665400	3.999550	57.288856	2.293660	0.031328	0.316818	0.059102	0.004507	0.002545	0.162007	0.000785	0.015818	0.008985	0.002517	0.025174
10-Mar-2026	0.048654	16.391200	25.734600	4.010340	57.443407	2.299840	0.031413	0.317673	0.059262	0.004519	0.002552	0.162444	0.000787	0.015861	0.009009	0.002524	0.025241
11-Mar-2026	0.048654	16.421900	25.782800	4.017850	57.550991	2.304150	0.031471	0.318268	0.059373	0.004527	0.002557	0.162748	0.000789	0.015891	0.009026	0.002529	0.025289
12-Mar-2026	0.048654	16.456900	25.837700	4.026410	57.673636	2.309060	0.031538	0.318946	0.059499	0.004537	0.002562	0.163095	0.000790	0.015925	0.009045	0.002534	0.025343
13-Mar-2026	0.048654	16.503500	25.910900	4.037810	57.836941	2.315600	0.031628	0.319849	0.059668	0.004550	0.002570	0.163557	0.000792	0.015970	0.009071	0.002541	0.025414
14-Mar-2026	0.048654	16.564200	26.006200	4.052660	58.049661	2.324110	0.031744	0.321025	0.059887	0.004566	0.002579	0.164158	0.000795	0.016028	0.009104	0.002551	0.025508
15-Mar-2026	0.048654	16.748300	26.295300	4.097710	58.694875	2.349950	0.032097	0.324594	0.060553	0.004617	0.002608	0.165983	0.000804	0.016207	0.009206	0.002579	0.025791
16-Mar-2026	0.048654	16.948400	26.609400	4.146660	59.396101	2.378020	0.032480	0.328472	0.061276	0.004672	0.002639	0.167966	0.000814	0.016400	0.009316	0.002610	0.026099
17-Mar-2026	0.048654	17.140700	26.911400	4.193720	60.070067	2.405010	0.032849	0.332199	0.061972	0.004725	0.002669	0.169872	0.000823	0.016586	0.009421	0.002640	0.026396
18-Mar-2026	0.048654	17.331600	27.211100	4.240420	60.739055	2.431790	0.033215	0.335899	0.062662	0.004778	0.002698	0.171764	0.000832	0.016771	0.009526	0.002669	0.026690
19-Mar-2026	0.048654	17.524000	27.513200	4.287490	61.413312	2.458790	0.033584	0.339627	0.063357	0.004831	0.002728	0.173670	0.000841	0.016957	0.009632	0.002699	0.026986
20-Mar-2026	0.048654	17.719500	27.820100	4.335330	62.098480	2.486220	0.033958	0.343416	0.064064	0.004885	0.002759	0.175608	0.000851	0.017146	0.009739	0.002729	0.027287
21-Mar-2026	0.048654	17.857500	28.036700	4.369080	62.582049	2.505580	0.034223	0.346090	0.064563	0.004923	0.002780	0.176975	0.000857	0.017280	0.009815	0.002750	0.027499
22-Mar-2026	0.048654	18.050200	28.339300	4.416240	63.257426	2.532620	0.034592	0.349826	0.065260	0.004976	0.002810	0.178885	0.000867	0.017466	0.009921	0.002780	0.027796
23-Mar-2026	0.048654	18.247300	28.648700	4.464450	63.948113	2.560270	0.034970	0.353644	0.065972	0.005030	0.002841	0.180838	0.000876	0.017657	0.010030	0.002810	0.028100
24-Mar-2026	0.048654	18.449000	28.965400	4.513800	64.654981	2.588570	0.035356	0.357554	0.066702	0.005086	0.002872	0.182837	0.000886	0.017852	0.010140	0.002841	0.028410
25-Mar-2026	0.048654	18.655600	29.289800	4.564360	65.379068	2.617560	0.035752	0.361559	0.067449	0.005143	0.002905	0.184885	0.000896	0.018052	0.010254	0.002873	0.028728
26-Mar-2026	0.048654	18.866900	29.621500	4.616050	66.119543	2.647210	0.036157	0.365653	0.068212	0.005201	0.002937	0.186979	0.000906	0.018257	0.010370	0.002905	0.029054
27-Mar-2026	0.048654	19.084400	29.963000	4.669260	66.881759	2.677730	0.036574	0.369869	0.068999	0.005261	0.002971	0.189134	0.000916	0.018467	0.010490	0.002939	0.029389
28-Mar-2026	0.048654	19.308100	30.314200	4.723990	67.665717	2.709110	0.037003	0.374204	0.069808	0.005323	0.003006	0.191351	0.000927	0.018684	0.010613	0.002973	0.029733
29-Mar-2026	0.048654	19.534800	30.670100	4.779460	68.460212	2.740920	0.037437	0.378598	0.070627	0.005385	0.003041	0.193598	0.000938	0.018903	0.010737	0.003008	0.030082
30-Mar-2026	0.048654	19.767500	31.035500	4.836400	69.275743	2.773570	0.037883	0.383108	0.071469	0.005449	0.003078	0.195904	0.000949	0.019128	0.010865	0.003044	0.030441
31-Mar-2026	0.048654	20.008800	31.414300	4.895430	70.121354	2.807420	0.038345	0.387784	0.072341	0.005516	0.003115	0.198295	0.000961	0.019362	0.010998	0.003081	0.030812
1-Apr-2026	0.048654	20.254600	31.800200	4.955560	70.982732	2.841910	0.038816	0.392547	0.073230	0.005584	0.003154	0.200731	0.000973	0.019599	0.011133	0.003119	0.031191
2-Apr-2026	0.048654	20.409300	32.043100	4.993410	71.524884	2.863620	0.039113	0.395546	0.073789	0.005626	0.003178	0.202264	0.000980	0.019749	0.011218	0.003143	0.031429
3-Apr-2026	0.048654	20.466500	32.132900	5.007410	71.725365	2.871640	0.039223	0.396654	0.073996	0.005642	0.003187	0.202831	0.000983	0.019804	0.011249	0.003152	0.031517
4-Apr-2026	0.048654	20.492300	32.173400	5.013720	71.815772	2.875260	0.039272	0.397154	0.074089	0.005649	0.003191	0.203087	0.000984	0.019829	0.011263	0.003156	0.031557
5-Apr-2026	0.048654	20.506900	32.196400	5.017300	71.866971	2.877320	0.039300	0.397438	0.074142	0.005653	0.003193	0.203232	0.000985	0.019844	0.011272	0.003158	0.031579
6-Apr-2026	0.048654	20.518000	32.213800	5.020010	71.905847	2.878870	0.039321	0.397653	0.074182	0.005656	0.003195	0.203342	0.000985	0.019854	0.011278	0.003160	0.031596
7-Apr-2026	0.048654	20.529100	32.231200	5.022720	71.944724	2.880420	0.039343	0.397867	0.074222	0.005659	0.003196	0.203451	0.000986	0.019865	0.011284	0.003161	0.031613
8-Apr-2026	0.048654	20.541200	32.250200	5.025690	71.987168	2.882130	0.039366	0.398102	0.074266	0.005663	0.003198	0.203572	0.000986	0.019877	0.011290	0.003163	0.031632
9-Apr-2026	0.048654	20.554300	32.270900	5.028910	72.033138	2.883970	0.039391	0.398357	0.074313	0.005666	0.003200	0.203702	0.000987	0.019889	0.011298	0.003165	0.031652
10-Apr-2026	0.048654	20.568000	32.292400	5.032260	72.081143	2.885900	0.039417	0.398623	0.074363	0.005670	0.003202	0.203838	0.000988	0.019903	0.011305	0.003167	0.031673
11-Apr-2026	0.048654	20.581800	32.314000	5.035630	72.129479	2.887830	0.039444	0.398890	0.074413	0.005674	0.003204	0.203974	0.000988	0.019916	0.011313	0.003169	0.031695
12-Apr-2026	0.048654	20.595300	32.335200	5.038930	72.176778	2.889720	0.039469	0.399151	0.074461	0.005678	0.003207	0.204108	0.000989	0.019929	0.011320	0.003172	0.031715
13-Apr-2026	0.048654	20.608200	32.355500	5.042090	72.222002	2.891530	0.039494	0.399402	0.074508	0.005681	0.003209	0.204236	0.000990	0.019942	0.011327	0.003174	0.031735
14-Apr-2026	0.048654	20.620500	32.374600	5.045080	72.265028	2.893250	0.039518	0.399638	0.074552	0.005685	0.003210	0.204357	0.000990	0.019953	0.011334	0.003175	0.031754
15-Apr-2026	0.048654	20.631900	32.392600	5.047880	72.305024	2.894850	0.039540	0.399860	0.074594	0.005688	0.003212	0.204471	0.000991	0.019965	0.011340	0.003177	0.031772
16-Apr-2026	0.048654	20.642500	32.409300	5.050480	72.342199	2.896350	0.039560	0.400066	0.074632	0.005691	0.003214	0.204576	0.000991	0.019975	0.011346	0.003179	0.031788
17-Apr-2026	0.048654	20.652400	32.424800	5.052900	72.376885	2.897730	0.039579	0.400258	0.074668	0.005693	0.003215	0.204674	0.000992	0.019984	0.011352	0.003180	0.031803
18-Apr-2026	0.048654	20.661500	32.439100	5.055130	72.408791	2.899010	0.039596	0.400434	0.074701	0.005696	0.003217	0.204764	0.000992	0.019993	0.011357	0.003182	0.031817
19-Apr-2026	0.048654	20.669900	32.452200	5.057170	72.438166	2.900180	0.039612	0.400596	0.074731	0.005698	0.003218	0.204847	0.000993	0.020001	0.011361	0.003183	0.031830
20-Apr-2026	0.048654	20.677500	32.464300	5.059050	72.464885	2.901260	0.039627	0.400745	0.074759	0.005700	0.003219	0.204923	0.000993	0.020009	0.011365	0.003184	0.031842
21-Apr-2026	0.048654	20.684500	32.475300	5.060760	72.489406	2.902240	0.039640	0.400881	0.074784	0.005702	0.003220	0.204992	0.000993	0.020015	0.011369	0.003185	0.031853
22-Apr-2026	0.048654	20.691000	32.485300	5.062330	72.512102	2.903140	0.039653	0.401005	0.074807	0.005704	0.003221	0.205056	0.000994	0.020022	0.011373	0.003186	0.031863
23-Apr-2026	0.048654	20.696800	32.494500	5.063760	72.532473	2.903960	0.039664	0.401118	0.074828	0.005706	0.003222	0.205114	0.000994	0.020027	0.011376	0.003187	0.031872
24-Apr-2026	0.048654	20.702100	32.502800	5.065050	72.551020	2.904700	0.039674	0.401220	0.074847	0.005707	0.003223	0.205166	0.000994	0.020032	0.011379	0.003188	0.031880

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-Apr-2026	0.048654	20.706900	32.510300	5.066220	72.567823	2.905370	0.039683	0.401313	0.074865	0.005708	0.003224	0.205214	0.000994	0.020037	0.011381	0.003189	0.031887
26-Apr-2026	0.048654	20.711200	32.517100	5.067280	72.582925	2.905980	0.039692	0.401397	0.074880	0.005710	0.003225	0.205256	0.000994	0.020041	0.011384	0.003189	0.031894
27-Apr-2026	0.048654	20.715100	32.523200	5.068220	72.596535	2.906520	0.039699	0.401472	0.074894	0.005711	0.003225	0.205295	0.000995	0.020045	0.011386	0.003190	0.031900
28-Apr-2026	0.048654	20.718500	32.528600	5.069080	72.608566	2.907010	0.039706	0.401539	0.074907	0.005712	0.003226	0.205329	0.000995	0.020048	0.011388	0.003191	0.031905
29-Apr-2026	0.048654	20.721600	32.533500	5.069840	72.619436	2.907450	0.039712	0.401600	0.074918	0.005712	0.003226	0.205360	0.000995	0.020051	0.011390	0.003191	0.031910
30-Apr-2026	0.048663	20.724100	32.537300	5.070430	72.628108	2.907790	0.039716	0.401647	0.074927	0.005713	0.003227	0.205384	0.000995	0.020054	0.011391	0.003191	0.031914
1-May-2026	0.048860	20.717900	32.527600	5.068920	72.606409	2.906920	0.039704	0.401527	0.074905	0.005711	0.003226	0.205323	0.000995	0.020048	0.011387	0.003190	0.031904
2-May-2026	0.050003	20.681300	32.470200	5.059980	72.478204	2.901790	0.039634	0.400818	0.074773	0.005701	0.003220	0.204961	0.000993	0.020012	0.011367	0.003185	0.031848
3-May-2026	0.055834	20.494600	32.177100	5.014300	71.823904	2.875600	0.039277	0.397200	0.074098	0.005650	0.003191	0.203110	0.000984	0.019832	0.011265	0.003156	0.031560
4-May-2026	0.064365	20.276500	31.834600	4.960920	71.059489	2.844980	0.038858	0.392972	0.073309	0.005590	0.003157	0.200948	0.000974	0.019621	0.011145	0.003122	0.031224
5-May-2026	0.073059	19.912200	31.262700	4.871800	69.782836	2.793880	0.038160	0.385913	0.071992	0.005489	0.003100	0.197338	0.000956	0.019268	0.010945	0.003066	0.030664
6-May-2026	0.080897	19.422400	30.493600	4.751960	68.066304	2.725150	0.037222	0.376419	0.070221	0.005354	0.003024	0.192484	0.000933	0.018794	0.010675	0.002991	0.029909
7-May-2026	0.093015	18.979100	29.797600	4.643490	66.512705	2.662940	0.036372	0.367827	0.068618	0.005232	0.002955	0.188090	0.000911	0.018365	0.010432	0.002923	0.029227
8-May-2026	0.100529	18.567900	29.152100	4.542890	65.071667	2.605250	0.035584	0.359858	0.067131	0.005119	0.002891	0.184015	0.000892	0.017967	0.010206	0.002859	0.028593
9-May-2026	0.102959	18.201600	28.577000	4.453270	63.787961	2.553860	0.034882	0.352759	0.065807	0.005018	0.002834	0.180385	0.000874	0.017613	0.010004	0.002803	0.028029
10-May-2026	0.105951	17.961600	28.200100	4.394550	62.946872	2.520180	0.034422	0.348107	0.064939	0.004952	0.002797	0.178007	0.000862	0.017381	0.009872	0.002766	0.027660
11-May-2026	0.152083	17.854200	28.031600	4.368290	62.570556	2.505120	0.034216	0.346027	0.064551	0.004922	0.002780	0.176943	0.000857	0.017277	0.009813	0.002749	0.027494
12-May-2026	0.158216	17.656500	27.721100	4.319910	61.877670	2.477380	0.033837	0.342195	0.063836	0.004867	0.002749	0.174983	0.000848	0.017085	0.009705	0.002719	0.027190
13-May-2026	0.162299	17.441200	27.383100	4.267230	61.123130	2.447170	0.033425	0.338022	0.063058	0.004808	0.002716	0.172849	0.000837	0.016877	0.009586	0.002686	0.026858
14-May-2026	0.163369	17.110400	26.863700	4.186290	59.963811	2.400750	0.032791	0.331610	0.061862	0.004717	0.002664	0.169571	0.000822	0.016557	0.009405	0.002635	0.026349
15-May-2026	0.166052	16.815200	26.400400	4.114080	58.929336	2.359340	0.032225	0.325891	0.060795	0.004636	0.002618	0.166646	0.000807	0.016271	0.009242	0.002589	0.025894
16-May-2026	0.172526	16.526300	25.946800	4.043400	57.916892	2.318800	0.031672	0.320292	0.059750	0.004556	0.002573	0.163783	0.000794	0.015992	0.009084	0.002545	0.025450
17-May-2026	0.174369	16.290800	25.577000	3.985770	57.091528	2.285760	0.031220	0.315727	0.058899	0.004491	0.002536	0.161449	0.000782	0.015764	0.008954	0.002509	0.025087
18-May-2026	0.178115	16.046800	25.193900	3.926070	56.236416	2.251520	0.030753	0.310998	0.058017	0.004424	0.002498	0.159030	0.000771	0.015528	0.008820	0.002471	0.024711
19-May-2026	0.183217	15.840900	24.870700	3.875700	55.514860	2.222640	0.030358	0.307008	0.057272	0.004367	0.002466	0.156990	0.000761	0.015329	0.008707	0.002439	0.024394
20-May-2026	0.217192	14.362500	22.549500	3.513980	50.333732	2.015190	0.027525	0.278355	0.051927	0.003959	0.002236	0.142338	0.000690	0.013898	0.007894	0.002212	0.022117
21-May-2026	0.222766	14.031600	22.029900	3.433010	49.174040	1.968760	0.026891	0.271941	0.050731	0.003868	0.002185	0.139058	0.000674	0.013578	0.007712	0.002161	0.021608
22-May-2026	0.229964	13.502700	21.199600	3.303630	47.320590	1.894560	0.025877	0.261692	0.048819	0.003722	0.002102	0.133818	0.000648	0.013066	0.007422	0.002079	0.020793
23-May-2026	0.232653	13.046100	20.482700	3.191910	45.720397	1.830500	0.025002	0.252843	0.047168	0.003597	0.002031	0.129292	0.000626	0.012624	0.007171	0.002009	0.020090
24-May-2026	0.248898	11.930400	18.731100	2.918950	41.810445	1.673960	0.022864	0.231220	0.043134	0.003289	0.001858	0.118236	0.000573	0.011545	0.006557	0.001837	0.018372
25-May-2026	0.268344	10.783900	16.931100	2.638440	37.792494	1.513090	0.020667	0.209000	0.038989	0.002973	0.001679	0.106873	0.000518	0.010435	0.005927	0.001661	0.016607
26-May-2026	0.281673	10.208600	16.027800	2.497670	35.776279	1.432360	0.019564	0.197849	0.036909	0.002814	0.001589	0.101171	0.000490	0.009878	0.005611	0.001572	0.015721
27-May-2026	0.292279	9.793550	15.376100	2.396130	34.321758	1.374130	0.018769	0.189806	0.035408	0.002700	0.001525	0.097058	0.000470	0.009477	0.005383	0.001508	0.015081
28-May-2026	0.302511	9.804940	15.394000	2.398920	34.361688	1.375730	0.018791	0.190026	0.035449	0.002703	0.001527	0.097171	0.000471	0.009488	0.005389	0.001510	0.015099
29-May-2026	0.310499	10.684300	16.774700	2.614070	37.443437	1.499110	0.020476	0.207070	0.038629	0.002945	0.001663	0.105886	0.000513	0.010339	0.005873	0.001645	0.016453
30-May-2026	0.327833	10.469900	16.438000	2.561610	36.692050	1.469030	0.020065	0.202914	0.037854	0.002886	0.001630	0.103761	0.000503	0.010131	0.005755	0.001612	0.016123
31-May-2026	0.331744	10.659500	16.735600	2.607980	37.356433	1.495620	0.020428	0.206587	0.038539	0.002939	0.001660	0.105640	0.000512	0.010315	0.005859	0.001641	0.016415
1-Jun-2026	0.340687	10.502600	16.489300	2.569600	36.806605	1.473610	0.020128	0.203547	0.037972	0.002895	0.001635	0.104085	0.000504	0.010163	0.005773	0.001617	0.016173
2-Jun-2026	0.422419	10.084300	15.832700	2.467270	35.340715	1.414930	0.019326	0.195441	0.036460	0.002780	0.001570	0.099940	0.000484	0.009758	0.005543	0.001553	0.015529
3-Jun-2026	0.429588	10.078100	15.822900	2.465750	35.318974	1.414060	0.019314	0.195321	0.036437	0.002778	0.001569	0.099879	0.000484	0.009752	0.005539	0.001552	0.015520
4-Jun-2026	0.450107	9.915200	15.567100	2.425890	34.748069	1.391200	0.019002	0.192163	0.035848	0.002733	0.001544	0.098264	0.000476	0.009594	0.005450	0.001527	0.015269
5-Jun-2026	0.472104	9.420860	14.791000	2.304940	33.015630	1.321840	0.018054	0.182583	0.034061	0.002597	0.001467	0.093365	0.000452	0.009116	0.005178	0.001451	0.014508
6-Jun-2026	0.478277	8.980020	14.092400	2.199030	31.478715	1.258830	0.017206	0.174008	0.032551	0.002474	0.001402	0.089154	0.000431	0.008697	0.004935	0.001383	0.013831
7-Jun-2026	0.511317	9.059000	14.189500	2.226300	31.788226	1.265120	0.017341	0.175399	0.033205	0.002490	0.001428	0.090568	0.000433	0.008806	0.004974	0.001396	0.013963
8-Jun-2026	0.605901	8.665930	13.469200	2.160320	30.535025	1.191190	0.016519	0.167188	0.033263	0.002356	0.001423	0.089014	0.000409	0.008555	0.004743	0.001340	0.013401
9-Jun-2026	0.787772	8.100390	12.385500	2.079060	28.788243	1.075060	0.015305	0.155193	0.034105	0.002148	0.001441	0.087788	0.000372	0.008255	0.004403	0.001262	0.012618
10-Jun-2026	0.948852	7.916710	11.968200	2.071720	28.299368	1.024450	0.014855	0.150824	0.035314	0.002061	0.001482	0.088815	0.000356	0.008240	0.004283	0.001239	0.012389
11-Jun-2026	1.194437	7.753400	11.613400	2.060350	27.844761	0.982358	0.014462	0.146973	0.036153	0.001988	0.001510	0.089343	0.000343	0.008206	0.004179	0.001218	0.012178
12-Jun-2026	1.412600	7.670510	11.426800	2.056380	27.621436	0.959517	0.014250	0.144840	0.036645	0.001949	0.001528	0.089749	0.000336	0.008197	0.004125	0.001207	0.012069
13-Jun-2026	1.700147	7.574920	11.245200	2.041860	27.322955	0.939818	0.014031	0.142595	0.036715	0.001915	0.001530	0.089484	0.000330	0.008144	0.004068	0.001193	0.011930
14-Jun-2026	2.063810	7.497620	11.101100	2.029250	27.078009	0.924527	0.013860	0.140828	0.036741	0.001888	0.001530	0.089231	0.000325	0.008099	0.004023	0.001182	0.011818

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Jun-2026	2.395593	7.451110	11.017800	2.020330	26.925141	0.916074	0.013757	0.139686	0.036673	0.001874	0.001527	0.089022	0.000322	0.008066	0.003996	0.001175	0.011745
16-Jun-2026	2.648957	7.435630	10.998500	2.014570	26.862767	0.914884	0.013724	0.139200	0.036478	0.001873	0.001521	0.088791	0.000322	0.008044	0.003988	0.001171	0.011712
17-Jun-2026	2.872767	7.344260	10.842300	1.995310	26.555304	0.899759	0.013537	0.137212	0.036292	0.001846	0.001513	0.088200	0.000317	0.007972	0.003936	0.001157	0.011573
18-Jun-2026	2.979740	7.171910	10.544200	1.960560	25.981845	0.870408	0.013185	0.133605	0.036041	0.001792	0.001500	0.087122	0.000307	0.007840	0.003838	0.001132	0.011316
19-Jun-2026	3.054457	7.012400	10.270900	1.927520	25.447490	0.843693	0.012857	0.130213	0.035737	0.001744	0.001487	0.086067	0.000298	0.007715	0.003747	0.001108	0.011076
20-Jun-2026	3.026940	6.859290	10.012900	1.894110	24.927592	0.819074	0.012546	0.126944	0.035351	0.001700	0.001471	0.085006	0.000290	0.007589	0.003661	0.001084	0.010838
21-Jun-2026	2.983543	6.715710	9.768870	1.863560	24.443268	0.795584	0.012257	0.123936	0.035043	0.001658	0.001458	0.084053	0.000282	0.007473	0.003580	0.001062	0.010619
22-Jun-2026	2.946703	6.581920	9.538890	1.835590	23.994014	0.773252	0.011984	0.121082	0.034764	0.001620	0.001446	0.083238	0.000275	0.007369	0.003505	0.001041	0.010413
23-Jun-2026	2.962427	6.448420	9.302720	1.809770	23.554338	0.749763	0.011713	0.118282	0.034628	0.001579	0.001439	0.082569	0.000267	0.007274	0.003428	0.001021	0.010214
24-Jun-2026	3.021437	6.305250	9.055780	1.780260	23.075320	0.725784	0.011427	0.115303	0.034385	0.001536	0.001427	0.081707	0.000259	0.007164	0.003347	0.001000	0.009999
25-Jun-2026	3.091433	6.228440	8.913710	1.766920	22.828591	0.711317	0.011274	0.113690	0.034404	0.001512	0.001426	0.081495	0.000254	0.007117	0.003302	0.000989	0.009887
26-Jun-2026	3.211283	6.118600	8.712110	1.747530	22.474473	0.690843	0.011054	0.111424	0.034411	0.001478	0.001423	0.081148	0.000247	0.007049	0.003238	0.000973	0.009727
27-Jun-2026	3.296950	6.009900	8.524760	1.724810	22.109488	0.672785	0.010838	0.109171	0.034200	0.001447	0.001414	0.080524	0.000241	0.006965	0.003177	0.000956	0.009562
28-Jun-2026	3.348957	5.939460	8.398310	1.711060	21.876977	0.660416	0.010701	0.107705	0.034122	0.001428	0.001410	0.080290	0.000237	0.006918	0.003137	0.000945	0.009454
29-Jun-2026	3.410043	5.832270	8.210350	1.689590	21.520910	0.642029	0.010488	0.105521	0.033970	0.001398	0.001402	0.079757	0.000231	0.006840	0.003076	0.000929	0.009293
30-Jun-2026	3.457353	5.729380	8.029870	1.669010	21.179245	0.624364	0.010283	0.103419	0.033826	0.001368	0.001395	0.079243	0.000225	0.006765	0.003017	0.000914	0.009137
1-Jul-2026	3.595137	5.586780	7.836660	1.621690	20.628309	0.612175	0.010066	0.100724	0.032637	0.001354	0.001351	0.077577	0.000220	0.006587	0.002946	0.000889	0.008886
2-Jul-2026	3.962487	5.603160	7.839660	1.627740	20.694124	0.613211	0.010154	0.101330	0.032881	0.001376	0.001358	0.078814	0.000220	0.006635	0.002956	0.000890	0.008900
3-Jul-2026	5.879873	5.656730	7.929220	1.637210	20.866886	0.622694	0.010271	0.102356	0.032962	0.001403	0.001360	0.079497	0.000223	0.006682	0.002989	0.000897	0.008974
4-Jul-2026	8.045207	5.749410	8.091980	1.653950	21.167243	0.639042	0.010451	0.104097	0.032992	0.001436	0.001364	0.080092	0.000229	0.006750	0.003043	0.000910	0.009103
5-Jul-2026	9.589950	5.795500	8.170020	1.662800	21.318774	0.647146	0.010550	0.105048	0.032967	0.001457	0.001367	0.080584	0.000231	0.006786	0.003070	0.000916	0.009162
6-Jul-2026	10.766833	5.828030	8.227070	1.668160	21.422074	0.653054	0.010616	0.105701	0.032977	0.001469	0.001368	0.080827	0.000233	0.006812	0.003089	0.000921	0.009207
7-Jul-2026	11.105433	5.852490	8.272090	1.671310	21.496122	0.657985	0.010669	0.106218	0.032962	0.001481	0.001367	0.080982	0.000235	0.006829	0.003105	0.000924	0.009240
8-Jul-2026	11.690167	5.923960	8.405770	1.681220	21.715392	0.671868	0.010804	0.107566	0.032976	0.001505	0.001366	0.081177	0.000239	0.006877	0.003149	0.000934	0.009344
9-Jul-2026	12.911767	5.968640	8.488340	1.688310	21.856155	0.680407	0.010891	0.108430	0.032959	0.001522	0.001366	0.081367	0.000242	0.006906	0.003175	0.000941	0.009408
10-Jul-2026	14.385433	5.987410	8.528900	1.689120	21.906359	0.685112	0.010929	0.108810	0.032886	0.001531	0.001363	0.081309	0.000244	0.006912	0.003188	0.000943	0.009433
11-Jul-2026	14.736767	5.988640	8.534380	1.688500	21.906877	0.685907	0.010931	0.108833	0.032829	0.001532	0.001361	0.081245	0.000244	0.006908	0.003189	0.000943	0.009434
12-Jul-2026	15.235900	5.969430	8.509520	1.682780	21.835355	0.684099	0.010895	0.108472	0.032660	0.001528	0.001355	0.080935	0.000243	0.006880	0.003179	0.000940	0.009402
13-Jul-2026	15.219033	5.957540	8.505800	1.675530	21.775810	0.685112	0.010876	0.108279	0.032418	0.001528	0.001346	0.080477	0.000244	0.006851	0.003174	0.000938	0.009379
14-Jul-2026	15.890900	6.014910	8.610120	1.684850	21.957443	0.695818	0.010984	0.109355	0.032453	0.001548	0.001347	0.080725	0.000247	0.006891	0.003209	0.000946	0.009463
15-Jul-2026	15.634067	6.019240	8.639580	1.679140	21.944741	0.700216	0.010993	0.109440	0.032201	0.001554	0.001336	0.080217	0.000248	0.006868	0.003215	0.000946	0.009464
16-Jul-2026	15.329033	5.956160	8.551470	1.661060	21.712777	0.693291	0.010877	0.108288	0.031805	0.001538	0.001320	0.079323	0.000246	0.006792	0.003181	0.000936	0.009363
17-Jul-2026	16.112833	6.018170	8.657080	1.673500	21.918843	0.703442	0.010991	0.109419	0.031935	0.001557	0.001325	0.079736	0.000249	0.006843	0.003217	0.000946	0.009457
18-Jul-2026	17.093967	6.103700	8.801460	1.691420	22.206206	0.716953	0.011147	0.110977	0.032119	0.001583	0.001333	0.080344	0.000254	0.006914	0.003265	0.000959	0.009586
19-Jul-2026	16.855500	6.132190	8.853270	1.696580	22.298595	0.722055	0.011197	0.111483	0.032127	0.001592	0.001334	0.080449	0.000256	0.006932	0.003282	0.000963	0.009628
20-Jul-2026	17.087133	6.176670	8.933350	1.704750	22.443305	0.729878	0.011276	0.112270	0.032155	0.001606	0.001336	0.080628	0.000258	0.006962	0.003307	0.000969	0.009695
21-Jul-2026	18.127300	6.217550	9.005930	1.712420	22.576968	0.736922	0.011349	0.112998	0.032198	0.001618	0.001338	0.080818	0.000261	0.006991	0.003331	0.000976	0.009756
22-Jul-2026	18.638533	6.254920	9.070210	1.720290	22.702689	0.742979	0.011415	0.113659	0.032251	0.001629	0.001341	0.081049	0.000263	0.007019	0.003352	0.000981	0.009812
23-Jul-2026	18.870733	6.309240	9.162520	1.731720	22.885395	0.751665	0.011512	0.114631	0.032351	0.001646	0.001346	0.081416	0.000266	0.007062	0.003383	0.000989	0.009894
24-Jul-2026	18.813367	6.328360	9.200600	1.734120	22.943021	0.755683	0.011547	0.114972	0.032314	0.001653	0.001345	0.081410	0.000267	0.007071	0.003394	0.000992	0.009921
25-Jul-2026	19.733833	6.389990	9.302820	1.747360	23.151434	0.765174	0.011659	0.116086	0.032476	0.001671	0.001352	0.081883	0.000270	0.007125	0.003429	0.001001	0.010015
26-Jul-2026	18.583133	6.414650	9.364170	1.746540	23.209633	0.772440	0.011703	0.116528	0.032311	0.001681	0.001344	0.081544	0.000273	0.007123	0.003447	0.001005	0.010048
27-Jul-2026	16.871233	6.362000	9.309580	1.725620	22.992017	0.769885	0.011606	0.115567	0.031788	0.001670	0.001321	0.080307	0.000272	0.007039	0.003422	0.000996	0.009961
28-Jul-2026	17.758333	6.417880	9.407580	1.736140	23.174871	0.779392	0.011708	0.116573	0.031868	0.001688	0.001325	0.080606	0.000275	0.007081	0.003454	0.001004	0.010045
29-Jul-2026	17.718233	6.420580	9.429800	1.731600	23.162917	0.782792	0.011711	0.116611	0.031665	0.001691	0.001316	0.080175	0.000276	0.007063	0.003458	0.001005	0.010045
30-Jul-2026	17.606333	6.443010	9.484780	1.731320	23.217772	0.789204	0.011750	0.116999	0.031517	0.001700	0.001309	0.079884	0.000278	0.007061	0.003474	0.001008	0.010076
31-Jul-2026	18.212167	6.512700	9.601190	1.746600	23.454711	0.799977	0.011874	0.118226	0.031663	0.001721	0.001317	0.080405	0.000282	0.007119	0.003513	0.001018	0.010181
1-Aug-2026	17.080500	6.540180	9.646810	1.752940	23.549436	0.804132	0.011922	0.118698	0.031713	0.001729	0.001320	0.080619	0.000283	0.007141	0.003528	0.001022	0.010222
2-Aug-2026	16.081967	6.554690	9.680690	1.753690	23.588756	0.807944	0.011946	0.118930	0.031608	0.001735	0.001316	0.080491	0.000284	0.007140	0.003537	0.001024	0.010241
3-Aug-2026	14.388933	6.496210	9.609530	1.734070	23.361937	0.803204	0.011835	0.117826	0.031124	0.001722	0.001297	0.079397	0.000283	0.007056	0.003507	0.001015	0.010146
4-Aug-2026	15.529167	6.526030	9.667570	1.738340	23.453981	0.809141	0.011885	0.118323	0.031086	0.001732	0.001296	0.079414	0.000285	0.007071	0.003525	0.001019	0.010189

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Aug-2026	16.436667	6.687510	9.931530	1.774860	24.007586	0.833140	0.012172	0.121163	0.031531	0.001779	0.001316	0.080762	0.000293	0.007213	0.003615	0.001043	0.010435
6-Aug-2026	16.521533	6.750150	10.036700	1.788960	24.222062	0.842673	0.012276	0.122190	0.031655	0.001797	0.001322	0.081211	0.000296	0.007263	0.003650	0.001053	0.010530
7-Aug-2026	16.826633	6.795940	10.118000	1.797840	24.372967	0.850389	0.012351	0.122937	0.031706	0.001811	0.001325	0.081425	0.000299	0.007296	0.003676	0.001060	0.010599
8-Aug-2026	17.077367	6.972960	10.417200	1.835840	24.971470	0.877877	0.012650	0.125887	0.032079	0.001861	0.001342	0.082596	0.000309	0.007438	0.003775	0.001087	0.010868
9-Aug-2026	17.684767	7.027240	10.505300	1.849070	25.161489	0.885617	0.012738	0.126755	0.032195	0.001877	0.001350	0.083063	0.000311	0.007483	0.003805	0.001095	0.010950
10-Aug-2026	17.729533	7.099010	10.632900	1.862960	25.397897	0.897932	0.012861	0.127964	0.032302	0.001898	0.001354	0.083437	0.000315	0.007538	0.003846	0.001106	0.011058
11-Aug-2026	17.324533	7.134050	10.707100	1.865660	25.496511	0.905662	0.012912	0.128462	0.032173	0.001910	0.001349	0.083214	0.000318	0.007546	0.003868	0.001111	0.011107
12-Aug-2026	15.550667	7.039940	10.578900	1.838030	25.147738	0.895577	0.012729	0.126631	0.031570	0.001886	0.001325	0.081772	0.000315	0.007428	0.003818	0.001096	0.010958
13-Aug-2026	15.827067	7.024630	10.563200	1.832430	25.086448	0.894646	0.012693	0.126249	0.031386	0.001883	0.001319	0.081414	0.000314	0.007400	0.003810	0.001093	0.010931
14-Aug-2026	16.570267	7.121170	10.720200	1.855020	25.420534	0.908593	0.012854	0.127826	0.031634	0.001911	0.001331	0.082245	0.000319	0.007484	0.003864	0.001108	0.011077
15-Aug-2026	16.717167	7.205140	10.857500	1.874590	25.710796	0.920797	0.012992	0.129183	0.031844	0.001935	0.001342	0.082939	0.000323	0.007556	0.003910	0.001120	0.011205
16-Aug-2026	15.395200	7.236320	10.910500	1.882440	25.820979	0.925271	0.013031	0.129546	0.031856	0.001944	0.001345	0.083146	0.000325	0.007576	0.003926	0.001125	0.011251
17-Aug-2026	14.760433	7.260450	10.950200	1.888840	25.907587	0.928559	0.013061	0.129827	0.031871	0.001951	0.001348	0.083351	0.000326	0.007592	0.003938	0.001129	0.011286
18-Aug-2026	13.986200	7.265990	10.965200	1.889320	25.923397	0.930029	0.013058	0.129785	0.031778	0.001953	0.001346	0.083255	0.000327	0.007586	0.003941	0.001129	0.011292
19-Aug-2026	14.360333	7.307740	11.034100	1.899410	26.069197	0.936039	0.013121	0.130395	0.031848	0.001965	0.001351	0.083597	0.000329	0.007618	0.003964	0.001135	0.011355
20-Aug-2026	14.487367	7.346370	11.095800	1.909600	26.207619	0.941199	0.013178	0.130938	0.031919	0.001976	0.001357	0.083967	0.000331	0.007649	0.003984	0.001141	0.011412
21-Aug-2026	14.967433	7.393870	11.178900	1.919710	26.367859	0.948788	0.013247	0.131606	0.031946	0.001991	0.001360	0.084231	0.000334	0.007681	0.004010	0.001148	0.011483
22-Aug-2026	14.100767	7.387800	11.176200	1.916950	26.341337	0.948797	0.013226	0.131387	0.031824	0.001990	0.001356	0.083993	0.000334	0.007664	0.004007	0.001147	0.011472
23-Aug-2026	15.067733	7.491680	11.350500	1.940380	26.697210	0.964459	0.013390	0.132992	0.032008	0.002020	0.001367	0.084740	0.000339	0.007746	0.004065	0.001163	0.011628
24-Aug-2026	15.325867	7.539110	11.427800	1.952130	26.864029	0.971113	0.013462	0.133692	0.032101	0.002033	0.001374	0.085146	0.000342	0.007784	0.004090	0.001170	0.011699
25-Aug-2026	15.656600	7.493810	11.361200	1.939860	26.700387	0.965578	0.013379	0.132869	0.031885	0.002021	0.001364	0.084578	0.000340	0.007735	0.004066	0.001163	0.011628
26-Aug-2026	14.642800	7.494910	11.382800	1.934580	26.681391	0.968801	0.013369	0.132754	0.031656	0.002024	0.001355	0.084063	0.000341	0.007712	0.004069	0.001163	0.011626
27-Aug-2026	15.220900	7.531220	11.445500	1.942510	26.804713	0.974455	0.013422	0.133270	0.031689	0.002034	0.001358	0.084282	0.000343	0.007737	0.004089	0.001168	0.011680
28-Aug-2026	14.712267	7.529320	11.454400	1.939160	26.786173	0.975895	0.013407	0.133108	0.031526	0.002035	0.001352	0.083954	0.000343	0.007719	0.004089	0.001167	0.011674
29-Aug-2026	14.618533	7.640130	11.638400	1.964020	27.165239	0.992472	0.013590	0.134900	0.031781	0.002067	0.001364	0.084786	0.000349	0.007812	0.004151	0.001184	0.011842
30-Aug-2026	15.054167	7.720440	11.776300	1.980680	27.434379	1.005210	0.013720	0.136182	0.031919	0.002090	0.001371	0.085268	0.000354	0.007874	0.004196	0.001196	0.011964
31-Aug-2026	13.555800	7.683960	11.726800	1.970820	27.302685	1.001020	0.013639	0.135353	0.031647	0.002081	0.001362	0.084707	0.000352	0.007824	0.004176	0.001190	0.011904
1-Sep-2026	12.224733	7.664240	11.702100	1.965480	27.231454	0.998932	0.013588	0.134832	0.031452	0.002076	0.001356	0.084379	0.000352	0.007793	0.004165	0.001187	0.011871
2-Sep-2026	12.040033	7.704010	11.764500	1.976100	27.374493	1.004060	0.013645	0.135375	0.031535	0.002088	0.001363	0.084789	0.000354	0.007826	0.004185	0.001193	0.011930
3-Sep-2026	11.969533	7.715740	11.791200	1.976940	27.407242	1.006860	0.013658	0.135495	0.031473	0.002092	0.001360	0.084681	0.000355	0.007826	0.004193	0.001195	0.011946
4-Sep-2026	12.332500	7.796850	11.932700	1.992940	27.675661	1.020140	0.013792	0.136819	0.031607	0.002115	0.001366	0.085107	0.000359	0.007888	0.004239	0.001207	0.012069
5-Sep-2026	10.593333	7.835740	12.008300	1.998160	27.794266	1.027780	0.013853	0.137423	0.031584	0.002128	0.001365	0.085096	0.000362	0.007909	0.004263	0.001213	0.012127
6-Sep-2026	10.431967	7.832570	12.008800	1.996070	27.777744	1.028130	0.013841	0.137299	0.031493	0.002128	0.001362	0.084935	0.000362	0.007898	0.004262	0.001212	0.012120
7-Sep-2026	10.744700	7.838750	12.029200	1.994710	27.787575	1.030600	0.013845	0.137330	0.031387	0.002131	0.001357	0.084717	0.000363	0.007891	0.004266	0.001213	0.012127
8-Sep-2026	10.119833	7.802040	11.976200	1.984570	27.654153	1.026260	0.013776	0.136643	0.031192	0.002122	0.001349	0.084239	0.000361	0.007849	0.004247	0.001207	0.012070
9-Sep-2026	10.373367	7.841610	12.042700	1.993230	27.788621	1.032310	0.013841	0.137283	0.031270	0.002133	0.001353	0.084529	0.000363	0.007881	0.004269	0.001213	0.012129
10-Sep-2026	10.216167	7.818830	12.018000	1.984680	27.696531	1.030910	0.013795	0.136820	0.031050	0.002129	0.001344	0.084027	0.000363	0.007846	0.004258	0.001209	0.012091
11-Sep-2026	8.945337	7.795810	11.995600	1.974980	27.599105	1.030000	0.013749	0.136367	0.030815	0.002125	0.001334	0.083455	0.000362	0.007808	0.004248	0.001205	0.012053
12-Sep-2026	7.457887	7.737050	11.913100	1.957840	27.381799	1.023500	0.013642	0.135300	0.030480	0.002110	0.001319	0.082616	0.000360	0.007740	0.004217	0.001196	0.011960
13-Sep-2026	7.482107	7.776080	11.981500	1.965390	27.510348	1.029980	0.013707	0.135942	0.030535	0.002122	0.001322	0.082825	0.000362	0.007769	0.004239	0.001202	0.012019
14-Sep-2026	7.458623	7.811260	12.042800	1.972370	27.626936	1.035750	0.013765	0.136514	0.030584	0.002132	0.001324	0.083019	0.000364	0.007796	0.004259	0.001207	0.012071
15-Sep-2026	7.522957	7.901390	12.193800	1.991730	27.931715	1.049630	0.013918	0.138032	0.030792	0.002159	0.001333	0.083676	0.000369	0.007871	0.004310	0.001221	0.012208
16-Sep-2026	7.112000	7.913120	12.227300	1.989870	27.953345	1.053770	0.013937	0.138217	0.030678	0.002164	0.001328	0.083397	0.000370	0.007867	0.004319	0.001222	0.012223
17-Sep-2026	6.781227	7.932380	12.267300	1.991750	28.009179	1.057990	0.013968	0.138522	0.030638	0.002171	0.001326	0.083334	0.000372	0.007875	0.004332	0.001225	0.012251
18-Sep-2026	6.159790	7.973360	12.343300	1.998250	28.138273	1.065530	0.014036	0.139201	0.030654	0.002184	0.001326	0.083439	0.000374	0.007902	0.004356	0.001231	0.012312
19-Sep-2026	5.958657	7.982210	12.363900	1.998360	28.160825	1.067860	0.014050	0.139338	0.030612	0.002187	0.001324	0.083353	0.000375	0.007903	0.004362	0.001232	0.012324
20-Sep-2026	6.300277	7.976730	12.368400	1.993290	28.126263	1.069220	0.014036	0.139203	0.030446	0.002187	0.001317	0.082954	0.000376	0.007883	0.004361	0.001231	0.012314
21-Sep-2026	6.666767	8.022110	12.457700	1.998720	28.261938	1.078480	0.014113	0.139975	0.030423	0.002202	0.001314	0.082922	0.000379	0.007908	0.004389	0.001238	0.012381
22-Sep-2026	7.265467	8.079000	12.563100	2.007470	28.440024	1.089010	0.014212	0.140957	0.030467	0.002220	0.001315	0.083059	0.000382	0.007947	0.004424	0.001247	0.012466
23-Sep-2026	7.195190	8.131130	12.649700	2.018940	28.617427	1.096900	0.014300	0.141830	0.030591	0.002235	0.001321	0.083459	0.000385	0.007991	0.004453	0.001254	0.012545
24-Sep-2026	6.700433	8.196730	12.760300	2.032840	28.838470	1.107120	0.014412	0.142930	0.030732	0.002254	0.001327	0.083916	0.000389	0.008045	0.004490	0.001264	0.012644

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-Sep-2026	6.806487	8.260410	12.866700	2.046600	29.054143	1.116880	0.014520	0.144006	0.030882	0.002273	0.001333	0.084384	0.000392	0.008099	0.004526	0.001274	0.012740
26-Sep-2026	5.782043	8.240440	12.843700	2.039280	28.974134	1.115500	0.014483	0.143632	0.030715	0.002269	0.001326	0.083977	0.000391	0.008071	0.004516	0.001271	0.012708
27-Sep-2026	4.883977	8.200530	12.791700	2.026290	28.820986	1.111800	0.014410	0.142910	0.030451	0.002259	0.001314	0.083310	0.000390	0.008021	0.004496	0.001264	0.012644
28-Sep-2026	3.911010	8.183350	12.776600	2.018490	28.745967	1.111430	0.014377	0.142588	0.030272	0.002256	0.001306	0.082861	0.000390	0.007991	0.004489	0.001262	0.012615
29-Sep-2026	3.898373	8.252550	12.892300	2.033250	28.979541	1.122090	0.014497	0.143771	0.030428	0.002277	0.001313	0.083344	0.000393	0.008050	0.004528	0.001272	0.012720
30-Sep-2026	3.381117	8.282140	12.947900	2.038060	29.073235	1.127580	0.014544	0.144244	0.030426	0.002286	0.001313	0.083399	0.000395	0.008068	0.004546	0.001276	0.012764
1-Oct-2026	1.864597	8.151710	12.755100	2.002590	28.601485	1.111670	0.014313	0.141949	0.029825	0.002252	0.001286	0.081803	0.000390	0.007929	0.004476	0.001256	0.012560
2-Oct-2026	1.733053	8.177180	12.801500	2.006820	28.682503	1.116250	0.014356	0.142380	0.029845	0.002260	0.001287	0.081889	0.000391	0.007947	0.004491	0.001260	0.012598
3-Oct-2026	1.629660	8.267210	12.951000	2.026350	28.987733	1.129980	0.014512	0.143928	0.030078	0.002286	0.001297	0.082576	0.000396	0.008025	0.004542	0.001274	0.012735
4-Oct-2026	1.738050	8.215480	12.871500	2.013230	28.804535	1.123140	0.014421	0.143021	0.029871	0.002272	0.001288	0.082025	0.000394	0.007973	0.004514	0.001266	0.012655
5-Oct-2026	1.895550	8.156280	12.779800	1.998420	28.595725	1.115220	0.014317	0.141988	0.029644	0.002256	0.001278	0.081408	0.000391	0.007914	0.004482	0.001256	0.012564
6-Oct-2026	2.291093	8.209010	12.865400	2.010470	28.777013	1.122920	0.014408	0.142896	0.029801	0.002271	0.001285	0.081862	0.000393	0.007962	0.004511	0.001264	0.012644
7-Oct-2026	2.277413	8.177930	12.817700	2.002560	28.666833	1.118840	0.014353	0.142351	0.029675	0.002263	0.001279	0.081530	0.000392	0.007931	0.004494	0.001260	0.012596
8-Oct-2026	2.064603	8.110710	12.713200	1.985850	28.430173	1.109790	0.014235	0.141178	0.029421	0.002244	0.001268	0.080840	0.000389	0.007865	0.004457	0.001249	0.012492
9-Oct-2026	1.415427	8.035070	12.595800	1.966990	28.163635	1.099630	0.014102	0.139857	0.029132	0.002224	0.001256	0.080058	0.000385	0.007790	0.004416	0.001238	0.012375
10-Oct-2026	0.520824	8.054430	12.628100	1.971150	28.229107	1.102610	0.014135	0.140186	0.029177	0.002229	0.001258	0.080208	0.000386	0.007806	0.004427	0.001240	0.012405
11-Oct-2026	0.022872	8.050180	12.622300	1.969870	28.213224	1.102170	0.014127	0.140108	0.029150	0.002228	0.001257	0.080148	0.000386	0.007801	0.004425	0.001240	0.012398
12-Oct-2026	0.194835	7.916670	12.413100	1.937190	27.745273	1.083910	0.013893	0.137783	0.028665	0.002192	0.001236	0.078819	0.000380	0.007672	0.004351	0.001219	0.012192
13-Oct-2026	0.274757	7.893990	12.377500	1.931660	27.665869	1.080800	0.013853	0.137387	0.028582	0.002185	0.001232	0.078596	0.000379	0.007650	0.004339	0.001216	0.012157
14-Oct-2026	0.318121	7.895150	12.379300	1.931950	27.669960	1.080960	0.013855	0.137406	0.028586	0.002186	0.001233	0.078609	0.000379	0.007651	0.004340	0.001216	0.012159
15-Oct-2026	0.278968	7.901720	12.389600	1.933560	27.692995	1.081860	0.013866	0.137520	0.028609	0.002188	0.001234	0.078676	0.000379	0.007657	0.004343	0.001217	0.012169
16-Oct-2026	0.307302	7.898070	12.383900	1.932660	27.680175	1.081360	0.013860	0.137456	0.028595	0.002187	0.001233	0.078640	0.000379	0.007654	0.004341	0.001216	0.012163
17-Oct-2026	0.303487	8.016360	12.569400	1.961610	28.094761	1.097560	0.014067	0.139515	0.029023	0.002219	0.001251	0.079818	0.000385	0.007768	0.004406	0.001235	0.012345
18-Oct-2026	0.302325	8.041670	12.609100	1.967800	28.183450	1.101030	0.014112	0.139955	0.029114	0.002226	0.001255	0.080070	0.000386	0.007793	0.004420	0.001238	0.012384
19-Oct-2026	0.300209	8.058610	12.635700	1.971940	28.242798	1.103350	0.014141	0.140250	0.029176	0.002231	0.001258	0.080239	0.000387	0.007809	0.004429	0.001241	0.012410
20-Oct-2026	0.302371	8.082400	12.673000	1.977770	28.326210	1.106600	0.014183	0.140664	0.029262	0.002238	0.001262	0.080476	0.000388	0.007832	0.004442	0.001245	0.012447
21-Oct-2026	0.301629	8.107510	12.712300	1.983910	28.414194	1.110040	0.014227	0.141101	0.029353	0.002245	0.001266	0.080726	0.000389	0.007856	0.004456	0.001249	0.012486
22-Oct-2026	0.298463	8.152790	12.783300	1.994990	28.572885	1.116240	0.014307	0.141889	0.029516	0.002257	0.001273	0.081177	0.000391	0.007900	0.004481	0.001256	0.012556
23-Oct-2026	0.299046	8.202080	12.860600	2.007050	28.745626	1.122990	0.014393	0.142747	0.029695	0.002271	0.001280	0.081667	0.000393	0.007948	0.004508	0.001263	0.012631
24-Oct-2026	0.299390	8.241090	12.921800	2.016590	28.882319	1.128330	0.014462	0.143425	0.029836	0.002282	0.001286	0.082056	0.000395	0.007986	0.004530	0.001269	0.012691
25-Oct-2026	0.299403	8.285080	12.990800	2.027360	29.036513	1.134350	0.014539	0.144191	0.029995	0.002294	0.001293	0.082494	0.000397	0.008029	0.004554	0.001276	0.012759
26-Oct-2026	0.300322	8.348470	13.090100	2.042890	29.258751	1.143020	0.014650	0.145294	0.030226	0.002311	0.001303	0.083127	0.000400	0.008090	0.004589	0.001286	0.012857
27-Oct-2026	0.301522	8.391520	13.157500	2.053450	29.409733	1.148900	0.014726	0.146044	0.030383	0.002323	0.001310	0.083558	0.000403	0.008132	0.004612	0.001292	0.012923
28-Oct-2026	0.303165	8.439640	13.232700	2.065300	29.578686	1.155450	0.014810	0.146883	0.030561	0.002337	0.001318	0.084044	0.000405	0.008179	0.004639	0.001300	0.012997
29-Oct-2026	0.303830	8.486910	13.306700	2.076880	29.744406	1.161910	0.014893	0.147706	0.030733	0.002350	0.001325	0.084516	0.000407	0.008225	0.004665	0.001307	0.013070
30-Oct-2026	0.303044	8.517880	13.355400	2.084440	29.852870	1.166160	0.014947	0.148244	0.030844	0.002358	0.001330	0.084822	0.000409	0.008255	0.004682	0.001312	0.013118
31-Oct-2026	0.302642	8.565320	13.429800	2.096050	30.019138	1.172660	0.015031	0.149070	0.031015	0.002371	0.001337	0.085294	0.000411	0.008301	0.004708	0.001319	0.013191
1-Nov-2026	0.302366	8.619150	13.514200	2.109210	30.207744	1.180030	0.015125	0.150007	0.031210	0.002386	0.001346	0.085830	0.000413	0.008353	0.004737	0.001327	0.013274
2-Nov-2026	0.302479	8.658370	13.575700	2.118810	30.345209	1.185400	0.015194	0.150689	0.031352	0.002397	0.001352	0.086220	0.000415	0.008391	0.004759	0.001333	0.013334
3-Nov-2026	0.302294	8.688160	13.622400	2.126090	30.449574	1.189480	0.015246	0.151208	0.031459	0.002405	0.001356	0.086516	0.000417	0.008420	0.004775	0.001338	0.013380
4-Nov-2026	0.302356	8.733040	13.692800	2.137080	30.606896	1.195630	0.015325	0.151989	0.031622	0.002418	0.001363	0.086963	0.000419	0.008463	0.004800	0.001345	0.013449
5-Nov-2026	0.302470	8.769700	13.750300	2.146050	30.735375	1.200650	0.015389	0.152627	0.031755	0.002428	0.001369	0.087328	0.000421	0.008499	0.004820	0.001351	0.013506
6-Nov-2026	0.302803	8.815230	13.821700	2.157180	30.894897	1.206880	0.015469	0.153419	0.031919	0.002441	0.001376	0.087782	0.000423	0.008543	0.004845	0.001358	0.013576
7-Nov-2026	0.303340	8.864720	13.899300	2.169300	31.068383	1.213660	0.015556	0.154280	0.032098	0.002454	0.001384	0.088275	0.000425	0.008591	0.004872	0.001365	0.013652
8-Nov-2026	0.303907	8.911830	13.973200	2.180820	31.233456	1.220110	0.015639	0.155100	0.032269	0.002467	0.001391	0.088744	0.000428	0.008636	0.004898	0.001372	0.013725
9-Nov-2026	0.304453	8.960170	14.048900	2.192650	31.402877	1.226730	0.015723	0.155941	0.032444	0.002481	0.001399	0.089225	0.000430	0.008683	0.004925	0.001380	0.013799
10-Nov-2026	0.304870	9.009070	14.125600	2.204620	31.574273	1.233420	0.015809	0.156792	0.032621	0.002494	0.001407	0.089712	0.000432	0.008731	0.004952	0.001387	0.013874
11-Nov-2026	0.305142	9.058870	14.203700	2.216800	31.748781	1.240240	0.015897	0.157659	0.032801	0.002508	0.001414	0.090208	0.000435	0.008779	0.004979	0.001395	0.013951
12-Nov-2026	0.305315	9.112350	14.287600	2.229890	31.936225	1.247560	0.015991	0.158590	0.032995	0.002523	0.001423	0.090741	0.000437	0.008831	0.005009	0.001403	0.014033
13-Nov-2026	0.305474	9.170160	14.378200	2.244040	32.138846	1.255480	0.016092	0.159596	0.033204	0.002539	0.001432	0.091316	0.000440	0.008887	0.005040	0.001412	0.014122
14-Nov-2026	0.305534	9.225870	14.465500	2.257670	32.334082	1.263100	0.016190	0.160565	0.033406	0.002554	0.001440	0.091871	0.000443	0.008941	0.005071	0.001421	0.014208

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Nov-2026	0.305601	9.292530	14.570100	2.273980	32.567697	1.272230	0.016307	0.161725	0.033647	0.002573	0.001451	0.092535	0.000446	0.009005	0.005108	0.001431	0.014311
16-Nov-2026	0.305623	9.358210	14.673000	2.290050	32.797876	1.281220	0.016422	0.162868	0.033885	0.002591	0.001461	0.093189	0.000449	0.009069	0.005144	0.001441	0.014412
17-Nov-2026	0.305682	9.419020	14.768400	2.304940	33.011036	1.289550	0.016529	0.163927	0.034105	0.002608	0.001471	0.093795	0.000452	0.009128	0.005177	0.001451	0.014506
18-Nov-2026	0.305744	9.487380	14.875600	2.321670	33.250625	1.298900	0.016649	0.165117	0.034353	0.002627	0.001481	0.094476	0.000455	0.009194	0.005215	0.001461	0.014611
19-Nov-2026	0.305823	9.553600	14.979400	2.337880	33.482729	1.307970	0.016765	0.166269	0.034593	0.002645	0.001492	0.095136	0.000458	0.009258	0.005251	0.001471	0.014713
20-Nov-2026	0.305815	9.571570	15.007600	2.342270	33.545678	1.310430	0.016796	0.166582	0.034658	0.002650	0.001494	0.095314	0.000459	0.009276	0.005261	0.001474	0.014741
21-Nov-2026	0.305803	9.610080	15.067900	2.351690	33.680629	1.315700	0.016864	0.167252	0.034797	0.002661	0.001500	0.095697	0.000461	0.009313	0.005282	0.001480	0.014800
22-Nov-2026	0.305813	9.681480	15.179900	2.369170	33.930898	1.325480	0.016989	0.168495	0.035056	0.002680	0.001512	0.096409	0.000464	0.009382	0.005321	0.001491	0.014910
23-Nov-2026	0.305801	9.723990	15.246500	2.379570	34.079872	1.331300	0.017064	0.169234	0.035210	0.002692	0.001518	0.096832	0.000466	0.009423	0.005345	0.001498	0.014975
24-Nov-2026	0.305801	9.776460	15.328800	2.392410	34.263765	1.338480	0.017156	0.170148	0.035399	0.002707	0.001526	0.097354	0.000469	0.009474	0.005374	0.001506	0.015056
25-Nov-2026	0.305798	9.760170	15.303300	2.388420	34.206658	1.336250	0.017127	0.169864	0.035340	0.002702	0.001524	0.097192	0.000468	0.009458	0.005365	0.001503	0.015031
26-Nov-2026	0.305794	9.814110	15.387900	2.401620	34.395704	1.343640	0.017222	0.170803	0.035536	0.002717	0.001532	0.097729	0.000471	0.009511	0.005394	0.001511	0.015114
27-Nov-2026	0.305792	9.865190	15.467900	2.414120	34.574726	1.350630	0.017312	0.171692	0.035721	0.002731	0.001540	0.098238	0.000473	0.009560	0.005422	0.001519	0.015193
28-Nov-2026	0.305791	9.918290	15.551200	2.427120	34.760850	1.357900	0.017405	0.172616	0.035913	0.002746	0.001548	0.098767	0.000476	0.009612	0.005451	0.001527	0.015275
29-Nov-2026	0.305788	9.980680	15.649000	2.442380	34.979479	1.366440	0.017514	0.173702	0.036139	0.002763	0.001558	0.099388	0.000479	0.009672	0.005486	0.001537	0.015371
30-Nov-2026	0.305786	10.038600	15.739800	2.456550	35.182457	1.374370	0.017616	0.174710	0.036349	0.002779	0.001567	0.099965	0.000482	0.009728	0.005518	0.001546	0.015460
1-Dec-2026	0.305789	10.079200	15.803500	2.466490	35.324768	1.379930	0.017687	0.175417	0.036496	0.002791	0.001574	0.100369	0.000484	0.009768	0.005540	0.001552	0.015522
2-Dec-2026	0.305789	10.143300	15.904000	2.482170	35.549396	1.388710	0.017800	0.176532	0.036728	0.002808	0.001584	0.101007	0.000487	0.009830	0.005575	0.001562	0.015621
3-Dec-2026	0.305788	10.193100	15.982000	2.494350	35.723904	1.395520	0.017887	0.177398	0.036908	0.002822	0.001591	0.101503	0.000489	0.009878	0.005603	0.001570	0.015698
4-Dec-2026	0.305790	10.237300	16.051400	2.505190	35.878911	1.401580	0.017965	0.178169	0.037068	0.002834	0.001598	0.101944	0.000491	0.009921	0.005627	0.001577	0.015766
5-Dec-2026	0.305793	10.299000	16.148100	2.520280	36.095116	1.410020	0.018073	0.179242	0.037291	0.002851	0.001608	0.102558	0.000494	0.009981	0.005661	0.001586	0.015861
6-Dec-2026	0.305792	10.340600	16.213300	2.530460	36.240912	1.415720	0.018146	0.179966	0.037442	0.002863	0.001614	0.102972	0.000496	0.010021	0.005684	0.001592	0.015925
7-Dec-2026	0.305793	10.388100	16.287800	2.542070	36.407330	1.422220	0.018229	0.180792	0.037614	0.002876	0.001622	0.103445	0.000498	0.010067	0.005710	0.001600	0.015998
8-Dec-2026	0.305793	10.449200	16.383700	2.557050	36.621584	1.430590	0.018337	0.181857	0.037836	0.002893	0.001631	0.104054	0.000501	0.010126	0.005743	0.001609	0.016092
9-Dec-2026	0.305794	10.495400	16.456100	2.568340	36.783438	1.436910	0.018417	0.182660	0.038003	0.002906	0.001639	0.104513	0.000503	0.010171	0.005769	0.001616	0.016163
10-Dec-2026	0.305794	10.554100	16.548100	2.582710	36.989187	1.444950	0.018521	0.183682	0.038215	0.002922	0.001648	0.105098	0.000506	0.010228	0.005801	0.001625	0.016254
11-Dec-2026	0.305794	10.607600	16.632000	2.595800	37.176682	1.452280	0.018614	0.184613	0.038409	0.002937	0.001656	0.105631	0.000509	0.010280	0.005830	0.001634	0.016336
12-Dec-2026	0.305795	10.662300	16.717800	2.609180	37.368366	1.459760	0.018710	0.185565	0.038607	0.002952	0.001665	0.106175	0.000511	0.010333	0.005860	0.001642	0.016420
13-Dec-2026	0.305795	10.721100	16.809900	2.623570	37.574448	1.467810	0.018814	0.186588	0.038820	0.002968	0.001674	0.106761	0.000514	0.010390	0.005893	0.001651	0.016511
14-Dec-2026	0.305795	10.778000	16.899200	2.637490	37.773850	1.475600	0.018913	0.187578	0.039026	0.002984	0.001683	0.107327	0.000517	0.010445	0.005924	0.001660	0.016598
15-Dec-2026	0.305795	10.848300	17.009400	2.654690	38.020219	1.485230	0.019037	0.188801	0.039280	0.003003	0.001694	0.108027	0.000520	0.010513	0.005963	0.001671	0.016707
16-Dec-2026	0.305795	10.888700	17.072700	2.664580	38.161824	1.490760	0.019108	0.189504	0.039427	0.003015	0.001700	0.108430	0.000522	0.010552	0.005985	0.001677	0.016769
17-Dec-2026	0.305795	10.941900	17.156100	2.677600	38.348281	1.498040	0.019201	0.190430	0.039619	0.003029	0.001708	0.108959	0.000525	0.010604	0.006014	0.001685	0.016851
18-Dec-2026	0.305795	11.012000	17.266100	2.694760	38.593986	1.507640	0.019324	0.191651	0.039873	0.003049	0.001719	0.109658	0.000528	0.010672	0.006053	0.001696	0.016959
19-Dec-2026	0.305795	11.065400	17.349700	2.707810	38.781065	1.514950	0.019418	0.192579	0.040066	0.003064	0.001728	0.110189	0.000531	0.010723	0.006082	0.001704	0.017041
20-Dec-2026	0.305795	11.114600	17.427000	2.719870	38.953581	1.521690	0.019504	0.193437	0.040245	0.003077	0.001735	0.110680	0.000533	0.010771	0.006109	0.001712	0.017117
21-Dec-2026	0.305795	11.167000	17.509100	2.732690	39.137216	1.528860	0.019596	0.194348	0.040434	0.003092	0.001743	0.111201	0.000536	0.010822	0.006138	0.001720	0.017198
22-Dec-2026	0.305795	11.232100	17.611200	2.748630	39.365412	1.537780	0.019710	0.195482	0.040670	0.003110	0.001754	0.111850	0.000539	0.010885	0.006174	0.001730	0.017298
23-Dec-2026	0.305795	11.306100	17.727300	2.766740	39.624767	1.547910	0.019840	0.196770	0.040938	0.003130	0.001765	0.112587	0.000542	0.010957	0.006214	0.001741	0.017412
24-Dec-2026	0.305795	11.340000	17.780300	2.775020	39.743512	1.552540	0.019900	0.197359	0.041061	0.003140	0.001770	0.112924	0.000544	0.010989	0.006233	0.001746	0.017464
25-Dec-2026	0.305795	11.396500	17.868900	2.788840	39.941504	1.560280	0.019999	0.198342	0.041265	0.003155	0.001779	0.113486	0.000547	0.011044	0.006264	0.001755	0.017551
26-Dec-2026	0.305795	11.466400	17.978600	2.805960	40.186544	1.569850	0.020121	0.199559	0.041519	0.003175	0.001790	0.114183	0.000550	0.011112	0.006302	0.001766	0.017659
27-Dec-2026	0.305795	11.541700	18.096700	2.824390	40.450463	1.580170	0.020254	0.200870	0.041791	0.003195	0.001802	0.114933	0.000554	0.011185	0.006344	0.001777	0.017775
28-Dec-2026	0.305795	11.587200	18.168000	2.835520	40.609910	1.586400	0.020333	0.201662	0.041956	0.003208	0.001809	0.115386	0.000556	0.011229	0.006369	0.001784	0.017845
29-Dec-2026	0.305795	11.642400	18.254500	2.849030	40.803378	1.593950	0.020430	0.202622	0.042156	0.003223	0.001818	0.115935	0.000558	0.011283	0.006399	0.001793	0.017930
30-Dec-2026	0.305795	11.722700	18.380400	2.868670	41.084765	1.604940	0.020571	0.204020	0.042446	0.003246	0.001830	0.116735	0.000562	0.011360	0.006443	0.001805	0.018053
31-Dec-2026	0.305795	11.817500	18.529000	2.891870	41.417018	1.617920	0.020738	0.205669	0.042790	0.003272	0.001845	0.117679	0.000567	0.011452	0.006495	0.001820	0.018199
1-Jan-2027	0.305795	11.833100	18.553500	2.895690	41.471702	1.620060	0.020765	0.205941	0.042846	0.003276	0.001847	0.117834	0.000568	0.011467	0.006504	0.001822	0.018223
2-Jan-2027	0.305795	11.898900	18.656600	2.911780	41.702263	1.629060	0.020880	0.207086	0.043084	0.003294	0.001858	0.118489	0.000571	0.011531	0.006540	0.001832	0.018325
3-Jan-2027	0.305795	11.992100	18.802800	2.934600	42.028957	1.641820	0.021044	0.208708	0.043422	0.003320	0.001872	0.119418	0.000575	0.011621	0.006591	0.001847	0.018468
4-Jan-2027	0.305796	12.036900	18.873100	2.945570	42.185997	1.647960	0.021123	0.209488	0.043584	0.003333	0.001879	0.119864	0.000577	0.011665	0.006616	0.001854	0.018537

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Jan-2027	0.305796	12.091500	18.958600	2.958910	42.377267	1.655430	0.021218	0.210438	0.043782	0.003348	0.001888	0.120407	0.000580	0.011718	0.006646	0.001862	0.018621
6-Jan-2027	0.305796	12.158800	19.064100	2.975380	42.613138	1.664640	0.021336	0.211609	0.044025	0.003366	0.001898	0.121077	0.000583	0.011783	0.006683	0.001872	0.018725
7-Jan-2027	0.305796	12.245700	19.200400	2.996650	42.917718	1.676540	0.021489	0.213121	0.044340	0.003390	0.001912	0.121942	0.000587	0.011867	0.006731	0.001886	0.018859
8-Jan-2027	0.305796	12.271600	19.241000	3.002990	43.008498	1.680090	0.021534	0.213572	0.044434	0.003398	0.001916	0.122201	0.000589	0.011892	0.006745	0.001890	0.018899
9-Jan-2027	0.305796	12.336200	19.342300	3.018800	43.234910	1.688930	0.021648	0.214697	0.044668	0.003415	0.001926	0.122844	0.000592	0.011955	0.006780	0.001900	0.018998
10-Jan-2027	0.305796	12.421800	19.476500	3.039740	43.534884	1.700650	0.021798	0.216186	0.044978	0.003439	0.001939	0.123696	0.000596	0.012038	0.006827	0.001913	0.019130
11-Jan-2027	0.305796	12.486700	19.578300	3.055640	43.762415	1.709540	0.021912	0.217316	0.045213	0.003457	0.001949	0.124343	0.000599	0.012101	0.006863	0.001923	0.019230
12-Jan-2027	0.305796	12.552700	19.681800	3.071780	43.993682	1.718580	0.022028	0.218465	0.045452	0.003475	0.001960	0.125000	0.000602	0.012165	0.006899	0.001933	0.019332
13-Jan-2027	0.305796	12.609200	19.770400	3.085620	44.191756	1.726320	0.022127	0.219449	0.045657	0.003491	0.001969	0.125563	0.000605	0.012219	0.006931	0.001942	0.019419
14-Jan-2027	0.305796	12.676100	19.875300	3.101990	44.426217	1.735470	0.022244	0.220613	0.045899	0.003510	0.001979	0.126229	0.000608	0.012284	0.006967	0.001952	0.019522
15-Jan-2027	0.305796	12.744800	19.982900	3.118780	44.666902	1.744870	0.022365	0.221808	0.046147	0.003529	0.001990	0.126913	0.000611	0.012351	0.007005	0.001963	0.019627
16-Jan-2027	0.305796	12.807700	20.081600	3.134180	44.887380	1.753490	0.022475	0.222903	0.046375	0.003546	0.002000	0.127539	0.000614	0.012412	0.007040	0.001972	0.019724
17-Jan-2027	0.305796	12.868300	20.176600	3.149020	45.099809	1.761790	0.022582	0.223958	0.046595	0.003563	0.002009	0.128143	0.000617	0.012471	0.007073	0.001982	0.019818
18-Jan-2027	0.305796	12.934500	20.280400	3.165210	45.331781	1.770840	0.022698	0.225109	0.046834	0.003581	0.002019	0.128802	0.000620	0.012535	0.007109	0.001992	0.019919
19-Jan-2027	0.305796	13.002300	20.386700	3.181800	45.569396	1.780130	0.022817	0.226289	0.047080	0.003600	0.002030	0.129477	0.000624	0.012600	0.007147	0.002002	0.020024
20-Jan-2027	0.305796	13.069900	20.492700	3.198340	45.806304	1.789380	0.022935	0.227465	0.047324	0.003619	0.002041	0.130150	0.000627	0.012666	0.007184	0.002013	0.020128
21-Jan-2027	0.305796	13.136700	20.597400	3.214680	46.040392	1.798520	0.023052	0.228628	0.047566	0.003637	0.002051	0.130815	0.000630	0.012731	0.007220	0.002023	0.020231
22-Jan-2027	0.305796	13.204600	20.703900	3.231300	46.278380	1.807820	0.023172	0.229810	0.047812	0.003656	0.002062	0.131491	0.000633	0.012796	0.007258	0.002034	0.020335
23-Jan-2027	0.305796	13.273000	20.811100	3.248040	46.518110	1.817190	0.023292	0.231000	0.048060	0.003675	0.002072	0.132172	0.000637	0.012863	0.007295	0.002044	0.020441
24-Jan-2027	0.305796	13.342100	20.919500	3.264960	46.760329	1.826650	0.023413	0.232203	0.048310	0.003694	0.002083	0.132861	0.000640	0.012930	0.007333	0.002055	0.020547
25-Jan-2027	0.305796	13.412200	21.029400	3.282120	47.006034	1.836250	0.023536	0.233424	0.048564	0.003713	0.002094	0.133559	0.000643	0.012998	0.007372	0.002066	0.020655
26-Jan-2027	0.305796	13.486300	21.145700	3.300260	47.265762	1.846400	0.023666	0.234714	0.048832	0.003734	0.002106	0.134297	0.000647	0.013069	0.007413	0.002077	0.020769
27-Jan-2027	0.305796	13.527700	21.210600	3.310390	47.410853	1.852070	0.023739	0.235434	0.048982	0.003745	0.002112	0.134710	0.000649	0.013110	0.007435	0.002083	0.020833
28-Jan-2027	0.305796	13.580500	21.293300	3.323300	47.595858	1.859290	0.023831	0.236352	0.049173	0.003760	0.002120	0.135235	0.000651	0.013161	0.007464	0.002091	0.020914
29-Jan-2027	0.305796	13.654900	21.409900	3.341500	47.856582	1.869470	0.023962	0.237647	0.049443	0.003780	0.002132	0.135975	0.000655	0.013233	0.007505	0.002103	0.021029
30-Jan-2027	0.305796	13.725500	21.520700	3.358790	48.104071	1.879150	0.024086	0.238877	0.049699	0.003800	0.002143	0.136679	0.000658	0.013301	0.007544	0.002114	0.021138
31-Jan-2027	0.305796	13.819500	21.668000	3.381770	48.433420	1.892010	0.024251	0.240511	0.050039	0.003826	0.002158	0.137614	0.000663	0.013392	0.007596	0.002128	0.021282
1-Feb-2027	0.305796	13.919100	21.824300	3.406170	48.782601	1.905650	0.024426	0.242246	0.050400	0.003854	0.002173	0.138607	0.000668	0.013489	0.007651	0.002144	0.021436
2-Feb-2027	0.305796	14.017300	21.978200	3.430200	49.126762	1.919100	0.024598	0.243955	0.050755	0.003881	0.002188	0.139585	0.000672	0.013584	0.007704	0.002159	0.021587
3-Feb-2027	0.305796	14.113200	22.128600	3.453660	49.462832	1.932230	0.024766	0.245624	0.051102	0.003907	0.002203	0.140540	0.000677	0.013677	0.007757	0.002173	0.021735
4-Feb-2027	0.305796	14.206200	22.274300	3.476400	49.788697	1.944950	0.024929	0.247241	0.051439	0.003933	0.002218	0.141465	0.000681	0.013767	0.007808	0.002188	0.021878
5-Feb-2027	0.305796	14.296300	22.415600	3.498450	50.104478	1.957280	0.025087	0.248809	0.051765	0.003958	0.002232	0.142362	0.000686	0.013854	0.007858	0.002202	0.022017
6-Feb-2027	0.305796	14.390800	22.563800	3.521590	50.435735	1.970230	0.025253	0.250455	0.052107	0.003984	0.002247	0.143304	0.000690	0.013946	0.007910	0.002216	0.022162
7-Feb-2027	0.305796	14.501400	22.737300	3.548660	50.823378	1.985370	0.025447	0.252380	0.052508	0.004015	0.002264	0.144406	0.000696	0.014053	0.007971	0.002233	0.022333
8-Feb-2027	0.305796	14.372900	22.535700	3.517210	50.373002	1.967780	0.025222	0.250143	0.052043	0.003979	0.002244	0.143126	0.000689	0.013929	0.007900	0.002213	0.022135
9-Feb-2027	0.305796	14.449300	22.655600	3.535910	50.640779	1.978240	0.025356	0.251474	0.052319	0.004000	0.002256	0.143887	0.000693	0.014003	0.007942	0.002225	0.022252
10-Feb-2027	0.305796	14.526800	22.777000	3.554870	50.912374	1.988850	0.025492	0.252822	0.052600	0.004022	0.002268	0.144658	0.000697	0.014078	0.007984	0.002237	0.022372
11-Feb-2027	0.305796	14.605600	22.900500	3.574140	51.188492	1.999630	0.025630	0.254192	0.052885	0.004044	0.002280	0.145442	0.000701	0.014154	0.008028	0.002249	0.022493
12-Feb-2027	0.305796	14.684900	23.024900	3.593560	51.466475	2.010490	0.025769	0.255573	0.053172	0.004066	0.002293	0.146233	0.000704	0.014231	0.008071	0.002262	0.022615
13-Feb-2027	0.305796	14.763100	23.147500	3.612680	51.740477	2.021190	0.025906	0.256933	0.053455	0.004087	0.002305	0.147011	0.000708	0.014307	0.008114	0.002274	0.022736
14-Feb-2027	0.305796	14.842500	23.272000	3.632120	52.018793	2.032070	0.026046	0.258316	0.053743	0.004109	0.002317	0.147802	0.000712	0.014384	0.008158	0.002286	0.022858
15-Feb-2027	0.305796	14.922500	23.397500	3.651710	52.299224	2.043030	0.026186	0.259709	0.054033	0.004131	0.002330	0.148599	0.000716	0.014461	0.008202	0.002298	0.022981
16-Feb-2027	0.305796	14.999600	23.518400	3.670570	52.569408	2.053580	0.026322	0.261051	0.054312	0.004153	0.002342	0.149367	0.000720	0.014536	0.008244	0.002310	0.023100
17-Feb-2027	0.305796	15.078300	23.641700	3.689820	52.845194	2.064350	0.026460	0.262419	0.054597	0.004175	0.002354	0.150150	0.000723	0.014612	0.008288	0.002322	0.023221
18-Feb-2027	0.305796	15.160200	23.770100	3.709860	53.132223	2.075560	0.026603	0.263845	0.054893	0.004197	0.002367	0.150965	0.000727	0.014692	0.008333	0.002335	0.023347
19-Feb-2027	0.305796	15.226500	23.874100	3.726100	53.364650	2.084650	0.026720	0.264999	0.055133	0.004216	0.002377	0.151626	0.000730	0.014756	0.008369	0.002345	0.023449
20-Feb-2027	0.305796	15.308700	24.003000	3.746200	53.652676	2.095890	0.026864	0.266429	0.055431	0.004238	0.002390	0.152444	0.000734	0.014835	0.008414	0.002358	0.023576
21-Feb-2027	0.305796	15.556700	24.391800	3.806890	54.521853	2.129850	0.027299	0.270746	0.056329	0.004307	0.002429	0.154914	0.000746	0.015076	0.008551	0.002396	0.023958
22-Feb-2027	0.305796	15.856300	24.861500	3.880200	55.571845	2.170860	0.027825	0.275959	0.057414	0.004390	0.002476	0.157897	0.000761	0.015366	0.008715	0.002442	0.024419
23-Feb-2027	0.305796	16.146600	25.316800	3.951260	56.589349	2.210620	0.028334	0.281013	0.058465	0.004470	0.002521	0.160789	0.000775	0.015647	0.008875	0.002487	0.024866
24-Feb-2027	0.305796	16.464500	25.815200	4.029050	57.703484	2.254140	0.028892	0.286545	0.059616	0.004558	0.002570	0.163954	0.000790	0.015956	0.009050	0.002536	0.025356

