

ANNUAL REPORT FOR THE MUNICIPALITY OF CORAL HARBOUR

YEAR BEING REPORTED: 2024

The following information is compiled pursuant to the requirements of Part B, Item 1 of Water Licence No. **3AM-COR2232** issued to the **Municipality of Coral Harbour**.

Below are tabular summaries of all data generated under the “Monitoring Program”.

- I. Monthly and annual quantities of freshwater obtained by daily logs for all freshwater sources and estimated sewage waste discharged.

Table 1: Summary of water obtained from three the reservoir and estimated sewage water discharge in m³

Month Reported	Quantity of Water Obtained from all sources (m ³)	Quantity of Sewage Waste Discharged (m ³)
January	3,755.064	Same
February	3,970.444	Same
March	4,035.162	Same
April	5,177.035	Same
May	4,177.035	Same
June	3,118.126	Same
July	3,608.052	Same
August	3,440.110	Same
September	4,140.910	Same
October	3,857.052	Same
November	4,009.270	Same
December	4,160.938	Same
ANNUAL TOTAL	47,449.20	Same

Note: No meter exists to measure the sewage discharge volumes, therefore Sewage discharge volumes are considered equal to the water consumption volumes. No sludge removed from the Sewage Disposal Facility in 2024.

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Water obtained from Post River transferred to the Reservoir in m³

Pumping from Post River began on August 26, 2024 and ended on September 12, 2024. An estimated total of 52,454 m³ over the 18-day period was pumped to the reservoir. The average daily pumping rate was 2,914.11 m³ per day.

Please note that a new flowmeter was ordered to measure the refill volumes; however, it did not arrive on time to be used for this year's refill event. It will be installed next year. The pump performance curve was used to estimate a pumping rate to calculate the daily and total pumping volumes this year. The assumption of the pumping rate as 2000 litres per minute led to the determination that withdrawal volumes were over the daily and annual limit.

As part of the ongoing planning study to upgrade the water supply infrastructure in Coral Harbour:

- A hydrology study is ongoing which will determine the instantaneous flow of Post River. Based on the results of the study, a request for amendment to increase the daily withdrawal limit from Post River may be submitted based on the DFO requirement that “water withdrawal rate remains <10% of actual (instantaneous) flow and does not result in flows <30% of mean annual discharge (MAD).”
- The community's water use demands through to 2050 will be re-evaluated and an expansion of water reservoir will be analyzed to accommodate the volume. An amendment to the annual water withdrawal limit will be submitted to authorize this.

The current capacity of the reservoir is 49,500 m³; the estimated volume of water pumped exceeds this. This discrepancy will be reviewed with the actual pumping numbers in 2025 to determine if an over estimation was made for 2024. The condition of the resupply pipeline will also be assessed in 2025 to determine if a large volume of water is being lost due to cracks/holes in the pipe. Inclusion of resupply pipe replacement is being considered during the planning study.

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- II. A summary of modifications and/or major maintenance work carried out on the Water Supply and Waste Disposal Facilities, including all associated structures and facilities:
- None
- III. A list of unauthorized discharges and summary of follow-up action taken:

Spills: No unauthorized discharges for the infrastructure under licence 3AM-COR2232 occurred in 2024.

Table 2: List of spills reported to the NT-NU Spill Report Line and are listed on the Hazardous Materials Spills Database of Coral Harbour in 2024

Spill	Occurrence Date	Location Description	Product Spilled	Quantity
2024408	October 31, 2024	Unit 191-M	Petroleum – fuel oil (jet A, diesel, turbo A, heat)	1827.00L
2024431	November 29, 2024	Coral Harbour	Petroleum – fuel oil (jet A, diesel, turbo A, heat)	100.00L

- IV. A summary of any abandonment and restoration work completed during the year and an outline of any work anticipated for the next year:
- None
- V. A summary of any studies requested by the Board that relate to waste disposal, water use or reclamation, and a brief description of any future studies planned:
- A feasibility study for new water treatment infrastructure is ongoing. The main components of the study are a hydrological assessment of Post River, an assessment of operational and infrastructure upgrades for the annual reservoir refill, and conceptual designs for the expansion of the water supply reservoir to ensure capacity to meet water demands through to 2050, adding treated water storage tanks, and upgrading the water treatment process. The expected completion of the study is March 2026.
- VI. Any other details on water use or waste disposal requested by the Board by November 1st of the year being reported; and
- None
- VII. updates or revisions to the approved Operation and Maintenance Plans:
- None

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ADDITIONAL INFORMATION THAT THE LICENSEE DEEMS USEFUL:

Water Licensing Sampling Points:



- COR-3: Effluent from Sewage Containment Cell
- COR-4: Station within Wetland
- COR-5: Discharge from Wetland
- COR-6: Run-off from the Solid Waste Disposal Facility
- COR-7: Run-off Below Waste metals area

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FOLLOW-UP REGARDING INSPECTION/COMPLIANCE CONCERNS:

There was no CIRNAC Inspection in 2024.