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-Feb-2027	0.305796	16.802800	26.345600	4.111820	58.889066	2.300450	0.029486	0.292432	0.060841	0.004652	0.002623	0.167322	0.000806	0.016283	0.009235	0.002588	0.025877
26-Feb-2027	0.305796	17.155000	26.897800	4.198010	60.123440	2.348670	0.030104	0.298562	0.062116	0.004750	0.002678	0.170829	0.000823	0.016625	0.009429	0.002642	0.026419
27-Feb-2027	0.305796	17.478500	27.405100	4.277190	61.257283	2.392960	0.030672	0.304193	0.063288	0.004839	0.002729	0.174051	0.000838	0.016938	0.009607	0.002692	0.026917
28-Feb-2027	0.305796	17.691200	27.738700	4.329240	62.002737	2.422090	0.031045	0.307895	0.064058	0.004898	0.002762	0.176170	0.000849	0.017144	0.009724	0.002725	0.027245
1-Mar-2027	0.305796	17.828900	27.954400	4.362920	62.485268	2.440930	0.031286	0.310290	0.064556	0.004936	0.002783	0.177540	0.000855	0.017278	0.009799	0.002746	0.027457
2-Mar-2027	0.305796	15.617200	24.486700	3.821690	54.733868	2.138130	0.027405	0.271798	0.056548	0.004324	0.002438	0.155516	0.000749	0.015134	0.008584	0.002405	0.024051
3-Mar-2027	0.305796	15.676900	24.580300	3.836300	54.943103	2.146300	0.027510	0.272837	0.056764	0.004340	0.002448	0.156111	0.000752	0.015192	0.008617	0.002414	0.024143
4-Mar-2027	0.305796	15.745100	24.687200	3.853000	55.182169	2.155640	0.027630	0.274025	0.057011	0.004359	0.002458	0.156790	0.000755	0.015258	0.008654	0.002425	0.024248
5-Mar-2027	0.305796	15.820500	24.805500	3.871460	55.446461	2.165970	0.027762	0.275338	0.057284	0.004380	0.002470	0.157541	0.000759	0.015331	0.008696	0.002436	0.024364
6-Mar-2027	0.305796	15.902400	24.933900	3.891490	55.733449	2.177180	0.027906	0.276762	0.057581	0.004403	0.002483	0.158356	0.000763	0.015411	0.008741	0.002449	0.024490
7-Mar-2027	0.305796	15.989800	25.070900	3.912870	56.039729	2.189140	0.028059	0.278283	0.057897	0.004427	0.002496	0.159226	0.000767	0.015495	0.008789	0.002462	0.024625
8-Mar-2027	0.305796	16.082100	25.215700	3.935480	56.363310	2.201790	0.028221	0.279890	0.058232	0.004453	0.002511	0.160146	0.000771	0.015585	0.008839	0.002477	0.024767
9-Mar-2027	0.305796	16.179500	25.368300	3.959290	56.704568	2.215110	0.028392	0.281584	0.058584	0.004479	0.002526	0.161115	0.000776	0.015679	0.008893	0.002492	0.024917
10-Mar-2027	0.305796	16.282200	25.529400	3.984440	57.064577	2.229180	0.028572	0.283373	0.058956	0.004508	0.002542	0.162139	0.000781	0.015779	0.008949	0.002508	0.025075
11-Mar-2027	0.305796	16.390300	25.698800	4.010880	57.443383	2.243970	0.028762	0.285253	0.059347	0.004538	0.002559	0.163214	0.000786	0.015884	0.009009	0.002524	0.025241
12-Mar-2027	0.305796	16.501400	25.873000	4.038070	57.832768	2.259190	0.028957	0.287187	0.059750	0.004569	0.002576	0.164321	0.000792	0.015991	0.009070	0.002541	0.025413
13-Mar-2027	0.305796	16.612800	26.047800	4.065340	58.223232	2.274440	0.029152	0.289127	0.060153	0.004599	0.002594	0.165431	0.000797	0.016099	0.009131	0.002558	0.025584
14-Mar-2027	0.305796	16.724100	26.222200	4.092560	58.613240	2.289670	0.029348	0.291063	0.060556	0.004630	0.002611	0.166539	0.000802	0.016207	0.009192	0.002576	0.025756
15-Mar-2027	0.305796	16.904900	26.505700	4.136800	59.246878	2.314420	0.029665	0.294209	0.061210	0.004680	0.002639	0.168339	0.000811	0.016382	0.009292	0.002603	0.026034
16-Mar-2027	0.305796	17.078800	26.778300	4.179360	59.856368	2.338230	0.029970	0.297235	0.061840	0.004728	0.002666	0.170071	0.000819	0.016551	0.009387	0.002630	0.026302
17-Mar-2027	0.305796	17.261200	27.064300	4.224000	60.495648	2.363210	0.030290	0.300410	0.062501	0.004779	0.002695	0.171887	0.000828	0.016728	0.009487	0.002658	0.026583
18-Mar-2027	0.305796	17.452200	27.363900	4.270750	61.165092	2.389360	0.030625	0.303735	0.063192	0.004832	0.002725	0.173789	0.000837	0.016913	0.009592	0.002688	0.026877
19-Mar-2027	0.305796	17.649800	27.673700	4.319100	61.857604	2.416410	0.030972	0.307173	0.063908	0.004887	0.002756	0.175757	0.000847	0.017104	0.009701	0.002718	0.027181
20-Mar-2027	0.305796	17.852900	27.992100	4.368800	62.569410	2.444220	0.031329	0.310708	0.064643	0.004943	0.002787	0.177779	0.000856	0.017301	0.009813	0.002749	0.027494
21-Mar-2027	0.305796	17.969300	28.174600	4.397280	62.977341	2.460160	0.031533	0.312734	0.065065	0.004975	0.002805	0.178939	0.000862	0.017414	0.009877	0.002767	0.027673
22-Mar-2027	0.305796	18.166600	28.484000	4.445570	63.668857	2.487170	0.031879	0.316168	0.065779	0.005030	0.002836	0.180903	0.000871	0.017605	0.009985	0.002798	0.027977
23-Mar-2027	0.305796	18.367600	28.799100	4.494750	64.373278	2.514680	0.032232	0.319666	0.066507	0.005085	0.002868	0.182905	0.000881	0.017800	0.010096	0.002829	0.028287
24-Mar-2027	0.305796	18.572700	29.120700	4.544940	65.092095	2.542770	0.032592	0.323236	0.067250	0.005142	0.002900	0.184947	0.000891	0.017999	0.010208	0.002860	0.028603
25-Mar-2027	0.305796	18.782900	29.450300	4.596380	65.828794	2.571540	0.032961	0.326894	0.068011	0.005200	0.002932	0.187040	0.000901	0.018202	0.010324	0.002893	0.028926
26-Mar-2027	0.305796	18.997800	29.787200	4.648960	66.581924	2.600960	0.033338	0.330633	0.068789	0.005260	0.002966	0.189180	0.000911	0.018410	0.010442	0.002926	0.029257
27-Mar-2027	0.305796	19.218500	30.133200	4.702970	67.355425	2.631180	0.033725	0.334474	0.069588	0.005321	0.003000	0.191378	0.000922	0.018624	0.010563	0.002960	0.029597
28-Mar-2027	0.305796	19.445200	30.488700	4.758450	68.149962	2.662220	0.034123	0.338420	0.070409	0.005384	0.003036	0.193636	0.000933	0.018844	0.010688	0.002995	0.029946
29-Mar-2027	0.305796	19.676600	30.851600	4.815090	68.961011	2.693910	0.034529	0.342448	0.071247	0.005448	0.003072	0.195940	0.000944	0.019068	0.010815	0.003030	0.030303
30-Mar-2027	0.305796	19.918200	31.230400	4.874200	69.807701	2.726980	0.034953	0.346653	0.072121	0.005515	0.003110	0.198346	0.000955	0.019302	0.010948	0.003067	0.030675
31-Mar-2027	0.305796	20.169500	31.624400	4.935690	70.688413	2.761380	0.035394	0.351026	0.073031	0.005584	0.003149	0.200848	0.000968	0.019546	0.011086	0.003106	0.031062
1-Apr-2027	0.305796	20.428900	32.031100	4.999170	71.597545	2.796890	0.035849	0.355540	0.073971	0.005656	0.003189	0.203431	0.000980	0.019797	0.011229	0.003146	0.031461
2-Apr-2027	0.305796	20.691000	32.442100	5.063320	72.516179	2.832780	0.036309	0.360103	0.074920	0.005729	0.003230	0.206042	0.000993	0.020051	0.011373	0.003186	0.031865
3-Apr-2027	0.305796	20.852800	32.695800	5.102910	73.083225	2.854940	0.036593	0.362918	0.075506	0.005773	0.003256	0.207653	0.001000	0.020208	0.011462	0.003211	0.032114
4-Apr-2027	0.305796	20.915000	32.793300	5.118120	73.301173	2.863450	0.036702	0.364000	0.075731	0.005791	0.003265	0.208272	0.001003	0.020268	0.011496	0.003221	0.032210
5-Apr-2027	0.305796	20.948900	32.846500	5.126430	73.420042	2.868090	0.036761	0.364591	0.075854	0.005800	0.003271	0.208610	0.001005	0.020301	0.011514	0.003226	0.032262
6-Apr-2027	0.305796	20.972900	32.884100	5.132300	73.504143	2.871380	0.036804	0.365009	0.075940	0.005807	0.003274	0.208849	0.001006	0.020325	0.011528	0.003230	0.032299
7-Apr-2027	0.305796	20.991700	32.913500	5.136900	73.570029	2.873950	0.036837	0.365335	0.076008	0.005812	0.003277	0.209036	0.001007	0.020343	0.011538	0.003233	0.032328
8-Apr-2027	0.305796	21.006900	32.937300	5.140610	73.623261	2.876030	0.036863	0.365600	0.076063	0.005816	0.003280	0.209187	0.001008	0.020357	0.011546	0.003235	0.032351
9-Apr-2027	0.305796	21.019100	32.956500	5.143600	73.666038	2.877700	0.036885	0.365812	0.076108	0.005819	0.003282	0.209309	0.001008	0.020369	0.011553	0.003237	0.032370
10-Apr-2027	0.305796	21.028800	32.971700	5.145980	73.700059	2.879030	0.036902	0.365981	0.076143	0.005822	0.003283	0.209405	0.001009	0.020379	0.011558	0.003238	0.032385
11-Apr-2027	0.305796	21.036400	32.983700	5.147850	73.726737	2.880070	0.036915	0.366114	0.076170	0.005824	0.003284	0.209481	0.001009	0.020386	0.011562	0.003240	0.032397
12-Apr-2027	0.305796	21.042200	32.992700	5.149260	73.747026	2.880860	0.036925	0.366215	0.076191	0.005826	0.003285	0.209539	0.001009	0.020392	0.011566	0.003241	0.032406
13-Apr-2027	0.305796	21.046300	32.999100	5.150250	73.761341	2.881420	0.036932	0.366285	0.076206	0.005827	0.003286	0.209579	0.001010	0.020396	0.011568	0.003241	0.032412
14-Apr-2027	0.305796	21.048700	33.002900	5.150850	73.769804	2.881750	0.036937	0.366327	0.076215	0.005828	0.003286	0.209603	0.001010	0.020398	0.011569	0.003242	0.032416
15-Apr-2027	0.305796	21.049700	33.004400	5.151080	73.773248	2.881880	0.036938	0.366344	0.076218	0.005828	0.003286	0.209613	0.001010	0.020399	0.011570	0.003242	0.032417
16-Apr-2027	0.305796	21.049800	33.004600	5.151110	73.773622	2.881900	0.036938	0.366346	0.076219	0.005828	0.003286	0.209614	0.001010	0.020399	0.011570	0.003242	0.032417

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
17-Apr-2027	0.305796	21.049500	33.004300	5.151050	73.772625	2.881870	0.036938	0.366342	0.076218	0.005828	0.003286	0.209612	0.001010	0.020399	0.011570	0.003242	0.032417
18-Apr-2027	0.305796	21.049200	33.003800	5.150980	73.771588	2.881830	0.036938	0.366337	0.076217	0.005828	0.003286	0.209609	0.001010	0.020399	0.011570	0.003242	0.032416
19-Apr-2027	0.305796	21.049000	33.003400	5.150920	73.770842	2.881790	0.036937	0.366333	0.076216	0.005828	0.003286	0.209606	0.001010	0.020398	0.011569	0.003242	0.032416
20-Apr-2027	0.305796	21.048800	33.003100	5.150880	73.770177	2.881770	0.036937	0.366330	0.076215	0.005828	0.003286	0.209605	0.001010	0.020398	0.011569	0.003242	0.032416
21-Apr-2027	0.305796	21.048700	33.003000	5.150860	73.769845	2.881760	0.036937	0.366328	0.076215	0.005828	0.003286	0.209604	0.001010	0.020398	0.011569	0.003242	0.032416
22-Apr-2027	0.305796	21.048700	33.002900	5.150840	73.769763	2.881750	0.036937	0.366327	0.076215	0.005828	0.003286	0.209603	0.001010	0.020398	0.011569	0.003242	0.032416
23-Apr-2027	0.305796	21.048600	33.002800	5.150840	73.769513	2.881750	0.036936	0.366327	0.076215	0.005828	0.003286	0.209603	0.001010	0.020398	0.011569	0.003242	0.032416
24-Apr-2027	0.305796	21.048600	33.002800	5.150830	73.769472	2.881750	0.036936	0.366327	0.076215	0.005828	0.003286	0.209603	0.001010	0.020398	0.011569	0.003242	0.032416
25-Apr-2027	0.305796	21.048700	33.002900	5.150840	73.769763	2.881750	0.036937	0.366327	0.076215	0.005828	0.003286	0.209603	0.001010	0.020398	0.011569	0.003242	0.032416
26-Apr-2027	0.305796	21.048800	33.003100	5.150880	73.770177	2.881770	0.036937	0.366330	0.076215	0.005828	0.003286	0.209605	0.001010	0.020398	0.011569	0.003242	0.032416
27-Apr-2027	0.305796	21.049100	33.003500	5.150940	73.771174	2.881810	0.036937	0.366334	0.076216	0.005828	0.003286	0.209607	0.001010	0.020398	0.011569	0.003242	0.032416
28-Apr-2027	0.305796	21.049500	33.004200	5.151050	73.772625	2.881860	0.036938	0.366342	0.076218	0.005828	0.003286	0.209611	0.001010	0.020399	0.011570	0.003242	0.032417
29-Apr-2027	0.305796	21.050100	33.005200	5.151200	73.774741	2.881950	0.036939	0.366352	0.076220	0.005828	0.003286	0.209618	0.001010	0.020399	0.011570	0.003242	0.032418
30-Apr-2027	0.305800	21.050400	33.005600	5.151260	73.775737	2.881990	0.036940	0.366357	0.076221	0.005828	0.003286	0.209620	0.001010	0.020400	0.011570	0.003242	0.032418
1-May-2027	0.305890	21.041500	32.991600	5.149080	73.744537	2.880770	0.036924	0.366202	0.076189	0.005826	0.003285	0.209532	0.001009	0.020391	0.011565	0.003240	0.032405
2-May-2027	0.306417	20.979800	32.894900	5.133990	73.528331	2.872320	0.036816	0.365128	0.075965	0.005808	0.003275	0.208917	0.001006	0.020331	0.011531	0.003231	0.032310
3-May-2027	0.309092	20.728400	32.500700	5.072460	72.647205	2.837900	0.036374	0.360753	0.075055	0.005739	0.003236	0.206413	0.000994	0.020088	0.011393	0.003192	0.031922
4-May-2027	0.312846	20.365500	31.931800	4.983670	71.375407	2.788220	0.035738	0.354438	0.073741	0.005638	0.003180	0.202800	0.000977	0.019736	0.011194	0.003136	0.031364
5-May-2027	0.316633	19.959900	31.295700	4.884400	69.953830	2.732680	0.035026	0.347378	0.072272	0.005526	0.003116	0.198761	0.000957	0.019343	0.010971	0.003074	0.030739
6-May-2027	0.320043	19.417300	30.444900	4.751620	68.052169	2.658390	0.034074	0.337934	0.070308	0.005376	0.003031	0.193357	0.000931	0.018817	0.010673	0.002990	0.029903
7-May-2027	0.325143	18.940200	29.696900	4.634870	66.380074	2.593080	0.033237	0.329631	0.068580	0.005244	0.002957	0.188607	0.000909	0.018355	0.010410	0.002917	0.029168
8-May-2027	0.328865	18.538400	29.066900	4.536540	64.971857	2.538070	0.032531	0.322638	0.067125	0.005133	0.002894	0.184605	0.000889	0.017965	0.010189	0.002855	0.028550
9-May-2027	0.334960	18.133400	28.431900	4.437430	63.552437	2.482620	0.031821	0.315590	0.065659	0.005020	0.002831	0.180572	0.000870	0.017573	0.009967	0.002793	0.027926
10-May-2027	0.339165	17.874800	28.026500	4.374170	62.646208	2.447230	0.031367	0.311090	0.064723	0.004949	0.002791	0.177998	0.000857	0.017322	0.009825	0.002753	0.027528
11-May-2027	0.381255	17.754200	27.837400	4.344650	62.223506	2.430710	0.031155	0.308991	0.064286	0.004915	0.002772	0.176797	0.000852	0.017205	0.009758	0.002734	0.027342
12-May-2027	0.392629	17.378600	27.248500	4.252740	60.907148	2.379290	0.030496	0.302454	0.062926	0.004811	0.002713	0.173057	0.000834	0.016841	0.009552	0.002676	0.026764
13-May-2027	0.408394	17.027100	26.697400	4.166720	59.675222	2.331160	0.029879	0.296337	0.061653	0.004714	0.002658	0.169556	0.000817	0.016501	0.009359	0.002622	0.026222
14-May-2027	0.430814	16.845000	26.411800	4.122160	59.037020	2.306230	0.029560	0.293167	0.060994	0.004664	0.002630	0.167743	0.000808	0.016324	0.009259	0.002594	0.025942
15-May-2027	0.464394	16.454600	25.799700	4.026620	57.668757	2.252780	0.028875	0.286373	0.059580	0.004556	0.002569	0.163855	0.000789	0.015946	0.009044	0.002534	0.025341
16-May-2027	0.486754	16.219600	25.431300	3.969130	56.845219	2.220610	0.028462	0.282284	0.058729	0.004491	0.002532	0.161516	0.000778	0.015718	0.008915	0.002498	0.024979
17-May-2027	0.494235	16.108700	25.257300	3.941970	56.456456	2.205420	0.028268	0.280353	0.058328	0.004460	0.002515	0.160411	0.000773	0.015611	0.008854	0.002481	0.024808
18-May-2027	0.497307	15.736100	24.673100	3.850800	55.150636	2.154410	0.027614	0.273868	0.056979	0.004357	0.002457	0.156700	0.000755	0.015250	0.008649	0.002423	0.024234
19-May-2027	0.496821	15.534900	24.357700	3.801560	54.445469	2.126870	0.027261	0.270367	0.056250	0.004301	0.002425	0.154697	0.000745	0.015055	0.008539	0.002392	0.023924
20-May-2027	0.536840	14.102000	22.111000	3.450920	49.423583	1.930690	0.024746	0.245429	0.051062	0.003904	0.002202	0.140428	0.000676	0.013666	0.007751	0.002172	0.021718
21-May-2027	0.547731	13.756900	21.569900	3.366460	48.214062	1.883440	0.024141	0.239423	0.049812	0.003809	0.002148	0.136992	0.000660	0.013332	0.007561	0.002119	0.021186
22-May-2027	0.566677	13.304400	20.860500	3.255740	46.628224	1.821500	0.023347	0.231548	0.048174	0.003683	0.002077	0.132486	0.000638	0.012893	0.007313	0.002049	0.020489
23-May-2027	0.585771	12.736200	19.969400	3.116680	44.636780	1.743690	0.022350	0.221658	0.046116	0.003526	0.001988	0.126827	0.000611	0.012342	0.007000	0.001961	0.019614
24-May-2027	0.615597	11.730600	18.392800	2.870610	41.112480	1.606030	0.020585	0.204158	0.042475	0.003248	0.001831	0.116814	0.000563	0.011368	0.006448	0.001807	0.018066
25-May-2027	0.661552	10.570900	16.574400	2.586810	37.048021	1.447250	0.018550	0.183974	0.038276	0.002927	0.001650	0.105265	0.000507	0.010244	0.005810	0.001628	0.016279
26-May-2027	0.694901	9.979720	15.647500	2.442150	34.976135	1.366310	0.017513	0.173685	0.036135	0.002763	0.001558	0.099378	0.000479	0.009671	0.005485	0.001537	0.015369
27-May-2027	0.725420	9.530500	14.943200	2.332220	33.401740	1.304810	0.016724	0.165867	0.034509	0.002639	0.001488	0.094905	0.000457	0.009236	0.005238	0.001468	0.014677
28-May-2027	0.756708	9.386480	14.717400	2.296970	32.896963	1.285090	0.016472	0.163361	0.033987	0.002599	0.001465	0.093471	0.000450	0.009096	0.005159	0.001446	0.014455
29-May-2027	0.774418	10.329300	16.195600	2.527690	36.201290	1.414170	0.018126	0.179769	0.037401	0.002860	0.001613	0.102859	0.000496	0.010010	0.005677	0.001591	0.015907
30-May-2027	0.804576	10.198100	15.989900	2.495580	35.741454	1.396210	0.017896	0.177485	0.036926	0.002823	0.001592	0.101553	0.000489	0.009883	0.005605	0.001571	0.015705
31-May-2027	0.804959	10.409800	16.321800	2.547380	36.483381	1.425190	0.018267	0.181169	0.037693	0.002882	0.001625	0.103661	0.000499	0.010088	0.005722	0.001603	0.016031
1-Jun-2027	0.815725	10.301500	16.152000	2.520890	36.103871	1.410370	0.018077	0.179285	0.037301	0.002852	0.001608	0.102583	0.000494	0.009983	0.005662	0.001586	0.015865
2-Jun-2027	0.951289	9.858700	15.457800	2.412530	34.551972	1.349740	0.017300	0.171579	0.035697	0.002729	0.001539	0.098173	0.000473	0.009554	0.005419	0.001518	0.015183
3-Jun-2027	0.993153	9.814140	15.387900	2.401630	34.395820	1.343640	0.017222	0.170803	0.035536	0.002717	0.001532	0.097729	0.000471	0.009511	0.005394	0.001511	0.015114
4-Jun-2027	1.039284	9.828960	15.411100	2.405250	34.447733	1.345670	0.017248	0.171061	0.035590	0.002721	0.001535	0.097877	0.000472	0.009525	0.005402	0.001514	0.015137
5-Jun-2027	1.071747	9.301150	14.583600	2.276090	32.597910	1.273410	0.016322	0.161875	0.033678	0.002575	0.001452	0.092621	0.000446	0.009014	0.005112	0.001432	0.014324
6-Jun-2027	1.082573	8.564680	13.428800	2.095880	30.016840	1.172580	0.015029	0.149058	0.031012	0.002371	0.001337	0.085288	0.000411	0.008300	0.004707	0.001319	0.013190

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Jun-2027	1.118030	8.775450	13.731400	2.155640	30.789224	1.196170	0.015366	0.152396	0.032168	0.002423	0.001385	0.088026	0.000420	0.008539	0.004819	0.001353	0.013526
8-Jun-2027	1.279123	8.475340	13.167400	2.109440	29.849598	1.137350	0.014732	0.146128	0.032454	0.002315	0.001389	0.087126	0.000400	0.008366	0.004641	0.001311	0.013105
9-Jun-2027	1.468613	7.946050	12.138700	2.037880	28.233277	1.025820	0.013583	0.134819	0.033520	0.002114	0.001415	0.086265	0.000365	0.008107	0.004321	0.001238	0.012382
10-Jun-2027	1.606513	7.831010	11.856400	2.039440	27.952446	0.989562	0.013260	0.131644	0.034588	0.002053	0.001452	0.087346	0.000354	0.008125	0.004243	0.001225	0.012247
11-Jun-2027	1.841010	7.723340	11.586500	2.042550	27.696401	0.954352	0.012951	0.128611	0.035684	0.001994	0.001491	0.088481	0.000343	0.008150	0.004169	0.001212	0.012123
12-Jun-2027	2.404690	7.542950	11.227800	2.020370	27.154630	0.914238	0.012544	0.124576	0.036138	0.001922	0.001504	0.088330	0.000330	0.008071	0.004058	0.001188	0.011875
13-Jun-2027	3.079467	7.409390	10.961300	2.004100	26.754131	0.884409	0.012243	0.121574	0.036489	0.001869	0.001514	0.088252	0.000321	0.008015	0.003977	0.001169	0.011693
14-Jun-2027	3.449310	7.396890	10.945400	1.999570	26.704264	0.883289	0.012213	0.121186	0.036301	0.001867	0.001509	0.088042	0.000321	0.007997	0.003970	0.001166	0.011663
15-Jun-2027	3.775397	7.374100	10.921600	1.989980	26.607865	0.882510	0.012177	0.120716	0.035949	0.001866	0.001498	0.087567	0.000320	0.007958	0.003960	0.001161	0.011613
16-Jun-2027	4.084323	7.268700	10.731200	1.970990	26.266481	0.863168	0.011962	0.118528	0.035895	0.001831	0.001495	0.087096	0.000314	0.007888	0.003898	0.001146	0.011458
17-Jun-2027	4.465197	7.152030	10.539600	1.944070	25.864299	0.845598	0.011741	0.116218	0.035496	0.001799	0.001480	0.086162	0.000308	0.007785	0.003833	0.001127	0.011271
18-Jun-2027	4.742857	7.002880	10.277200	1.915660	25.374879	0.819549	0.011449	0.113312	0.035369	0.001750	0.001472	0.085311	0.000299	0.007677	0.003747	0.001105	0.011054
19-Jun-2027	4.856950	6.854310	10.026200	1.883800	24.872700	0.795783	0.011166	0.110431	0.035021	0.001706	0.001457	0.084264	0.000291	0.007556	0.003663	0.001083	0.010827
20-Jun-2027	4.962697	6.746120	9.833290	1.863230	24.517843	0.776675	0.010955	0.108277	0.034918	0.001673	0.001452	0.083773	0.000285	0.007481	0.003601	0.001066	0.010664
21-Jun-2027	5.039477	6.602050	9.583850	1.834160	24.038390	0.752454	0.010677	0.105477	0.034684	0.001629	0.001441	0.082896	0.000277	0.007371	0.003519	0.001045	0.010448
22-Jun-2027	5.109723	6.479420	9.370780	1.809350	23.630015	0.731809	0.010440	0.103075	0.034473	0.001592	0.001432	0.082194	0.000270	0.007278	0.003449	0.001026	0.010262
23-Jun-2027	5.145790	6.366740	9.165650	1.788710	23.263658	0.711317	0.010220	0.100826	0.034411	0.001559	0.001428	0.081833	0.000263	0.007206	0.003384	0.001009	0.010092
24-Jun-2027	5.196180	6.226340	8.919490	1.760840	22.798310	0.687355	0.009951	0.098101	0.034214	0.001517	0.001419	0.081105	0.000255	0.007103	0.003304	0.000988	0.009881
25-Jun-2027	5.300510	6.093460	8.682820	1.735700	22.362982	0.663953	0.009695	0.095539	0.034119	0.001476	0.001412	0.080496	0.000247	0.007011	0.003228	0.000969	0.009685
26-Jun-2027	5.554637	5.962750	8.451060	1.710820	21.934144	0.641062	0.009444	0.093029	0.034016	0.001436	0.001405	0.079855	0.000239	0.006919	0.003153	0.000949	0.009494
27-Jun-2027	5.904947	5.881280	8.303870	1.695610	21.668078	0.626501	0.009288	0.091449	0.033968	0.001412	0.001401	0.079572	0.000235	0.006865	0.003106	0.000937	0.009372
28-Jun-2027	6.359727	5.832440	8.206070	1.688820	21.518163	0.616139	0.009190	0.090442	0.034074	0.001397	0.001404	0.079673	0.000231	0.006846	0.003077	0.000930	0.009302
29-Jun-2027	6.644133	5.724880	8.018050	1.667180	21.160473	0.597973	0.008985	0.088376	0.033908	0.001366	0.001396	0.079118	0.000225	0.006766	0.003016	0.000914	0.009140
30-Jun-2027	6.879660	5.630910	7.850080	1.649270	20.852076	0.581488	0.008808	0.086578	0.033839	0.001338	0.001391	0.078738	0.000219	0.006702	0.002962	0.000900	0.009000
1-Jul-2027	7.176367	5.559990	7.720470	1.636440	20.622155	0.568623	0.008675	0.085246	0.033851	0.001318	0.001389	0.078546	0.000215	0.006658	0.002921	0.000890	0.008895
2-Jul-2027	8.228963	5.632530	7.909080	1.628580	20.770920	0.595178	0.008897	0.087094	0.032584	0.001378	0.001353	0.078043	0.000223	0.006629	0.002974	0.000893	0.008935
3-Jul-2027	8.787630	5.780700	8.163560	1.657550	21.260199	0.620411	0.009192	0.089947	0.032840	0.001431	0.001362	0.079171	0.000231	0.006745	0.003060	0.000915	0.009153
4-Jul-2027	10.132933	5.840010	8.262170	1.668480	21.453306	0.630903	0.009326	0.091190	0.032900	0.001461	0.001365	0.079962	0.000235	0.006796	0.003095	0.000923	0.009232
5-Jul-2027	11.495933	5.831680	8.245460	1.666170	21.422993	0.629728	0.009319	0.091108	0.032869	0.001464	0.001364	0.080129	0.000234	0.006794	0.003092	0.000922	0.009216
6-Jul-2027	12.851367	5.896930	8.361010	1.676350	21.627844	0.641622	0.009447	0.092365	0.032960	0.001489	0.001365	0.080560	0.000238	0.006846	0.003132	0.000931	0.009311
7-Jul-2027	13.791300	5.904690	8.376370	1.677420	21.651626	0.643434	0.009464	0.092529	0.032923	0.001493	0.001365	0.080589	0.000239	0.006849	0.003136	0.000932	0.009321
8-Jul-2027	14.712667	5.910480	8.393320	1.676350	21.661678	0.645756	0.009482	0.092708	0.032819	0.001498	0.001361	0.080503	0.000239	0.006845	0.003141	0.000933	0.009326
9-Jul-2027	15.389900	5.964570	8.492330	1.684670	21.831002	0.656075	0.009588	0.093759	0.032826	0.001520	0.001361	0.080797	0.000243	0.006881	0.003173	0.000940	0.009404
10-Jul-2027	16.479900	5.964460	8.504470	1.680690	21.814338	0.658513	0.009599	0.093868	0.032663	0.001524	0.001354	0.080550	0.000243	0.006867	0.003176	0.000940	0.009400
11-Jul-2027	16.514333	5.979370	8.550250	1.678250	21.841520	0.664858	0.009640	0.094292	0.032501	0.001534	0.001346	0.080290	0.000245	0.006860	0.003188	0.000942	0.009417
12-Jul-2027	16.514667	5.981930	8.556970	1.676940	21.842518	0.665837	0.009648	0.094364	0.032388	0.001537	0.001342	0.080215	0.000246	0.006854	0.003190	0.000942	0.009418
13-Jul-2027	16.147733	5.972130	8.547670	1.672690	21.800546	0.665729	0.009637	0.094256	0.032259	0.001537	0.001337	0.080009	0.000245	0.006837	0.003185	0.000940	0.009400
14-Jul-2027	16.400233	5.964660	8.543940	1.668350	21.764021	0.666354	0.009631	0.094209	0.032110	0.001539	0.001331	0.079802	0.000245	0.006820	0.003183	0.000938	0.009385
15-Jul-2027	16.688400	6.029010	8.654550	1.680680	21.975478	0.676952	0.009746	0.095349	0.032241	0.001559	0.001336	0.080214	0.000249	0.006873	0.003220	0.000948	0.009482
16-Jul-2027	17.249267	6.081520	8.755510	1.687940	22.136492	0.687488	0.009845	0.096344	0.032212	0.001577	0.001335	0.080288	0.000253	0.006902	0.003252	0.000956	0.009559
17-Jul-2027	15.983067	6.171940	8.924120	1.701680	22.418852	0.704650	0.010011	0.098014	0.032245	0.001607	0.001335	0.080511	0.000258	0.006961	0.003306	0.000969	0.009693
18-Jul-2027	16.469667	6.192310	8.965890	1.703870	22.478735	0.709197	0.010051	0.098410	0.032192	0.001614	0.001333	0.080482	0.000260	0.006969	0.003319	0.000972	0.009722
19-Jul-2027	15.702267	6.153230	8.920930	1.689860	22.323459	0.706887	0.009994	0.097863	0.031822	0.001608	0.001318	0.079722	0.000259	0.006910	0.003300	0.000966	0.009657
20-Jul-2027	15.228600	6.028390	8.752350	1.651990	21.855785	0.694860	0.009798	0.095960	0.031010	0.001578	0.001285	0.077830	0.000254	0.006754	0.003235	0.000946	0.009457
21-Jul-2027	15.520867	6.046130	8.787490	1.654150	21.908976	0.698652	0.009833	0.096306	0.030975	0.001585	0.001284	0.077850	0.000255	0.006762	0.003246	0.000948	0.009482
22-Jul-2027	16.790933	6.159390	8.965440	1.681970	22.306349	0.714110	0.010023	0.098176	0.031344	0.001618	0.001301	0.079018	0.000261	0.006869	0.003308	0.000965	0.009655
23-Jul-2027	15.449300	6.052280	8.813450	1.651610	21.913873	0.702403	0.009850	0.096491	0.030747	0.001591	0.001276	0.077551	0.000256	0.006745	0.003251	0.000949	0.009486
24-Jul-2027	15.855500	6.131470	8.941250	1.669770	22.186393	0.713865	0.009986	0.097828	0.030982	0.001615	0.001286	0.078278	0.000260	0.006817	0.003295	0.000961	0.009606
25-Jul-2027	15.006800	6.146520	8.977650	1.670060	22.225168	0.718176	0.010017	0.098146	0.030868	0.001621	0.001282	0.078120	0.000262	0.006815	0.003305	0.000963	0.009626
26-Jul-2027	15.004067	6.190360	9.054680	1.678360	22.368815	0.725634	0.010094	0.098918	0.030919	0.001635	0.001285	0.078365	0.000264	0.006848	0.003330	0.000969	0.009691
27-Jul-2027	14.016500	6.145160	9.000160	1.663020	22.192781	0.722383	0.010026	0.098254	0.030539	0.001626	0.001269	0.077510	0.000263	0.006783	0.003307	0.000962	0.009617

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Jul-2027	13.705400	6.158590	9.029350	1.664210	22.231216	0.725630	0.010051	0.098514	0.030475	0.001631	0.001267	0.077449	0.000264	0.006785	0.003316	0.000964	0.009636
29-Jul-2027	13.648367	6.218040	9.126600	1.677700	22.435214	0.734400	0.010152	0.099512	0.030631	0.001648	0.001275	0.077951	0.000267	0.006837	0.003349	0.000973	0.009726
30-Jul-2027	13.172500	6.317450	9.288150	1.700360	22.776755	0.748898	0.010321	0.101182	0.030916	0.001677	0.001287	0.078812	0.000272	0.006926	0.003404	0.000988	0.009878
31-Jul-2027	13.012233	6.364180	9.367180	1.710130	22.933673	0.756257	0.010402	0.101982	0.031013	0.001691	0.001291	0.079136	0.000275	0.006965	0.003431	0.000995	0.009948
1-Aug-2027	13.671967	6.479380	9.554260	1.736340	23.329260	0.773016	0.010597	0.103914	0.031354	0.001724	0.001306	0.080123	0.000281	0.007069	0.003495	0.001012	0.010124
2-Aug-2027	14.087067	6.531970	9.640860	1.748090	23.508964	0.780865	0.010687	0.104799	0.031488	0.001740	0.001312	0.080546	0.000283	0.007115	0.003524	0.001020	0.010204
3-Aug-2027	14.605133	6.640110	9.822740	1.771980	23.877368	0.797429	0.010867	0.106587	0.031714	0.001771	0.001323	0.081299	0.000289	0.007202	0.003585	0.001037	0.010369
4-Aug-2027	14.995900	6.761070	10.034400	1.795470	24.276137	0.817529	0.011074	0.108643	0.031903	0.001806	0.001331	0.081918	0.000296	0.007293	0.003654	0.001055	0.010552
5-Aug-2027	15.856433	6.761800	10.055900	1.790340	24.256835	0.821074	0.011079	0.108712	0.031649	0.001809	0.001321	0.081394	0.000297	0.007268	0.003657	0.001055	0.010548
6-Aug-2027	15.420433	6.763690	10.073600	1.787000	24.247800	0.823813	0.011085	0.108775	0.031465	0.001811	0.001314	0.081032	0.000298	0.007250	0.003660	0.001055	0.010548
7-Aug-2027	15.905867	6.874310	10.252300	1.813650	24.633763	0.839409	0.011263	0.110520	0.031756	0.001842	0.001330	0.082003	0.000304	0.007347	0.003720	0.001072	0.010716
8-Aug-2027	15.841067	6.896160	10.289500	1.818920	24.710024	0.842689	0.011295	0.110832	0.031766	0.001849	0.001332	0.082145	0.000305	0.007361	0.003732	0.001075	0.010748
9-Aug-2027	16.439200	6.949350	10.380800	1.830620	24.891020	0.851060	0.011380	0.111657	0.031821	0.001865	0.001336	0.082508	0.000308	0.007399	0.003761	0.001083	0.010827
10-Aug-2027	15.625967	6.973170	10.433500	1.832320	24.957499	0.856876	0.011421	0.112072	0.031712	0.001874	0.001332	0.082352	0.000310	0.007402	0.003776	0.001086	0.010860
11-Aug-2027	15.148833	6.902410	10.331300	1.813550	24.703517	0.848633	0.011300	0.110881	0.031302	0.001855	0.001317	0.081435	0.000307	0.007319	0.003737	0.001075	0.010747
12-Aug-2027	14.686000	6.955390	10.423000	1.824730	24.881847	0.857115	0.011385	0.111714	0.031360	0.001872	0.001321	0.081754	0.000310	0.007357	0.003767	0.001083	0.010826
13-Aug-2027	14.635900	7.054050	10.581600	1.848180	25.224768	0.871003	0.011545	0.113287	0.031647	0.001900	0.001335	0.082645	0.000315	0.007445	0.003821	0.001098	0.010977
14-Aug-2027	13.748900	7.053570	10.591200	1.846200	25.215416	0.872437	0.011539	0.113228	0.031484	0.001900	0.001330	0.082372	0.000315	0.007429	0.003821	0.001097	0.010973
15-Aug-2027	12.508000	7.087480	10.654900	1.852220	25.324880	0.878635	0.011592	0.113750	0.031457	0.001911	0.001331	0.082435	0.000317	0.007446	0.003841	0.001102	0.011023
16-Aug-2027	12.205300	7.152850	10.767100	1.866830	25.548272	0.888754	0.011693	0.114735	0.031545	0.001929	0.001337	0.082840	0.000321	0.007493	0.003877	0.001112	0.011121
17-Aug-2027	12.031267	7.201550	10.857300	1.875470	25.705456	0.897520	0.011771	0.115511	0.031538	0.001944	0.001338	0.082947	0.000324	0.007521	0.003905	0.001119	0.011193
18-Aug-2027	12.972433	7.274350	10.988700	1.889380	25.944519	0.909994	0.011887	0.116659	0.031582	0.001965	0.001341	0.083210	0.000328	0.007568	0.003946	0.001130	0.011302
19-Aug-2027	13.643100	7.339650	11.110800	1.900080	26.151635	0.922061	0.011996	0.117736	0.031582	0.001985	0.001341	0.083332	0.000332	0.007607	0.003984	0.001140	0.011399
20-Aug-2027	12.892667	7.333680	11.100000	1.900140	26.136975	0.920705	0.011976	0.117530	0.031524	0.001983	0.001342	0.083308	0.000332	0.007598	0.003980	0.001139	0.011389
21-Aug-2027	12.832800	7.383860	11.180300	1.912480	26.313091	0.927574	0.012053	0.118268	0.031652	0.001997	0.001349	0.083772	0.000334	0.007642	0.004007	0.001146	0.011465
22-Aug-2027	12.721567	7.409080	11.225500	1.917210	26.395544	0.931857	0.012091	0.118635	0.031657	0.002005	0.001350	0.083886	0.000336	0.007658	0.004021	0.001150	0.011501
23-Aug-2027	12.950567	7.469470	11.327300	1.930130	26.599542	0.941122	0.012187	0.119575	0.031775	0.002023	0.001356	0.084312	0.000339	0.007707	0.004055	0.001159	0.011592
24-Aug-2027	13.164367	7.571330	11.497100	1.952010	26.943988	0.956563	0.012354	0.121215	0.032021	0.002053	0.001366	0.085066	0.000345	0.007794	0.004113	0.001175	0.011746
25-Aug-2027	13.463800	7.600890	11.546300	1.958600	27.044937	0.960968	0.012400	0.121661	0.032078	0.002062	0.001370	0.085286	0.000346	0.007818	0.004129	0.001179	0.011790
26-Aug-2027	13.102933	7.641140	11.611900	1.969080	27.188598	0.966438	0.012456	0.122197	0.032146	0.002072	0.001375	0.085618	0.000348	0.007849	0.004150	0.001185	0.011851
27-Aug-2027	12.633300	7.681150	11.697300	1.973190	27.305428	0.975435	0.012520	0.122836	0.032023	0.002085	0.001371	0.085392	0.000351	0.007859	0.004175	0.001191	0.011909
28-Aug-2027	12.755833	7.754190	11.826400	1.986920	27.544349	0.987718	0.012641	0.124031	0.032128	0.002106	0.001375	0.085739	0.000355	0.007912	0.004217	0.001202	0.012019
29-Aug-2027	12.440067	7.814680	11.928700	2.000040	27.749421	0.996984	0.012737	0.124973	0.032233	0.002124	0.001381	0.086127	0.000359	0.007960	0.004251	0.001211	0.012110
30-Aug-2027	11.638733	7.743490	11.823900	1.981580	27.495641	0.988321	0.012613	0.123757	0.031854	0.002105	0.001367	0.085239	0.000356	0.007879	0.004212	0.001200	0.011998
31-Aug-2027	11.528700	7.762610	11.855400	1.986940	27.565456	0.990854	0.012636	0.123961	0.031852	0.002110	0.001369	0.085401	0.000357	0.007891	0.004221	0.001202	0.012025
1-Sep-2027	10.889933	7.724920	11.802700	1.976960	27.430247	0.986586	0.012567	0.123279	0.031600	0.002100	0.001361	0.084866	0.000355	0.007843	0.004200	0.001196	0.011965
2-Sep-2027	10.228533	7.718750	11.803700	1.973110	27.398986	0.987398	0.012553	0.123142	0.031428	0.002100	0.001355	0.084534	0.000355	0.007821	0.004198	0.001195	0.011952
3-Sep-2027	10.159367	7.780310	11.911800	1.985150	27.602282	0.997604	0.012654	0.124140	0.031505	0.002118	0.001359	0.084844	0.000359	0.007866	0.004233	0.001204	0.012045
4-Sep-2027	10.503333	7.879650	12.077400	2.007330	27.941671	1.012500	0.012814	0.125712	0.031725	0.002147	0.001370	0.085581	0.000364	0.007948	0.004288	0.001219	0.012195
5-Sep-2027	11.065267	7.865830	12.058400	2.003390	27.890938	1.011040	0.012790	0.125476	0.031634	0.002143	0.001366	0.085380	0.000364	0.007931	0.004281	0.001217	0.012173
6-Sep-2027	10.952133	7.832440	12.030800	1.987600	27.742539	1.010920	0.012745	0.125056	0.031256	0.002137	0.001348	0.084386	0.000363	0.007872	0.004267	0.001212	0.012117
7-Sep-2027	10.600200	7.794240	11.974800	1.977380	27.605068	1.006370	0.012680	0.124423	0.031061	0.002127	0.001341	0.083910	0.000362	0.007830	0.004246	0.001206	0.012057
8-Sep-2027	10.198400	7.809580	12.002000	1.980420	27.655891	1.008950	0.012705	0.124661	0.031067	0.002132	0.001341	0.083988	0.000363	0.007840	0.004255	0.001208	0.012080
9-Sep-2027	9.739157	7.867130	12.097200	1.993500	27.853457	1.017460	0.012797	0.125568	0.031196	0.002149	0.001348	0.084448	0.000366	0.007888	0.004287	0.001217	0.012167
10-Sep-2027	9.527690	7.884140	12.134600	1.994680	27.900790	1.021590	0.012827	0.125873	0.031131	0.002155	0.001345	0.084350	0.000367	0.007892	0.004298	0.001219	0.012190
11-Sep-2027	8.841340	7.848720	12.093000	1.982050	27.760336	1.019250	0.012773	0.125346	0.030835	0.002147	0.001332	0.083649	0.000366	0.007841	0.004280	0.001213	0.012132
12-Sep-2027	8.030673	7.855610	12.107700	1.982750	27.780423	1.020840	0.012783	0.125452	0.030800	0.002150	0.001331	0.083633	0.000366	0.007843	0.004284	0.001214	0.012142
13-Sep-2027	7.432720	7.857040	12.120700	1.980150	27.773287	1.022870	0.012788	0.125503	0.030674	0.002153	0.001326	0.083381	0.000367	0.007831	0.004287	0.001214	0.012141
14-Sep-2027	7.133540	7.906120	12.202400	1.990890	27.940067	1.030300	0.012869	0.126299	0.030787	0.002167	0.001332	0.083753	0.000370	0.007872	0.004314	0.001222	0.012215
15-Sep-2027	6.684340	7.850600	12.127200	1.973820	27.731139	1.024910	0.012782	0.125452	0.030449	0.002154	0.001317	0.082903	0.000368	0.007805	0.004286	0.001213	0.012127
16-Sep-2027	6.298737	7.937850	12.270900	1.993310	28.029262	1.037830	0.012925	0.126869	0.030677	0.002179	0.001327	0.083604	0.000372	0.007882	0.004335	0.001226	0.012260

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
17-Sep-2027	5.918993	7.890380	12.203400	1.979830	27.855219	1.032620	0.012849	0.126125	0.030420	0.002167	0.001316	0.082955	0.000370	0.007827	0.004310	0.001219	0.012185
18-Sep-2027	5.535327	7.871490	12.192700	1.969450	27.765306	1.033450	0.012826	0.125918	0.030151	0.002164	0.001303	0.082266	0.000370	0.007789	0.004302	0.001215	0.012153
19-Sep-2027	5.627323	7.869340	12.197900	1.966390	27.747336	1.034660	0.012826	0.125920	0.030048	0.002164	0.001299	0.082024	0.000371	0.007777	0.004303	0.001215	0.012148
20-Sep-2027	5.173043	7.901140	12.257900	1.971170	27.846425	1.040730	0.012881	0.126476	0.030050	0.002174	0.001299	0.082076	0.000373	0.007797	0.004322	0.001219	0.012195
21-Sep-2027	5.347883	7.900110	12.266300	1.968000	27.830799	1.042340	0.012883	0.126504	0.029937	0.002175	0.001293	0.081800	0.000373	0.007785	0.004323	0.001219	0.012192
22-Sep-2027	5.539983	7.966410	12.380100	1.981480	28.051860	1.052960	0.012995	0.127605	0.030063	0.002195	0.001299	0.082202	0.000377	0.007838	0.004361	0.001229	0.012292
23-Sep-2027	5.137647	7.945160	12.360300	1.972330	27.961119	1.052470	0.012965	0.127321	0.029834	0.002191	0.001289	0.081641	0.000376	0.007802	0.004351	0.001226	0.012256
24-Sep-2027	4.487087	7.900640	12.300100	1.958620	27.793495	1.048170	0.012896	0.126650	0.029567	0.002179	0.001277	0.080945	0.000375	0.007748	0.004328	0.001219	0.012186
25-Sep-2027	4.524980	8.029150	12.515200	1.985980	28.227053	1.067870	0.013112	0.128784	0.029887	0.002217	0.001290	0.081865	0.000382	0.007858	0.004401	0.001238	0.012382
26-Sep-2027	4.581750	8.084680	12.611200	1.996870	28.410557	1.076930	0.013206	0.129721	0.029992	0.002233	0.001294	0.082182	0.000385	0.007902	0.004433	0.001247	0.012466
27-Sep-2027	5.326077	8.049280	12.566400	1.985060	28.273529	1.074050	0.013152	0.129202	0.029748	0.002225	0.001283	0.081546	0.000384	0.007856	0.004415	0.001241	0.012409
28-Sep-2027	5.431763	8.085260	12.635400	1.990210	28.384579	1.081080	0.013216	0.129836	0.029739	0.002236	0.001283	0.081575	0.000386	0.007877	0.004437	0.001246	0.012462
29-Sep-2027	5.062820	8.138040	12.722200	2.002080	28.565251	1.088870	0.013303	0.130693	0.029878	0.002251	0.001289	0.081996	0.000389	0.007923	0.004467	0.001254	0.012542
30-Sep-2027	5.213573	8.262440	12.929700	2.028930	28.986446	1.107790	0.013511	0.132745	0.030188	0.002287	0.001302	0.082912	0.000395	0.008030	0.004537	0.001273	0.012732
1-Oct-2027	5.083177	8.358430	13.086000	2.050890	29.316565	1.121710	0.013669	0.134302	0.030461	0.002315	0.001314	0.083717	0.000400	0.008116	0.004591	0.001288	0.012878
2-Oct-2027	4.107820	8.306750	13.007300	2.037450	29.132174	1.115180	0.013586	0.133489	0.030253	0.002301	0.001305	0.083142	0.000398	0.008064	0.004563	0.001280	0.012798
3-Oct-2027	3.464217	8.330330	13.050600	2.041370	29.207196	1.119470	0.013627	0.133895	0.030266	0.002308	0.001305	0.083214	0.000399	0.008079	0.004577	0.001283	0.012833
4-Oct-2027	3.555193	8.355450	13.093900	2.046420	29.290716	1.123530	0.013669	0.134313	0.030311	0.002315	0.001307	0.083366	0.000401	0.008099	0.004591	0.001287	0.012871
5-Oct-2027	3.156543	8.353280	13.093000	2.045160	29.280109	1.123680	0.013666	0.134289	0.030274	0.002315	0.001306	0.083280	0.000401	0.008094	0.004590	0.001287	0.012867
6-Oct-2027	3.124357	8.315270	13.035500	2.035260	29.144430	1.118930	0.013605	0.133687	0.030113	0.002305	0.001299	0.082848	0.000399	0.008055	0.004570	0.001281	0.012808
7-Oct-2027	2.543120	8.262100	12.954400	2.021640	28.955577	1.112170	0.013519	0.132842	0.029894	0.002291	0.001289	0.082263	0.000396	0.008001	0.004541	0.001273	0.012726
8-Oct-2027	2.220300	8.231700	12.907800	2.013940	28.847960	1.108250	0.013469	0.132358	0.029772	0.002282	0.001284	0.081934	0.000395	0.007970	0.004524	0.001268	0.012679
9-Oct-2027	1.983420	8.234060	12.912100	2.014330	28.855459	1.108680	0.013473	0.132399	0.029773	0.002283	0.001284	0.081942	0.000395	0.007972	0.004526	0.001268	0.012682
10-Oct-2027	0.759039	8.120450	12.736000	1.985990	28.455070	1.093750	0.013288	0.130581	0.029337	0.002252	0.001265	0.080761	0.000390	0.007859	0.004463	0.001251	0.012507
11-Oct-2027	0.337825	8.096860	12.699700	1.980040	28.371664	1.090680	0.013250	0.130204	0.029244	0.002245	0.001261	0.080511	0.000389	0.007836	0.004451	0.001247	0.012470
12-Oct-2027	0.028243	8.045990	12.620600	1.967420	28.192673	1.083960	0.013167	0.129389	0.029050	0.002232	0.001253	0.079987	0.000386	0.007786	0.004423	0.001239	0.012392
13-Oct-2027	0.074903	8.050180	12.627900	1.968300	28.206759	1.084630	0.013174	0.129459	0.029057	0.002233	0.001253	0.080015	0.000387	0.007789	0.004425	0.001240	0.012398
14-Oct-2027	0.050504	8.034150	12.602800	1.964370	28.150548	1.082480	0.013147	0.129202	0.028998	0.002228	0.001251	0.079854	0.000386	0.007773	0.004416	0.001237	0.012373
15-Oct-2027	0.006157	8.000750	12.550600	1.956230	28.033628	1.078010	0.013093	0.128664	0.028872	0.002219	0.001245	0.079520	0.000384	0.007740	0.004398	0.001232	0.012322
16-Oct-2027	0.015172	8.015710	12.574200	1.959920	28.086178	1.080050	0.013117	0.128905	0.028922	0.002223	0.001248	0.079669	0.000385	0.007754	0.004406	0.001234	0.012345
17-Oct-2027	0.022349	8.022580	12.584900	1.961580	28.110169	1.080970	0.013128	0.129016	0.028949	0.002225	0.001249	0.079737	0.000385	0.007761	0.004410	0.001236	0.012355
18-Oct-2027	0.022669	8.076350	12.669300	1.974730	28.298584	1.088220	0.013216	0.129880	0.029142	0.002240	0.001257	0.080271	0.000388	0.007813	0.004439	0.001244	0.012438
19-Oct-2027	0.022471	8.093290	12.695900	1.978880	28.357973	1.090500	0.013244	0.130153	0.029203	0.002245	0.001260	0.080440	0.000389	0.007829	0.004449	0.001246	0.012464
20-Oct-2027	0.021189	8.132280	12.757000	1.988420	28.494617	1.095750	0.013308	0.130780	0.029344	0.002256	0.001266	0.080828	0.000391	0.007867	0.004470	0.001252	0.012524
21-Oct-2027	0.020787	8.170510	12.817000	1.997760	28.628539	1.100900	0.013370	0.131394	0.029482	0.002266	0.001272	0.081208	0.000392	0.007904	0.004491	0.001258	0.012583
22-Oct-2027	0.020659	8.206900	12.874100	2.006660	28.756055	1.105810	0.013430	0.131980	0.029613	0.002276	0.001277	0.081569	0.000394	0.007939	0.004511	0.001264	0.012639
23-Oct-2027	0.022531	8.247680	12.938100	2.016630	28.898939	1.111300	0.013497	0.132635	0.029760	0.002288	0.001284	0.081975	0.000396	0.007979	0.004534	0.001270	0.012702
24-Oct-2027	0.022960	8.295010	13.012300	2.028210	29.064809	1.117680	0.013574	0.133397	0.029931	0.002301	0.001291	0.082445	0.000398	0.008025	0.004560	0.001277	0.012775
25-Oct-2027	0.023383	8.344210	13.089500	2.040240	29.237201	1.124310	0.013655	0.134188	0.030109	0.002315	0.001299	0.082934	0.000401	0.008072	0.004587	0.001285	0.012850
26-Oct-2027	0.022735	8.388620	13.159100	2.051100	29.392814	1.130290	0.013727	0.134902	0.030269	0.002327	0.001306	0.083376	0.000403	0.008115	0.004611	0.001292	0.012919
27-Oct-2027	0.023501	8.445310	13.248000	2.064980	29.591527	1.137910	0.013820	0.135813	0.030475	0.002343	0.001315	0.083941	0.000406	0.008170	0.004642	0.001301	0.013006
28-Oct-2027	0.023796	8.488400	13.315500	2.075530	29.742567	1.143710	0.013890	0.136506	0.030631	0.002355	0.001321	0.084371	0.000408	0.008212	0.004666	0.001307	0.013073
29-Oct-2027	0.023861	8.529330	13.379700	2.085540	29.885991	1.149220	0.013957	0.137164	0.030779	0.002366	0.001328	0.084778	0.000410	0.008251	0.004688	0.001314	0.013136
30-Oct-2027	0.024405	8.583410	13.464500	2.098770	30.075510	1.156500	0.014046	0.138034	0.030974	0.002381	0.001336	0.085316	0.000412	0.008304	0.004718	0.001322	0.013219
31-Oct-2027	0.023865	8.621010	13.523600	2.107960	30.207241	1.161580	0.014107	0.138639	0.031109	0.002391	0.001342	0.085689	0.000414	0.008340	0.004739	0.001328	0.013277
1-Nov-2027	0.023563	8.663580	13.590400	2.118360	30.356366	1.167320	0.014177	0.139323	0.031262	0.002403	0.001349	0.086111	0.000416	0.008381	0.004762	0.001334	0.013342
2-Nov-2027	0.023570	8.712120	13.666500	2.130230	30.526451	1.173860	0.014257	0.140104	0.031438	0.002417	0.001356	0.086594	0.000418	0.008428	0.004789	0.001342	0.013417
3-Nov-2027	0.023634	8.759460	13.740800	2.141800	30.692304	1.180240	0.014334	0.140865	0.031608	0.002430	0.001364	0.087064	0.000421	0.008474	0.004815	0.001349	0.013490
4-Nov-2027	0.023689	8.799690	13.803900	2.151640	30.833279	1.185660	0.014400	0.141512	0.031754	0.002441	0.001370	0.087464	0.000423	0.008513	0.004837	0.001355	0.013552
5-Nov-2027	0.023904	8.844450	13.874100	2.162590	30.990137	1.191690	0.014473	0.142232	0.031915	0.002453	0.001377	0.087909	0.000425	0.008556	0.004862	0.001362	0.013621
6-Nov-2027	0.024038	8.891030	13.947200	2.173980	31.153352	1.197960	0.014549	0.142981	0.032083	0.002466	0.001384	0.088372	0.000427	0.008601	0.004887	0.001369	0.013693

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
7-Nov-2027	0.024138	8.933980	14.014500	2.184480	31.303837	1.203750	0.014620	0.143672	0.032238	0.002478	0.001391	0.088799	0.000429	0.008643	0.004911	0.001376	0.013759
8-Nov-2027	0.024283	8.981310	14.088800	2.196050	31.469665	1.210130	0.014697	0.144433	0.032409	0.002491	0.001398	0.089270	0.000431	0.008689	0.004937	0.001383	0.013832
9-Nov-2027	0.024329	9.030760	14.166300	2.208140	31.642928	1.216790	0.014778	0.145228	0.032587	0.002505	0.001406	0.089761	0.000434	0.008736	0.004964	0.001391	0.013908
10-Nov-2027	0.024359	9.082150	14.247000	2.220710	31.823012	1.223710	0.014862	0.146054	0.032773	0.002519	0.001414	0.090272	0.000436	0.008786	0.004992	0.001399	0.013987
11-Nov-2027	0.024384	9.134650	14.329300	2.233550	32.006980	1.230790	0.014948	0.146899	0.032962	0.002534	0.001422	0.090794	0.000439	0.008837	0.005021	0.001407	0.014068
12-Nov-2027	0.024434	9.185780	14.409500	2.246050	32.186127	1.237680	0.015032	0.147721	0.033147	0.002548	0.001430	0.091302	0.000441	0.008886	0.005049	0.001415	0.014147
13-Nov-2027	0.024495	9.242880	14.499100	2.260020	32.386234	1.245370	0.015125	0.148639	0.033353	0.002564	0.001439	0.091870	0.000444	0.008942	0.005081	0.001423	0.014234
14-Nov-2027	0.024587	9.301000	14.590300	2.274230	32.589876	1.253200	0.015220	0.149574	0.033562	0.002580	0.001448	0.092448	0.000447	0.008998	0.005113	0.001432	0.014324
15-Nov-2027	0.024598	9.357890	14.679500	2.288140	32.789212	1.260870	0.015313	0.150489	0.033768	0.002596	0.001457	0.093013	0.000449	0.009053	0.005144	0.001441	0.014412
16-Nov-2027	0.024538	9.423700	14.782700	2.304230	33.019798	1.269730	0.015421	0.151547	0.034005	0.002614	0.001467	0.093667	0.000453	0.009117	0.005180	0.001451	0.014513
17-Nov-2027	0.024452	9.489160	14.885400	2.320240	33.249181	1.278550	0.015528	0.152600	0.034241	0.002632	0.001477	0.094318	0.000456	0.009180	0.005216	0.001461	0.014614
18-Nov-2027	0.024472	9.557650	14.992900	2.336980	33.489136	1.287780	0.015640	0.153701	0.034488	0.002651	0.001488	0.094999	0.000459	0.009246	0.005254	0.001472	0.014719
19-Nov-2027	0.024475	9.623140	15.095600	2.353000	33.718635	1.296600	0.015747	0.154754	0.034725	0.002669	0.001498	0.095650	0.000462	0.009310	0.005290	0.001482	0.014820
20-Nov-2027	0.024497	9.686650	15.195200	2.368530	33.941172	1.305160	0.015851	0.155776	0.034954	0.002687	0.001508	0.096281	0.000465	0.009371	0.005325	0.001492	0.014918
21-Nov-2027	0.024444	9.701200	15.218000	2.372090	33.992163	1.307120	0.015875	0.156010	0.035007	0.002691	0.001510	0.096426	0.000466	0.009385	0.005333	0.001494	0.014940
22-Nov-2027	0.024436	9.741080	15.280600	2.381830	34.131853	1.312490	0.015940	0.156651	0.035150	0.002702	0.001516	0.096822	0.000468	0.009424	0.005354	0.001500	0.015002
23-Nov-2027	0.024441	9.813070	15.393500	2.399440	34.384130	1.322190	0.016058	0.157809	0.035410	0.002722	0.001528	0.097538	0.000471	0.009493	0.005394	0.001511	0.015113
24-Nov-2027	0.024434	9.870260	15.483200	2.413420	34.584503	1.329900	0.016152	0.158728	0.035617	0.002738	0.001536	0.098106	0.000474	0.009549	0.005426	0.001520	0.015201
25-Nov-2027	0.024430	9.906110	15.539500	2.422190	34.710135	1.334730	0.016210	0.159305	0.035746	0.002748	0.001542	0.098462	0.000476	0.009583	0.005445	0.001526	0.015256
26-Nov-2027	0.024422	9.908260	15.542900	2.422710	34.717645	1.335020	0.016214	0.159339	0.035754	0.002748	0.001542	0.098484	0.000476	0.009585	0.005446	0.001526	0.015259
27-Nov-2027	0.024421	9.938840	15.590800	2.430190	34.824806	1.339140	0.016264	0.159831	0.035864	0.002757	0.001547	0.098788	0.000477	0.009615	0.005463	0.001531	0.015306
28-Nov-2027	0.024420	10.001800	15.689600	2.445590	35.045434	1.347620	0.016367	0.160844	0.036091	0.002774	0.001557	0.099413	0.000480	0.009676	0.005498	0.001540	0.015403
29-Nov-2027	0.024420	10.043800	15.755500	2.455850	35.192559	1.353280	0.016436	0.161519	0.036243	0.002786	0.001564	0.099831	0.000482	0.009716	0.005521	0.001547	0.015468
30-Nov-2027	0.024419	10.116900	15.870200	2.473740	35.448761	1.363140	0.016555	0.162695	0.036507	0.002806	0.001575	0.100558	0.000486	0.009787	0.005561	0.001558	0.015581
1-Dec-2027	0.024419	10.173600	15.959100	2.487590	35.647375	1.370770	0.016648	0.163607	0.036711	0.002822	0.001584	0.101121	0.000489	0.009842	0.005592	0.001567	0.015668
2-Dec-2027	0.024419	10.228200	16.044700	2.500940	35.838686	1.378130	0.016737	0.164484	0.036908	0.002837	0.001592	0.101664	0.000491	0.009895	0.005622	0.001575	0.015752
3-Dec-2027	0.024418	10.275000	16.118100	2.512380	36.002656	1.384430	0.016814	0.165237	0.037077	0.002850	0.001599	0.102129	0.000493	0.009940	0.005648	0.001582	0.015824
4-Dec-2027	0.024418	10.344500	16.227200	2.529380	36.246203	1.393800	0.016928	0.166355	0.037328	0.002869	0.001610	0.102820	0.000497	0.010007	0.005686	0.001593	0.015931
5-Dec-2027	0.024418	10.401600	16.316700	2.543340	36.446269	1.401490	0.017021	0.167273	0.037534	0.002885	0.001619	0.103387	0.000500	0.010063	0.005718	0.001602	0.016019
6-Dec-2027	0.024418	10.423500	16.351100	2.548700	36.523026	1.404440	0.017057	0.167625	0.037613	0.002891	0.001623	0.103605	0.000501	0.010084	0.005730	0.001605	0.016053
7-Dec-2027	0.024417	10.476700	16.434600	2.561720	36.709483	1.411620	0.017144	0.168481	0.037805	0.002906	0.001631	0.104134	0.000503	0.010135	0.005759	0.001613	0.016135
8-Dec-2027	0.024417	10.526500	16.512600	2.573870	36.883867	1.418320	0.017226	0.169281	0.037984	0.002920	0.001639	0.104628	0.000506	0.010183	0.005786	0.001621	0.016211
9-Dec-2027	0.024417	10.585800	16.605600	2.588370	37.091650	1.426300	0.017323	0.170235	0.038198	0.002936	0.001648	0.105218	0.000508	0.010241	0.005819	0.001630	0.016303
10-Dec-2027	0.024417	10.638000	16.687600	2.601150	37.274622	1.433340	0.017408	0.171075	0.038387	0.002951	0.001656	0.105737	0.000511	0.010291	0.005848	0.001638	0.016383
11-Dec-2027	0.024417	10.694400	16.776100	2.614940	37.472240	1.440940	0.017500	0.171982	0.038590	0.002966	0.001665	0.106298	0.000514	0.010346	0.005879	0.001647	0.016470
12-Dec-2027	0.024416	10.752000	16.866500	2.629030	37.674090	1.448710	0.017595	0.172909	0.038798	0.002982	0.001674	0.106870	0.000516	0.010402	0.005910	0.001656	0.016559
13-Dec-2027	0.024416	10.808500	16.955100	2.642840	37.872040	1.456320	0.017687	0.173817	0.039002	0.002998	0.001683	0.107432	0.000519	0.010456	0.005941	0.001665	0.016646
14-Dec-2027	0.024416	10.870200	17.051900	2.657930	38.088245	1.464630	0.017788	0.174809	0.039225	0.003015	0.001692	0.108045	0.000522	0.010516	0.005975	0.001674	0.016741
15-Dec-2027	0.024416	10.932300	17.149300	2.673110	38.305820	1.473000	0.017890	0.175808	0.039449	0.003032	0.001702	0.108662	0.000525	0.010576	0.006009	0.001684	0.016836
16-Dec-2027	0.024416	10.990600	17.240800	2.687370	38.510118	1.480860	0.017985	0.176746	0.039659	0.003049	0.001711	0.109242	0.000528	0.010633	0.006041	0.001693	0.016926
17-Dec-2027	0.024416	11.038700	17.316100	2.699120	38.678610	1.487330	0.018064	0.177518	0.039833	0.003062	0.001718	0.109719	0.000530	0.010679	0.006068	0.001700	0.017000
18-Dec-2027	0.024416	11.097800	17.408900	2.713580	38.885729	1.495300	0.018160	0.178470	0.040046	0.003078	0.001728	0.110307	0.000533	0.010736	0.006100	0.001709	0.017091
19-Dec-2027	0.024416	11.172000	17.525300	2.731720	39.145707	1.505300	0.018282	0.179663	0.040314	0.003099	0.001739	0.111045	0.000537	0.010808	0.006141	0.001721	0.017205
20-Dec-2027	0.024416	11.218600	17.598400	2.743110	39.308971	1.511570	0.018358	0.180412	0.040482	0.003112	0.001746	0.111508	0.000539	0.010853	0.006167	0.001728	0.017277
21-Dec-2027	0.024416	11.269000	17.677400	2.755440	39.485595	1.518370	0.018441	0.181222	0.040664	0.003126	0.001754	0.112009	0.000541	0.010902	0.006194	0.001735	0.017355
22-Dec-2027	0.024416	11.324400	17.764400	2.768990	39.679728	1.525830	0.018531	0.182114	0.040864	0.003141	0.001763	0.112560	0.000544	0.010955	0.006225	0.001744	0.017440
23-Dec-2027	0.024416	11.397900	17.879600	2.786960	39.937258	1.535730	0.018652	0.183295	0.041129	0.003162	0.001774	0.113290	0.000547	0.011027	0.006265	0.001755	0.017553
24-Dec-2027	0.024416	11.458500	17.974700	2.801770	40.149563	1.543900	0.018751	0.184270	0.041348	0.003178	0.001784	0.113892	0.000550	0.011085	0.006299	0.001765	0.017647
25-Dec-2027	0.024416	11.496700	18.034600	2.811110	40.283411	1.549040	0.018813	0.184884	0.041485	0.003189	0.001790	0.114272	0.000552	0.011122	0.006320	0.001771	0.017705
26-Dec-2027	0.024416	11.559000	18.132400	2.826360	40.501773	1.557440	0.018915	0.185887	0.041710	0.003206	0.001799	0.114892	0.000555	0.011182	0.006354	0.001780	0.017801
27-Dec-2027	0.024416	11.633700	18.249500	2.844600	40.763412	1.567500	0.019037	0.187086	0.041980	0.003227	0.001811	0.115633	0.000559	0.011255	0.006395	0.001792	0.017916

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
28-Dec-2027	0.024416	11.701600	18.356000	2.861210	41.001358	1.576650	0.019148	0.188179	0.042225	0.003246	0.001822	0.116308	0.000562	0.011320	0.006432	0.001802	0.018021
29-Dec-2027	0.024416	11.745300	18.424500	2.871890	41.154457	1.582530	0.019220	0.188881	0.042382	0.003258	0.001828	0.116742	0.000564	0.011363	0.006456	0.001809	0.018088
30-Dec-2027	0.024416	11.810900	18.527500	2.887940	41.384354	1.591380	0.019327	0.189937	0.042619	0.003276	0.001839	0.117395	0.000567	0.011426	0.006492	0.001819	0.018189
31-Dec-2027	0.024416	11.901500	18.669600	2.910100	41.701837	1.603590	0.019476	0.191394	0.042946	0.003301	0.001853	0.118296	0.000572	0.011514	0.006542	0.001833	0.018329
1-Jan-2028	0.024416	11.954400	18.752500	2.923010	41.887092	1.610710	0.019562	0.192244	0.043137	0.003316	0.001861	0.118821	0.000574	0.011565	0.006571	0.001841	0.018410
2-Jan-2028	0.024416	11.999300	18.823000	2.934000	42.044464	1.616760	0.019636	0.192966	0.043299	0.003328	0.001868	0.119267	0.000576	0.011608	0.006596	0.001848	0.018479
3-Jan-2028	0.024416	12.076000	18.943300	2.952750	42.313197	1.627090	0.019761	0.194200	0.043576	0.003350	0.001880	0.120030	0.000580	0.011682	0.006638	0.001860	0.018598
4-Jan-2028	0.024416	12.166400	19.085100	2.974850	42.629933	1.639270	0.019909	0.195653	0.043902	0.003375	0.001894	0.120928	0.000584	0.011770	0.006688	0.001874	0.018737
5-Jan-2028	0.024416	12.220800	19.170500	2.988160	42.820580	1.646600	0.019998	0.196528	0.044098	0.003390	0.001902	0.121469	0.000587	0.011823	0.006718	0.001882	0.018821
6-Jan-2028	0.024416	12.270800	19.248900	3.000390	42.995794	1.653350	0.020080	0.197333	0.044279	0.003404	0.001910	0.121966	0.000589	0.011871	0.006745	0.001890	0.018898
7-Jan-2028	0.024416	12.338500	19.355100	3.016940	43.232993	1.662460	0.020191	0.198421	0.044523	0.003422	0.001921	0.122639	0.000593	0.011936	0.006782	0.001900	0.019002
8-Jan-2028	0.024416	12.409200	19.466100	3.034240	43.480773	1.672000	0.020306	0.199559	0.044778	0.003442	0.001932	0.123342	0.000596	0.012005	0.006821	0.001911	0.019111
9-Jan-2028	0.024416	12.466900	19.556500	3.048330	43.682872	1.679760	0.020401	0.200486	0.044986	0.003458	0.001941	0.123915	0.000599	0.012061	0.006853	0.001920	0.019200
10-Jan-2028	0.024416	12.529500	19.654700	3.063640	43.902231	1.688200	0.020503	0.201492	0.045212	0.003475	0.001950	0.124537	0.000602	0.012121	0.006887	0.001930	0.019296
11-Jan-2028	0.024416	12.601200	19.767300	3.081190	44.153537	1.697870	0.020621	0.202646	0.045471	0.003495	0.001962	0.125251	0.000605	0.012191	0.006927	0.001941	0.019407
12-Jan-2028	0.024416	12.664200	19.866000	3.096570	44.374183	1.706350	0.020724	0.203659	0.045698	0.003513	0.001971	0.125876	0.000608	0.012252	0.006961	0.001950	0.019503
13-Jan-2028	0.024416	12.726000	19.962900	3.111680	44.590720	1.714670	0.020825	0.204652	0.045921	0.003530	0.001981	0.126490	0.000611	0.012311	0.006995	0.001960	0.019599
14-Jan-2028	0.024416	12.786200	20.057400	3.126420	44.801739	1.722790	0.020923	0.205621	0.046139	0.003547	0.001990	0.127089	0.000614	0.012370	0.007028	0.001969	0.019691
15-Jan-2028	0.024416	12.855400	20.165900	3.143320	45.044126	1.732110	0.021036	0.206733	0.046388	0.003566	0.002001	0.127776	0.000617	0.012436	0.007066	0.001980	0.019798
16-Jan-2028	0.024416	12.922900	20.271800	3.159830	45.280661	1.741200	0.021147	0.207819	0.046632	0.003585	0.002012	0.128448	0.000621	0.012502	0.007103	0.001990	0.019902
17-Jan-2028	0.024416	12.984100	20.367900	3.174810	45.495165	1.749460	0.021247	0.208804	0.046853	0.003602	0.002021	0.129056	0.000624	0.012561	0.007137	0.002000	0.019996
18-Jan-2028	0.024416	13.046400	20.465600	3.190040	45.713446	1.757850	0.021349	0.209805	0.047078	0.003619	0.002031	0.129675	0.000627	0.012621	0.007171	0.002009	0.020092
19-Jan-2028	0.024416	13.114800	20.572900	3.206760	45.953093	1.767060	0.021461	0.210905	0.047324	0.003638	0.002042	0.130355	0.000630	0.012687	0.007209	0.002020	0.020197
20-Jan-2028	0.024416	13.183100	20.680100	3.223470	46.192450	1.776270	0.021573	0.212004	0.047571	0.003657	0.002052	0.131034	0.000633	0.012754	0.007247	0.002030	0.020303
21-Jan-2028	0.024416	13.250000	20.785000	3.239830	46.426870	1.785290	0.021682	0.213080	0.047812	0.003675	0.002063	0.131699	0.000636	0.012818	0.007283	0.002041	0.020406
22-Jan-2028	0.024416	13.317300	20.890500	3.256270	46.662618	1.794350	0.021792	0.214162	0.048055	0.003694	0.002073	0.132368	0.000640	0.012883	0.007320	0.002051	0.020509
23-Jan-2028	0.024416	13.386900	20.999700	3.273290	46.906498	1.803720	0.021906	0.215281	0.048306	0.003713	0.002084	0.133060	0.000643	0.012951	0.007359	0.002062	0.020616
24-Jan-2028	0.024416	13.456400	21.108700	3.290280	47.150004	1.813090	0.022020	0.216398	0.048557	0.003733	0.002095	0.133750	0.000646	0.013018	0.007397	0.002072	0.020723
25-Jan-2028	0.024416	13.526500	21.218700	3.307420	47.395626	1.822530	0.022135	0.217526	0.048810	0.003752	0.002106	0.134447	0.000650	0.013086	0.007435	0.002083	0.020831
26-Jan-2028	0.024416	13.596900	21.329100	3.324640	47.642327	1.832020	0.022250	0.218658	0.049064	0.003772	0.002117	0.135147	0.000653	0.013154	0.007474	0.002094	0.020940
27-Jan-2028	0.024416	13.673600	21.449400	3.343390	47.911059	1.842350	0.022375	0.219891	0.049341	0.003793	0.002129	0.135909	0.000657	0.013228	0.007516	0.002106	0.021058
28-Jan-2028	0.024416	13.709000	21.505000	3.352050	48.035115	1.847120	0.022433	0.220461	0.049469	0.003803	0.002134	0.136261	0.000658	0.013262	0.007536	0.002111	0.021113
29-Jan-2028	0.024416	13.768500	21.598300	3.366590	48.243562	1.855140	0.022531	0.221417	0.049683	0.003819	0.002143	0.136852	0.000661	0.013320	0.007568	0.002120	0.021204
30-Jan-2028	0.024416	13.842400	21.714300	3.384670	48.502544	1.865100	0.022652	0.222606	0.049950	0.003840	0.002155	0.137587	0.000665	0.013391	0.007609	0.002132	0.021318
31-Jan-2028	0.024416	13.914000	21.826500	3.402160	48.753353	1.874740	0.022769	0.223757	0.050208	0.003860	0.002166	0.138298	0.000668	0.013461	0.007648	0.002143	0.021428
1-Feb-2028	0.024416	14.013200	21.982200	3.426430	49.100999	1.888110	0.022931	0.225353	0.050566	0.003887	0.002181	0.139285	0.000673	0.013557	0.007703	0.002158	0.021581
2-Feb-2028	0.024416	14.113600	22.139700	3.450990	49.452836	1.901640	0.023096	0.226968	0.050929	0.003915	0.002197	0.140283	0.000678	0.013654	0.007758	0.002174	0.021736
3-Feb-2028	0.024416	14.212300	22.294500	3.475120	49.798657	1.914940	0.023257	0.228555	0.051285	0.003942	0.002212	0.141264	0.000683	0.013749	0.007812	0.002189	0.021888
4-Feb-2028	0.024416	14.308500	22.445400	3.498630	50.135683	1.927900	0.023414	0.230101	0.051632	0.003969	0.002227	0.142220	0.000687	0.013842	0.007865	0.002204	0.022036
5-Feb-2028	0.024416	14.402000	22.592100	3.521500	50.463331	1.940500	0.023567	0.231605	0.051969	0.003995	0.002242	0.143149	0.000692	0.013933	0.007917	0.002218	0.022180
6-Feb-2028	0.024416	14.521200	22.779000	3.550640	50.880972	1.956560	0.023762	0.233522	0.052399	0.004028	0.002260	0.144334	0.000697	0.014048	0.007982	0.002236	0.022363
7-Feb-2028	0.024416	14.630800	22.950900	3.577430	51.264964	1.971320	0.023942	0.235284	0.052795	0.004058	0.002278	0.145423	0.000703	0.014154	0.008042	0.002253	0.022532
8-Feb-2028	0.024416	14.734700	23.114000	3.602850	51.629082	1.985320	0.024112	0.236956	0.053170	0.004087	0.002294	0.146456	0.000708	0.014255	0.008099	0.002269	0.022692
9-Feb-2028	0.024416	14.568200	22.852700	3.562130	51.045647	1.962890	0.023839	0.234277	0.052569	0.004041	0.002268	0.144801	0.000700	0.014093	0.008008	0.002244	0.022436
10-Feb-2028	0.024416	14.645100	22.973400	3.580930	51.315084	1.973250	0.023965	0.235514	0.052846	0.004062	0.002280	0.145565	0.000703	0.014168	0.008050	0.002255	0.022554
11-Feb-2028	0.024416	14.723500	23.096400	3.600110	51.589832	1.983820	0.024094	0.236776	0.053129	0.004084	0.002292	0.146345	0.000707	0.014244	0.008093	0.002267	0.022675
12-Feb-2028	0.024416	14.802100	23.219800	3.619340	51.865286	1.994410	0.024222	0.238040	0.053413	0.004106	0.002304	0.147126	0.000711	0.014320	0.008136	0.002280	0.022796
13-Feb-2028	0.024416	14.881000	23.343500	3.638630	52.141735	2.005040	0.024351	0.239309	0.053698	0.004128	0.002317	0.147911	0.000715	0.014396	0.008180	0.002292	0.022917
14-Feb-2028	0.024416	14.959600	23.466800	3.657840	52.417106	2.015630	0.024480	0.240573	0.053981	0.004150	0.002329	0.148692	0.000718	0.014472	0.008223	0.002304	0.023039
15-Feb-2028	0.024416	15.041500	23.595200	3.677850	52.704012	2.026660	0.024614	0.241889	0.054277	0.004172	0.002341	0.149505	0.000722	0.014551	0.008268	0.002316	0.023165
16-Feb-2028	0.024416	15.122300	23.722000	3.697630	52.987223	2.037550	0.024746	0.243189	0.054568	0.004195	0.002354	0.150309	0.000726	0.014630	0.008312	0.002329	0.023289

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
17-Feb-2028	0.024416	15.192300	23.831800	3.714730	53.232431	2.046980	0.024861	0.244314	0.054821	0.004214	0.002365	0.151004	0.000730	0.014697	0.008351	0.002340	0.023397
18-Feb-2028	0.024416	15.295000	23.992900	3.739860	53.592358	2.060820	0.025029	0.245966	0.055192	0.004243	0.002381	0.152026	0.000735	0.014797	0.008407	0.002356	0.023555
19-Feb-2028	0.024416	15.630000	24.518400	3.821760	54.766118	2.105950	0.025577	0.251353	0.056400	0.004336	0.002433	0.155355	0.000751	0.015121	0.008592	0.002407	0.024071
20-Feb-2028	0.024416	15.959800	25.035800	3.902410	55.921745	2.150390	0.026117	0.256657	0.057590	0.004427	0.002484	0.158633	0.000766	0.015440	0.008773	0.002458	0.024579
21-Feb-2028	0.024416	16.256900	25.501800	3.975040	56.962694	2.190420	0.026603	0.261434	0.058662	0.004509	0.002531	0.161586	0.000781	0.015727	0.008936	0.002504	0.025036
22-Feb-2028	0.024416	16.580600	26.009600	4.054210	58.096995	2.234040	0.027133	0.266641	0.059831	0.004599	0.002581	0.164804	0.000796	0.016040	0.009114	0.002553	0.025535
23-Feb-2028	0.024416	16.933400	26.563000	4.140470	59.333155	2.281580	0.027710	0.272314	0.061104	0.004697	0.002636	0.168310	0.000813	0.016382	0.009308	0.002608	0.026078
24-Feb-2028	0.024416	17.207800	26.993400	4.207550	60.294568	2.318540	0.028159	0.276726	0.062094	0.004773	0.002679	0.171037	0.000826	0.016647	0.009459	0.002650	0.026501
25-Feb-2028	0.024416	17.410500	27.311500	4.257120	61.004839	2.345860	0.028491	0.279987	0.062825	0.004829	0.002710	0.173053	0.000836	0.016843	0.009570	0.002681	0.026813
26-Feb-2028	0.024416	17.584500	27.584500	4.299680	61.614579	2.369310	0.028775	0.282785	0.063453	0.004878	0.002737	0.174782	0.000844	0.017012	0.009666	0.002708	0.027081
27-Feb-2028	0.024416	17.764900	27.867500	4.343790	62.246683	2.393620	0.029071	0.285687	0.064104	0.004928	0.002765	0.176575	0.000853	0.017186	0.009765	0.002736	0.027359
28-Feb-2028	0.024416	17.967600	28.185400	4.393350	62.956913	2.420920	0.029402	0.288946	0.064836	0.004984	0.002797	0.178590	0.000863	0.017382	0.009876	0.002767	0.027671
29-Feb-2028	0.024416	18.184200	28.525100	4.446290	63.715770	2.450100	0.029757	0.292428	0.065617	0.005044	0.002831	0.180742	0.000873	0.017592	0.009996	0.002800	0.028004
1-Mar-2028	0.024416	18.398900	28.861900	4.498790	64.468071	2.479030	0.030108	0.295881	0.066392	0.005104	0.002864	0.182876	0.000884	0.017799	0.010114	0.002834	0.028335
2-Mar-2028	0.024416	15.717500	24.655600	3.843150	55.072689	2.117740	0.025720	0.252760	0.056716	0.004360	0.002447	0.156224	0.000755	0.015205	0.008640	0.002421	0.024206
3-Mar-2028	0.024416	15.787800	24.765900	3.860350	55.319058	2.127220	0.025835	0.253891	0.056970	0.004379	0.002458	0.156924	0.000758	0.015273	0.008678	0.002431	0.024314
4-Mar-2028	0.024416	15.866400	24.889200	3.879560	55.594429	2.137800	0.025964	0.255155	0.057253	0.004401	0.002470	0.157705	0.000762	0.015349	0.008721	0.002443	0.024435
5-Mar-2028	0.024416	15.951400	25.022600	3.900350	55.892287	2.149260	0.026103	0.256522	0.057560	0.004425	0.002483	0.158550	0.000766	0.015432	0.008768	0.002457	0.024566
6-Mar-2028	0.024416	16.039600	25.160900	3.921910	56.201307	2.161140	0.026247	0.257940	0.057878	0.004449	0.002497	0.159426	0.000770	0.015517	0.008817	0.002470	0.024702
7-Mar-2028	0.024416	16.129000	25.301100	3.943760	56.514517	2.173180	0.026393	0.259377	0.058201	0.004474	0.002511	0.160314	0.000775	0.015603	0.008866	0.002484	0.024839
8-Mar-2028	0.024416	16.217800	25.440400	3.965480	56.825693	2.185150	0.026539	0.260805	0.058521	0.004499	0.002525	0.161197	0.000779	0.015689	0.008915	0.002498	0.024976
9-Mar-2028	0.024416	16.305200	25.577500	3.986850	57.131933	2.196930	0.026682	0.262211	0.058837	0.004523	0.002538	0.162066	0.000783	0.015774	0.008963	0.002511	0.025111
10-Mar-2028	0.024416	16.392100	25.713900	4.008110	57.436471	2.208640	0.026824	0.263609	0.059150	0.004547	0.002552	0.162930	0.000787	0.015858	0.009010	0.002524	0.025245
11-Mar-2028	0.024416	16.479200	25.850500	4.029400	57.741632	2.220370	0.026967	0.265010	0.059465	0.004571	0.002565	0.163796	0.000791	0.015942	0.009058	0.002538	0.025379
12-Mar-2028	0.024416	16.563900	25.983400	4.050110	58.038411	2.231790	0.027105	0.266372	0.059770	0.004595	0.002578	0.164637	0.000795	0.016024	0.009105	0.002551	0.025509
13-Mar-2028	0.024416	16.646000	26.112200	4.070200	58.326146	2.242850	0.027240	0.267693	0.060067	0.004617	0.002591	0.165454	0.000799	0.016104	0.009150	0.002564	0.025636
14-Mar-2028	0.024416	16.726100	26.237800	4.089770	58.606745	2.253640	0.027371	0.268980	0.060356	0.004640	0.002604	0.166250	0.000803	0.016181	0.009194	0.002576	0.025759
15-Mar-2028	0.024416	16.920000	26.542100	4.137190	59.286188	2.279770	0.027688	0.272099	0.061055	0.004693	0.002634	0.168177	0.000813	0.016369	0.009301	0.002606	0.026058
16-Mar-2028	0.024416	17.093400	26.814100	4.179590	59.893771	2.303140	0.027972	0.274887	0.061681	0.004741	0.002661	0.169901	0.000821	0.016536	0.009396	0.002632	0.026325
17-Mar-2028	0.024416	17.265000	27.083100	4.221530	60.494966	2.326250	0.028252	0.277646	0.062300	0.004789	0.002688	0.171606	0.000829	0.016702	0.009490	0.002659	0.026589
18-Mar-2028	0.024416	17.435900	27.351300	4.263330	61.093835	2.349280	0.028532	0.280395	0.062917	0.004836	0.002714	0.173305	0.000837	0.016868	0.009584	0.002685	0.026852
19-Mar-2028	0.024416	17.608200	27.621600	4.305470	61.697601	2.372500	0.028814	0.283166	0.063539	0.004884	0.002741	0.175018	0.000846	0.017034	0.009679	0.002712	0.027117
20-Mar-2028	0.024416	17.786600	27.901300	4.349070	62.322610	2.396530	0.029106	0.286034	0.064182	0.004934	0.002769	0.176790	0.000854	0.017207	0.009777	0.002739	0.027392
21-Mar-2028	0.024416	17.895400	28.072100	4.375690	62.703905	2.411190	0.029284	0.287785	0.064575	0.004964	0.002786	0.177872	0.000859	0.017312	0.009837	0.002756	0.027560
22-Mar-2028	0.024416	18.080600	28.362600	4.420960	63.352771	2.436140	0.029587	0.290762	0.065243	0.005015	0.002815	0.179713	0.000868	0.017491	0.009939	0.002784	0.027845
23-Mar-2028	0.024416	18.276200	28.669500	4.468810	64.038231	2.462510	0.029907	0.293909	0.065949	0.005070	0.002845	0.181658	0.000878	0.017681	0.010046	0.002815	0.028146
24-Mar-2028	0.024416	18.480200	28.989500	4.518680	64.752984	2.489990	0.030241	0.297189	0.066685	0.005126	0.002877	0.183685	0.000888	0.017878	0.010158	0.002846	0.028460
25-Mar-2028	0.024416	18.690600	29.319600	4.570130	65.490224	2.518340	0.030585	0.300573	0.067445	0.005184	0.002910	0.185776	0.000898	0.018082	0.010274	0.002878	0.028784
26-Mar-2028	0.024416	18.906000	29.657400	4.622790	66.244931	2.547360	0.030938	0.304036	0.068222	0.005244	0.002943	0.187917	0.000908	0.018290	0.010392	0.002912	0.029116
27-Mar-2028	0.024416	19.127400	30.004600	4.676920	67.020674	2.577180	0.031300	0.307596	0.069020	0.005306	0.002978	0.190117	0.000919	0.018504	0.010514	0.002946	0.029457
28-Mar-2028	0.024416	19.353300	30.359100	4.732160	67.812225	2.607630	0.031670	0.311229	0.069836	0.005368	0.003013	0.192363	0.000929	0.018723	0.010638	0.002980	0.029805
29-Mar-2028	0.024416	19.581500	30.717100	4.787970	68.611866	2.638380	0.032043	0.314900	0.070659	0.005432	0.003048	0.194632	0.000940	0.018943	0.010764	0.003016	0.030156
30-Mar-2028	0.024416	19.816200	31.085200	4.845340	69.434162	2.669990	0.032427	0.318673	0.071506	0.005497	0.003085	0.196964	0.000952	0.019170	0.010893	0.003052	0.030518
31-Mar-2028	0.024416	20.060400	31.468300	4.905060	70.289856	2.702900	0.032827	0.322601	0.072387	0.005564	0.003123	0.199391	0.000963	0.019407	0.011027	0.003089	0.030894
1-Apr-2028	0.024416	20.309900	31.859700	4.966070	71.164097	2.736520	0.033235	0.326613	0.073288	0.005634	0.003162	0.201871	0.000975	0.019648	0.011164	0.003128	0.031278
2-Apr-2028	0.024416	20.467400	32.106800	5.004580	71.715958	2.757740	0.033493	0.329146	0.073856	0.005677	0.003186	0.203437	0.000983	0.019800	0.011251	0.003152	0.031521
3-Apr-2028	0.024416	20.527200	32.200600	5.019210	71.925525	2.765800	0.033591	0.330108	0.074072	0.005694	0.003195	0.204031	0.000986	0.019858	0.011283	0.003161	0.031613
4-Apr-2028	0.024416	20.554800	32.243900	5.025950	72.022198	2.769520	0.033636	0.330552	0.074171	0.005702	0.003200	0.204306	0.000987	0.019885	0.011299	0.003166	0.031655
5-Apr-2028	0.024416	20.569000	32.266100	5.029410	72.071903	2.771420	0.033659	0.330779	0.074222	0.005705	0.003202	0.204446	0.000988	0.019899	0.011306	0.003168	0.031677
6-Apr-2028	0.024416	20.576800	32.278300	5.031330	72.099287	2.772480	0.033672	0.330905	0.074251	0.005708	0.003203	0.204524	0.000988	0.019906	0.011311	0.003169	0.031689
7-Apr-2028	0.024416	20.583000	32.288100	5.032840	72.120986	2.773310	0.033682	0.331005	0.074273	0.005709	0.003204	0.204586	0.000988	0.019912	0.011314	0.003170	0.031699

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Apr-2028	0.024416	20.590700	32.300100	5.034730	72.147996	2.774350	0.033695	0.331129	0.074301	0.005712	0.003205	0.204662	0.000989	0.019920	0.011318	0.003171	0.031711
9-Apr-2028	0.024416	20.600600	32.315600	5.037140	72.182641	2.775680	0.033711	0.331287	0.074336	0.005714	0.003207	0.204760	0.000989	0.019929	0.011324	0.003173	0.031726
10-Apr-2028	0.024416	20.611900	32.333400	5.039900	72.222223	2.777200	0.033729	0.331469	0.074377	0.005717	0.003209	0.204873	0.000990	0.019940	0.011330	0.003174	0.031743
11-Apr-2028	0.024416	20.623900	32.352200	5.042830	72.264252	2.778820	0.033749	0.331662	0.074421	0.005721	0.003210	0.204992	0.000990	0.019952	0.011337	0.003176	0.031762
12-Apr-2028	0.024416	20.636200	32.371500	5.045840	72.307361	2.780480	0.033769	0.331860	0.074465	0.005724	0.003212	0.205114	0.000991	0.019964	0.011343	0.003178	0.031781
13-Apr-2028	0.024416	20.648500	32.390700	5.048850	72.350469	2.782130	0.033789	0.332058	0.074509	0.005728	0.003214	0.205236	0.000992	0.019976	0.011350	0.003180	0.031800
14-Apr-2028	0.024416	20.660500	32.409700	5.051800	72.392581	2.783760	0.033809	0.332252	0.074553	0.005731	0.003216	0.205356	0.000992	0.019987	0.011357	0.003182	0.031818
15-Apr-2028	0.024416	20.672200	32.427900	5.054640	72.433491	2.785330	0.033828	0.332439	0.074595	0.005734	0.003218	0.205472	0.000993	0.019999	0.011363	0.003184	0.031836
16-Apr-2028	0.024416	20.683300	32.445400	5.057360	72.472409	2.786820	0.033846	0.332617	0.074635	0.005737	0.003220	0.205582	0.000993	0.020009	0.011369	0.003185	0.031853
17-Apr-2028	0.024416	20.693800	32.461900	5.059940	72.509252	2.788240	0.033863	0.332787	0.074673	0.005740	0.003221	0.205687	0.000994	0.020019	0.011375	0.003187	0.031869
18-Apr-2028	0.024416	20.703800	32.477500	5.062370	72.544228	2.789580	0.033880	0.332947	0.074709	0.005743	0.003223	0.205786	0.000994	0.020029	0.011381	0.003188	0.031885
19-Apr-2028	0.024416	20.713100	32.492100	5.064650	72.576839	2.790840	0.033895	0.333097	0.074743	0.005745	0.003224	0.205879	0.000995	0.020038	0.011386	0.003190	0.031899
20-Apr-2028	0.024416	20.721800	32.505800	5.066790	72.607376	2.792020	0.033909	0.333237	0.074774	0.005748	0.003226	0.205966	0.000995	0.020047	0.011390	0.003191	0.031913
21-Apr-2028	0.024416	20.730000	32.518600	5.068780	72.636046	2.793120	0.033922	0.333368	0.074803	0.005750	0.003227	0.206046	0.000996	0.020054	0.011395	0.003193	0.031925
22-Apr-2028	0.024416	20.737500	32.530500	5.070620	72.662351	2.794130	0.033935	0.333490	0.074831	0.005752	0.003228	0.206121	0.000996	0.020062	0.011399	0.003194	0.031937
23-Apr-2028	0.024416	20.744500	32.541400	5.072320	72.686830	2.795070	0.033946	0.333602	0.074856	0.005754	0.003229	0.206191	0.000996	0.020068	0.011403	0.003195	0.031947
24-Apr-2028	0.024416	20.750800	32.551400	5.073880	72.708985	2.795930	0.033957	0.333704	0.074879	0.005756	0.003230	0.206254	0.000997	0.020075	0.011406	0.003196	0.031957
25-Apr-2028	0.024416	20.756700	32.560500	5.075300	72.729565	2.796710	0.033966	0.333798	0.074900	0.005758	0.003231	0.206312	0.000997	0.020080	0.011410	0.003197	0.031966
26-Apr-2028	0.024416	20.761900	32.568800	5.076600	72.747903	2.797420	0.033975	0.333883	0.074919	0.005759	0.003232	0.206364	0.000997	0.020085	0.011413	0.003197	0.031974
27-Apr-2028	0.024416	20.766700	32.576300	5.077760	72.764666	2.798070	0.033983	0.333959	0.074936	0.005760	0.003233	0.206412	0.000997	0.020090	0.011415	0.003198	0.031982
28-Apr-2028	0.024416	20.771000	32.583000	5.078820	72.779768	2.798650	0.033990	0.334029	0.074952	0.005762	0.003233	0.206455	0.000998	0.020094	0.011417	0.003199	0.031988
29-Apr-2028	0.024426	20.774400	32.588400	5.079650	72.791676	2.799110	0.033995	0.334084	0.074964	0.005762	0.003234	0.206489	0.000998	0.020097	0.011419	0.003199	0.031994
30-Apr-2028	0.024636	20.768500	32.579000	5.078200	72.770972	2.798310	0.033985	0.333988	0.074942	0.005761	0.003233	0.206429	0.000997	0.020092	0.011416	0.003198	0.031984
1-May-2028	0.025858	20.731100	32.520400	5.069060	72.639946	2.793270	0.033924	0.333387	0.074808	0.005750	0.003227	0.206058	0.000996	0.020056	0.011396	0.003193	0.031927
2-May-2028	0.032069	20.523000	32.193900	5.018170	71.910755	2.765230	0.033584	0.330040	0.074057	0.005693	0.003195	0.203989	0.000986	0.019854	0.011281	0.003161	0.031606
3-May-2028	0.041137	20.263200	31.786400	4.954640	71.000418	2.730220	0.033159	0.325862	0.073119	0.005621	0.003154	0.201407	0.000973	0.019603	0.011138	0.003121	0.031206
4-May-2028	0.050269	19.880500	31.186000	4.861070	69.659495	2.678660	0.032532	0.319707	0.071738	0.005515	0.003095	0.197603	0.000955	0.019233	0.010928	0.003062	0.030617
5-May-2028	0.058569	19.372100	30.388500	4.736760	67.878111	2.610160	0.031700	0.311532	0.069904	0.005374	0.003016	0.192550	0.000930	0.018741	0.010649	0.002983	0.029834
6-May-2028	0.070881	18.945700	29.719700	4.632510	66.384089	2.552710	0.031003	0.304675	0.068365	0.005255	0.002949	0.188312	0.000910	0.018328	0.010414	0.002918	0.029177
7-May-2028	0.079342	18.518400	29.049400	4.528010	64.886790	2.495130	0.030303	0.297803	0.066823	0.005137	0.002883	0.184064	0.000889	0.017915	0.010179	0.002852	0.028519
8-May-2028	0.083060	18.112900	28.413300	4.428870	63.465998	2.440500	0.029640	0.291282	0.065360	0.005024	0.002820	0.180034	0.000870	0.017523	0.009956	0.002789	0.027895
9-May-2028	0.085541	17.872400	28.036000	4.370070	62.623331	2.408090	0.029246	0.287415	0.064492	0.004958	0.002782	0.177644	0.000858	0.017290	0.009824	0.002752	0.027524
10-May-2028	0.134739	17.668900	27.716800	4.320300	61.910239	2.380670	0.028913	0.284142	0.063758	0.004901	0.002750	0.175621	0.000849	0.017093	0.009712	0.002721	0.027211
11-May-2028	0.139758	17.307000	27.149100	4.231820	60.642214	2.331920	0.028321	0.278323	0.062452	0.004801	0.002694	0.172024	0.000831	0.016743	0.009513	0.002665	0.026654
12-May-2028	0.139967	17.151000	26.904400	4.193670	60.095580	2.310890	0.028066	0.275813	0.061889	0.004757	0.002670	0.170473	0.000824	0.016592	0.009428	0.002641	0.026413
13-May-2028	0.144069	16.929500	26.556900	4.139500	59.319423	2.281040	0.027703	0.272251	0.061089	0.004696	0.002635	0.168271	0.000813	0.016378	0.009306	0.002607	0.026072
14-May-2028	0.148438	16.644600	26.110000	4.069850	58.321209	2.242660	0.027237	0.267670	0.060062	0.004617	0.002591	0.165440	0.000799	0.016102	0.009149	0.002563	0.025633
15-May-2028	0.156092	16.347700	25.644200	3.997240	57.280841	2.202650	0.026751	0.262894	0.058990	0.004535	0.002545	0.162488	0.000785	0.015815	0.008986	0.002518	0.025176
16-May-2028	0.157615	16.238000	25.472200	3.970430	56.896517	2.187880	0.026572	0.261131	0.058594	0.004504	0.002528	0.161399	0.000780	0.015709	0.008926	0.002501	0.025007
17-May-2028	0.163426	15.842400	24.851600	3.873700	55.510369	2.134570	0.025924	0.254769	0.057167	0.004394	0.002466	0.157466	0.000761	0.015326	0.008708	0.002440	0.024398
18-May-2028	0.169344	15.658400	24.563000	3.828710	54.865653	2.109790	0.025623	0.251811	0.056503	0.004343	0.002438	0.155638	0.000752	0.015148	0.008607	0.002411	0.024115
19-May-2028	0.206179	14.327200	22.474800	3.503220	50.201278	1.930420	0.023445	0.230403	0.051699	0.003974	0.002230	0.142406	0.000688	0.013860	0.007875	0.002206	0.022065
20-May-2028	0.220013	13.915700	21.829200	3.402590	48.759369	1.874970	0.022772	0.223785	0.050214	0.003860	0.002166	0.138316	0.000668	0.013462	0.007649	0.002143	0.021431
21-May-2028	0.241955	13.445300	21.091300	3.287570	47.111127	1.811590	0.022002	0.216220	0.048517	0.003730	0.002093	0.133640	0.000646	0.013007	0.007391	0.002071	0.020706
22-May-2028	0.273470	12.544400	19.678200	3.067300	43.954508	1.690210	0.020528	0.201733	0.045266	0.003480	0.001953	0.124686	0.000602	0.012136	0.006895	0.001932	0.019319
23-May-2028	0.307032	11.610200	18.212600	2.838860	40.681095	1.564340	0.018999	0.186709	0.041895	0.003220	0.001807	0.115400	0.000558	0.011232	0.006382	0.001788	0.017880
24-May-2028	0.357787	10.483600	16.445300	2.563390	36.733589	1.412540	0.017155	0.168591	0.037830	0.002908	0.001632	0.104202	0.000503	0.010142	0.005763	0.001615	0.016145
25-May-2028	0.394665	9.905470	15.538500	2.422030	34.707878	1.334640	0.016209	0.159295	0.035744	0.002748	0.001542	0.098456	0.000476	0.009583	0.005445	0.001525	0.015255
26-May-2028	0.428881	9.475820	14.864500	2.316980	33.202446	1.276750	0.015506	0.152385	0.034193	0.002628	0.001475	0.094185	0.000455	0.009167	0.005209	0.001459	0.014593
27-May-2028	0.462973	9.586090	15.037500	2.343940	33.588812	1.291610	0.015687	0.154159	0.034591	0.002659	0.001492	0.095281	0.000460	0.009274	0.005269	0.001476	0.014763
28-May-2028	0.485617	10.620000	16.659400	2.596750	37.211557	1.430920	0.017379	0.170786	0.038322	0.002946	0.001653	0.105558	0.000510	0.010274	0.005838	0.001636	0.016355

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
29-May-2028	0.521996	10.351300	16.237800	2.531040	36.270019	1.394710	0.016939	0.166464	0.037352	0.002871	0.001611	0.102887	0.000497	0.010014	0.005690	0.001594	0.015941
30-May-2028	0.523752	10.532300	16.521800	2.575310	36.904280	1.419110	0.017235	0.169376	0.038006	0.002922	0.001640	0.104687	0.000506	0.010189	0.005789	0.001622	0.016220
31-May-2028	0.537991	10.407200	16.325600	2.544720	36.465935	1.402250	0.017030	0.167364	0.037554	0.002887	0.001620	0.103443	0.000500	0.010068	0.005721	0.001603	0.016028
1-Jun-2028	0.696138	9.970440	15.640400	2.437920	34.935543	1.343400	0.016316	0.160339	0.035978	0.002766	0.001552	0.099102	0.000479	0.009646	0.005481	0.001535	0.015355
2-Jun-2028	0.738643	9.909730	15.545200	2.423070	34.722798	1.335220	0.016216	0.159363	0.035759	0.002749	0.001543	0.098498	0.000476	0.009587	0.005447	0.001526	0.015261
3-Jun-2028	0.810021	9.833540	15.425600	2.404440	34.455833	1.324950	0.016092	0.158138	0.035484	0.002728	0.001531	0.097741	0.000472	0.009513	0.005405	0.001514	0.015144
4-Jun-2028	0.836406	9.326190	14.629800	2.280390	32.678142	1.256590	0.015261	0.149979	0.033653	0.002587	0.001452	0.092698	0.000448	0.009022	0.005126	0.001436	0.014363
5-Jun-2028	0.831083	9.189140	14.414800	2.246880	32.197934	1.238130	0.015037	0.147775	0.033159	0.002549	0.001430	0.091336	0.000441	0.008890	0.005051	0.001415	0.014152
6-Jun-2028	0.865837	8.923710	13.985600	2.185840	31.283793	1.200030	0.014586	0.143341	0.032387	0.002472	0.001396	0.088995	0.000428	0.008649	0.004903	0.001375	0.013749
7-Jun-2028	0.909026	8.773000	13.720000	2.161830	30.808597	1.174730	0.014303	0.140551	0.032495	0.002423	0.001396	0.088477	0.000419	0.008558	0.004815	0.001354	0.013537
8-Jun-2028	1.065657	8.345130	12.935500	2.089570	29.442639	1.094860	0.013456	0.132170	0.032599	0.002274	0.001390	0.086682	0.000393	0.008283	0.004563	0.001293	0.012929
9-Jun-2028	1.257513	7.801370	11.879400	2.014240	27.774661	0.980146	0.012297	0.120706	0.033580	0.002066	0.001413	0.085618	0.000356	0.008008	0.004235	0.001218	0.012182
10-Jun-2028	1.459870	7.743060	11.694100	2.026830	27.680907	0.952769	0.012073	0.118446	0.034699	0.002022	0.001454	0.087030	0.000348	0.008067	0.004189	0.001213	0.012130
11-Jun-2028	2.033823	7.550820	11.276300	2.013280	27.145085	0.902637	0.011598	0.113713	0.035686	0.001934	0.001486	0.087604	0.000333	0.008028	0.004067	0.001188	0.011881
12-Jun-2028	2.670970	7.500040	11.143100	2.016200	27.030311	0.884497	0.011435	0.112055	0.036233	0.001904	0.001507	0.088221	0.000327	0.008045	0.004031	0.001182	0.011819
13-Jun-2028	3.101570	7.467190	11.067800	2.014860	26.942767	0.875094	0.011345	0.111118	0.036424	0.001888	0.001515	0.088396	0.000325	0.008043	0.004009	0.001178	0.011775
14-Jun-2028	3.191390	7.406910	10.970300	2.000620	26.733607	0.866352	0.011236	0.109998	0.036186	0.001871	0.001507	0.087851	0.000322	0.007987	0.003976	0.001168	0.011677
15-Jun-2028	3.193800	7.330320	10.838900	1.984860	26.477463	0.853786	0.011094	0.108565	0.036043	0.001848	0.001500	0.087347	0.000317	0.007927	0.003932	0.001156	0.011561
16-Jun-2028	3.138630	7.255840	10.720300	1.966730	26.216827	0.843433	0.010965	0.107250	0.035731	0.001828	0.001489	0.086649	0.000314	0.007857	0.003891	0.001144	0.011441
17-Jun-2028	3.080863	7.115040	10.487800	1.935150	25.735203	0.822185	0.010716	0.104745	0.035330	0.001787	0.001473	0.085518	0.000306	0.007735	0.003812	0.001122	0.011224
18-Jun-2028	2.989023	6.948450	10.200600	1.901240	25.179586	0.794626	0.010409	0.101661	0.035052	0.001735	0.001460	0.084460	0.000297	0.007606	0.003717	0.001097	0.010974
19-Jun-2028	2.830830	6.839080	10.006800	1.880170	24.819723	0.775577	0.010200	0.099551	0.034920	0.001701	0.001454	0.083910	0.000291	0.007529	0.003654	0.001081	0.010808
20-Jun-2028	2.699497	6.706100	9.778680	1.852310	24.372944	0.753924	0.009954	0.097061	0.034615	0.001662	0.001442	0.083073	0.000283	0.007424	0.003579	0.001060	0.010602
21-Jun-2028	2.625737	6.580820	9.562590	1.826330	23.953134	0.733406	0.009725	0.094747	0.034370	0.001626	0.001432	0.082339	0.000276	0.007328	0.003508	0.001041	0.010410
22-Jun-2028	2.589933	6.468610	9.368990	1.802920	23.576544	0.715104	0.009522	0.092694	0.034151	0.001594	0.001422	0.081704	0.000270	0.007242	0.003444	0.001024	0.010239
23-Jun-2028	2.577957	6.336790	9.137570	1.776760	23.139662	0.692727	0.009278	0.090244	0.033970	0.001555	0.001413	0.081035	0.000262	0.007146	0.003369	0.001004	0.010040
24-Jun-2028	2.636470	6.235170	8.955560	1.757730	22.807552	0.674753	0.009088	0.088334	0.033917	0.001524	0.001409	0.080602	0.000256	0.007077	0.003311	0.000989	0.009891
25-Jun-2028	2.801263	6.137590	8.769740	1.742490	22.501136	0.655359	0.008894	0.086393	0.034049	0.001492	0.001410	0.080466	0.000250	0.007025	0.003253	0.000975	0.009752
26-Jun-2028	3.176577	5.990930	8.501490	1.716850	22.029341	0.628204	0.008611	0.083579	0.034074	0.001444	0.001407	0.079952	0.000241	0.006933	0.003168	0.000954	0.009541
27-Jun-2028	3.876433	5.903360	8.320230	1.707730	21.773122	0.607845	0.008424	0.081720	0.034511	0.001411	0.001416	0.080147	0.000235	0.006907	0.003114	0.000943	0.009430
28-Jun-2028	4.631777	5.856450	8.246290	1.695040	21.603730	0.601947	0.008350	0.080930	0.034236	0.001403	0.001407	0.079811	0.000232	0.006862	0.003089	0.000935	0.009347
29-Jun-2028	5.104597	5.773470	8.107950	1.676200	21.318946	0.589431	0.008205	0.079473	0.033978	0.001382	0.001397	0.079251	0.000228	0.006792	0.003043	0.000922	0.009215
30-Jun-2028	5.599950	5.634230	7.879340	1.644180	20.839406	0.568849	0.007962	0.077055	0.033512	0.001344	0.001380	0.078154	0.000221	0.006670	0.002966	0.000900	0.008997
1-Jul-2028	6.747627	5.491100	7.664090	1.607400	20.330550	0.551531	0.007746	0.074868	0.032819	0.001308	0.001352	0.076553	0.000215	0.006514	0.002887	0.000878	0.008776
2-Jul-2028	7.040553	5.710640	8.026200	1.650270	21.055280	0.587743	0.008170	0.078864	0.032993	0.001405	0.001367	0.079114	0.000227	0.006702	0.003015	0.000906	0.009064
3-Jul-2028	7.773737	5.775390	8.130680	1.660770	21.260200	0.598819	0.008304	0.080138	0.033055	0.001442	0.001369	0.080127	0.000230	0.006768	0.003056	0.000915	0.009147
4-Jul-2028	8.934677	5.804080	8.175790	1.665020	21.349340	0.603856	0.008366	0.080721	0.033060	0.001462	0.001370	0.080711	0.000232	0.006798	0.003074	0.000918	0.009179
5-Jul-2028	10.109867	5.832040	8.223420	1.669140	21.436122	0.609065	0.008424	0.081267	0.033004	0.001479	0.001370	0.081102	0.000233	0.006821	0.003092	0.000921	0.009212
6-Jul-2028	10.980633	5.848070	8.250420	1.671940	21.487680	0.611840	0.008455	0.081571	0.033014	0.001486	0.001370	0.081294	0.000234	0.006835	0.003102	0.000923	0.009234
7-Jul-2028	11.700833	5.857440	8.271830	1.671230	21.508153	0.614837	0.008482	0.081837	0.032911	0.001495	0.001367	0.081355	0.000235	0.006837	0.003109	0.000924	0.009242
8-Jul-2028	12.985300	5.901360	8.355910	1.676610	21.639976	0.624060	0.008572	0.082742	0.032850	0.001516	0.001364	0.081570	0.000238	0.006862	0.003136	0.000930	0.009302
9-Jul-2028	12.857233	5.875400	8.319560	1.668780	21.542910	0.621563	0.008537	0.082397	0.032662	0.001512	0.001357	0.081253	0.000237	0.006831	0.003123	0.000926	0.009259
10-Jul-2028	13.519633	5.894740	8.356080	1.671190	21.601126	0.625554	0.008576	0.082788	0.032630	0.001521	0.001356	0.081365	0.000238	0.006843	0.003135	0.000928	0.009284
11-Jul-2028	12.745133	5.873470	8.332910	1.663090	21.514659	0.624674	0.008552	0.082568	0.032413	0.001518	0.001347	0.080925	0.000238	0.006810	0.003125	0.000925	0.009248
12-Jul-2028	11.841333	5.817260	8.263920	1.643820	21.294949	0.620840	0.008482	0.081903	0.031958	0.001506	0.001329	0.079922	0.000236	0.006732	0.003097	0.000916	0.009156
13-Jul-2028	11.520467	5.826320	8.287590	1.643100	21.314607	0.623908	0.008505	0.082149	0.031868	0.001511	0.001325	0.079800	0.000237	0.006730	0.003103	0.000917	0.009167
14-Jul-2028	11.366733	5.822960	8.299520	1.637210	21.281962	0.626736	0.008516	0.082278	0.031643	0.001514	0.001315	0.079351	0.000238	0.006706	0.003104	0.000916	0.009158
15-Jul-2028	10.841533	5.772470	8.242450	1.618760	21.079911	0.624096	0.008456	0.081715	0.031185	0.001503	0.001296	0.078296	0.000237	0.006630	0.003079	0.000907	0.009075
16-Jul-2028	9.995773	5.734920	8.203760	1.604040	20.925532	0.622821	0.008414	0.081332	0.030797	0.001496	0.001280	0.077416	0.000236	0.006569	0.003061	0.000901	0.009012
17-Jul-2028	10.218300	5.674190	8.133220	1.582560	20.685435	0.619255	0.008339	0.080631	0.030265	0.001483	0.001259	0.076189	0.000234	0.006479	0.003031	0.000891	0.008913
18-Jul-2028	11.402733	5.729890	8.225710	1.594630	20.874222	0.627693	0.008432	0.081548	0.030398	0.001499	0.001264	0.076629	0.000237	0.006527	0.003063	0.000900	0.008997

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19-Jul-2028	11.620333	5.785110	8.313430	1.607760	21.066175	0.635312	0.008520	0.082416	0.030587	0.001515	0.001273	0.077177	0.000240	0.006580	0.003093	0.000908	0.009082
20-Jul-2028	12.327700	5.864460	8.450510	1.623220	21.327977	0.648316	0.008657	0.083775	0.030720	0.001540	0.001278	0.077638	0.000244	0.006642	0.003139	0.000920	0.009201
21-Jul-2028	12.011133	5.906410	8.531440	1.629090	21.456898	0.656733	0.008737	0.084574	0.030697	0.001553	0.001277	0.077666	0.000247	0.006665	0.003164	0.000926	0.009263
22-Jul-2028	13.040867	6.009450	8.699660	1.652030	21.808656	0.671788	0.008906	0.086240	0.031000	0.001583	0.001289	0.078528	0.000252	0.006759	0.003222	0.000942	0.009420
23-Jul-2028	13.553467	6.102720	8.848610	1.674600	22.134495	0.684650	0.009054	0.087690	0.031275	0.001610	0.001303	0.079390	0.000257	0.006843	0.003273	0.000956	0.009563
24-Jul-2028	14.422800	6.133890	8.903630	1.680760	22.237693	0.689903	0.009108	0.088224	0.031305	0.001619	0.001305	0.079544	0.000259	0.006865	0.003291	0.000961	0.009609
25-Jul-2028	13.613800	6.146700	8.937290	1.681200	22.271492	0.694130	0.009140	0.088554	0.031217	0.001625	0.001302	0.079425	0.000260	0.006864	0.003300	0.000963	0.009626
26-Jul-2028	12.848100	6.178150	8.995960	1.685350	22.367112	0.700140	0.009198	0.089133	0.031165	0.001636	0.001300	0.079434	0.000262	0.006879	0.003318	0.000967	0.009671
27-Jul-2028	12.400233	6.189480	9.027210	1.684480	22.391820	0.704098	0.009227	0.089438	0.031031	0.001641	0.001295	0.079215	0.000263	0.006873	0.003326	0.000969	0.009685
28-Jul-2028	12.212100	6.265410	9.163960	1.697770	22.636146	0.717564	0.009363	0.090792	0.031101	0.001665	0.001298	0.079525	0.000268	0.006926	0.003371	0.000980	0.009799
29-Jul-2028	12.010100	6.301110	9.229370	1.704100	22.751355	0.724028	0.009427	0.091430	0.031111	0.001676	0.001298	0.079640	0.000270	0.006948	0.003392	0.000985	0.009852
30-Jul-2028	11.627033	6.295120	9.238220	1.697750	22.710249	0.726554	0.009432	0.091508	0.030865	0.001677	0.001289	0.079110	0.000271	0.006920	0.003391	0.000984	0.009839
31-Jul-2028	12.282700	6.322830	9.289520	1.702480	22.798919	0.731753	0.009482	0.092006	0.030863	0.001685	0.001289	0.079186	0.000272	0.006937	0.003407	0.000988	0.009879
1-Aug-2028	12.664700	6.397450	9.412410	1.719160	23.053934	0.742707	0.009604	0.093211	0.031057	0.001707	0.001298	0.079780	0.000276	0.007002	0.003449	0.000999	0.009993
2-Aug-2028	13.570433	6.477780	9.543370	1.737640	23.330618	0.754300	0.009734	0.094490	0.031280	0.001730	0.001308	0.080450	0.000280	0.007072	0.003493	0.001012	0.010116
3-Aug-2028	13.901433	6.615950	9.766270	1.770750	23.811976	0.773672	0.009954	0.096644	0.031677	0.001768	0.001327	0.081662	0.000287	0.007195	0.003569	0.001033	0.010327
4-Aug-2028	14.218000	6.734820	9.962740	1.797310	24.218168	0.791273	0.010147	0.098546	0.031986	0.001802	0.001341	0.082572	0.000293	0.007297	0.003635	0.001051	0.010509
5-Aug-2028	14.415267	6.775940	10.035400	1.805390	24.354118	0.798143	0.010217	0.099230	0.032037	0.001814	0.001343	0.082754	0.000296	0.007326	0.003659	0.001057	0.010571
6-Aug-2028	15.207900	6.926780	10.289200	1.838750	24.868142	0.821038	0.010460	0.101620	0.032354	0.001856	0.001359	0.083769	0.000304	0.007448	0.003743	0.001080	0.010801
7-Aug-2028	15.663867	6.916430	10.269100	1.838880	24.842834	0.818628	0.010434	0.101350	0.032290	0.001851	0.001360	0.083753	0.000303	0.007435	0.003735	0.001078	0.010784
8-Aug-2028	15.739733	6.947300	10.322800	1.845250	24.946148	0.823620	0.010484	0.101846	0.032327	0.001860	0.001362	0.083910	0.000305	0.007457	0.003752	0.001083	0.010830
9-Aug-2028	16.120200	7.045990	10.491000	1.866710	25.280949	0.838974	0.010644	0.103415	0.032497	0.001889	0.001372	0.084548	0.000310	0.007533	0.003807	0.001098	0.010979
10-Aug-2028	16.380333	7.103030	10.590800	1.878130	25.470405	0.848365	0.010740	0.104352	0.032571	0.001906	0.001376	0.084842	0.000314	0.007574	0.003839	0.001106	0.011065
11-Aug-2028	16.520967	7.129690	10.640700	1.882690	25.555753	0.853303	0.010786	0.104808	0.032560	0.001914	0.001376	0.084886	0.000315	0.007589	0.003855	0.001110	0.011104
12-Aug-2028	16.903233	7.244870	10.841800	1.905060	25.935477	0.872326	0.010980	0.106731	0.032747	0.001947	0.001384	0.085473	0.000322	0.007677	0.003921	0.001128	0.011278
13-Aug-2028	16.981767	7.298310	10.940300	1.914630	26.108326	0.881930	0.011071	0.107628	0.032760	0.001963	0.001385	0.085600	0.000325	0.007709	0.003952	0.001136	0.011358
14-Aug-2028	16.079533	7.273450	10.914800	1.905620	26.009148	0.880856	0.011038	0.107310	0.032479	0.001957	0.001375	0.084988	0.000325	0.007665	0.003939	0.001132	0.011316
15-Aug-2028	15.594200	7.301950	10.967900	1.910670	26.101108	0.886074	0.011086	0.107785	0.032466	0.001965	0.001376	0.085040	0.000326	0.007681	0.003955	0.001136	0.011357
16-Aug-2028	15.415833	7.369110	11.085400	1.924790	26.326953	0.896941	0.011194	0.108846	0.032539	0.001984	0.001381	0.085374	0.000330	0.007728	0.003993	0.001146	0.011458
17-Aug-2028	15.507300	7.447600	11.230800	1.938580	26.579730	0.911176	0.011328	0.110172	0.032553	0.002007	0.001382	0.085535	0.000335	0.007774	0.004038	0.001158	0.011576
18-Aug-2028	15.134767	7.523280	11.371100	1.951360	26.821331	0.925022	0.011459	0.111475	0.032576	0.002029	0.001384	0.085697	0.000340	0.007822	0.004082	0.001169	0.011689
19-Aug-2028	14.217533	7.438400	11.253300	1.927060	26.509318	0.916330	0.011333	0.110256	0.032058	0.002008	0.001363	0.084454	0.000336	0.007718	0.004037	0.001155	0.011554
20-Aug-2028	13.935100	7.404930	11.197800	1.921060	26.401035	0.911068	0.011272	0.109642	0.031906	0.001998	0.001360	0.084219	0.000335	0.007683	0.004017	0.001150	0.011501
21-Aug-2028	12.698833	7.360740	11.132700	1.910330	26.246507	0.905697	0.011200	0.108928	0.031637	0.001986	0.001351	0.083688	0.000333	0.007629	0.003991	0.001143	0.011430
22-Aug-2028	11.306267	7.343980	11.108900	1.906590	26.189256	0.903688	0.011169	0.108626	0.031501	0.001982	0.001348	0.083467	0.000332	0.007606	0.003981	0.001140	0.011403
23-Aug-2028	9.832680	7.378060	11.165000	1.915060	26.309233	0.908522	0.011219	0.109109	0.031553	0.001992	0.001352	0.083744	0.000334	0.007631	0.004000	0.001145	0.011453
24-Aug-2028	9.475020	7.411740	11.225200	1.922000	26.421911	0.914173	0.011273	0.109630	0.031555	0.002002	0.001354	0.083899	0.000336	0.007652	0.004018	0.001150	0.011503
25-Aug-2028	9.531600	7.469720	11.322100	1.935310	26.621497	0.922801	0.011363	0.110512	0.031662	0.002019	0.001361	0.084331	0.000339	0.007697	0.004050	0.001159	0.011590
26-Aug-2028	9.539197	7.547090	11.454200	1.952850	26.886920	0.934676	0.011483	0.111681	0.031761	0.002041	0.001368	0.084827	0.000343	0.007753	0.004092	0.001171	0.011706
27-Aug-2028	9.202917	7.591700	11.539400	1.959790	27.026890	0.943294	0.011560	0.112450	0.031727	0.002055	0.001367	0.084884	0.000346	0.007777	0.004119	0.001177	0.011771
28-Aug-2028	8.742840	7.610990	11.566400	1.966640	27.103266	0.945028	0.011582	0.112646	0.031779	0.002060	0.001373	0.085170	0.000347	0.007794	0.004128	0.001180	0.011800
29-Aug-2028	9.422803	7.653830	11.635500	1.977830	27.256317	0.950785	0.011643	0.113238	0.031863	0.002072	0.001379	0.085544	0.000349	0.007828	0.004150	0.001186	0.011865
30-Aug-2028	9.871960	7.660900	11.648400	1.979850	27.282290	0.951869	0.011651	0.113309	0.031835	0.002074	0.001379	0.085563	0.000349	0.007829	0.004153	0.001187	0.011875
31-Aug-2028	9.459873	7.634180	11.611500	1.973220	27.188267	0.948932	0.011606	0.112863	0.031628	0.002067	0.001373	0.085175	0.000348	0.007792	0.004138	0.001183	0.011832
1-Sep-2028	8.178837	7.688350	11.701200	1.985930	27.375870	0.956808	0.011688	0.113667	0.031737	0.002082	0.001380	0.085599	0.000351	0.007835	0.004167	0.001191	0.011913
2-Sep-2028	7.239927	7.731780	11.776800	1.995090	27.522035	0.963801	0.011758	0.114344	0.031776	0.002095	0.001383	0.085846	0.000354	0.007865	0.004192	0.001198	0.011978
3-Sep-2028	6.378387	7.633740	11.636500	1.967460	27.163449	0.953157	0.011613	0.112951	0.031264	0.002069	0.001361	0.084519	0.000350	0.007754	0.004140	0.001182	0.011824
4-Sep-2028	6.924330	7.698970	11.745000	1.982090	27.386575	0.962863	0.011717	0.113963	0.031414	0.002088	0.001368	0.085009	0.000353	0.007808	0.004176	0.001192	0.011923
5-Sep-2028	6.948337	7.635450	11.652900	1.964550	27.155736	0.955736	0.011622	0.113047	0.031092	0.002072	0.001355	0.084184	0.000350	0.007738	0.004142	0.001182	0.011823
6-Sep-2028	7.166997	7.706940	11.774000	1.979930	27.397581	0.966799	0.011737	0.114183	0.031228	0.002093	0.001361	0.084672	0.000354	0.007795	0.004182	0.001193	0.011931
7-Sep-2028	5.942103	7.740130	11.832600	1.986380	27.507017	0.972376	0.011793	0.114730	0.031258	0.002103	0.001363	0.084839	0.000356	0.007818	0.004201	0.001198	0.011980

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Sep-2028	5.016780	7.712080	11.801600	1.976020	27.394314	0.970988	0.011758	0.114406	0.030998	0.002097	0.001353	0.084229	0.000355	0.007775	0.004187	0.001193	0.011934
9-Sep-2028	4.854653	7.765530	11.893500	1.987030	27.573118	0.979534	0.011846	0.115273	0.031083	0.002113	0.001357	0.084568	0.000358	0.007816	0.004218	0.001201	0.012014
10-Sep-2028	5.079153	7.781140	11.920200	1.990270	27.625438	0.982201	0.011872	0.115525	0.031109	0.002118	0.001358	0.084670	0.000359	0.007829	0.004227	0.001204	0.012038
11-Sep-2028	5.151640	7.770810	11.921200	1.982940	27.569459	0.983773	0.011868	0.115510	0.030867	0.002118	0.001348	0.084134	0.000360	0.007798	0.004223	0.001202	0.012018
12-Sep-2028	4.283547	7.715090	11.854100	1.963230	27.349161	0.980129	0.011797	0.114850	0.030442	0.002105	0.001329	0.083059	0.000358	0.007722	0.004196	0.001193	0.011928
13-Sep-2028	4.276353	7.761710	11.935400	1.972440	27.503498	0.987816	0.011875	0.115619	0.030504	0.002119	0.001332	0.083322	0.000361	0.007757	0.004223	0.001200	0.011998
14-Sep-2028	4.940913	7.825970	12.043200	1.986430	27.721566	0.997596	0.011979	0.116642	0.030642	0.002138	0.001338	0.083791	0.000364	0.007810	0.004259	0.001209	0.012095
15-Sep-2028	5.049720	7.798970	12.011800	1.976340	27.612596	0.996089	0.011946	0.116341	0.030429	0.002132	0.001329	0.083241	0.000363	0.007773	0.004246	0.001205	0.012051
16-Sep-2028	4.401833	7.873730	12.143400	1.990390	27.857130	1.008690	0.012074	0.117605	0.030535	0.002155	0.001333	0.083624	0.000368	0.007829	0.004290	0.001216	0.012163
17-Sep-2028	3.201027	7.901640	12.189500	1.996660	27.952641	1.012820	0.012118	0.118043	0.030602	0.002164	0.001336	0.083848	0.000369	0.007853	0.004305	0.001221	0.012205
18-Sep-2028	2.853907	7.848820	12.124500	1.978330	27.745266	1.009110	0.012051	0.117413	0.030224	0.002151	0.001319	0.082856	0.000367	0.007783	0.004279	0.001212	0.012121
19-Sep-2028	3.080350	7.930750	12.266700	1.994230	28.015322	1.022550	0.012190	0.118789	0.030374	0.002176	0.001325	0.083309	0.000372	0.007848	0.004327	0.001224	0.012245
20-Sep-2028	3.766067	7.894480	12.220600	1.982130	27.874928	1.019720	0.012143	0.118342	0.030129	0.002167	0.001313	0.082661	0.000371	0.007801	0.004309	0.001219	0.012187
21-Sep-2028	4.347830	8.044910	12.472800	2.013860	28.381216	1.042780	0.012391	0.120789	0.030504	0.002210	0.001329	0.083724	0.000379	0.007930	0.004394	0.001242	0.012416
22-Sep-2028	4.508113	8.065670	12.519300	2.014490	28.435648	1.048210	0.012436	0.121254	0.030470	0.002218	0.001326	0.083626	0.000381	0.007936	0.004408	0.001245	0.012446
23-Sep-2028	4.533477	8.141590	12.648600	2.029660	28.687690	1.060230	0.012563	0.122511	0.030616	0.002240	0.001331	0.084038	0.000385	0.007999	0.004452	0.001256	0.012562
24-Sep-2028	4.351520	8.152100	12.684800	2.026000	28.698862	1.065330	0.012597	0.122870	0.030455	0.002245	0.001323	0.083617	0.000386	0.007990	0.004461	0.001257	0.012575
25-Sep-2028	4.316257	8.194330	12.760700	2.033370	28.834660	1.072750	0.012671	0.123607	0.030509	0.002258	0.001324	0.083782	0.000389	0.008021	0.004486	0.001264	0.012638
26-Sep-2028	4.416077	8.265170	12.888700	2.045950	29.063352	1.085230	0.012794	0.124836	0.030582	0.002279	0.001327	0.084033	0.000393	0.008070	0.004528	0.001274	0.012745
27-Sep-2028	4.225980	8.361650	13.049000	2.067100	29.391358	1.099680	0.012951	0.126378	0.030827	0.002307	0.001338	0.084752	0.000398	0.008153	0.004582	0.001289	0.012892
28-Sep-2028	3.952817	8.362810	13.056500	2.065670	29.388366	1.100890	0.012957	0.126447	0.030768	0.002308	0.001335	0.084612	0.000398	0.008148	0.004584	0.001289	0.012892
29-Sep-2028	3.661463	8.380250	13.090300	2.068250	29.442538	1.104360	0.012988	0.126761	0.030751	0.002313	0.001335	0.084618	0.000400	0.008157	0.004594	0.001292	0.012917
30-Sep-2028	3.006180	8.404870	13.137300	2.071770	29.518509	1.109180	0.013033	0.127213	0.030751	0.002321	0.001334	0.084640	0.000401	0.008172	0.004609	0.001295	0.012954
1-Oct-2028	2.850917	8.490300	13.281000	2.089820	29.806158	1.122340	0.013174	0.128599	0.030950	0.002346	0.001343	0.085232	0.000406	0.008244	0.004657	0.001308	0.013083
2-Oct-2028	2.577490	8.401030	13.143700	2.067160	29.489937	1.110970	0.013037	0.127269	0.030600	0.002322	0.001327	0.084275	0.000402	0.008154	0.004609	0.001295	0.012945
3-Oct-2028	2.154573	8.319750	13.025600	2.044360	29.193090	1.101900	0.012919	0.126129	0.030215	0.002300	0.001310	0.083212	0.000398	0.008066	0.004566	0.001282	0.012819
4-Oct-2028	2.099677	8.269130	12.949200	2.031090	29.012046	1.095720	0.012843	0.125389	0.030002	0.002286	0.001301	0.082627	0.000396	0.008014	0.004539	0.001274	0.012741
5-Oct-2028	2.074250	8.192220	12.831800	2.011350	28.738713	1.086080	0.012726	0.124250	0.029689	0.002265	0.001287	0.081777	0.000392	0.007936	0.004497	0.001262	0.012622
6-Oct-2028	1.872147	8.156490	12.777000	2.002270	28.612103	1.081550	0.012671	0.123717	0.029546	0.002255	0.001281	0.081391	0.000391	0.007900	0.004477	0.001257	0.012566
7-Oct-2028	1.883723	8.184570	12.822700	2.008710	28.708739	1.085580	0.012716	0.124157	0.029628	0.002263	0.001284	0.081627	0.000392	0.007926	0.004493	0.001261	0.012609
8-Oct-2028	1.864433	8.099050	12.689500	1.987550	28.408059	1.074370	0.012584	0.122866	0.029309	0.002240	0.001271	0.080753	0.000388	0.007842	0.004446	0.001248	0.012477
9-Oct-2028	1.873157	7.987880	12.515600	1.960250	28.018046	1.059670	0.012411	0.121181	0.028902	0.002209	0.001253	0.079635	0.000383	0.007734	0.004385	0.001231	0.012306
10-Oct-2028	1.802090	7.960340	12.473400	1.953280	27.920576	1.056190	0.012369	0.120770	0.028789	0.002202	0.001248	0.079339	0.000382	0.007706	0.004370	0.001226	0.012263
11-Oct-2028	1.364460	7.906960	12.390100	1.940120	27.733093	1.049150	0.012286	0.119962	0.028593	0.002187	0.001240	0.078800	0.000379	0.007653	0.004341	0.001218	0.012181
12-Oct-2028	0.802250	7.828010	12.266500	1.920730	27.456107	1.038710	0.012163	0.118765	0.028304	0.002165	0.001227	0.078010	0.000375	0.007577	0.004297	0.001206	0.012059
13-Oct-2028	0.596442	7.800840	12.224000	1.914060	27.360797	1.035110	0.012121	0.118353	0.028205	0.002158	0.001223	0.077739	0.000374	0.007550	0.004283	0.001202	0.012017
14-Oct-2028	0.364416	7.741050	12.130200	1.899460	27.151378	1.027140	0.012028	0.117444	0.027990	0.002141	0.001214	0.077147	0.000371	0.007493	0.004250	0.001193	0.011925
15-Oct-2028	0.326628	7.699240	12.064400	1.889330	27.005263	1.021540	0.011963	0.116806	0.027840	0.002129	0.001207	0.076740	0.000369	0.007452	0.004227	0.001186	0.011861
16-Oct-2028	0.350840	7.713820	12.087200	1.892900	27.056371	1.023480	0.011985	0.117028	0.027893	0.002133	0.001210	0.076884	0.000370	0.007466	0.004235	0.001188	0.011883
17-Oct-2028	0.355576	7.797870	12.218900	1.913530	27.351198	1.034630	0.012116	0.118303	0.028197	0.002157	0.001223	0.077722	0.000374	0.007548	0.004281	0.001201	0.012013
18-Oct-2028	0.357298	7.823830	12.259600	1.919900	27.442252	1.038070	0.012156	0.118697	0.028291	0.002164	0.001227	0.077981	0.000375	0.007573	0.004295	0.001205	0.012053
19-Oct-2028	0.361111	7.860980	12.317800	1.929020	27.572571	1.043000	0.012214	0.119260	0.028425	0.002174	0.001233	0.078352	0.000377	0.007609	0.004315	0.001211	0.012110
20-Oct-2028	0.361228	7.899480	12.378100	1.938470	27.707621	1.048110	0.012274	0.119844	0.028564	0.002185	0.001239	0.078736	0.000379	0.007646	0.004337	0.001217	0.012169
21-Oct-2028	0.360867	7.934140	12.432500	1.946980	27.829211	1.052710	0.012328	0.120370	0.028689	0.002194	0.001244	0.079081	0.000380	0.007680	0.004356	0.001222	0.012223
22-Oct-2028	0.361630	7.961900	12.475900	1.953790	27.926572	1.056390	0.012371	0.120791	0.028790	0.002202	0.001248	0.079358	0.000382	0.007707	0.004371	0.001227	0.012265
23-Oct-2028	0.361969	7.998360	12.533100	1.962740	28.054468	1.061230	0.012427	0.121344	0.028922	0.002212	0.001254	0.079721	0.000383	0.007742	0.004391	0.001232	0.012322
24-Oct-2028	0.362191	8.039070	12.596900	1.972730	28.197260	1.066630	0.012491	0.121962	0.029069	0.002223	0.001261	0.080127	0.000385	0.007781	0.004413	0.001238	0.012384
25-Oct-2028	0.362240	8.085960	12.670300	1.984240	28.361742	1.072850	0.012563	0.122673	0.029238	0.002236	0.001268	0.080594	0.000388	0.007827	0.004439	0.001246	0.012457
26-Oct-2028	0.362684	8.152260	12.774200	2.000510	28.594293	1.081650	0.012667	0.123679	0.029478	0.002255	0.001278	0.081255	0.000391	0.007891	0.004475	0.001256	0.012559
27-Oct-2028	0.362523	8.187030	12.828700	2.009040	28.716241	1.086260	0.012721	0.124207	0.029604	0.002264	0.001284	0.081602	0.000392	0.007924	0.004494	0.001261	0.012612
28-Oct-2028	0.362351	8.222560	12.884400	2.017760	28.840868	1.090970	0.012776	0.124746	0.029732	0.002274	0.001289	0.081956	0.000394	0.007959	0.004514	0.001267	0.012667

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
29-Oct-2028	0.362520	8.278500	12.972000	2.031490	29.037090	1.098400	0.012863	0.125594	0.029935	0.002290	0.001298	0.082514	0.000397	0.008013	0.004545	0.001275	0.012753
30-Oct-2028	0.362551	8.314520	13.028500	2.040320	29.163394	1.103180	0.012919	0.126141	0.030065	0.002300	0.001304	0.082873	0.000399	0.008048	0.004564	0.001281	0.012809
31-Oct-2028	0.362598	8.354570	13.091200	2.050150	29.303879	1.108490	0.012981	0.126748	0.030210	0.002311	0.001310	0.083272	0.000400	0.008087	0.004586	0.001287	0.012870
1-Nov-2028	0.362572	8.397620	13.158700	2.060710	29.454861	1.114200	0.013048	0.127402	0.030365	0.002323	0.001317	0.083701	0.000403	0.008128	0.004610	0.001294	0.012937
2-Nov-2028	0.362599	8.443530	13.230600	2.071980	29.615908	1.120290	0.013119	0.128098	0.030531	0.002335	0.001324	0.084158	0.000405	0.008173	0.004635	0.001301	0.013007
3-Nov-2028	0.362607	8.481970	13.290900	2.081410	29.750725	1.125390	0.013179	0.128681	0.030670	0.002346	0.001330	0.084542	0.000407	0.008210	0.004656	0.001307	0.013067
4-Nov-2028	0.362775	8.518640	13.348300	2.090410	29.879352	1.130260	0.013236	0.129237	0.030803	0.002356	0.001336	0.084907	0.000408	0.008245	0.004676	0.001312	0.013123
5-Nov-2028	0.363084	8.562160	13.416500	2.101100	30.032043	1.136030	0.013303	0.129898	0.030960	0.002368	0.001343	0.085341	0.000410	0.008288	0.004700	0.001319	0.013190
6-Nov-2028	0.363436	8.605190	13.483900	2.111660	30.182975	1.141740	0.013370	0.130550	0.031116	0.002380	0.001349	0.085770	0.000412	0.008329	0.004724	0.001326	0.013256
7-Nov-2028	0.363932	8.653200	13.559100	2.123440	30.351366	1.148110	0.013445	0.131279	0.031290	0.002393	0.001357	0.086249	0.000415	0.008376	0.004750	0.001333	0.013330
8-Nov-2028	0.364452	8.698400	13.630000	2.134540	30.509941	1.154100	0.013515	0.131964	0.031453	0.002406	0.001364	0.086700	0.000417	0.008419	0.004775	0.001340	0.013400
9-Nov-2028	0.364919	8.743130	13.700000	2.145520	30.666847	1.160030	0.013585	0.132643	0.031615	0.002418	0.001371	0.087146	0.000419	0.008463	0.004800	0.001347	0.013469
10-Nov-2028	0.365299	8.790680	13.774500	2.157200	30.833678	1.166340	0.013658	0.133364	0.031787	0.002431	0.001378	0.087621	0.000421	0.008509	0.004826	0.001354	0.013542
11-Nov-2028	0.365581	8.839260	13.850700	2.169120	31.004068	1.172790	0.013734	0.134101	0.031963	0.002445	0.001386	0.088105	0.000424	0.008556	0.004852	0.001362	0.013617
12-Nov-2028	0.365744	8.895520	13.938800	2.182930	31.201419	1.180250	0.013821	0.134954	0.032166	0.002460	0.001395	0.088666	0.000426	0.008610	0.004883	0.001370	0.013704
13-Nov-2028	0.365885	8.953180	14.029200	2.197080	31.403666	1.187900	0.013911	0.135829	0.032375	0.002476	0.001404	0.089241	0.000429	0.008666	0.004915	0.001379	0.013793
14-Nov-2028	0.365932	9.010620	14.119200	2.211170	31.605116	1.195520	0.014000	0.136700	0.032582	0.002492	0.001413	0.089813	0.000432	0.008722	0.004946	0.001388	0.013881
15-Nov-2028	0.365993	9.076290	14.222100	2.227290	31.835476	1.204230	0.014102	0.137697	0.032820	0.002510	0.001423	0.090468	0.000435	0.008785	0.004983	0.001398	0.013982
16-Nov-2028	0.366027	9.131880	14.309200	2.240930	32.030454	1.211610	0.014188	0.138540	0.033021	0.002526	0.001432	0.091022	0.000438	0.008839	0.005013	0.001407	0.014068
17-Nov-2028	0.366025	9.202910	14.420500	2.258360	32.279593	1.221030	0.014299	0.139618	0.033278	0.002545	0.001443	0.091730	0.000441	0.008908	0.005052	0.001418	0.014177
18-Nov-2028	0.366051	9.262600	14.514000	2.273010	32.488967	1.228950	0.014392	0.140523	0.033494	0.002562	0.001452	0.092325	0.000444	0.008966	0.005085	0.001427	0.014269
19-Nov-2028	0.366051	9.326150	14.613600	2.288610	32.711893	1.237380	0.014490	0.141487	0.033723	0.002579	0.001462	0.092959	0.000447	0.009027	0.005120	0.001437	0.014367
20-Nov-2028	0.366084	9.369340	14.681200	2.299210	32.863389	1.243110	0.014557	0.142142	0.033880	0.002591	0.001469	0.093389	0.000449	0.009069	0.005143	0.001443	0.014434
21-Nov-2028	0.366098	9.413280	14.750100	2.309990	33.017499	1.248940	0.014626	0.142809	0.034038	0.002603	0.001476	0.093827	0.000451	0.009111	0.005168	0.001450	0.014501
22-Nov-2028	0.366096	9.473970	14.845200	2.324880	33.230359	1.256990	0.014720	0.143730	0.034258	0.002620	0.001486	0.094432	0.000454	0.009170	0.005201	0.001459	0.014595
23-Nov-2028	0.366092	9.529790	14.932700	2.338580	33.426158	1.264400	0.014807	0.144577	0.034460	0.002636	0.001494	0.094989	0.000457	0.009224	0.005231	0.001468	0.014681
24-Nov-2028	0.366092	9.579420	15.010400	2.350760	33.600241	1.270980	0.014884	0.145330	0.034639	0.002649	0.001502	0.095483	0.000459	0.009272	0.005259	0.001476	0.014757
25-Nov-2028	0.366103	9.498640	14.883800	2.330940	33.316915	1.260270	0.014758	0.144104	0.034347	0.002627	0.001489	0.094678	0.000455	0.009194	0.005214	0.001463	0.014633
26-Nov-2028	0.366096	9.547900	14.961000	2.343030	33.489704	1.266800	0.014835	0.144851	0.034525	0.002641	0.001497	0.095169	0.000458	0.009242	0.005241	0.001471	0.014709
27-Nov-2028	0.366091	9.597210	15.038300	2.355130	33.662659	1.273350	0.014911	0.145599	0.034704	0.002654	0.001505	0.095661	0.000460	0.009289	0.005268	0.001478	0.014785
28-Nov-2028	0.366088	9.644540	15.112500	2.366740	33.828652	1.279630	0.014985	0.146318	0.034875	0.002667	0.001512	0.096132	0.000462	0.009335	0.005294	0.001486	0.014858
29-Nov-2028	0.366084	9.691900	15.186700	2.378360	33.994761	1.285910	0.015059	0.147036	0.035046	0.002681	0.001520	0.096604	0.000465	0.009381	0.005320	0.001493	0.014931
30-Nov-2028	0.366082	9.740850	15.263400	2.390370	34.166446	1.292400	0.015135	0.147779	0.035223	0.002694	0.001527	0.097092	0.000467	0.009428	0.005347	0.001501	0.015006
1-Dec-2028	0.366080	9.789480	15.339600	2.402310	34.337044	1.298860	0.015210	0.148516	0.035399	0.002708	0.001535	0.097577	0.000469	0.009476	0.005374	0.001508	0.015081
2-Dec-2028	0.366078	9.839840	15.418500	2.414670	34.513692	1.305540	0.015288	0.149280	0.035581	0.002721	0.001543	0.098079	0.000472	0.009524	0.005402	0.001516	0.015158
3-Dec-2028	0.366077	9.891470	15.499400	2.427340	34.694787	1.312390	0.015369	0.150064	0.035768	0.002736	0.001551	0.098594	0.000474	0.009574	0.005430	0.001524	0.015238
4-Dec-2028	0.366077	9.944930	15.583200	2.440450	34.882263	1.319480	0.015452	0.150875	0.035961	0.002751	0.001559	0.099127	0.000477	0.009626	0.005459	0.001532	0.015320
5-Dec-2028	0.366078	10.000400	15.670100	2.454080	35.076900	1.326840	0.015538	0.151717	0.036162	0.002766	0.001568	0.099680	0.000479	0.009680	0.005490	0.001541	0.015406
6-Dec-2028	0.366079	10.052100	15.751200	2.466770	35.258253	1.333710	0.015618	0.152501	0.036349	0.002780	0.001576	0.100195	0.000482	0.009730	0.005518	0.001549	0.015485
7-Dec-2028	0.366080	10.104700	15.833600	2.479670	35.442717	1.340680	0.015700	0.153299	0.036539	0.002795	0.001585	0.100719	0.000484	0.009781	0.005547	0.001557	0.015566
8-Dec-2028	0.366081	10.159700	15.919600	2.493150	35.635563	1.347970	0.015785	0.154133	0.036737	0.002810	0.001593	0.101267	0.000487	0.009834	0.005577	0.001565	0.015651
9-Dec-2028	0.366081	10.226200	16.024000	2.509490	35.868901	1.356810	0.015889	0.155143	0.036978	0.002828	0.001604	0.101931	0.000490	0.009898	0.005614	0.001575	0.015754
10-Dec-2028	0.366082	10.278000	16.105000	2.522190	36.050544	1.363670	0.015969	0.155928	0.037165	0.002843	0.001612	0.102446	0.000493	0.009948	0.005642	0.001583	0.015833
11-Dec-2028	0.366082	10.334300	16.193300	2.536020	36.248077	1.371150	0.016057	0.156783	0.037369	0.002858	0.001621	0.103008	0.000495	0.010003	0.005673	0.001592	0.015920
12-Dec-2028	0.366083	10.390100	16.280700	2.549690	36.443703	1.378540	0.016143	0.157628	0.037570	0.002874	0.001629	0.103563	0.000498	0.010057	0.005704	0.001601	0.016006
13-Dec-2028	0.366083	10.447700	16.371000	2.563830	36.645759	1.386190	0.016233	0.158502	0.037779	0.002890	0.001638	0.104138	0.000501	0.010113	0.005735	0.001609	0.016095
14-Dec-2028	0.366083	10.509600	16.467900	2.579020	36.862876	1.394400	0.016329	0.159441	0.038003	0.002907	0.001648	0.104755	0.000504	0.010173	0.005769	0.001619	0.016190
15-Dec-2028	0.366083	10.572900	16.567200	2.594560	37.084929	1.402800	0.016427	0.160402	0.038232	0.002924	0.001658	0.105386	0.000507	0.010234	0.005804	0.001629	0.016288
16-Dec-2028	0.366084	10.626500	16.651100	2.607710	37.272920	1.409910	0.016511	0.161215	0.038425	0.002939	0.001666	0.105920	0.000509	0.010286	0.005834	0.001637	0.016370
17-Dec-2028	0.366084	10.665100	16.711700	2.617190	37.408343	1.415040	0.016571	0.161801	0.038565	0.002950	0.001672	0.106305	0.000511	0.010323	0.005855	0.001643	0.016430
18-Dec-2028	0.366084	10.720700	16.798800	2.630830	37.603346	1.422410	0.016657	0.162644	0.038766	0.002965	0.001681	0.106859	0.000514	0.010377	0.005885	0.001652	0.016515

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
19-Dec-2028	0.366084	10.777400	16.887500	2.644730	37.802166	1.429930	0.016745	0.163504	0.038971	0.002981	0.001690	0.107424	0.000517	0.010432	0.005916	0.001660	0.016603
20-Dec-2028	0.366084	10.833300	16.975100	2.658450	37.998247	1.437340	0.016832	0.164352	0.039173	0.002996	0.001699	0.107981	0.000519	0.010486	0.005947	0.001669	0.016689
21-Dec-2028	0.366084	10.882800	17.052700	2.670600	38.171882	1.443910	0.016909	0.165103	0.039352	0.003010	0.001707	0.108475	0.000522	0.010534	0.005974	0.001677	0.016765
22-Dec-2028	0.366084	10.940700	17.143400	2.684810	38.374975	1.451590	0.016999	0.165981	0.039561	0.003026	0.001716	0.109052	0.000524	0.010590	0.006006	0.001685	0.016854
23-Dec-2028	0.366084	11.012800	17.256400	2.702500	38.627857	1.461160	0.017111	0.167075	0.039822	0.003046	0.001727	0.109770	0.000528	0.010660	0.006046	0.001697	0.016965
24-Dec-2028	0.366084	11.059900	17.330300	2.714070	38.793111	1.467420	0.017184	0.167790	0.039993	0.003059	0.001734	0.110240	0.000530	0.010705	0.006071	0.001704	0.017038
25-Dec-2028	0.366084	11.109400	17.407900	2.726220	38.966746	1.473980	0.017261	0.168541	0.040172	0.003073	0.001742	0.110734	0.000532	0.010753	0.006099	0.001711	0.017114
26-Dec-2028	0.366084	11.174400	17.509600	2.742160	39.194692	1.482600	0.017362	0.169527	0.040407	0.003091	0.001752	0.111381	0.000536	0.010816	0.006134	0.001721	0.017214
27-Dec-2028	0.366084	11.244100	17.618900	2.759270	39.439192	1.491850	0.017470	0.170584	0.040659	0.003110	0.001763	0.112076	0.000539	0.010884	0.006173	0.001732	0.017322
28-Dec-2028	0.366084	11.304200	17.713100	2.774020	39.650002	1.499830	0.017564	0.171496	0.040876	0.003126	0.001773	0.112675	0.000542	0.010942	0.006206	0.001741	0.017414
29-Dec-2028	0.366084	11.353500	17.790200	2.786100	39.822849	1.506360	0.017640	0.172244	0.041054	0.003140	0.001780	0.113166	0.000544	0.010989	0.006233	0.001749	0.017490
30-Dec-2028	0.366084	11.417200	17.890200	2.801750	40.046355	1.514820	0.017739	0.173211	0.041285	0.003158	0.001790	0.113802	0.000547	0.011051	0.006268	0.001759	0.017588
31-Dec-2028	0.366084	11.502000	18.023000	2.822560	40.343796	1.526070	0.017871	0.174497	0.041591	0.003181	0.001804	0.114647	0.000551	0.011133	0.006314	0.001772	0.017719
1-Jan-2029	0.366084	11.545600	18.091300	2.833250	40.496687	1.531850	0.017939	0.175158	0.041749	0.003193	0.001810	0.115081	0.000553	0.011175	0.006338	0.001779	0.017786
2-Jan-2029	0.366084	11.606000	18.185900	2.848070	40.708534	1.539870	0.018033	0.176075	0.041967	0.003210	0.001820	0.115683	0.000556	0.011234	0.006371	0.001788	0.017879
3-Jan-2029	0.366084	11.674500	18.293300	2.864890	40.948844	1.548960	0.018139	0.177114	0.042215	0.003229	0.001831	0.116366	0.000560	0.011300	0.006409	0.001798	0.017985
4-Jan-2029	0.366084	11.731800	18.383100	2.878950	41.149821	1.556560	0.018228	0.177984	0.042422	0.003245	0.001840	0.116937	0.000562	0.011356	0.006440	0.001807	0.018073
5-Jan-2029	0.366084	11.785200	18.466700	2.892050	41.337106	1.563640	0.018311	0.178793	0.042615	0.003259	0.001848	0.117469	0.000565	0.011407	0.006470	0.001816	0.018155
6-Jan-2029	0.366084	11.848000	18.565200	2.907460	41.557376	1.571980	0.018409	0.179746	0.042842	0.003277	0.001858	0.118095	0.000568	0.011468	0.006504	0.001825	0.018252
7-Jan-2029	0.366084	11.925000	18.685900	2.926370	41.827517	1.582200	0.018528	0.180915	0.043121	0.003298	0.001870	0.118863	0.000572	0.011543	0.006546	0.001837	0.018371
8-Jan-2029	0.366084	11.964800	18.748300	2.936140	41.967130	1.587480	0.018590	0.181519	0.043265	0.003309	0.001876	0.119260	0.000573	0.011581	0.006568	0.001843	0.018432
9-Jan-2029	0.366084	12.024300	18.841500	2.950740	42.175824	1.595370	0.018683	0.182422	0.043480	0.003326	0.001886	0.119853	0.000576	0.011639	0.006601	0.001852	0.018524
10-Jan-2029	0.366084	12.108400	18.973200	2.971360	42.470735	1.606520	0.018813	0.183697	0.043784	0.003349	0.001899	0.120691	0.000580	0.011720	0.006647	0.001865	0.018653
11-Jan-2029	0.366084	12.163300	19.059200	2.984830	42.663290	1.613800	0.018898	0.184529	0.043982	0.003364	0.001907	0.121238	0.000583	0.011773	0.006677	0.001874	0.018738
12-Jan-2029	0.366084	12.217000	19.143300	2.998010	42.851654	1.620930	0.018982	0.185344	0.044177	0.003379	0.001916	0.121773	0.000586	0.011825	0.006707	0.001882	0.018820
13-Jan-2029	0.366084	12.270400	19.227000	3.011120	43.038981	1.628020	0.019065	0.186155	0.044370	0.003394	0.001924	0.122306	0.000588	0.011877	0.006736	0.001890	0.018903
14-Jan-2029	0.366084	12.355500	19.360400	3.032010	43.337501	1.639320	0.019197	0.187446	0.044678	0.003417	0.001937	0.123154	0.000592	0.011959	0.006783	0.001903	0.019034
15-Jan-2029	0.366084	12.399300	19.429100	3.042750	43.491097	1.645120	0.019265	0.188110	0.044836	0.003429	0.001944	0.123591	0.000594	0.012002	0.006807	0.001910	0.019101
16-Jan-2029	0.366084	12.463100	19.528900	3.058400	43.714852	1.653580	0.019364	0.189077	0.045066	0.003447	0.001954	0.124226	0.000597	0.012063	0.006842	0.001920	0.019200
17-Jan-2029	0.366084	12.522700	19.622300	3.073030	43.923919	1.661490	0.019457	0.189982	0.045282	0.003463	0.001964	0.124820	0.000600	0.012121	0.006874	0.001929	0.019291
18-Jan-2029	0.366084	12.596000	19.737300	3.091030	44.181074	1.671220	0.019571	0.191095	0.045547	0.003484	0.001975	0.125551	0.000604	0.012192	0.006915	0.001940	0.019404
19-Jan-2029	0.366084	12.653200	19.826900	3.105060	44.381677	1.678810	0.019660	0.191962	0.045754	0.003500	0.001984	0.126122	0.000606	0.012247	0.006946	0.001949	0.019492
20-Jan-2029	0.366084	12.722200	19.935000	3.121980	44.623647	1.687960	0.019767	0.193008	0.046003	0.003519	0.001995	0.126809	0.000610	0.012314	0.006984	0.001960	0.019599
21-Jan-2029	0.366084	12.793500	20.046700	3.139490	44.873789	1.697430	0.019878	0.194091	0.046261	0.003538	0.002006	0.127520	0.000613	0.012383	0.007023	0.001971	0.019709
22-Jan-2029	0.366084	12.861500	20.153300	3.156180	45.112315	1.706450	0.019983	0.195123	0.046507	0.003557	0.002017	0.128198	0.000616	0.012449	0.007060	0.001981	0.019813
23-Jan-2029	0.366084	12.926100	20.254500	3.172020	45.338850	1.715020	0.020084	0.196102	0.046741	0.003575	0.002027	0.128841	0.000620	0.012512	0.007096	0.001991	0.019913
24-Jan-2029	0.366084	12.994700	20.361900	3.188850	45.579450	1.724120	0.020190	0.197142	0.046989	0.003594	0.002038	0.129525	0.000623	0.012578	0.007134	0.002002	0.020018
25-Jan-2029	0.366084	13.063300	20.469400	3.205690	45.820092	1.733220	0.020297	0.198183	0.047237	0.003613	0.002048	0.130209	0.000626	0.012644	0.007171	0.002012	0.020124
26-Jan-2029	0.366084	13.127800	20.570500	3.221520	46.046336	1.741780	0.020397	0.199162	0.047470	0.003631	0.002059	0.130852	0.000629	0.012707	0.007207	0.002022	0.020224
27-Jan-2029	0.366084	13.188000	20.664900	3.236290	46.257478	1.749770	0.020491	0.200075	0.047688	0.003647	0.002068	0.131452	0.000632	0.012765	0.007240	0.002032	0.020316
28-Jan-2029	0.366084	13.253900	20.768100	3.252470	46.488660	1.758510	0.020593	0.201075	0.047926	0.003666	0.002078	0.132109	0.000635	0.012829	0.007276	0.002042	0.020418
29-Jan-2029	0.366084	13.323200	20.876700	3.269480	46.731749	1.767710	0.020701	0.202127	0.048177	0.003685	0.002089	0.132800	0.000639	0.012896	0.007314	0.002052	0.020525
30-Jan-2029	0.366084	13.393500	20.986900	3.286730	46.978324	1.777030	0.020810	0.203193	0.048431	0.003704	0.002100	0.133500	0.000642	0.012964	0.007353	0.002063	0.020633
31-Jan-2029	0.366084	13.489600	21.137500	3.310320	47.315429	1.789790	0.020959	0.204652	0.048779	0.003731	0.002115	0.134459	0.000647	0.013057	0.007405	0.002078	0.020781
1-Feb-2029	0.366084	13.587200	21.290400	3.334250	47.657680	1.802730	0.021111	0.206132	0.049131	0.003758	0.002131	0.135431	0.000651	0.013152	0.007459	0.002093	0.020931
2-Feb-2029	0.366084	13.683200	21.440800	3.357810	47.994412	1.815470	0.021260	0.207588	0.049478	0.003784	0.002146	0.136388	0.000656	0.013244	0.007512	0.002108	0.021079
3-Feb-2029	0.366084	13.776700	21.587400	3.380770	48.322431	1.827880	0.021405	0.209007	0.049817	0.003810	0.002160	0.137320	0.000660	0.013335	0.007563	0.002122	0.021223
4-Feb-2029	0.366084	13.867000	21.728900	3.402920	48.639124	1.839860	0.021546	0.210377	0.050143	0.003835	0.002174	0.138220	0.000665	0.013422	0.007612	0.002136	0.021362
5-Feb-2029	0.366084	13.954400	21.865800	3.424370	48.945692	1.851450	0.021681	0.211703	0.050459	0.003859	0.002188	0.139091	0.000669	0.013507	0.007660	0.002150	0.021497
6-Feb-2029	0.366084	14.039900	21.999800	3.445360	49.245623	1.862800	0.021814	0.213000	0.050768	0.003883	0.002202	0.139944	0.000673	0.013590	0.007707	0.002163	0.021629
7-Feb-2029	0.366084	14.124800	22.132700	3.466180	49.543355	1.874060	0.021946	0.214287	0.051075	0.003907	0.002215	0.140789	0.000677	0.013672	0.007754	0.002176	0.021759