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APPENDICES

Appendix A: COR-5 Effluent Quality Limits

Appendix B: Monitoring Program Results

Certificate of Analysis – 26-June-2024

Certificate of Analysis – 27-July-2024

Certificate of Analysis – 11- September-2024

Certificate of Analysis – 21-October-2024

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Appendix A

Tabular Summary of Monitoring Data

Parameter	Maximum Concentration of any Grab Sample for COR-5	Units	June 26/27, 2024 COR-5 At Spring Melt	Sep. 11, 2024 COR-5 Middle Season	Oct. 21, 2024 COR-5 Before Freeze-Up
BOD ₅	30	mg/L	17.7	6.5	3.5
Total Suspended Solids	30	mg/L	12.2	97.6	13.6
Fecal Coliform	1x10 ⁴	CFU/100 mL	>2420	-	-
Oil and Grease	No visible sheen	N/A	<5.0 mg/L	<5.0 mg/L	3.1 mg/L
pH	Between 6 and 9	N/A	8.21	8.13	8.03

The effluent quality limit was exceeded for total suspended solids for the grab sample taken during the middle season on September 11. This sample was taken in between a period of very heavy rain which may have caused sediment to be captured in the sample.

Fecal coliforms were not tested on September 11 and October 21 as the laboratory did not send the correct sampling bottles for the test. This will be addressed with the laboratory during the bottle order prior to the 2025 monitoring program for sampling.

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Appendix B

CERTIFICATE OF ANALYSIS

Work Order	: WP2416148		
Client	: Hamlet of Coral Harbour	Laboratory	: ALS Environmental - Winnipeg
Contact	: Darryl Nakoolak	Account Manager	: Craig Riddell
Address	: PO Box 30 Coral Harbour Manitoba Canada X0C 0C0	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg MB Canada R2J 3T4
Telephone	: 867 925 8970	Telephone	: +1 204 255 9720
Project	: ----	Date Samples Received	: 27-Jun-2024 10:10
PO	: ----	Date Analysis Commenced	: 27-Jun-2024
C-O-C number	: ----	Issue Date	: 27-Nov-2024 09:36
Sampler	: ----		
Site	: ----		
Quote number	: 2024 Analytical Testing		
No. of samples received	: 5		
No. of samples analysed	: 5		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Ana Srzic		Organics, Winnipeg, Manitoba
Greg Pokocky	Manager - Inorganics	Inorganics, Waterloo, Ontario
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Lee McTavish		Metals, Winnipeg, Manitoba
Livia Ciolan	Analyst	Organics, Winnipeg, Manitoba
Michelle Michalchuk	Analyst	Organics, Winnipeg, Manitoba
Nik Perkio	Senior Analyst	Inorganics, Waterloo, Ontario
Oleksandr Busel		Metals, Winnipeg, Manitoba
Oleksandr Busel		Inorganics, Winnipeg, Manitoba
Rhovee Guevarra		Inorganics, Winnipeg, Manitoba
Ryan Velasco		Organics, Winnipeg, Manitoba

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	Description
mg/L	milligrams per litre
pH units	pH units
µS/cm	microsiemens per centimetre
µg/L	micrograms per litre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	Description
DLHC	Detection Limit Raised: Dilution required due to high concentration of test analyte(s).
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).





Analytical Results

Sub-Matrix: Effluent

(Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time						26-Jun-2024 10:30	26-Jun-2024 10:45	26-Jun-2024 11:00	26-Jun-2024 10:15	26-Jun-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2416148-001	WP2416148-002	WP2416148-003	WP2416148-004	WP2416148-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Alkalinity, bicarbonate (as CaCO ₃)	----	E290/WP	1.0	mg/L	206	175	202	153	106	
Alkalinity, carbonate (as CaCO ₃)	----	E290/WP	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Alkalinity, hydroxide (as CaCO ₃)	----	E290/WP	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Alkalinity, phenolphthalein (as CaCO ₃)	----	E290/WP	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Alkalinity, total (as CaCO ₃)	----	E290/WP	1.0	mg/L	206	175	202	153	106	
Conductivity	----	E100/WP	2.0	µS/cm	547	499	513	314	316	
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/WP	0.50	mg/L	69.6	174	116	148	153	
pH	----	E108/WP	0.10	pH units	7.70	7.92	8.21	8.16	8.12	
Solids, total suspended [TSS]	----	E160/WP	3.0	mg/L	36.0	171	12.2	13.4	3.2	
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/WP	0.0050	mg/L	36.9	0.612	19.6	0.0126	0.0641	
Chloride	16887-00-6	E235.Cl/WP	0.50	mg/L	27.6	30.6	28.6	6.90	1.69	
Nitrate (as N)	14797-55-8	E235.NO3/WP	0.020	mg/L	<0.020	4.45	0.596	<0.020	0.098	
Nitrate + Nitrite (as N)	----	EC235.N+N/W P	0.0050	mg/L	<0.0224	4.58	0.631	<0.0224	0.0980	
Nitrite (as N)	14797-65-0	E235.NO2/WP	0.010	mg/L	<0.010	0.132	0.035	<0.010	<0.010	
Phosphorus, total	7723-14-0	E372/WP	0.020	mg/L	5.60	1.67	3.69	0.259	0.087	
Sulfate (as SO ₄)	14808-79-8	E235.SO4/WP	0.30	mg/L	6.77	13.2	7.01	5.84	55.7	
Cyanides										
Cyanide, strong acid dissociable (Total)	----	E333/WT	0.0050	mg/L	<0.100 ^{DLM}	<0.0050	<0.0050	<0.0050	<0.0050	
Organic / Inorganic Carbon										
Carbon, total organic [TOC]	----	E355-L/WP	0.50	mg/L	82.0	24.0	26.2	14.9	10.1	



Analytical Results

Sub-Matrix: Effluent

(Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time						26-Jun-2024 10:30	26-Jun-2024 10:45	26-Jun-2024 11:00	26-Jun-2024 10:15	26-Jun-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2416148-001	WP2416148-002	WP2416148-003	WP2416148-004	WP2416148-005	
					Result	Result	Result	Result	Result	
Total Metals										
Aluminum, total	7429-90-5	E420/WP	0.0030	mg/L	0.0322	0.0242	0.0124	0.0288	0.0073	
Antimony, total	7440-36-0	E420/WP	0.00010	mg/L	0.00011	0.00016	0.00016	0.00023	0.00111	
Arsenic, total	7440-38-2	E420/WP	0.00010	mg/L	0.00051	0.00216	0.00078	0.00065	0.00029	
Barium, total	7440-39-3	E420/WP	0.00010	mg/L	0.00276	0.00715	0.0109	0.0140	0.00876	
Beryllium, total	7440-41-7	E420/WP	0.000020	mg/L	0.00000054	Not Detected	Not Detected	Not Detected	Not Detected	
Bismuth, total	7440-69-9	E420/WP	0.000050	mg/L	0.000218	0.000110	0.000298	0.0000087	Not Detected	
Boron, total	7440-42-8	E420/WP	0.010	mg/L	0.056	0.111	0.067	0.092	0.133	
Cadmium, total	7440-43-9	E420/WP	0.0000050	mg/L	0.0000339	0.0000547	0.0000742	0.0000022	0.0000432	
Calcium, total	7440-70-2	E420/WP	0.050	mg/L	23.1	62.2	40.7	52.6	52.3	
Cesium, total	7440-46-2	E420/WP	0.000010	mg/L	0.000050	0.0000057	0.000018	Not Detected	0.0000015	
Chromium, total	7440-47-3	E420/WP	0.00050	mg/L	0.00032	0.00023	0.00026	0.00021	0.00018	
Cobalt, total	7440-48-4	E420/WP	0.00010	mg/L	0.00033	0.00073	0.00052	0.00011	0.00016	
Copper, total	7440-50-8	E420/WP	0.00050	mg/L	0.0190	0.00854	0.0171	0.00068	0.00273	
Iron, total	7439-89-6	E420/WP	0.010	mg/L	0.692	0.446	0.143	0.520	0.376	
Lead, total	7439-92-1	E420/WP	0.000050	mg/L	0.000458	0.000200	0.000411	0.000129	0.000175	
Lithium, total	7439-93-2	E420/WP	0.0010	mg/L	0.00038	0.0023	0.0016	0.0032	0.0015	
Magnesium, total	7439-95-4	E420/WP	0.0050	mg/L	2.90	4.48	3.59	3.98	5.43	
Manganese, total	7439-96-5	E420/WP	0.00010	mg/L	0.0362	0.0805	0.0353	0.0930	0.0261	
Mercury, total	7439-97-6	E508/WP	0.0000050	mg/L	0.0000110	0.0000065	0.0000089	<0.0000050	<0.0000050	
Molybdenum, total	7439-98-7	E420/WP	0.000050	mg/L	0.000112	0.000447	0.000320	0.000084	0.00158	
Nickel, total	7440-02-0	E420/WP	0.00050	mg/L	0.00142	0.00229	0.00172	0.00046	0.00103	



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					Client sampling date / time	26-Jun-2024 10:30	26-Jun-2024 10:45	26-Jun-2024 11:00	26-Jun-2024 10:15	26-Jun-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2416148-001	WP2416148-002	WP2416148-003	WP2416148-004	WP2416148-005	
					Result	Result	Result	Result	Result	Result
Total Metals										
Phosphorus, total	7723-14-0	E420/WP	0.050	mg/L	5.29	1.77	3.93	0.187	0.056	
Potassium, total	7440-09-7	E420/WP	0.050	mg/L	12.2	12.4	11.6	3.70	2.00	
Rubidium, total	7440-17-7	E420/WP	0.00020	mg/L	0.0153	0.00900	0.0102	0.00231	0.00197	
Selenium, total	7782-49-2	E420/WP	0.000050	mg/L	0.000238	0.000183	0.000159	0.000048	0.000052	
Silicon, total	7440-21-3	E420/WP	0.10	mg/L	0.90	1.37	1.16	0.23	1.18	
Silver, total	7440-22-4	E420/WP	0.000010	mg/L	0.0000075	0.000043	0.000055	0.0000057	0.000010	
Sodium, total	7440-23-5	E420/WP	0.050	mg/L	22.9	29.4	24.6	6.83	2.17	
Strontium, total	7440-24-6	E420/WP	0.00020	mg/L	0.0359	0.107	0.0634	0.120	0.275	
Sulfur, total	7704-34-9	E420/WP	0.50	mg/L	3.71	5.69	3.88	2.70	20.0	
Tellurium, total	13494-80-9	E420/WP	0.00020	mg/L	Not Detected	0.000052	Not Detected	0.000023	0.000059	
Thallium, total	7440-28-0	E420/WP	0.000010	mg/L	0.0000020	0.0000037	0.000010	Not Detected	Not Detected	
Thorium, total	7440-29-1	E420/WP	0.00010	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
Tin, total	7440-31-5	E420/WP	0.00010	mg/L	0.00044	0.00020	0.00022	0.00010	0.000044	
Titanium, total	7440-32-6	E420/WP	0.00030	mg/L	0.00077	0.00060	0.00040	0.00030	0.00027	
Tungsten, total	7440-33-7	E420/WP	0.00010	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	0.000030	
Uranium, total	7440-61-1	E420/WP	0.000010	mg/L	0.000038	0.000117	0.000075	0.000042	0.000134	
Vanadium, total	7440-62-2	E420/WP	0.00050	mg/L	0.00040	0.00074	0.00036	0.00050	0.00032	
Zinc, total	7440-66-6	E420/WP	0.0030	mg/L	0.0243	0.0067	0.0122	0.0020	0.138	
Zirconium, total	7440-67-7	E420/WP	0.00020	mg/L	0.00011	0.000068	0.000097	0.000052	0.000036	
Aggregate Organics										
Biochemical oxygen demand [BOD]	----	E550/WP	2.0	mg/L	96.6	11.5	17.7	9.2	3.5	