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Feb-2029	0.366084	14.032200	21.987700	3.443460	49.218572	1.861770	0.021802	0.212883	0.050740	0.003881	0.002200	0.139867	0.000673	0.013582	0.007703	0.002162	0.021617
9-Feb-2029	0.366084	14.107100	22.105100	3.461840	49.481286	1.871710	0.021919	0.214019	0.051011	0.003902	0.002212	0.140613	0.000676	0.013655	0.007744	0.002173	0.021732
10-Feb-2029	0.366084	14.183000	22.224000	3.480460	49.747485	1.881780	0.022037	0.215171	0.051286	0.003923	0.002224	0.141370	0.000680	0.013728	0.007786	0.002185	0.021849
11-Feb-2029	0.366084	14.260000	22.344600	3.499350	50.017543	1.891990	0.022156	0.216338	0.051564	0.003944	0.002236	0.142137	0.000683	0.013803	0.007828	0.002197	0.021968
12-Feb-2029	0.366084	14.337400	22.465900	3.518360	50.289094	1.902270	0.022276	0.217513	0.051844	0.003965	0.002248	0.142909	0.000687	0.013878	0.007871	0.002209	0.022087
13-Feb-2029	0.366084	14.414100	22.586100	3.537180	50.558115	1.912440	0.022396	0.218677	0.052121	0.003987	0.002260	0.143673	0.000691	0.013952	0.007913	0.002221	0.022205
14-Feb-2029	0.366084	14.493900	22.711100	3.556750	50.837965	1.923030	0.022520	0.219887	0.052410	0.004009	0.002273	0.144468	0.000695	0.014029	0.007957	0.002233	0.022328
15-Feb-2029	0.366084	14.574900	22.838000	3.576630	51.122088	1.933780	0.022645	0.221116	0.052703	0.004031	0.002285	0.145276	0.000699	0.014108	0.008001	0.002245	0.022453
16-Feb-2029	0.366084	14.651900	22.958700	3.595530	51.392187	1.943990	0.022765	0.222284	0.052981	0.004052	0.002298	0.146043	0.000702	0.014182	0.008043	0.002257	0.022571
17-Feb-2029	0.366084	14.729500	23.080300	3.614570	51.664361	1.954290	0.022886	0.223461	0.053262	0.004074	0.002310	0.146817	0.000706	0.014257	0.008086	0.002269	0.022691
18-Feb-2029	0.366084	14.803100	23.195700	3.632640	51.922552	1.964060	0.023000	0.224578	0.053528	0.004094	0.002321	0.147551	0.000710	0.014328	0.008126	0.002280	0.022804
19-Feb-2029	0.366084	14.885100	23.324200	3.652760	52.210160	1.974940	0.023127	0.225822	0.053825	0.004117	0.002334	0.148368	0.000713	0.014408	0.008171	0.002293	0.022931
20-Feb-2029	0.366084	14.945400	23.418600	3.667560	52.421676	1.982940	0.023221	0.226737	0.054043	0.004134	0.002344	0.148969	0.000716	0.014466	0.008204	0.002302	0.023024
21-Feb-2029	0.366084	15.024700	23.542900	3.687030	52.699865	1.993460	0.023344	0.227941	0.054329	0.004155	0.002356	0.149760	0.000720	0.014543	0.008248	0.002315	0.023146
22-Feb-2029	0.366084	15.098600	23.658700	3.705150	52.959012	2.003260	0.023459	0.229061	0.054597	0.004176	0.002368	0.150496	0.000724	0.014614	0.008289	0.002326	0.023260
23-Feb-2029	0.366084	15.186000	23.795700	3.726600	53.265581	2.014860	0.023595	0.230387	0.054913	0.004200	0.002381	0.151367	0.000728	0.014699	0.008337	0.002339	0.023394
24-Feb-2029	0.366084	15.479500	24.255500	3.798620	54.295029	2.053800	0.024051	0.234839	0.055974	0.004281	0.002427	0.154292	0.000742	0.014983	0.008498	0.002385	0.023846
25-Feb-2029	0.366084	15.649900	24.522500	3.840440	54.892732	2.076410	0.024316	0.237425	0.056590	0.004328	0.002454	0.155991	0.000750	0.015148	0.008591	0.002411	0.024109
26-Feb-2029	0.366084	15.863200	24.856800	3.892790	55.640920	2.104710	0.024647	0.240661	0.057361	0.004387	0.002487	0.158117	0.000760	0.015355	0.008708	0.002444	0.024438
27-Feb-2029	0.366084	16.173900	25.343700	3.969030	56.730694	2.145940	0.025130	0.245375	0.058485	0.004473	0.002536	0.161214	0.000775	0.015655	0.008879	0.002492	0.024916
28-Feb-2029	0.366084	16.604700	26.018600	4.074730	58.241674	2.203090	0.025799	0.251910	0.060042	0.004592	0.002604	0.165508	0.000796	0.016072	0.009115	0.002558	0.025580
1-Mar-2029	0.366084	16.889800	26.465500	4.144710	59.241746	2.240920	0.026242	0.256236	0.061074	0.004671	0.002648	0.168350	0.000810	0.016348	0.009272	0.002602	0.026019
2-Mar-2029	0.366084	15.391500	24.117700	3.777030	53.986385	2.042130	0.023914	0.233505	0.055656	0.004257	0.002414	0.153416	0.000738	0.014898	0.008449	0.002371	0.023711
3-Mar-2029	0.366084	15.451500	24.211600	3.791750	54.196822	2.050080	0.024007	0.234415	0.055873	0.004273	0.002423	0.154013	0.000741	0.014956	0.008482	0.002380	0.023803
4-Mar-2029	0.366084	15.518700	24.316900	3.808240	54.432526	2.059000	0.024112	0.235434	0.056115	0.004292	0.002433	0.154683	0.000744	0.015021	0.008519	0.002391	0.023907
5-Mar-2029	0.366084	15.585900	24.422300	3.824730	54.668230	2.067920	0.024216	0.236454	0.056359	0.004311	0.002444	0.155353	0.000747	0.015086	0.008556	0.002401	0.024010
6-Mar-2029	0.366084	15.645600	24.515800	3.839390	54.877671	2.075840	0.024309	0.237360	0.056574	0.004327	0.002453	0.155948	0.000750	0.015144	0.008589	0.002410	0.024102
7-Mar-2029	0.366084	15.694000	24.591600	3.851250	55.047366	2.082250	0.024384	0.238094	0.056749	0.004341	0.002461	0.156430	0.000752	0.015191	0.008615	0.002418	0.024177
8-Mar-2029	0.366084	15.732800	24.652500	3.860790	55.183535	2.087410	0.024445	0.238683	0.056890	0.004351	0.002467	0.156818	0.000754	0.015228	0.008637	0.002424	0.024237
9-Mar-2029	0.366084	15.775700	24.719700	3.871310	55.333977	2.093100	0.024511	0.239334	0.057045	0.004363	0.002474	0.157245	0.000756	0.015270	0.008660	0.002430	0.024303
10-Mar-2029	0.366084	15.836400	24.814800	3.886210	55.546904	2.101160	0.024605	0.240255	0.057265	0.004380	0.002483	0.157850	0.000759	0.015329	0.008694	0.002440	0.024396
11-Mar-2029	0.366084	15.918700	24.943700	3.906400	55.835549	2.112070	0.024733	0.241503	0.057562	0.004403	0.002496	0.158670	0.000763	0.015408	0.008739	0.002452	0.024523
12-Mar-2029	0.366084	16.013900	25.092900	3.929760	56.169460	2.124700	0.024881	0.242947	0.057906	0.004429	0.002511	0.159619	0.000768	0.015500	0.008791	0.002467	0.024670
13-Mar-2029	0.366084	16.114400	25.250400	3.954430	56.522000	2.138040	0.025037	0.244472	0.058270	0.004457	0.002527	0.160621	0.000772	0.015598	0.008846	0.002482	0.024824
14-Mar-2029	0.366084	16.215000	25.408000	3.979110	56.874830	2.151380	0.025194	0.245998	0.058633	0.004485	0.002543	0.161624	0.000777	0.015695	0.008901	0.002498	0.024979
15-Mar-2029	0.366084	16.424800	25.736800	4.030600	57.610736	2.179220	0.025520	0.249181	0.059392	0.004543	0.002576	0.163715	0.000787	0.015898	0.009017	0.002530	0.025303
16-Mar-2029	0.366084	16.602300	26.014800	4.074140	58.233252	2.202770	0.025795	0.251873	0.060034	0.004592	0.002603	0.165484	0.000796	0.016070	0.009114	0.002558	0.025576
17-Mar-2029	0.366084	16.777200	26.288900	4.117070	58.846763	2.225980	0.026067	0.254527	0.060666	0.004640	0.002631	0.167227	0.000804	0.016239	0.009210	0.002585	0.025845
18-Mar-2029	0.366084	16.955500	26.568300	4.160820	59.472140	2.249630	0.026344	0.257232	0.061311	0.004689	0.002659	0.169004	0.000813	0.016412	0.009308	0.002612	0.026120
19-Mar-2029	0.366084	17.138700	26.855400	4.205790	60.114777	2.273940	0.026629	0.260012	0.061974	0.004740	0.002688	0.170831	0.000821	0.016589	0.009408	0.002640	0.026402
20-Mar-2029	0.366084	17.327100	27.150600	4.252010	60.775546	2.298930	0.026922	0.262869	0.062655	0.004792	0.002717	0.172708	0.000830	0.016771	0.009512	0.002669	0.026693
21-Mar-2029	0.366084	17.452500	27.347100	4.282790	61.215422	2.315580	0.027116	0.264773	0.063108	0.004827	0.002737	0.173959	0.000837	0.016893	0.009581	0.002689	0.026886
22-Mar-2029	0.366084	17.638100	27.637900	4.328330	61.866399	2.340200	0.027405	0.267587	0.063779	0.004878	0.002766	0.175808	0.000845	0.017072	0.009683	0.002717	0.027172
23-Mar-2029	0.366084	17.828100	27.935700	4.374960	62.532851	2.365410	0.027700	0.270470	0.064466	0.004931	0.002796	0.177702	0.000855	0.017256	0.009787	0.002746	0.027464
24-Mar-2029	0.366084	18.023000	28.241000	4.422780	63.216439	2.391260	0.028003	0.273427	0.065171	0.004985	0.002826	0.179645	0.000864	0.017445	0.009894	0.002776	0.027765
25-Mar-2029	0.366084	18.222900	28.554300	4.471850	63.917660	2.417790	0.028313	0.276460	0.065894	0.005040	0.002858	0.181638	0.000873	0.017639	0.010004	0.002807	0.028073
26-Mar-2029	0.366084	18.427600	28.875000	4.522070	64.635601	2.444950	0.028631	0.279565	0.066634	0.005097	0.002890	0.183678	0.000883	0.017837	0.010116	0.002839	0.028388
27-Mar-2029	0.366084	18.638600	29.205700	4.573860	65.375740	2.472950	0.028959	0.282767	0.067397	0.005155	0.002923	0.185781	0.000893	0.018041	0.010232	0.002871	0.028713
28-Mar-2029	0.366084	18.855300	29.545300	4.627040	66.135835	2.501700	0.029296	0.286055	0.068181	0.005215	0.002957	0.187941	0.000904	0.018251	0.010351	0.002905	0.029047
29-Mar-2029	0.366084	19.078400	29.894800	4.681770	66.918294	2.531290	0.029643	0.289438	0.068987	0.005277	0.002992	0.190164	0.000914	0.018467	0.010473	0.002939	0.029390
30-Mar-2029	0.366084	19.311500	30.260100	4.738990	67.735976	2.562230	0.030005	0.292975	0.069830	0.005341	0.003028	0.192488	0.000926	0.018692	0.010601	0.002975	0.029750

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Mar-2029	0.366084	19.554500	30.640800	4.798610	68.588262	2.594460	0.030382	0.296661	0.070709	0.005408	0.003066	0.194910	0.000937	0.018927	0.010735	0.003012	0.030124
1-Apr-2029	0.366084	19.800300	31.026000	4.858930	69.450423	2.627080	0.030764	0.300391	0.071598	0.005476	0.003105	0.197360	0.000949	0.019165	0.010870	0.003050	0.030503
2-Apr-2029	0.366084	19.956700	31.271000	4.897300	69.998961	2.647820	0.031007	0.302763	0.072163	0.005520	0.003129	0.198919	0.000957	0.019317	0.010955	0.003074	0.030743
3-Apr-2029	0.366084	20.017800	31.366900	4.912320	70.213380	2.655940	0.031102	0.303691	0.072384	0.005536	0.003139	0.199529	0.000959	0.019376	0.010989	0.003084	0.030838
4-Apr-2029	0.366084	20.049400	31.416200	4.920050	70.324118	2.660120	0.031151	0.304169	0.072498	0.005545	0.003144	0.199843	0.000961	0.019406	0.011006	0.003089	0.030886
5-Apr-2029	0.366084	20.069900	31.448500	4.925100	70.396102	2.662850	0.031183	0.304481	0.072573	0.005551	0.003147	0.200048	0.000962	0.019426	0.011018	0.003092	0.030918
6-Apr-2029	0.366084	20.085400	31.472700	4.928900	70.450454	2.664910	0.031207	0.304716	0.072629	0.005555	0.003150	0.200202	0.000963	0.019441	0.011026	0.003094	0.030942
7-Apr-2029	0.366084	20.098100	31.492600	4.932010	70.494973	2.666590	0.031227	0.304908	0.072675	0.005559	0.003152	0.200328	0.000963	0.019454	0.011033	0.003096	0.030961
8-Apr-2029	0.366084	20.108900	31.509500	4.934660	70.532853	2.668020	0.031244	0.305072	0.072714	0.005562	0.003153	0.200436	0.000964	0.019464	0.011039	0.003098	0.030978
9-Apr-2029	0.366084	20.118300	31.524300	4.936970	70.565838	2.669270	0.031258	0.305216	0.072748	0.005564	0.003155	0.200530	0.000964	0.019473	0.011044	0.003099	0.030993
10-Apr-2029	0.366084	20.126700	31.537500	4.939040	70.595337	2.670390	0.031271	0.305343	0.072778	0.005567	0.003156	0.200614	0.000965	0.019481	0.011049	0.003101	0.031005
11-Apr-2029	0.366084	20.134300	31.549300	4.940890	70.621932	2.671390	0.031283	0.305457	0.072805	0.005569	0.003157	0.200689	0.000965	0.019489	0.011053	0.003102	0.031017
12-Apr-2029	0.366084	20.141100	31.560000	4.942560	70.645789	2.672290	0.031294	0.305561	0.072830	0.005571	0.003158	0.200757	0.000965	0.019495	0.011057	0.003103	0.031028
13-Apr-2029	0.366084	20.147300	31.569700	4.944090	70.667571	2.673120	0.031303	0.305655	0.072853	0.005572	0.003159	0.200819	0.000966	0.019501	0.011060	0.003104	0.031037
14-Apr-2029	0.366084	20.153100	31.578800	4.945500	70.687860	2.673880	0.031312	0.305743	0.072873	0.005574	0.003160	0.200876	0.000966	0.019507	0.011063	0.003105	0.031046
15-Apr-2029	0.366084	20.158400	31.587100	4.946800	70.706447	2.674590	0.031321	0.305823	0.072893	0.005575	0.003161	0.200929	0.000966	0.019512	0.011066	0.003105	0.031054
16-Apr-2029	0.366084	20.163300	31.594700	4.948010	70.723665	2.675240	0.031328	0.305898	0.072910	0.005577	0.003162	0.200978	0.000966	0.019517	0.011069	0.003106	0.031062
17-Apr-2029	0.366084	20.167700	31.601800	4.949100	70.739141	2.675830	0.031335	0.305965	0.072927	0.005578	0.003162	0.201023	0.000967	0.019521	0.011071	0.003107	0.031069
18-Apr-2029	0.366084	20.171800	31.608100	4.950100	70.753496	2.676370	0.031341	0.306027	0.072941	0.005579	0.003163	0.201063	0.000967	0.019525	0.011074	0.003107	0.031075
19-Apr-2029	0.366084	20.175400	31.613700	4.950970	70.766068	2.676840	0.031347	0.306081	0.072954	0.005580	0.003164	0.201099	0.000967	0.019528	0.011076	0.003108	0.031080
20-Apr-2029	0.366084	20.178500	31.618600	4.951740	70.776980	2.677260	0.031352	0.306128	0.072965	0.005581	0.003164	0.201130	0.000967	0.019531	0.011077	0.003109	0.031085
21-Apr-2029	0.366084	20.181100	31.622800	4.952390	70.786149	2.677610	0.031356	0.306169	0.072975	0.005582	0.003165	0.201156	0.000967	0.019534	0.011079	0.003109	0.031089
22-Apr-2029	0.366084	20.183400	31.626200	4.952930	70.794116	2.677900	0.031359	0.306202	0.072983	0.005582	0.003165	0.201178	0.000967	0.019536	0.011080	0.003109	0.031093
23-Apr-2029	0.366084	20.185100	31.629000	4.953370	70.800172	2.678140	0.031362	0.306229	0.072989	0.005583	0.003165	0.201196	0.000967	0.019538	0.011081	0.003110	0.031095
24-Apr-2029	0.366084	20.186500	31.631200	4.953710	70.805068	2.678320	0.031364	0.306250	0.072994	0.005583	0.003165	0.201210	0.000968	0.019539	0.011082	0.003110	0.031098
25-Apr-2029	0.366084	20.187600	31.632800	4.953970	70.808886	2.678460	0.031366	0.306266	0.072998	0.005583	0.003166	0.201220	0.000968	0.019540	0.011082	0.003110	0.031099
26-Apr-2029	0.366084	20.188300	31.634000	4.954150	70.811375	2.678560	0.031367	0.306278	0.073001	0.005584	0.003166	0.201228	0.000968	0.019541	0.011083	0.003110	0.031100
27-Apr-2029	0.366084	20.188800	31.634800	4.954270	70.813117	2.678630	0.031368	0.306285	0.073003	0.005584	0.003166	0.201233	0.000968	0.019541	0.011083	0.003110	0.031101
28-Apr-2029	0.366084	20.189100	31.635200	4.954340	70.814155	2.678660	0.031368	0.306289	0.073004	0.005584	0.003166	0.201236	0.000968	0.019542	0.011083	0.003110	0.031102
29-Apr-2029	0.366084	20.189200	31.635400	4.954370	70.814528	2.678680	0.031368	0.306291	0.073004	0.005584	0.003166	0.201237	0.000968	0.019542	0.011083	0.003110	0.031102
30-Apr-2029	0.366086	20.188800	31.634700	4.954270	70.813117	2.678620	0.031368	0.306284	0.073003	0.005584	0.003166	0.201232	0.000968	0.019541	0.011083	0.003110	0.031101
1-May-2029	0.366224	20.169000	31.603700	4.949410	70.743663	2.676000	0.031337	0.305984	0.072931	0.005578	0.003163	0.201035	0.000967	0.019522	0.011072	0.003107	0.031071
2-May-2029	0.367857	19.942100	31.248200	4.893740	69.947845	2.645890	0.030985	0.302542	0.072111	0.005515	0.003127	0.198774	0.000956	0.019303	0.010948	0.003072	0.030721
3-May-2029	0.370443	19.647100	30.785900	4.821330	68.913046	2.606740	0.030526	0.298066	0.071044	0.005434	0.003081	0.195833	0.000942	0.019017	0.010786	0.003027	0.030267
4-May-2029	0.372986	19.266300	30.189200	4.727890	67.577402	2.556230	0.029935	0.292289	0.069667	0.005329	0.003021	0.192038	0.000923	0.018648	0.010576	0.002968	0.029680
5-May-2029	0.375431	18.772700	29.415800	4.606760	65.846070	2.490730	0.029168	0.284801	0.067882	0.005192	0.002944	0.187117	0.000900	0.018171	0.010306	0.002892	0.028920
6-May-2029	0.378999	18.303400	28.680400	4.491600	64.199999	2.428470	0.028438	0.277681	0.066185	0.005062	0.002870	0.182440	0.000877	0.017716	0.010048	0.002820	0.028197
7-May-2029	0.381258	17.940100	28.111200	4.402450	62.925719	2.380270	0.027874	0.272170	0.064871	0.004962	0.002813	0.178819	0.000860	0.017365	0.009848	0.002764	0.027637
8-May-2029	0.382909	17.525700	27.461800	4.300760	61.472203	2.325290	0.027230	0.265883	0.063373	0.004847	0.002748	0.174688	0.000840	0.016964	0.009621	0.002700	0.026999
9-May-2029	0.382762	17.269000	27.059600	4.237760	60.571789	2.291230	0.026831	0.261988	0.062445	0.004776	0.002708	0.172129	0.000828	0.016715	0.009480	0.002660	0.026603
10-May-2029	0.397096	17.199700	26.951000	4.220760	60.328741	2.282030	0.026724	0.260937	0.062194	0.004757	0.002697	0.171439	0.000824	0.016648	0.009442	0.002650	0.026496
11-May-2029	0.397045	16.880500	26.450800	4.142420	59.209094	2.239680	0.026228	0.256094	0.061040	0.004669	0.002647	0.168257	0.000809	0.016339	0.009267	0.002600	0.026005
12-May-2029	0.396785	16.713400	26.188900	4.101410	58.622966	2.217510	0.025968	0.253559	0.060436	0.004623	0.002621	0.166591	0.000801	0.016177	0.009175	0.002575	0.025747
13-May-2029	0.398535	16.349900	25.619400	4.012220	57.348022	2.169290	0.025403	0.248045	0.059121	0.004522	0.002564	0.162969	0.000784	0.015826	0.008975	0.002519	0.025187
14-May-2029	0.400128	16.045600	25.142600	3.937550	56.280694	2.128910	0.024931	0.243428	0.058021	0.004438	0.002516	0.159935	0.000769	0.015531	0.008808	0.002472	0.024718
15-May-2029	0.402411	15.757700	24.691400	3.866880	55.270789	2.090710	0.024483	0.239060	0.056980	0.004358	0.002471	0.157065	0.000755	0.015252	0.008650	0.002427	0.024275
16-May-2029	0.404197	15.563300	24.386900	3.819190	54.588985	2.064920	0.024181	0.236112	0.056277	0.004304	0.002440	0.155128	0.000746	0.015064	0.008544	0.002398	0.023976
17-May-2029	0.404453	15.293700	23.964500	3.753040	53.643388	2.029150	0.023762	0.232022	0.055302	0.004230	0.002398	0.152441	0.000733	0.014803	0.008396	0.002356	0.023560
18-May-2029	0.405968	15.108900	23.674700	3.707670	52.995108	2.004620	0.023475	0.229217	0.054634	0.004179	0.002369	0.150598	0.000724	0.014624	0.008294	0.002328	0.023275
19-May-2029	0.415203	13.777100	21.588000	3.380870	48.323841	1.827930	0.021406	0.209013	0.049818	0.003810	0.002160	0.137324	0.000660	0.013335	0.007563	0.002122	0.021224
20-May-2029	0.419056	13.460000	21.091100	3.303050	47.211580	1.785860	0.020913	0.204202	0.048671	0.003723	0.002111	0.134163	0.000645	0.013028	0.007389	0.002074	0.020735

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21-May-2029	0.426677	12.990400	20.355300	3.187810	45.564430	1.723550	0.020184	0.197078	0.046973	0.003593	0.002037	0.129482	0.000623	0.012574	0.007131	0.002001	0.020012
22-May-2029	0.435767	12.513500	19.607900	3.070770	43.891640	1.660270	0.019443	0.189842	0.045249	0.003461	0.001962	0.124728	0.000600	0.012112	0.006869	0.001928	0.019277
23-May-2029	0.445929	11.344400	17.776100	2.783880	39.790985	1.505160	0.017626	0.172106	0.041021	0.003138	0.001779	0.113076	0.000544	0.010981	0.006228	0.001748	0.017476
24-May-2029	0.462562	10.182300	15.955200	2.498720	35.714932	1.350980	0.015821	0.154477	0.036819	0.002816	0.001597	0.101493	0.000488	0.009856	0.005590	0.001569	0.015686
25-May-2029	0.473967	9.613460	15.063800	2.359110	33.719625	1.275500	0.014937	0.145846	0.034762	0.002659	0.001507	0.095823	0.000461	0.009305	0.005277	0.001481	0.014810
26-May-2029	0.488589	9.186320	14.394500	2.254290	32.221407	1.218830	0.014273	0.139366	0.033218	0.002541	0.001441	0.091565	0.000440	0.008892	0.005043	0.001415	0.014152
27-May-2029	0.509582	9.068370	14.209600	2.225350	31.807711	1.203180	0.014090	0.137576	0.032791	0.002508	0.001422	0.090389	0.000435	0.008778	0.004978	0.001397	0.013970
28-May-2029	0.525240	10.015100	15.693100	2.457670	35.128390	1.328790	0.015561	0.151939	0.036215	0.002770	0.001570	0.099826	0.000480	0.009694	0.005498	0.001543	0.015428
29-May-2029	0.550176	9.941360	15.577600	2.439580	34.869766	1.319010	0.015446	0.150821	0.035948	0.002750	0.001559	0.099091	0.000476	0.009623	0.005457	0.001531	0.015315
30-May-2029	0.549370	10.217900	16.010900	2.507450	35.839775	1.355700	0.015876	0.155016	0.036948	0.002826	0.001602	0.101848	0.000490	0.009890	0.005609	0.001574	0.015741
31-May-2029	0.556439	10.082100	15.798200	2.474130	35.363471	1.337690	0.015665	0.152956	0.036457	0.002788	0.001581	0.100494	0.000483	0.009759	0.005535	0.001553	0.015532
1-Jun-2029	0.616648	9.630300	15.090200	2.363250	33.778723	1.277740	0.014963	0.146102	0.034823	0.002664	0.001510	0.095990	0.000462	0.009321	0.005287	0.001484	0.014836
2-Jun-2029	0.615682	9.591160	15.028800	2.353640	33.641416	1.272540	0.014902	0.145508	0.034682	0.002653	0.001504	0.095600	0.000460	0.009284	0.005265	0.001478	0.014775
3-Jun-2029	0.624481	9.590370	15.027600	2.353450	33.638661	1.272440	0.014901	0.145496	0.034679	0.002652	0.001504	0.095592	0.000460	0.009283	0.005265	0.001477	0.014774
4-Jun-2029	0.628622	9.009850	14.117900	2.210990	31.602452	1.195420	0.013999	0.136689	0.032580	0.002492	0.001413	0.089806	0.000432	0.008721	0.004946	0.001388	0.013880
5-Jun-2029	0.632493	8.766190	13.736100	2.151200	30.747818	1.163090	0.013620	0.132992	0.031699	0.002425	0.001375	0.087377	0.000420	0.008485	0.004812	0.001350	0.013504
6-Jun-2029	0.638310	8.651860	13.539200	2.128440	30.368610	1.144620	0.013418	0.131000	0.031542	0.002389	0.001366	0.086652	0.000414	0.008396	0.004747	0.001334	0.013336
7-Jun-2029	0.652917	8.629790	13.474200	2.131960	30.327997	1.136890	0.013343	0.130259	0.031910	0.002376	0.001379	0.087123	0.000411	0.008413	0.004730	0.001332	0.013316
8-Jun-2029	0.729704	8.220990	12.707900	2.068530	29.046019	1.058570	0.012528	0.122187	0.032285	0.002230	0.001383	0.085884	0.000385	0.008176	0.004487	0.001274	0.012742
9-Jun-2029	0.801533	7.733350	11.736900	2.009280	27.584390	0.950467	0.011461	0.111575	0.033604	0.002037	0.001420	0.085616	0.000351	0.007968	0.004190	0.001209	0.012085
10-Jun-2029	0.865643	7.738760	11.668100	2.033200	27.696401	0.934597	0.011350	0.110400	0.034734	0.002016	0.001463	0.087357	0.000347	0.008071	0.004181	0.001212	0.012123
11-Jun-2029	1.008033	7.673040	11.472800	2.043960	27.576608	0.906155	0.011104	0.107891	0.035820	0.001971	0.001503	0.088705	0.000339	0.008124	0.004131	0.001206	0.012057
12-Jun-2029	1.260357	7.514280	11.160700	2.023280	27.095024	0.871586	0.010758	0.104425	0.036147	0.001908	0.001512	0.088477	0.000328	0.008051	0.004035	0.001184	0.011836
13-Jun-2029	1.546407	7.364120	10.876700	2.000380	26.625772	0.841396	0.010450	0.101345	0.036311	0.001853	0.001515	0.088035	0.000318	0.007968	0.003945	0.001162	0.011624
14-Jun-2029	1.715803	7.335230	10.830300	1.993200	26.524067	0.837278	0.010398	0.100788	0.036129	0.001845	0.001510	0.087757	0.000317	0.007940	0.003929	0.001157	0.011571
15-Jun-2029	1.831817	7.263740	10.711200	1.977170	26.279545	0.826381	0.010274	0.099520	0.035898	0.001824	0.001502	0.087209	0.000313	0.007879	0.003889	0.001146	0.011456
16-Jun-2029	1.920780	7.162960	10.532200	1.958150	25.949573	0.808751	0.010086	0.097651	0.035818	0.001792	0.001497	0.086692	0.000307	0.007808	0.003831	0.001131	0.011308
17-Jun-2029	1.937057	7.087000	10.414500	1.938510	25.679023	0.799115	0.009969	0.096475	0.035431	0.001773	0.001484	0.085926	0.000303	0.007732	0.003790	0.001118	0.011183
18-Jun-2029	1.980100	6.916840	10.120700	1.903800	25.111198	0.771164	0.009666	0.093455	0.035150	0.001721	0.001471	0.084879	0.000294	0.007602	0.003693	0.001093	0.010927
19-Jun-2029	1.986857	6.815030	9.943820	1.883140	24.771900	0.754303	0.009484	0.091636	0.034991	0.001691	0.001463	0.084304	0.000288	0.007526	0.003635	0.001077	0.010773
20-Jun-2029	1.992333	6.707080	9.761810	1.859630	24.405535	0.737542	0.009298	0.089779	0.034719	0.001660	0.001452	0.083562	0.000282	0.007438	0.003574	0.001061	0.010606
21-Jun-2029	2.097233	6.569420	9.525520	1.830860	23.943323	0.715302	0.009054	0.087349	0.034436	0.001620	0.001440	0.082707	0.000275	0.007331	0.003496	0.001040	0.010395
22-Jun-2029	2.332230	6.433400	9.264990	1.810260	23.518850	0.687829	0.008778	0.084593	0.034639	0.001573	0.001443	0.082506	0.000266	0.007261	0.003416	0.001020	0.010203
23-Jun-2029	2.596940	6.325720	9.061190	1.793070	23.179185	0.666680	0.008565	0.082457	0.034764	0.001538	0.001444	0.082316	0.000259	0.007202	0.003353	0.001005	0.010050
24-Jun-2029	2.834417	6.243560	8.910840	1.778220	22.912879	0.651715	0.008411	0.080907	0.034767	0.001513	0.001442	0.082081	0.000254	0.007151	0.003305	0.000993	0.009929
25-Jun-2029	3.074400	6.157120	8.756190	1.761730	22.629133	0.636630	0.008253	0.079321	0.034726	0.001488	0.001437	0.081734	0.000249	0.007093	0.003256	0.000980	0.009801
26-Jun-2029	3.319083	6.104990	8.668830	1.749870	22.450125	0.628805	0.008166	0.078439	0.034571	0.001475	0.001431	0.081404	0.000246	0.007050	0.003227	0.000972	0.009718
27-Jun-2029	3.579710	6.032480	8.541160	1.735270	22.208944	0.616627	0.008037	0.077134	0.034480	0.001455	0.001426	0.081080	0.000242	0.006998	0.003186	0.000961	0.009607
28-Jun-2029	3.775150	5.939860	8.381040	1.716040	21.898483	0.601548	0.007873	0.075501	0.034316	0.001428	0.001418	0.080562	0.000237	0.006927	0.003133	0.000947	0.009466
29-Jun-2029	3.944410	5.845680	8.210270	1.699350	21.594586	0.584386	0.007696	0.073734	0.034344	0.001397	0.001416	0.080167	0.000231	0.006867	0.003079	0.000933	0.009333
30-Jun-2029	4.161777	5.704850	7.964780	1.671380	21.127753	0.560777	0.007443	0.071225	0.034184	0.001353	0.001406	0.079358	0.000223	0.006762	0.002998	0.000913	0.009126
1-Jul-2029	5.984647	5.312720	7.340060	1.577730	19.762954	0.506692	0.006822	0.065117	0.032916	0.001242	0.001350	0.075658	0.000204	0.006396	0.002782	0.000853	0.008534
2-Jul-2029	6.787993	5.644930	7.888430	1.646340	20.875018	0.558915	0.007414	0.070753	0.033584	0.001366	0.001379	0.078961	0.000221	0.006683	0.002972	0.000901	0.009008
3-Jul-2029	7.715027	5.639500	7.879520	1.642380	20.845152	0.559224	0.007414	0.070715	0.033372	0.001377	0.001374	0.079220	0.000221	0.006679	0.002972	0.000898	0.008979
4-Jul-2029	9.088420	5.726950	8.034230	1.657860	21.127262	0.575129	0.007579	0.072315	0.033206	0.001416	0.001375	0.079927	0.000227	0.006735	0.003023	0.000908	0.009083
5-Jul-2029	10.462700	5.785290	8.137070	1.667500	21.312634	0.585685	0.007689	0.073398	0.033127	0.001441	0.001376	0.080401	0.000230	0.006779	0.003058	0.000916	0.009161
6-Jul-2029	10.585500	5.854550	8.266750	1.675860	21.520003	0.599465	0.007825	0.074767	0.033160	0.001468	0.001374	0.080648	0.000235	0.006830	0.003101	0.000926	0.009263
7-Jul-2029	9.895077	5.838980	8.267750	1.662790	21.427302	0.603037	0.007840	0.074959	0.032751	0.001475	0.001357	0.080047	0.000235	0.006788	0.003099	0.000923	0.009227
8-Jul-2029	10.088360	5.901800	8.381790	1.671830	21.621391	0.615108	0.007963	0.076186	0.032790	0.001503	0.001358	0.080492	0.000239	0.006834	0.003138	0.000931	0.009314
9-Jul-2029	10.514367	5.922870	8.410140	1.678270	21.700522	0.617076	0.007990	0.076443	0.032819	0.001510	0.001361	0.080852	0.000240	0.006858	0.003148	0.000934	0.009344
10-Jul-2029	11.562833	5.941580	8.443440	1.681590	21.760913	0.620516	0.008025	0.076792	0.032776	0.001519	0.001361	0.081014	0.000241	0.006869	0.003159	0.000937	0.009368

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Jul-2029	10.637500	5.922070	8.449080	1.665500	21.645938	0.625110	0.008040	0.077000	0.032284	0.001520	0.001339	0.079933	0.000242	0.006811	0.003155	0.000933	0.009329
12-Jul-2029	11.220200	5.898640	8.430180	1.654540	21.542300	0.625538	0.008026	0.076897	0.031967	0.001518	0.001326	0.079284	0.000242	0.006767	0.003145	0.000929	0.009288
13-Jul-2029	12.240300	5.943680	8.515480	1.661140	21.681943	0.634472	0.008113	0.077770	0.031922	0.001535	0.001325	0.079418	0.000245	0.006792	0.003172	0.000935	0.009352
14-Jul-2029	13.298867	5.976930	8.572980	1.668000	21.793218	0.639966	0.008171	0.078336	0.031931	0.001546	0.001327	0.079660	0.000247	0.006816	0.003191	0.000940	0.009399
15-Jul-2029	14.034867	6.014850	8.645400	1.672960	21.908330	0.647681	0.008246	0.079091	0.031903	0.001561	0.001326	0.079766	0.000249	0.006838	0.003214	0.000945	0.009453
16-Jul-2029	12.815133	5.961600	8.573220	1.656980	21.709559	0.642851	0.008178	0.078456	0.031545	0.001549	0.001312	0.078988	0.000247	0.006772	0.003186	0.000937	0.009367
17-Jul-2029	12.116933	5.901880	8.495710	1.638130	21.482814	0.638057	0.008107	0.077783	0.031107	0.001536	0.001294	0.078014	0.000245	0.006693	0.003155	0.000927	0.009271
18-Jul-2029	10.048500	5.866440	8.452190	1.626390	21.345975	0.635677	0.008067	0.077415	0.030808	0.001529	0.001282	0.077382	0.000244	0.006642	0.003137	0.000921	0.009212
19-Jul-2029	9.979733	5.877300	8.476270	1.627180	21.376345	0.638501	0.008092	0.077671	0.030742	0.001534	0.001280	0.077337	0.000245	0.006643	0.003144	0.000923	0.009227
20-Jul-2029	10.721433	5.963010	8.612750	1.647390	21.673588	0.650317	0.008225	0.078974	0.031014	0.001559	0.001292	0.078167	0.000249	0.006724	0.003192	0.000936	0.009357
21-Jul-2029	11.849667	6.014340	8.696760	1.658830	21.848869	0.657837	0.008307	0.079785	0.031149	0.001574	0.001298	0.078609	0.000252	0.006769	0.003220	0.000943	0.009435
22-Jul-2029	12.669467	6.081180	8.808160	1.673320	22.075438	0.667980	0.008417	0.080862	0.031295	0.001595	0.001305	0.079129	0.000255	0.006825	0.003258	0.000954	0.009536
23-Jul-2029	13.601000	6.206540	9.017450	1.700620	22.500884	0.686978	0.008621	0.082880	0.031584	0.001632	0.001318	0.080067	0.000262	0.006931	0.003329	0.000973	0.009726
24-Jul-2029	14.418767	6.245930	9.092190	1.706510	22.623495	0.694680	0.008696	0.083631	0.031575	0.001644	0.001318	0.080131	0.000265	0.006954	0.003352	0.000978	0.009784
25-Jul-2029	15.112533	6.311350	9.210860	1.717580	22.832435	0.706459	0.008814	0.084811	0.031634	0.001665	0.001320	0.080371	0.000269	0.006999	0.003391	0.000988	0.009882
26-Jul-2029	15.628733	6.423840	9.397130	1.742140	23.214461	0.723277	0.008997	0.086607	0.031921	0.001698	0.001332	0.081255	0.000274	0.007097	0.003454	0.001005	0.010053
27-Jul-2029	16.001567	6.486290	9.501440	1.755470	23.425292	0.732800	0.009099	0.087616	0.032068	0.001717	0.001339	0.081725	0.000278	0.007150	0.003490	0.001015	0.010147
28-Jul-2029	16.047467	6.503850	9.532690	1.758940	23.483428	0.735832	0.009130	0.087921	0.032068	0.001723	0.001339	0.081820	0.000279	0.007161	0.003500	0.001017	0.010173
29-Jul-2029	15.834967	6.643440	9.774260	1.785610	23.941812	0.758763	0.009369	0.090291	0.032342	0.001765	0.001349	0.082622	0.000287	0.007274	0.003581	0.001038	0.010384
30-Jul-2029	16.508867	6.637330	9.778720	1.780300	23.904688	0.760593	0.009375	0.090375	0.032152	0.001765	0.001341	0.082192	0.000287	0.007251	0.003579	0.001037	0.010372
31-Jul-2029	14.864667	6.588230	9.721920	1.762990	23.710803	0.757871	0.009323	0.089896	0.031723	0.001754	0.001324	0.081177	0.000286	0.007178	0.003555	0.001029	0.010292
1-Aug-2029	14.454967	6.643310	9.811000	1.776140	23.902490	0.765611	0.009408	0.090733	0.031867	0.001769	0.001331	0.081659	0.000289	0.007226	0.003585	0.001038	0.010376
2-Aug-2029	14.038667	6.674240	9.865420	1.782750	24.006942	0.770725	0.009460	0.091246	0.031873	0.001778	0.001333	0.081819	0.000290	0.007245	0.003602	0.001042	0.010421
3-Aug-2029	13.637967	6.686420	9.891880	1.784270	24.043615	0.773646	0.009486	0.091502	0.031804	0.001783	0.001332	0.081759	0.000291	0.007246	0.003609	0.001044	0.010438
4-Aug-2029	14.072433	6.722540	9.958460	1.790690	24.160244	0.780240	0.009550	0.092144	0.031802	0.001794	0.001333	0.081864	0.000294	0.007267	0.003630	0.001049	0.010491
5-Aug-2029	13.094767	6.799430	10.088700	1.807770	24.422574	0.792043	0.009673	0.093359	0.031934	0.001816	0.001340	0.082381	0.000298	0.007326	0.003672	0.001061	0.010607
6-Aug-2029	12.940367	6.821340	10.136000	1.810160	24.487125	0.797272	0.009719	0.093815	0.031830	0.001824	0.001337	0.082261	0.000299	0.007329	0.003685	0.001064	0.010637
7-Aug-2029	11.938567	6.869960	10.222600	1.819550	24.647197	0.805603	0.009802	0.094641	0.031862	0.001839	0.001340	0.082486	0.000302	0.007362	0.003713	0.001071	0.010709
8-Aug-2029	12.264800	6.880950	10.241400	1.822460	24.686622	0.807262	0.009818	0.094800	0.031846	0.001842	0.001341	0.082567	0.000303	0.007367	0.003719	0.001072	0.010724
9-Aug-2029	12.987800	7.017600	10.471700	1.853160	25.154260	0.827940	0.010035	0.096927	0.032106	0.001881	0.001355	0.083497	0.000310	0.007474	0.003794	0.001093	0.010932
10-Aug-2029	11.945867	7.008280	10.453400	1.852700	25.129094	0.825906	0.010015	0.096720	0.032068	0.001878	0.001356	0.083509	0.000310	0.007466	0.003788	0.001092	0.010916
11-Aug-2029	11.279867	7.010540	10.473600	1.848980	25.119418	0.829318	0.010034	0.096932	0.031877	0.001880	0.001349	0.083106	0.000310	0.007447	0.003791	0.001092	0.010916
12-Aug-2029	12.402167	7.083000	10.589700	1.867100	25.374969	0.839083	0.010142	0.097980	0.032059	0.001900	0.001359	0.083750	0.000314	0.007509	0.003830	0.001103	0.011027
13-Aug-2029	11.123800	7.105970	10.632100	1.872020	25.452585	0.843115	0.010179	0.098348	0.032028	0.001907	0.001360	0.083815	0.000315	0.007519	0.003842	0.001106	0.011060
14-Aug-2029	10.767133	7.071040	10.591200	1.860270	25.316979	0.840996	0.010139	0.097970	0.031710	0.001899	0.001348	0.083113	0.000315	0.007466	0.003824	0.001100	0.011002
15-Aug-2029	10.778200	7.171420	10.759800	1.882230	25.658059	0.856252	0.010299	0.099548	0.031919	0.001928	0.001358	0.083828	0.000320	0.007547	0.003880	0.001115	0.011154
16-Aug-2029	11.097067	7.273550	10.930800	1.905730	26.009850	0.871463	0.010458	0.101107	0.032115	0.001957	0.001369	0.084563	0.000325	0.007628	0.003936	0.001131	0.011309
17-Aug-2029	9.430010	7.162790	10.774200	1.874360	25.604101	0.859933	0.010307	0.099653	0.031494	0.001928	0.001344	0.083019	0.000321	0.007498	0.003877	0.001113	0.011134
18-Aug-2029	8.733393	7.189390	10.832200	1.875150	25.673775	0.866704	0.010364	0.100238	0.031412	0.001939	0.001339	0.082874	0.000323	0.007508	0.003895	0.001117	0.011171
19-Aug-2029	8.622070	7.287890	10.990800	1.898320	26.015143	0.880454	0.010515	0.101705	0.031687	0.001967	0.001352	0.083771	0.000328	0.007596	0.003950	0.001132	0.011320
20-Aug-2029	9.056557	7.368750	11.116100	1.920440	26.308141	0.890482	0.010628	0.102789	0.031929	0.001989	0.001366	0.084625	0.000332	0.007669	0.003992	0.001144	0.011444
21-Aug-2029	8.279477	7.405450	11.195100	1.922340	26.407605	0.899500	0.010707	0.103597	0.031845	0.002002	0.001361	0.084419	0.000335	0.007683	0.004016	0.001150	0.011496
22-Aug-2029	8.671650	7.451560	11.264400	1.935740	26.577923	0.904813	0.010768	0.104180	0.031978	0.002014	0.001370	0.084970	0.000337	0.007725	0.004040	0.001157	0.011566
23-Aug-2029	9.541397	7.474000	11.308000	1.939840	26.650839	0.909156	0.010807	0.104560	0.031929	0.002021	0.001370	0.084976	0.000338	0.007733	0.004052	0.001160	0.011598
24-Aug-2029	9.542700	7.540410	11.421300	1.954300	26.876211	0.919484	0.010912	0.105595	0.032023	0.002041	0.001376	0.085396	0.000342	0.007782	0.004089	0.001170	0.011698
25-Aug-2029	10.201767	7.557140	11.455900	1.956560	26.927293	0.923190	0.010943	0.105907	0.031959	0.002047	0.001374	0.085375	0.000343	0.007786	0.004099	0.001172	0.011721
26-Aug-2029	10.339933	7.613840	11.556000	1.967740	27.114912	0.932695	0.011037	0.106835	0.032011	0.002065	0.001378	0.085671	0.000346	0.007825	0.004131	0.001180	0.011805
27-Aug-2029	9.383550	7.609370	11.558000	1.964730	27.091355	0.933668	0.011036	0.106840	0.031864	0.002064	0.001373	0.085401	0.000347	0.007808	0.004129	0.001180	0.011795
28-Aug-2029	7.905067	7.510880	11.415900	1.937700	26.734116	0.922881	0.010898	0.105513	0.031346	0.002038	0.001351	0.084100	0.000342	0.007696	0.004076	0.001164	0.011641
29-Aug-2029	7.635483	7.517250	11.431800	1.938170	26.751957	0.924710	0.010911	0.105644	0.031278	0.002041	0.001350	0.084015	0.000343	0.007693	0.004080	0.001165	0.011649
30-Aug-2029	8.431283	7.613000	11.588800	1.961170	27.085759	0.938344	0.011056	0.107059	0.031490	0.002068	0.001362	0.084793	0.000348	0.007771	0.004132	0.001179	0.011794

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Aug-2029	7.537050	7.659460	11.672000	1.970770	27.241302	0.946161	0.011132	0.107810	0.031511	0.002081	0.001365	0.084970	0.000351	0.007800	0.004158	0.001186	0.011864
1-Sep-2029	7.458730	7.689880	11.727000	1.977140	27.343493	0.951329	0.011182	0.108297	0.031511	0.002089	0.001366	0.085068	0.000352	0.007817	0.004174	0.001191	0.011909
2-Sep-2029	7.610437	7.773910	11.871700	1.994820	27.626122	0.964662	0.011318	0.109642	0.031642	0.002113	0.001373	0.085553	0.000357	0.007880	0.004222	0.001204	0.012036
3-Sep-2029	8.325940	7.820260	11.947000	2.006010	27.787938	0.971160	0.011388	0.110322	0.031751	0.002126	0.001380	0.085948	0.000359	0.007920	0.004247	0.001211	0.012106
4-Sep-2029	7.235993	7.759010	11.855900	1.989850	27.568450	0.963971	0.011300	0.109471	0.031461	0.002110	0.001368	0.085215	0.000357	0.007854	0.004214	0.001201	0.012010
5-Sep-2029	7.104800	7.808350	11.935700	2.001420	27.739298	0.970890	0.011375	0.110205	0.031602	0.002124	0.001374	0.085641	0.000359	0.007898	0.004241	0.001209	0.012086
6-Sep-2029	6.563117	7.830990	11.974700	2.006110	27.815143	0.974506	0.011412	0.110567	0.031637	0.002130	0.001376	0.085777	0.000361	0.007915	0.004254	0.001212	0.012120
7-Sep-2029	5.754043	7.740380	11.846000	1.980180	27.482110	0.965088	0.011290	0.109399	0.031143	0.002108	0.001355	0.084545	0.000357	0.007811	0.004206	0.001198	0.011977
8-Sep-2029	5.354653	7.716570	11.820500	1.970930	27.384565	0.964225	0.011267	0.109192	0.030912	0.002103	0.001345	0.084017	0.000356	0.007774	0.004195	0.001194	0.011937
9-Sep-2029	4.903650	7.653610	11.734600	1.951790	27.148535	0.958374	0.011186	0.108427	0.030534	0.002088	0.001329	0.083070	0.000354	0.007699	0.004162	0.001184	0.011837
10-Sep-2029	4.993990	7.719350	11.844600	1.966050	27.371411	0.968336	0.011291	0.109463	0.030685	0.002107	0.001336	0.083564	0.000357	0.007753	0.004199	0.001194	0.011936
11-Sep-2029	4.392337	7.795310	11.972000	1.982450	27.628618	0.979916	0.011413	0.110664	0.030844	0.002130	0.001343	0.084110	0.000362	0.007816	0.004242	0.001205	0.012051
12-Sep-2029	3.479340	7.805160	11.991900	1.983660	27.658196	0.982126	0.011432	0.110861	0.030828	0.002133	0.001343	0.084103	0.000362	0.007821	0.004248	0.001206	0.012065
13-Sep-2029	3.307937	7.848670	12.065500	1.992960	27.805138	0.988896	0.011503	0.111557	0.030917	0.002146	0.001347	0.084413	0.000365	0.007857	0.004272	0.001213	0.012130
14-Sep-2029	2.503183	7.830260	12.049100	1.984650	27.724948	0.988766	0.011489	0.111438	0.030701	0.002143	0.001337	0.083899	0.000364	0.007824	0.004264	0.001210	0.012099
15-Sep-2029	1.360173	7.780910	11.984400	1.968800	27.536451	0.984689	0.011429	0.110875	0.030382	0.002131	0.001323	0.083083	0.000363	0.007762	0.004239	0.001202	0.012021
16-Sep-2029	0.950234	7.811310	12.042300	1.973220	27.630561	0.990646	0.011485	0.111444	0.030378	0.002141	0.001323	0.083124	0.000365	0.007781	0.004258	0.001207	0.012065
17-Sep-2029	0.910090	7.801090	12.039600	1.966800	27.578604	0.991826	0.011485	0.111460	0.030198	0.002140	0.001314	0.082672	0.000365	0.007756	0.004254	0.001205	0.012047
18-Sep-2029	1.075727	7.866080	12.156400	1.978230	27.787953	1.003250	0.011599	0.112596	0.030272	0.002159	0.001317	0.082923	0.000369	0.007803	0.004292	0.001214	0.012145
19-Sep-2029	1.260357	7.883640	12.189700	1.980830	27.842507	1.006660	0.011631	0.112923	0.030272	0.002165	0.001317	0.082949	0.000370	0.007814	0.004303	0.001217	0.012171
20-Sep-2029	1.343763	7.965480	12.333500	1.996390	28.110938	1.020370	0.011770	0.114306	0.030397	0.002189	0.001322	0.083352	0.000374	0.007876	0.004350	0.001229	0.012294
21-Sep-2029	1.222877	8.014680	12.422500	2.004740	28.268175	1.029130	0.011858	0.115177	0.030456	0.002204	0.001324	0.083525	0.000377	0.007911	0.004380	0.001237	0.012368
22-Sep-2029	1.133633	7.940810	12.317400	1.983560	27.996503	1.021420	0.011759	0.114230	0.030072	0.002185	0.001307	0.082503	0.000374	0.007828	0.004341	0.001225	0.012253
23-Sep-2029	1.100993	7.984050	12.394400	1.991540	28.137335	1.028850	0.011833	0.114972	0.030127	0.002198	0.001309	0.082690	0.000377	0.007859	0.004366	0.001232	0.012317
24-Sep-2029	0.734774	7.996960	12.422800	1.992380	28.173030	1.032090	0.011861	0.115259	0.030080	0.002202	0.001307	0.082604	0.000378	0.007862	0.004374	0.001234	0.012336
25-Sep-2029	0.197304	8.025370	12.475100	1.997180	28.263736	1.037280	0.011912	0.115767	0.030096	0.002211	0.001307	0.082683	0.000380	0.007881	0.004391	0.001238	0.012378
26-Sep-2029	0.496114	8.091540	12.588800	2.010550	28.484020	1.047880	0.012022	0.116852	0.030223	0.002231	0.001313	0.083079	0.000383	0.007934	0.004429	0.001248	0.012478
27-Sep-2029	0.649196	8.143800	12.675000	2.022150	28.662282	1.055580	0.012105	0.117667	0.030361	0.002246	0.001319	0.083484	0.000386	0.007980	0.004458	0.001256	0.012558
28-Sep-2029	0.083075	8.182270	12.751200	2.026980	28.778232	1.063650	0.012180	0.118423	0.030327	0.002258	0.001317	0.083449	0.000389	0.007999	0.004482	0.001261	0.012614
29-Sep-2029	0.000651	8.213250	12.807600	2.032320	28.877579	1.069230	0.012235	0.118971	0.030349	0.002268	0.001318	0.083555	0.000391	0.008020	0.004500	0.001266	0.012660
30-Sep-2029	0.000775	8.242890	12.862400	2.037260	28.971933	1.074700	0.012288	0.119504	0.030360	0.002277	0.001318	0.083633	0.000392	0.008039	0.004518	0.001270	0.012704
1-Oct-2029	0.002309	8.312990	12.982200	2.051680	29.206354	1.085810	0.012404	0.120647	0.030498	0.002297	0.001324	0.084077	0.000396	0.008096	0.004558	0.001281	0.012810
2-Oct-2029	0.062005	8.290830	12.952300	2.044900	29.123101	1.083800	0.012375	0.120382	0.030363	0.002292	0.001318	0.083736	0.000395	0.008069	0.004546	0.001278	0.012775
3-Oct-2029	0.123916	8.273620	12.931600	2.038920	29.055502	1.082740	0.012357	0.120209	0.030226	0.002288	0.001312	0.083407	0.000395	0.008045	0.004538	0.001275	0.012747
4-Oct-2029	0.288437	8.294700	12.966200	2.043650	29.127617	1.085810	0.012390	0.120535	0.030283	0.002294	0.001315	0.083578	0.000396	0.008063	0.004549	0.001278	0.012779
5-Oct-2029	0.119411	8.356550	13.069700	2.057000	29.337031	1.095190	0.012489	0.121516	0.030429	0.002312	0.001321	0.084033	0.000399	0.008116	0.004584	0.001287	0.012873
6-Oct-2029	0.016600	8.235380	12.883700	2.026230	28.907759	1.079990	0.012312	0.119797	0.029945	0.002280	0.001300	0.082727	0.000394	0.007994	0.004518	0.001269	0.012686
7-Oct-2029	0.175194	8.186680	12.808200	2.014090	28.736163	1.073720	0.012240	0.119097	0.029759	0.002266	0.001292	0.082221	0.000391	0.007945	0.004492	0.001261	0.012610
8-Oct-2029	0.252196	8.135620	12.728800	2.001430	28.556532	1.067110	0.012164	0.118359	0.029567	0.002252	0.001284	0.081697	0.000389	0.007895	0.004464	0.001253	0.012532
9-Oct-2029	0.328611	8.155620	12.760900	2.006180	28.626032	1.069890	0.012195	0.118660	0.029630	0.002258	0.001287	0.081877	0.000390	0.007913	0.004475	0.001256	0.012562
10-Oct-2029	0.171117	8.054360	12.603300	1.981110	28.269948	1.056740	0.012044	0.117195	0.029252	0.002230	0.001270	0.080840	0.000385	0.007814	0.004419	0.001241	0.012406
11-Oct-2029	0.005193	7.959960	12.456100	1.957840	27.938405	1.044440	0.011903	0.115827	0.028902	0.002204	0.001255	0.079882	0.000381	0.007722	0.004367	0.001226	0.012261
12-Oct-2029	0.024055	7.991550	12.506400	1.965430	28.048541	1.048740	0.011951	0.116296	0.029005	0.002213	0.001260	0.080179	0.000382	0.007751	0.004385	0.001231	0.012309
13-Oct-2029	0.045426	7.967200	12.468300	1.959450	27.963114	1.045540	0.011915	0.115942	0.028916	0.002206	0.001256	0.079935	0.000381	0.007728	0.004372	0.001227	0.012272
14-Oct-2029	0.104074	7.962330	12.461000	1.958200	27.945806	1.044970	0.011908	0.115874	0.028894	0.002205	0.001255	0.079878	0.000381	0.007722	0.004369	0.001226	0.012264
15-Oct-2029	0.162965	7.943360	12.431400	1.953530	27.879206	1.042490	0.011880	0.115599	0.028824	0.002199	0.001252	0.079687	0.000380	0.007704	0.004358	0.001223	0.012235
16-Oct-2029	0.155008	7.945660	12.435000	1.954100	27.887297	1.042790	0.011883	0.115632	0.028832	0.002200	0.001253	0.079710	0.000380	0.007706	0.004360	0.001224	0.012238
17-Oct-2029	0.154377	8.048990	12.596700	1.979510	28.249950	1.056350	0.012038	0.117136	0.029207	0.002229	0.001269	0.080746	0.000385	0.007806	0.004416	0.001240	0.012398
18-Oct-2029	0.158078	8.085870	12.654400	1.988570	28.379349	1.061200	0.012093	0.117673	0.029340	0.002239	0.001275	0.081116	0.000387	0.007842	0.004437	0.001245	0.012454
19-Oct-2029	0.165191	8.105000	12.684400	1.993280	28.446512	1.063720	0.012122	0.117952	0.029409	0.002244	0.001278	0.081307	0.000388	0.007860	0.004447	0.001248	0.012484
20-Oct-2029	0.171805	8.103080	12.681400	1.992800	28.439741	1.063470	0.012119	0.117924	0.029402	0.002244	0.001277	0.081287	0.000388	0.007858	0.004446	0.001248	0.012481

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
21-Oct-2029	0.165202	8.139150	12.737900	2.001670	28.566335	1.068200	0.012173	0.118449	0.029533	0.002254	0.001283	0.081649	0.000389	0.007893	0.004466	0.001254	0.012536
22-Oct-2029	0.163697	8.184380	12.808700	2.012800	28.725107	1.074140	0.012240	0.119107	0.029697	0.002266	0.001290	0.082103	0.000392	0.007937	0.004491	0.001261	0.012606
23-Oct-2029	0.163471	8.230520	12.880900	2.024140	28.887017	1.080190	0.012309	0.119779	0.029864	0.002279	0.001297	0.082566	0.000394	0.007982	0.004516	0.001268	0.012677
24-Oct-2029	0.162766	8.276990	12.953600	2.035570	29.050121	1.086290	0.012379	0.120455	0.030033	0.002292	0.001305	0.083032	0.000396	0.008027	0.004541	0.001275	0.012749
25-Oct-2029	0.162360	8.325880	13.030100	2.047600	29.221739	1.092710	0.012452	0.121167	0.030210	0.002305	0.001312	0.083522	0.000398	0.008075	0.004568	0.001282	0.012824
26-Oct-2029	0.161474	8.390080	13.130600	2.063390	29.447070	1.101130	0.012548	0.122101	0.030443	0.002323	0.001323	0.084166	0.000401	0.008137	0.004604	0.001292	0.012923
27-Oct-2029	0.160892	8.428730	13.191100	2.072890	29.582700	1.106210	0.012606	0.122664	0.030583	0.002334	0.001329	0.084554	0.000403	0.008174	0.004625	0.001298	0.012983
28-Oct-2029	0.160546	8.473830	13.261700	2.083980	29.740983	1.112130	0.012673	0.123320	0.030747	0.002346	0.001336	0.085006	0.000405	0.008218	0.004649	0.001305	0.013052
29-Oct-2029	0.160429	8.514170	13.324800	2.093900	29.882563	1.117420	0.012733	0.123907	0.030893	0.002357	0.001342	0.085411	0.000407	0.008257	0.004672	0.001311	0.013114
30-Oct-2029	0.160252	8.557910	13.393300	2.104660	30.036091	1.123160	0.012799	0.124543	0.031052	0.002369	0.001349	0.085850	0.000409	0.008300	0.004696	0.001318	0.013181
31-Oct-2029	0.160561	8.619780	13.490100	2.119880	30.253257	1.131280	0.012891	0.125444	0.031276	0.002387	0.001359	0.086470	0.000412	0.008360	0.004730	0.001328	0.013277
1-Nov-2029	0.160575	8.670290	13.569200	2.132300	30.430526	1.137910	0.012967	0.126179	0.031460	0.002401	0.001367	0.086977	0.000415	0.008409	0.004757	0.001335	0.013355
2-Nov-2029	0.160262	8.697460	13.611700	2.138980	30.525877	1.141480	0.013008	0.126574	0.031558	0.002408	0.001371	0.087250	0.000416	0.008435	0.004772	0.001340	0.013396
3-Nov-2029	0.160250	8.742160	13.681600	2.149970	30.682750	1.147340	0.013074	0.127225	0.031720	0.002420	0.001378	0.087698	0.000418	0.008478	0.004797	0.001347	0.013465
4-Nov-2029	0.160325	8.785980	13.750200	2.160750	30.836561	1.153090	0.013140	0.127863	0.031879	0.002433	0.001385	0.088138	0.000420	0.008521	0.004821	0.001353	0.013533
5-Nov-2029	0.160386	8.827920	13.815800	2.171070	30.983783	1.158600	0.013203	0.128473	0.032032	0.002444	0.001392	0.088558	0.000422	0.008561	0.004844	0.001360	0.013597
6-Nov-2029	0.160399	8.860880	13.867400	2.179170	31.099439	1.162920	0.013252	0.128953	0.032151	0.002453	0.001397	0.088889	0.000424	0.008593	0.004862	0.001365	0.013648
7-Nov-2029	0.160516	8.909500	13.943500	2.191130	31.270095	1.169300	0.013325	0.129660	0.032327	0.002467	0.001404	0.089377	0.000426	0.008640	0.004889	0.001372	0.013723
8-Nov-2029	0.160548	8.955910	14.016200	2.202550	31.433008	1.175400	0.013394	0.130336	0.032496	0.002480	0.001412	0.089842	0.000428	0.008685	0.004914	0.001379	0.013795
9-Nov-2029	0.160578	9.003300	14.090300	2.214200	31.599316	1.181620	0.013465	0.131025	0.032668	0.002493	0.001419	0.090318	0.000431	0.008731	0.004940	0.001387	0.013868
10-Nov-2029	0.160626	9.053700	14.169200	2.226600	31.776228	1.188230	0.013540	0.131759	0.032851	0.002507	0.001427	0.090823	0.000433	0.008780	0.004968	0.001395	0.013945
11-Nov-2029	0.160669	9.103550	14.247200	2.238860	31.951190	1.194770	0.013615	0.132484	0.033031	0.002521	0.001435	0.091323	0.000436	0.008829	0.004995	0.001402	0.014022
12-Nov-2029	0.160725	9.160140	14.335800	2.252770	32.149776	1.202200	0.013700	0.133308	0.033237	0.002536	0.001444	0.091891	0.000438	0.008884	0.005026	0.001411	0.014109
13-Nov-2029	0.160806	9.220500	14.430300	2.267620	32.361648	1.210120	0.013790	0.134186	0.033456	0.002553	0.001453	0.092497	0.000441	0.008942	0.005059	0.001420	0.014202
14-Nov-2029	0.160830	9.277960	14.520200	2.281750	32.563313	1.217660	0.013876	0.135022	0.033664	0.002569	0.001463	0.093073	0.000444	0.008998	0.005091	0.001429	0.014291
15-Nov-2029	0.160812	9.345240	14.625500	2.298300	32.799464	1.226490	0.013976	0.136002	0.033908	0.002587	0.001473	0.093748	0.000447	0.009063	0.005128	0.001439	0.014394
16-Nov-2029	0.160715	9.406980	14.722100	2.313480	33.016140	1.234600	0.014069	0.136900	0.034132	0.002605	0.001483	0.094367	0.000450	0.009123	0.005161	0.001449	0.014489
17-Nov-2029	0.160708	9.471570	14.823200	2.329370	33.242856	1.243070	0.014165	0.137840	0.034367	0.002622	0.001493	0.095015	0.000453	0.009186	0.005197	0.001459	0.014589
18-Nov-2029	0.160686	9.538950	14.928600	2.345940	33.479339	1.251920	0.014266	0.138821	0.034611	0.002641	0.001504	0.095691	0.000456	0.009251	0.005234	0.001469	0.014693
19-Nov-2029	0.160666	9.605070	15.032100	2.362200	33.711399	1.260590	0.014365	0.139783	0.034851	0.002659	0.001514	0.096354	0.000460	0.009315	0.005270	0.001479	0.014794
20-Nov-2029	0.160658	9.660850	15.119400	2.375920	33.907181	1.267920	0.014448	0.140595	0.035053	0.002675	0.001523	0.096914	0.000462	0.009369	0.005301	0.001488	0.014880
21-Nov-2029	0.160654	9.715100	15.204300	2.389260	34.097577	1.275030	0.014530	0.141384	0.035250	0.002690	0.001531	0.097458	0.000465	0.009422	0.005331	0.001496	0.014964
22-Nov-2029	0.160652	9.762310	15.278200	2.400870	34.263271	1.281230	0.014600	0.142071	0.035421	0.002703	0.001539	0.097932	0.000467	0.009468	0.005356	0.001504	0.015037
23-Nov-2029	0.160650	9.812900	15.357400	2.413310	34.440822	1.287870	0.014676	0.142807	0.035605	0.002717	0.001547	0.098439	0.000469	0.009517	0.005384	0.001511	0.015115
24-Nov-2029	0.160648	9.870110	15.446900	2.427380	34.641616	1.295380	0.014761	0.143640	0.035813	0.002733	0.001556	0.099013	0.000472	0.009572	0.005416	0.001520	0.015203
25-Nov-2029	0.160636	9.800100	15.337300	2.410160	34.395889	1.286190	0.014657	0.142621	0.035559	0.002713	0.001545	0.098311	0.000469	0.009504	0.005377	0.001509	0.015095
26-Nov-2029	0.160636	9.852940	15.420000	2.423160	34.581364	1.293120	0.014736	0.143390	0.035750	0.002728	0.001553	0.098841	0.000471	0.009555	0.005406	0.001518	0.015176
27-Nov-2029	0.160636	9.907030	15.504700	2.436460	34.771196	1.300220	0.014817	0.144177	0.035947	0.002743	0.001562	0.099383	0.000474	0.009608	0.005436	0.001526	0.015259
28-Nov-2029	0.160635	9.938950	15.554600	2.444310	34.883227	1.304410	0.014864	0.144642	0.036062	0.002752	0.001567	0.099704	0.000476	0.009639	0.005453	0.001531	0.015309
29-Nov-2029	0.160635	9.988210	15.631700	2.456430	35.056139	1.310880	0.014938	0.145359	0.036241	0.002765	0.001574	0.100198	0.000478	0.009687	0.005480	0.001538	0.015385
30-Nov-2029	0.160635	10.039200	15.711500	2.468970	35.235101	1.317570	0.015014	0.146101	0.036426	0.002780	0.001583	0.100709	0.000480	0.009736	0.005508	0.001546	0.015463
1-Dec-2029	0.160635	10.089600	15.790400	2.481360	35.411972	1.324190	0.015090	0.146834	0.036609	0.002794	0.001590	0.101215	0.000483	0.009785	0.005536	0.001554	0.015541
2-Dec-2029	0.160635	10.140600	15.870200	2.493910	35.591000	1.330880	0.015166	0.147577	0.036794	0.002808	0.001598	0.101727	0.000485	0.009834	0.005564	0.001562	0.015619
3-Dec-2029	0.160635	10.194100	15.954000	2.507070	35.778782	1.337900	0.015246	0.148355	0.036988	0.002822	0.001607	0.102264	0.000488	0.009886	0.005593	0.001570	0.015702
4-Dec-2029	0.160636	10.250100	16.041700	2.520840	35.975319	1.345260	0.015330	0.149171	0.037192	0.002838	0.001616	0.102825	0.000490	0.009941	0.005624	0.001579	0.015788
5-Dec-2029	0.160635	10.307700	16.131800	2.535010	36.177498	1.352810	0.015416	0.150009	0.037401	0.002854	0.001625	0.103403	0.000493	0.009996	0.005656	0.001588	0.015877
6-Dec-2029	0.160635	10.362800	16.217900	2.548540	36.370799	1.360040	0.015498	0.150810	0.037600	0.002869	0.001634	0.103955	0.000496	0.010050	0.005686	0.001596	0.015961
7-Dec-2029	0.160635	10.414600	16.299100	2.561300	36.552690	1.366840	0.015576	0.151565	0.037788	0.002884	0.001642	0.104476	0.000498	0.010100	0.005714	0.001604	0.016041
8-Dec-2029	0.160635	10.471400	16.388000	2.575270	36.752048	1.374300	0.015661	0.152391	0.037994	0.002899	0.001651	0.105045	0.000501	0.010155	0.005746	0.001613	0.016129
9-Dec-2029	0.160635	10.540900	16.496700	2.592350	36.995925	1.383420	0.015765	0.153402	0.038247	0.002919	0.001662	0.105742	0.000504	0.010223	0.005784	0.001624	0.016236
10-Dec-2029	0.160635	10.597100	16.584700	2.606180	37.193208	1.390790	0.015849	0.154220	0.038451	0.002934	0.001670	0.106306	0.000507	0.010277	0.005815	0.001632	0.016322

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
11-Dec-2029	0.160635	10.654600	16.674700	2.620320	37.395014	1.398340	0.015935	0.155057	0.038659	0.002950	0.001680	0.106883	0.000510	0.010333	0.005846	0.001641	0.016411
12-Dec-2029	0.160635	10.712300	16.765000	2.634510	37.597525	1.405910	0.016021	0.155897	0.038868	0.002966	0.001689	0.107462	0.000513	0.010389	0.005878	0.001650	0.016500
13-Dec-2029	0.160635	10.773400	16.860600	2.649530	37.811944	1.413930	0.016112	0.156786	0.039090	0.002983	0.001698	0.108075	0.000515	0.010448	0.005911	0.001659	0.016594
14-Dec-2029	0.160635	10.837500	16.960900	2.665290	38.036902	1.422340	0.016208	0.157718	0.039323	0.003001	0.001708	0.108718	0.000518	0.010510	0.005946	0.001669	0.016693
15-Dec-2029	0.160635	10.896500	17.053300	2.679810	38.244018	1.430090	0.016296	0.158578	0.039537	0.003017	0.001718	0.109310	0.000521	0.010568	0.005979	0.001678	0.016784
16-Dec-2029	0.160635	10.957500	17.148700	2.694810	38.458105	1.438090	0.016388	0.159465	0.039758	0.003034	0.001727	0.109921	0.000524	0.010627	0.006012	0.001688	0.016878
17-Dec-2029	0.160635	11.008300	17.228200	2.707290	38.636345	1.444760	0.016464	0.160204	0.039942	0.003048	0.001735	0.110431	0.000527	0.010676	0.006040	0.001696	0.016956
18-Dec-2029	0.160635	11.067300	17.320400	2.721800	38.843421	1.452490	0.016552	0.161062	0.040156	0.003064	0.001745	0.111022	0.000529	0.010733	0.006072	0.001705	0.017047
19-Dec-2029	0.160635	11.117500	17.399100	2.734150	39.019627	1.459090	0.016627	0.161793	0.040339	0.003078	0.001752	0.111526	0.000532	0.010782	0.006100	0.001712	0.017124
20-Dec-2029	0.160635	11.174000	17.487500	2.748050	39.217948	1.466510	0.016711	0.162616	0.040544	0.003094	0.001761	0.112093	0.000535	0.010837	0.006131	0.001721	0.017211
21-Dec-2029	0.160634	11.227100	17.570600	2.761100	39.404279	1.473470	0.016791	0.163388	0.040736	0.003108	0.001770	0.112626	0.000537	0.010888	0.006160	0.001729	0.017293
22-Dec-2029	0.160634	11.283700	17.659200	2.775040	39.603014	1.480910	0.016876	0.164212	0.040942	0.003124	0.001779	0.113194	0.000540	0.010943	0.006191	0.001738	0.017380
23-Dec-2029	0.160634	11.343600	17.753000	2.789770	39.813242	1.488770	0.016965	0.165084	0.041159	0.003141	0.001788	0.113795	0.000543	0.011001	0.006224	0.001747	0.017472
24-Dec-2029	0.160634	11.402700	17.845400	2.804290	40.020608	1.496520	0.017053	0.165943	0.041373	0.003157	0.001797	0.114387	0.000546	0.011058	0.006257	0.001756	0.017563
25-Dec-2029	0.160634	11.461800	17.937900	2.818820	40.228015	1.504270	0.017142	0.166804	0.041588	0.003173	0.001807	0.114980	0.000548	0.011116	0.006289	0.001765	0.017654
26-Dec-2029	0.160634	11.523100	18.033900	2.833910	40.443222	1.512330	0.017234	0.167697	0.041810	0.003190	0.001816	0.115596	0.000551	0.011175	0.006323	0.001775	0.017749
27-Dec-2029	0.160634	11.585300	18.131200	2.849200	40.661500	1.520480	0.017326	0.168601	0.042036	0.003208	0.001826	0.116219	0.000554	0.011235	0.006357	0.001784	0.017844
28-Dec-2029	0.160634	11.647900	18.229200	2.864610	40.881270	1.528710	0.017420	0.169513	0.042263	0.003225	0.001836	0.116848	0.000557	0.011296	0.006391	0.001794	0.017941
29-Dec-2029	0.160634	11.710800	18.327600	2.880060	41.101955	1.536950	0.017514	0.170427	0.042491	0.003242	0.001846	0.117478	0.000560	0.011357	0.006426	0.001804	0.018038
30-Dec-2029	0.160634	11.773500	18.425700	2.895480	41.322016	1.545180	0.017608	0.171340	0.042719	0.003260	0.001856	0.118107	0.000563	0.011418	0.006460	0.001813	0.018134
31-Dec-2029	0.160634	11.835900	18.523400	2.910830	41.541040	1.553370	0.017701	0.172248	0.042945	0.003277	0.001866	0.118733	0.000566	0.011479	0.006494	0.001823	0.018230
1-Jan-2030	0.160634	11.899000	18.622100	2.926340	41.762471	1.561650	0.017796	0.173166	0.043174	0.003295	0.001876	0.119366	0.000569	0.011540	0.006529	0.001833	0.018328
2-Jan-2030	0.160634	11.959700	18.717100	2.941280	41.975562	1.569620	0.017886	0.174050	0.043394	0.003311	0.001885	0.119975	0.000572	0.011599	0.006562	0.001842	0.018421
3-Jan-2030	0.160634	12.021500	18.813900	2.956480	42.192470	1.577730	0.017979	0.174949	0.043619	0.003328	0.001895	0.120595	0.000575	0.011659	0.006596	0.001852	0.018516
4-Jan-2030	0.160634	12.081500	18.907800	2.971230	42.403031	1.585610	0.018069	0.175822	0.043836	0.003345	0.001904	0.121197	0.000578	0.011717	0.006629	0.001861	0.018609
5-Jan-2030	0.160634	12.143900	19.005400	2.986570	42.622014	1.593790	0.018162	0.176730	0.044063	0.003362	0.001914	0.121822	0.000581	0.011777	0.006663	0.001870	0.018705
6-Jan-2030	0.160634	12.206800	19.103800	3.002040	42.842780	1.602050	0.018256	0.177645	0.044291	0.003380	0.001924	0.122453	0.000584	0.011838	0.006698	0.001880	0.018802
7-Jan-2030	0.160634	12.271900	19.205800	3.018060	43.071305	1.610600	0.018353	0.178594	0.044527	0.003398	0.001934	0.123107	0.000587	0.011901	0.006733	0.001890	0.018902
8-Jan-2030	0.160634	12.333000	19.301400	3.033090	43.285766	1.618620	0.018445	0.179483	0.044749	0.003415	0.001944	0.123720	0.000590	0.011961	0.006767	0.001900	0.018996
9-Jan-2030	0.160634	12.396700	19.401000	3.048750	43.509312	1.626970	0.018540	0.180409	0.044980	0.003432	0.001954	0.124359	0.000593	0.012022	0.006802	0.001909	0.019094
10-Jan-2030	0.160634	12.472200	19.519300	3.067320	43.774307	1.636890	0.018653	0.181509	0.045254	0.003453	0.001966	0.125116	0.000597	0.012096	0.006843	0.001921	0.019211
11-Jan-2030	0.160634	12.537600	19.621600	3.083400	44.003828	1.645470	0.018751	0.182460	0.045491	0.003471	0.001976	0.125772	0.000600	0.012159	0.006879	0.001931	0.019311
12-Jan-2030	0.160634	12.598300	19.716600	3.098340	44.216919	1.653440	0.018842	0.183344	0.045712	0.003488	0.001986	0.126382	0.000603	0.012218	0.006913	0.001940	0.019405
13-Jan-2030	0.160634	12.656400	19.807500	3.112620	44.420800	1.661060	0.018928	0.184189	0.045922	0.003504	0.001995	0.126964	0.000606	0.012274	0.006944	0.001949	0.019494
14-Jan-2030	0.160634	12.723200	19.912100	3.129060	44.655299	1.669830	0.019028	0.185162	0.046165	0.003523	0.002006	0.127635	0.000609	0.012339	0.006981	0.001960	0.019597
15-Jan-2030	0.160634	12.793700	20.022300	3.146380	44.902662	1.679070	0.019134	0.186186	0.046420	0.003542	0.002017	0.128341	0.000612	0.012407	0.007020	0.001971	0.019706
16-Jan-2030	0.160634	12.859900	20.126000	3.162670	45.135045	1.687770	0.019233	0.187151	0.046661	0.003561	0.002027	0.129006	0.000615	0.012472	0.007056	0.001981	0.019808
17-Jan-2030	0.160634	12.924300	20.226700	3.178490	45.360999	1.696210	0.019329	0.188087	0.046894	0.003578	0.002037	0.129651	0.000618	0.012534	0.007091	0.001991	0.019907
18-Jan-2030	0.160634	12.992200	20.333100	3.195220	45.599439	1.705140	0.019431	0.189077	0.047141	0.003597	0.002048	0.130333	0.000622	0.012600	0.007129	0.002001	0.020012
19-Jan-2030	0.160634	13.060100	20.439300	3.211900	45.837674	1.714040	0.019532	0.190064	0.047387	0.003616	0.002059	0.131014	0.000625	0.012666	0.007166	0.002012	0.020116
20-Jan-2030	0.160634	13.128400	20.546200	3.228700	46.077401	1.723000	0.019634	0.191058	0.047635	0.003635	0.002069	0.131699	0.000628	0.012732	0.007203	0.002022	0.020221
21-Jan-2030	0.160634	13.196500	20.652800	3.245450	46.316424	1.731940	0.019736	0.192049	0.047882	0.003654	0.002080	0.132382	0.000631	0.012798	0.007241	0.002033	0.020326
22-Jan-2030	0.160634	13.265100	20.760200	3.262330	46.557230	1.740950	0.019839	0.193048	0.048131	0.003673	0.002091	0.133071	0.000635	0.012865	0.007278	0.002043	0.020432
23-Jan-2030	0.160634	13.332200	20.865200	3.278830	46.792725	1.749760	0.019939	0.194024	0.048375	0.003691	0.002102	0.133744	0.000638	0.012930	0.007315	0.002054	0.020535
24-Jan-2030	0.160634	13.401000	20.972800	3.295740	47.034154	1.758780	0.020042	0.195025	0.048624	0.003710	0.002112	0.134433	0.000641	0.012996	0.007353	0.002064	0.020641
25-Jan-2030	0.160634	13.471000	21.082300	3.312950	47.279815	1.767960	0.020147	0.196043	0.048878	0.003730	0.002123	0.135135	0.000644	0.013064	0.007391	0.002075	0.020749
26-Jan-2030	0.160634	13.544800	21.197900	3.331120	47.538918	1.777660	0.020257	0.197118	0.049146	0.003750	0.002135	0.135877	0.000648	0.013136	0.007432	0.002086	0.020863
27-Jan-2030	0.160634	13.597000	21.279500	3.343930	47.722013	1.784500	0.020335	0.197877	0.049335	0.003765	0.002143	0.136399	0.000651	0.013186	0.007460	0.002094	0.020943
28-Jan-2030	0.160634	13.647200	21.358100	3.356280	47.898219	1.791090	0.020410	0.198608	0.049517	0.003779	0.002151	0.136903	0.000653	0.013235	0.007488	0.002102	0.021020
29-Jan-2030	0.160634	13.720600	21.473000	3.374350	48.155912	1.800730	0.020520	0.199677	0.049784	0.003799	0.002163	0.137640	0.000656	0.013306	0.007528	0.002113	0.021133
30-Jan-2030	0.160634	13.792000	21.584700	3.391890	48.406427	1.810090	0.020627	0.200715	0.050043	0.003819	0.002174	0.138356	0.000660	0.013376	0.007567	0.002124	0.021243