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Sub-Matrix: Effluent

(Matrix: Water)

Client sample ID					COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time					26-Jun-2024 10:30	26-Jun-2024 10:45	26-Jun-2024 11:00	26-Jun-2024 10:15	26-Jun-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2416148-001	WP2416148-002	WP2416148-003	WP2416148-004	WP2416148-005
					Result	Result	Result	Result	Result
Aggregate Organics									
Carbonaceous biochemical oxygen demand [CBOD]	----	E555/WP	2.0	mg/L	81.2	6.2	13.7	7.6	2.9
Oil & grease (gravimetric)	----	E567/WP	5.0	mg/L	14.5	6.2	<5.0	<5.0	<5.0
Phenols, total (4AAP)	----	E562/WT	0.0010	mg/L	0.220 ^{DLHC}	0.0016	0.0018	<0.0010	<0.0010
Volatile Organic Compounds									
Benzene	71-43-2	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050
Ethylbenzene	100-41-4	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050
Toluene	108-88-3	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050
Xylene, m+p-	179601-23-1	E611A/WP	0.00040	mg/L	----	----	----	<0.00040	<0.00040
Xylene, o-	95-47-6	E611A/WP	0.00030	mg/L	----	----	----	<0.00030	<0.00030
Xylenes, total	1330-20-7	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050
BTEX, total	----	E611A/WP	0.0010	mg/L	----	----	----	<0.0010	<0.0010
Hydrocarbons									
F1 (C6-C10)	----	E581.F1/WP	0.10	mg/L	----	----	----	<0.10	<0.10
F1-BTEX	----	EC580/WP	0.100	mg/L	----	----	----	<0.100	<0.100
F2 (C10-C16)	----	E601/WP	0.10	mg/L	----	----	----	<0.10	<0.10
F3 (C16-C34)	----	E601/WP	0.25	mg/L	----	----	----	0.27	<0.25
F4 (C34-C50)	----	E601/WP	0.25	mg/L	----	----	----	<0.25	<0.25
TEH (C10-C50)	n/a	E601/WP	0.40	mg/L	----	----	----	<0.40	<0.40
TEH (C16-C50)	----	E601/WP	0.40	mg/L	----	----	----	<0.40	<0.40
Hydrocarbons Surrogates									
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/WP	1.0	%	----	----	----	84.8	79.9



Analytical Results

Sub-Matrix: Effluent

(Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time						26-Jun-2024 10:30	26-Jun-2024 10:45	26-Jun-2024 11:00	26-Jun-2024 10:15	26-Jun-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2416148-001	WP2416148-002	WP2416148-003	WP2416148-004	WP2416148-005	
					Result	Result	Result	Result	Result	
Hydrocarbons Surrogates										
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%	----	----	----	81.2	72.9	
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	1.0	%	----	----	----	91.6	87.8	
Difluorobenzene, 1,4-	540-36-3	E611A/WP	1.0	%	----	----	----	102	98.6	
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Acenaphthylene	208-96-8	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Acridine	260-94-6	E641A/WT	0.010	µg/L	----	----	----	<0.012 ^{DLM}	<0.012 ^{DLM}	
Anthracene	120-12-7	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Benz(a)anthracene	56-55-3	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Benzo(a)pyrene	50-32-8	E641A/WT	0.0050	µg/L	----	----	----	<0.0050	<0.0050	
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.015	µg/L	----	----	----	<0.015	<0.015	
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Chrysene	218-01-9	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.0050	µg/L	----	----	----	<0.0050	<0.0050	
Fluoranthene	206-44-0	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Fluorene	86-73-7	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.010	µg/L	----	----	----	<0.010	0.021	