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
31-Jan-2030	0.160634	13.884500	21.729500	3.414650	48.731125	1.822240	0.020765	0.202062	0.050378	0.003844	0.002189	0.139284	0.000664	0.013465	0.007618	0.002139	0.021386
1-Feb-2030	0.160634	13.985100	21.886900	3.439380	49.084162	1.835440	0.020916	0.203525	0.050743	0.003872	0.002205	0.140293	0.000669	0.013563	0.007673	0.002154	0.021541
2-Feb-2030	0.160634	14.084200	22.042000	3.463760	49.432011	1.848440	0.021064	0.204967	0.051103	0.003900	0.002220	0.141287	0.000674	0.013659	0.007728	0.002169	0.021693
3-Feb-2030	0.160634	14.181000	22.193600	3.487580	49.771811	1.861150	0.021209	0.206377	0.051454	0.003926	0.002235	0.142259	0.000678	0.013753	0.007781	0.002184	0.021843
4-Feb-2030	0.160634	14.275000	22.340600	3.510680	50.101655	1.873480	0.021349	0.207744	0.051795	0.003952	0.002250	0.143201	0.000683	0.013844	0.007833	0.002199	0.021987
5-Feb-2030	0.160634	14.366400	22.483600	3.533160	50.422454	1.885480	0.021486	0.209074	0.052127	0.003978	0.002265	0.144118	0.000687	0.013933	0.007883	0.002213	0.022128
6-Feb-2030	0.160634	14.480000	22.661400	3.561100	50.821170	1.900390	0.021656	0.210728	0.052539	0.004009	0.002283	0.145258	0.000693	0.014043	0.007945	0.002230	0.022303
7-Feb-2030	0.160634	14.586600	22.828200	3.587310	51.195283	1.914380	0.021815	0.212279	0.052926	0.004039	0.002299	0.146327	0.000698	0.014146	0.008003	0.002247	0.022467
8-Feb-2030	0.160634	14.443800	22.604800	3.552200	50.694128	1.895640	0.021602	0.210201	0.052408	0.003999	0.002277	0.144895	0.000691	0.014008	0.007925	0.002225	0.022247
9-Feb-2030	0.160634	14.521100	22.725700	3.571200	50.965388	1.905780	0.021717	0.211325	0.052688	0.004020	0.002289	0.145670	0.000695	0.014083	0.007968	0.002237	0.022366
10-Feb-2030	0.160634	14.599100	22.847900	3.590400	51.239220	1.916030	0.021834	0.212461	0.052971	0.004042	0.002301	0.146453	0.000698	0.014158	0.008010	0.002249	0.022487
11-Feb-2030	0.160634	14.678400	22.971900	3.609890	51.517492	1.926430	0.021952	0.213615	0.053259	0.004064	0.002314	0.147248	0.000702	0.014235	0.008054	0.002261	0.022609
12-Feb-2030	0.160634	14.758400	23.097100	3.629560	51.798253	1.936930	0.022072	0.214779	0.053549	0.004086	0.002326	0.148050	0.000706	0.014313	0.008098	0.002273	0.022732
13-Feb-2030	0.160634	14.837300	23.220600	3.648970	52.075197	1.947280	0.022190	0.215927	0.053835	0.004108	0.002339	0.148842	0.000710	0.014389	0.008141	0.002285	0.022853
14-Feb-2030	0.160634	14.916500	23.344600	3.668450	52.353178	1.957680	0.022309	0.217080	0.054123	0.004130	0.002351	0.149636	0.000714	0.014466	0.008185	0.002298	0.022975
15-Feb-2030	0.160634	14.997400	23.471100	3.688340	52.637092	1.968290	0.022429	0.218257	0.054416	0.004152	0.002364	0.150448	0.000718	0.014545	0.008229	0.002310	0.023100
16-Feb-2030	0.160634	15.075900	23.594000	3.707650	52.912625	1.978600	0.022547	0.219400	0.054701	0.004174	0.002376	0.151235	0.000721	0.014621	0.008272	0.002322	0.023221
17-Feb-2030	0.160634	15.154400	23.717000	3.726970	53.188199	1.988910	0.022664	0.220543	0.054986	0.004196	0.002389	0.152023	0.000725	0.014697	0.008315	0.002334	0.023342
18-Feb-2030	0.160634	15.224200	23.826200	3.744140	53.433196	1.998070	0.022769	0.221559	0.055240	0.004215	0.002400	0.152724	0.000728	0.014765	0.008353	0.002345	0.023449
19-Feb-2030	0.160634	15.320100	23.976200	3.767700	53.769678	2.010640	0.022912	0.222953	0.055587	0.004242	0.002415	0.153685	0.000733	0.014857	0.008406	0.002360	0.023597
20-Feb-2030	0.160634	15.564600	24.358900	3.827840	54.627851	2.042740	0.023278	0.226512	0.056474	0.004309	0.002453	0.156138	0.000745	0.015095	0.008540	0.002397	0.023974
21-Feb-2030	0.160634	15.822100	24.761800	3.891160	55.531581	2.076530	0.023663	0.230259	0.057409	0.004381	0.002494	0.158721	0.000757	0.015344	0.008681	0.002437	0.024370
22-Feb-2030	0.160634	16.132800	25.248200	3.967590	56.622137	2.117320	0.024128	0.234782	0.058536	0.004467	0.002543	0.161838	0.000772	0.015646	0.008852	0.002485	0.024849
23-Feb-2030	0.160634	16.470800	25.777100	4.050710	57.808411	2.161670	0.024633	0.239700	0.059763	0.004560	0.002596	0.165229	0.000788	0.015973	0.009037	0.002537	0.025369
24-Feb-2030	0.160634	16.820900	26.325100	4.136820	59.037212	2.207620	0.025157	0.244796	0.061033	0.004657	0.002652	0.168741	0.000805	0.016313	0.009229	0.002591	0.025909
25-Feb-2030	0.160634	17.180400	26.887600	4.225210	60.298874	2.254800	0.025694	0.250027	0.062337	0.004757	0.002708	0.172347	0.000822	0.016662	0.009427	0.002646	0.026462
26-Feb-2030	0.160634	17.487400	27.368000	4.300710	61.376362	2.295090	0.026153	0.254494	0.063451	0.004842	0.002757	0.175426	0.000837	0.016959	0.009595	0.002694	0.026935
27-Feb-2030	0.160634	17.698000	27.697700	4.352510	62.115542	2.322730	0.026468	0.257559	0.064215	0.004900	0.002790	0.177539	0.000847	0.017164	0.009711	0.002726	0.027260
28-Feb-2030	0.160634	17.878600	27.980300	4.396920	62.749381	2.346430	0.026738	0.260187	0.064870	0.004950	0.002818	0.179351	0.000855	0.017339	0.009810	0.002754	0.027538
1-Mar-2030	0.160634	18.071000	28.281400	4.444240	63.424667	2.371680	0.027026	0.262987	0.065568	0.005003	0.002849	0.181281	0.000865	0.017525	0.009915	0.002783	0.027834
2-Mar-2030	0.160634	15.669500	24.523000	3.853630	54.995990	2.056500	0.023435	0.228038	0.056855	0.004338	0.002470	0.157190	0.000750	0.015196	0.008598	0.002414	0.024135
3-Mar-2030	0.160634	15.731900	24.620600	3.868970	55.214973	2.064690	0.023528	0.228946	0.057081	0.004356	0.002480	0.157816	0.000753	0.015257	0.008632	0.002423	0.024231
4-Mar-2030	0.160634	15.800100	24.727400	3.885750	55.454368	2.073640	0.023630	0.229939	0.057329	0.004375	0.002491	0.158500	0.000756	0.015323	0.008669	0.002434	0.024336
5-Mar-2030	0.160634	15.876400	24.846900	3.904530	55.722225	2.083660	0.023744	0.231050	0.057606	0.004396	0.002503	0.159266	0.000760	0.015397	0.008711	0.002445	0.024454
6-Mar-2030	0.160634	15.958900	24.975900	3.924800	56.011700	2.094480	0.023867	0.232250	0.057905	0.004419	0.002516	0.160093	0.000764	0.015477	0.008756	0.002458	0.024581
7-Mar-2030	0.160634	16.045100	25.110900	3.946010	56.314284	2.105800	0.023996	0.233505	0.058218	0.004442	0.002529	0.160958	0.000768	0.015561	0.008804	0.002471	0.024714
8-Mar-2030	0.160634	16.134600	25.250900	3.968020	56.628403	2.117540	0.024130	0.234807	0.058543	0.004467	0.002543	0.161856	0.000772	0.015647	0.008853	0.002485	0.024852
9-Mar-2030	0.160634	16.226800	25.395300	3.990710	56.952063	2.129650	0.024268	0.236150	0.058877	0.004493	0.002558	0.162781	0.000776	0.015737	0.008903	0.002499	0.024994
10-Mar-2030	0.160634	16.322300	25.544700	4.014190	57.287218	2.142180	0.024411	0.237539	0.059224	0.004519	0.002573	0.163739	0.000781	0.015829	0.008956	0.002514	0.025141
11-Mar-2030	0.160634	16.422800	25.701900	4.038890	57.639881	2.155370	0.024561	0.239001	0.059588	0.004547	0.002589	0.164747	0.000786	0.015927	0.009011	0.002530	0.025295
12-Mar-2030	0.160634	16.528900	25.868000	4.064990	58.012292	2.169290	0.024720	0.240545	0.059973	0.004576	0.002605	0.165811	0.000791	0.016030	0.009069	0.002546	0.025459
13-Mar-2030	0.160634	16.640100	26.042000	4.092340	58.402586	2.183890	0.024886	0.242163	0.060377	0.004607	0.002623	0.166927	0.000796	0.016138	0.009130	0.002563	0.025630
14-Mar-2030	0.160634	16.757200	26.225300	4.121130	58.813542	2.199250	0.025061	0.243867	0.060802	0.004640	0.002641	0.168101	0.000802	0.016251	0.009194	0.002581	0.025811
15-Mar-2030	0.160634	16.940200	26.511700	4.166150	59.455885	2.223280	0.025335	0.246531	0.061466	0.004690	0.002670	0.169938	0.000810	0.016429	0.009295	0.002609	0.026092
16-Mar-2030	0.160634	17.092100	26.749500	4.203510	59.989028	2.243210	0.025562	0.248742	0.062017	0.004732	0.002694	0.171461	0.000818	0.016576	0.009378	0.002633	0.026326
17-Mar-2030	0.160634	17.251000	26.998200	4.242590	60.546733	2.264070	0.025800	0.251055	0.062593	0.004776	0.002719	0.173056	0.000825	0.016730	0.009465	0.002657	0.026571
18-Mar-2030	0.160634	17.428700	27.276200	4.286280	61.170365	2.287380	0.026066	0.253640	0.063238	0.004826	0.002747	0.174838	0.000834	0.016902	0.009563	0.002684	0.026845
19-Mar-2030	0.160634	17.620900	27.577000	4.333550	61.844946	2.312610	0.026353	0.256437	0.063935	0.004879	0.002778	0.176766	0.000843	0.017089	0.009668	0.002714	0.027141
20-Mar-2030	0.160634	17.823000	27.893400	4.383270	62.554337	2.339140	0.026655	0.259379	0.064669	0.004935	0.002809	0.178794	0.000853	0.017285	0.009779	0.002745	0.027452
21-Mar-2030	0.160634	17.945600	28.085200	4.413400	62.984544	2.355220	0.026839	0.261162	0.065114	0.004969	0.002829	0.180023	0.000859	0.017404	0.009847	0.002764	0.027641
22-Mar-2030	0.160634	18.147300	28.400800	4.463000	63.692442	2.381690	0.027140	0.264098	0.065845	0.005024	0.002861	0.182046	0.000868	0.017599	0.009957	0.002795	0.027952

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Mar-2030	0.160634	18.353500	28.723600	4.513730	64.416230	2.408760	0.027449	0.267099	0.066594	0.005082	0.002893	0.184115	0.000878	0.017799	0.010070	0.002827	0.028269
24-Mar-2030	0.160634	18.564100	29.053100	4.565510	65.155328	2.436400	0.027764	0.270163	0.067358	0.005140	0.002926	0.186227	0.000888	0.018004	0.010186	0.002859	0.028594
25-Mar-2030	0.160634	18.779200	29.389800	4.618410	65.910275	2.464630	0.028085	0.273294	0.068138	0.005199	0.002960	0.188385	0.000898	0.018212	0.010304	0.002892	0.028925
26-Mar-2030	0.160634	18.998100	29.732400	4.672250	66.678581	2.493360	0.028413	0.276480	0.068933	0.005260	0.002995	0.190582	0.000909	0.018424	0.010424	0.002926	0.029262
27-Mar-2030	0.160634	19.222200	30.083100	4.727360	67.465102	2.522770	0.028748	0.279741	0.069746	0.005322	0.003030	0.192830	0.000920	0.018642	0.010547	0.002961	0.029607
28-Mar-2030	0.160634	19.451700	30.442200	4.783790	68.270542	2.552890	0.029091	0.283080	0.070578	0.005386	0.003066	0.195131	0.000931	0.018864	0.010673	0.002996	0.029961
29-Mar-2030	0.160634	19.684800	30.807000	4.841120	69.088678	2.583480	0.029440	0.286473	0.071424	0.005450	0.003103	0.197470	0.000942	0.019090	0.010801	0.003032	0.030320
30-Mar-2030	0.160634	19.927300	31.186500	4.900760	69.939798	2.615300	0.029802	0.290002	0.072304	0.005517	0.003141	0.199902	0.000953	0.019326	0.010934	0.003069	0.030693
31-Mar-2030	0.160634	20.179000	31.580500	4.962670	70.823238	2.648340	0.030179	0.293665	0.073217	0.005587	0.003181	0.202428	0.000965	0.019570	0.011072	0.003108	0.031081
1-Apr-2030	0.160634	20.433600	31.978900	5.025280	71.716802	2.681760	0.030560	0.297370	0.074141	0.005658	0.003221	0.204982	0.000978	0.019817	0.011212	0.003147	0.031473
2-Apr-2030	0.160634	20.594200	32.230300	5.064780	72.280481	2.702830	0.030800	0.299708	0.074724	0.005702	0.003246	0.206593	0.000985	0.019972	0.011300	0.003172	0.031721
3-Apr-2030	0.160634	20.657600	32.329600	5.080390	72.503073	2.711160	0.030895	0.300631	0.074954	0.005720	0.003256	0.207229	0.000988	0.020034	0.011335	0.003182	0.031818
4-Apr-2030	0.160634	20.691400	32.382500	5.088700	72.621692	2.715600	0.030945	0.301123	0.075077	0.005729	0.003262	0.207568	0.000990	0.020067	0.011353	0.003187	0.031870
5-Apr-2030	0.160634	20.714200	32.418100	5.094290	72.701644	2.718580	0.030979	0.301454	0.075159	0.005735	0.003265	0.207796	0.000991	0.020089	0.011366	0.003191	0.031905
6-Apr-2030	0.160634	20.731200	32.444700	5.098480	72.761347	2.720820	0.031005	0.301702	0.075221	0.005740	0.003268	0.207967	0.000992	0.020105	0.011375	0.003193	0.031932
7-Apr-2030	0.160634	20.744400	32.465400	5.101730	72.807691	2.722550	0.031025	0.301894	0.075269	0.005744	0.003270	0.208100	0.000992	0.020118	0.011382	0.003195	0.031952
8-Apr-2030	0.160634	20.754700	32.481400	5.104250	72.843787	2.723900	0.031040	0.302043	0.075306	0.005746	0.003272	0.208203	0.000993	0.020128	0.011388	0.003197	0.031968
9-Apr-2030	0.160634	20.762400	32.493600	5.106160	72.870880	2.724920	0.031051	0.302156	0.075334	0.005749	0.003273	0.208281	0.000993	0.020135	0.011392	0.003198	0.031980
10-Apr-2030	0.160634	20.768200	32.502500	5.107560	72.891127	2.725670	0.031060	0.302239	0.075355	0.005750	0.003274	0.208338	0.000994	0.020141	0.011395	0.003199	0.031988
11-Apr-2030	0.160634	20.772100	32.508700	5.108530	72.904860	2.726180	0.031066	0.302297	0.075369	0.005751	0.003274	0.208378	0.000994	0.020145	0.011397	0.003199	0.031995
12-Apr-2030	0.160634	20.774500	32.512500	5.109130	72.913324	2.726500	0.031070	0.302332	0.075378	0.005752	0.003275	0.208402	0.000994	0.020147	0.011399	0.003200	0.031998
13-Apr-2030	0.160634	20.775600	32.514100	5.109380	72.917100	2.726640	0.031071	0.302347	0.075382	0.005752	0.003275	0.208412	0.000994	0.020148	0.011399	0.003200	0.032000
14-Apr-2030	0.160634	20.775300	32.513700	5.109310	72.916063	2.726600	0.031071	0.302343	0.075381	0.005752	0.003275	0.208409	0.000994	0.020148	0.011399	0.003200	0.031999
15-Apr-2030	0.160634	20.774400	32.512300	5.109090	72.912909	2.726480	0.031069	0.302330	0.075377	0.005752	0.003275	0.208400	0.000994	0.020147	0.011399	0.003200	0.031998
16-Apr-2030	0.160634	20.773300	32.510500	5.108820	72.909051	2.726340	0.031068	0.302314	0.075373	0.005752	0.003275	0.208389	0.000994	0.020146	0.011398	0.003200	0.031996
17-Apr-2030	0.160634	20.772100	32.508800	5.108540	72.904901	2.726190	0.031066	0.302298	0.075369	0.005751	0.003274	0.208378	0.000994	0.020145	0.011397	0.003199	0.031995
18-Apr-2030	0.160634	20.771100	32.507100	5.108280	72.901334	2.726050	0.031064	0.302282	0.075366	0.005751	0.003274	0.208367	0.000994	0.020144	0.011397	0.003199	0.031993
19-Apr-2030	0.160634	20.770100	32.505600	5.108040	72.897848	2.725920	0.031063	0.302268	0.075362	0.005751	0.003274	0.208358	0.000994	0.020143	0.011396	0.003199	0.031992
20-Apr-2030	0.160634	20.769200	32.504200	5.107830	72.894736	2.725810	0.031062	0.302255	0.075359	0.005750	0.003274	0.208349	0.000994	0.020142	0.011396	0.003199	0.031990
21-Apr-2030	0.160634	20.768500	32.503000	5.107640	72.892206	2.725710	0.031060	0.302244	0.075356	0.005750	0.003274	0.208341	0.000994	0.020141	0.011395	0.003199	0.031989
22-Apr-2030	0.160634	20.767900	32.502100	5.107490	72.890090	2.725630	0.031060	0.302235	0.075354	0.005750	0.003274	0.208335	0.000994	0.020141	0.011395	0.003199	0.031988
23-Apr-2030	0.160634	20.767400	32.501300	5.107370	72.888347	2.725570	0.031059	0.302228	0.075352	0.005750	0.003274	0.208330	0.000994	0.020140	0.011395	0.003199	0.031987
24-Apr-2030	0.160634	20.767000	32.500800	5.107290	72.887019	2.725520	0.031058	0.302223	0.075351	0.005750	0.003274	0.208327	0.000994	0.020140	0.011395	0.003199	0.031987
25-Apr-2030	0.160634	20.766800	32.500500	5.107240	72.886314	2.725490	0.031058	0.302220	0.075350	0.005750	0.003274	0.208325	0.000994	0.020140	0.011395	0.003199	0.031986
26-Apr-2030	0.160634	20.766900	32.500500	5.107250	72.886605	2.725500	0.031058	0.302221	0.075350	0.005750	0.003274	0.208325	0.000994	0.020140	0.011395	0.003199	0.031987
27-Apr-2030	0.160634	20.767100	32.500800	5.107290	72.887269	2.725520	0.031058	0.302224	0.075351	0.005750	0.003274	0.208327	0.000994	0.020140	0.011395	0.003199	0.031987
28-Apr-2030	0.160634	20.767500	32.501500	5.107390	72.888680	2.725580	0.031059	0.302229	0.075352	0.005750	0.003274	0.208331	0.000994	0.020140	0.011395	0.003199	0.031987
29-Apr-2030	0.160634	20.768000	32.502300	5.107530	72.890505	2.725650	0.031060	0.302237	0.075354	0.005750	0.003274	0.208337	0.000994	0.020141	0.011395	0.003199	0.031988
30-Apr-2030	0.160641	20.768300	32.502700	5.107590	72.891501	2.725680	0.031060	0.302241	0.075355	0.005750	0.003274	0.208339	0.000994	0.020141	0.011395	0.003199	0.031989
1-May-2030	0.160790	20.760500	32.490600	5.105680	72.864159	2.724660	0.031049	0.302128	0.075327	0.005748	0.003273	0.208261	0.000993	0.020134	0.011391	0.003198	0.031977
2-May-2030	0.161649	20.713900	32.417700	5.094230	72.700647	2.718550	0.030979	0.301450	0.075158	0.005735	0.003265	0.207794	0.000991	0.020088	0.011366	0.003190	0.031905
3-May-2030	0.166030	20.489300	32.066100	5.038980	71.912302	2.689070	0.030643	0.298181	0.074343	0.005673	0.003230	0.205541	0.000980	0.019871	0.011242	0.003156	0.031559
4-May-2030	0.172461	20.203400	31.618700	4.968670	70.908873	2.651550	0.030215	0.294021	0.073306	0.005594	0.003185	0.202673	0.000967	0.019593	0.011085	0.003112	0.031119
5-May-2030	0.179008	19.787300	30.967500	4.866350	69.448517	2.596940	0.029593	0.287966	0.071796	0.005479	0.003119	0.198499	0.000947	0.019190	0.010857	0.003048	0.030478
6-May-2030	0.184897	19.253600	30.132200	4.735070	67.575257	2.526890	0.028795	0.280198	0.069859	0.005331	0.003035	0.193144	0.000921	0.018672	0.010564	0.002966	0.029656
7-May-2030	0.193891	18.849600	29.500000	4.635740	66.157429	2.473870	0.028191	0.274319	0.068394	0.005219	0.002971	0.189092	0.000902	0.018280	0.010343	0.002903	0.029033
8-May-2030	0.199657	18.413200	28.817000	4.528400	64.625712	2.416590	0.027538	0.267968	0.066810	0.005098	0.002903	0.184714	0.000881	0.017857	0.010103	0.002836	0.028361
9-May-2030	0.201590	18.010900	28.187400	4.429470	63.213775	2.363800	0.026936	0.262113	0.065351	0.004987	0.002839	0.180679	0.000862	0.017467	0.009882	0.002774	0.027742
10-May-2030	0.203504	17.739700	27.763000	4.362770	62.261918	2.328210	0.026531	0.258167	0.064367	0.004912	0.002796	0.177958	0.000849	0.017204	0.009734	0.002732	0.027324
11-May-2030	0.238388	17.571500	27.499700	4.321400	61.671561	2.306130	0.026279	0.255719	0.063756	0.004865	0.002770	0.176270	0.000841	0.017041	0.009641	0.002706	0.027065
12-May-2030	0.243211	17.258000	27.009100	4.244300	60.571253	2.264980	0.025810	0.251156	0.062619	0.004778	0.002720	0.173125	0.000826	0.016737	0.009469	0.002658	0.026582

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-May-2030	0.243623	17.117000	26.788300	4.209610	60.076323	2.246470	0.025599	0.249103	0.062107	0.004739	0.002698	0.171711	0.000819	0.016600	0.009392	0.002636	0.026365
14-May-2030	0.246098	16.786900	26.271800	4.128450	58.917846	2.203160	0.025106	0.244300	0.060909	0.004648	0.002646	0.168400	0.000803	0.016280	0.009211	0.002586	0.025856
15-May-2030	0.249112	16.546800	25.896100	4.069400	58.075149	2.171650	0.024747	0.240806	0.060038	0.004581	0.002608	0.165991	0.000792	0.016047	0.009079	0.002549	0.025487
16-May-2030	0.254190	16.225300	25.392800	3.990320	56.946712	2.129450	0.024266	0.236127	0.058872	0.004492	0.002558	0.162765	0.000776	0.015735	0.008903	0.002499	0.024991
17-May-2030	0.255634	16.010800	25.057100	3.937570	56.193881	2.101300	0.023945	0.233005	0.058093	0.004433	0.002524	0.160614	0.000766	0.015527	0.008785	0.002466	0.024661
18-May-2030	0.257959	15.755800	24.658200	3.874870	55.298947	2.067840	0.023564	0.229295	0.057168	0.004362	0.002484	0.158056	0.000754	0.015280	0.008645	0.002427	0.024268
19-May-2030	0.261852	15.553100	24.340900	3.825020	54.587523	2.041230	0.023261	0.226345	0.056433	0.004306	0.002452	0.156023	0.000744	0.015083	0.008534	0.002396	0.023956
20-May-2030	0.287737	14.096100	22.060700	3.466690	49.473791	1.850010	0.021082	0.205141	0.051146	0.003903	0.002222	0.141407	0.000674	0.013670	0.007734	0.002171	0.021712
21-May-2030	0.291818	13.773500	21.555700	3.387340	48.341496	1.807660	0.020599	0.200446	0.049975	0.003814	0.002171	0.138170	0.000659	0.013358	0.007557	0.002121	0.021215
22-May-2030	0.297022	13.255300	20.744800	3.259920	46.522835	1.739660	0.019824	0.192905	0.048096	0.003670	0.002089	0.132972	0.000634	0.012855	0.007273	0.002042	0.020417
23-May-2030	0.299001	12.812900	20.052400	3.151110	44.970082	1.681600	0.019162	0.186467	0.046490	0.003548	0.002020	0.128534	0.000613	0.012426	0.007030	0.001974	0.019735
24-May-2030	0.310567	11.704600	18.318000	2.878550	41.080255	1.536150	0.017505	0.170338	0.042469	0.003241	0.001845	0.117416	0.000560	0.011351	0.006422	0.001803	0.018028
25-May-2030	0.325070	10.571000	16.543800	2.599750	37.101558	1.387360	0.015810	0.153840	0.038356	0.002927	0.001666	0.106044	0.000506	0.010252	0.005800	0.001628	0.016282
26-May-2030	0.335120	10.001700	15.652800	2.459740	35.103454	1.312650	0.014958	0.145555	0.036290	0.002769	0.001577	0.100333	0.000479	0.009700	0.005488	0.001541	0.015405
27-May-2030	0.342508	9.596360	15.018500	2.360060	33.680838	1.259450	0.014352	0.139656	0.034819	0.002657	0.001513	0.096267	0.000459	0.009307	0.005265	0.001478	0.014781
28-May-2030	0.348717	9.610180	15.040100	2.363460	33.729348	1.261260	0.014373	0.139857	0.034869	0.002661	0.001515	0.096406	0.000460	0.009320	0.005273	0.001480	0.014802
29-May-2030	0.351774	10.448800	16.352500	2.569690	36.672637	1.371320	0.015627	0.152061	0.037912	0.002893	0.001647	0.104818	0.000500	0.010133	0.005733	0.001609	0.016094
30-May-2030	0.359376	10.293900	16.110100	2.531600	36.128997	1.351000	0.015395	0.149807	0.037350	0.002850	0.001623	0.103264	0.000492	0.009983	0.005648	0.001586	0.015855
31-May-2030	0.360685	10.482500	16.405300	2.577990	36.790965	1.375750	0.015677	0.152552	0.038035	0.002902	0.001652	0.105156	0.000502	0.010166	0.005752	0.001615	0.016146
1-Jun-2030	0.365264	10.301000	16.121300	2.533350	36.153932	1.351930	0.015406	0.149911	0.037376	0.002852	0.001624	0.103336	0.000493	0.009990	0.005652	0.001587	0.015866
2-Jun-2030	0.416020	9.896550	15.488300	2.433880	34.734403	1.298850	0.014801	0.144025	0.035909	0.002740	0.001560	0.099278	0.000473	0.009598	0.005430	0.001524	0.015243
3-Jun-2030	0.422919	9.822940	15.373100	2.415780	34.476063	1.289190	0.014691	0.142954	0.035641	0.002720	0.001548	0.098540	0.000470	0.009526	0.005390	0.001513	0.015130
4-Jun-2030	0.435938	9.810250	15.353200	2.412660	34.431528	1.287520	0.014672	0.142769	0.035595	0.002716	0.001546	0.098413	0.000469	0.009514	0.005383	0.001511	0.015110
5-Jun-2030	0.435625	9.180560	14.367700	2.257800	32.221479	1.204880	0.013730	0.133605	0.033311	0.002542	0.001447	0.092096	0.000439	0.008903	0.005037	0.001414	0.014141
6-Jun-2030	0.437888	8.946970	14.002200	2.200350	31.401625	1.174220	0.013381	0.130206	0.032463	0.002477	0.001410	0.089753	0.000428	0.008677	0.004909	0.001378	0.013781
7-Jun-2030	0.443611	8.817780	13.800000	2.168580	30.948209	1.157260	0.013188	0.128325	0.031994	0.002441	0.001390	0.088457	0.000422	0.008552	0.004838	0.001358	0.013582
8-Jun-2030	0.465487	8.639550	13.520400	2.125010	30.323748	1.133740	0.012920	0.125719	0.031353	0.002392	0.001362	0.086689	0.000413	0.008379	0.004740	0.001331	0.013307
9-Jun-2030	0.496671	8.586250	13.435000	2.112570	30.139430	1.126340	0.012837	0.124908	0.031182	0.002377	0.001355	0.086204	0.000411	0.008330	0.004711	0.001323	0.013226
10-Jun-2030	0.533454	8.405600	13.128200	2.075220	29.534539	1.097750	0.012528	0.121860	0.030842	0.002321	0.001339	0.084934	0.000401	0.008184	0.004608	0.001295	0.012955
11-Jun-2030	0.575979	8.249600	12.845600	2.048050	29.033121	1.069450	0.012233	0.118917	0.030778	0.002268	0.001335	0.084235	0.000391	0.008079	0.004516	0.001273	0.012726
12-Jun-2030	0.621269	8.090090	12.531100	2.027570	28.550488	1.035230	0.011890	0.115468	0.031051	0.002206	0.001345	0.084059	0.000380	0.008005	0.004419	0.001250	0.012500
13-Jun-2030	0.675836	7.989570	12.309400	2.021350	28.273876	1.008710	0.011635	0.112870	0.031524	0.002160	0.001364	0.084441	0.000372	0.007988	0.004354	0.001236	0.012363
14-Jun-2030	0.735817	8.021490	12.303700	2.044990	28.450929	1.001540	0.011596	0.112404	0.032407	0.002155	0.001399	0.086013	0.000371	0.008090	0.004364	0.001243	0.012429
15-Jun-2030	0.803702	7.960330	12.181700	2.037210	28.266175	0.988136	0.011463	0.111061	0.032530	0.002132	0.001403	0.085985	0.000366	0.008064	0.004326	0.001234	0.012341
16-Jun-2030	0.896632	7.860210	11.977400	2.025810	27.969230	0.965218	0.011238	0.108789	0.032791	0.002092	0.001412	0.086040	0.000359	0.008027	0.004265	0.001220	0.012201
17-Jun-2030	0.963033	7.753710	11.782400	2.007350	27.627281	0.945460	0.011034	0.106751	0.032762	0.002056	0.001410	0.085607	0.000353	0.007960	0.004202	0.001204	0.012044
18-Jun-2030	1.016053	7.656330	11.603300	1.990460	27.314570	0.927276	0.010844	0.104854	0.032719	0.002024	0.001409	0.085251	0.000347	0.007899	0.004146	0.001190	0.011899
19-Jun-2030	1.072851	7.548740	11.407100	1.971180	26.966523	0.907615	0.010639	0.102800	0.032646	0.001989	0.001405	0.084843	0.000340	0.007830	0.004083	0.001174	0.011737
20-Jun-2030	1.142325	7.452460	11.225200	1.955500	26.661542	0.888806	0.010447	0.100867	0.032658	0.001958	0.001406	0.084642	0.000334	0.007777	0.004026	0.001159	0.011593
21-Jun-2030	1.236140	7.379910	11.079700	1.945830	26.440563	0.872962	0.010288	0.099259	0.032754	0.001933	0.001410	0.084697	0.000329	0.007747	0.003983	0.001148	0.011484
22-Jun-2030	1.359123	7.316900	10.948300	1.938670	26.253742	0.858196	0.010141	0.097763	0.032874	0.001910	0.001416	0.084860	0.000324	0.007727	0.003944	0.001139	0.011389
23-Jun-2030	1.497710	7.238620	10.796500	1.926750	26.009191	0.842208	0.009979	0.096129	0.032917	0.001885	0.001418	0.084812	0.000319	0.007688	0.003898	0.001127	0.011271
24-Jun-2030	1.616440	7.179670	10.683800	1.917140	25.822419	0.830604	0.009862	0.094943	0.032939	0.001868	0.001418	0.084771	0.000315	0.007658	0.003863	0.001118	0.011181
25-Jun-2030	1.741033	7.075030	10.498300	1.896420	25.475807	0.812893	0.009678	0.093106	0.032835	0.001838	0.001411	0.084344	0.000309	0.007585	0.003804	0.001102	0.011024
26-Jun-2030	1.899657	7.008600	10.374800	1.884640	25.261422	0.800548	0.009552	0.091838	0.032820	0.001819	0.001410	0.084219	0.000305	0.007546	0.003766	0.001092	0.010922
27-Jun-2030	2.067707	6.894840	10.175000	1.862090	24.884502	0.781380	0.009349	0.089820	0.032655	0.001785	0.001402	0.083633	0.000298	0.007463	0.003701	0.001075	0.010750
28-Jun-2030	2.217090	6.772080	9.961040	1.837170	24.475350	0.761180	0.009137	0.087713	0.032491	0.001750	0.001393	0.082992	0.000291	0.007373	0.003631	0.001057	0.010566
29-Jun-2030	2.344680	6.636870	9.729640	1.808720	24.020573	0.739745	0.008910	0.085477	0.032274	0.001711	0.001381	0.082180	0.000284	0.007268	0.003555	0.001036	0.010364
30-Jun-2030	2.501233	6.509830	9.516530	1.780890	23.588751	0.720428	0.008703	0.083436	0.032006	0.001675	0.001368	0.081305	0.000277	0.007163	0.003484	0.001017	0.010173
1-Jul-2030	5.634357	6.111410	8.886180	1.682060	22.186914	0.668007	0.008118	0.077675	0.030722	0.001576	0.001305	0.077800	0.000258	0.006789	0.003267	0.000957	0.009568
2-Jul-2030	6.286603	6.328770	9.231600	1.730760	22.930208	0.698363	0.008454	0.080923	0.031473	0.001646	0.001333	0.080039	0.000269	0.007001	0.003390	0.000989	0.009893

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
3-Jul-2030	7.048220	6.411650	9.348840	1.751590	23.222938	0.707509	0.008564	0.081950	0.031909	0.001675	0.001349	0.081367	0.000272	0.007103	0.003437	0.001002	0.010016
4-Jul-2030	9.012417	6.405970	9.321600	1.754490	23.220697	0.703619	0.008534	0.081623	0.032078	0.001677	0.001357	0.082067	0.000271	0.007122	0.003433	0.001001	0.010005
5-Jul-2030	11.204667	6.412590	9.322640	1.757120	23.248057	0.703180	0.008536	0.081628	0.032156	0.001683	0.001359	0.082397	0.000271	0.007139	0.003436	0.001001	0.010013
6-Jul-2030	11.571533	6.371730	9.258230	1.745890	23.099785	0.698201	0.008479	0.081077	0.031987	0.001678	0.001351	0.082145	0.000269	0.007102	0.003415	0.000995	0.009946
7-Jul-2030	11.331633	6.308840	9.170590	1.726440	22.862653	0.692360	0.008403	0.080361	0.031623	0.001665	0.001335	0.081323	0.000267	0.007031	0.003383	0.000985	0.009846
8-Jul-2030	12.890433	6.310770	9.179090	1.724950	22.861337	0.693928	0.008415	0.080492	0.031582	0.001669	0.001333	0.081285	0.000267	0.007029	0.003386	0.000985	0.009846
9-Jul-2030	14.451500	6.328790	9.215820	1.725410	22.908227	0.698170	0.008455	0.080895	0.031542	0.001677	0.001329	0.081273	0.000268	0.007039	0.003398	0.000987	0.009871
10-Jul-2030	15.758000	6.397240	9.333080	1.737850	23.130375	0.709393	0.008572	0.082050	0.031698	0.001700	0.001334	0.081745	0.000272	0.007098	0.003439	0.000997	0.009974
11-Jul-2030	15.688267	6.424710	9.378330	1.743440	23.221987	0.713543	0.008616	0.082487	0.031775	0.001709	0.001337	0.081986	0.000274	0.007123	0.003455	0.001002	0.010015
12-Jul-2030	14.717400	6.440850	9.407640	1.745780	23.271924	0.716565	0.008646	0.082787	0.031785	0.001715	0.001337	0.082073	0.000275	0.007135	0.003465	0.001004	0.010039
13-Jul-2030	15.436133	6.452970	9.441200	1.743750	23.293829	0.721129	0.008684	0.083186	0.031680	0.001721	0.001331	0.081832	0.000276	0.007133	0.003475	0.001005	0.010055
14-Jul-2030	15.678967	6.395100	9.369120	1.724040	23.068161	0.717181	0.008623	0.082629	0.031262	0.001708	0.001312	0.080777	0.000274	0.007056	0.003446	0.000996	0.009962
15-Jul-2030	15.879867	6.443140	9.449860	1.734040	23.229297	0.724611	0.008702	0.083401	0.031378	0.001722	0.001317	0.081133	0.000277	0.007097	0.003473	0.001003	0.010035
16-Jul-2030	14.545967	6.349160	9.319840	1.706190	22.879943	0.715610	0.008585	0.082302	0.030823	0.001699	0.001293	0.079752	0.000273	0.006985	0.003424	0.000989	0.009886
17-Jul-2030	13.019867	6.210010	9.126300	1.665350	22.364306	0.702102	0.008412	0.080662	0.030024	0.001664	0.001259	0.077749	0.000268	0.006820	0.003351	0.000967	0.009667
18-Jul-2030	12.277833	6.187450	9.101860	1.656550	22.271736	0.701316	0.008393	0.080501	0.029812	0.001660	0.001250	0.077260	0.000267	0.006786	0.003340	0.000963	0.009630
19-Jul-2030	11.227400	6.095760	8.978070	1.628510	21.927317	0.693155	0.008284	0.079476	0.029242	0.001638	0.001226	0.075846	0.000264	0.006673	0.003293	0.000948	0.009485
20-Jul-2030	12.491967	6.103820	8.997760	1.628220	21.946249	0.695644	0.008306	0.079699	0.029189	0.001641	0.001223	0.075757	0.000265	0.006673	0.003299	0.000950	0.009495
21-Jul-2030	13.858467	6.227210	9.193200	1.657070	22.373158	0.712400	0.008492	0.081511	0.029616	0.001677	0.001241	0.076957	0.000271	0.006792	0.003367	0.000968	0.009684
22-Jul-2030	14.142367	6.259740	9.249230	1.663230	22.479752	0.717744	0.008547	0.082059	0.029675	0.001688	0.001243	0.077174	0.000272	0.006819	0.003386	0.000973	0.009733
23-Jul-2030	14.281900	6.218360	9.198870	1.648930	22.317539	0.715283	0.008506	0.081687	0.029361	0.001679	0.001229	0.076412	0.000271	0.006762	0.003366	0.000967	0.009666
24-Jul-2030	14.300367	6.296690	9.328960	1.665210	22.580170	0.727022	0.008632	0.082923	0.029561	0.001702	0.001237	0.077015	0.000275	0.006831	0.003411	0.000978	0.009785
25-Jul-2030	14.362467	6.314710	9.363330	1.667710	22.635461	0.730620	0.008667	0.083273	0.029552	0.001709	0.001237	0.077048	0.000277	0.006842	0.003422	0.000981	0.009811
26-Jul-2030	13.419733	6.331000	9.398440	1.668670	22.680090	0.734685	0.008704	0.083652	0.029501	0.001715	0.001234	0.076974	0.000278	0.006847	0.003432	0.000983	0.009834
27-Jul-2030	12.985300	6.394970	9.506170	1.681610	22.893110	0.744644	0.008809	0.084687	0.029655	0.001735	0.001240	0.077431	0.000281	0.006902	0.003469	0.000993	0.009930
28-Jul-2030	11.971333	6.448770	9.598380	1.691980	23.070152	0.753332	0.008899	0.085581	0.029768	0.001751	0.001244	0.077771	0.000284	0.006947	0.003501	0.001001	0.010012
29-Jul-2030	12.605700	6.481640	9.657610	1.697630	23.175495	0.759199	0.008958	0.086167	0.029792	0.001762	0.001245	0.077913	0.000286	0.006970	0.003520	0.001006	0.010060
30-Jul-2030	12.668967	6.562310	9.789090	1.715450	23.450311	0.770864	0.009084	0.087405	0.030028	0.001785	0.001255	0.078599	0.000290	0.007044	0.003566	0.001018	0.010183
31-Jul-2030	12.294667	6.562560	9.799020	1.712600	23.439199	0.772778	0.009097	0.087549	0.029923	0.001787	0.001250	0.078356	0.000291	0.007033	0.003567	0.001018	0.010181
1-Aug-2030	13.511700	6.614920	9.888060	1.722920	23.612440	0.781086	0.009184	0.088408	0.030043	0.001803	0.001254	0.078700	0.000294	0.007078	0.003598	0.001026	0.010261
2-Aug-2030	14.194367	6.734530	10.087500	1.747880	24.013891	0.799256	0.009377	0.090307	0.030354	0.001838	0.001266	0.079588	0.000300	0.007182	0.003666	0.001044	0.010442
3-Aug-2030	14.506433	6.835610	10.254400	1.769780	24.356472	0.814228	0.009538	0.091879	0.030624	0.001868	0.001278	0.080377	0.000305	0.007272	0.003723	0.001060	0.010596
4-Aug-2030	15.101667	6.883000	10.335100	1.779210	24.513638	0.821750	0.009616	0.092655	0.030727	0.001882	0.001282	0.080683	0.000308	0.007311	0.003750	0.001067	0.010668
5-Aug-2030	14.205233	6.954920	10.460300	1.792740	24.748939	0.833686	0.009739	0.093869	0.030852	0.001904	0.001286	0.081078	0.000312	0.007368	0.003792	0.001078	0.010776
6-Aug-2030	13.039200	6.897640	10.395300	1.771660	24.519103	0.830936	0.009686	0.093400	0.030366	0.001891	0.001265	0.079855	0.000311	0.007284	0.003764	0.001068	0.010683
7-Aug-2030	13.705067	6.926810	10.452500	1.775350	24.607136	0.837010	0.009744	0.093981	0.030340	0.001900	0.001264	0.079845	0.000313	0.007299	0.003782	0.001073	0.010726
8-Aug-2030	14.889467	7.110880	10.751300	1.816800	25.237450	0.863251	0.010028	0.096762	0.030893	0.001953	0.001287	0.081405	0.000322	0.007467	0.003886	0.001101	0.011007
9-Aug-2030	15.662733	7.134350	10.794300	1.820780	25.312444	0.867518	0.010070	0.097182	0.030903	0.001960	0.001287	0.081479	0.000323	0.007482	0.003899	0.001104	0.011041
10-Aug-2030	16.421900	7.231060	10.959300	1.839870	25.632541	0.882942	0.010231	0.098767	0.031112	0.001989	0.001295	0.082101	0.000329	0.007563	0.003955	0.001119	0.011187
11-Aug-2030	16.304667	7.379700	11.208900	1.870680	26.130571	0.905787	0.010471	0.101136	0.031472	0.002033	0.001310	0.083156	0.000337	0.007690	0.004040	0.001141	0.011412
12-Aug-2030	17.767567	7.478630	11.372900	1.892360	26.466878	0.920490	0.010628	0.102666	0.031712	0.002062	0.001321	0.083910	0.000342	0.007774	0.004096	0.001156	0.011562
13-Aug-2030	17.808533	7.536510	11.475900	1.902420	26.652831	0.930579	0.010729	0.103677	0.031791	0.002080	0.001323	0.084183	0.000345	0.007818	0.004130	0.001165	0.011648
14-Aug-2030	17.119033	7.650330	11.668900	1.925400	27.031671	0.948462	0.010916	0.105519	0.032044	0.002115	0.001333	0.084954	0.000352	0.007913	0.004195	0.001182	0.011820
15-Aug-2030	16.040267	7.700850	11.760000	1.934100	27.193646	0.957432	0.011005	0.106409	0.032091	0.002130	0.001335	0.085152	0.000355	0.007949	0.004225	0.001190	0.011895
16-Aug-2030	15.699800	7.725970	11.810400	1.937140	27.268890	0.962826	0.011056	0.106915	0.032052	0.002139	0.001333	0.085110	0.000356	0.007960	0.004240	0.001193	0.011932
17-Aug-2030	15.517433	7.838650	11.997300	1.961410	27.650195	0.979642	0.011234	0.108669	0.032342	0.002171	0.001345	0.085960	0.000362	0.008058	0.004304	0.001210	0.012103
18-Aug-2030	15.272367	7.932990	12.156100	1.981200	27.967258	0.994145	0.011386	0.110165	0.032553	0.002199	0.001354	0.086611	0.000367	0.008137	0.004358	0.001225	0.012245
19-Aug-2030	14.596167	7.940020	12.183900	1.978130	27.972169	0.998274	0.011417	0.110494	0.032388	0.002202	0.001347	0.086223	0.000368	0.008125	0.004364	0.001225	0.012253
20-Aug-2030	13.959133	7.965130	12.232100	1.982070	28.051094	1.003200	0.011464	0.110961	0.032361	0.002210	0.001347	0.086237	0.000370	0.008137	0.004379	0.001229	0.012290
21-Aug-2030	14.026867	8.014140	12.315300	1.992430	28.216134	1.010820	0.011543	0.111738	0.032452	0.002224	0.001351	0.086555	0.000373	0.008176	0.004406	0.001236	0.012363
22-Aug-2030	14.272033	8.092310	12.447100	2.009040	28.479725	1.022830	0.011668	0.112970	0.032613	0.002247	0.001359	0.087089	0.000377	0.008240	0.004451	0.001248	0.012481

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Aug-2030	14.753433	8.147680	12.543100	2.019980	28.663035	1.031850	0.011760	0.113881	0.032699	0.002263	0.001363	0.087397	0.000380	0.008283	0.004482	0.001256	0.012564
24-Aug-2030	15.149467	8.192970	12.628100	2.026800	28.804208	1.040540	0.011844	0.114722	0.032706	0.002278	0.001363	0.087484	0.000383	0.008311	0.004509	0.001263	0.012631
25-Aug-2030	14.948967	8.277330	12.775400	2.042700	29.080332	1.054560	0.011987	0.116137	0.032846	0.002303	0.001368	0.087935	0.000388	0.008376	0.004558	0.001276	0.012758
26-Aug-2030	13.776767	8.204640	12.676100	2.021310	28.810741	1.047730	0.011897	0.115283	0.032400	0.002285	0.001350	0.086824	0.000385	0.008287	0.004520	0.001264	0.012643
27-Aug-2030	13.229367	8.157470	12.609600	2.008270	28.639258	1.042870	0.011835	0.114693	0.032123	0.002272	0.001339	0.086158	0.000383	0.008230	0.004495	0.001257	0.012569
28-Aug-2030	12.919767	8.232140	12.735800	2.023970	28.890362	1.054420	0.011955	0.115875	0.032274	0.002294	0.001346	0.086669	0.000387	0.008291	0.004537	0.001268	0.012681
29-Aug-2030	12.651067	8.280810	12.812200	2.036670	29.064190	1.060700	0.012024	0.116540	0.032402	0.002308	0.001354	0.087156	0.000390	0.008334	0.004563	0.001275	0.012754
30-Aug-2030	13.167667	8.268610	12.798000	2.033160	29.019272	1.059900	0.012010	0.116404	0.032265	0.002305	0.001350	0.086906	0.000389	0.008312	0.004556	0.001273	0.012734
31-Aug-2030	13.575767	8.308050	12.867900	2.040400	29.147568	1.066640	0.012077	0.117074	0.032314	0.002317	0.001352	0.087097	0.000392	0.008341	0.004579	0.001279	0.012792
1-Sep-2030	12.046633	8.316950	12.897100	2.038690	29.162750	1.070680	0.012107	0.117389	0.032141	0.002322	0.001346	0.086804	0.000393	0.008330	0.004585	0.001280	0.012802
2-Sep-2030	10.971233	8.296860	12.869700	2.033250	29.090183	1.068760	0.012081	0.117137	0.031985	0.002317	0.001341	0.086515	0.000392	0.008302	0.004574	0.001277	0.012769
3-Sep-2030	10.794533	8.335420	12.931500	2.042480	29.224476	1.074070	0.012138	0.117696	0.032090	0.002328	0.001346	0.086882	0.000394	0.008337	0.004595	0.001283	0.012827
4-Sep-2030	10.693433	8.351130	12.960900	2.045360	29.275564	1.077000	0.012166	0.117968	0.032063	0.002334	0.001346	0.086938	0.000395	0.008344	0.004604	0.001285	0.012849
5-Sep-2030	10.211200	8.415170	13.071700	2.057500	29.485464	1.087490	0.012274	0.119036	0.032191	0.002353	0.001351	0.087299	0.000398	0.008396	0.004641	0.001295	0.012946
6-Sep-2030	10.288567	8.546720	13.291300	2.085280	29.928343	1.107420	0.012484	0.121103	0.032518	0.002392	0.001364	0.088266	0.000405	0.008510	0.004716	0.001314	0.013145
7-Sep-2030	10.723167	8.522550	13.261300	2.077280	29.835046	1.105730	0.012458	0.120861	0.032337	0.002386	0.001356	0.087822	0.000405	0.008477	0.004704	0.001311	0.013106
8-Sep-2030	10.348733	8.565720	13.338000	2.085110	29.975086	1.113170	0.012532	0.121600	0.032387	0.002399	0.001358	0.088018	0.000407	0.008508	0.004729	0.001317	0.013171
9-Sep-2030	9.378470	8.502080	13.244600	2.068040	29.745882	1.105980	0.012446	0.120772	0.032079	0.002382	0.001345	0.087221	0.000405	0.008438	0.004695	0.001307	0.013071
10-Sep-2030	8.896253	8.489050	13.233500	2.062110	29.688927	1.106070	0.012438	0.120716	0.031929	0.002380	0.001339	0.086849	0.000404	0.008415	0.004689	0.001305	0.013050
11-Sep-2030	9.054363	8.539510	13.320300	2.071800	29.854829	1.114250	0.012523	0.121552	0.032037	0.002395	0.001343	0.087147	0.000407	0.008457	0.004719	0.001313	0.013126
12-Sep-2030	9.388340	8.684420	13.565200	2.101170	30.337615	1.136830	0.012759	0.123883	0.032384	0.002438	0.001356	0.088127	0.000415	0.008581	0.004802	0.001335	0.013346
13-Sep-2030	8.873317	8.618290	13.464300	2.084620	30.104335	1.128610	0.012665	0.122968	0.032105	0.002419	0.001344	0.087391	0.000412	0.008512	0.004766	0.001324	0.013244
14-Sep-2030	8.526107	8.703890	13.610700	2.101490	30.387549	1.142280	0.012806	0.124369	0.032292	0.002445	0.001351	0.087921	0.000417	0.008583	0.004815	0.001337	0.013373
15-Sep-2030	8.754977	8.695280	13.603100	2.097870	30.351143	1.142240	0.012801	0.124322	0.032192	0.002443	0.001347	0.087680	0.000417	0.008567	0.004811	0.001336	0.013359
16-Sep-2030	8.892323	8.652160	13.542200	2.085530	30.192656	1.137850	0.012745	0.123797	0.031959	0.002431	0.001337	0.087068	0.000415	0.008518	0.004788	0.001329	0.013292
17-Sep-2030	9.037993	8.687910	13.615900	2.088600	30.294566	1.146020	0.012821	0.124566	0.031914	0.002443	0.001334	0.086953	0.000417	0.008535	0.004811	0.001334	0.013344
18-Sep-2030	8.602177	8.734780	13.696800	2.097580	30.448580	1.153660	0.012900	0.125345	0.032010	0.002457	0.001337	0.087225	0.000420	0.008573	0.004838	0.001341	0.013415
19-Sep-2030	8.193467	8.761370	13.754000	2.099260	30.521894	1.160180	0.012959	0.125947	0.031947	0.002467	0.001333	0.087081	0.000422	0.008583	0.004856	0.001345	0.013453
20-Sep-2030	7.631410	8.760680	13.760400	2.096950	30.510658	1.161520	0.012967	0.126040	0.031873	0.002467	0.001330	0.086910	0.000422	0.008574	0.004857	0.001345	0.013451
21-Sep-2030	7.328423	8.804150	13.834500	2.105690	30.655194	1.168410	0.013038	0.126745	0.031950	0.002480	0.001333	0.087164	0.000425	0.008609	0.004882	0.001352	0.013516
22-Sep-2030	6.944593	8.778760	13.798600	2.098420	30.561857	1.165820	0.013006	0.126437	0.031815	0.002474	0.001327	0.086808	0.000424	0.008580	0.004868	0.001348	0.013477
23-Sep-2030	6.844530	8.812450	13.866400	2.101670	30.659365	1.173230	0.013076	0.127143	0.031796	0.002485	0.001325	0.086737	0.000426	0.008599	0.004890	0.001353	0.013526
24-Sep-2030	6.589903	8.855180	13.950300	2.106470	30.785828	1.182200	0.013161	0.128008	0.031794	0.002498	0.001323	0.086704	0.000429	0.008624	0.004917	0.001359	0.013590
25-Sep-2030	6.642870	8.771970	13.834400	2.081810	30.476503	1.174080	0.013058	0.127032	0.031360	0.002476	0.001303	0.085494	0.000426	0.008528	0.004873	0.001346	0.013461
26-Sep-2030	6.574703	8.878620	14.017500	2.102350	30.827391	1.191260	0.013236	0.128795	0.031593	0.002508	0.001311	0.086108	0.000432	0.008617	0.004935	0.001362	0.013623
27-Sep-2030	5.758553	8.827800	13.946900	2.087330	30.638642	1.186310	0.013173	0.128197	0.031317	0.002494	0.001298	0.085354	0.000430	0.008558	0.004909	0.001354	0.013543
28-Sep-2030	4.502950	8.761240	13.852600	2.068280	30.393993	1.179470	0.013087	0.127388	0.030973	0.002477	0.001283	0.084416	0.000427	0.008482	0.004874	0.001344	0.013440
29-Sep-2030	4.359613	8.831740	13.972700	2.082570	30.628878	1.190640	0.013204	0.128537	0.031147	0.002497	0.001290	0.084892	0.000431	0.008542	0.004914	0.001355	0.013547
30-Sep-2030	3.634500	8.894800	14.080200	2.094920	30.837196	1.200620	0.013308	0.129564	0.031277	0.002516	0.001295	0.085256	0.000434	0.008594	0.004951	0.001364	0.013642
1-Oct-2030	3.004960	8.861740	14.034000	2.085330	30.715154	1.197340	0.013266	0.129169	0.031098	0.002507	0.001287	0.084771	0.000433	0.008556	0.004933	0.001359	0.013591
2-Oct-2030	2.016127	8.848270	14.018300	2.080530	30.661753	1.196610	0.013253	0.129052	0.030990	0.002504	0.001282	0.084489	0.000433	0.008537	0.004927	0.001357	0.013569
3-Oct-2030	1.255290	8.786610	13.924400	2.064960	30.443670	1.188980	0.013166	0.128206	0.030734	0.002486	0.001271	0.083800	0.000430	0.008473	0.004893	0.001347	0.013474
4-Oct-2030	0.225438	8.612880	13.652200	2.023270	29.838187	1.166070	0.012909	0.125714	0.030092	0.002438	0.001244	0.082061	0.000422	0.008302	0.004797	0.001321	0.013207
5-Oct-2030	0.046576	8.493340	13.464700	1.994650	29.421839	1.150260	0.012732	0.123997	0.029652	0.002404	0.001226	0.080870	0.000416	0.008184	0.004730	0.001302	0.013024
6-Oct-2030	0.018893	8.493740	13.467300	1.994230	29.421108	1.150690	0.012736	0.124031	0.029632	0.002404	0.001225	0.080823	0.000416	0.008182	0.004731	0.001302	0.013024
7-Oct-2030	0.044510	8.518570	13.508300	1.999640	29.505387	1.154370	0.012775	0.124416	0.029699	0.002411	0.001228	0.081018	0.000417	0.008204	0.004745	0.001306	0.013062
8-Oct-2030	0.084841	8.467880	13.429200	1.987430	29.328533	1.147740	0.012700	0.123694	0.029507	0.002397	0.001220	0.080506	0.000415	0.008154	0.004717	0.001298	0.012984
9-Oct-2030	0.082291	8.477810	13.445600	1.989600	29.362264	1.149230	0.012716	0.123849	0.029532	0.002400	0.001221	0.080585	0.000415	0.008162	0.004722	0.001300	0.012999
10-Oct-2030	0.026142	8.496760	13.476400	1.993870	29.427166	1.151930	0.012746	0.124136	0.029589	0.002406	0.001224	0.080748	0.000416	0.008180	0.004733	0.001303	0.013027
11-Oct-2030	0.021151	8.538730	13.544000	2.003480	29.571539	1.157810	0.012810	0.124763	0.029722	0.002418	0.001229	0.081124	0.000418	0.008219	0.004756	0.001309	0.013092
12-Oct-2030	0.043021	8.543340	13.551900	2.004440	29.587004	1.158550	0.012817	0.124839	0.029730	0.002419	0.001230	0.081156	0.000419	0.008223	0.004759	0.001310	0.013098

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
13-Oct-2030	0.033882	8.503930	13.489100	1.995240	29.450712	1.153160	0.012758	0.124260	0.029596	0.002408	0.001224	0.080786	0.000417	0.008185	0.004737	0.001304	0.013038
14-Oct-2030	0.022360	8.448750	13.401800	1.982300	29.259640	1.145720	0.012675	0.123456	0.029400	0.002393	0.001216	0.080261	0.000414	0.008131	0.004706	0.001295	0.012953
15-Oct-2030	0.029805	8.364500	13.268100	1.962620	28.968226	1.134270	0.012549	0.122224	0.029105	0.002369	0.001204	0.079468	0.000410	0.008050	0.004659	0.001282	0.012824
16-Oct-2030	0.033182	8.363700	13.266800	1.962440	28.965487	1.134170	0.012548	0.122212	0.029102	0.002369	0.001204	0.079461	0.000410	0.008049	0.004659	0.001282	0.012823
17-Oct-2030	0.033959	8.450370	13.404300	1.982770	29.265621	1.145920	0.012678	0.123479	0.029403	0.002393	0.001216	0.080284	0.000414	0.008133	0.004707	0.001296	0.012956
18-Oct-2030	0.035860	8.473610	13.441100	1.988230	29.346135	1.149070	0.012713	0.123818	0.029484	0.002400	0.001220	0.080505	0.000415	0.008155	0.004720	0.001299	0.012991
19-Oct-2030	0.036546	8.513040	13.503700	1.997480	29.482684	1.154420	0.012772	0.124395	0.029621	0.002411	0.001225	0.080880	0.000417	0.008193	0.004742	0.001305	0.013052
20-Oct-2030	0.037340	8.558920	13.576500	2.008250	29.641597	1.160640	0.012841	0.125065	0.029781	0.002424	0.001232	0.081316	0.000419	0.008237	0.004768	0.001312	0.013122
21-Oct-2030	0.037457	8.594660	13.633200	2.016630	29.765348	1.165490	0.012894	0.125587	0.029905	0.002434	0.001237	0.081655	0.000421	0.008272	0.004788	0.001318	0.013177
22-Oct-2030	0.039992	8.630090	13.689400	2.024950	29.888079	1.170290	0.012947	0.126105	0.030029	0.002444	0.001242	0.081992	0.000423	0.008306	0.004807	0.001323	0.013231
23-Oct-2030	0.044060	8.667030	13.747900	2.033610	30.015980	1.175300	0.013003	0.126645	0.030157	0.002455	0.001247	0.082343	0.000425	0.008341	0.004828	0.001329	0.013288
24-Oct-2030	0.041054	8.713140	13.821100	2.044430	30.175673	1.181550	0.013072	0.127318	0.030318	0.002468	0.001254	0.082781	0.000427	0.008386	0.004854	0.001336	0.013359
25-Oct-2030	0.041430	8.764870	13.903100	2.056570	30.354836	1.188570	0.013150	0.128074	0.030498	0.002482	0.001261	0.083273	0.000429	0.008435	0.004882	0.001344	0.013438
26-Oct-2030	0.042141	8.832160	14.009900	2.072360	30.587882	1.197690	0.013251	0.129058	0.030732	0.002501	0.001271	0.083912	0.000433	0.008500	0.004920	0.001354	0.013541
27-Oct-2030	0.043304	8.869710	14.069400	2.081170	30.717924	1.202790	0.013307	0.129606	0.030862	0.002512	0.001277	0.084269	0.000435	0.008536	0.004941	0.001360	0.013599
28-Oct-2030	0.041883	8.923570	14.154900	2.093810	30.904464	1.210090	0.013388	0.130393	0.031050	0.002527	0.001284	0.084780	0.000437	0.008588	0.004971	0.001368	0.013681
29-Oct-2030	0.041702	8.976470	14.238800	2.106220	31.087660	1.217260	0.013467	0.131166	0.031234	0.002542	0.001292	0.085283	0.000440	0.008639	0.005000	0.001376	0.013762
30-Oct-2030	0.041723	9.016590	14.302400	2.115630	31.226590	1.222700	0.013527	0.131752	0.031373	0.002554	0.001298	0.085664	0.000442	0.008678	0.005023	0.001382	0.013824
31-Oct-2030	0.041615	9.063220	14.376400	2.126580	31.388117	1.229030	0.013597	0.132434	0.031536	0.002567	0.001304	0.086107	0.000444	0.008723	0.005049	0.001390	0.013895
1-Nov-2030	0.041548	9.108050	14.447500	2.137090	31.543337	1.235110	0.013665	0.133089	0.031692	0.002579	0.001311	0.086533	0.000446	0.008766	0.005073	0.001396	0.013964
2-Nov-2030	0.041509	9.152680	14.518300	2.147570	31.697935	1.241160	0.013732	0.133741	0.031847	0.002592	0.001317	0.086957	0.000448	0.008809	0.005098	0.001403	0.014032
3-Nov-2030	0.041484	9.199510	14.592600	2.158560	31.860127	1.247510	0.013802	0.134425	0.032010	0.002605	0.001324	0.087402	0.000451	0.008854	0.005124	0.001410	0.014104
4-Nov-2030	0.041567	9.235960	14.650400	2.167110	31.986351	1.252450	0.013856	0.134958	0.032137	0.002616	0.001329	0.087748	0.000453	0.008889	0.005145	0.001416	0.014160
5-Nov-2030	0.041631	9.287340	14.731900	2.179160	32.164269	1.259420	0.013934	0.135709	0.032315	0.002630	0.001337	0.088236	0.000455	0.008938	0.005173	0.001424	0.014239
6-Nov-2030	0.041646	9.333800	14.805600	2.190070	32.325207	1.265720	0.014003	0.136388	0.032477	0.002643	0.001343	0.088678	0.000457	0.008983	0.005199	0.001431	0.014310
7-Nov-2030	0.041708	9.385240	14.887200	2.202140	32.503357	1.272700	0.014080	0.137139	0.032656	0.002658	0.001351	0.089167	0.000460	0.009032	0.005228	0.001439	0.014389
8-Nov-2030	0.041734	9.437150	14.969500	2.214320	32.683133	1.279740	0.014158	0.137898	0.032836	0.002673	0.001358	0.089660	0.000462	0.009082	0.005257	0.001447	0.014469
9-Nov-2030	0.041783	9.489150	15.052000	2.226520	32.863217	1.286790	0.014236	0.138658	0.033017	0.002687	0.001366	0.090154	0.000465	0.009132	0.005286	0.001455	0.014548
10-Nov-2030	0.041838	9.540870	15.134100	2.238660	33.042354	1.293800	0.014314	0.139414	0.033197	0.002702	0.001373	0.090646	0.000468	0.009182	0.005315	0.001463	0.014628
11-Nov-2030	0.041898	9.593670	15.217800	2.251050	33.225218	1.300960	0.014393	0.140185	0.033381	0.002717	0.001381	0.091147	0.000470	0.009233	0.005344	0.001471	0.014709
12-Nov-2030	0.041960	9.652010	15.310400	2.264740	33.427268	1.308870	0.014481	0.141038	0.033584	0.002734	0.001389	0.091702	0.000473	0.009289	0.005376	0.001480	0.014798
13-Nov-2030	0.042055	9.713280	15.407600	2.279110	33.639435	1.317180	0.014573	0.141933	0.033797	0.002751	0.001398	0.092284	0.000476	0.009348	0.005411	0.001489	0.014892
14-Nov-2030	0.042057	9.772980	15.502300	2.293120	33.846199	1.325280	0.014662	0.142805	0.034005	0.002768	0.001407	0.092851	0.000479	0.009406	0.005444	0.001498	0.014983
15-Nov-2030	0.041997	9.845020	15.616500	2.310020	34.095677	1.335050	0.014770	0.143858	0.034255	0.002788	0.001417	0.093535	0.000482	0.009475	0.005484	0.001509	0.015094
16-Nov-2030	0.041921	9.907410	15.715500	2.324660	34.311753	1.343510	0.014864	0.144770	0.034472	0.002806	0.001426	0.094128	0.000485	0.009535	0.005519	0.001519	0.015190
17-Nov-2030	0.041933	9.984070	15.837100	2.342650	34.577255	1.353900	0.014979	0.145890	0.034739	0.002828	0.001437	0.094856	0.000489	0.009609	0.005561	0.001531	0.015307
18-Nov-2030	0.041917	10.050400	15.942200	2.358200	34.806916	1.362890	0.015078	0.146858	0.034970	0.002846	0.001446	0.095486	0.000492	0.009673	0.005598	0.001541	0.015409
19-Nov-2030	0.041900	10.089900	16.005000	2.367480	34.943763	1.368250	0.015138	0.147436	0.035107	0.002858	0.001452	0.095862	0.000494	0.009711	0.005620	0.001547	0.015469
20-Nov-2030	0.041892	10.129100	16.067100	2.376670	35.079490	1.373570	0.015196	0.148009	0.035244	0.002869	0.001458	0.096234	0.000496	0.009748	0.005642	0.001553	0.015529
21-Nov-2030	0.041897	10.190700	16.164800	2.391130	35.292851	1.381920	0.015289	0.148909	0.035458	0.002886	0.001467	0.096820	0.000499	0.009808	0.005677	0.001562	0.015624
22-Nov-2030	0.041893	10.243700	16.248900	2.403560	35.476379	1.389110	0.015368	0.149683	0.035642	0.002901	0.001474	0.097323	0.000502	0.009859	0.005706	0.001571	0.015705
23-Nov-2030	0.041891	10.299300	16.337100	2.416600	35.668911	1.396640	0.015452	0.150495	0.035836	0.002917	0.001482	0.097851	0.000505	0.009912	0.005737	0.001579	0.015790
24-Nov-2030	0.041890	10.353500	16.423000	2.429320	35.856629	1.404000	0.015533	0.151287	0.036024	0.002932	0.001490	0.098366	0.000507	0.009964	0.005767	0.001587	0.015873
25-Nov-2030	0.041889	10.338600	16.399500	2.425840	35.805093	1.401980	0.015511	0.151070	0.035973	0.002928	0.001488	0.098225	0.000507	0.009950	0.005759	0.001585	0.015851
26-Nov-2030	0.041890	10.394400	16.488000	2.438940	35.998372	1.409550	0.015594	0.151886	0.036167	0.002944	0.001496	0.098755	0.000509	0.010004	0.005790	0.001594	0.015936
27-Nov-2030	0.041890	10.447600	16.572400	2.451420	36.182605	1.416770	0.015674	0.152664	0.036352	0.002959	0.001504	0.099261	0.000512	0.010055	0.005820	0.001602	0.016018
28-Nov-2030	0.041892	10.503700	16.661300	2.464570	36.376838	1.424360	0.015758	0.153482	0.036547	0.002975	0.001512	0.099793	0.000515	0.010109	0.005851	0.001610	0.016104
29-Nov-2030	0.041895	10.563500	16.756200	2.478600	36.583934	1.432470	0.015848	0.154356	0.036755	0.002992	0.001520	0.100361	0.000518	0.010166	0.005884	0.001620	0.016195
30-Nov-2030	0.041900	10.632300	16.865400	2.494760	36.822275	1.441810	0.015951	0.155362	0.036995	0.003011	0.001530	0.101015	0.000521	0.010233	0.005923	0.001630	0.016301
1-Dec-2030	0.041895	10.676800	16.936000	2.505200	36.976383	1.447850	0.016018	0.156013	0.037149	0.003024	0.001537	0.101438	0.000523	0.010275	0.005947	0.001637	0.016369
2-Dec-2030	0.041896	10.732700	17.024700	2.518320	37.169994	1.455430	0.016102	0.156829	0.037344	0.003040	0.001545	0.101969	0.000526	0.010329	0.005978	0.001645	0.016455

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
3-Dec-2030	0.041896	10.796000	17.125000	2.533150	37.389124	1.464000	0.016197	0.157753	0.037564	0.003058	0.001554	0.102570	0.000529	0.010390	0.006014	0.001655	0.016552
4-Dec-2030	0.041893	10.847900	17.207300	2.545340	37.568916	1.471040	0.016275	0.158512	0.037745	0.003072	0.001561	0.103063	0.000532	0.010440	0.006043	0.001663	0.016631
5-Dec-2030	0.041892	10.913800	17.311800	2.560790	37.797092	1.479970	0.016374	0.159475	0.037974	0.003091	0.001571	0.103689	0.000535	0.010503	0.006079	0.001673	0.016732
6-Dec-2030	0.041891	10.949400	17.368400	2.569160	37.920453	1.484810	0.016427	0.159996	0.038098	0.003101	0.001576	0.104028	0.000537	0.010538	0.006099	0.001679	0.016787
7-Dec-2030	0.041891	11.004800	17.456100	2.582140	38.112238	1.492310	0.016510	0.160804	0.038290	0.003117	0.001584	0.104554	0.000539	0.010591	0.006130	0.001687	0.016872
8-Dec-2030	0.041891	11.064000	17.550200	2.596050	38.317342	1.500350	0.016599	0.161670	0.038497	0.003133	0.001592	0.105117	0.000542	0.010648	0.006163	0.001696	0.016963
9-Dec-2030	0.041890	11.118400	17.636400	2.608800	38.505683	1.507720	0.016681	0.162465	0.038686	0.003149	0.001600	0.105633	0.000545	0.010700	0.006193	0.001705	0.017046
10-Dec-2030	0.041890	11.180100	17.734200	2.623280	38.719377	1.516090	0.016773	0.163366	0.038900	0.003166	0.001609	0.106219	0.000548	0.010760	0.006228	0.001714	0.017141
11-Dec-2030	0.041890	11.235600	17.822300	2.636300	38.911577	1.523610	0.016856	0.164177	0.039094	0.003182	0.001617	0.106747	0.000551	0.010813	0.006259	0.001723	0.017226
12-Dec-2030	0.041890	11.296200	17.918500	2.650530	39.121494	1.531840	0.016947	0.165063	0.039305	0.003199	0.001626	0.107323	0.000554	0.010872	0.006292	0.001732	0.017319
13-Dec-2030	0.041890	11.356900	18.014700	2.664770	39.331702	1.540060	0.017038	0.165950	0.039516	0.003216	0.001635	0.107899	0.000556	0.010930	0.006326	0.001741	0.017412
14-Dec-2030	0.041890	11.421400	18.117100	2.679910	39.555105	1.548820	0.017135	0.166893	0.039740	0.003235	0.001644	0.108512	0.000560	0.010992	0.006362	0.001751	0.017511
15-Dec-2030	0.041890	11.484500	18.217100	2.694700	39.773571	1.557370	0.017230	0.167814	0.039960	0.003253	0.001653	0.109112	0.000563	0.011053	0.006397	0.001761	0.017607
16-Dec-2030	0.041890	11.531900	18.292400	2.705840	39.937803	1.563800	0.017301	0.168507	0.040125	0.003266	0.001660	0.109562	0.000565	0.011098	0.006424	0.001768	0.017680
17-Dec-2030	0.041890	11.594400	18.391500	2.720500	40.154236	1.572270	0.017395	0.169420	0.040342	0.003284	0.001669	0.110156	0.000568	0.011159	0.006458	0.001778	0.017776
18-Dec-2030	0.041890	11.670800	18.512600	2.738420	40.418801	1.582630	0.017509	0.170537	0.040608	0.003305	0.001680	0.110882	0.000572	0.011232	0.006501	0.001789	0.017893
19-Dec-2030	0.041890	11.719300	18.589600	2.749800	40.586769	1.589210	0.017582	0.171245	0.040777	0.003319	0.001687	0.111343	0.000574	0.011279	0.006528	0.001797	0.017967
20-Dec-2030	0.041890	11.771900	18.673100	2.762150	40.768968	1.596350	0.017661	0.172014	0.040960	0.003334	0.001694	0.111843	0.000577	0.011329	0.006557	0.001805	0.018048
21-Dec-2030	0.041890	11.830100	18.765300	2.775800	40.970504	1.604230	0.017748	0.172864	0.041162	0.003350	0.001703	0.112395	0.000580	0.011385	0.006590	0.001814	0.018137
22-Dec-2030	0.041890	11.907800	18.888600	2.794030	41.239592	1.614770	0.017865	0.174000	0.041432	0.003372	0.001714	0.113133	0.000583	0.011460	0.006633	0.001826	0.018256
23-Dec-2030	0.041890	11.968500	18.984800	2.808270	41.449800	1.623000	0.017956	0.174886	0.041644	0.003390	0.001723	0.113710	0.000586	0.011519	0.006667	0.001835	0.018349
24-Dec-2030	0.041890	12.011000	19.052200	2.818240	41.596979	1.628760	0.018020	0.175507	0.041791	0.003402	0.001729	0.114114	0.000589	0.011559	0.006691	0.001841	0.018415
25-Dec-2030	0.041890	12.077200	19.157200	2.833770	41.826233	1.637740	0.018119	0.176475	0.042022	0.003420	0.001738	0.114742	0.000592	0.011623	0.006727	0.001852	0.018516
26-Dec-2030	0.041890	12.157500	19.284600	2.852610	42.104325	1.648630	0.018240	0.177648	0.042301	0.003443	0.001750	0.115505	0.000596	0.011700	0.006772	0.001864	0.018639
27-Dec-2030	0.041890	12.223100	19.388800	2.868020	42.331587	1.657530	0.018338	0.178607	0.042530	0.003462	0.001759	0.116129	0.000599	0.011764	0.006809	0.001874	0.018740
28-Dec-2030	0.041890	12.268800	19.461200	2.878730	42.489804	1.663720	0.018407	0.179275	0.042689	0.003475	0.001766	0.116563	0.000601	0.011808	0.006834	0.001881	0.018810
29-Dec-2030	0.041890	12.341400	19.576300	2.895770	42.741257	1.673570	0.018515	0.180335	0.042941	0.003495	0.001776	0.117253	0.000605	0.011877	0.006875	0.001892	0.018921
30-Dec-2030	0.041890	12.437300	19.728400	2.918260	43.073333	1.686570	0.018659	0.181736	0.043275	0.003522	0.001790	0.118164	0.000609	0.011970	0.006928	0.001907	0.019068
31-Dec-2030	0.041890	12.489900	19.811900	2.930600	43.255491	1.693700	0.018738	0.182505	0.043458	0.003537	0.001798	0.118663	0.000612	0.012020	0.006957	0.001915	0.019149
1-Jan-2031	0.041890	12.537400	19.887300	2.941760	43.420055	1.700150	0.018810	0.183200	0.043623	0.003551	0.001804	0.119115	0.000614	0.012066	0.006984	0.001922	0.019222
2-Jan-2031	0.041890	12.613500	20.008100	2.959630	43.683666	1.710480	0.018924	0.184312	0.043888	0.003572	0.001815	0.119839	0.000618	0.012139	0.007026	0.001934	0.019338
3-Jan-2031	0.041890	12.703100	20.150200	2.980650	43.993957	1.722630	0.019058	0.185621	0.044200	0.003598	0.001828	0.120690	0.000622	0.012226	0.007076	0.001948	0.019476
4-Jan-2031	0.041890	12.758200	20.237500	2.993570	44.184747	1.730090	0.019141	0.186426	0.044391	0.003613	0.001836	0.121213	0.000625	0.012279	0.007107	0.001956	0.019560
5-Jan-2031	0.041890	12.818300	20.332900	3.007680	44.392921	1.738250	0.019231	0.187305	0.044601	0.003630	0.001845	0.121784	0.000628	0.012336	0.007140	0.001965	0.019652
6-Jan-2031	0.041890	12.886900	20.441700	3.023780	44.630515	1.747550	0.019334	0.188307	0.044839	0.003650	0.001855	0.122436	0.000631	0.012402	0.007178	0.001976	0.019758
7-Jan-2031	0.041890	12.956600	20.552200	3.040120	44.871844	1.756990	0.019438	0.189325	0.045082	0.003669	0.001865	0.123098	0.000635	0.012470	0.007217	0.001986	0.019864
8-Jan-2031	0.041890	13.015700	20.646000	3.053990	45.076534	1.765010	0.019527	0.190189	0.045287	0.003686	0.001873	0.123659	0.000638	0.012526	0.007250	0.001996	0.019955
9-Jan-2031	0.041890	13.080700	20.749100	3.069240	45.301638	1.773830	0.019625	0.191139	0.045514	0.003705	0.001883	0.124277	0.000641	0.012589	0.007286	0.002005	0.020055
10-Jan-2031	0.041890	13.156600	20.869500	3.087050	45.564502	1.784120	0.019738	0.192248	0.045778	0.003726	0.001894	0.124998	0.000645	0.012662	0.007329	0.002017	0.020171
11-Jan-2031	0.041890	13.220000	20.970100	3.101930	45.784088	1.792720	0.019834	0.193174	0.045998	0.003744	0.001903	0.125601	0.000648	0.012723	0.007364	0.002027	0.020268
12-Jan-2031	0.041890	13.278100	21.062200	3.115560	45.985292	1.800600	0.019921	0.194023	0.046200	0.003761	0.001911	0.126153	0.000651	0.012779	0.007396	0.002036	0.020357
13-Jan-2031	0.041890	13.339500	21.159600	3.129960	46.197907	1.808920	0.020013	0.194920	0.046414	0.003778	0.001920	0.126736	0.000654	0.012838	0.007431	0.002045	0.020451
14-Jan-2031	0.041890	13.418300	21.284600	3.148450	46.470812	1.819610	0.020131	0.196072	0.046688	0.003800	0.001931	0.127484	0.000658	0.012914	0.007474	0.002057	0.020572
15-Jan-2031	0.041890	13.489700	21.397800	3.165200	46.718075	1.829280	0.020238	0.197114	0.046937	0.003820	0.001941	0.128162	0.000661	0.012983	0.007514	0.002068	0.020682
16-Jan-2031	0.041890	13.555000	21.501500	3.180530	46.944258	1.838150	0.020336	0.198069	0.047164	0.003839	0.001951	0.128783	0.000664	0.013045	0.007551	0.002078	0.020782
17-Jan-2031	0.041890	13.643600	21.642000	3.201320	47.251105	1.850160	0.020469	0.199364	0.047472	0.003864	0.001964	0.129625	0.000669	0.013131	0.007600	0.002092	0.020918
18-Jan-2031	0.041890	13.663100	21.672900	3.205890	47.318616	1.852800	0.020498	0.199648	0.047540	0.003870	0.001966	0.129810	0.000670	0.013149	0.007611	0.002095	0.020948
19-Jan-2031	0.041890	13.730400	21.779600	3.221680	47.551687	1.861930	0.020599	0.200632	0.047774	0.003889	0.001976	0.130449	0.000673	0.013214	0.007648	0.002105	0.021051
20-Jan-2031	0.041890	13.799800	21.889800	3.237970	47.792061	1.871340	0.020703	0.201646	0.048016	0.003908	0.001986	0.131109	0.000676	0.013281	0.007687	0.002116	0.021157
21-Jan-2031	0.041890	13.871300	22.003100	3.254730	48.039614	1.881030	0.020811	0.202690	0.048264	0.003928	0.001996	0.131788	0.000680	0.013350	0.007727	0.002127	0.021267
22-Jan-2031	0.041890	13.942000	22.115400	3.271340	48.284552	1.890630	0.020917	0.203724	0.048511	0.003949	0.002007	0.132460	0.000683	0.013418	0.007766	0.002138	0.021375

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
23-Jan-2031	0.041890	14.013100	22.228000	3.288010	48.530736	1.900260	0.021023	0.204762	0.048758	0.003969	0.002017	0.133135	0.000687	0.013486	0.007806	0.002148	0.021484
24-Jan-2031	0.041890	14.084700	22.341700	3.304830	48.778786	1.909980	0.021131	0.205810	0.049007	0.003989	0.002027	0.133816	0.000690	0.013555	0.007846	0.002159	0.021594
25-Jan-2031	0.041890	14.157300	22.456800	3.321840	49.030115	1.919810	0.021240	0.206870	0.049259	0.004009	0.002038	0.134505	0.000694	0.013625	0.007886	0.002171	0.021705
26-Jan-2031	0.041890	14.227200	22.567700	3.338260	49.272273	1.929300	0.021345	0.207892	0.049503	0.004029	0.002048	0.135170	0.000697	0.013692	0.007925	0.002181	0.021812
27-Jan-2031	0.041890	14.293900	22.673500	3.353900	49.503229	1.938340	0.021445	0.208866	0.049735	0.004048	0.002057	0.135803	0.000700	0.013757	0.007962	0.002191	0.021915
28-Jan-2031	0.041890	14.361600	22.781000	3.369800	49.737752	1.947530	0.021546	0.209856	0.049971	0.004067	0.002067	0.136447	0.000704	0.013822	0.008000	0.002202	0.022019
29-Jan-2031	0.041890	14.435400	22.897900	3.387090	49.993230	1.957520	0.021657	0.210933	0.050227	0.004088	0.002078	0.137147	0.000707	0.013893	0.008041	0.002213	0.022132
30-Jan-2031	0.041890	14.510300	23.016700	3.404670	50.252650	1.967680	0.021769	0.212028	0.050488	0.004109	0.002088	0.137859	0.000711	0.013965	0.008083	0.002225	0.022246
31-Jan-2031	0.041890	14.613400	23.180300	3.428870	50.609746	1.981670	0.021924	0.213535	0.050847	0.004139	0.002103	0.138839	0.000716	0.014064	0.008140	0.002240	0.022405
1-Feb-2031	0.041890	14.719500	23.348600	3.453770	50.977216	1.996060	0.022083	0.215085	0.051216	0.004169	0.002118	0.139847	0.000721	0.014166	0.008199	0.002257	0.022567
2-Feb-2031	0.041890	14.875000	23.595300	3.490260	51.515766	2.017150	0.022317	0.217358	0.051757	0.004213	0.002141	0.141325	0.000729	0.014316	0.008286	0.002281	0.022806
3-Feb-2031	0.041890	15.005600	23.802400	3.520890	51.968008	2.034850	0.022512	0.219265	0.052211	0.004250	0.002160	0.142565	0.000735	0.014441	0.008359	0.002301	0.023006
4-Feb-2031	0.041890	15.126700	23.994600	3.549320	52.387470	2.051280	0.022694	0.221036	0.052633	0.004284	0.002177	0.143716	0.000741	0.014558	0.008426	0.002319	0.023192
5-Feb-2031	0.041890	15.244500	24.181300	3.576940	52.795355	2.067240	0.022871	0.222756	0.053042	0.004317	0.002194	0.144834	0.000747	0.014671	0.008492	0.002337	0.023372
6-Feb-2031	0.041890	15.361900	24.367700	3.604510	53.202036	2.083170	0.023047	0.224472	0.053451	0.004351	0.002211	0.145950	0.000753	0.014784	0.008557	0.002355	0.023552
7-Feb-2031	0.041890	15.478800	24.553000	3.631920	53.606810	2.099020	0.023222	0.226179	0.053857	0.004384	0.002228	0.147060	0.000758	0.014897	0.008622	0.002373	0.023731
8-Feb-2031	0.041890	15.220600	24.143500	3.571340	52.712616	2.064010	0.022835	0.222407	0.052959	0.004311	0.002191	0.144608	0.000746	0.014648	0.008478	0.002334	0.023335
9-Feb-2031	0.041890	15.533000	24.638900	3.644630	53.794487	2.106370	0.023304	0.226971	0.054046	0.004399	0.002236	0.147575	0.000761	0.014949	0.008652	0.002381	0.023814
10-Feb-2031	0.041890	15.809000	25.076800	3.709400	54.750382	2.143800	0.023718	0.231005	0.055006	0.004477	0.002275	0.150198	0.000775	0.015215	0.008806	0.002424	0.024238
11-Feb-2031	0.041890	16.079900	25.506500	3.772970	55.688601	2.180540	0.024124	0.234964	0.055949	0.004554	0.002314	0.152772	0.000788	0.015475	0.008957	0.002465	0.024653
12-Feb-2031	0.041890	16.373700	25.972600	3.841910	56.706114	2.220380	0.024565	0.239257	0.056971	0.004637	0.002357	0.155563	0.000802	0.015758	0.009121	0.002510	0.025103
13-Feb-2031	0.041890	16.678100	26.455300	3.913320	57.760267	2.261650	0.025022	0.243704	0.058030	0.004723	0.002400	0.158455	0.000817	0.016051	0.009290	0.002557	0.025570
14-Feb-2031	0.041890	16.917900	26.835800	3.969600	58.590809	2.294180	0.025381	0.247209	0.058865	0.004791	0.002435	0.160734	0.000829	0.016282	0.009424	0.002594	0.025938
15-Feb-2031	0.041890	17.097500	27.120700	4.011740	59.212803	2.318530	0.025651	0.249834	0.059490	0.004842	0.002461	0.162440	0.000838	0.016455	0.009524	0.002621	0.026213
16-Feb-2031	0.041890	17.256300	27.372500	4.048990	59.762722	2.340060	0.025889	0.252153	0.060042	0.004887	0.002484	0.163948	0.000846	0.016608	0.009612	0.002646	0.026456
17-Feb-2031	0.041890	17.427500	27.644200	4.089170	60.355670	2.363280	0.026146	0.254655	0.060638	0.004936	0.002508	0.165575	0.000854	0.016772	0.009708	0.002672	0.026719
18-Feb-2031	0.041890	17.624800	27.957200	4.135470	61.038991	2.390040	0.026442	0.257539	0.061325	0.004992	0.002537	0.167450	0.000864	0.016962	0.009818	0.002702	0.027022
19-Feb-2031	0.041890	17.833600	28.288300	4.184460	61.762105	2.418350	0.026755	0.260589	0.062051	0.005051	0.002567	0.169433	0.000874	0.017163	0.009934	0.002734	0.027342
20-Feb-2031	0.041890	18.023300	28.589200	4.228960	62.419037	2.444070	0.027040	0.263361	0.062711	0.005104	0.002594	0.171235	0.000883	0.017346	0.010040	0.002763	0.027632
21-Feb-2031	0.041890	18.192900	28.858200	4.268760	63.006425	2.467070	0.027294	0.265839	0.063301	0.005152	0.002618	0.172847	0.000891	0.017509	0.010134	0.002789	0.027892
22-Feb-2031	0.041890	18.370300	29.139600	4.310380	63.620784	2.491130	0.027560	0.268431	0.063918	0.005203	0.002644	0.174532	0.000900	0.017680	0.010233	0.002816	0.028164
23-Feb-2031	0.041890	18.549400	29.423700	4.352400	64.241035	2.515410	0.027829	0.271048	0.064542	0.005253	0.002670	0.176234	0.000909	0.017852	0.010333	0.002844	0.028439
24-Feb-2031	0.041890	18.728000	29.707000	4.394310	64.859585	2.539630	0.028097	0.273658	0.065163	0.005304	0.002695	0.177931	0.000918	0.018024	0.010432	0.002871	0.028713
25-Feb-2031	0.041890	18.907400	29.991600	4.436410	65.480914	2.563960	0.028366	0.276280	0.065787	0.005355	0.002721	0.179635	0.000926	0.018197	0.010532	0.002899	0.028988
26-Feb-2031	0.041890	19.090300	30.281700	4.479320	66.114319	2.588760	0.028641	0.278952	0.066423	0.005407	0.002748	0.181372	0.000935	0.018373	0.010634	0.002927	0.029268
27-Feb-2031	0.041890	19.276300	30.576800	4.522970	66.758512	2.613990	0.028920	0.281671	0.067071	0.005459	0.002774	0.183140	0.000945	0.018552	0.010738	0.002955	0.029553
28-Feb-2031	0.041890	19.464000	30.874500	4.567010	67.408555	2.639440	0.029201	0.284413	0.067724	0.005512	0.002801	0.184923	0.000954	0.018732	0.010842	0.002984	0.029841
1-Mar-2031	0.041890	19.648900	31.167800	4.610390	68.048889	2.664510	0.029479	0.287115	0.068367	0.005565	0.002828	0.186680	0.000963	0.018910	0.010945	0.003012	0.030125
2-Mar-2031	0.041890	16.030000	25.427400	3.761260	55.515779	2.173770	0.024049	0.234234	0.055775	0.004540	0.002307	0.152297	0.000785	0.015427	0.008929	0.002458	0.024576
3-Mar-2031	0.041890	16.113600	25.559900	3.780870	55.805282	2.185100	0.024175	0.235456	0.056066	0.004564	0.002319	0.153092	0.000790	0.015508	0.008976	0.002470	0.024705
4-Mar-2031	0.041890	16.203400	25.702500	3.801950	56.116320	2.197290	0.024310	0.236769	0.056379	0.004589	0.002332	0.153945	0.000794	0.015594	0.009026	0.002484	0.024842
5-Mar-2031	0.041890	16.298900	25.853900	3.824350	56.447027	2.210230	0.024453	0.238164	0.056711	0.004616	0.002346	0.154852	0.000799	0.015686	0.009079	0.002499	0.024989
6-Mar-2031	0.041890	16.399400	26.013400	3.847940	56.795119	2.223860	0.024604	0.239632	0.057061	0.004644	0.002360	0.155807	0.000804	0.015783	0.009135	0.002514	0.025143
7-Mar-2031	0.041890	16.505100	26.181000	3.872730	57.161137	2.238190	0.024762	0.241176	0.057428	0.004674	0.002375	0.156811	0.000809	0.015885	0.009194	0.002530	0.025305
8-Mar-2031	0.041890	16.616200	26.357200	3.898800	57.545910	2.253260	0.024929	0.242800	0.057815	0.004706	0.002391	0.157867	0.000814	0.015992	0.009256	0.002548	0.025475
9-Mar-2031	0.041890	16.732600	26.541800	3.926110	57.949023	2.269040	0.025103	0.244500	0.058220	0.004739	0.002408	0.158972	0.000820	0.016104	0.009321	0.002565	0.025654
10-Mar-2031	0.041890	16.853500	26.733600	3.954480	58.367738	2.285440	0.025285	0.246267	0.058641	0.004773	0.002426	0.160121	0.000826	0.016220	0.009388	0.002584	0.025839
11-Mar-2031	0.041890	16.977300	26.930000	3.983540	58.796536	2.302230	0.025471	0.248077	0.059072	0.004808	0.002443	0.161298	0.000832	0.016339	0.009457	0.002603	0.026029
12-Mar-2031	0.041890	17.103100	27.129600	4.013060	59.232222	2.319290	0.025659	0.249915	0.059509	0.004844	0.002462	0.162493	0.000838	0.016460	0.009527	0.002622	0.026222
13-Mar-2031	0.041890	17.230700	27.331900	4.042980	59.674050	2.336590	0.025851	0.251779	0.059953	0.004880	0.002480	0.163705	0.000844	0.016583	0.009598	0.002642	0.026417
14-Mar-2031	0.041890	17.360000	27.537100	4.073340	60.121934	2.354130	0.026045	0.253669	0.060403	0.004917	0.002499	0.164934	0.000851	0.016707	0.009670	0.002662	0.026616

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Mar-2031	0.041890	17.581600	27.888500	4.125310	60.889282	2.384170	0.026377	0.256906	0.061174	0.004979	0.002530	0.167038	0.000862	0.016921	0.009794	0.002696	0.026955
16-Mar-2031	0.041890	17.769300	28.186300	4.169370	61.539408	2.409630	0.026659	0.259650	0.061827	0.005032	0.002557	0.168822	0.000871	0.017101	0.009898	0.002724	0.027243
17-Mar-2031	0.041890	17.963100	28.493800	4.214850	62.210613	2.435920	0.026950	0.262482	0.062502	0.005087	0.002585	0.170664	0.000880	0.017288	0.010006	0.002754	0.027540
18-Mar-2031	0.041890	18.165400	28.814700	4.262320	62.911238	2.463350	0.027253	0.265438	0.063206	0.005145	0.002614	0.172586	0.000890	0.017483	0.010119	0.002785	0.027850
19-Mar-2031	0.041890	18.374900	29.146900	4.311460	63.636718	2.491750	0.027567	0.268498	0.063934	0.005204	0.002645	0.174576	0.000900	0.017684	0.010235	0.002817	0.028171
20-Mar-2031	0.041890	18.590600	29.489100	4.362070	64.383732	2.521000	0.027891	0.271650	0.064685	0.005265	0.002676	0.176625	0.000911	0.017892	0.010356	0.002850	0.028502
21-Mar-2031	0.041890	18.718800	29.692500	4.392160	64.827758	2.538390	0.028083	0.273524	0.065131	0.005301	0.002694	0.177843	0.000917	0.018015	0.010427	0.002870	0.028699
22-Mar-2031	0.041890	18.930500	30.028300	4.441840	65.560956	2.567100	0.028401	0.276618	0.065868	0.005361	0.002725	0.179855	0.000928	0.018219	0.010545	0.002902	0.029023
23-Mar-2031	0.041890	19.147300	30.372100	4.492690	66.311706	2.596490	0.028726	0.279785	0.066622	0.005423	0.002756	0.181914	0.000938	0.018427	0.010666	0.002936	0.029356
24-Mar-2031	0.041890	19.369400	30.724400	4.544800	67.080878	2.626610	0.029059	0.283030	0.067395	0.005486	0.002788	0.184024	0.000949	0.018641	0.010789	0.002970	0.029696
25-Mar-2031	0.041890	19.596900	31.085300	4.598180	67.868765	2.657460	0.029401	0.286354	0.068186	0.005550	0.002820	0.186185	0.000960	0.018860	0.010916	0.003004	0.030045
26-Mar-2031	0.041890	19.829600	31.454400	4.652790	68.674700	2.689020	0.029750	0.289755	0.068996	0.005616	0.002854	0.188396	0.000972	0.019084	0.011046	0.003040	0.030402
27-Mar-2031	0.041890	20.068300	31.833100	4.708810	69.501425	2.721390	0.030108	0.293243	0.069827	0.005684	0.002888	0.190665	0.000983	0.019314	0.011179	0.003077	0.030768
28-Mar-2031	0.041890	20.312800	32.220900	4.766170	70.348150	2.754540	0.030475	0.296816	0.070677	0.005753	0.002923	0.192988	0.000995	0.019549	0.011315	0.003114	0.031143
29-Mar-2031	0.041890	20.563300	32.618300	4.824950	71.215704	2.788510	0.030851	0.300476	0.071549	0.005824	0.002960	0.195367	0.001008	0.019790	0.011454	0.003153	0.031527
30-Mar-2031	0.041890	20.825000	33.033400	4.886360	72.122055	2.824000	0.031243	0.304300	0.072459	0.005898	0.002997	0.197854	0.001020	0.020042	0.011600	0.003193	0.031928
31-Mar-2031	0.041890	21.097100	33.464900	4.950190	73.064341	2.860900	0.031651	0.308276	0.073406	0.005975	0.003036	0.200439	0.001034	0.020304	0.011752	0.003234	0.032345
1-Apr-2031	0.041890	21.377800	33.910200	5.016050	74.036461	2.898960	0.032072	0.312377	0.074383	0.006054	0.003077	0.203105	0.001048	0.020574	0.011908	0.003278	0.032775
2-Apr-2031	0.041890	21.659500	34.357000	5.082150	75.012065	2.937160	0.032495	0.316494	0.075363	0.006134	0.003117	0.205782	0.001061	0.020845	0.012065	0.003321	0.033207
3-Apr-2031	0.041890	21.833100	34.632500	5.122900	75.613353	2.960710	0.032756	0.319031	0.075967	0.006183	0.003142	0.207432	0.001070	0.021012	0.012162	0.003347	0.033473
4-Apr-2031	0.041890	21.901100	34.740300	5.138850	75.848831	2.969930	0.032858	0.320024	0.076204	0.006203	0.003152	0.208078	0.001073	0.021078	0.012200	0.003358	0.033578
5-Apr-2031	0.041890	21.939200	34.800700	5.147780	75.980740	2.975090	0.032915	0.320581	0.076336	0.006213	0.003158	0.208439	0.001075	0.021114	0.012221	0.003364	0.033636
6-Apr-2031	0.041890	21.966600	34.844200	5.154210	76.075637	2.978800	0.032956	0.320981	0.076431	0.006221	0.003161	0.208699	0.001076	0.021141	0.012236	0.003368	0.033678
7-Apr-2031	0.041890	21.988300	34.878600	5.159300	76.150783	2.981750	0.032988	0.321298	0.076507	0.006227	0.003165	0.208906	0.001077	0.021162	0.012248	0.003371	0.033711
8-Apr-2031	0.041890	22.005800	34.906400	5.163410	76.211405	2.984120	0.033015	0.321554	0.076568	0.006232	0.003167	0.209072	0.001078	0.021179	0.012258	0.003374	0.033738
9-Apr-2031	0.041890	22.019600	34.928300	5.166660	76.259247	2.986000	0.033035	0.321756	0.076616	0.006236	0.003169	0.209204	0.001079	0.021192	0.012266	0.003376	0.033759
10-Apr-2031	0.041890	22.030100	34.945000	5.169120	76.295596	2.987420	0.033051	0.321909	0.076652	0.006239	0.003171	0.209303	0.001080	0.021202	0.012272	0.003378	0.033775
11-Apr-2031	0.041890	22.037600	34.956800	5.170870	76.321530	2.988430	0.033062	0.322018	0.076678	0.006241	0.003172	0.209374	0.001080	0.021209	0.012276	0.003379	0.033787
12-Apr-2031	0.041890	22.042200	34.964200	5.171960	76.337505	2.989070	0.033069	0.322087	0.076695	0.006243	0.003172	0.209418	0.001080	0.021214	0.012278	0.003379	0.033794
13-Apr-2031	0.041890	22.044500	34.967800	5.172500	76.345472	2.989380	0.033073	0.322120	0.076703	0.006243	0.003173	0.209440	0.001080	0.021216	0.012280	0.003380	0.033798
14-Apr-2031	0.041890	22.045400	34.969300	5.172710	76.348584	2.989500	0.033074	0.322134	0.076706	0.006243	0.003173	0.209449	0.001080	0.021217	0.012280	0.003380	0.033799
15-Apr-2031	0.041890	22.045600	34.969600	5.172760	76.349289	2.989530	0.033074	0.322136	0.076707	0.006244	0.003173	0.209451	0.001080	0.021217	0.012280	0.003380	0.033799
16-Apr-2031	0.041890	22.045600	34.969600	5.172760	76.349289	2.989530	0.033074	0.322136	0.076706	0.006244	0.003173	0.209451	0.001080	0.021217	0.012280	0.003380	0.033799
17-Apr-2031	0.041890	22.045700	34.969600	5.172770	76.349580	2.989530	0.033074	0.322137	0.076707	0.006244	0.003173	0.209451	0.001080	0.021217	0.012280	0.003380	0.033799
18-Apr-2031	0.041890	22.045900	34.970000	5.172810	76.350244	2.989560	0.033075	0.322140	0.076707	0.006244	0.003173	0.209453	0.001080	0.021217	0.012280	0.003380	0.033800
19-Apr-2031	0.041890	22.046300	34.970600	5.172910	76.351654	2.989610	0.033075	0.322146	0.076709	0.006244	0.003173	0.209457	0.001080	0.021217	0.012281	0.003380	0.033800
20-Apr-2031	0.041890	22.046800	34.971500	5.173040	76.353438	2.989690	0.033076	0.322154	0.076711	0.006244	0.003173	0.209462	0.001080	0.021218	0.012281	0.003380	0.033801
21-Apr-2031	0.041890	22.047500	34.972500	5.173200	76.355845	2.989780	0.033077	0.322164	0.076713	0.006244	0.003173	0.209468	0.001080	0.021219	0.012281	0.003380	0.033802
22-Apr-2031	0.041890	22.048200	34.973700	5.173370	76.358293	2.989880	0.033078	0.322175	0.076716	0.006244	0.003173	0.209476	0.001080	0.021219	0.012282	0.003380	0.033803
23-Apr-2031	0.041890	22.049100	34.975000	5.173570	76.361364	2.989990	0.033080	0.322187	0.076718	0.006245	0.003173	0.209483	0.001080	0.021220	0.012282	0.003380	0.033804
24-Apr-2031	0.041890	22.050000	34.976500	5.173780	76.364476	2.990120	0.033081	0.322200	0.076722	0.006245	0.003174	0.209492	0.001080	0.021221	0.012283	0.003381	0.033806
25-Apr-2031	0.041890	22.051000	34.978100	5.174020	76.367961	2.990260	0.033082	0.322215	0.076725	0.006245	0.003174	0.209502	0.001081	0.021222	0.012283	0.003381	0.033807
26-Apr-2031	0.041890	22.052200	34.979900	5.174290	76.372070	2.990410	0.033084	0.322232	0.076729	0.006245	0.003174	0.209513	0.001081	0.021223	0.012284	0.003381	0.033809
27-Apr-2031	0.041890	22.053300	34.981800	5.174560	76.375928	2.990570	0.033086	0.322249	0.076733	0.006246	0.003174	0.209524	0.001081	0.021224	0.012284	0.003381	0.033811
28-Apr-2031	0.041890	22.054500	34.983600	5.174830	76.380036	2.990720	0.033088	0.322265	0.076737	0.006246	0.003174	0.209534	0.001081	0.021225	0.012285	0.003381	0.033813
29-Apr-2031	0.041890	22.055400	34.985100	5.175060	76.383231	2.990850	0.033089	0.322279	0.076741	0.006246	0.003174	0.209544	0.001081	0.021226	0.012286	0.003381	0.033814
30-Apr-2031	0.041900	22.055600	34.985400	5.175100	76.383895	2.990880	0.033089	0.322282	0.076741	0.006246	0.003174	0.209545	0.001081	0.021226	0.012286	0.003381	0.033814
1-May-2031	0.042115	22.044800	34.968300	5.172560	76.346468	2.989410	0.033073	0.322124	0.076704	0.006243	0.003173	0.209443	0.001080	0.021216	0.012280	0.003380	0.033798
2-May-2031	0.043368	21.978300	34.862900	5.156970	76.116218	2.980400	0.032973	0.321153	0.076472	0.006224	0.003163	0.208811	0.001077	0.021152	0.012243	0.003370	0.033696
3-May-2031	0.049754	21.752400	34.504400	5.103950	75.333809	2.949760	0.032634	0.317851	0.075686	0.006160	0.003131	0.206665	0.001066	0.020935	0.012117	0.003335	0.033350
4-May-2031	0.058612	21.439400	34.008000	5.030520	74.249863	2.907320	0.032165	0.313278	0.074597	0.006072	0.003086	0.203691	0.001051	0.020633	0.011943	0.003287	0.032870

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-May-2031	0.067522	21.074400	33.429000	4.944870	72.985751	2.857820	0.031617	0.307945	0.073327	0.005968	0.003033	0.200223	0.001033	0.020282	0.011739	0.003231	0.032310
6-May-2031	0.075851	20.528500	32.563100	4.816790	71.095206	2.783800	0.030798	0.299968	0.071428	0.005814	0.002955	0.195037	0.001006	0.019757	0.011435	0.003147	0.031473
7-May-2031	0.087845	19.977200	31.688600	4.687440	69.185946	2.709040	0.029971	0.291913	0.069510	0.005658	0.002875	0.189799	0.000979	0.019226	0.011128	0.003063	0.030628
8-May-2031	0.095427	19.556500	31.021300	4.588720	67.728929	2.651990	0.029340	0.285765	0.068046	0.005539	0.002815	0.185802	0.000958	0.018821	0.010894	0.002998	0.029983
9-May-2031	0.103425	19.083600	30.271200	4.477760	66.091165	2.587860	0.028631	0.278855	0.066400	0.005405	0.002747	0.181310	0.000935	0.018366	0.010630	0.002926	0.029258
10-May-2031	0.094860	18.873900	29.938400	4.428540	65.364856	2.559420	0.028316	0.275790	0.065671	0.005345	0.002716	0.179317	0.000925	0.018164	0.010513	0.002894	0.028936
11-May-2031	0.149702	18.801500	29.823600	4.411560	65.114150	2.549600	0.028207	0.274732	0.065419	0.005325	0.002706	0.178629	0.000921	0.018095	0.010473	0.002883	0.028825
12-May-2031	0.151624	18.479200	29.312300	4.335930	63.997922	2.505890	0.027724	0.270022	0.064297	0.005233	0.002660	0.175566	0.000905	0.017784	0.010294	0.002833	0.028331
13-May-2031	0.152336	18.174700	28.829300	4.264480	62.943355	2.464600	0.027267	0.265573	0.063238	0.005147	0.002616	0.172673	0.000891	0.017491	0.010124	0.002786	0.027864
14-May-2031	0.152751	17.800900	28.236500	4.176790	61.648869	2.413920	0.026706	0.260112	0.061937	0.005041	0.002562	0.169123	0.000872	0.017132	0.009916	0.002729	0.027291
15-May-2031	0.160750	17.345400	27.513900	4.069900	60.071312	2.352140	0.026023	0.253455	0.060352	0.004912	0.002496	0.164795	0.000850	0.016693	0.009662	0.002659	0.026593
16-May-2031	0.168591	17.071200	27.079000	4.005570	59.121724	2.314970	0.025611	0.249449	0.059398	0.004835	0.002457	0.162190	0.000837	0.016429	0.009509	0.002617	0.026173
17-May-2031	0.171560	16.936200	26.864900	3.973900	58.654212	2.296660	0.025409	0.247477	0.058929	0.004797	0.002438	0.160907	0.000830	0.016300	0.009434	0.002597	0.025966
18-May-2031	0.174550	16.592000	26.318900	3.893130	57.462133	2.249980	0.024893	0.242447	0.057731	0.004699	0.002388	0.157637	0.000813	0.015968	0.009242	0.002544	0.025438
19-May-2031	0.179246	16.358800	25.948900	3.838400	56.654455	2.218350	0.024543	0.239039	0.056919	0.004633	0.002354	0.155421	0.000802	0.015744	0.009112	0.002508	0.025080
20-May-2031	0.214870	14.970000	23.745900	3.512530	51.844689	2.030020	0.022459	0.218745	0.052087	0.004240	0.002155	0.142226	0.000734	0.014407	0.008339	0.002295	0.022951
21-May-2031	0.221299	14.499000	22.998800	3.402020	50.213521	1.966150	0.021752	0.211863	0.050448	0.004106	0.002087	0.137752	0.000710	0.013954	0.008076	0.002223	0.022229
22-May-2031	0.227391	14.055800	22.295800	3.298040	48.678661	1.906060	0.021088	0.205387	0.048906	0.003981	0.002023	0.133541	0.000689	0.013527	0.007830	0.002155	0.021550
23-May-2031	0.229556	13.540900	21.479000	3.177220	46.895419	1.836230	0.020315	0.197863	0.047115	0.003835	0.001949	0.128649	0.000664	0.013032	0.007543	0.002076	0.020760
24-May-2031	0.246018	12.342200	19.577700	2.895970	42.744078	1.673680	0.018517	0.180348	0.042944	0.003495	0.001776	0.117261	0.000605	0.011878	0.006875	0.001892	0.018923
25-May-2031	0.265920	11.151600	17.689000	2.616590	38.620663	1.512220	0.016730	0.162950	0.038801	0.003158	0.001605	0.105949	0.000546	0.010732	0.006212	0.001710	0.017097
26-May-2031	0.280101	10.517400	16.683100	2.467790	36.424307	1.426230	0.015779	0.153683	0.036595	0.002979	0.001514	0.099924	0.000515	0.010122	0.005859	0.001612	0.016125
27-May-2031	0.291354	10.054600	15.949000	2.359200	34.821522	1.363470	0.015085	0.146920	0.034984	0.002848	0.001447	0.095527	0.000493	0.009677	0.005601	0.001542	0.015415
28-May-2031	0.302818	9.840960	15.610100	2.309070	34.081627	1.334500	0.014764	0.143799	0.034241	0.002787	0.001416	0.093497	0.000482	0.009471	0.005482	0.001509	0.015088
29-May-2031	0.308452	10.754900	17.059800	2.523510	37.246799	1.458430	0.016135	0.157153	0.037421	0.003046	0.001548	0.102180	0.000527	0.010351	0.005991	0.001649	0.016489
30-May-2031	0.320029	10.670000	16.925200	2.503600	36.952815	1.446920	0.016008	0.155913	0.037126	0.003022	0.001536	0.101373	0.000523	0.010269	0.005944	0.001636	0.016359
31-May-2031	0.324732	10.973200	17.406000	2.574730	38.002819	1.488030	0.016463	0.160343	0.038181	0.003108	0.001579	0.104254	0.000538	0.010561	0.006112	0.001682	0.016824
1-Jun-2031	0.336091	10.837400	17.190700	2.542870	37.532526	1.469620	0.016259	0.158359	0.037708	0.003069	0.001560	0.102964	0.000531	0.010430	0.006037	0.001662	0.016615
2-Jun-2031	0.443474	10.356100	16.427200	2.429940	35.865675	1.404350	0.015537	0.151326	0.036034	0.002933	0.001490	0.098391	0.000507	0.009967	0.005769	0.001588	0.015877
3-Jun-2031	0.464084	10.321900	16.373000	2.421930	35.747292	1.399720	0.015486	0.150827	0.035915	0.002923	0.001486	0.098066	0.000506	0.009934	0.005750	0.001583	0.015825
4-Jun-2031	0.502837	10.295600	16.331300	2.415750	35.656172	1.396150	0.015446	0.150442	0.035823	0.002916	0.001482	0.097816	0.000504	0.009909	0.005735	0.001578	0.015785
5-Jun-2031	0.530682	9.669860	15.338700	2.268920	33.489053	1.311290	0.014507	0.141298	0.033646	0.002739	0.001392	0.091871	0.000474	0.009306	0.005386	0.001483	0.014825
6-Jun-2031	0.561633	9.474900	15.029400	2.223180	32.813881	1.284860	0.014215	0.138450	0.032967	0.002683	0.001364	0.090019	0.000464	0.009119	0.005278	0.001453	0.014526
7-Jun-2031	0.561990	9.424530	14.949500	2.211360	32.639432	1.278020	0.014139	0.137713	0.032792	0.002669	0.001356	0.089541	0.000462	0.009070	0.005250	0.001445	0.014449
8-Jun-2031	0.593643	9.204310	14.599700	2.159890	31.877589	1.248060	0.013808	0.134487	0.032028	0.002607	0.001325	0.087468	0.000451	0.008859	0.005127	0.001411	0.014112
9-Jun-2031	0.585298	9.218180	14.620200	2.163680	31.927830	1.249660	0.013827	0.134665	0.032087	0.002611	0.001328	0.087651	0.000452	0.008873	0.005134	0.001413	0.014133
10-Jun-2031	0.603752	9.000340	14.252100	2.119470	31.201826	1.215620	0.013465	0.131102	0.031603	0.002545	0.001308	0.086135	0.000440	0.008689	0.005009	0.001380	0.013805
11-Jun-2031	0.637613	8.904010	14.062600	2.107900	30.913645	1.195190	0.013264	0.129066	0.031719	0.002510	0.001314	0.086104	0.000433	0.008639	0.004950	0.001367	0.013667
12-Jun-2031	0.691348	8.783280	13.799600	2.100880	30.583274	1.164190	0.012970	0.126053	0.032197	0.002459	0.001335	0.086594	0.000424	0.008608	0.004871	0.001350	0.013503
13-Jun-2031	0.764339	8.709310	13.613700	2.103880	30.410925	1.139880	0.012747	0.123743	0.032792	0.002419	0.001361	0.087391	0.000416	0.008620	0.004819	0.001341	0.013408
14-Jun-2031	0.880459	8.816250	13.727900	2.145310	30.848563	1.142930	0.012819	0.124341	0.033874	0.002435	0.001407	0.089654	0.000419	0.008791	0.004870	0.001359	0.013586
15-Jun-2031	1.014794	8.811560	13.701600	2.149630	30.854642	1.138330	0.012780	0.123919	0.034088	0.002429	0.001416	0.090030	0.000417	0.008809	0.004864	0.001358	0.013583
16-Jun-2031	1.202454	8.912880	13.818400	2.186010	31.257451	1.142900	0.012858	0.124579	0.034963	0.002447	0.001454	0.091969	0.000420	0.008961	0.004914	0.001375	0.013745
17-Jun-2031	1.375103	8.933590	13.821700	2.199200	31.363480	1.139530	0.012838	0.124312	0.035374	0.002445	0.001472	0.092820	0.000420	0.009017	0.004921	0.001378	0.013780
18-Jun-2031	1.556177	8.893710	13.738600	2.195230	31.247551	1.130040	0.012745	0.123350	0.035458	0.002430	0.001477	0.092898	0.000417	0.009003	0.004896	0.001372	0.013721
19-Jun-2031	1.885173	8.707900	13.406600	2.161810	30.645960	1.097240	0.012405	0.119960	0.035254	0.002370	0.001469	0.092002	0.000406	0.008870	0.004788	0.001344	0.013444
20-Jun-2031	2.267487	8.464330	12.971200	2.117970	29.857232	1.054300	0.011962	0.115532	0.034995	0.002291	0.001459	0.090845	0.000391	0.008697	0.004645	0.001308	0.013082
21-Jun-2031	2.446343	8.275690	12.644200	2.081250	29.234985	1.023170	0.011638	0.112327	0.034707	0.002233	0.001446	0.089726	0.000381	0.008550	0.004537	0.001280	0.012801
22-Jun-2031	2.546417	8.109940	12.361700	2.047570	28.682413	0.996822	0.011360	0.109590	0.034388	0.002182	0.001432	0.088636	0.000371	0.008416	0.004442	0.001255	0.012553
23-Jun-2031	2.648803	7.897270	11.998600	2.004480	27.973932	0.962902	0.011004	0.106066	0.033982	0.002118	0.001414	0.087256	0.000360	0.008244	0.004320	0.001223	0.012235
24-Jun-2031	2.730230	7.721380	11.695500	1.969540	27.390852	0.934316	0.010705	0.103111	0.033685	0.002065	0.001401	0.086196	0.000350	0.008105	0.004219	0.001197	0.011971

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-Jun-2031	2.797817	7.583750	11.457300	1.942270	26.934892	0.911838	0.010471	0.100793	0.033466	0.002024	0.001390	0.085422	0.000342	0.007998	0.004140	0.001176	0.011765
26-Jun-2031	2.871643	7.430340	11.194000	1.911200	26.423881	0.887251	0.010213	0.098246	0.033191	0.001980	0.001378	0.084508	0.000334	0.007876	0.004053	0.001153	0.011533
27-Jun-2031	2.968017	7.270520	10.917100	1.879520	25.894352	0.861120	0.009941	0.095547	0.032935	0.001933	0.001366	0.083628	0.000325	0.007752	0.003961	0.001129	0.011293
28-Jun-2031	3.092190	7.134320	10.677600	1.853170	25.445751	0.838266	0.009704	0.093194	0.032755	0.001894	0.001357	0.083005	0.000317	0.007651	0.003883	0.001109	0.011088
29-Jun-2031	3.255433	6.992870	10.424600	1.826900	24.984371	0.813682	0.009451	0.090666	0.032607	0.001853	0.001350	0.082458	0.000308	0.007552	0.003801	0.001088	0.010876
30-Jun-2031	3.475327	6.858510	10.186100	1.801580	24.544606	0.790614	0.009212	0.088278	0.032436	0.001813	0.001342	0.081872	0.000301	0.007455	0.003724	0.001067	0.010674
1-Jul-2031	4.964423	6.677480	9.836080	1.772400	23.972411	0.754652	0.008839	0.084433	0.032362	0.001769	0.001342	0.082112	0.000289	0.007359	0.003618	0.001039	0.010391
2-Jul-2031	6.985343	6.684700	9.821000	1.778680	24.016300	0.751546	0.008820	0.084201	0.032633	0.001783	0.001352	0.083264	0.000288	0.007400	0.003621	0.001040	0.010396
3-Jul-2031	7.063983	6.782070	9.969380	1.800290	24.348423	0.764451	0.008966	0.085614	0.033093	0.001820	0.001366	0.084601	0.000293	0.007508	0.003677	0.001055	0.010545
4-Jul-2031	7.723807	6.829770	10.046600	1.810080	24.507845	0.771474	0.009042	0.086354	0.033255	0.001836	0.001371	0.085085	0.000295	0.007555	0.003705	0.001062	0.010617
5-Jul-2031	8.385027	6.854850	10.083100	1.817520	24.601108	0.774237	0.009074	0.086660	0.033316	0.001844	0.001376	0.085453	0.000296	0.007579	0.003718	0.001065	0.010653
6-Jul-2031	8.215143	6.857680	10.090500	1.817120	24.606527	0.775309	0.009084	0.086756	0.033278	0.001847	0.001374	0.085457	0.000297	0.007578	0.003720	0.001066	0.010656
7-Jul-2031	8.384270	6.803670	10.022500	1.798220	24.393834	0.771813	0.009031	0.086286	0.032891	0.001838	0.001356	0.084592	0.000295	0.007509	0.003694	0.001057	0.010568
8-Jul-2031	8.801367	6.811920	10.043000	1.797210	24.410275	0.774649	0.009056	0.086545	0.032833	0.001845	0.001353	0.084549	0.000296	0.007510	0.003701	0.001058	0.010578
9-Jul-2031	10.545133	6.817710	10.057400	1.796740	24.422797	0.776563	0.009073	0.086721	0.032787	0.001848	0.001351	0.084514	0.000296	0.007510	0.003705	0.001058	0.010585
10-Jul-2031	12.171567	6.826250	10.076500	1.796700	24.443957	0.778982	0.009095	0.086947	0.032743	0.001854	0.001348	0.084507	0.000297	0.007512	0.003711	0.001060	0.010596
11-Jul-2031	13.433067	6.859800	10.135000	1.802000	24.549557	0.784870	0.009155	0.087546	0.032801	0.001867	0.001349	0.084778	0.000299	0.007541	0.003732	0.001064	0.010645
12-Jul-2031	12.915600	6.807260	10.062700	1.786500	24.354535	0.779987	0.009093	0.086967	0.032479	0.001855	0.001336	0.084032	0.000297	0.007477	0.003704	0.001056	0.010561
13-Jul-2031	12.237433	6.779890	10.034200	1.775160	24.239494	0.779443	0.009075	0.086829	0.032208	0.001852	0.001324	0.083455	0.000296	0.007434	0.003692	0.001052	0.010515
14-Jul-2031	13.531200	6.783120	10.042700	1.774760	24.245912	0.780620	0.009085	0.086937	0.032175	0.001855	0.001322	0.083432	0.000297	0.007434	0.003695	0.001052	0.010519
15-Jul-2031	14.781000	6.844580	10.137000	1.789740	24.461066	0.788432	0.009173	0.087785	0.032418	0.001873	0.001332	0.084139	0.000300	0.007497	0.003729	0.001061	0.010613
16-Jul-2031	15.913967	6.892370	10.221200	1.797910	24.614041	0.796701	0.009257	0.088622	0.032494	0.001890	0.001334	0.084416	0.000302	0.007535	0.003757	0.001068	0.010684
17-Jul-2031	15.483800	6.979130	10.374300	1.812690	24.891545	0.811661	0.009409	0.090137	0.032656	0.001917	0.001338	0.084849	0.000308	0.007605	0.003809	0.001082	0.010815
18-Jul-2031	13.961567	6.862110	10.220600	1.775930	24.447968	0.802126	0.009281	0.088954	0.031895	0.001888	0.001305	0.082919	0.000303	0.007456	0.003749	0.001063	0.010630
19-Jul-2031	15.003833	6.873830	10.251700	1.774720	24.472250	0.806253	0.009317	0.089328	0.031800	0.001894	0.001300	0.082718	0.000305	0.007454	0.003758	0.001065	0.010646
20-Jul-2031	14.419933	6.858900	10.236700	1.768890	24.410962	0.805943	0.009307	0.089249	0.031636	0.001891	0.001294	0.082365	0.000304	0.007428	0.003750	0.001062	0.010621
21-Jul-2031	13.966400	6.893560	10.301700	1.773840	24.517892	0.812662	0.009373	0.089912	0.031648	0.001903	0.001294	0.082445	0.000307	0.007451	0.003772	0.001067	0.010672
22-Jul-2031	14.720767	6.909470	10.334900	1.775170	24.563097	0.816396	0.009408	0.090269	0.031615	0.001909	0.001292	0.082400	0.000308	0.007457	0.003782	0.001070	0.010695
23-Jul-2031	15.523700	6.952250	10.413300	1.781820	24.697303	0.824316	0.009487	0.091057	0.031653	0.001922	0.001292	0.082532	0.000310	0.007487	0.003808	0.001076	0.010759
24-Jul-2031	15.713233	7.031010	10.541900	1.799200	24.965538	0.835730	0.009609	0.092251	0.031883	0.001945	0.001302	0.083196	0.000314	0.007559	0.003852	0.001088	0.010879
25-Jul-2031	16.258267	7.051050	10.578600	1.802510	25.029208	0.839382	0.009646	0.092617	0.031890	0.001952	0.001302	0.083259	0.000316	0.007572	0.003864	0.001091	0.010909
26-Jul-2031	17.411367	7.074270	10.623700	1.805570	25.099789	0.844152	0.009692	0.093082	0.031875	0.001959	0.001301	0.083268	0.000317	0.007585	0.003878	0.001094	0.010943
27-Jul-2031	17.513300	7.145150	10.745400	1.819330	25.333440	0.855596	0.009810	0.094253	0.032020	0.001981	0.001307	0.083704	0.000321	0.007643	0.003919	0.001105	0.011050
28-Jul-2031	14.801333	7.097750	10.688400	1.803200	25.148659	0.852714	0.009765	0.093850	0.031644	0.001970	0.001291	0.082777	0.000320	0.007576	0.003895	0.001097	0.010974
29-Jul-2031	14.040533	7.093470	10.693900	1.798630	25.119153	0.854544	0.009776	0.093981	0.031493	0.001970	0.001284	0.082415	0.000320	0.007557	0.003895	0.001097	0.010965
30-Jul-2031	14.252600	7.112560	10.731300	1.801080	25.176910	0.858513	0.009814	0.094366	0.031478	0.001976	0.001283	0.082413	0.000321	0.007567	0.003906	0.001099	0.010993
31-Jul-2031	13.970767	7.207950	10.889200	1.821560	25.499435	0.872728	0.009965	0.095846	0.031744	0.002004	0.001294	0.083166	0.000326	0.007653	0.003961	0.001114	0.011138
1-Aug-2031	13.133433	7.162060	10.830800	1.806830	25.324190	0.869296	0.009917	0.095404	0.031404	0.001993	0.001280	0.082328	0.000325	0.007590	0.003937	0.001107	0.011065
2-Aug-2031	11.895733	7.197770	10.897800	1.812260	25.435718	0.876146	0.009984	0.096080	0.031410	0.002004	0.001280	0.082398	0.000327	0.007612	0.003958	0.001112	0.011118
3-Aug-2031	10.665267	7.180350	10.886100	1.803800	25.357382	0.876877	0.009980	0.096073	0.031164	0.002001	0.001270	0.081807	0.000327	0.007576	0.003951	0.001109	0.011089
4-Aug-2031	9.961907	7.156060	10.864700	1.793390	25.253862	0.876894	0.009968	0.095985	0.030884	0.001995	0.001258	0.081126	0.000327	0.007533	0.003939	0.001105	0.011048
5-Aug-2031	11.274500	7.275010	11.060600	1.819450	25.658195	0.894392	0.010154	0.097808	0.031216	0.002030	0.001272	0.082092	0.000333	0.007639	0.004007	0.001123	0.011229
6-Aug-2031	12.270100	7.349060	11.180900	1.835790	25.910386	0.904979	0.010268	0.098919	0.031427	0.002052	0.001280	0.082702	0.000337	0.007706	0.004048	0.001134	0.011342
7-Aug-2031	11.800167	7.404960	11.280700	1.845860	26.091437	0.914684	0.010366	0.099892	0.031490	0.002069	0.001283	0.082944	0.000340	0.007746	0.004081	0.001143	0.011425
8-Aug-2031	12.107300	7.504410	11.452000	1.865200	26.419405	0.930808	0.010532	0.101535	0.031681	0.002099	0.001290	0.083533	0.000346	0.007826	0.004139	0.001158	0.011575
9-Aug-2031	11.516733	7.540500	11.518600	1.871110	26.533859	0.937483	0.010598	0.102195	0.031698	0.002110	0.001291	0.083629	0.000348	0.007850	0.004160	0.001163	0.011629
10-Aug-2031	10.432467	7.602980	11.633200	1.881390	26.732205	0.948933	0.010712	0.103330	0.031740	0.002129	0.001292	0.083805	0.000352	0.007892	0.004197	0.001172	0.011722
11-Aug-2031	9.593107	7.518140	11.515500	1.857350	26.421363	0.940625	0.010608	0.102352	0.031237	0.002106	0.001272	0.082541	0.000348	0.007788	0.004151	0.001159	0.011589
12-Aug-2031	9.676563	7.610520	11.666400	1.878100	26.737484	0.953913	0.010750	0.103739	0.031494	0.002133	0.001283	0.083298	0.000353	0.007870	0.004203	0.001173	0.011729
13-Aug-2031	10.156833	7.670530	11.767300	1.890940	26.940204	0.963070	0.010846	0.104679	0.031621	0.002150	0.001289	0.083721	0.000356	0.007920	0.004237	0.001182	0.011820
14-Aug-2031	10.316733	7.699670	11.824600	1.895050	27.029892	0.969100	0.010903	0.105257	0.031580	0.002159	0.001288	0.083699	0.000358	0.007933	0.004254	0.001186	0.011862

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Aug-2031	9.122713	7.685350	11.813800	1.888760	26.968233	0.969406	0.010898	0.105221	0.031379	0.002156	0.001280	0.083252	0.000358	0.007903	0.004248	0.001184	0.011838
16-Aug-2031	9.498787	7.784940	11.976100	1.911400	27.310140	0.983639	0.011050	0.106706	0.031651	0.002185	0.001293	0.084083	0.000363	0.007992	0.004303	0.001199	0.011989
17-Aug-2031	10.592400	7.868460	12.109700	1.931190	27.600185	0.995067	0.011174	0.107910	0.031905	0.002209	0.001304	0.084845	0.000367	0.008068	0.004349	0.001212	0.012116
18-Aug-2031	10.069433	7.877640	12.132000	1.931650	27.625002	0.997748	0.011197	0.108148	0.031825	0.002212	0.001302	0.084735	0.000368	0.008066	0.004355	0.001213	0.012128
19-Aug-2031	9.775477	7.929940	12.221200	1.942580	27.800605	1.005970	0.011282	0.108983	0.031915	0.002228	0.001307	0.085074	0.000371	0.008107	0.004384	0.001221	0.012207
20-Aug-2031	9.381397	8.012200	12.355600	1.961010	28.081903	1.017830	0.011408	0.110218	0.032141	0.002252	0.001316	0.085760	0.000375	0.008180	0.004430	0.001233	0.012331
21-Aug-2031	9.191337	8.020860	12.379300	1.960600	28.101838	1.020880	0.011434	0.110484	0.032040	0.002255	0.001313	0.085585	0.000376	0.008175	0.004436	0.001234	0.012342
22-Aug-2031	7.766063	7.993470	12.353100	1.949720	27.988642	1.020460	0.011416	0.110340	0.031734	0.002249	0.001301	0.084875	0.000376	0.008127	0.004423	0.001230	0.012297
23-Aug-2031	7.309640	8.006460	12.383600	1.950240	28.023219	1.024100	0.011448	0.110669	0.031655	0.002254	0.001298	0.084743	0.000377	0.008127	0.004431	0.001231	0.012315
24-Aug-2031	7.312967	8.108810	12.556300	1.971500	28.366336	1.039930	0.011612	0.112290	0.031880	0.002284	0.001307	0.085447	0.000382	0.008212	0.004490	0.001247	0.012469
25-Aug-2031	7.576683	8.122230	12.582300	1.973360	28.407505	1.042650	0.011639	0.112553	0.031871	0.002289	0.001307	0.085447	0.000383	0.008219	0.004498	0.001249	0.012489
26-Aug-2031	8.530513	8.301180	12.878400	2.011710	29.012268	1.069230	0.011920	0.115311	0.032358	0.002341	0.001326	0.086824	0.000393	0.008377	0.004599	0.001276	0.012761
27-Aug-2031	8.783587	8.363790	12.978400	2.027320	29.232887	1.077640	0.012011	0.116191	0.032520	0.002358	0.001336	0.087391	0.000396	0.008432	0.004633	0.001286	0.012856
28-Aug-2031	9.115483	8.404880	13.052100	2.035030	29.367239	1.084780	0.012082	0.116895	0.032556	0.002371	0.001338	0.087580	0.000398	0.008460	0.004657	0.001292	0.012916
29-Aug-2031	8.826217	8.406180	13.063100	2.033130	29.362661	1.086640	0.012095	0.117039	0.032436	0.002372	0.001333	0.087347	0.000399	0.008449	0.004658	0.001292	0.012916
30-Aug-2031	9.048163	8.483020	13.194000	2.048830	29.619183	1.098760	0.012220	0.118272	0.032585	0.002395	0.001340	0.087844	0.000403	0.008511	0.004702	0.001303	0.013032
31-Aug-2031	9.986817	8.597720	13.383500	2.073950	30.009033	1.115670	0.012399	0.120023	0.032880	0.002428	0.001353	0.088738	0.000409	0.008611	0.004767	0.001321	0.013205
1-Sep-2031	10.276467	8.590960	13.376400	2.072080	29.984453	1.115340	0.012392	0.119961	0.032787	0.002426	0.001350	0.088574	0.000409	0.008597	0.004763	0.001319	0.013194
2-Sep-2031	10.333000	8.699570	13.559300	2.094520	30.348060	1.132080	0.012567	0.121679	0.033041	0.002458	0.001361	0.089330	0.000415	0.008689	0.004825	0.001336	0.013358
3-Sep-2031	8.767283	8.614390	13.439700	2.070230	30.035339	1.123560	0.012462	0.120686	0.032573	0.002436	0.001341	0.088102	0.000411	0.008588	0.004779	0.001323	0.013225
4-Sep-2031	8.018070	8.678610	13.547700	2.083940	30.252154	1.133360	0.012564	0.121690	0.032709	0.002454	0.001347	0.088556	0.000415	0.008642	0.004816	0.001332	0.013322
5-Sep-2031	6.561943	8.548170	13.352200	2.050540	29.788904	1.117880	0.012386	0.119977	0.032116	0.002418	0.001323	0.087013	0.000409	0.008501	0.004744	0.001312	0.013120
6-Sep-2031	6.645330	8.597540	13.436900	2.060470	29.953073	1.125780	0.012467	0.120778	0.032204	0.002433	0.001327	0.087318	0.000412	0.008540	0.004773	0.001319	0.013194
7-Sep-2031	7.080827	8.622600	13.481900	2.065040	30.034467	1.130150	0.012511	0.121212	0.032224	0.002441	0.001328	0.087422	0.000413	0.008558	0.004787	0.001323	0.013231
8-Sep-2031	6.586343	8.564570	13.399500	2.048790	29.822649	1.124170	0.012438	0.120521	0.031912	0.002426	0.001315	0.086619	0.000411	0.008490	0.004756	0.001314	0.013141
9-Sep-2031	6.101293	8.626230	13.503800	2.061430	30.028665	1.133760	0.012537	0.121503	0.032052	0.002444	0.001320	0.087046	0.000414	0.008542	0.004791	0.001323	0.013234
10-Sep-2031	5.318897	8.617140	13.496900	2.057260	29.988795	1.133980	0.012534	0.121484	0.031929	0.002442	0.001315	0.086756	0.000414	0.008524	0.004787	0.001322	0.013219
11-Sep-2031	4.294990	8.573120	13.435200	2.044730	29.827279	1.129590	0.012479	0.120971	0.031684	0.002431	0.001305	0.086126	0.000412	0.008472	0.004764	0.001315	0.013150
12-Sep-2031	3.807647	8.585220	13.460400	2.045860	29.862146	1.132380	0.012505	0.121235	0.031658	0.002435	0.001304	0.086084	0.000413	0.008477	0.004772	0.001317	0.013167
13-Sep-2031	3.379067	8.640850	13.555100	2.057000	30.046928	1.141180	0.012596	0.122133	0.031788	0.002451	0.001309	0.086459	0.000416	0.008523	0.004804	0.001325	0.013251
14-Sep-2031	2.677507	8.671720	13.609600	2.062640	30.147236	1.146420	0.012650	0.122661	0.031826	0.002461	0.001310	0.086591	0.000418	0.008547	0.004822	0.001330	0.013298
15-Sep-2031	2.326230	8.653280	13.589000	2.055840	30.073189	1.145600	0.012634	0.122527	0.031669	0.002456	0.001303	0.086183	0.000418	0.008520	0.004813	0.001327	0.013268
16-Sep-2031	2.586330	8.775260	13.794200	2.080800	30.480559	1.164410	0.012831	0.124464	0.031974	0.002492	0.001315	0.087032	0.000424	0.008625	0.004883	0.001345	0.013453
17-Sep-2031	2.638213	8.770020	13.792400	2.077760	30.454956	1.164960	0.012832	0.124487	0.031881	0.002491	0.001311	0.086807	0.000424	0.008612	0.004881	0.001344	0.013444
18-Sep-2031	2.022847	8.716980	13.724800	2.060510	30.251479	1.161010	0.012776	0.123979	0.031523	0.002478	0.001295	0.085861	0.000422	0.008543	0.004854	0.001336	0.013360
19-Sep-2031	1.783040	8.688870	13.690100	2.051020	30.142209	1.159140	0.012748	0.123727	0.031324	0.002471	0.001286	0.085331	0.000422	0.008505	0.004840	0.001332	0.013316
20-Sep-2031	1.792177	8.821480	13.912900	2.078120	30.584934	1.179540	0.012962	0.125832	0.031663	0.002510	0.001299	0.086261	0.000429	0.008621	0.004916	0.001352	0.013518
21-Sep-2031	1.655973	8.847800	13.958800	2.083140	30.671327	1.183900	0.013006	0.126272	0.031707	0.002518	0.001300	0.086403	0.000430	0.008641	0.004931	0.001356	0.013557
22-Sep-2031	1.811887	8.849460	13.968000	2.081640	30.669295	1.185400	0.013018	0.126397	0.031642	0.002519	0.001297	0.086244	0.000431	0.008635	0.004933	0.001356	0.013559
23-Sep-2031	1.637800	8.851210	13.979400	2.079520	30.664935	1.187320	0.013032	0.126554	0.031557	0.002520	0.001293	0.086032	0.000431	0.008628	0.004936	0.001356	0.013560
24-Sep-2031	1.546063	8.930260	14.113200	2.095820	30.929446	1.199670	0.013161	0.127822	0.031758	0.002544	0.001301	0.086597	0.000435	0.008696	0.004981	0.001368	0.013680
25-Sep-2031	1.706677	8.975630	14.190300	2.104590	31.078850	1.206820	0.013235	0.128554	0.031845	0.002557	0.001304	0.086855	0.000438	0.008733	0.005007	0.001375	0.013748
26-Sep-2031	1.909677	9.017700	14.267000	2.111400	31.211942	1.214450	0.013311	0.129314	0.031894	0.002570	0.001305	0.086986	0.000440	0.008763	0.005032	0.001381	0.013812
27-Sep-2031	1.815893	9.010920	14.266400	2.106700	31.175658	1.215530	0.013315	0.129377	0.031770	0.002569	0.001299	0.086644	0.000441	0.008746	0.005030	0.001380	0.013800
28-Sep-2031	1.926657	8.999360	14.254200	2.102170	31.128138	1.215160	0.013307	0.129306	0.031668	0.002566	0.001295	0.086366	0.000440	0.008729	0.005025	0.001378	0.013782
29-Sep-2031	1.653003	9.041700	14.333900	2.108230	31.258816	1.223340	0.013387	0.130111	0.031693	0.002579	0.001294	0.086427	0.000443	0.008757	0.005051	0.001385	0.013845
30-Sep-2031	1.356420	9.101430	14.441000	2.118410	31.449883	1.233850	0.013493	0.131165	0.031780	0.002597	0.001297	0.086656	0.000447	0.008802	0.005086	0.001394	0.013935
1-Oct-2031	0.955690	9.110590	14.459500	2.119390	31.476791	1.235860	0.013512	0.131358	0.031771	0.002600	0.001296	0.086634	0.000447	0.008806	0.005092	0.001395	0.013949
2-Oct-2031	0.763029	9.149190	14.528600	2.126010	31.600437	1.242630	0.013580	0.132037	0.031828	0.002612	0.001298	0.086785	0.000450	0.008835	0.005115	0.001401	0.014007
3-Oct-2031	0.431752	9.115430	14.478400	2.117170	31.479735	1.238700	0.013534	0.131603	0.031677	0.002602	0.001291	0.086370	0.000448	0.008799	0.005097	0.001395	0.013955
4-Oct-2031	0.039066	9.046140	14.373000	2.099730	31.234900	1.230180	0.013438	0.130673	0.031389	0.002583	0.001279	0.085588	0.000445	0.008727	0.005059	0.001385	0.013848

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
5-Oct-2031	0.035264	8.964790	14.246500	2.080050	30.950727	1.219650	0.013321	0.129541	0.031079	0.002560	0.001266	0.084743	0.000441	0.008646	0.005013	0.001372	0.013723
6-Oct-2031	0.091683	8.946260	14.218600	2.075280	30.884814	1.217440	0.013295	0.129298	0.030998	0.002555	0.001263	0.084523	0.000440	0.008626	0.005003	0.001369	0.013695
7-Oct-2031	0.017628	8.999590	14.307700	2.086430	31.063895	1.225520	0.013381	0.130135	0.031139	0.002570	0.001268	0.084911	0.000443	0.008673	0.005034	0.001378	0.013776
8-Oct-2031	0.059119	8.941630	14.217800	2.072350	30.861187	1.218070	0.013298	0.129331	0.030915	0.002554	0.001259	0.084305	0.000440	0.008615	0.005002	0.001369	0.013687
9-Oct-2031	0.174373	8.891670	14.139400	2.060480	30.687557	1.211460	0.013225	0.128625	0.030732	0.002540	0.001252	0.083806	0.000438	0.008565	0.004974	0.001361	0.013610
10-Oct-2031	0.035716	8.798140	13.991700	2.038520	30.363581	1.198920	0.013087	0.127288	0.030398	0.002513	0.001238	0.082896	0.000433	0.008474	0.004922	0.001347	0.013467
11-Oct-2031	0.012302	8.794840	13.988300	2.037250	30.350111	1.198830	0.013085	0.127269	0.030367	0.002512	0.001237	0.082817	0.000433	0.008469	0.004920	0.001346	0.013461
12-Oct-2031	0.045750	8.796690	13.991900	2.037480	30.355678	1.199210	0.013088	0.127307	0.030366	0.002513	0.001236	0.082816	0.000433	0.008470	0.004921	0.001346	0.013464
13-Oct-2031	0.018478	8.709460	13.853700	2.017120	30.054022	1.187430	0.012959	0.126053	0.030059	0.002488	0.001224	0.081980	0.000429	0.008385	0.004873	0.001333	0.013331
14-Oct-2031	0.050911	8.689880	13.823400	2.012360	29.985529	1.184920	0.012931	0.125783	0.029983	0.002483	0.001221	0.081774	0.000428	0.008366	0.004862	0.001330	0.013301
15-Oct-2031	0.041624	8.662530	13.780000	2.006000	29.891045	1.181220	0.012891	0.125389	0.029887	0.002475	0.001217	0.081514	0.000427	0.008339	0.004847	0.001326	0.013259
16-Oct-2031	0.043130	8.661330	13.778100	2.005710	29.886855	1.181060	0.012889	0.125372	0.029883	0.002474	0.001217	0.081502	0.000427	0.008338	0.004846	0.001326	0.013257
17-Oct-2031	0.042871	8.666310	13.785900	2.006890	29.904149	1.181720	0.012896	0.125443	0.029901	0.002476	0.001217	0.081551	0.000427	0.008343	0.004849	0.001326	0.013264
18-Oct-2031	0.044916	8.742590	13.907300	2.024550	30.167344	1.192120	0.013010	0.126547	0.030164	0.002498	0.001228	0.082269	0.000431	0.008416	0.004891	0.001338	0.013381
19-Oct-2031	0.044569	8.773200	13.956100	2.031620	30.272892	1.196320	0.013056	0.126992	0.030268	0.002506	0.001232	0.082554	0.000432	0.008446	0.004908	0.001343	0.013428
20-Oct-2031	0.048633	8.795230	13.991200	2.036710	30.348861	1.199330	0.013088	0.127311	0.030344	0.002513	0.001236	0.082761	0.000433	0.008467	0.004921	0.001346	0.013462
21-Oct-2031	0.050473	8.845460	14.071100	2.048330	30.522137	1.206180	0.013163	0.128039	0.030517	0.002527	0.001243	0.083233	0.000436	0.008515	0.004949	0.001354	0.013539
22-Oct-2031	0.045353	8.889020	14.140500	2.058410	30.672415	1.212130	0.013228	0.128670	0.030667	0.002540	0.001249	0.083642	0.000438	0.008557	0.004973	0.001361	0.013605
23-Oct-2031	0.044921	8.930130	14.205900	2.067930	30.814270	1.217730	0.013289	0.129265	0.030809	0.002551	0.001254	0.084028	0.000440	0.008597	0.004996	0.001367	0.013668
24-Oct-2031	0.043625	8.974280	14.276100	2.078150	30.966599	1.223760	0.013355	0.129904	0.030961	0.002564	0.001261	0.084444	0.000442	0.008639	0.005021	0.001374	0.013736
25-Oct-2031	0.043083	9.022490	14.352800	2.089310	31.132936	1.230330	0.013427	0.130602	0.031127	0.002578	0.001267	0.084897	0.000445	0.008685	0.005048	0.001381	0.013810
26-Oct-2031	0.044137	9.079150	14.442900	2.102430	31.328444	1.238060	0.013511	0.131423	0.031323	0.002594	0.001275	0.085430	0.000447	0.008740	0.005080	0.001390	0.013896
27-Oct-2031	0.044528	9.145700	14.548800	2.117840	31.558078	1.247130	0.013610	0.132386	0.031552	0.002613	0.001285	0.086056	0.000451	0.008804	0.005117	0.001400	0.013998
28-Oct-2031	0.044760	9.188600	14.617000	2.127780	31.706132	1.252980	0.013674	0.133007	0.031700	0.002625	0.001291	0.086460	0.000453	0.008845	0.005141	0.001406	0.014064
29-Oct-2031	0.044905	9.249600	14.714100	2.141900	31.916595	1.261300	0.013765	0.133890	0.031911	0.002643	0.001299	0.087034	0.000456	0.008904	0.005175	0.001416	0.014157
30-Oct-2031	0.044950	9.295300	14.786800	2.152490	32.074318	1.267530	0.013833	0.134551	0.032068	0.002656	0.001306	0.087464	0.000458	0.008948	0.005201	0.001423	0.014227
31-Oct-2031	0.045071	9.340280	14.858300	2.162900	32.229501	1.273670	0.013900	0.135202	0.032224	0.002668	0.001312	0.087887	0.000460	0.008991	0.005226	0.001430	0.014296
1-Nov-2031	0.044990	9.379930	14.921400	2.172080	32.366311	1.279070	0.013959	0.135776	0.032360	0.002680	0.001318	0.088260	0.000462	0.009030	0.005248	0.001436	0.014357
2-Nov-2031	0.044954	9.426530	14.995500	2.182870	32.527104	1.285430	0.014028	0.136451	0.032521	0.002693	0.001324	0.088699	0.000464	0.009074	0.005274	0.001443	0.014428
3-Nov-2031	0.044998	9.476740	15.075400	2.194500	32.700371	1.292270	0.014103	0.137178	0.032694	0.002707	0.001331	0.089171	0.000467	0.009123	0.005302	0.001450	0.014505
4-Nov-2031	0.045038	9.527790	15.156600	2.206320	32.876517	1.299240	0.014179	0.137917	0.032870	0.002722	0.001338	0.089652	0.000469	0.009172	0.005331	0.001458	0.014583
5-Nov-2031	0.045187	9.574180	15.230400	2.217070	33.036622	1.305560	0.014248	0.138588	0.033030	0.002735	0.001345	0.090088	0.000472	0.009217	0.005357	0.001465	0.014654
6-Nov-2031	0.045295	9.628020	15.316100	2.229530	33.222370	1.312910	0.014328	0.139368	0.033216	0.002751	0.001352	0.090595	0.000474	0.009268	0.005387	0.001474	0.014736
7-Nov-2031	0.045340	9.678400	15.396200	2.241190	33.396185	1.319780	0.014403	0.140097	0.033390	0.002765	0.001360	0.091068	0.000477	0.009317	0.005415	0.001481	0.014813
8-Nov-2031	0.045429	9.732190	15.481800	2.253640	33.581768	1.327120	0.014483	0.140876	0.033575	0.002780	0.001367	0.091574	0.000480	0.009369	0.005445	0.001490	0.014896
9-Nov-2031	0.045480	9.784280	15.564700	2.265700	33.761500	1.334230	0.014561	0.141631	0.033754	0.002795	0.001374	0.092063	0.000482	0.009419	0.005474	0.001498	0.014976
10-Nov-2031	0.045551	9.837800	15.649900	2.278090	33.946161	1.341530	0.014640	0.142406	0.033939	0.002811	0.001382	0.092566	0.000485	0.009470	0.005504	0.001506	0.015057
11-Nov-2031	0.045609	9.891250	15.734900	2.290460	34.130566	1.348820	0.014720	0.143180	0.034123	0.002826	0.001389	0.093069	0.000487	0.009522	0.005534	0.001514	0.015139
12-Nov-2031	0.045672	9.946130	15.822200	2.303160	34.319899	1.356310	0.014801	0.143974	0.034312	0.002842	0.001397	0.093585	0.000490	0.009574	0.005565	0.001522	0.015223
13-Nov-2031	0.045734	10.009000	15.922200	2.317710	34.536803	1.364880	0.014895	0.144884	0.034529	0.002859	0.001406	0.094176	0.000493	0.009635	0.005600	0.001532	0.015319
14-Nov-2031	0.045819	10.072800	16.023800	2.332500	34.757017	1.373580	0.014990	0.145808	0.034749	0.002878	0.001415	0.094777	0.000496	0.009696	0.005636	0.001542	0.015417
15-Nov-2031	0.045825	10.136500	16.125000	2.347240	34.976775	1.382270	0.015085	0.146730	0.034969	0.002896	0.001424	0.095376	0.000499	0.009758	0.005671	0.001551	0.015515
16-Nov-2031	0.045774	10.212800	16.246500	2.364910	35.240061	1.392670	0.015198	0.147835	0.035232	0.002918	0.001435	0.096094	0.000503	0.009831	0.005714	0.001563	0.015631
17-Nov-2031	0.045713	10.271000	16.339000	2.378380	35.440856	1.400610	0.015285	0.148677	0.035433	0.002934	0.001443	0.096641	0.000506	0.009887	0.005747	0.001572	0.015720
18-Nov-2031	0.045716	10.356300	16.474700	2.398130	35.735180	1.412240	0.015412	0.149912	0.035727	0.002959	0.001455	0.097444	0.000510	0.009969	0.005794	0.001585	0.015851
19-Nov-2031	0.045699	10.421900	16.579100	2.413330	35.961577	1.421190	0.015509	0.150862	0.035953	0.002977	0.001464	0.098061	0.000513	0.010032	0.005831	0.001595	0.015951
20-Nov-2031	0.045684	10.457400	16.635600	2.421550	36.084071	1.426030	0.015562	0.151375	0.036076	0.002988	0.001469	0.098395	0.000515	0.010067	0.005851	0.001601	0.016006
21-Nov-2031	0.045680	10.497300	16.699100	2.430790	36.221751	1.431480	0.015622	0.151953	0.036213	0.002999	0.001474	0.098771	0.000517	0.010105	0.005873	0.001607	0.016067
22-Nov-2031	0.045680	10.565100	16.806900	2.446480	36.455659	1.440710	0.015723	0.152934	0.036447	0.003018	0.001484	0.099408	0.000521	0.010170	0.005911	0.001617	0.016171
23-Nov-2031	0.045678	10.622200	16.897700	2.459710	36.652719	1.448500	0.015808	0.153761	0.036644	0.003035	0.001492	0.099945	0.000523	0.010225	0.005943	0.001626	0.016258
24-Nov-2031	0.045678	10.683500	16.995200	2.473900	36.864220	1.456860	0.015899	0.154648	0.036855	0.003052	0.001501	0.100522	0.000526	0.010284	0.005977	0.001635	0.016352

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
25-Nov-2031	0.045677	10.719900	17.053100	2.482330	36.989825	1.461820	0.015953	0.155175	0.036981	0.003063	0.001506	0.100865	0.000528	0.010319	0.005998	0.001641	0.016407
26-Nov-2031	0.045675	10.718000	17.050100	2.481890	36.983269	1.461570	0.015950	0.155148	0.036975	0.003062	0.001505	0.100847	0.000528	0.010317	0.005997	0.001640	0.016405
27-Nov-2031	0.045675	10.773900	17.139000	2.494830	37.176138	1.469190	0.016033	0.155957	0.037167	0.003078	0.001513	0.101373	0.000531	0.010371	0.006028	0.001649	0.016490
28-Nov-2031	0.045676	10.831100	17.230100	2.508090	37.373571	1.477000	0.016118	0.156786	0.037365	0.003094	0.001521	0.101912	0.000534	0.010426	0.006060	0.001658	0.016578
29-Nov-2031	0.045677	10.889600	17.323200	2.521640	37.575445	1.484970	0.016206	0.157632	0.037567	0.003111	0.001530	0.102462	0.000537	0.010483	0.006093	0.001667	0.016667
30-Nov-2031	0.045678	10.949900	17.419100	2.535600	37.783501	1.493200	0.016295	0.158505	0.037775	0.003128	0.001538	0.103029	0.000540	0.010541	0.006126	0.001676	0.016760
1-Dec-2031	0.045681	11.020500	17.531400	2.551940	38.027077	1.502820	0.016400	0.159527	0.038018	0.003148	0.001548	0.103693	0.000543	0.010609	0.006166	0.001687	0.016868
2-Dec-2031	0.045678	11.066400	17.604400	2.562580	38.185505	1.509080	0.016469	0.160191	0.038177	0.003162	0.001554	0.104125	0.000545	0.010653	0.006192	0.001694	0.016938
3-Dec-2031	0.045680	11.137300	17.717100	2.578980	38.430078	1.518740	0.016574	0.161217	0.038421	0.003182	0.001564	0.104792	0.000549	0.010721	0.006231	0.001705	0.017046
4-Dec-2031	0.045677	11.180200	17.785400	2.588920	38.578132	1.524590	0.016638	0.161838	0.038569	0.003194	0.001570	0.105196	0.000551	0.010762	0.006255	0.001711	0.017112
5-Dec-2031	0.045678	11.263600	17.918100	2.608230	38.865900	1.535970	0.016762	0.163045	0.038857	0.003218	0.001582	0.105980	0.000555	0.010843	0.006302	0.001724	0.017240
6-Dec-2031	0.045676	11.286300	17.954200	2.613490	38.944243	1.539070	0.016796	0.163374	0.038935	0.003224	0.001585	0.106194	0.000556	0.010865	0.006315	0.001727	0.017274
7-Dec-2031	0.045676	11.353800	18.061600	2.629130	39.177196	1.548280	0.016896	0.164352	0.039168	0.003244	0.001595	0.106830	0.000559	0.010930	0.006352	0.001738	0.017378
8-Dec-2031	0.045676	11.412500	18.155000	2.642720	39.379733	1.556280	0.016984	0.165201	0.039371	0.003260	0.001603	0.107382	0.000562	0.010986	0.006385	0.001747	0.017468
9-Dec-2031	0.045675	11.472400	18.250200	2.656580	39.586379	1.564440	0.017073	0.166068	0.039577	0.003278	0.001611	0.107945	0.000565	0.011044	0.006419	0.001756	0.017559
10-Dec-2031	0.045675	11.534900	18.349700	2.671070	39.802112	1.572970	0.017166	0.166973	0.039793	0.003295	0.001620	0.108534	0.000568	0.011104	0.006454	0.001766	0.017655
11-Dec-2031	0.045675	11.597100	18.448700	2.685470	40.016724	1.581450	0.017258	0.167874	0.040007	0.003313	0.001629	0.109119	0.000571	0.011164	0.006489	0.001775	0.017750
12-Dec-2031	0.045675	11.658500	18.546200	2.699670	40.228516	1.589820	0.017350	0.168762	0.040219	0.003331	0.001638	0.109696	0.000574	0.011223	0.006523	0.001784	0.017844
13-Dec-2031	0.045675	11.726800	18.654900	2.715490	40.464207	1.599130	0.017451	0.169750	0.040455	0.003350	0.001647	0.110339	0.000578	0.011289	0.006561	0.001795	0.017949
14-Dec-2031	0.045675	11.790100	18.755600	2.730150	40.682637	1.607770	0.017546	0.170667	0.040673	0.003368	0.001656	0.110935	0.000581	0.011349	0.006596	0.001805	0.018046
15-Dec-2031	0.045675	11.863000	18.871500	2.747020	40.934139	1.617700	0.017654	0.171722	0.040924	0.003389	0.001666	0.111620	0.000584	0.011420	0.006637	0.001816	0.018157
16-Dec-2031	0.045675	11.902200	18.933900	2.756110	41.069454	1.623050	0.017712	0.172289	0.041060	0.003400	0.001672	0.111989	0.000586	0.011457	0.006659	0.001822	0.018217
17-Dec-2031	0.045675	11.958500	19.023500	2.769150	41.263734	1.630730	0.017796	0.173105	0.041254	0.003416	0.001680	0.112519	0.000589	0.011512	0.006691	0.001830	0.018303
18-Dec-2031	0.045675	12.027400	19.133200	2.785110	41.501501	1.640130	0.017899	0.174102	0.041492	0.003436	0.001689	0.113168	0.000593	0.011578	0.006729	0.001841	0.018409
19-Dec-2031	0.045675	12.099400	19.247600	2.801770	41.749891	1.649940	0.018006	0.175144	0.041740	0.003457	0.001700	0.113844	0.000596	0.011647	0.006769	0.001852	0.018519
20-Dec-2031	0.045675	12.151000	19.329700	2.813720	41.927946	1.656980	0.018083	0.175891	0.041918	0.003471	0.001707	0.114330	0.000599	0.011697	0.006798	0.001860	0.018598
21-Dec-2031	0.045675	12.204600	19.415000	2.826140	42.112931	1.664290	0.018162	0.176667	0.042103	0.003487	0.001714	0.114835	0.000601	0.011749	0.006828	0.001868	0.018680
22-Dec-2031	0.045675	12.270800	19.520300	2.841460	42.341320	1.673310	0.018261	0.177625	0.042331	0.003506	0.001724	0.115457	0.000605	0.011812	0.006865	0.001878	0.018781
23-Dec-2031	0.045675	12.355500	19.655000	2.861070	42.633570	1.684860	0.018387	0.178851	0.042624	0.003530	0.001735	0.116254	0.000609	0.011894	0.006913	0.001891	0.018911
24-Dec-2031	0.045675	12.397700	19.722100	2.870840	42.779176	1.690620	0.018450	0.179462	0.042769	0.003542	0.001741	0.116651	0.000611	0.011934	0.006936	0.001898	0.018975
25-Dec-2031	0.045675	12.453700	19.811200	2.883810	42.972418	1.698250	0.018533	0.180272	0.042962	0.003558	0.001749	0.117178	0.000614	0.011988	0.006968	0.001906	0.019061
26-Dec-2031	0.045675	12.528500	19.930300	2.901140	43.230559	1.708460	0.018644	0.181356	0.043220	0.003579	0.001760	0.117882	0.000617	0.012060	0.007010	0.001918	0.019176
27-Dec-2031	0.045675	12.612700	20.064300	2.920650	43.521149	1.719950	0.018770	0.182575	0.043511	0.003603	0.001772	0.118675	0.000621	0.012141	0.007057	0.001930	0.019305
28-Dec-2031	0.045675	12.660300	20.139900	2.931660	43.685345	1.726430	0.018841	0.183263	0.043675	0.003617	0.001778	0.119122	0.000624	0.012187	0.007083	0.001938	0.019377
29-Dec-2031	0.045675	12.721000	20.236500	2.945710	43.894771	1.734710	0.018931	0.184142	0.043884	0.003634	0.001787	0.119693	0.000627	0.012246	0.007117	0.001947	0.019470
30-Dec-2031	0.045675	12.805800	20.371400	2.965350	44.187394	1.746280	0.019057	0.185370	0.044177	0.003659	0.001799	0.120491	0.000631	0.012327	0.007165	0.001960	0.019600
31-Dec-2031	0.045675	12.911700	20.539800	2.989860	44.552758	1.760710	0.019215	0.186902	0.044542	0.003689	0.001814	0.121487	0.000636	0.012429	0.007224	0.001976	0.019762
1-Jan-2032	0.045675	12.928700	20.566900	2.993800	44.611432	1.763030	0.019240	0.187148	0.044601	0.003694	0.001816	0.121647	0.000637	0.012446	0.007233	0.001979	0.019788
2-Jan-2032	0.045675	12.998800	20.678400	3.010040	44.853348	1.772590	0.019344	0.188163	0.044843	0.003714	0.001826	0.122307	0.000640	0.012513	0.007273	0.001990	0.019895
3-Jan-2032	0.045675	13.098800	20.837400	3.033190	45.198380	1.786220	0.019493	0.189610	0.045188	0.003742	0.001840	0.123248	0.000645	0.012609	0.007329	0.002005	0.020049
4-Jan-2032	0.045675	13.158900	20.933000	3.047110	45.405772	1.794420	0.019583	0.190480	0.045395	0.003759	0.001848	0.123813	0.000648	0.012667	0.007362	0.002014	0.020141
5-Jan-2032	0.045675	13.224400	21.037400	3.062290	45.631837	1.803360	0.019680	0.191430	0.045621	0.003778	0.001858	0.124430	0.000652	0.012730	0.007399	0.002024	0.020241
6-Jan-2032	0.045675	13.292700	21.146000	3.078100	45.867488	1.812670	0.019782	0.192418	0.045857	0.003798	0.001867	0.125073	0.000655	0.012796	0.007437	0.002035	0.020345
7-Jan-2032	0.045675	13.360000	21.253000	3.093690	46.099735	1.821850	0.019882	0.193392	0.046089	0.003817	0.001877	0.125706	0.000658	0.012861	0.007475	0.002045	0.020448
8-Jan-2032	0.045675	13.430600	21.365300	3.110030	46.343312	1.831470	0.019987	0.194414	0.046332	0.003837	0.001886	0.126370	0.000662	0.012929	0.007514	0.002056	0.020556
9-Jan-2032	0.045675	13.495400	21.468400	3.125030	46.566887	1.840310	0.020083	0.195351	0.046556	0.003856	0.001896	0.126980	0.000665	0.012991	0.007551	0.002066	0.020656
10-Jan-2032	0.045675	13.563500	21.576800	3.140810	46.801915	1.849600	0.020185	0.196338	0.046791	0.003875	0.001905	0.127621	0.000668	0.013057	0.007589	0.002076	0.020760
11-Jan-2032	0.045675	13.632000	21.685700	3.156670	47.038271	1.858940	0.020287	0.197329	0.047027	0.003895	0.001915	0.128265	0.000672	0.013123	0.007627	0.002086	0.020865
12-Jan-2032	0.045675	13.699400	21.793000	3.172280	47.270851	1.868130	0.020387	0.198305	0.047260	0.003914	0.001924	0.128899	0.000675	0.013187	0.007665	0.002097	0.020968
13-Jan-2032	0.045675	13.764700	21.896900	3.187410	47.496210	1.877040	0.020484	0.199251	0.047485	0.003933	0.001933	0.129514	0.000678	0.013250	0.007701	0.002107	0.021068
14-Jan-2032	0.045675	13.829100	21.999300	3.202310	47.718375	1.885820	0.020580	0.200182	0.047707	0.003951	0.001942	0.130120	0.000681	0.013312	0.007737	0.002117	0.021166