Analytical Results

Sub-Matrix: Effluent

(Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time						26-Jun-2024 10:30	26-Jun-2024 10:45	26-Jun-2024 11:00	26-Jun-2024 10:15	26-Jun-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2416148-001	WP2416148-002	WP2416148-003	WP2416148-004	WP2416148-005	
					Result	Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Methylnaphthalene, 1+2-	----	E641A/WT	0.015	µg/L	----	----	----	<0.015	0.032	
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.010	µg/L	----	----	----	<0.010	0.011	
Naphthalene	91-20-3	E641A/WT	0.050	µg/L	----	----	----	<0.050	<0.050	
Phenanthrene	85-01-8	E641A/WT	0.020	µg/L	----	----	----	<0.020	<0.020	
Pyrene	129-00-0	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Quinoline	91-22-5	E641A/WT	0.050	µg/L	----	----	----	<0.050	<0.250	DLM
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
PAHs, high molecular weight (BC AWQ)	n/a	E641A/WT	0.030	µg/L	----	----	----	<0.030	<0.030	
PAHs, low molecular weight (BC AWQ)	n/a	E641A/WT	0.060	µg/L	----	----	----	<0.060	<0.060	
PAHs, total (CCME sewer 18)	n/a	E641A/WT	0.070	µg/L	----	----	----	<0.070	<0.070	
PAHs, total (EPA 16)	n/a	E641A/WT	0.065	µg/L	----	----	----	<0.065	<0.065	
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%	----	----	----	126	116	
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%	----	----	----	82.8	86.3	
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%	----	----	----	105	85.2	

Please refer to the General Comments section for an explanation of any result qualifiers detected.

CERTIFICATE OF ANALYSIS

Work Order	: WP2416619		
Client	: Hamlet of Coral Harbour	Laboratory	: ALS Environmental - Winnipeg
Contact	: Darryl Nakoolak	Account Manager	: Craig Riddell
Address	: PO Box 30	Address	: 1329 Niakwa Road East, Unit 12
	: Coral Harbour Manitoba Canada X0C 0C0		: Winnipeg MB Canada R2J 3T4
Telephone	: 867 925 8970	Telephone	: +1 204 255 9720
Project	: ----	Date Samples Received	: 04-Jul-2024 11:51
PO	: ----	Date Analysis Commenced	: 04-Jul-2024
C-O-C number	: ----	Issue Date	: 27-Nov-2024 09:36
Sampler	: ----		
Site	: ----		
Quote number	: 2024 Analytical Testing		
No. of samples received	: 5		
No. of samples analysed	: 5		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Jade Soliman		Microbiology, Winnipeg, Manitoba



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	Description
MPN/100mL	most probable number per hundred millilitres

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	Description
PEHR	Parameter exceeded recommended holding time on receipt: Proceeded with analysis as requested.



Analytical Results

Sub-Matrix: Effluent
(Matrix: Water)

Client sample ID					COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time					27-Jun-2024 10:30	27-Jun-2024 10:30	27-Jun-2024 10:30	27-Jun-2024 10:30	27-Jun-2024 10:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2416619-001	WP2416619-002	WP2416619-003	WP2416619-004	WP2416619-005
					Result	Result	Result	Result	Result
Microbiological Tests									
Coliforms, total	----	E010.QT97/W P	1	MPN/100 mL	>2420 ^{PEHR}	>2420 ^{PEHR}	>2420 ^{PEHR}	722 ^{PEHR}	154 ^{PEHR}
Coliforms, Escherichia coli [E. coli]	----	E010.QT97/W P	1	MPN/100 mL	>2420 ^{PEHR}	>2420 ^{PEHR}	387 ^{PEHR}	7 ^{PEHR}	2 ^{PEHR}

Please refer to the General Comments section for an explanation of any result qualifiers detected.

CERTIFICATE OF ANALYSIS

Work Order	: WP2422516		
Client	: Hamlet of Coral Harbour	Laboratory	: ALS Environmental - Winnipeg
Contact	: Darryl Nakoolak	Account Manager	: Craig Riddell
Address	: PO Box 30	Address	: 1329 Niakwa Road East, Unit 12
	: Coral Harbour Manitoba Canada X0C 0C0		: Winnipeg MB Canada R2J 3T4
Telephone	: 867 925 8970	Telephone	: +1 204 255 9720
Project	: ----	Date Samples Received	: 20-Sep-2024 13:45
PO	: ----	Date Analysis Commenced	: 20-Sep-2024
C-O-C number	: ----	Issue Date	: 27-Nov-2024 09:39
Sampler	: ----		
Site	: ----		
Quote number	: 2024 Analytical Testing		
No. of samples received	: 5		
No. of samples analysed	: 5		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Brooke Miller	Laboratory Analyst	Inorganics, Edmonton, Alberta
Gerry Vera	Analyst	Organics, Winnipeg, Manitoba
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Lee McTavish		Metals, Winnipeg, Manitoba
Lee McTavish		Inorganics, Winnipeg, Manitoba
Michelle Michalchuk	Analyst	Organics, Winnipeg, Manitoba
Ryan Velasco		Organics, Winnipeg, Manitoba
Stephanie Okoye		Organics, Winnipeg, Manitoba

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

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Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	Description
mg/L	milligrams per litre
µS/cm	microsiemens per centimetre
pH units	pH units
µg/L	micrograms per litre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).





Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time						11-Sep-2024 10:15	11-Sep-2024 10:25	11-Sep-2024 10:30	11-Sep-2024 10:10	11-Sep-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2422516-001	WP2422516-002	WP2422516-003	WP2422516-004	WP2422516-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Alkalinity, bicarbonate (as CaCO ₃)	----	E290/WP	1.0	mg/L	196	275	150	290	300	
Alkalinity, carbonate (as CaCO ₃)	----	E290/WP	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Alkalinity, hydroxide (as CaCO ₃)	----	E290/WP	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Alkalinity, total (as CaCO ₃)	----	E290/WP	1.0	mg/L	196	275	150	290	300	
Conductivity	----	E100/WP	2.0	µS/cm	567	700	608	694	1400	
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/WP	0.50	mg/L	141	236	181	276	705	
pH	----	E108/WP	0.10	pH units	7.49	7.79	8.03	7.75	7.52	
Solids, total suspended [TSS]	----	E160/WP	3.0	mg/L	144	41.4	13.6	10.8	53.6	
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/WP	0.0050	mg/L	6.11	3.97	0.0635	1.82	0.525	
Chloride	16887-00-6	E235.Cl/WP	0.50	mg/L	51.0	59.4	46.2	43.8	12.5	
Nitrate (as N)	14797-55-8	E235.NO3/WP	0.020	mg/L	<0.020	0.543	0.091	<0.020	0.300	
Nitrite (as N)	14797-65-0	E235.NO2/WP	0.010	mg/L	<0.010	0.011	<0.010	<0.010	<0.050 ^{DLM}	
Phosphorus, total	7723-14-0	E372/WP	0.020	mg/L	5.29	1.29	0.119	0.767	0.186	
Sulfate (as SO ₄)	14808-79-8	E235.SO4/WP	0.30	mg/L	15.2	11.5	92.3	28.1	543	
Total Metals										
Aluminum, total	7429-90-5	E420/WP	0.0030	mg/L	0.0715	0.0199	0.0108	0.0372	0.0192	
Antimony, total	7440-36-0	E420/WP	0.00010	mg/L	0.00013	0.00011	0.00123	0.00082	0.00062	
Arsenic, total	7440-38-2	E420/WP	0.00010	mg/L	0.00058	0.00127	0.00083	0.00155	0.00052	
Barium, total	7440-39-3	E420/WP	0.00010	mg/L	0.00462	0.0167	0.0146	0.0273	0.0302	
Beryllium, total	7440-41-7	E420/WP	0.000020	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	0.0000095	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

Client sample ID					COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time					11-Sep-2024 10:15	11-Sep-2024 10:25	11-Sep-2024 10:30	11-Sep-2024 10:10	11-Sep-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2422516-001	WP2422516-002	WP2422516-003	WP2422516-004	WP2422516-005
					Result	Result	Result	Result	Result
Total Metals									
Bismuth, total	7440-69-9	E420/WP	0.000050	mg/L	0.000087	0.000019	0.0000035	0.000012	0.0000015
Boron, total	7440-42-8	E420/WP	0.010	mg/L	0.207	0.099	0.367	0.414	1.38
Cadmium, total	7440-43-9	E420/WP	0.0000050	mg/L	0.0000173	0.0000212	0.0000085	0.0000236	0.0000188
Calcium, total	7440-70-2	E420/WP	0.050	mg/L	48.4	83.2	53.4	88.3	260
Cesium, total	7440-46-2	E420/WP	0.000010	mg/L	0.000025	0.0000082	0.0000032	0.0000019	0.0000043
Chromium, total	7440-47-3	E420/WP	0.00050	mg/L	0.00025	0.00017	0.00032	0.00049	0.00026
Cobalt, total	7440-48-4	E420/WP	0.00010	mg/L	0.00038	0.00049	0.00077	0.00017	0.00034
Copper, total	7440-50-8	E420/WP	0.00050	mg/L	0.00859	0.00270	0.00229	0.00210	0.00398
Iron, total	7439-89-6	E420/WP	0.010	mg/L	0.685	0.574	0.214	1.19	3.29
Lead, total	7439-92-1	E420/WP	0.000050	mg/L	0.000600	0.000151	0.000174	0.000314	0.000247
Lithium, total	7439-93-2	E420/WP	0.0010	mg/L	0.0021	0.0034	0.0108	0.0186	0.0123
Magnesium, total	7439-95-4	E420/WP	0.0050	mg/L	4.88	6.81	11.5	13.4	13.5
Manganese, total	7439-96-5	E420/WP	0.00010	mg/L	0.0680	0.158	0.0635	0.229	0.110
Mercury, total	7439-97-6	E508/WP	0.0000050	mg/L	<0.0000050	<0.0000050	<0.0000050	<0.0000050	<0.0000050
Molybdenum, total	7439-98-7	E420/WP	0.000050	mg/L	0.000158	0.000129	0.000629	0.000090	0.000738
Nickel, total	7440-02-0	E420/WP	0.00050	mg/L	0.00212	0.00271	0.00354	0.00146	0.00313
Phosphorus, total	7723-14-0	E420/WP	0.050	mg/L	4.12	1.15	0.070	0.228	0.135
Potassium, total	7440-09-7	E420/WP	0.050	mg/L	18.2	14.7	13.2	20.6	9.33
Rubidium, total	7440-17-7	E420/WP	0.00020	mg/L	0.0184	0.00919	0.00560	0.00703	0.00485
Selenium, total	7782-49-2	E420/WP	0.000050	mg/L	0.000511	0.000164	0.000099	0.000170	Not Detected
Silicon, total	7440-21-3	E420/WP	0.10	mg/L	2.86	3.05	1.39	1.86	2.38