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
15-Jan-2032	0.045675	13.905300	22.120500	3.219950	47.981288	1.896210	0.020693	0.201285	0.047970	0.003973	0.001953	0.130837	0.000685	0.013386	0.007780	0.002128	0.021283
16-Jan-2032	0.045675	13.979500	22.238400	3.237130	48.237313	1.906320	0.020804	0.202359	0.048226	0.003994	0.001964	0.131534	0.000689	0.013457	0.007821	0.002140	0.021396
17-Jan-2032	0.045675	14.044200	22.341500	3.252120	48.460598	1.915150	0.020900	0.203296	0.048449	0.004012	0.001973	0.132144	0.000692	0.013519	0.007858	0.002150	0.021496
18-Jan-2032	0.045675	14.130800	22.479200	3.272180	48.759445	1.926960	0.021029	0.204550	0.048748	0.004037	0.001985	0.132959	0.000696	0.013603	0.007906	0.002163	0.021628
19-Jan-2032	0.045675	14.169600	22.540900	3.281150	48.893267	1.932250	0.021087	0.205111	0.048882	0.004048	0.001990	0.133323	0.000698	0.013640	0.007928	0.002169	0.021687
20-Jan-2032	0.045675	14.231700	22.639700	3.295540	49.107589	1.940720	0.021179	0.206010	0.049096	0.004066	0.001999	0.133908	0.000701	0.013700	0.007963	0.002178	0.021783
21-Jan-2032	0.045675	14.302300	22.752100	3.311890	49.351206	1.950350	0.021284	0.207033	0.049340	0.004086	0.002009	0.134572	0.000705	0.013768	0.008002	0.002189	0.021891
22-Jan-2032	0.045675	14.376700	22.870400	3.329120	49.607936	1.960490	0.021395	0.208109	0.049596	0.004107	0.002019	0.135272	0.000708	0.013839	0.008044	0.002200	0.022005
23-Jan-2032	0.045675	14.450200	22.987400	3.346140	49.861554	1.970520	0.021504	0.209174	0.049850	0.004128	0.002030	0.135964	0.000712	0.013910	0.008085	0.002212	0.022117
24-Jan-2032	0.045675	14.523800	23.104400	3.363180	50.115504	1.980550	0.021614	0.210239	0.050104	0.004149	0.002040	0.136656	0.000716	0.013981	0.008126	0.002223	0.022230
25-Jan-2032	0.045675	14.598000	23.222500	3.380370	50.371570	1.990670	0.021724	0.211313	0.050360	0.004171	0.002050	0.137355	0.000719	0.014052	0.008167	0.002234	0.022343
26-Jan-2032	0.045675	14.673100	23.341900	3.397760	50.630706	2.000910	0.021836	0.212400	0.050619	0.004192	0.002061	0.138061	0.000723	0.014125	0.008209	0.002246	0.022458
27-Jan-2032	0.045675	14.745300	23.456800	3.414470	50.879802	2.010760	0.021943	0.213445	0.050868	0.004213	0.002071	0.138740	0.000727	0.014194	0.008250	0.002257	0.022569
28-Jan-2032	0.045675	14.814200	23.566400	3.430430	51.117568	2.020160	0.022046	0.214443	0.051106	0.004232	0.002081	0.139389	0.000730	0.014261	0.008288	0.002267	0.022674
29-Jan-2032	0.045675	14.885000	23.679000	3.446820	51.361850	2.029810	0.022151	0.215467	0.051350	0.004253	0.002091	0.140055	0.000733	0.014329	0.008328	0.002278	0.022783
30-Jan-2032	0.045675	14.961400	23.800600	3.464520	51.625509	2.040230	0.022265	0.216574	0.051614	0.004274	0.002102	0.140774	0.000737	0.014402	0.008371	0.002290	0.022899
31-Jan-2032	0.045675	15.039200	23.924200	3.482520	51.893900	2.050830	0.022381	0.217699	0.051882	0.004297	0.002112	0.141505	0.000741	0.014477	0.008414	0.002302	0.023018
1-Feb-2032	0.045675	15.147100	24.095900	3.507500	52.266194	2.065540	0.022541	0.219261	0.052254	0.004327	0.002128	0.142521	0.000746	0.014581	0.008475	0.002318	0.023184
2-Feb-2032	0.045675	15.266200	24.285300	3.535080	52.677161	2.081780	0.022719	0.220984	0.052665	0.004361	0.002144	0.143641	0.000752	0.014696	0.008541	0.002337	0.023366
3-Feb-2032	0.045675	15.424400	24.537000	3.571710	53.223029	2.103360	0.022954	0.223275	0.053210	0.004407	0.002167	0.145130	0.000760	0.014848	0.008630	0.002361	0.023608
4-Feb-2032	0.045675	15.558200	24.750000	3.602710	53.684785	2.121610	0.023153	0.225212	0.053672	0.004445	0.002185	0.146389	0.000767	0.014977	0.008705	0.002381	0.023813
5-Feb-2032	0.045675	15.683700	24.949500	3.631760	54.117787	2.138720	0.023340	0.227028	0.054105	0.004481	0.002203	0.147570	0.000773	0.015098	0.008775	0.002400	0.024005
6-Feb-2032	0.045675	15.806300	25.144600	3.660160	54.540870	2.155440	0.023522	0.228803	0.054528	0.004516	0.002220	0.148723	0.000779	0.015216	0.008843	0.002419	0.024193
7-Feb-2032	0.045675	15.926800	25.336300	3.688070	54.956692	2.171880	0.023702	0.230548	0.054944	0.004550	0.002237	0.149858	0.000785	0.015332	0.008911	0.002438	0.024377
8-Feb-2032	0.045675	16.058700	25.546100	3.718610	55.411810	2.189860	0.023898	0.232457	0.055399	0.004588	0.002256	0.151098	0.000791	0.015459	0.008985	0.002458	0.024579
9-Feb-2032	0.045675	15.878300	25.259000	3.676820	54.789260	2.165250	0.023629	0.229845	0.054776	0.004536	0.002230	0.149400	0.000782	0.015285	0.008884	0.002430	0.024303
10-Feb-2032	0.045675	16.188200	25.752100	3.748590	55.858629	2.207520	0.024091	0.234332	0.055846	0.004625	0.002274	0.152317	0.000798	0.015583	0.009057	0.002478	0.024777
11-Feb-2032	0.045675	16.461400	26.186700	3.811850	56.801314	2.244770	0.024497	0.238286	0.056788	0.004703	0.002312	0.154887	0.000811	0.015846	0.009210	0.002520	0.025195
12-Feb-2032	0.045675	16.748900	26.644100	3.878430	57.793378	2.283980	0.024925	0.242448	0.057780	0.004785	0.002353	0.157592	0.000825	0.016123	0.009371	0.002564	0.025635
13-Feb-2032	0.045675	17.059500	27.138200	3.950350	58.865113	2.326330	0.025387	0.246944	0.058851	0.004874	0.002396	0.160515	0.000841	0.016422	0.009545	0.002611	0.026111
14-Feb-2032	0.045675	17.356900	27.611300	4.019220	59.891327	2.366890	0.025830	0.251249	0.059877	0.004959	0.002438	0.163313	0.000855	0.016708	0.009711	0.002657	0.026566
15-Feb-2032	0.045675	17.576100	27.959900	4.069970	60.647658	2.396780	0.026156	0.254422	0.060633	0.005021	0.002469	0.165375	0.000866	0.016919	0.009834	0.002690	0.026901
16-Feb-2032	0.045675	17.748700	28.234600	4.109950	61.243278	2.420320	0.026413	0.256920	0.061229	0.005071	0.002493	0.167000	0.000874	0.017085	0.009930	0.002717	0.027166
17-Feb-2032	0.045675	17.914700	28.498600	4.148380	61.816035	2.442950	0.026660	0.259323	0.061801	0.005118	0.002516	0.168561	0.000883	0.017245	0.010023	0.002742	0.027420
18-Feb-2032	0.045675	18.098700	28.791400	4.191000	62.450992	2.468050	0.026934	0.261987	0.062436	0.005171	0.002542	0.170293	0.000892	0.017422	0.010126	0.002770	0.027701
19-Feb-2032	0.045675	18.306100	29.121200	4.239010	63.166575	2.496320	0.027242	0.264988	0.063152	0.005230	0.002571	0.172244	0.000902	0.017622	0.010242	0.002802	0.028019
20-Feb-2032	0.045675	18.518200	29.458600	4.288130	63.898465	2.525250	0.027558	0.268059	0.063883	0.005291	0.002601	0.174240	0.000912	0.017826	0.010361	0.002834	0.028343
21-Feb-2032	0.045675	18.711000	29.765300	4.332770	64.563714	2.551540	0.027845	0.270850	0.064549	0.005346	0.002628	0.176054	0.000922	0.018012	0.010469	0.002864	0.028638
22-Feb-2032	0.045675	18.887900	30.046800	4.373740	65.174148	2.575660	0.028108	0.273411	0.065159	0.005396	0.002653	0.177718	0.000931	0.018182	0.010568	0.002891	0.028909
23-Feb-2032	0.045675	19.070000	30.336500	4.415920	65.802549	2.600500	0.028379	0.276047	0.065787	0.005448	0.002679	0.179432	0.000940	0.018357	0.010670	0.002919	0.029188
24-Feb-2032	0.045675	19.254500	30.630000	4.458640	66.439166	2.625660	0.028654	0.278718	0.066424	0.005501	0.002705	0.181168	0.000949	0.018535	0.010773	0.002947	0.029470
25-Feb-2032	0.045675	19.440200	30.925300	4.501630	67.079892	2.650970	0.028930	0.281405	0.067064	0.005554	0.002731	0.182915	0.000958	0.018714	0.010877	0.002975	0.029754
26-Feb-2032	0.045675	19.627800	31.223800	4.545070	67.727215	2.676560	0.029209	0.284121	0.067711	0.005608	0.002757	0.184680	0.000967	0.018894	0.010982	0.003004	0.030042
27-Feb-2032	0.045675	19.818600	31.527400	4.589260	68.385617	2.702580	0.029493	0.286883	0.068370	0.005662	0.002784	0.186476	0.000976	0.019078	0.011088	0.003033	0.030334
28-Feb-2032	0.045675	20.011300	31.833900	4.633880	69.050534	2.728860	0.029780	0.289672	0.069034	0.005717	0.002811	0.188289	0.000986	0.019263	0.011196	0.003063	0.030629
29-Feb-2032	0.045675	20.203800	32.140000	4.678440	69.714705	2.755100	0.030066	0.292458	0.069698	0.005772	0.002838	0.190100	0.000995	0.019449	0.011304	0.003092	0.030923
1-Mar-2032	0.045675	20.392800	32.440800	4.722230	70.366965	2.780890	0.030348	0.295195	0.070351	0.005826	0.002864	0.191879	0.001005	0.019631	0.011410	0.003121	0.031213
2-Mar-2032	0.045675	16.607700	26.419500	3.845740	57.306184	2.264730	0.024715	0.240405	0.057293	0.004745	0.002333	0.156264	0.000818	0.015987	0.009292	0.002542	0.025419
3-Mar-2032	0.045675	16.694600	26.557600	3.865850	57.605987	2.276570	0.024844	0.241661	0.057592	0.004770	0.002345	0.157081	0.000823	0.016071	0.009340	0.002555	0.025552
4-Mar-2032	0.045675	16.788000	26.706300	3.887490	57.928320	2.289310	0.024983	0.243014	0.057915	0.004796	0.002358	0.157961	0.000827	0.016161	0.009393	0.002570	0.025695
5-Mar-2032	0.045675	16.886200	26.862500	3.910230	58.267169	2.302710	0.025129	0.244436	0.058254	0.004824	0.002372	0.158885	0.000832	0.016255	0.009448	0.002585	0.025846

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Mar-2032	0.045675	16.988700	27.025500	3.933960	58.620831	2.316680	0.025282	0.245919	0.058607	0.004854	0.002386	0.159849	0.000837	0.016354	0.009505	0.002600	0.026002
7-Mar-2032	0.045675	17.096000	27.196200	3.958800	58.991050	2.331310	0.025442	0.247472	0.058977	0.004884	0.002401	0.160858	0.000842	0.016457	0.009565	0.002617	0.026167
8-Mar-2032	0.045675	17.209000	27.375900	3.984960	59.380938	2.346710	0.025610	0.249107	0.059367	0.004916	0.002417	0.161921	0.000848	0.016566	0.009628	0.002634	0.026339
9-Mar-2032	0.045675	17.327600	27.564700	4.012440	59.790245	2.362900	0.025786	0.250825	0.059776	0.004950	0.002434	0.163038	0.000854	0.016680	0.009695	0.002652	0.026521
10-Mar-2032	0.045675	17.451800	27.762200	4.041190	60.218765	2.379830	0.025971	0.252622	0.060205	0.004986	0.002451	0.164206	0.000860	0.016800	0.009764	0.002671	0.026711
11-Mar-2032	0.045675	17.581600	27.968700	4.071250	60.666663	2.397530	0.026164	0.254501	0.060652	0.005023	0.002470	0.165427	0.000866	0.016925	0.009837	0.002691	0.026910
12-Mar-2032	0.045675	17.715400	28.181500	4.102230	61.128337	2.415770	0.026363	0.256438	0.061114	0.005061	0.002488	0.166686	0.000873	0.017053	0.009912	0.002711	0.027115
13-Mar-2032	0.045675	17.850500	28.396500	4.133520	61.594534	2.434200	0.026564	0.258394	0.061580	0.005100	0.002507	0.167958	0.000880	0.017183	0.009987	0.002732	0.027321
14-Mar-2032	0.045675	17.986000	28.612000	4.164890	62.062059	2.452670	0.026766	0.260355	0.062047	0.005138	0.002526	0.169232	0.000886	0.017314	0.010063	0.002753	0.027529
15-Mar-2032	0.045675	18.218000	28.981100	4.218620	62.862623	2.484320	0.027111	0.263714	0.062848	0.005205	0.002559	0.171416	0.000898	0.017537	0.010193	0.002788	0.027884
16-Mar-2032	0.045675	18.414400	29.293600	4.264100	63.540321	2.511100	0.027404	0.266557	0.063525	0.005261	0.002587	0.173264	0.000907	0.017726	0.010303	0.002818	0.028184
17-Mar-2032	0.045675	18.617600	29.616900	4.311160	64.241504	2.538810	0.027706	0.269499	0.064227	0.005319	0.002615	0.175176	0.000917	0.017922	0.010416	0.002850	0.028496
18-Mar-2032	0.045675	18.828900	29.952800	4.360070	64.970532	2.567610	0.028020	0.272556	0.064955	0.005379	0.002645	0.177163	0.000928	0.018125	0.010535	0.002882	0.028819
19-Mar-2032	0.045675	19.046700	30.299500	4.410520	65.722131	2.597320	0.028345	0.275710	0.065707	0.005442	0.002675	0.179213	0.000938	0.018335	0.010657	0.002915	0.029152
20-Mar-2032	0.045675	19.270600	30.655600	4.462370	66.494728	2.627860	0.028678	0.278951	0.066479	0.005505	0.002707	0.181320	0.000949	0.018550	0.010782	0.002949	0.029495
21-Mar-2032	0.045675	19.403500	30.866900	4.493130	66.953249	2.645970	0.028875	0.280874	0.066937	0.005543	0.002725	0.182569	0.000956	0.018678	0.010856	0.002970	0.029698
22-Mar-2032	0.045675	19.622700	31.215700	4.543900	67.709662	2.675870	0.029202	0.284047	0.067694	0.005606	0.002756	0.184632	0.000967	0.018889	0.010979	0.003003	0.030034
23-Mar-2032	0.045675	19.847200	31.572800	4.595870	68.484251	2.706480	0.029536	0.287297	0.068468	0.005670	0.002788	0.186744	0.000978	0.019105	0.011104	0.003038	0.030377
24-Mar-2032	0.045675	20.077200	31.938700	4.649140	69.277927	2.737850	0.029878	0.290627	0.069262	0.005736	0.002820	0.188909	0.000989	0.019327	0.011233	0.003073	0.030729
25-Mar-2032	0.045675	20.312900	32.313700	4.703720	70.091230	2.769990	0.030229	0.294039	0.070075	0.005803	0.002853	0.191127	0.001001	0.019554	0.011365	0.003109	0.031090
26-Mar-2032	0.045675	20.554200	32.697400	4.759580	70.923788	2.802880	0.030588	0.297531	0.070907	0.005872	0.002887	0.193396	0.001013	0.019786	0.011500	0.003146	0.031459
27-Mar-2032	0.045675	20.801800	33.091400	4.816940	71.778254	2.836660	0.030956	0.301116	0.071761	0.005943	0.002922	0.195727	0.001025	0.020024	0.011638	0.003184	0.031839
28-Mar-2032	0.045675	21.055500	33.494900	4.875670	72.653593	2.871250	0.031334	0.304787	0.072636	0.006015	0.002957	0.198114	0.001037	0.020269	0.011780	0.003223	0.032227
29-Mar-2032	0.045675	21.315700	33.909000	4.935940	73.551504	2.906740	0.031721	0.308555	0.073534	0.006090	0.002994	0.200562	0.001050	0.020519	0.011926	0.003263	0.032625
30-Mar-2032	0.045675	21.587900	34.342000	4.998970	74.490745	2.943860	0.032126	0.312495	0.074473	0.006168	0.003032	0.203124	0.001064	0.020781	0.012078	0.003304	0.033042
31-Mar-2032	0.045675	21.871000	34.792200	5.064510	75.467539	2.982450	0.032547	0.316592	0.075450	0.006248	0.003072	0.205786	0.001078	0.021054	0.012237	0.003347	0.033475
1-Apr-2032	0.045675	22.157000	35.247300	5.130750	76.454458	3.021460	0.032973	0.320733	0.076437	0.006330	0.003112	0.208478	0.001092	0.021329	0.012397	0.003391	0.033913
2-Apr-2032	0.045675	22.339000	35.536800	5.172900	77.082485	3.046280	0.033244	0.323367	0.077064	0.006382	0.003138	0.210191	0.001101	0.021504	0.012499	0.003419	0.034191
3-Apr-2032	0.045675	22.413900	35.655900	5.190230	77.340875	3.056490	0.033355	0.324451	0.077323	0.006404	0.003148	0.210895	0.001104	0.021576	0.012540	0.003431	0.034306
4-Apr-2032	0.045675	22.456200	35.723200	5.200030	77.486855	3.062260	0.033418	0.325064	0.077469	0.006416	0.003154	0.211293	0.001106	0.021617	0.012564	0.003437	0.034371
5-Apr-2032	0.045675	22.486400	35.771300	5.207030	77.591090	3.066380	0.033463	0.325501	0.077573	0.006424	0.003158	0.211578	0.001108	0.021646	0.012581	0.003442	0.034417
6-Apr-2032	0.045675	22.510300	35.809300	5.212560	77.673541	3.069640	0.033499	0.325847	0.077655	0.006431	0.003162	0.211802	0.001109	0.021669	0.012594	0.003445	0.034454
7-Apr-2032	0.045675	22.529700	35.840200	5.217050	77.740473	3.072280	0.033528	0.326128	0.077722	0.006437	0.003165	0.211985	0.001110	0.021688	0.012605	0.003448	0.034483
8-Apr-2032	0.045675	22.545300	35.865000	5.220660	77.794292	3.074410	0.033551	0.326353	0.077776	0.006441	0.003167	0.212132	0.001111	0.021703	0.012614	0.003451	0.034507
9-Apr-2032	0.045675	22.557500	35.884300	5.223480	77.836368	3.076070	0.033569	0.326529	0.077818	0.006445	0.003168	0.212246	0.001111	0.021714	0.012621	0.003453	0.034526
10-Apr-2032	0.045675	22.566500	35.898700	5.225570	77.867448	3.077300	0.033583	0.326660	0.077849	0.006447	0.003170	0.212331	0.001112	0.021723	0.012626	0.003454	0.034540
11-Apr-2032	0.045675	22.572600	35.908400	5.226980	77.888486	3.078130	0.033592	0.326749	0.077870	0.006449	0.003171	0.212388	0.001112	0.021729	0.012629	0.003455	0.034549
12-Apr-2032	0.045675	22.576100	35.914000	5.227800	77.900602	3.078610	0.033597	0.326799	0.077882	0.006450	0.003171	0.212421	0.001112	0.021732	0.012631	0.003455	0.034554
13-Apr-2032	0.045675	22.577800	35.916700	5.228190	77.906453	3.078840	0.033599	0.326824	0.077888	0.006450	0.003171	0.212437	0.001112	0.021734	0.012632	0.003456	0.034557
14-Apr-2032	0.045675	22.578500	35.917800	5.228360	77.908901	3.078940	0.033600	0.326834	0.077891	0.006451	0.003171	0.212444	0.001112	0.021735	0.012633	0.003456	0.034558
15-Apr-2032	0.045675	22.578900	35.918400	5.228440	77.910229	3.078990	0.033601	0.326840	0.077892	0.006451	0.003171	0.212448	0.001112	0.021735	0.012633	0.003456	0.034559
16-Apr-2032	0.045675	22.579300	35.919000	5.228530	77.911599	3.079040	0.033602	0.326845	0.077893	0.006451	0.003172	0.212451	0.001112	0.021735	0.012633	0.003456	0.034559
17-Apr-2032	0.045675	22.579800	35.919800	5.228650	77.913341	3.079110	0.033602	0.326853	0.077895	0.006451	0.003172	0.212456	0.001113	0.021736	0.012633	0.003456	0.034560
18-Apr-2032	0.045675	22.580500	35.921000	5.228820	77.915789	3.079210	0.033603	0.326863	0.077898	0.006451	0.003172	0.212463	0.001113	0.021737	0.012634	0.003456	0.034561
19-Apr-2032	0.045675	22.581400	35.922400	5.229030	77.918901	3.079340	0.033605	0.326876	0.077901	0.006451	0.003172	0.212472	0.001113	0.021738	0.012634	0.003456	0.034562
20-Apr-2032	0.045675	22.582500	35.924100	5.229260	77.922595	3.079480	0.033606	0.326891	0.077904	0.006452	0.003172	0.212481	0.001113	0.021738	0.012635	0.003456	0.034564
21-Apr-2032	0.045675	22.583500	35.925800	5.229510	77.926122	3.079620	0.033608	0.326907	0.077908	0.006452	0.003172	0.212491	0.001113	0.021740	0.012635	0.003457	0.034566
22-Apr-2032	0.045675	22.584700	35.927600	5.229770	77.930189	3.079780	0.033610	0.326923	0.077912	0.006452	0.003172	0.212502	0.001113	0.021741	0.012636	0.003457	0.034567
23-Apr-2032	0.045675	22.585800	35.929400	5.230050	77.934089	3.079940	0.033611	0.326940	0.077916	0.006453	0.003172	0.212513	0.001113	0.021742	0.012637	0.003457	0.034569
24-Apr-2032	0.045675	22.587100	35.931400	5.230340	77.938529	3.080110	0.033613	0.326958	0.077920	0.006453	0.003173	0.212525	0.001113	0.021743	0.012637	0.003457	0.034571
25-Apr-2032	0.045675	22.588500	35.933700	5.230660	77.943342	3.080300	0.033615	0.326978	0.077925	0.006453	0.003173	0.212538	0.001113	0.021744	0.012638	0.003457	0.034573

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
26-Apr-2032	0.045675	22.590000	35.936000	5.231010	77.948529	3.080500	0.033618	0.327000	0.077930	0.006454	0.003173	0.212552	0.001113	0.021746	0.012639	0.003458	0.034575
27-Apr-2032	0.045675	22.591500	35.938500	5.231360	77.953716	3.080710	0.033620	0.327022	0.077935	0.006454	0.003173	0.212566	0.001113	0.021747	0.012640	0.003458	0.034578
28-Apr-2032	0.045675	22.593000	35.940800	5.231700	77.958862	3.080910	0.033622	0.327043	0.077940	0.006455	0.003173	0.212580	0.001113	0.021749	0.012641	0.003458	0.034580
29-Apr-2032	0.045684	22.593800	35.942100	5.231880	77.961600	3.081020	0.033623	0.327055	0.077943	0.006455	0.003174	0.212587	0.001113	0.021749	0.012641	0.003458	0.034581
30-Apr-2032	0.045886	22.584200	35.926800	5.229660	77.928487	3.079710	0.033609	0.326916	0.077910	0.006452	0.003172	0.212497	0.001113	0.021740	0.012636	0.003457	0.034567
1-May-2032	0.047058	22.538300	35.853800	5.219040	77.770142	3.073460	0.033541	0.326252	0.077752	0.006439	0.003166	0.212066	0.001110	0.021696	0.012610	0.003450	0.034496
2-May-2032	0.052997	22.325400	35.515200	5.169750	77.035554	3.044430	0.033224	0.323171	0.077018	0.006378	0.003136	0.210063	0.001100	0.021491	0.012491	0.003417	0.034171
3-May-2032	0.061685	22.060200	35.093200	5.108330	76.120422	3.008260	0.032829	0.319331	0.076102	0.006302	0.003099	0.207567	0.001087	0.021236	0.012343	0.003376	0.033765
4-May-2032	0.070378	21.649500	34.439900	5.013220	74.703241	2.952250	0.032218	0.313386	0.074686	0.006185	0.003041	0.203703	0.001067	0.020840	0.012113	0.003314	0.033136
5-May-2032	0.078354	21.065900	33.511500	4.878080	72.689486	2.872660	0.031349	0.304938	0.072672	0.006018	0.002959	0.198211	0.001038	0.020279	0.011786	0.003224	0.032243
6-May-2032	0.090314	20.579400	32.737600	4.765430	71.010803	2.806330	0.030625	0.297896	0.070994	0.005879	0.002891	0.193634	0.001014	0.019810	0.011514	0.003150	0.031498
7-May-2032	0.099237	20.107600	31.987100	4.656190	69.382868	2.741990	0.029923	0.291067	0.069367	0.005745	0.002824	0.189195	0.000991	0.019356	0.011250	0.003078	0.030776
8-May-2032	0.103993	19.637200	31.238800	4.547250	67.759664	2.677840	0.029223	0.284257	0.067744	0.005610	0.002758	0.184769	0.000968	0.018903	0.010987	0.003006	0.030056
9-May-2032	0.106645	19.362900	30.802500	4.483740	66.813203	2.640440	0.028815	0.280287	0.066798	0.005532	0.002720	0.182188	0.000954	0.018639	0.010833	0.002964	0.029636
10-May-2032	0.162570	19.075500	30.345200	4.417180	65.821471	2.601250	0.028387	0.276126	0.065806	0.005450	0.002679	0.179484	0.000940	0.018363	0.010673	0.002920	0.029196
11-May-2032	0.171177	18.727100	29.791000	4.336500	64.619276	2.553740	0.027869	0.271083	0.064604	0.005350	0.002630	0.176205	0.000923	0.018027	0.010478	0.002866	0.028663
12-May-2032	0.176822	18.546200	29.503200	4.294620	63.995107	2.529070	0.027600	0.268465	0.063980	0.005299	0.002605	0.174504	0.000914	0.017853	0.010376	0.002839	0.028386
13-May-2032	0.190142	18.250300	29.032500	4.226090	62.974038	2.488720	0.027159	0.264181	0.062959	0.005214	0.002563	0.171719	0.000899	0.017568	0.010211	0.002793	0.027933
14-May-2032	0.201371	17.952400	28.558600	4.157120	61.946163	2.448090	0.026716	0.259869	0.061932	0.005129	0.002522	0.168916	0.000885	0.017281	0.010044	0.002748	0.027477
15-May-2032	0.220465	17.670800	28.110700	4.091910	60.974473	2.409700	0.026297	0.255793	0.060960	0.005048	0.002482	0.166267	0.000871	0.017010	0.009887	0.002705	0.027046
16-May-2032	0.225963	17.589400	27.981100	4.073050	60.693552	2.398590	0.026176	0.254614	0.060679	0.005025	0.002471	0.165501	0.000867	0.016932	0.009841	0.002692	0.026922
17-May-2032	0.238234	17.100000	27.202700	3.959740	59.004909	2.331860	0.025448	0.247531	0.058991	0.004885	0.002402	0.160896	0.000843	0.016461	0.009567	0.002617	0.026173
18-May-2032	0.246365	16.921800	26.919100	3.918460	58.389953	2.307560	0.025182	0.244951	0.058376	0.004834	0.002377	0.159219	0.000834	0.016289	0.009468	0.002590	0.025900
19-May-2032	0.290940	15.371300	24.452500	3.559420	53.039828	2.096120	0.022875	0.222506	0.053027	0.004391	0.002159	0.144630	0.000757	0.014797	0.008600	0.002353	0.023527
20-May-2032	0.295827	14.997400	23.857800	3.472840	51.749663	2.045130	0.022319	0.217094	0.051738	0.004285	0.002107	0.141112	0.000739	0.014437	0.008391	0.002295	0.022955
21-May-2032	0.301752	14.494600	23.058000	3.356420	50.014754	1.976570	0.021570	0.209816	0.050003	0.004141	0.002036	0.136382	0.000714	0.013953	0.008110	0.002219	0.022185
22-May-2032	0.304336	13.942500	22.179700	3.228570	48.109674	1.901280	0.020749	0.201824	0.048098	0.003983	0.001958	0.131187	0.000687	0.013421	0.007801	0.002134	0.021340
23-May-2032	0.321970	12.887100	20.500700	2.984180	44.467942	1.757360	0.019178	0.186547	0.044458	0.003682	0.001810	0.121256	0.000635	0.012405	0.007210	0.001972	0.019725
24-May-2032	0.345677	11.641200	18.518700	2.695670	40.168845	1.587460	0.017324	0.168511	0.040159	0.003326	0.001635	0.109533	0.000574	0.011206	0.006513	0.001782	0.017818
25-May-2032	0.365383	11.001500	17.501100	2.547540	37.961515	1.500230	0.016372	0.159252	0.037953	0.003143	0.001545	0.103515	0.000542	0.010590	0.006155	0.001684	0.016839
26-May-2032	0.383111	10.548900	16.781200	2.442740	36.399807	1.438510	0.015699	0.152701	0.036391	0.003014	0.001482	0.099256	0.000520	0.010155	0.005902	0.001615	0.016146
27-May-2032	0.400108	10.699600	17.020900	2.477640	36.919823	1.459060	0.015923	0.154882	0.036911	0.003057	0.001503	0.100674	0.000527	0.010300	0.005986	0.001638	0.016376
28-May-2032	0.413943	11.332100	18.027100	2.624110	39.102339	1.545320	0.016864	0.164038	0.039093	0.003238	0.001592	0.106625	0.000558	0.010909	0.006340	0.001734	0.017345
29-May-2032	0.442862	11.073900	17.616300	2.564310	38.211357	1.510100	0.016480	0.160300	0.038202	0.003164	0.001555	0.104196	0.000546	0.010660	0.006196	0.001695	0.016949
30-May-2032	0.453803	11.254100	17.902900	2.606030	38.833119	1.534670	0.016748	0.162908	0.038824	0.003215	0.001581	0.105891	0.000554	0.010833	0.006297	0.001723	0.017225
31-May-2032	0.482135	11.115700	17.682800	2.573980	38.355553	1.515800	0.016542	0.160905	0.038347	0.003176	0.001561	0.104589	0.000548	0.010700	0.006219	0.001701	0.017013
1-Jun-2032	0.757770	10.668900	16.972100	2.470530	36.813886	1.454880	0.015877	0.154437	0.036805	0.003048	0.001499	0.100385	0.000526	0.010270	0.005969	0.001633	0.016330
2-Jun-2032	0.802676	10.598300	16.859800	2.454190	36.570310	1.445250	0.015772	0.153416	0.036562	0.003028	0.001489	0.099721	0.000522	0.010202	0.005930	0.001622	0.016221
3-Jun-2032	0.824362	10.528100	16.748100	2.437930	36.328061	1.435680	0.015668	0.152399	0.036320	0.003008	0.001479	0.099060	0.000519	0.010135	0.005890	0.001611	0.016114
4-Jun-2032	0.850079	9.969720	15.859800	2.308620	34.401288	1.359530	0.014837	0.144316	0.034393	0.002848	0.001400	0.093806	0.000491	0.009597	0.005578	0.001526	0.015259
5-Jun-2032	0.823639	9.685640	15.407900	2.242840	33.421058	1.320790	0.014414	0.140204	0.033413	0.002767	0.001360	0.091133	0.000477	0.009324	0.005419	0.001482	0.014825
6-Jun-2032	0.822958	9.418160	14.982400	2.180900	32.498092	1.284320	0.014016	0.136332	0.032490	0.002691	0.001323	0.088617	0.000464	0.009066	0.005269	0.001442	0.014415
7-Jun-2032	0.842234	9.081130	14.446300	2.102860	31.335159	1.238370	0.013514	0.131454	0.031325	0.002595	0.001276	0.085448	0.000447	0.008742	0.005081	0.001390	0.013899
8-Jun-2032	0.816483	9.291610	14.781100	2.151670	32.061727	1.267070	0.013827	0.134500	0.032049	0.002655	0.001305	0.087436	0.000458	0.008944	0.005199	0.001422	0.014221
9-Jun-2032	0.830329	9.157420	14.556100	2.124180	31.613451	1.246460	0.013609	0.132362	0.031728	0.002614	0.001292	0.086452	0.000451	0.008828	0.005122	0.001402	0.014019
10-Jun-2032	0.856646	9.103280	14.438100	2.121210	31.466033	1.232630	0.013478	0.131029	0.031947	0.002591	0.001302	0.086688	0.000446	0.008814	0.005086	0.001395	0.013946
11-Jun-2032	0.881796	8.985200	14.185100	2.113260	31.138449	1.203250	0.013199	0.128199	0.032378	0.002542	0.001320	0.087072	0.000437	0.008779	0.005010	0.001379	0.013785
12-Jun-2032	0.902193	8.922790	14.014500	2.120000	31.010367	1.179930	0.012988	0.126027	0.033067	0.002505	0.001350	0.088069	0.000430	0.008806	0.004964	0.001371	0.013711
13-Jun-2032	0.946865	9.044980	14.154500	2.164100	31.497079	1.185570	0.013087	0.126893	0.034210	0.002528	0.001397	0.090508	0.000433	0.008991	0.005024	0.001391	0.013912
14-Jun-2032	1.003024	9.015500	14.075700	2.166350	31.432733	1.175040	0.012993	0.125921	0.034515	0.002512	0.001409	0.090972	0.000430	0.009002	0.005003	0.001388	0.013875
15-Jun-2032	1.080268	9.040400	14.066200	2.186180	31.576568	1.168240	0.012948	0.125397	0.035193	0.002507	0.001439	0.092309	0.000429	0.009086	0.005009	0.001392	0.013924

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16-Jun-2032	1.168081	9.046780	14.042500	2.196930	31.636767	1.162170	0.012900	0.124852	0.035587	0.002502	0.001457	0.093155	0.000428	0.009133	0.005008	0.001394	0.013938
17-Jun-2032	1.326370	8.969350	13.881100	2.189370	31.412293	1.143800	0.012719	0.122999	0.035728	0.002473	0.001465	0.093331	0.000422	0.009105	0.004960	0.001382	0.013823
18-Jun-2032	1.535110	8.834920	13.625400	2.169440	30.994549	1.117090	0.012451	0.120313	0.035738	0.002428	0.001467	0.093087	0.000413	0.009028	0.004879	0.001362	0.013623
19-Jun-2032	1.732193	8.718910	13.406600	2.151410	30.630625	1.094600	0.012228	0.118067	0.035735	0.002392	0.001467	0.092896	0.000406	0.008959	0.004810	0.001345	0.013450
20-Jun-2032	1.935227	8.592460	13.180100	2.128390	30.220083	1.072610	0.012006	0.115867	0.035615	0.002355	0.001461	0.092422	0.000398	0.008869	0.004736	0.001326	0.013261
21-Jun-2032	2.206040	8.454800	12.937700	2.102490	29.769689	1.049340	0.011767	0.113500	0.035423	0.002313	0.001453	0.091753	0.000390	0.008766	0.004657	0.001306	0.013055
22-Jun-2032	2.555213	8.313080	12.690800	2.075250	29.303640	1.025770	0.011521	0.111063	0.035163	0.002270	0.001444	0.090963	0.000382	0.008656	0.004575	0.001284	0.012841
23-Jun-2032	2.894640	8.113340	12.345700	2.035880	28.642764	0.993287	0.011184	0.107729	0.034787	0.002211	0.001429	0.089819	0.000371	0.008498	0.004460	0.001254	0.012540
24-Jun-2032	3.173300	7.888100	11.953300	1.992280	27.900795	0.956123	0.010802	0.103961	0.034431	0.002145	0.001413	0.088641	0.000358	0.008325	0.004330	0.001220	0.012202
25-Jun-2032	3.367303	7.716240	11.652700	1.959110	27.335066	0.927652	0.010512	0.101091	0.034182	0.002095	0.001402	0.087807	0.000348	0.008194	0.004231	0.001194	0.011945
26-Jun-2032	3.585550	7.546180	11.359800	1.925130	26.770497	0.900300	0.010229	0.098296	0.033866	0.002047	0.001388	0.086847	0.000339	0.008059	0.004134	0.001169	0.011688
27-Jun-2032	3.763160	7.379330	11.065200	1.894170	26.226379	0.871805	0.009936	0.095390	0.033632	0.001995	0.001379	0.086013	0.000329	0.007935	0.004037	0.001144	0.011440
28-Jun-2032	3.873337	7.221180	10.777600	1.866690	25.718316	0.843328	0.009648	0.092528	0.033515	0.001947	0.001374	0.085495	0.000320	0.007828	0.003944	0.001121	0.011205
29-Jun-2032	3.938067	7.081880	10.524100	1.841920	25.268481	0.818495	0.009399	0.090043	0.033409	0.001908	0.001368	0.085134	0.000311	0.007734	0.003863	0.001100	0.010996
30-Jun-2032	5.099797	6.440970	9.454990	1.702360	23.093421	0.723416	0.008403	0.080277	0.031841	0.001741	0.001296	0.080987	0.000278	0.007185	0.003503	0.001003	0.010029
1-Jul-2032	5.101287	6.747000	9.954130	1.768670	24.130642	0.767940	0.008873	0.084843	0.032658	0.001836	0.001331	0.083694	0.000293	0.007464	0.003677	0.001048	0.010483
2-Jul-2032	5.408180	6.889430	10.155800	1.806580	24.642403	0.783117	0.009052	0.086521	0.033360	0.001883	0.001361	0.085890	0.000299	0.007633	0.003755	0.001069	0.010694
3-Jul-2032	6.698653	6.941840	10.217800	1.822010	24.836812	0.787012	0.009108	0.087031	0.033756	0.001906	0.001375	0.087223	0.000301	0.007714	0.003784	0.001077	0.010770
4-Jul-2032	8.518173	7.010040	10.330600	1.835140	25.061176	0.797516	0.009219	0.088125	0.033960	0.001929	0.001381	0.087829	0.000305	0.007778	0.003825	0.001087	0.010872
5-Jul-2032	8.083080	7.060200	10.416500	1.843890	25.222458	0.805819	0.009305	0.088974	0.034072	0.001947	0.001384	0.088199	0.000307	0.007823	0.003855	0.001095	0.010946
6-Jul-2032	8.655193	7.061560	10.419400	1.843070	25.222478	0.806500	0.009312	0.089047	0.034048	0.001952	0.001383	0.088305	0.000308	0.007825	0.003857	0.001094	0.010945
7-Jul-2032	9.593627	7.068130	10.436700	1.841850	25.233859	0.809012	0.009335	0.089286	0.033983	0.001957	0.001379	0.088265	0.000308	0.007825	0.003862	0.001095	0.010952
8-Jul-2032	9.493817	6.995280	10.326700	1.823430	24.976099	0.800323	0.009237	0.088343	0.033639	0.001939	0.001366	0.087473	0.000305	0.007746	0.003822	0.001084	0.010838
9-Jul-2032	9.894223	6.989320	10.323500	1.819970	24.946969	0.800855	0.009239	0.088374	0.033541	0.001939	0.001362	0.087283	0.000305	0.007734	0.003820	0.001083	0.010827
10-Jul-2032	11.467267	7.011780	10.364800	1.823010	25.015570	0.805208	0.009283	0.088814	0.033549	0.001948	0.001361	0.087402	0.000307	0.007750	0.003834	0.001086	0.010859
11-Jul-2032	12.353233	7.046910	10.418400	1.831720	25.139157	0.809655	0.009333	0.089297	0.033674	0.001960	0.001367	0.087832	0.000308	0.007786	0.003854	0.001091	0.010912
12-Jul-2032	13.107100	7.047140	10.420500	1.831450	25.138620	0.810030	0.009336	0.089331	0.033641	0.001960	0.001366	0.087803	0.000308	0.007783	0.003854	0.001091	0.010912
13-Jul-2032	14.085400	7.053580	10.437200	1.831330	25.154206	0.812389	0.009357	0.089554	0.033589	0.001965	0.001364	0.087766	0.000309	0.007783	0.003858	0.001092	0.010920
14-Jul-2032	14.577867	7.117880	10.548400	1.842310	25.359979	0.823092	0.009468	0.090656	0.033702	0.001987	0.001367	0.088179	0.000313	0.007836	0.003897	0.001102	0.011016
15-Jul-2032	13.331633	7.022940	10.423500	1.812720	25.001062	0.815376	0.009367	0.089726	0.033076	0.001963	0.001340	0.086628	0.000309	0.007714	0.003848	0.001087	0.010866
16-Jul-2032	13.038400	7.022030	10.434500	1.808540	24.981577	0.817842	0.009386	0.089935	0.032932	0.001966	0.001334	0.086331	0.000310	0.007700	0.003850	0.001086	0.010861
17-Jul-2032	13.137600	7.056730	10.500300	1.813020	25.086671	0.824831	0.009455	0.090632	0.032930	0.001979	0.001333	0.086428	0.000312	0.007722	0.003871	0.001091	0.010912
18-Jul-2032	13.618600	7.098100	10.570100	1.821130	25.223369	0.831369	0.009523	0.091309	0.033024	0.001993	0.001336	0.086739	0.000314	0.007758	0.003895	0.001097	0.010974
19-Jul-2032	12.111567	7.027950	10.480500	1.798600	24.955426	0.826153	0.009452	0.090660	0.032534	0.001975	0.001315	0.085509	0.000312	0.007665	0.003859	0.001086	0.010863
20-Jul-2032	11.110833	7.013840	10.466900	1.792920	24.896803	0.825999	0.009445	0.090606	0.032373	0.001973	0.001309	0.085164	0.000312	0.007641	0.003853	0.001084	0.010839
21-Jul-2032	10.432633	7.031620	10.501100	1.795400	24.951412	0.829698	0.009481	0.090970	0.032355	0.001979	0.001308	0.085198	0.000313	0.007650	0.003863	0.001087	0.010865
22-Jul-2032	10.526533	7.079040	10.580100	1.805380	25.110918	0.836842	0.009557	0.091716	0.032467	0.001994	0.001313	0.085576	0.000315	0.007691	0.003890	0.001094	0.010936
23-Jul-2032	10.703933	7.114450	10.639000	1.812840	25.230057	0.842213	0.009614	0.092275	0.032546	0.002005	0.001316	0.085860	0.000317	0.007722	0.003911	0.001099	0.010990
24-Jul-2032	10.642567	7.120690	10.658300	1.811730	25.241067	0.844931	0.009637	0.092523	0.032448	0.002009	0.001312	0.085698	0.000318	0.007716	0.003915	0.001100	0.010997
25-Jul-2032	10.482567	7.132710	10.688000	1.811470	25.270010	0.848707	0.009671	0.092877	0.032359	0.002014	0.001309	0.085557	0.000319	0.007715	0.003924	0.001101	0.011013
26-Jul-2032	10.574500	7.137060	10.706200	1.809250	25.271730	0.851558	0.009695	0.093131	0.032240	0.002018	0.001303	0.085321	0.000320	0.007706	0.003928	0.001102	0.011017
27-Jul-2032	11.179600	7.175270	10.772300	1.816430	25.396708	0.857900	0.009760	0.093780	0.032303	0.002030	0.001306	0.085565	0.000322	0.007736	0.003950	0.001107	0.011074
28-Jul-2032	11.916400	7.267730	10.920300	1.837400	25.713935	0.870783	0.009900	0.095143	0.032599	0.002058	0.001318	0.086450	0.000327	0.007824	0.004002	0.001121	0.011215
29-Jul-2032	12.423200	7.346740	11.050900	1.854050	25.979788	0.882624	0.010026	0.096377	0.032807	0.002082	0.001326	0.087097	0.000331	0.007895	0.004047	0.001133	0.011334
30-Jul-2032	13.261667	7.418990	11.175100	1.867760	26.216654	0.894381	0.010147	0.097581	0.032957	0.002105	0.001332	0.087549	0.000335	0.007955	0.004090	0.001144	0.011443
31-Jul-2032	13.622867	7.456740	11.250700	1.871720	26.327223	0.902619	0.010226	0.098382	0.032931	0.002117	0.001329	0.087491	0.000338	0.007975	0.004113	0.001150	0.011499
1-Aug-2032	13.966967	7.537540	11.388400	1.887590	26.594333	0.915624	0.010360	0.099706	0.033106	0.002142	0.001336	0.088019	0.000342	0.008043	0.004160	0.001162	0.011621
2-Aug-2032	14.106133	7.618950	11.524400	1.904490	26.867208	0.927903	0.010491	0.100992	0.033308	0.002166	0.001344	0.088628	0.000346	0.008114	0.004207	0.001174	0.011744
3-Aug-2032	13.955667	7.567130	11.466100	1.886070	26.661960	0.925501	0.010449	0.100629	0.032846	0.002154	0.001325	0.087501	0.000345	0.008034	0.004181	0.001166	0.011661
4-Aug-2032	14.041300	7.621640	11.560400	1.896480	26.840940	0.934465	0.010541	0.101544	0.032941	0.002171	0.001328	0.087833	0.000348	0.008078	0.004213	0.001174	0.011742
5-Aug-2032	13.428800	7.728470	11.737900	1.919120	27.200926	0.950564	0.010712	0.103215	0.033205	0.002203	0.001339	0.088666	0.000354	0.008171	0.004273	0.001190	0.011904

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Aug-2032	13.349600	7.763690	11.803400	1.924840	27.312425	0.957202	0.010777	0.103874	0.033206	0.002215	0.001340	0.088753	0.000356	0.008192	0.004294	0.001196	0.011955
7-Aug-2032	13.417433	7.888880	12.013600	1.950810	27.731969	0.976440	0.010979	0.105859	0.033507	0.002252	0.001352	0.089656	0.000363	0.008299	0.004366	0.001214	0.012144
8-Aug-2032	12.804633	7.896640	12.030800	1.951880	27.755752	0.978392	0.010997	0.106042	0.033436	0.002255	0.001350	0.089623	0.000363	0.008298	0.004370	0.001215	0.012154
9-Aug-2032	12.184800	7.908900	12.056500	1.953550	27.793242	0.981256	0.011024	0.106315	0.033371	0.002260	0.001349	0.089603	0.000364	0.008299	0.004377	0.001217	0.012171
10-Aug-2032	12.248633	8.024570	12.247700	1.978330	28.184114	0.998479	0.011207	0.108104	0.033672	0.002295	0.001362	0.090529	0.000370	0.008402	0.004443	0.001235	0.012346
11-Aug-2032	11.749000	8.001430	12.228100	1.968580	28.086183	0.998606	0.011196	0.108036	0.033384	0.002290	0.001350	0.089852	0.000370	0.008357	0.004432	0.001231	0.012307
12-Aug-2032	11.487800	8.050260	12.313700	1.977920	28.246574	1.006800	0.011280	0.108865	0.033445	0.002305	0.001353	0.090116	0.000373	0.008394	0.004460	0.001238	0.012380
13-Aug-2032	11.143400	8.126680	12.443900	1.993570	28.501841	1.018880	0.011405	0.110100	0.033584	0.002328	0.001359	0.090625	0.000377	0.008455	0.004504	0.001249	0.012495
14-Aug-2032	10.142867	8.077630	12.381500	1.978720	28.318211	1.015110	0.011354	0.109624	0.033207	0.002315	0.001345	0.089750	0.000376	0.008386	0.004477	0.001242	0.012416
15-Aug-2032	9.508940	8.090310	12.410800	1.979570	28.353373	1.018590	0.011385	0.109944	0.033121	0.002320	0.001343	0.089638	0.000377	0.008385	0.004485	0.001243	0.012433
16-Aug-2032	9.787853	8.188440	12.567700	2.002650	28.693447	1.032090	0.011531	0.111366	0.033410	0.002349	0.001356	0.090580	0.000381	0.008475	0.004540	0.001258	0.012582
17-Aug-2032	10.428400	8.329050	12.796300	2.034390	29.175256	1.052190	0.011746	0.113464	0.033795	0.002391	0.001373	0.091804	0.000389	0.008602	0.004618	0.001279	0.012795
18-Aug-2032	11.048133	8.414690	12.934800	2.054630	29.472447	1.064180	0.011875	0.114715	0.034014	0.002416	0.001385	0.092573	0.000393	0.008677	0.004666	0.001292	0.012924
19-Aug-2032	11.332700	8.381690	12.883300	2.046840	29.357967	1.059850	0.011827	0.114251	0.033886	0.002406	0.001380	0.092229	0.000391	0.008643	0.004647	0.001287	0.012873
20-Aug-2032	11.821000	8.486220	13.065500	2.066890	29.701544	1.077240	0.012005	0.116009	0.034033	0.002440	0.001386	0.092851	0.000397	0.008723	0.004708	0.001303	0.013029
21-Aug-2032	12.437667	8.604800	13.274700	2.088300	30.085805	1.097480	0.012210	0.118048	0.034209	0.002477	0.001392	0.093446	0.000404	0.008814	0.004777	0.001321	0.013206
22-Aug-2032	12.145433	8.614330	13.295000	2.089690	30.115325	1.099720	0.012230	0.118254	0.034151	0.002480	0.001391	0.093416	0.000405	0.008814	0.004782	0.001322	0.013219
23-Aug-2032	11.006867	8.669060	13.381400	2.103470	30.308732	1.106940	0.012309	0.119013	0.034299	0.002496	0.001400	0.093968	0.000408	0.008863	0.004812	0.001330	0.013301
24-Aug-2032	10.920900	8.700250	13.433700	2.110680	30.416304	1.111630	0.012358	0.119490	0.034338	0.002506	0.001403	0.094210	0.000409	0.008886	0.004829	0.001335	0.013348
25-Aug-2032	11.364767	8.704970	13.448300	2.110570	30.427637	1.113600	0.012374	0.119656	0.034229	0.002509	0.001400	0.094095	0.000410	0.008878	0.004832	0.001335	0.013352
26-Aug-2032	11.576100	8.718760	13.470800	2.114250	30.477225	1.115510	0.012394	0.119850	0.034238	0.002513	0.001402	0.094229	0.000411	0.008888	0.004839	0.001337	0.013372
27-Aug-2032	11.965200	8.805790	13.617400	2.133050	30.771958	1.128920	0.012533	0.121217	0.034380	0.002540	0.001410	0.094894	0.000415	0.008957	0.004888	0.001350	0.013501
28-Aug-2032	11.259000	8.831610	13.656100	2.140850	30.868550	1.131830	0.012566	0.121526	0.034439	0.002548	0.001415	0.095213	0.000417	0.008979	0.004901	0.001354	0.013540
29-Aug-2032	10.203867	8.809100	13.629000	2.133830	30.783435	1.130390	0.012544	0.121325	0.034229	0.002543	0.001408	0.094794	0.000416	0.008945	0.004889	0.001350	0.013503
30-Aug-2032	9.069510	8.751710	13.549100	2.117990	30.574903	1.124750	0.012474	0.120663	0.033864	0.002528	0.001394	0.093985	0.000414	0.008873	0.004857	0.001341	0.013411
31-Aug-2032	8.712283	8.754680	13.558800	2.117750	30.581330	1.126090	0.012485	0.120774	0.033788	0.002530	0.001392	0.093909	0.000414	0.008867	0.004859	0.001341	0.013414
1-Sep-2032	8.798610	8.839030	13.693800	2.137810	30.874559	1.137710	0.012610	0.121989	0.034015	0.002556	0.001404	0.094736	0.000418	0.008943	0.004906	0.001354	0.013540
2-Sep-2032	8.856177	8.873670	13.751600	2.145450	30.992517	1.142930	0.012664	0.122523	0.034077	0.002567	0.001407	0.095015	0.000420	0.008972	0.004925	0.001359	0.013592
3-Sep-2032	9.185363	8.888310	13.783100	2.146940	31.035209	1.146500	0.012697	0.122855	0.034008	0.002572	0.001405	0.094955	0.000421	0.008974	0.004934	0.001361	0.013612
4-Sep-2032	8.959590	9.027450	14.024900	2.173160	31.490616	1.169510	0.012932	0.125184	0.034255	0.002615	0.001414	0.095744	0.000429	0.009085	0.005015	0.001382	0.013821
5-Sep-2032	8.691800	9.038120	14.048400	2.174070	31.521006	1.172210	0.012957	0.125434	0.034201	0.002619	0.001413	0.095683	0.000430	0.009086	0.005022	0.001384	0.013836
6-Sep-2032	8.390730	9.043630	14.069400	2.171730	31.525128	1.175350	0.012982	0.125706	0.034093	0.002622	0.001407	0.095401	0.000431	0.009078	0.005027	0.001384	0.013843
7-Sep-2032	8.175253	9.018680	14.046600	2.161130	31.419177	1.175230	0.012969	0.125611	0.033842	0.002616	0.001396	0.094727	0.000430	0.009035	0.005016	0.001380	0.013802
8-Sep-2032	8.817040	9.101450	14.190100	2.176680	31.689889	1.188860	0.013109	0.126992	0.033985	0.002641	0.001401	0.095180	0.000435	0.009102	0.005064	0.001393	0.013927
9-Sep-2032	7.826263	9.015690	14.070100	2.152450	31.375967	1.180310	0.013004	0.126006	0.033502	0.002618	0.001381	0.093932	0.000432	0.008999	0.005018	0.001379	0.013793
10-Sep-2032	7.527917	9.002440	14.057800	2.147040	31.320603	1.180210	0.012996	0.125949	0.033350	0.002616	0.001375	0.093585	0.000431	0.008976	0.005012	0.001377	0.013771
11-Sep-2032	7.015303	9.044210	14.132800	2.154370	31.455088	1.187590	0.013070	0.126684	0.033386	0.002629	0.001376	0.093775	0.000434	0.009006	0.005036	0.001383	0.013833
12-Sep-2032	5.400310	9.005420	14.075100	2.144560	31.317832	1.183040	0.013018	0.126181	0.033195	0.002619	0.001369	0.093313	0.000432	0.008962	0.005015	0.001377	0.013772
13-Sep-2032	4.165020	9.005730	14.082000	2.142990	31.312141	1.184340	0.013027	0.126284	0.033111	0.002620	0.001366	0.093164	0.000433	0.008954	0.005016	0.001377	0.013771
14-Sep-2032	3.756970	8.998980	14.076900	2.139970	31.282850	1.184610	0.013025	0.126278	0.033017	0.002619	0.001362	0.092963	0.000433	0.008941	0.005013	0.001376	0.013759
15-Sep-2032	3.521033	9.038100	14.143300	2.147870	31.413064	1.190680	0.013089	0.126901	0.033095	0.002631	0.001365	0.093237	0.000435	0.008973	0.005035	0.001382	0.013818
16-Sep-2032	3.166337	9.154800	14.338000	2.172270	31.804943	1.208410	0.013274	0.128727	0.033382	0.002667	0.001377	0.094135	0.000441	0.009075	0.005102	0.001399	0.013994
17-Sep-2032	3.140863	9.185740	14.394700	2.177310	31.902955	1.214100	0.013331	0.129291	0.033401	0.002677	0.001378	0.094242	0.000443	0.009096	0.005120	0.001404	0.014040
18-Sep-2032	3.023440	9.182940	14.394800	2.175400	31.888098	1.214600	0.013333	0.129321	0.033342	0.002676	0.001375	0.094093	0.000443	0.009088	0.005120	0.001403	0.014035
19-Sep-2032	2.600577	9.315960	14.625500	2.200200	32.322376	1.236550	0.013558	0.131548	0.033601	0.002717	0.001384	0.094847	0.000450	0.009196	0.005197	0.001424	0.014235
20-Sep-2032	1.787977	9.326010	14.650200	2.199970	32.346523	1.239630	0.013585	0.131830	0.033544	0.002721	0.001381	0.094710	0.000451	0.009197	0.005204	0.001425	0.014250
21-Sep-2032	1.681710	9.440510	14.834700	2.226160	32.740280	1.255690	0.013757	0.133511	0.033881	0.002755	0.001396	0.095767	0.000457	0.009302	0.005269	0.001442	0.014423
22-Sep-2032	1.580470	9.411010	14.790700	2.218570	32.635363	1.252220	0.013718	0.133130	0.033749	0.002746	0.001390	0.095406	0.000456	0.009271	0.005252	0.001438	0.014377
23-Sep-2032	1.269273	9.399480	14.790500	2.210540	32.573505	1.254190	0.013726	0.133251	0.033525	0.002745	0.001380	0.094802	0.000456	0.009240	0.005249	0.001436	0.014357
24-Sep-2032	0.960310	9.295460	14.637200	2.183020	32.200440	1.242360	0.013589	0.131942	0.033042	0.002715	0.001359	0.093476	0.000452	0.009126	0.005193	0.001420	0.014197
25-Sep-2032	0.776960	9.369140	14.764300	2.197240	32.442977	1.254370	0.013712	0.133161	0.033178	0.002738	0.001364	0.093933	0.000456	0.009186	0.005235	0.001431	0.014307

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
26-Sep-2032	0.606858	9.338760	14.722900	2.188300	32.330303	1.251550	0.013677	0.132829	0.033000	0.002730	0.001357	0.093459	0.000455	0.009149	0.005219	0.001426	0.014260
27-Sep-2032	0.312917	9.368440	14.779400	2.192400	32.421298	1.257450	0.013734	0.133406	0.033001	0.002740	0.001356	0.093496	0.000457	0.009167	0.005237	0.001430	0.014304
28-Sep-2032	0.275908	9.463360	14.939100	2.211920	32.738696	1.272120	0.013887	0.134912	0.033219	0.002769	0.001365	0.094185	0.000462	0.009248	0.005292	0.001445	0.014447
29-Sep-2032	0.022405	9.463480	14.947500	2.209700	32.729854	1.273740	0.013899	0.135041	0.033126	0.002769	0.001361	0.093974	0.000462	0.009239	0.005293	0.001445	0.014446
30-Sep-2032	0.035634	9.373280	14.816200	2.185490	32.404928	1.263790	0.013782	0.133931	0.032682	0.002745	0.001342	0.092801	0.000458	0.009138	0.005244	0.001431	0.014306
1-Oct-2032	0.317628	9.429990	14.911200	2.197210	32.594796	1.272510	0.013873	0.134827	0.032814	0.002762	0.001348	0.093230	0.000461	0.009187	0.005277	0.001439	0.014391
2-Oct-2032	0.297537	9.545610	15.100800	2.222390	32.987190	1.289440	0.014052	0.136585	0.033130	0.002797	0.001361	0.094210	0.000467	0.009291	0.005343	0.001457	0.014566
3-Oct-2032	0.070303	9.517200	15.057700	2.215310	32.887095	1.285940	0.014013	0.136206	0.033010	0.002789	0.001356	0.093886	0.000466	0.009261	0.005327	0.001452	0.014522
4-Oct-2032	0.022477	9.491170	15.019900	2.208310	32.793272	1.283090	0.013979	0.135887	0.032879	0.002782	0.001350	0.093546	0.000465	0.009232	0.005313	0.001448	0.014482
5-Oct-2032	0.070747	9.500510	15.037900	2.209570	32.821783	1.285010	0.013998	0.136073	0.032871	0.002786	0.001350	0.093563	0.000466	0.009237	0.005319	0.001450	0.014495
6-Oct-2032	0.223193	9.423890	14.917700	2.191470	32.555927	1.274860	0.013886	0.134992	0.032593	0.002763	0.001339	0.092786	0.000462	0.009162	0.005276	0.001438	0.014378
7-Oct-2032	0.288077	9.421400	14.915900	2.190280	32.544809	1.274960	0.013886	0.134992	0.032557	0.002763	0.001337	0.092714	0.000462	0.009157	0.005275	0.001437	0.014374
8-Oct-2032	0.312685	9.411150	14.900700	2.187630	32.508302	1.273770	0.013872	0.134861	0.032508	0.002760	0.001335	0.092592	0.000461	0.009145	0.005269	0.001436	0.014358
9-Oct-2032	0.085831	9.313590	14.748100	2.164420	32.169116	1.260970	0.013731	0.133495	0.032145	0.002732	0.001320	0.091593	0.000457	0.009048	0.005215	0.001421	0.014208
10-Oct-2032	0.019122	9.300140	14.728800	2.160750	32.120418	1.259560	0.013714	0.133335	0.032070	0.002729	0.001317	0.091422	0.000456	0.009033	0.005208	0.001419	0.014187
11-Oct-2032	0.013917	9.230550	14.620000	2.144220	31.878581	1.250430	0.013614	0.132361	0.031808	0.002709	0.001307	0.090718	0.000453	0.008963	0.005169	0.001408	0.014080
12-Oct-2032	0.000255	9.215120	14.596400	2.140440	31.824487	1.248520	0.013592	0.132154	0.031740	0.002705	0.001304	0.090559	0.000452	0.008947	0.005160	0.001406	0.014056
13-Oct-2032	0.049611	9.153070	14.498300	2.125980	31.610001	1.240170	0.013501	0.131268	0.031521	0.002687	0.001295	0.089951	0.000449	0.008886	0.005126	0.001396	0.013961
14-Oct-2032	0.071187	9.152610	14.497700	2.125840	31.608276	1.240140	0.013501	0.131264	0.031516	0.002687	0.001295	0.089946	0.000449	0.008886	0.005125	0.001396	0.013960
15-Oct-2032	0.076301	9.170320	14.525900	2.129920	31.669300	1.242570	0.013527	0.131520	0.031574	0.002693	0.001297	0.090120	0.000450	0.008903	0.005135	0.001399	0.013987
16-Oct-2032	0.078987	9.174760	14.533000	2.130940	31.684587	1.243180	0.013534	0.131585	0.031589	0.002694	0.001298	0.090163	0.000450	0.008907	0.005138	0.001399	0.013994
17-Oct-2032	0.080842	9.251700	14.654700	2.148850	31.950459	1.253570	0.013647	0.132685	0.031857	0.002716	0.001309	0.090920	0.000454	0.008982	0.005181	0.001411	0.014112
18-Oct-2032	0.082915	9.293190	14.720500	2.158470	32.093675	1.259200	0.013708	0.133281	0.031999	0.002729	0.001315	0.091328	0.000456	0.009022	0.005204	0.001417	0.014175
19-Oct-2032	0.083445	9.329400	14.777800	2.166870	32.218682	1.264120	0.013762	0.133801	0.032123	0.002739	0.001320	0.091683	0.000458	0.009057	0.005224	0.001423	0.014230
20-Oct-2032	0.084116	9.375560	14.851000	2.177590	32.378089	1.270380	0.013830	0.134464	0.032281	0.002753	0.001326	0.092137	0.000460	0.009102	0.005250	0.001430	0.014300
21-Oct-2032	0.084007	9.420550	14.922300	2.188040	32.533462	1.276470	0.013896	0.135109	0.032436	0.002766	0.001333	0.092579	0.000462	0.009146	0.005275	0.001437	0.014369
22-Oct-2032	0.084058	9.470510	15.001400	2.199650	32.706022	1.283240	0.013970	0.135825	0.032608	0.002781	0.001340	0.093070	0.000465	0.009194	0.005303	0.001445	0.014445
23-Oct-2032	0.085227	9.505320	15.056500	2.207730	32.826216	1.287960	0.014021	0.136324	0.032728	0.002791	0.001345	0.093412	0.000466	0.009228	0.005323	0.001450	0.014498
24-Oct-2032	0.085582	9.554470	15.134400	2.219140	32.995930	1.294620	0.014094	0.137030	0.032897	0.002805	0.001352	0.093895	0.000469	0.009276	0.005350	0.001457	0.014573
25-Oct-2032	0.086631	9.615880	15.231700	2.233410	33.208035	1.302940	0.014184	0.137910	0.033109	0.002823	0.001360	0.094499	0.000472	0.009335	0.005385	0.001467	0.014667
26-Oct-2032	0.087159	9.682200	15.336700	2.248810	33.437053	1.311930	0.014282	0.138861	0.033337	0.002843	0.001370	0.095151	0.000475	0.009400	0.005422	0.001477	0.014768
27-Oct-2032	0.087987	9.741580	15.430800	2.262610	33.642153	1.319970	0.014370	0.139713	0.033541	0.002860	0.001378	0.095734	0.000478	0.009457	0.005455	0.001486	0.014859
28-Oct-2032	0.087044	9.762950	15.464600	2.267570	33.715939	1.322870	0.014401	0.140020	0.033615	0.002867	0.001381	0.095944	0.000479	0.009478	0.005467	0.001489	0.014891
29-Oct-2032	0.087158	9.826250	15.564900	2.282270	33.934534	1.331450	0.014494	0.140927	0.033833	0.002885	0.001390	0.096566	0.000482	0.009540	0.005503	0.001499	0.014988
30-Oct-2032	0.086997	9.872380	15.638000	2.292980	34.093825	1.337700	0.014563	0.141589	0.033992	0.002899	0.001397	0.097020	0.000484	0.009584	0.005528	0.001506	0.015058
31-Oct-2032	0.086966	9.922380	15.717100	2.304600	34.266526	1.344470	0.014636	0.142306	0.034164	0.002913	0.001404	0.097511	0.000487	0.009633	0.005556	0.001513	0.015134
1-Nov-2032	0.086739	9.969270	15.791400	2.315490	34.428455	1.350820	0.014705	0.142979	0.034325	0.002927	0.001410	0.097972	0.000489	0.009678	0.005583	0.001521	0.015206
2-Nov-2032	0.086681	10.022000	15.875000	2.327740	34.610567	1.357970	0.014783	0.143735	0.034507	0.002943	0.001418	0.098490	0.000492	0.009730	0.005612	0.001529	0.015286
3-Nov-2032	0.086677	10.069300	15.949900	2.338720	34.773891	1.364380	0.014853	0.144413	0.034670	0.002957	0.001424	0.098955	0.000494	0.009776	0.005639	0.001536	0.015358
4-Nov-2032	0.086807	10.122500	16.034100	2.351070	34.957589	1.371590	0.014931	0.145176	0.034853	0.002972	0.001432	0.099477	0.000497	0.009827	0.005669	0.001544	0.015440
5-Nov-2032	0.086856	10.182400	16.129100	2.364990	35.164482	1.379710	0.015020	0.146036	0.035059	0.002990	0.001440	0.100067	0.000500	0.009885	0.005702	0.001553	0.015531
6-Nov-2032	0.086866	10.232800	16.208900	2.376690	35.338511	1.386530	0.015094	0.146758	0.035232	0.003005	0.001448	0.100562	0.000502	0.009934	0.005730	0.001561	0.015608
7-Nov-2032	0.086954	10.290500	16.300300	2.390090	35.537769	1.394360	0.015179	0.147586	0.035431	0.003022	0.001456	0.101129	0.000505	0.009990	0.005763	0.001570	0.015696
8-Nov-2032	0.086996	10.346400	16.388800	2.403070	35.730803	1.401930	0.015262	0.148387	0.035623	0.003038	0.001464	0.101678	0.000508	0.010044	0.005794	0.001578	0.015781
9-Nov-2032	0.087067	10.402200	16.477200	2.416040	35.923546	1.409500	0.015344	0.149188	0.035815	0.003054	0.001472	0.102227	0.000510	0.010099	0.005825	0.001587	0.015866
10-Nov-2032	0.087121	10.458600	16.566600	2.429140	36.118323	1.417140	0.015427	0.149997	0.036009	0.003071	0.001480	0.102782	0.000513	0.010153	0.005857	0.001595	0.015952
11-Nov-2032	0.087181	10.516200	16.657900	2.442520	36.317249	1.424950	0.015512	0.150824	0.036207	0.003088	0.001488	0.103348	0.000516	0.010209	0.005889	0.001604	0.016040
12-Nov-2032	0.087240	10.580100	16.759000	2.457350	36.537877	1.433600	0.015606	0.151740	0.036427	0.003107	0.001497	0.103976	0.000519	0.010271	0.005925	0.001614	0.016137
13-Nov-2032	0.087325	10.647500	16.865700	2.473000	36.770622	1.442730	0.015706	0.152706	0.036659	0.003126	0.001506	0.104638	0.000522	0.010337	0.005963	0.001624	0.016240
14-Nov-2032	0.087324	10.712800	16.969200	2.488180	36.996187	1.451580	0.015802	0.153643	0.036884	0.003146	0.001516	0.105280	0.000526	0.010400	0.005999	0.001634	0.016340
15-Nov-2032	0.087255	10.794500	17.098600	2.507160	37.278351	1.462650	0.015923	0.154815	0.037165	0.003170	0.001527	0.106083	0.000530	0.010480	0.006045	0.001646	0.016465

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
16-Nov-2032	0.087205	10.860000	17.202400	2.522370	37.504540	1.471530	0.016019	0.155754	0.037391	0.003189	0.001536	0.106727	0.000533	0.010543	0.006082	0.001656	0.016564
17-Nov-2032	0.087185	10.940200	17.329400	2.540990	37.781476	1.482400	0.016138	0.156904	0.037667	0.003212	0.001548	0.107515	0.000537	0.010621	0.006126	0.001669	0.016687
18-Nov-2032	0.087170	10.990400	17.409000	2.552650	37.954842	1.489200	0.016212	0.157624	0.037840	0.003227	0.001555	0.108008	0.000539	0.010670	0.006155	0.001676	0.016763
19-Nov-2032	0.087159	11.061300	17.521300	2.569120	38.199702	1.498810	0.016316	0.158641	0.038084	0.003248	0.001565	0.108705	0.000543	0.010739	0.006194	0.001687	0.016871
20-Nov-2032	0.087150	11.107800	17.594900	2.579920	38.360287	1.505100	0.016385	0.159308	0.038244	0.003262	0.001571	0.109162	0.000545	0.010784	0.006220	0.001694	0.016942
21-Nov-2032	0.087147	11.171900	17.696400	2.594800	38.581621	1.513790	0.016479	0.160227	0.038464	0.003280	0.001580	0.109792	0.000548	0.010846	0.006256	0.001704	0.017040
22-Nov-2032	0.087141	11.232300	17.792200	2.608850	38.790297	1.521980	0.016569	0.161094	0.038673	0.003298	0.001589	0.110386	0.000551	0.010905	0.006290	0.001713	0.017132
23-Nov-2032	0.087139	11.298800	17.897500	2.624290	39.019930	1.530990	0.016667	0.162048	0.038902	0.003318	0.001598	0.111039	0.000554	0.010969	0.006327	0.001723	0.017234
24-Nov-2032	0.087137	11.344500	17.969900	2.634900	39.177735	1.537180	0.016734	0.162703	0.039059	0.003331	0.001605	0.111488	0.000557	0.011013	0.006353	0.001730	0.017303
25-Nov-2032	0.087130	11.337900	17.959400	2.633370	39.154954	1.536290	0.016724	0.162609	0.039036	0.003329	0.001604	0.111424	0.000556	0.011007	0.006349	0.001729	0.017293
26-Nov-2032	0.087130	11.384100	18.032600	2.644100	39.314502	1.542540	0.016792	0.163271	0.039195	0.003343	0.001610	0.111878	0.000559	0.011052	0.006375	0.001736	0.017364
27-Nov-2032	0.087127	11.449100	18.135500	2.659190	39.538947	1.551350	0.016888	0.164203	0.039419	0.003362	0.001620	0.112516	0.000562	0.011115	0.006411	0.001746	0.017463
28-Nov-2032	0.087123	11.514000	18.238400	2.674280	39.763143	1.560150	0.016984	0.165135	0.039643	0.003381	0.001629	0.113155	0.000565	0.011178	0.006448	0.001756	0.017562
29-Nov-2032	0.087118	11.589200	18.357500	2.691730	40.022777	1.570330	0.017095	0.166212	0.039901	0.003403	0.001639	0.113893	0.000569	0.011251	0.006490	0.001768	0.017677
30-Nov-2032	0.087120	11.642900	18.442600	2.704210	40.208258	1.577620	0.017174	0.166983	0.040086	0.003419	0.001647	0.114421	0.000571	0.011303	0.006520	0.001776	0.017759
1-Dec-2032	0.087119	11.714100	18.555300	2.720740	40.454115	1.587260	0.017279	0.168004	0.040331	0.003440	0.001657	0.115121	0.000575	0.011372	0.006560	0.001787	0.017867
2-Dec-2032	0.087118	11.767100	18.639300	2.733050	40.637149	1.594440	0.017357	0.168764	0.040514	0.003455	0.001665	0.115642	0.000577	0.011424	0.006589	0.001795	0.017948
3-Dec-2032	0.087117	11.836700	18.749600	2.749230	40.877569	1.603880	0.017460	0.169763	0.040754	0.003476	0.001675	0.116326	0.000581	0.011491	0.006628	0.001805	0.018054
4-Dec-2032	0.087121	11.889300	18.832900	2.761440	41.059192	1.611000	0.017538	0.170517	0.040935	0.003491	0.001682	0.116843	0.000583	0.011542	0.006658	0.001813	0.018134
5-Dec-2032	0.087121	11.966400	18.954900	2.779340	41.325423	1.621440	0.017651	0.171622	0.041200	0.003514	0.001693	0.117600	0.000587	0.011617	0.006701	0.001825	0.018252
6-Dec-2032	0.087122	12.002700	19.012400	2.787760	41.450738	1.626360	0.017705	0.172142	0.041325	0.003524	0.001698	0.117956	0.000589	0.011652	0.006721	0.001831	0.018307
7-Dec-2032	0.087122	12.068200	19.116200	2.802980	41.676967	1.635240	0.017802	0.173082	0.041550	0.003544	0.001707	0.118600	0.000592	0.011716	0.006758	0.001841	0.018407
8-Dec-2032	0.087122	12.130000	19.214000	2.817330	41.890375	1.643610	0.017893	0.173968	0.041763	0.003562	0.001716	0.119207	0.000595	0.011776	0.006793	0.001850	0.018501
9-Dec-2032	0.087122	12.191800	19.312000	2.831700	42.103865	1.651990	0.017984	0.174855	0.041976	0.003580	0.001725	0.119815	0.000598	0.011836	0.006827	0.001860	0.018596
10-Dec-2032	0.087122	12.259700	19.419500	2.847460	42.338311	1.661180	0.018084	0.175828	0.042210	0.003600	0.001734	0.120482	0.000601	0.011902	0.006865	0.001870	0.018699
11-Dec-2032	0.087122	12.319900	19.514900	2.861440	42.546200	1.669340	0.018173	0.176692	0.042417	0.003618	0.001743	0.121074	0.000604	0.011960	0.006899	0.001879	0.018791
12-Dec-2032	0.087122	12.387500	19.622000	2.877150	42.779691	1.678510	0.018273	0.177662	0.042650	0.003637	0.001752	0.121739	0.000608	0.012026	0.006937	0.001889	0.018894
13-Dec-2032	0.087122	12.452000	19.724100	2.892120	43.002394	1.687240	0.018368	0.178586	0.042872	0.003656	0.001762	0.122372	0.000611	0.012089	0.006973	0.001899	0.018993
14-Dec-2032	0.087122	12.524100	19.838400	2.908880	43.251446	1.697020	0.018474	0.179621	0.043120	0.003678	0.001772	0.123081	0.000614	0.012159	0.007013	0.001910	0.019103
15-Dec-2032	0.087122	12.589900	19.942600	2.924170	43.478712	1.705940	0.018571	0.180565	0.043347	0.003697	0.001781	0.123728	0.000618	0.012223	0.007050	0.001920	0.019203
16-Dec-2032	0.087122	12.643100	20.026800	2.936510	43.662369	1.713140	0.018650	0.181327	0.043530	0.003712	0.001789	0.124250	0.000620	0.012274	0.007080	0.001928	0.019284
17-Dec-2032	0.087122	12.715400	20.141300	2.953300	43.912043	1.722930	0.018756	0.182364	0.043779	0.003734	0.001799	0.124961	0.000624	0.012344	0.007121	0.001939	0.019394
18-Dec-2032	0.087122	12.795500	20.268200	2.971910	44.188689	1.733790	0.018874	0.183513	0.044055	0.003757	0.001810	0.125748	0.000628	0.012422	0.007165	0.001952	0.019517
19-Dec-2032	0.087122	12.847500	20.350500	2.983980	44.368237	1.740830	0.018951	0.184258	0.044233	0.003772	0.001817	0.126259	0.000630	0.012473	0.007194	0.001960	0.019596
20-Dec-2032	0.087122	12.906500	20.444100	2.997690	44.572018	1.748830	0.019038	0.185105	0.044437	0.003790	0.001826	0.126839	0.000633	0.012530	0.007228	0.001969	0.019686
21-Dec-2032	0.087122	12.969200	20.543400	3.012260	44.788579	1.757330	0.019131	0.186005	0.044653	0.003808	0.001835	0.127455	0.000636	0.012591	0.007263	0.001978	0.019782
22-Dec-2032	0.087122	13.035800	20.648900	3.027720	45.018544	1.766350	0.019229	0.186959	0.044882	0.003828	0.001844	0.128110	0.000640	0.012655	0.007300	0.001988	0.019883
23-Dec-2032	0.087122	13.132800	20.802600	3.050260	45.353572	1.779500	0.019372	0.188351	0.045216	0.003856	0.001858	0.129063	0.000644	0.012750	0.007354	0.002003	0.020031
24-Dec-2032	0.087122	13.188300	20.890400	3.063140	45.545196	1.787010	0.019454	0.189146	0.045407	0.003873	0.001866	0.129608	0.000647	0.012803	0.007385	0.002012	0.020116
25-Dec-2032	0.087122	13.237300	20.968100	3.074520	45.714411	1.793650	0.019526	0.189849	0.045576	0.003887	0.001873	0.130090	0.000649	0.012851	0.007413	0.002019	0.020190
26-Dec-2032	0.087122	13.316600	21.093700	3.092950	45.988318	1.804400	0.019643	0.190987	0.045849	0.003910	0.001884	0.130869	0.000653	0.012928	0.007457	0.002031	0.020311
27-Dec-2032	0.087122	13.397800	21.222300	3.111810	46.268740	1.815400	0.019763	0.192152	0.046128	0.003934	0.001895	0.131667	0.000657	0.013007	0.007503	0.002044	0.020435
28-Dec-2032	0.087122	13.477600	21.348800	3.130340	46.544307	1.826220	0.019881	0.193296	0.046403	0.003957	0.001907	0.132452	0.000661	0.013084	0.007547	0.002056	0.020557
29-Dec-2032	0.087122	13.526900	21.426800	3.141790	46.714561	1.832900	0.019953	0.194003	0.046573	0.003972	0.001914	0.132936	0.000664	0.013132	0.007575	0.002063	0.020632
30-Dec-2032	0.087122	13.603800	21.548600	3.159640	46.980086	1.843310	0.020067	0.195106	0.046837	0.003995	0.001924	0.133692	0.000667	0.013207	0.007618	0.002075	0.020749
31-Dec-2032	0.087122	13.709200	21.715600	3.184140	47.344161	1.857600	0.020222	0.196618	0.047201	0.004025	0.001939	0.134728	0.000673	0.013309	0.007677	0.002091	0.020910
1-Jan-2033	0.087122	13.781500	21.830000	3.200910	47.593753	1.867390	0.020329	0.197654	0.047449	0.004047	0.001950	0.135438	0.000676	0.013379	0.007718	0.002102	0.021020
2-Jan-2033	0.087122	13.849600	21.937900	3.216730	47.828945	1.876610	0.020429	0.198631	0.047684	0.004067	0.001959	0.136107	0.000679	0.013445	0.007756	0.002112	0.021124
3-Jan-2033	0.087122	13.908600	22.031400	3.230440	48.032726	1.884610	0.020516	0.199477	0.047887	0.004084	0.001968	0.136687	0.000682	0.013503	0.007789	0.002121	0.021214
4-Jan-2033	0.087122	13.974300	22.135500	3.245700	48.259620	1.893520	0.020613	0.200420	0.048113	0.004103	0.001977	0.137333	0.000686	0.013567	0.007826	0.002131	0.021315
5-Jan-2033	0.087122	14.049300	22.254300	3.263110	48.518589	1.903680	0.020724	0.201495	0.048371	0.004125	0.001987	0.138070	0.000689	0.013639	0.007867	0.002143	0.021429