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time						11-Sep-2024 10:15	11-Sep-2024 10:25	11-Sep-2024 10:30	11-Sep-2024 10:10	11-Sep-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2422516-001	WP2422516-002	WP2422516-003	WP2422516-004	WP2422516-005	
					Result	Result	Result	Result	Result	
Total Metals										
Silver, total	7440-22-4	E420/WP	0.000010	mg/L	0.000013	0.0000041	0.0000024	0.0000070	0.0000052	
Sodium, total	7440-23-5	E420/WP	0.050	mg/L	42.9	45.7	48.1	39.7	18.8	
Strontium, total	7440-24-6	E420/WP	0.00020	mg/L	0.0747	0.141	0.228	0.322	1.83	
Sulfur, total	7704-34-9	E420/WP	0.50	mg/L	6.14	5.83	33.1	12.8	169	
Tellurium, total	13494-80-9	E420/WP	0.00020	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	0.00018	
Thallium, total	7440-28-0	E420/WP	0.000010	mg/L	0.0000016	0.0000031	0.0000015	Not Detected	0.0000012	
Thorium, total	7440-29-1	E420/WP	0.00010	mg/L	Not Detected	Not Detected	Not Detected	Not Detected	Not Detected	
Tin, total	7440-31-5	E420/WP	0.00010	mg/L	0.00015	0.000066	0.000028	0.00012	0.00014	
Titanium, total	7440-32-6	E420/WP	0.00030	mg/L	0.00024	0.00071	0.00046	0.00060	0.00087	
Tungsten, total	7440-33-7	E420/WP	0.00010	mg/L	0.000017	Not Detected	Not Detected	Not Detected	0.000011	
Uranium, total	7440-61-1	E420/WP	0.000010	mg/L	0.000041	0.000079	0.000368	0.000128	0.000926	
Vanadium, total	7440-62-2	E420/WP	0.00050	mg/L	0.00074	0.00056	0.00079	0.00096	0.00049	
Zinc, total	7440-66-6	E420/WP	0.0030	mg/L	0.0168	0.0085	0.0035	0.0264	0.0325	
Zirconium, total	7440-67-7	E420/WP	0.00020	mg/L	0.000063	0.000087	0.00014	0.00030	0.00012	
Aggregate Organics										
Biochemical oxygen demand [BOD]	----	E550/WP	2.0	mg/L	65.0	7.7	3.5	3.5	3.9	
Carbonaceous biochemical oxygen demand [CBOD]	----	E555/WP	2.0	mg/L	30.7	6.6	<2.0	2.6	2.4	
Oil & grease (gravimetric)	----	E567/WP	5.0	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	
Phenols, total (4AAP)	----	E562/EO	0.0010	mg/L	<0.0040 ^{DLM}	0.0034	0.0040	0.0030	0.0045	
Volatile Organic Compounds										
Benzene	71-43-2	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time						11-Sep-2024 10:15	11-Sep-2024 10:25	11-Sep-2024 10:30	11-Sep-2024 10:10	11-Sep-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2422516-001	WP2422516-002	WP2422516-003	WP2422516-004	WP2422516-005	
					Result	Result	Result	Result	Result	
Volatile Organic Compounds										
Ethylbenzene	100-41-4	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050	
Toluene	108-88-3	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050	
Xylene, m+p-	179601-23-1	E611A/WP	0.00040	mg/L	----	----	----	<0.00040	<0.00040	
Xylene, o-	95-47-6	E611A/WP	0.00030	mg/L	----	----	----	<0.00030	<0.00030	
Xylenes, total	1330-20-7	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050	
BTEX, total	----	E611A/WP	0.0010	mg/L	----	----	----	<0.0010	<0.0010	
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/WP	0.10	mg/L	----	----	----	<0.10	<0.10	
F1-BTEX	----	EC580/WP	0.100	mg/L	----	----	----	<0.100	<0.100	
F2 (C10-C16)	----	E601/WP	0.10	mg/L	----	----	----	<0.10	<0.10	
F3 (C16-C34)	----	E601/WP	0.25	mg/L	----	----	----	0.46	<0.25	
F4 (C34-C50)	----	E601/WP	0.25	mg/L	----	----	----	<0.25	<0.25	
TEH (C10-C50)	n/a	E601/WP	0.40	mg/L	----	----	----	0.46	<0.40	
TEH (C16-C50)	----	E601/WP	0.40	mg/L	----	----	----	0.46	<0.40	
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/WP	1.0	%	----	----	----	119	108	
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%	----	----	----	89.7	89.6	
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	1.0	%	----	----	----	83.3	78.7	
Difluorobenzene, 1,4-	540-36-3	E611A/WP	1.0	%	----	----	----	88.0	87.5	