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
6-Jan-2033	0.087122	14.120500	22.367100	3.279660	48.764528	1.913330	0.020829	0.202516	0.048616	0.004146	0.001998	0.138769	0.000693	0.013708	0.007907	0.002154	0.021538
7-Jan-2033	0.087122	14.194000	22.483500	3.296720	49.018311	1.923280	0.020937	0.203570	0.048870	0.004168	0.002008	0.139492	0.000696	0.013780	0.007949	0.002165	0.021650
8-Jan-2033	0.087122	14.261200	22.590000	3.312340	49.250433	1.932390	0.021036	0.204535	0.049101	0.004188	0.002017	0.140152	0.000700	0.013845	0.007986	0.002175	0.021752
9-Jan-2033	0.087122	14.333700	22.704700	3.329160	49.500730	1.942210	0.021143	0.205573	0.049350	0.004209	0.002028	0.140864	0.000703	0.013915	0.008027	0.002186	0.021863
10-Jan-2033	0.087122	14.416200	22.835500	3.348340	49.785716	1.953400	0.021265	0.206758	0.049635	0.004233	0.002039	0.141676	0.000707	0.013996	0.008073	0.002199	0.021989
11-Jan-2033	0.087122	14.488500	22.949900	3.365120	50.035349	1.963190	0.021372	0.207794	0.049883	0.004254	0.002050	0.142386	0.000711	0.014066	0.008113	0.002210	0.022099
12-Jan-2033	0.087122	14.584600	23.102200	3.387450	50.367265	1.976210	0.021513	0.209173	0.050214	0.004283	0.002063	0.143331	0.000716	0.014159	0.008167	0.002225	0.022245
13-Jan-2033	0.087122	14.603900	23.132800	3.391940	50.433947	1.978830	0.021542	0.209450	0.050281	0.004288	0.002066	0.143521	0.000716	0.014178	0.008178	0.002227	0.022275
14-Jan-2033	0.087122	14.670900	23.238900	3.407500	50.665322	1.987910	0.021641	0.210410	0.050512	0.004308	0.002075	0.144179	0.000720	0.014243	0.008216	0.002238	0.022377
15-Jan-2033	0.087122	14.744400	23.355400	3.424570	50.919146	1.997870	0.021749	0.211464	0.050765	0.004329	0.002086	0.144901	0.000723	0.014314	0.008257	0.002249	0.022489
16-Jan-2033	0.087122	14.817100	23.470400	3.441440	51.170149	2.007710	0.021856	0.212506	0.051015	0.004351	0.002096	0.145615	0.000727	0.014385	0.008297	0.002260	0.022600
17-Jan-2033	0.087122	14.889500	23.585300	3.458280	51.420279	2.017530	0.021963	0.213546	0.051264	0.004372	0.002106	0.146327	0.000730	0.014455	0.008338	0.002271	0.022711
18-Jan-2033	0.087122	14.963100	23.701700	3.475360	51.674393	2.027500	0.022072	0.214601	0.051517	0.004394	0.002117	0.147050	0.000734	0.014526	0.008379	0.002282	0.022823
19-Jan-2033	0.087122	15.037400	23.819500	3.492620	51.930997	2.037570	0.022181	0.215667	0.051773	0.004415	0.002127	0.147780	0.000738	0.014599	0.008421	0.002294	0.022936
20-Jan-2033	0.087122	15.112400	23.938200	3.510030	52.189966	2.047720	0.022292	0.216742	0.052031	0.004437	0.002138	0.148517	0.000741	0.014671	0.008463	0.002305	0.023050
21-Jan-2033	0.087122	15.188000	24.058000	3.527600	52.451093	2.057980	0.022404	0.217827	0.052292	0.004460	0.002149	0.149261	0.000745	0.014745	0.008505	0.002317	0.023166
22-Jan-2033	0.087122	15.265000	24.180000	3.545490	52.717033	2.068410	0.022517	0.218931	0.052557	0.004482	0.002159	0.150017	0.000749	0.014820	0.008548	0.002328	0.023283
23-Jan-2033	0.087122	15.342500	24.302700	3.563470	52.984592	2.078900	0.022631	0.220042	0.052824	0.004505	0.002170	0.150778	0.000753	0.014895	0.008592	0.002340	0.023401
24-Jan-2033	0.087122	15.420500	24.426200	3.581590	53.253976	2.089470	0.022746	0.221160	0.053092	0.004528	0.002181	0.151545	0.000757	0.014970	0.008635	0.002352	0.023520
25-Jan-2033	0.087122	15.499900	24.552000	3.600040	53.528215	2.100230	0.022864	0.222300	0.053366	0.004551	0.002193	0.152326	0.000760	0.015048	0.008680	0.002364	0.023641
26-Jan-2033	0.087122	15.577000	24.674100	3.617940	53.794446	2.110680	0.022977	0.223405	0.053631	0.004574	0.002204	0.153083	0.000764	0.015122	0.008723	0.002376	0.023759
27-Jan-2033	0.087122	15.650900	24.791200	3.635110	54.049680	2.120690	0.023086	0.224465	0.053886	0.004596	0.002214	0.153809	0.000768	0.015194	0.008764	0.002387	0.023872
28-Jan-2033	0.087122	15.723400	24.906000	3.651940	54.300019	2.130510	0.023193	0.225505	0.054135	0.004617	0.002224	0.154522	0.000771	0.015265	0.008805	0.002398	0.023982
29-Jan-2033	0.087122	15.802200	25.030900	3.670250	54.572183	2.141190	0.023309	0.226635	0.054406	0.004640	0.002235	0.155296	0.000775	0.015341	0.008849	0.002410	0.024103
30-Jan-2033	0.087122	15.883700	25.160100	3.689190	54.853683	2.152240	0.023430	0.227805	0.054687	0.004664	0.002247	0.156098	0.000779	0.015420	0.008895	0.002423	0.024227
31-Jan-2033	0.087122	16.050800	25.424700	3.727990	55.430710	2.174880	0.023676	0.230201	0.055262	0.004713	0.002271	0.157740	0.000787	0.015582	0.008988	0.002448	0.024482
1-Feb-2033	0.087122	16.300600	25.820500	3.786020	56.293429	2.208740	0.024045	0.233784	0.056123	0.004786	0.002306	0.160195	0.000800	0.015825	0.009128	0.002486	0.024863
2-Feb-2033	0.087122	16.585800	26.272100	3.852250	57.278308	2.247370	0.024465	0.237874	0.057104	0.004870	0.002346	0.162997	0.000814	0.016102	0.009288	0.002530	0.025298
3-Feb-2033	0.087122	16.847600	26.686800	3.913050	58.182397	2.282840	0.024851	0.241628	0.058006	0.004947	0.002383	0.165570	0.000827	0.016356	0.009435	0.002570	0.025697
4-Feb-2033	0.087122	17.122600	27.122400	3.976920	59.132089	2.320110	0.025257	0.245572	0.058953	0.005028	0.002422	0.168272	0.000840	0.016623	0.009589	0.002612	0.026117
5-Feb-2033	0.087122	17.419700	27.593100	4.045940	60.158172	2.360370	0.025695	0.249834	0.059976	0.005115	0.002464	0.171193	0.000855	0.016911	0.009755	0.002657	0.026570
6-Feb-2033	0.087122	17.716600	28.063400	4.114900	61.183508	2.400600	0.026133	0.254092	0.060998	0.005202	0.002506	0.174111	0.000869	0.017200	0.009921	0.002702	0.027023
7-Feb-2033	0.087122	17.988200	28.493600	4.177980	62.121457	2.437400	0.026534	0.257987	0.061933	0.005282	0.002545	0.176779	0.000882	0.017463	0.010073	0.002744	0.027437
8-Feb-2033	0.087122	17.929500	28.400600	4.164350	61.918755	2.429450	0.026447	0.257146	0.061731	0.005265	0.002536	0.176203	0.000880	0.017406	0.010040	0.002735	0.027347
9-Feb-2033	0.087122	18.113900	28.692700	4.207180	62.555576	2.454430	0.026719	0.259790	0.062366	0.005319	0.002563	0.178015	0.000889	0.017585	0.010144	0.002763	0.027629
10-Feb-2033	0.087122	18.298100	28.984400	4.249950	63.191650	2.479390	0.026991	0.262431	0.063000	0.005373	0.002589	0.179825	0.000898	0.017764	0.010247	0.002791	0.027909
11-Feb-2033	0.087122	18.485200	29.280800	4.293410	63.837807	2.504740	0.027267	0.265115	0.063644	0.005428	0.002615	0.181664	0.000907	0.017946	0.010352	0.002819	0.028195
12-Feb-2033	0.087122	18.672700	29.577800	4.336960	64.485333	2.530150	0.027544	0.267804	0.064290	0.005483	0.002642	0.183506	0.000916	0.018128	0.010457	0.002848	0.028481
13-Feb-2033	0.087122	18.857500	29.870500	4.379870	65.123482	2.555180	0.027816	0.270454	0.064926	0.005537	0.002668	0.185322	0.000925	0.018307	0.010560	0.002876	0.028763
14-Feb-2033	0.087122	19.038600	30.157300	4.421940	65.748933	2.579720	0.028083	0.273051	0.065549	0.005590	0.002693	0.187102	0.000934	0.018483	0.010662	0.002904	0.029039
15-Feb-2033	0.087122	19.215700	30.437900	4.463070	66.360525	2.603720	0.028345	0.275591	0.066159	0.005642	0.002718	0.188842	0.000943	0.018655	0.010761	0.002931	0.029309
16-Feb-2033	0.087122	19.389800	30.713700	4.503520	66.961826	2.627320	0.028602	0.278089	0.066759	0.005693	0.002743	0.190554	0.000951	0.018824	0.010858	0.002957	0.029575
17-Feb-2033	0.087122	19.562700	30.987500	4.543660	67.558854	2.650740	0.028856	0.280568	0.067354	0.005744	0.002767	0.192252	0.000960	0.018992	0.010955	0.002984	0.029838
18-Feb-2033	0.087122	19.736900	31.263500	4.584120	68.160445	2.674340	0.029113	0.283066	0.067953	0.005795	0.002792	0.193964	0.000968	0.019161	0.011053	0.003010	0.030104
19-Feb-2033	0.087122	19.912400	31.541500	4.624890	68.766560	2.698120	0.029372	0.285583	0.068558	0.005847	0.002817	0.195689	0.000977	0.019331	0.011151	0.003037	0.030372
20-Feb-2033	0.087122	20.094600	31.830200	4.667220	69.395828	2.722820	0.029641	0.288197	0.069185	0.005900	0.002843	0.197480	0.000986	0.019508	0.011253	0.003065	0.030650
21-Feb-2033	0.087122	20.279600	32.123100	4.710180	70.034682	2.747880	0.029914	0.290850	0.069822	0.005955	0.002869	0.199298	0.000995	0.019688	0.011356	0.003093	0.030932
22-Feb-2033	0.087122	20.468200	32.422000	4.753990	70.686026	2.773440	0.030192	0.293555	0.070472	0.006010	0.002896	0.201152	0.001004	0.019871	0.011462	0.003122	0.031220
23-Feb-2033	0.087122	20.659700	32.725300	4.798480	71.347412	2.799390	0.030475	0.296302	0.071131	0.006066	0.002923	0.203034	0.001014	0.020057	0.011569	0.003151	0.031512
24-Feb-2033	0.087122	20.855100	33.034700	4.843840	72.022118	2.825860	0.030763	0.299104	0.071803	0.006124	0.002950	0.204954	0.001023	0.020246	0.011679	0.003181	0.031810
25-Feb-2033	0.087122	21.055100	33.351600	4.890300	72.712840	2.852970	0.031058	0.301973	0.072492	0.006182	0.002979	0.206920	0.001033	0.020441	0.011791	0.003211	0.032115

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
26-Feb-2033	0.087122	21.260000	33.676100	4.937880	73.420410	2.880720	0.031360	0.304911	0.073197	0.006243	0.003008	0.208933	0.001043	0.020640	0.011905	0.003243	0.032427
27-Feb-2033	0.087122	21.465700	34.002000	4.985680	74.130883	2.908610	0.031664	0.307862	0.073906	0.006303	0.003037	0.210955	0.001053	0.020839	0.012021	0.003274	0.032741
28-Feb-2033	0.087122	21.672700	34.329800	5.033740	74.845673	2.936650	0.031969	0.310830	0.074618	0.006364	0.003066	0.212989	0.001063	0.021040	0.012137	0.003306	0.033057
1-Mar-2033	0.087122	21.883800	34.664300	5.082790	75.574778	2.965260	0.032280	0.313858	0.075345	0.006426	0.003096	0.215064	0.001074	0.021245	0.012255	0.003338	0.033379
2-Mar-2033	0.087122	17.370400	27.515000	4.034490	59.987919	2.353690	0.025623	0.249127	0.059806	0.005101	0.002457	0.170708	0.000852	0.016864	0.009727	0.002649	0.026495
3-Mar-2033	0.087122	17.471800	27.675500	4.058030	60.338052	2.367420	0.025772	0.250580	0.060155	0.005130	0.002472	0.171704	0.000857	0.016962	0.009784	0.002665	0.026649
4-Mar-2033	0.087122	17.581500	27.849300	4.083520	60.716941	2.382290	0.025934	0.252154	0.060533	0.005163	0.002487	0.172783	0.000863	0.017068	0.009846	0.002682	0.026817
5-Mar-2033	0.087122	17.698400	28.034600	4.110670	61.120644	2.398130	0.026107	0.253831	0.060935	0.005197	0.002504	0.173932	0.000868	0.017182	0.009911	0.002699	0.026995
6-Mar-2033	0.087122	17.821200	28.229000	4.139180	61.544680	2.414760	0.026288	0.255591	0.061358	0.005233	0.002521	0.175138	0.000874	0.017301	0.009980	0.002718	0.027182
7-Mar-2033	0.087122	17.946900	28.428200	4.168390	61.978839	2.431810	0.026473	0.257395	0.061791	0.005270	0.002539	0.176374	0.000880	0.017423	0.010050	0.002737	0.027374
8-Mar-2033	0.087122	18.075200	28.631400	4.198180	62.421880	2.449190	0.026662	0.259235	0.062232	0.005307	0.002557	0.177634	0.000887	0.017548	0.010122	0.002757	0.027570
9-Mar-2033	0.087122	18.206700	28.839700	4.228730	62.876040	2.467010	0.026856	0.261121	0.062685	0.005346	0.002576	0.178927	0.000893	0.017675	0.010196	0.002777	0.027770
10-Mar-2033	0.087122	18.341400	29.053100	4.260020	63.341238	2.485260	0.027055	0.263053	0.063149	0.005386	0.002595	0.180251	0.000900	0.017806	0.010271	0.002798	0.027976
11-Mar-2033	0.087122	18.478700	29.270600	4.291910	63.815399	2.503870	0.027258	0.265022	0.063622	0.005426	0.002614	0.181600	0.000907	0.017939	0.010348	0.002819	0.028185
12-Mar-2033	0.087122	18.617200	29.490000	4.324080	64.293710	2.522630	0.027462	0.267009	0.064099	0.005467	0.002634	0.182961	0.000913	0.018074	0.010426	0.002840	0.028396
13-Mar-2033	0.087122	18.756400	29.710400	4.356390	64.774345	2.541490	0.027667	0.269004	0.064578	0.005507	0.002653	0.184329	0.000920	0.018209	0.010503	0.002861	0.028608
14-Mar-2033	0.087122	18.896500	29.932400	4.388950	65.258257	2.560480	0.027874	0.271014	0.065060	0.005549	0.002673	0.185706	0.000927	0.018345	0.010582	0.002882	0.028822
15-Mar-2033	0.087122	19.142900	30.322600	4.446160	66.109108	2.593860	0.028237	0.274547	0.065908	0.005621	0.002708	0.188127	0.000939	0.018584	0.010720	0.002920	0.029198
16-Mar-2033	0.087122	19.351900	30.653700	4.494710	66.830910	2.622180	0.028546	0.277545	0.066628	0.005682	0.002738	0.190181	0.000949	0.018787	0.010837	0.002952	0.029517
17-Mar-2033	0.087122	19.567000	30.994500	4.544680	67.573791	2.651330	0.028863	0.280631	0.067369	0.005746	0.002768	0.192296	0.000960	0.018996	0.010957	0.002984	0.029845
18-Mar-2033	0.087122	19.790600	31.348500	4.596600	68.345927	2.681620	0.029193	0.283836	0.068138	0.005811	0.002800	0.194492	0.000971	0.019213	0.011083	0.003019	0.030186
19-Mar-2033	0.087122	20.021200	31.713900	4.650170	69.142336	2.712870	0.029533	0.287144	0.068932	0.005879	0.002832	0.196759	0.000982	0.019437	0.011212	0.003054	0.030538
20-Mar-2033	0.087122	20.258300	32.089400	4.705230	69.961112	2.744990	0.029883	0.290544	0.069749	0.005948	0.002866	0.199089	0.000994	0.019667	0.011345	0.003090	0.030899
21-Mar-2033	0.087122	20.402600	32.318000	4.738750	70.459465	2.764550	0.030095	0.292614	0.070246	0.005991	0.002886	0.200507	0.001001	0.019807	0.011425	0.003112	0.031119
22-Mar-2033	0.087122	20.635500	32.686900	4.792840	71.263759	2.796100	0.030439	0.295954	0.071047	0.006059	0.002919	0.202795	0.001012	0.020033	0.011556	0.003147	0.031475
23-Mar-2033	0.087122	20.874000	33.064800	4.848250	72.087472	2.828430	0.030791	0.299376	0.071869	0.006129	0.002953	0.205140	0.001024	0.020265	0.011689	0.003184	0.031839
24-Mar-2033	0.087122	21.118800	33.452500	4.905100	72.932845	2.861600	0.031152	0.302887	0.072712	0.006201	0.002988	0.207546	0.001036	0.020503	0.011826	0.003221	0.032212
25-Mar-2033	0.087122	21.370000	33.850400	4.963450	73.800377	2.895640	0.031522	0.306489	0.073576	0.006275	0.003023	0.210015	0.001048	0.020746	0.011967	0.003260	0.032595
26-Mar-2033	0.087122	21.627200	34.257800	5.023180	74.688574	2.930480	0.031902	0.310178	0.074462	0.006350	0.003060	0.212542	0.001061	0.020996	0.012111	0.003299	0.032987
27-Mar-2033	0.087122	21.891200	34.675900	5.084490	75.600256	2.966250	0.032291	0.313963	0.075371	0.006428	0.003097	0.215136	0.001074	0.021252	0.012259	0.003339	0.033390
28-Mar-2033	0.087122	22.161600	35.104200	5.147290	76.534055	3.002890	0.032690	0.317841	0.076302	0.006507	0.003135	0.217793	0.001087	0.021515	0.012410	0.003380	0.033802
29-Mar-2033	0.087122	22.438400	35.542700	5.211580	77.489971	3.040400	0.033098	0.321811	0.077255	0.006589	0.003174	0.220514	0.001101	0.021784	0.012565	0.003422	0.034225
30-Mar-2033	0.087122	22.727600	36.000900	5.278760	78.488751	3.079590	0.033525	0.325960	0.078251	0.006674	0.003215	0.223356	0.001115	0.022064	0.012727	0.003467	0.034666
31-Mar-2033	0.087122	23.028400	36.477200	5.348610	79.527491	3.120340	0.033969	0.330273	0.079286	0.006762	0.003258	0.226312	0.001130	0.022356	0.012896	0.003512	0.035124
1-Apr-2033	0.087122	23.332500	36.958900	5.419240	80.577683	3.161540	0.034417	0.334634	0.080333	0.006851	0.003301	0.229300	0.001145	0.022652	0.013066	0.003559	0.035588
2-Apr-2033	0.087122	23.526100	37.265700	5.464230	81.246371	3.187790	0.034703	0.337412	0.081000	0.006908	0.003328	0.231203	0.001154	0.022840	0.013175	0.003588	0.035884
3-Apr-2033	0.087122	23.606900	37.393600	5.482980	81.525341	3.198730	0.034822	0.338570	0.081278	0.006932	0.003340	0.231997	0.001158	0.022918	0.013220	0.003601	0.036007
4-Apr-2033	0.087122	23.653000	37.466700	5.493690	81.684556	3.204980	0.034890	0.339231	0.081437	0.006945	0.003346	0.232450	0.001160	0.022963	0.013246	0.003608	0.036077
5-Apr-2033	0.087122	23.686100	37.519100	5.501380	81.798875	3.209460	0.034939	0.339706	0.081551	0.006955	0.003351	0.232776	0.001162	0.022995	0.013264	0.003613	0.036128
6-Apr-2033	0.087122	23.712400	37.560800	5.507490	81.889707	3.213030	0.034978	0.340084	0.081641	0.006963	0.003355	0.233034	0.001163	0.023020	0.013279	0.003617	0.036168
7-Apr-2033	0.087122	23.733900	37.594900	5.512490	81.963982	3.215950	0.035009	0.340392	0.081715	0.006969	0.003358	0.233246	0.001164	0.023041	0.013291	0.003620	0.036201
8-Apr-2033	0.087122	23.751400	37.622600	5.516550	82.024399	3.218310	0.035035	0.340643	0.081775	0.006974	0.003360	0.233417	0.001165	0.023058	0.013301	0.003623	0.036227
9-Apr-2033	0.087122	23.765100	37.644300	5.519740	82.071744	3.220170	0.035055	0.340840	0.081823	0.006978	0.003362	0.233552	0.001166	0.023072	0.013308	0.003625	0.036248
10-Apr-2033	0.087122	23.775400	37.660600	5.522130	82.107305	3.221570	0.035071	0.340987	0.081858	0.006981	0.003363	0.233653	0.001166	0.023082	0.013314	0.003626	0.036264
11-Apr-2033	0.087122	23.782500	37.671800	5.523770	82.131787	3.222520	0.035081	0.341089	0.081882	0.006983	0.003364	0.233723	0.001167	0.023088	0.013318	0.003627	0.036275
12-Apr-2033	0.087122	23.786600	37.678300	5.524730	82.145978	3.223080	0.035087	0.341148	0.081897	0.006985	0.003365	0.233763	0.001167	0.023092	0.013320	0.003628	0.036281
13-Apr-2033	0.087122	23.788500	37.681400	5.525180	82.152576	3.223350	0.035090	0.341176	0.081903	0.006985	0.003365	0.233782	0.001167	0.023094	0.013321	0.003628	0.036284
14-Apr-2033	0.087122	23.789400	37.682700	5.525370	82.155605	3.223460	0.035091	0.341187	0.081906	0.006985	0.003365	0.233791	0.001167	0.023095	0.013322	0.003629	0.036285
15-Apr-2033	0.087122	23.789800	37.683300	5.525460	82.156975	3.223510	0.035092	0.341193	0.081907	0.006985	0.003365	0.233794	0.001167	0.023096	0.013322	0.003629	0.036286
16-Apr-2033	0.087122	23.790100	37.683900	5.525550	82.158095	3.223560	0.035092	0.341198	0.081909	0.006986	0.003365	0.233798	0.001167	0.023096	0.013322	0.003629	0.036286
17-Apr-2033	0.087122	23.790700	37.684800	5.525680	82.160128	3.223640	0.035093	0.341207	0.081911	0.006986	0.003366	0.233804	0.001167	0.023096	0.013323	0.003629	0.036287

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Apr-2033	0.087122	23.791500	37.686100	5.525870	82.162908	3.223750	0.035094	0.341218	0.081914	0.006986	0.003366	0.233812	0.001167	0.023097	0.013323	0.003629	0.036288
19-Apr-2033	0.087122	23.792500	37.687700	5.526110	82.166393	3.223890	0.035096	0.341233	0.081917	0.006986	0.003366	0.233822	0.001167	0.023098	0.013324	0.003629	0.036290
20-Apr-2033	0.087122	23.793700	37.689500	5.526370	82.170461	3.224040	0.035098	0.341249	0.081921	0.006987	0.003366	0.233833	0.001167	0.023099	0.013324	0.003629	0.036292
21-Apr-2033	0.087122	23.794900	37.691500	5.526650	82.174610	3.224210	0.035099	0.341267	0.081925	0.006987	0.003366	0.233845	0.001167	0.023101	0.013325	0.003629	0.036294
22-Apr-2033	0.087122	23.796200	37.693500	5.526950	82.179092	3.224380	0.035101	0.341285	0.081930	0.006987	0.003366	0.233857	0.001167	0.023102	0.013326	0.003630	0.036296
23-Apr-2033	0.087122	23.797500	37.695500	5.527250	82.183573	3.224550	0.035103	0.341304	0.081934	0.006988	0.003367	0.233870	0.001168	0.023103	0.013326	0.003630	0.036298
24-Apr-2033	0.087122	23.798900	37.697700	5.527570	82.188387	3.224740	0.035105	0.341323	0.081939	0.006988	0.003367	0.233884	0.001168	0.023104	0.013327	0.003630	0.036300
25-Apr-2033	0.087122	23.800400	37.700100	5.527920	82.193573	3.224950	0.035107	0.341345	0.081944	0.006989	0.003367	0.233899	0.001168	0.023106	0.013328	0.003630	0.036302
26-Apr-2033	0.087122	23.802000	37.702700	5.528300	82.199133	3.225170	0.035110	0.341369	0.081950	0.006989	0.003367	0.233915	0.001168	0.023107	0.013329	0.003630	0.036304
27-Apr-2033	0.087122	23.803700	37.705400	5.528690	82.204984	3.225400	0.035112	0.341393	0.081955	0.006990	0.003367	0.233931	0.001168	0.023109	0.013330	0.003631	0.036307
28-Apr-2033	0.087122	23.805300	37.708000	5.529080	82.210586	3.225620	0.035115	0.341416	0.081961	0.006990	0.003368	0.233948	0.001168	0.023111	0.013331	0.003631	0.036310
29-Apr-2033	0.087122	23.806900	37.710400	5.529430	82.216022	3.225830	0.035117	0.341438	0.081966	0.006990	0.003368	0.233962	0.001168	0.023112	0.013332	0.003631	0.036312
30-Apr-2033	0.087134	23.807600	37.711500	5.529600	82.218470	3.225920	0.035118	0.341449	0.081969	0.006991	0.003368	0.233970	0.001168	0.023113	0.013332	0.003631	0.036313
1-May-2033	0.087712	23.786600	37.678300	5.524730	82.145978	3.223080	0.035087	0.341148	0.081897	0.006985	0.003365	0.233764	0.001167	0.023092	0.013320	0.003628	0.036281
2-May-2033	0.093937	23.605800	37.391900	5.482740	81.521606	3.198590	0.034820	0.338555	0.081274	0.006931	0.003339	0.231987	0.001158	0.022917	0.013219	0.003601	0.036005
3-May-2033	0.102308	23.386700	37.044900	5.431850	80.764948	3.168900	0.034497	0.335413	0.080520	0.006867	0.003308	0.229834	0.001147	0.022704	0.013096	0.003567	0.035671
4-May-2033	0.110184	22.988500	36.414100	5.339360	79.389769	3.114940	0.033910	0.329702	0.079149	0.006750	0.003252	0.225920	0.001128	0.022318	0.012873	0.003506	0.035064
5-May-2033	0.117801	22.404200	35.488600	5.203640	77.371877	3.035770	0.033048	0.321321	0.077137	0.006579	0.003169	0.220178	0.001099	0.021750	0.012546	0.003417	0.034172
6-May-2033	0.130055	21.762800	34.472500	5.054670	75.156843	2.948850	0.032102	0.312122	0.074929	0.006390	0.003079	0.213874	0.001068	0.021128	0.012187	0.003319	0.033194
7-May-2033	0.139996	21.328600	33.784900	4.953830	73.657386	2.890030	0.031461	0.305896	0.073434	0.006263	0.003017	0.209608	0.001046	0.020706	0.011944	0.003253	0.032532
8-May-2033	0.149629	20.807500	32.959400	4.832800	71.857798	2.819420	0.030693	0.298422	0.071640	0.006110	0.002944	0.204486	0.001021	0.020200	0.011652	0.003174	0.031737
9-May-2033	0.150929	20.456900	32.404000	4.751360	70.646980	2.771900	0.030176	0.293393	0.070432	0.006007	0.002894	0.201040	0.001004	0.019860	0.011456	0.003120	0.031202
10-May-2033	0.219404	20.349900	32.234600	4.726510	70.277468	2.757410	0.030018	0.291859	0.070064	0.005975	0.002879	0.199989	0.000998	0.019756	0.011396	0.003104	0.031039
11-May-2033	0.227266	20.067000	31.786400	4.660790	69.300432	2.719070	0.029600	0.287801	0.069090	0.005892	0.002839	0.197209	0.000984	0.019481	0.011237	0.003061	0.030607
12-May-2033	0.233364	19.721300	31.238900	4.580520	68.106667	2.672240	0.029091	0.282844	0.067900	0.005791	0.002790	0.193812	0.000968	0.019146	0.011044	0.003008	0.030080
13-May-2033	0.244359	19.357900	30.663200	4.496100	66.851616	2.622990	0.028554	0.277631	0.066649	0.005684	0.002738	0.190240	0.000950	0.018793	0.010840	0.002953	0.029526
14-May-2033	0.249895	18.983800	30.070600	4.409220	65.559717	2.572300	0.028003	0.272266	0.065361	0.005574	0.002686	0.186564	0.000931	0.018430	0.010631	0.002896	0.028955
15-May-2033	0.251951	18.634500	29.517300	4.328090	64.353421	2.524980	0.027487	0.267257	0.064158	0.005472	0.002636	0.183131	0.000914	0.018091	0.010435	0.002842	0.028423
16-May-2033	0.253925	18.480200	29.272900	4.292250	63.820545	2.504070	0.027260	0.265043	0.063627	0.005426	0.002614	0.181615	0.000907	0.017941	0.010349	0.002819	0.028187
17-May-2033	0.252231	18.112100	28.689800	4.206760	62.549351	2.454190	0.026717	0.259764	0.062359	0.005318	0.002562	0.177997	0.000889	0.017584	0.010143	0.002763	0.027626
18-May-2033	0.255908	17.885500	28.330800	4.154110	61.766718	2.423480	0.026382	0.256513	0.061579	0.005252	0.002530	0.175770	0.000877	0.017364	0.010016	0.002728	0.027280
19-May-2033	0.294266	16.216500	25.687100	3.766470	56.002924	2.197330	0.023921	0.232577	0.055833	0.004762	0.002294	0.159368	0.000796	0.015743	0.009081	0.002473	0.024734
20-May-2033	0.304730	15.870200	25.138700	3.686050	54.807043	2.150410	0.023410	0.227611	0.054641	0.004660	0.002245	0.155965	0.000779	0.015407	0.008887	0.002421	0.024206
21-May-2033	0.317145	15.305300	24.243900	3.554850	52.856206	2.073870	0.022577	0.219509	0.052696	0.004494	0.002165	0.150414	0.000751	0.014859	0.008571	0.002334	0.023345
22-May-2033	0.334183	14.748800	23.362400	3.425600	50.934374	1.998470	0.021756	0.211528	0.050780	0.004331	0.002086	0.144945	0.000724	0.014318	0.008259	0.002250	0.022496
23-May-2033	0.367237	13.325700	21.108100	3.095050	46.019689	1.805630	0.019656	0.191117	0.045880	0.003913	0.001885	0.130959	0.000654	0.012937	0.007462	0.002033	0.020325
24-May-2033	0.413079	11.990200	18.992600	2.784860	41.407583	1.624670	0.017686	0.171963	0.041282	0.003521	0.001696	0.117834	0.000588	0.011640	0.006714	0.001829	0.018288
25-May-2033	0.447957	11.321800	17.933900	2.629630	39.099351	1.534100	0.016701	0.162378	0.038981	0.003324	0.001602	0.111265	0.000555	0.010991	0.006340	0.001727	0.017269
26-May-2033	0.480163	10.829200	17.153700	2.515220	37.398188	1.467360	0.015974	0.155313	0.037285	0.003180	0.001532	0.106425	0.000531	0.010513	0.006064	0.001652	0.016518
27-May-2033	0.513398	10.692600	16.937300	2.483490	36.926434	1.448850	0.015772	0.153354	0.036814	0.003140	0.001513	0.105082	0.000525	0.010381	0.005988	0.001631	0.016309
28-May-2033	0.541941	11.778100	18.656600	2.735600	40.675117	1.595930	0.017374	0.168921	0.040552	0.003458	0.001666	0.115749	0.000578	0.011434	0.006596	0.001796	0.017965
29-May-2033	0.591886	11.666600	18.480100	2.709710	40.290086	1.580830	0.017209	0.167323	0.040168	0.003426	0.001650	0.114654	0.000572	0.011326	0.006533	0.001779	0.017795
30-May-2033	0.602048	11.973600	18.966400	2.781020	41.350320	1.622420	0.017662	0.171726	0.041225	0.003516	0.001694	0.117671	0.000587	0.011624	0.006705	0.001826	0.018263
31-May-2033	0.624574	11.885200	18.826300	2.760470	41.044960	1.610440	0.017532	0.170457	0.040920	0.003490	0.001681	0.116802	0.000583	0.011538	0.006656	0.001813	0.018128
1-Jun-2033	0.861162	11.425900	18.098700	2.653800	39.458821	1.548200	0.016854	0.163870	0.039339	0.003355	0.001616	0.112288	0.000561	0.011092	0.006398	0.001743	0.017428
2-Jun-2033	0.863234	11.316300	17.925100	2.628340	39.080305	1.533350	0.016692	0.162298	0.038962	0.003323	0.001601	0.111211	0.000555	0.010986	0.006337	0.001726	0.017260
3-Jun-2033	0.874767	11.327500	17.942900	2.630950	39.119020	1.534870	0.016709	0.162459	0.039000	0.003326	0.001602	0.111321	0.000556	0.010997	0.006343	0.001728	0.017277
4-Jun-2033	0.952457	10.641200	16.855800	2.471550	36.748919	1.441880	0.015697	0.152616	0.036637	0.003125	0.001505	0.104577	0.000522	0.010331	0.005959	0.001623	0.016231
5-Jun-2033	1.011040	10.357600	16.406600	2.405680	35.769517	1.403450	0.015278	0.148549	0.035661	0.003041	0.001465	0.101790	0.000508	0.010055	0.005800	0.001580	0.015798
6-Jun-2033	1.132892	10.083100	15.971700	2.341940	34.821610	1.366250	0.014873	0.144611	0.034716	0.002961	0.001426	0.099095	0.000495	0.009789	0.005646	0.001538	0.015379
7-Jun-2033	1.342280	9.743980	15.434100	2.263340	33.651152	1.320230	0.014372	0.139741	0.033547	0.002862	0.001379	0.095788	0.000478	0.009460	0.005456	0.001486	0.014862

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Jun-2033	1.401503	9.835510	15.577800	2.285010	33.968940	1.332430	0.014506	0.141036	0.033863	0.002889	0.001392	0.096746	0.000482	0.009550	0.005508	0.001500	0.015001
9-Jun-2033	1.456160	9.604090	15.195400	2.236080	33.189590	1.298000	0.014140	0.137450	0.033233	0.002820	0.001367	0.094912	0.000470	0.009342	0.005375	0.001465	0.014650
10-Jun-2033	1.553097	9.440190	14.900600	2.208460	32.666593	1.268830	0.013843	0.134493	0.033073	0.002767	0.001362	0.094219	0.000461	0.009224	0.005278	0.001441	0.014408
11-Jun-2033	1.678940	9.296930	14.605900	2.195280	32.254597	1.235650	0.013523	0.131244	0.033398	0.002710	0.001378	0.094426	0.000450	0.009165	0.005187	0.001421	0.014207
12-Jun-2033	1.861203	9.145280	14.287300	2.183280	31.826511	1.198790	0.013168	0.127630	0.033832	0.002645	0.001399	0.094676	0.000438	0.009112	0.005090	0.001400	0.013997
13-Jun-2033	1.993170	9.167640	14.275900	2.202050	31.959639	1.192420	0.013132	0.127207	0.034529	0.002642	0.001427	0.096024	0.000437	0.009191	0.005096	0.001404	0.014044
14-Jun-2033	2.131533	9.105690	14.144200	2.196940	31.783907	1.177400	0.012992	0.125789	0.034761	0.002619	0.001435	0.096280	0.000432	0.009174	0.005056	0.001396	0.013957
15-Jun-2033	2.253097	9.006060	13.936600	2.187430	31.495969	1.153980	0.012770	0.123535	0.035061	0.002582	0.001446	0.096562	0.000425	0.009140	0.004994	0.001382	0.013816
16-Jun-2033	2.319930	8.870920	13.695600	2.163330	31.059280	1.130250	0.012528	0.121126	0.034942	0.002537	0.001441	0.095897	0.000417	0.009043	0.004915	0.001362	0.013617
17-Jun-2033	2.386663	8.720910	13.422700	2.138230	30.581343	1.102700	0.012248	0.118320	0.034854	0.002486	0.001438	0.095246	0.000408	0.008941	0.004826	0.001340	0.013396
18-Jun-2033	2.479793	8.581900	13.160400	2.117360	30.148293	1.075320	0.011974	0.115552	0.034880	0.002437	0.001440	0.094903	0.000399	0.008858	0.004742	0.001319	0.013192
19-Jun-2033	2.609280	8.442320	12.899500	2.095420	29.709413	1.048440	0.011702	0.112815	0.034867	0.002391	0.001440	0.094539	0.000390	0.008773	0.004659	0.001298	0.012985
20-Jun-2033	2.765187	8.304050	12.643100	2.073110	29.272280	1.022230	0.011436	0.110137	0.034822	0.002345	0.001439	0.094112	0.000381	0.008685	0.004577	0.001278	0.012780
21-Jun-2033	2.947097	8.143260	12.351400	2.045650	28.757707	0.992979	0.011139	0.107162	0.034702	0.002292	0.001435	0.093435	0.000372	0.008575	0.004482	0.001254	0.012542
22-Jun-2033	3.158133	7.958790	12.024400	2.011980	28.158432	0.961057	0.010813	0.103915	0.034487	0.002232	0.001426	0.092496	0.000361	0.008440	0.004374	0.001227	0.012269
23-Jun-2033	3.362593	7.768430	11.693800	1.975370	27.532343	0.929522	0.010487	0.100695	0.034189	0.002173	0.001413	0.091365	0.000350	0.008292	0.004264	0.001199	0.011985
24-Jun-2033	3.564717	7.594850	11.395700	1.941130	26.957914	0.901414	0.010196	0.097811	0.033878	0.002119	0.001400	0.090243	0.000340	0.008152	0.004164	0.001173	0.011727
25-Jun-2033	3.755893	7.437210	11.120300	1.911230	26.441159	0.874967	0.009923	0.095107	0.033643	0.002069	0.001390	0.089341	0.000331	0.008032	0.004072	0.001149	0.011492
26-Jun-2033	3.965780	7.295610	10.868000	1.885660	25.982286	0.850209	0.009669	0.092576	0.033477	0.002023	0.001384	0.088648	0.000323	0.007929	0.003990	0.001128	0.011281
27-Jun-2033	4.202207	7.162690	10.626700	1.862520	25.555094	0.826205	0.009425	0.090132	0.033368	0.001982	0.001380	0.088158	0.000315	0.007839	0.003912	0.001108	0.011082
28-Jun-2033	4.503943	7.012430	10.354400	1.836050	25.070892	0.799257	0.009151	0.087393	0.033236	0.001936	0.001375	0.087623	0.000306	0.007737	0.003824	0.001086	0.010857
29-Jun-2033	4.782153	6.903060	10.150000	1.818160	24.724124	0.778551	0.008944	0.085316	0.033222	0.001903	0.001373	0.087436	0.000299	0.007670	0.003759	0.001069	0.010694
30-Jun-2033	7.236490	6.849240	10.068200	1.802440	24.525000	0.772821	0.008875	0.084647	0.032966	0.001899	0.001360	0.087110	0.000297	0.007615	0.003732	0.001061	0.010608
1-Jul-2033	8.406823	7.121670	10.496900	1.862500	25.452585	0.810910	0.009289	0.088673	0.033901	0.002001	0.001394	0.090457	0.000310	0.007887	0.003888	0.001101	0.011005
2-Jul-2033	8.822077	7.126680	10.476200	1.867920	25.487415	0.807180	0.009263	0.088370	0.034227	0.002015	0.001404	0.091667	0.000309	0.007934	0.003891	0.001101	0.011010
3-Jul-2033	9.568110	7.100540	10.417100	1.865180	25.410860	0.800680	0.009202	0.087739	0.034307	0.002012	0.001407	0.092038	0.000307	0.007931	0.003876	0.001097	0.010969
4-Jul-2033	10.506900	7.035520	10.295200	1.855450	25.208437	0.788215	0.009076	0.086475	0.034232	0.001993	0.001407	0.091966	0.000303	0.007888	0.003837	0.001087	0.010872
5-Jul-2033	10.917033	7.055760	10.323800	1.858920	25.273265	0.790874	0.009105	0.086758	0.034340	0.002005	0.001409	0.092419	0.000304	0.007917	0.003850	0.001090	0.010900
6-Jul-2033	11.492133	7.051730	10.323800	1.855530	25.249242	0.791750	0.009110	0.086824	0.034262	0.002006	0.001405	0.092251	0.000304	0.007908	0.003849	0.001089	0.010893
7-Jul-2033	10.439167	6.956420	10.184400	1.830220	24.907027	0.781156	0.008988	0.085658	0.033784	0.001981	0.001385	0.091040	0.000300	0.007801	0.003798	0.001074	0.010745
8-Jul-2033	10.120733	6.950470	10.180400	1.826800	24.878086	0.781587	0.008988	0.085677	0.033701	0.001981	0.001381	0.090875	0.000300	0.007790	0.003796	0.001073	0.010734
9-Jul-2033	9.894287	6.977170	10.230500	1.830260	24.959004	0.786900	0.009041	0.086206	0.033727	0.001992	0.001381	0.090999	0.000302	0.007809	0.003813	0.001077	0.010773
10-Jul-2033	9.989547	6.941230	10.185600	1.818100	24.819187	0.784436	0.009006	0.085897	0.033458	0.001983	0.001369	0.090309	0.000301	0.007761	0.003794	0.001072	0.010717
11-Jul-2033	10.779300	7.016560	10.315000	1.831850	25.063909	0.796776	0.009133	0.087155	0.033626	0.002007	0.001375	0.090808	0.000305	0.007825	0.003839	0.001083	0.010830
12-Jul-2033	12.021000	7.014390	10.316500	1.829830	25.050172	0.797471	0.009138	0.087208	0.033567	0.002007	0.001371	0.090662	0.000305	0.007818	0.003839	0.001083	0.010826
13-Jul-2033	13.398667	7.052210	10.384300	1.835900	25.169605	0.804257	0.009206	0.087891	0.033614	0.002020	0.001372	0.090848	0.000307	0.007847	0.003861	0.001088	0.010882
14-Jul-2033	13.124233	7.036610	10.367300	1.830150	25.106973	0.803669	0.009195	0.087798	0.033468	0.002017	0.001366	0.090501	0.000307	0.007822	0.003854	0.001086	0.010857
15-Jul-2033	12.664200	6.972470	10.286600	1.809380	24.861284	0.799098	0.009132	0.087231	0.033012	0.002000	0.001347	0.089312	0.000305	0.007735	0.003821	0.001076	0.010756
16-Jul-2033	13.112500	6.990570	10.325500	1.810470	24.910969	0.803614	0.009174	0.087666	0.032961	0.002007	0.001344	0.089236	0.000306	0.007742	0.003833	0.001078	0.010782
17-Jul-2033	14.315167	7.020490	10.383600	1.814070	25.000504	0.809825	0.009235	0.088277	0.032970	0.002017	0.001344	0.089283	0.000308	0.007759	0.003851	0.001083	0.010826
18-Jul-2033	14.371733	7.009110	10.377800	1.807870	24.946556	0.810706	0.009237	0.088320	0.032783	0.002015	0.001335	0.088811	0.000308	0.007735	0.003847	0.001081	0.010807
19-Jul-2033	14.183700	7.047200	10.447700	1.813780	25.066004	0.817768	0.009307	0.089026	0.032817	0.002028	0.001336	0.088935	0.000311	0.007761	0.003870	0.001086	0.010864
20-Jul-2033	14.505800	7.031180	10.434500	1.806620	24.996518	0.817987	0.009302	0.088999	0.032627	0.002024	0.001327	0.088449	0.000310	0.007732	0.003863	0.001084	0.010838
21-Jul-2033	15.259300	7.189940	10.691200	1.841540	25.536742	0.840580	0.009543	0.091358	0.033128	0.002072	0.001347	0.089877	0.000318	0.007881	0.003953	0.001108	0.011079
22-Jul-2033	16.287433	7.200780	10.709400	1.844450	25.575793	0.842139	0.009560	0.091517	0.033128	0.002074	0.001348	0.089949	0.000319	0.007888	0.003958	0.001110	0.011095
23-Jul-2033	16.463667	7.209470	10.727800	1.845120	25.600251	0.844241	0.009579	0.091720	0.033107	0.002078	0.001347	0.089915	0.000320	0.007891	0.003964	0.001111	0.011108
24-Jul-2033	16.400300	7.214230	10.753000	1.841230	25.596117	0.848366	0.009613	0.092083	0.032926	0.002081	0.001339	0.089493	0.000321	0.007875	0.003969	0.001111	0.011112
25-Jul-2033	15.049500	7.152370	10.676200	1.821100	25.358758	0.844118	0.009554	0.091550	0.032473	0.002065	0.001320	0.088319	0.000319	0.007790	0.003937	0.001101	0.011015
26-Jul-2033	14.001267	7.136650	10.666500	1.813300	25.287384	0.844958	0.009553	0.091577	0.032244	0.002062	0.001310	0.087761	0.000319	0.007756	0.003930	0.001099	0.010988
27-Jul-2033	13.551600	7.149070	10.696700	1.813210	25.318027	0.848724	0.009587	0.091931	0.032168	0.002066	0.001307	0.087603	0.000320	0.007756	0.003939	0.001101	0.011005
28-Jul-2033	12.749600	7.086200	10.617200	1.793180	25.078557	0.844108	0.009525	0.091363	0.031724	0.002050	0.001288	0.086443	0.000318	0.007670	0.003906	0.001091	0.010907

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-	
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-	

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
29-Jul-2033	11.817033	6.997540	10.497200	1.767340	24.750764	0.836041	0.009425	0.090431	0.031176	0.002025	0.001266	0.085019	0.000315	0.007558	0.003859	0.001077	0.010768
30-Jul-2033	11.579600	6.973200	10.473500	1.757760	24.650536	0.835628	0.009411	0.090328	0.030917	0.002020	0.001255	0.084384	0.000314	0.007516	0.003847	0.001073	0.010728
31-Jul-2033	10.696000	6.987000	10.510900	1.756740	24.680794	0.840524	0.009454	0.090781	0.030800	0.002025	0.001250	0.084137	0.000316	0.007511	0.003857	0.001075	0.010747
1-Aug-2033	11.154400	7.067330	10.638600	1.775320	24.957891	0.851505	0.009573	0.091935	0.031049	0.002049	0.001260	0.084897	0.000319	0.007588	0.003902	0.001087	0.010869
2-Aug-2033	11.960800	7.150870	10.774300	1.793780	25.242508	0.863495	0.009701	0.093185	0.031291	0.002075	0.001271	0.085644	0.000324	0.007665	0.003949	0.001100	0.010995
3-Aug-2033	12.836733	7.236300	10.915700	1.811790	25.529992	0.876291	0.009836	0.094508	0.031516	0.002101	0.001279	0.086329	0.000328	0.007741	0.003998	0.001112	0.011125
4-Aug-2033	13.739233	7.301610	11.028100	1.824340	25.744752	0.886901	0.009945	0.095589	0.031644	0.002121	0.001284	0.086735	0.000332	0.007794	0.004036	0.001122	0.011223
5-Aug-2033	14.121733	7.539910	11.410100	1.878120	26.561253	0.920105	0.010302	0.099067	0.032415	0.002192	0.001315	0.088972	0.000344	0.008021	0.004170	0.001159	0.011586
6-Aug-2033	15.101800	7.555250	11.429500	1.884400	26.625418	0.921019	0.010315	0.099181	0.032469	0.002195	0.001321	0.089247	0.000344	0.008036	0.004177	0.001161	0.011609
7-Aug-2033	15.280233	7.574800	11.465700	1.887890	26.688607	0.924622	0.010351	0.099538	0.032463	0.002201	0.001321	0.089295	0.000346	0.008047	0.004188	0.001164	0.011638
8-Aug-2033	15.379600	7.754040	11.755000	1.927950	27.301136	0.949940	0.010622	0.102181	0.033020	0.002254	0.001344	0.090916	0.000355	0.008215	0.004289	0.001191	0.011910
9-Aug-2033	16.314600	7.827890	11.890400	1.939660	27.533761	0.963560	0.010757	0.103539	0.033088	0.002277	0.001345	0.091130	0.000359	0.008267	0.004333	0.001202	0.012021
10-Aug-2033	16.215933	8.006780	12.190100	1.976300	28.131333	0.990963	0.011044	0.106357	0.033545	0.002331	0.001362	0.092433	0.000369	0.008423	0.004436	0.001229	0.012292
11-Aug-2033	16.565600	8.130920	12.401700	2.000970	28.542902	1.010660	0.011247	0.108366	0.033815	0.002368	0.001373	0.093230	0.000376	0.008526	0.004508	0.001248	0.012480
12-Aug-2033	14.605900	8.139330	12.411400	2.005210	28.581362	1.010890	0.011252	0.108404	0.033833	0.002370	0.001376	0.093405	0.000376	0.008533	0.004511	0.001249	0.012492
13-Aug-2033	15.274200	8.186480	12.488100	2.016310	28.744805	1.017550	0.011323	0.109095	0.033946	0.002383	0.001382	0.093814	0.000378	0.008574	0.004537	0.001256	0.012563
14-Aug-2033	15.564267	8.262530	12.611400	2.034180	29.008291	1.028250	0.011437	0.110206	0.034137	0.002405	0.001392	0.094482	0.000382	0.008640	0.004578	0.001268	0.012678
15-Aug-2033	15.759000	8.323150	12.712600	2.047460	29.214346	1.037380	0.011533	0.111142	0.034262	0.002423	0.001398	0.094936	0.000385	0.008690	0.004612	0.001277	0.012769
16-Aug-2033	15.590500	8.343980	12.747800	2.052450	29.286907	1.040540	0.011565	0.111462	0.034275	0.002430	0.001401	0.095092	0.000386	0.008704	0.004624	0.001280	0.012799
17-Aug-2033	15.064200	8.347190	12.758100	2.052330	29.294428	1.041930	0.011577	0.111583	0.034199	0.002431	0.001399	0.094995	0.000387	0.008698	0.004625	0.001280	0.012802
18-Aug-2033	15.130933	8.402980	12.851300	2.064810	29.485129	1.050300	0.011664	0.112440	0.034298	0.002448	0.001405	0.095427	0.000390	0.008743	0.004656	0.001289	0.012885
19-Aug-2033	14.884567	8.403060	12.859600	2.063280	29.479028	1.051840	0.011675	0.112560	0.034178	0.002449	0.001401	0.095210	0.000390	0.008730	0.004657	0.001288	0.012883
20-Aug-2033	13.499900	8.362490	12.810700	2.050150	29.323655	1.049240	0.011637	0.112222	0.033843	0.002438	0.001388	0.094405	0.000389	0.008670	0.004636	0.001282	0.012818
21-Aug-2033	13.053867	8.392750	12.872700	2.053560	29.413257	1.056030	0.011702	0.112874	0.033779	0.002448	0.001385	0.094329	0.000391	0.008682	0.004654	0.001286	0.012862
22-Aug-2033	12.802633	8.443810	12.960500	2.063470	29.581563	1.064300	0.011786	0.113713	0.033877	0.002464	0.001389	0.094648	0.000394	0.008723	0.004684	0.001294	0.012939
23-Aug-2033	12.915833	8.533700	13.119600	2.079700	29.872854	1.079710	0.011942	0.115262	0.034001	0.002492	0.001394	0.095081	0.000399	0.008791	0.004736	0.001307	0.013073
24-Aug-2033	12.825333	8.644250	13.313100	2.100260	30.233563	1.098210	0.012131	0.117130	0.034186	0.002526	0.001400	0.095658	0.000406	0.008877	0.004801	0.001324	0.013240
25-Aug-2033	12.959700	8.670610	13.362700	2.104730	30.317791	1.103210	0.012179	0.117620	0.034172	0.002533	0.001400	0.095691	0.000407	0.008891	0.004816	0.001328	0.013278
26-Aug-2033	12.473533	8.703110	13.418200	2.112050	30.429088	1.108250	0.012231	0.118128	0.034205	0.002543	0.001404	0.095900	0.000409	0.008914	0.004834	0.001333	0.013327
27-Aug-2033	11.457733	8.706440	13.428200	2.112340	30.438597	1.109480	0.012241	0.118234	0.034134	0.002544	0.001402	0.095792	0.000409	0.008909	0.004836	0.001333	0.013331
28-Aug-2033	10.210600	8.698840	13.423200	2.109380	30.407430	1.109690	0.012239	0.118222	0.034005	0.002541	0.001398	0.095516	0.000409	0.008890	0.004831	0.001332	0.013317
29-Aug-2033	10.055170	8.767630	13.537400	2.124530	30.641587	1.119920	0.012346	0.119272	0.034159	0.002562	0.001406	0.096046	0.000413	0.008948	0.004870	0.001342	0.013421
30-Aug-2033	9.489687	8.813480	13.617900	2.133730	30.793960	1.127530	0.012423	0.120034	0.034203	0.002575	0.001409	0.096279	0.000416	0.008980	0.004896	0.001349	0.013489
31-Aug-2033	8.657757	8.744260	13.517600	2.116070	30.548393	1.119870	0.012334	0.119180	0.033813	0.002556	0.001394	0.095369	0.000413	0.008897	0.004857	0.001338	0.013380
1-Sep-2033	7.649917	8.643930	13.369200	2.090790	30.193766	1.108260	0.012201	0.117906	0.033301	0.002528	0.001375	0.094131	0.000408	0.008783	0.004802	0.001322	0.013224
2-Sep-2033	6.857630	8.588280	13.290300	2.075680	29.992585	1.102480	0.012132	0.117255	0.032990	0.002513	0.001363	0.093346	0.000406	0.008716	0.004771	0.001314	0.013137
3-Sep-2033	7.188763	8.643070	13.383800	2.086970	30.175888	1.111170	0.012221	0.118134	0.033078	0.002530	0.001367	0.093723	0.000409	0.008759	0.004803	0.001322	0.013219
4-Sep-2033	6.811267	8.718110	13.508700	2.102900	30.428863	1.122490	0.012339	0.119296	0.033257	0.002553	0.001375	0.094310	0.000413	0.008824	0.004845	0.001333	0.013332
5-Sep-2033	6.783843	8.746470	13.559700	2.108120	30.521174	1.127540	0.012389	0.119795	0.033275	0.002562	0.001376	0.094439	0.000415	0.008843	0.004862	0.001337	0.013373
6-Sep-2033	7.148980	8.819890	13.681200	2.124120	30.770391	1.138370	0.012503	0.120911	0.033448	0.002584	0.001384	0.095026	0.000419	0.008907	0.004903	0.001348	0.013484
7-Sep-2033	6.907623	8.821610	13.692500	2.122870	30.769539	1.140240	0.012518	0.121070	0.033380	0.002585	0.001381	0.094876	0.000419	0.008900	0.004905	0.001349	0.013485
8-Sep-2033	7.425467	8.904570	13.828400	2.140580	31.049620	1.152310	0.012645	0.122317	0.033576	0.002610	0.001390	0.095516	0.000423	0.008972	0.004952	0.001361	0.013611
9-Sep-2033	7.474167	8.962230	13.922700	2.153540	31.246966	1.160630	0.012733	0.123178	0.033725	0.002627	0.001397	0.096008	0.000426	0.009023	0.004984	0.001370	0.013698
10-Sep-2033	8.337063	8.907910	13.847100	2.138040	31.047500	1.155300	0.012669	0.122572	0.033426	0.002612	0.001384	0.095186	0.000424	0.008958	0.004955	0.001361	0.013613
11-Sep-2033	9.426703	9.002770	14.015600	2.154490	31.352107	1.171740	0.012835	0.124223	0.033575	0.002641	0.001388	0.095612	0.000430	0.009031	0.005011	0.001376	0.013756
12-Sep-2033	10.101267	9.034950	14.071800	2.160580	31.457539	1.177090	0.012889	0.124764	0.033626	0.002651	0.001390	0.095789	0.000432	0.009056	0.005030	0.001380	0.013805
13-Sep-2033	9.095977	9.031050	14.078600	2.155960	31.428775	1.179080	0.012902	0.124918	0.033479	0.002651	0.001383	0.095392	0.000432	0.009038	0.005030	0.001380	0.013797
14-Sep-2033	7.139683	8.930460	13.931500	2.129260	31.067651	1.167830	0.012773	0.123682	0.033001	0.002622	0.001363	0.094062	0.000428	0.008926	0.004975	0.001364	0.013642
15-Sep-2033	5.531247	8.910750	13.908900	2.122320	30.989857	1.166820	0.012756	0.123539	0.032841	0.002617	0.001356	0.093632	0.000427	0.008897	0.004965	0.001361	0.013611
16-Sep-2033	5.573700	8.985260	14.036100	2.137120	31.236854	1.178660	0.012878	0.124744	0.032998	0.002639	0.001363	0.094115	0.000431	0.008959	0.005008	0.001372	0.013723
17-Sep-2033	5.078800	9.050310	14.145400	2.150520	31.454465	1.188670	0.012982	0.125769	0.033153	0.002659	0.001369	0.094581	0.000435	0.009014	0.005046	0.001382	0.013821

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
18-Sep-2033	4.937240	9.107810	14.242400	2.162310	31.646594	1.197580	0.013075	0.126680	0.033285	0.002676	0.001374	0.094981	0.000438	0.009063	0.005079	0.001391	0.013908
19-Sep-2033	4.579670	9.173380	14.352100	2.176020	31.866780	1.207560	0.013179	0.127704	0.033445	0.002696	0.001380	0.095464	0.000441	0.009120	0.005116	0.001401	0.014008
20-Sep-2033	4.507210	9.245120	14.472500	2.190910	32.107232	1.218540	0.013294	0.128830	0.033617	0.002717	0.001387	0.095985	0.000445	0.009181	0.005157	0.001412	0.014116
21-Sep-2033	4.629290	9.327620	14.614000	2.207030	32.379617	1.231810	0.013430	0.130178	0.033787	0.002742	0.001394	0.096498	0.000450	0.009249	0.005205	0.001424	0.014241
22-Sep-2033	3.973080	9.418190	14.769200	2.224600	32.678123	1.246360	0.013580	0.131659	0.033979	0.002770	0.001401	0.097066	0.000455	0.009325	0.005258	0.001438	0.014377
23-Sep-2033	3.888117	9.395090	14.733300	2.219130	32.597917	1.243350	0.013547	0.131339	0.033890	0.002763	0.001397	0.096821	0.000454	0.009301	0.005245	0.001434	0.014342
24-Sep-2033	4.027153	9.401440	14.764100	2.214320	32.593965	1.248280	0.013587	0.131772	0.033715	0.002766	0.001388	0.096299	0.000455	0.009286	0.005252	0.001435	0.014350
25-Sep-2033	4.242477	9.468910	14.885500	2.225490	32.808436	1.260270	0.013707	0.132972	0.033812	0.002786	0.001390	0.096552	0.000459	0.009337	0.005292	0.001445	0.014451
26-Sep-2033	4.097363	9.460120	14.884300	2.219680	32.762562	1.261550	0.013713	0.133055	0.033660	0.002785	0.001383	0.096108	0.000459	0.009315	0.005289	0.001444	0.014436
27-Sep-2033	3.245063	9.430870	14.852400	2.208640	32.644062	1.260410	0.013692	0.132875	0.033417	0.002777	0.001372	0.095413	0.000459	0.009271	0.005275	0.001439	0.014390
28-Sep-2033	2.513503	9.462600	14.914600	2.212520	32.739270	1.267030	0.013755	0.133521	0.033407	0.002787	0.001370	0.095394	0.000461	0.009289	0.005295	0.001444	0.014437
29-Sep-2033	1.612283	9.592120	15.136600	2.237660	33.166208	1.287840	0.013970	0.135638	0.033684	0.002826	0.001380	0.096202	0.000468	0.009397	0.005370	0.001463	0.014633
30-Sep-2033	1.470927	9.654990	15.241100	2.250930	33.377840	1.297290	0.014069	0.136610	0.033847	0.002845	0.001387	0.096686	0.000471	0.009452	0.005406	0.001473	0.014728
1-Oct-2033	1.440607	9.673800	15.273800	2.254580	33.439839	1.300380	0.014100	0.136923	0.033878	0.002850	0.001388	0.096788	0.000472	0.009467	0.005417	0.001476	0.014756
2-Oct-2033	1.530830	9.655030	15.253200	2.247470	33.363691	1.299620	0.014086	0.136806	0.033729	0.002845	0.001381	0.096341	0.000472	0.009439	0.005408	0.001473	0.014727
3-Oct-2033	1.460373	9.689920	15.316600	2.253110	33.474037	1.305940	0.014149	0.137437	0.033772	0.002856	0.001382	0.096451	0.000474	0.009465	0.005429	0.001478	0.014779
4-Oct-2033	1.656343	9.660180	15.273000	2.245240	33.367368	1.302580	0.014111	0.137069	0.033634	0.002847	0.001376	0.096059	0.000473	0.009432	0.005412	0.001473	0.014734
5-Oct-2033	1.996780	9.643760	15.250300	2.240510	33.306889	1.301000	0.014092	0.136889	0.033543	0.002842	0.001372	0.095804	0.000472	0.009412	0.005404	0.001471	0.014708
6-Oct-2033	1.623940	9.605440	15.196600	2.229760	33.166935	1.297150	0.014046	0.136454	0.033334	0.002832	0.001363	0.095240	0.000471	0.009367	0.005383	0.001465	0.014649
7-Oct-2033	0.899606	9.488610	15.014000	2.202050	32.761101	1.281810	0.013878	0.134831	0.032902	0.002797	0.001346	0.094024	0.000465	0.009250	0.005318	0.001447	0.014470
8-Oct-2033	0.504125	9.440860	14.939900	2.190580	32.594636	1.275640	0.013810	0.134176	0.032720	0.002784	0.001338	0.093513	0.000463	0.009202	0.005291	0.001440	0.014397
9-Oct-2033	0.187410	9.414220	14.899100	2.184060	32.501266	1.272310	0.013773	0.133819	0.032610	0.002776	0.001334	0.093216	0.000461	0.009174	0.005277	0.001436	0.014356
10-Oct-2033	0.035636	9.275040	14.680500	2.151340	32.018993	1.253840	0.013572	0.131868	0.032107	0.002735	0.001313	0.091798	0.000455	0.009037	0.005199	0.001414	0.014143
11-Oct-2033	0.059172	9.129090	14.450700	2.117210	31.514009	1.234340	0.013360	0.129812	0.031585	0.002692	0.001292	0.090328	0.000448	0.008893	0.005117	0.001392	0.013920
12-Oct-2033	0.146976	9.065140	14.349700	2.102330	31.293050	1.225740	0.013267	0.128906	0.031360	0.002674	0.001283	0.089691	0.000444	0.008830	0.005081	0.001382	0.013823
13-Oct-2033	0.093809	9.024950	14.286400	2.092940	31.154027	1.220380	0.013209	0.128341	0.031214	0.002662	0.001277	0.089289	0.000443	0.008791	0.005059	0.001376	0.013761
14-Oct-2033	0.124062	8.960540	14.184500	2.078000	30.931672	1.211680	0.013115	0.127426	0.030991	0.002643	0.001268	0.088652	0.000439	0.008728	0.005023	0.001366	0.013663
15-Oct-2033	0.112906	8.978420	14.212800	2.082150	30.993408	1.214090	0.013141	0.127680	0.031053	0.002648	0.001270	0.088829	0.000440	0.008745	0.005033	0.001369	0.013690
16-Oct-2033	0.102710	9.003250	14.252200	2.087900	31.079087	1.217460	0.013177	0.128034	0.031138	0.002656	0.001274	0.089075	0.000441	0.008769	0.005047	0.001373	0.013728
17-Oct-2033	0.097276	9.095140	14.397600	2.109210	31.396291	1.229890	0.013312	0.129341	0.031455	0.002683	0.001287	0.089984	0.000446	0.008859	0.005098	0.001387	0.013868
18-Oct-2033	0.091142	9.152830	14.489000	2.122580	31.595401	1.237690	0.013396	0.130161	0.031654	0.002700	0.001295	0.090554	0.000449	0.008915	0.005131	0.001396	0.013956
19-Oct-2033	0.093608	9.173640	14.521900	2.127410	31.667253	1.240510	0.013427	0.130458	0.031726	0.002706	0.001298	0.090760	0.000450	0.008935	0.005142	0.001399	0.013988
20-Oct-2033	0.097317	9.199430	14.562700	2.133390	31.756277	1.244000	0.013464	0.130824	0.031815	0.002714	0.001301	0.091015	0.000451	0.008960	0.005157	0.001403	0.014027
21-Oct-2033	0.099183	9.244370	14.633900	2.143810	31.911401	1.250070	0.013530	0.131463	0.031971	0.002727	0.001308	0.091460	0.000453	0.009004	0.005182	0.001410	0.014096
22-Oct-2033	0.095165	9.299300	14.720800	2.156550	32.101025	1.257500	0.013610	0.132245	0.032161	0.002743	0.001316	0.092003	0.000456	0.009058	0.005213	0.001418	0.014179
23-Oct-2033	0.094624	9.344900	14.793000	2.167120	32.258415	1.263670	0.013677	0.132893	0.032319	0.002756	0.001322	0.092454	0.000458	0.009102	0.005238	0.001425	0.014249
24-Oct-2033	0.094461	9.394790	14.872000	2.178690	32.430636	1.270420	0.013750	0.133603	0.032491	0.002771	0.001329	0.092948	0.000461	0.009151	0.005266	0.001433	0.014325
25-Oct-2033	0.094496	9.444030	14.950000	2.190110	32.600616	1.277080	0.013822	0.134303	0.032661	0.002786	0.001336	0.093435	0.000463	0.009199	0.005294	0.001440	0.014400
26-Oct-2033	0.094710	9.515660	15.063300	2.206720	32.847876	1.286760	0.013927	0.135322	0.032909	0.002807	0.001346	0.094144	0.000467	0.009268	0.005334	0.001451	0.014509
27-Oct-2033	0.095048	9.557530	15.129600	2.216430	32.992411	1.292420	0.013988	0.135917	0.033054	0.002819	0.001352	0.094558	0.000469	0.009309	0.005357	0.001457	0.014573
28-Oct-2033	0.095311	9.610600	15.213600	2.228740	33.175620	1.299600	0.014066	0.136672	0.033237	0.002835	0.001360	0.095083	0.000471	0.009361	0.005387	0.001465	0.014654
29-Oct-2033	0.095120	9.654940	15.283800	2.239020	33.328670	1.305600	0.014131	0.137302	0.033390	0.002848	0.001366	0.095521	0.000473	0.009404	0.005412	0.001472	0.014722
30-Oct-2033	0.095679	9.717410	15.382700	2.253510	33.544327	1.314040	0.014222	0.138191	0.033607	0.002866	0.001375	0.096140	0.000476	0.009465	0.005447	0.001482	0.014817
31-Oct-2033	0.095849	9.773950	15.472200	2.266620	33.739494	1.321690	0.014305	0.138995	0.033802	0.002883	0.001383	0.096699	0.000479	0.009520	0.005479	0.001490	0.014903
1-Nov-2033	0.096059	9.836600	15.571400	2.281150	33.955766	1.330160	0.014397	0.139886	0.034019	0.002901	0.001392	0.097319	0.000482	0.009581	0.005514	0.001500	0.014999
2-Nov-2033	0.095738	9.850940	15.594100	2.284470	34.005245	1.332100	0.014418	0.140090	0.034068	0.002906	0.001394	0.097461	0.000483	0.009595	0.005522	0.001502	0.015021
3-Nov-2033	0.095823	9.900180	15.672000	2.295890	34.175224	1.338760	0.014490	0.140790	0.034239	0.002920	0.001401	0.097948	0.000485	0.009643	0.005550	0.001510	0.015096
4-Nov-2033	0.095956	9.952000	15.754100	2.307910	34.354117	1.345770	0.014566	0.141527	0.034418	0.002936	0.001408	0.098460	0.000488	0.009693	0.005579	0.001517	0.015175
5-Nov-2033	0.096080	10.000300	15.830600	2.319110	34.520844	1.352300	0.014636	0.142214	0.034585	0.002950	0.001415	0.098938	0.000490	0.009740	0.005606	0.001525	0.015248
6-Nov-2033	0.096183	10.054700	15.916700	2.331730	34.708650	1.359660	0.014716	0.142988	0.034773	0.002966	0.001422	0.099477	0.000493	0.009793	0.005636	0.001533	0.015331
7-Nov-2033	0.096287	10.112700	16.008500	2.345170	34.908822	1.367500	0.014801	0.143813	0.034973	0.002983	0.001431	0.100050	0.000496	0.009850	0.005669	0.001542	0.015420

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
8-Nov-2033	0.096355	10.167700	16.095600	2.357930	35.098703	1.374950	0.014882	0.144595	0.035163	0.002999	0.001438	0.100594	0.000499	0.009903	0.005700	0.001550	0.015504
9-Nov-2033	0.096439	10.224800	16.186000	2.371170	35.295804	1.382670	0.014965	0.145407	0.035360	0.003016	0.001446	0.101159	0.000501	0.009959	0.005732	0.001559	0.015591
10-Nov-2033	0.096519	10.279700	16.272900	2.383900	35.485311	1.390100	0.015045	0.146188	0.035550	0.003032	0.001454	0.101702	0.000504	0.010012	0.005762	0.001567	0.015674
11-Nov-2033	0.096605	10.336600	16.363000	2.397090	35.681707	1.397790	0.015129	0.146997	0.035747	0.003049	0.001462	0.102265	0.000507	0.010068	0.005794	0.001576	0.015761
12-Nov-2033	0.096688	10.398800	16.461400	2.411500	35.896361	1.406200	0.015220	0.147881	0.035961	0.003067	0.001471	0.102880	0.000510	0.010128	0.005829	0.001586	0.015856
13-Nov-2033	0.096794	10.465900	16.567600	2.427070	36.128027	1.415270	0.015318	0.148836	0.036194	0.003087	0.001481	0.103544	0.000513	0.010194	0.005867	0.001596	0.015958
14-Nov-2033	0.096808	10.533200	16.674200	2.442680	36.360357	1.424370	0.015416	0.149793	0.036426	0.003107	0.001490	0.104210	0.000516	0.010259	0.005904	0.001606	0.016061
15-Nov-2033	0.096818	10.612300	16.799400	2.461020	36.633393	1.435070	0.015532	0.150918	0.036700	0.003130	0.001501	0.104992	0.000520	0.010336	0.005949	0.001618	0.016181
16-Nov-2033	0.096675	10.674600	16.898000	2.475460	36.848420	1.443490	0.015623	0.151804	0.036915	0.003149	0.001510	0.105608	0.000523	0.010397	0.005984	0.001628	0.016276
17-Nov-2033	0.096768	10.760100	17.033400	2.495300	37.143615	1.455060	0.015749	0.153020	0.037211	0.003174	0.001522	0.106455	0.000528	0.010480	0.006032	0.001641	0.016407
18-Nov-2033	0.096698	10.810700	17.113500	2.507030	37.318267	1.461900	0.015823	0.153740	0.037386	0.003189	0.001529	0.106955	0.000530	0.010530	0.006060	0.001648	0.016484
19-Nov-2033	0.096755	10.880300	17.223600	2.523170	37.558523	1.471310	0.015924	0.154729	0.037626	0.003209	0.001539	0.107644	0.000533	0.010597	0.006099	0.001659	0.016590
20-Nov-2033	0.096698	10.915900	17.280000	2.531430	37.681431	1.476130	0.015977	0.155236	0.037750	0.003220	0.001544	0.107996	0.000535	0.010632	0.006119	0.001664	0.016644
21-Nov-2033	0.096751	10.991700	17.400100	2.549010	37.943098	1.486380	0.016088	0.156314	0.038012	0.003242	0.001555	0.108746	0.000539	0.010706	0.006161	0.001676	0.016760
22-Nov-2033	0.096737	11.037100	17.471900	2.559530	38.099783	1.492520	0.016154	0.156959	0.038169	0.003256	0.001561	0.109195	0.000541	0.010750	0.006187	0.001683	0.016829
23-Nov-2033	0.096767	11.114400	17.594200	2.577460	38.366637	1.502970	0.016267	0.158058	0.038436	0.003278	0.001572	0.109960	0.000545	0.010825	0.006230	0.001695	0.016947
24-Nov-2033	0.096749	11.155400	17.659100	2.586960	38.508135	1.508510	0.016327	0.158641	0.038578	0.003291	0.001578	0.110365	0.000547	0.010865	0.006253	0.001701	0.017009
25-Nov-2033	0.096789	11.148600	17.648400	2.585390	38.484690	1.507590	0.016317	0.158545	0.038554	0.003289	0.001577	0.110298	0.000547	0.010859	0.006249	0.001700	0.016999
26-Nov-2033	0.096764	11.192900	17.718500	2.595660	38.637599	1.513590	0.016382	0.159175	0.038707	0.003302	0.001583	0.110737	0.000549	0.010902	0.006274	0.001707	0.017067
27-Nov-2033	0.096794	11.256600	17.819300	2.610440	38.857522	1.522200	0.016475	0.160081	0.038928	0.003320	0.001592	0.111367	0.000552	0.010964	0.006310	0.001716	0.017164
28-Nov-2033	0.096823	11.324000	17.926000	2.626070	39.090184	1.531310	0.016574	0.161039	0.039161	0.003340	0.001602	0.112034	0.000555	0.011030	0.006348	0.001727	0.017267
29-Nov-2033	0.096867	11.399800	18.046000	2.643640	39.351810	1.541560	0.016685	0.162117	0.039423	0.003363	0.001613	0.112783	0.000559	0.011103	0.006390	0.001738	0.017382
30-Nov-2033	0.096854	11.461000	18.142900	2.657830	39.563061	1.549840	0.016774	0.162987	0.039635	0.003381	0.001621	0.113389	0.000562	0.011163	0.006424	0.001748	0.017475
1-Dec-2033	0.096840	11.510300	18.220900	2.669260	39.733232	1.556500	0.016847	0.163688	0.039805	0.003395	0.001628	0.113876	0.000564	0.011211	0.006452	0.001755	0.017551
2-Dec-2033	0.096847	11.574600	18.322800	2.684190	39.955271	1.565210	0.016941	0.164604	0.040028	0.003414	0.001637	0.114514	0.000568	0.011274	0.006488	0.001765	0.017649
3-Dec-2033	0.096849	11.634900	18.418300	2.698180	40.163451	1.573360	0.017029	0.165461	0.040236	0.003432	0.001646	0.115110	0.000571	0.011332	0.006522	0.001774	0.017741
4-Dec-2033	0.096833	11.692800	18.509800	2.711590	40.363249	1.581180	0.017114	0.166284	0.040436	0.003449	0.001654	0.115682	0.000573	0.011389	0.006554	0.001783	0.017829
5-Dec-2033	0.096822	11.764600	18.623400	2.728230	40.611057	1.590890	0.017219	0.167305	0.040684	0.003470	0.001664	0.116392	0.000577	0.011459	0.006595	0.001794	0.017938
6-Dec-2033	0.096819	11.802900	18.684200	2.737130	40.743343	1.596080	0.017275	0.167850	0.040817	0.003482	0.001670	0.116772	0.000579	0.011496	0.006616	0.001800	0.017997
7-Dec-2033	0.096817	11.866400	18.784700	2.751850	40.962519	1.604660	0.017368	0.168753	0.041037	0.003500	0.001679	0.117400	0.000582	0.011558	0.006652	0.001809	0.018094
8-Dec-2033	0.096816	11.931300	18.887400	2.766900	41.186550	1.613440	0.017463	0.169676	0.041261	0.003519	0.001688	0.118042	0.000585	0.011621	0.006688	0.001819	0.018193
9-Dec-2033	0.096816	11.997100	18.991600	2.782160	41.413694	1.622340	0.017559	0.170612	0.041489	0.003539	0.001697	0.118693	0.000588	0.011685	0.006725	0.001829	0.018293
10-Dec-2033	0.096815	12.055900	19.084600	2.795790	41.616646	1.630280	0.017645	0.171447	0.041692	0.003556	0.001706	0.119274	0.000591	0.011742	0.006758	0.001838	0.018382
11-Dec-2033	0.096815	12.115700	19.179400	2.809670	41.823124	1.638380	0.017733	0.172299	0.041899	0.003574	0.001714	0.119867	0.000594	0.011801	0.006792	0.001847	0.018474
12-Dec-2033	0.096815	12.194800	19.304500	2.828000	42.096120	1.649070	0.017848	0.173423	0.042172	0.003597	0.001725	0.120649	0.000598	0.011878	0.006836	0.001859	0.018594
13-Dec-2033	0.096814	12.254300	19.398800	2.841810	42.301561	1.657120	0.017936	0.174270	0.042378	0.003615	0.001734	0.121238	0.000601	0.011936	0.006869	0.001869	0.018685
14-Dec-2033	0.096814	12.331700	19.521200	2.859750	42.568705	1.667580	0.018049	0.175370	0.042646	0.003638	0.001745	0.122003	0.000605	0.012011	0.006913	0.001880	0.018803
15-Dec-2033	0.096815	12.393300	19.618800	2.874040	42.781367	1.675910	0.018139	0.176246	0.042859	0.003656	0.001753	0.122613	0.000608	0.012071	0.006947	0.001890	0.018897
16-Dec-2033	0.096814	12.433900	19.683000	2.883460	42.921537	1.681400	0.018198	0.176823	0.042999	0.003668	0.001759	0.123015	0.000610	0.012111	0.006970	0.001896	0.018959
17-Dec-2033	0.096814	12.500600	19.788600	2.898920	43.151751	1.690420	0.018296	0.177771	0.043230	0.003687	0.001768	0.123674	0.000613	0.012176	0.007007	0.001906	0.019061
18-Dec-2033	0.096814	12.586200	19.924100	2.918770	43.447236	1.702000	0.018421	0.178989	0.043526	0.003713	0.001781	0.124521	0.000617	0.012259	0.007055	0.001919	0.019191
19-Dec-2033	0.096814	12.636100	20.003000	2.930340	43.619482	1.708740	0.018494	0.179698	0.043698	0.003727	0.001788	0.125014	0.000620	0.012308	0.007083	0.001927	0.019267
20-Dec-2033	0.096814	12.690800	20.089700	2.943020	43.808284	1.716140	0.018574	0.180476	0.043887	0.003743	0.001795	0.125556	0.000622	0.012361	0.007114	0.001935	0.019351
21-Dec-2033	0.096814	12.754800	20.191000	2.957880	44.029285	1.724800	0.018668	0.181387	0.044109	0.003762	0.001804	0.126189	0.000625	0.012423	0.007150	0.001945	0.019448
22-Dec-2033	0.096814	12.841900	20.328900	2.978080	44.329958	1.736580	0.018796	0.182626	0.044410	0.003788	0.001817	0.127051	0.000630	0.012508	0.007199	0.001958	0.019581
23-Dec-2033	0.096814	12.899600	20.420300	2.991460	44.529133	1.744380	0.018880	0.183446	0.044610	0.003805	0.001825	0.127622	0.000633	0.012564	0.007231	0.001967	0.019669
24-Dec-2033	0.096814	12.948800	20.498100	3.002860	44.698931	1.751030	0.018952	0.184146	0.044780	0.003820	0.001832	0.128108	0.000635	0.012612	0.007258	0.001974	0.019744
25-Dec-2033	0.096814	13.023700	20.616800	3.020240	44.957527	1.761170	0.019062	0.185212	0.045039	0.003842	0.001842	0.128850	0.000639	0.012685	0.007300	0.001986	0.019858
26-Dec-2033	0.096814	13.109600	20.752700	3.040150	45.254009	1.772780	0.019187	0.186433	0.045336	0.003867	0.001855	0.129700	0.000643	0.012769	0.007349	0.001999	0.019989
27-Dec-2033	0.096814	13.173000	20.853100	3.054860	45.472894	1.781350	0.019280	0.187334	0.045555	0.003886	0.001864	0.130327	0.000646	0.012831	0.007384	0.002009	0.020086
28-Dec-2033	0.096814	13.227800	20.939800	3.067570	45.662070	1.788760	0.019360	0.188114	0.045745	0.003902	0.001871	0.130869	0.000649	0.012884	0.007415	0.002017	0.020169

pH	-	-	-	-	-	-	-	7.2	6	-	-	-	-	-	7.2	-	-
Dissolved organic carbon (mg/L)	-	-	-	-	-	-	-	-	3.5	-	-	-	-	-	3.5	-	-

	Conventional	Major ions	Major ions	Major ions		Nutrients	Nutrients	Nutrients	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Total metals	Others	Others
	Water temperature	Calcium	Chloride	Magnesium	Hardness	Nitrate, as N	Nitrite, as N	Total ammonia, as N	Aluminum	Arsenic	Copper	Iron	Lead	Nickel	Zinc	Free Cyanide	Total Cyanide
Date	°C	mg/L	mg/L	mg/L	mg/L as $CaCO_3$	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
29-Dec-2033	0.096814	13.309500	21.069100	3.086510	45.944070	1.799810	0.019480	0.189275	0.046027	0.003926	0.001883	0.131677	0.000653	0.012963	0.007461	0.002029	0.020294
30-Dec-2033	0.096814	13.416400	21.238300	3.111290	46.313043	1.814260	0.019636	0.190795	0.046397	0.003957	0.001898	0.132734	0.000658	0.013068	0.007521	0.002046	0.020457
31-Dec-2033	0.096814	13.460600	21.308300	3.121550	46.465661	1.820240	0.019701	0.191424	0.046550	0.003971	0.001904	0.133172	0.000660	0.013111	0.007545	0.002052	0.020524
1-Jan-2034	0.096814	13.518200	21.399500	3.134900	46.664464	1.828030	0.019785	0.192243	0.046749	0.003988	0.001912	0.133742	0.000663	0.013167	0.007578	0.002061	0.020612