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
					Client sampling date / time	11-Sep-2024 10:15	11-Sep-2024 10:25	11-Sep-2024 10:30	11-Sep-2024 10:10	11-Sep-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2422516-001	WP2422516-002	WP2422516-003	WP2422516-004	WP2422516-005	
					Result	Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Acenaphthylene	208-96-8	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Acridine	260-94-6	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Anthracene	120-12-7	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Benz(a)anthracene	56-55-3	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Benzo(a)pyrene	50-32-8	E641A/WT	0.0050	µg/L	----	----	----	<0.0050	<0.0050	
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.010	µg/L	----	----	----	<0.050 ^{DLM}	<0.010	
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.015	µg/L	----	----	----	<0.080	<0.015	
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.010	µg/L	----	----	----	<0.063 ^{DLM}	<0.010	
Chrysene	218-01-9	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.0050	µg/L	----	----	----	<0.0050	<0.0050	
Fluoranthene	206-44-0	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Fluorene	86-73-7	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.010	µg/L	----	----	----	<0.010	0.015	
Methylnaphthalene, 1+2-	----	E641A/WT	0.015	µg/L	----	----	----	<0.015	0.015	
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Naphthalene	91-20-3	E641A/WT	0.050	µg/L	----	----	----	<0.050	<0.050	
Phenanthrene	85-01-8	E641A/WT	0.020	µg/L	----	----	----	<0.020	<0.020	
Pyrene	129-00-0	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
					Client sampling date / time	11-Sep-2024 10:15	11-Sep-2024 10:25	11-Sep-2024 10:30	11-Sep-2024 10:10	11-Sep-2024 10:00
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2422516-001	WP2422516-002	WP2422516-003	WP2422516-004	WP2422516-005	
					Result	Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Quinoline	91-22-5	E641A/WT	0.050	µg/L	----	----	----	<0.050	<0.050	
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.010	µg/L	----	----	----	0.012	<0.010	
PAHs, high molecular weight (BC AWQ)	n/a	E641A/WT	0.030	µg/L	----	----	----	<0.084	<0.030	
PAHs, low molecular weight (BC AWQ)	n/a	E641A/WT	0.060	µg/L	----	----	----	<0.060	<0.060	
PAHs, total (CCME sewer 18)	n/a	E641A/WT	0.070	µg/L	----	----	----	<0.103	<0.070	
PAHs, total (EPA 16)	n/a	E641A/WT	0.065	µg/L	----	----	----	<0.102	<0.065	
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%	----	----	----	108	111	
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%	----	----	----	98.7	95.8	
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%	----	----	----	109	105	

Please refer to the General Comments section for an explanation of any result qualifiers detected.

CERTIFICATE OF ANALYSIS

Work Order	: WP2424925		
Client	: Hamlet of Coral Harbour	Laboratory	: ALS Environmental - Winnipeg
Contact	: Darryl Nakoolak	Account Manager	: Craig Riddell
Address	: PO Box 30 Coral Harbour Manitoba Canada X0C 0C0	Address	: 1329 Niakwa Road East, Unit 12 Winnipeg MB Canada R2J 3T4
Telephone	: 867 925 8970	Telephone	: +1 204 255 9720
Project	: ----	Date Samples Received	: 24-Oct-2024 13:42
PO	: ----	Date Analysis Commenced	: 25-Oct-2024
C-O-C number	: ----	Issue Date	: 27-Nov-2024 09:37
Sampler	: ----		
Site	: ----		
Quote number	: 2024 Analytical Testing		
No. of samples received	: 5		
No. of samples analysed	: 5		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Laboratory Department</i>
Brooke Miller	Laboratory Analyst	Inorganics, Edmonton, Alberta
Gerry Vera	Analyst	Organics, Winnipeg, Manitoba
Gianna Wiebe		Organics, Winnipeg, Manitoba
Jeremy Gingras	Supervisor - Semi-Volatile Instrumentation	Organics, Waterloo, Ontario
Lee McTavish		Metals, Winnipeg, Manitoba
Lee McTavish		Inorganics, Winnipeg, Manitoba
Livia Ciolan	Analyst	Organics, Winnipeg, Manitoba
Ryan Velasco		Organics, Winnipeg, Manitoba
William Lake	Analyst	Microbiology, Winnipeg, Manitoba



General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key: CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances.
LOR: Limit of Reporting (detection limit).

Unit	Description
mg/L	milligrams per litre
pH units	pH units
µS/cm	microsiemens per centimetre
MPN/100mL	most probable number per hundred millilitres
µg/L	micrograms per litre

<: less than.

>: greater than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.



Qualifiers

Qualifier	Description
DLM	Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).
PEHR	Parameter exceeded recommended holding time on receipt: Proceeded with analysis as requested.



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time						21-Oct-2024 10:44	21-Oct-2024 10:50	21-Oct-2024 11:00	21-Oct-2024 11:15	21-Oct-2024 11:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2424925-001	WP2424925-002	WP2424925-003	WP2424925-004	WP2424925-005	
					Result	Result	Result	Result	Result	
Physical Tests										
Alkalinity, bicarbonate (as CaCO ₃)	----	E290/WP	1.0	mg/L	290	1320	274	320	389	
Alkalinity, carbonate (as CaCO ₃)	----	E290/WP	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Alkalinity, hydroxide (as CaCO ₃)	----	E290/WP	1.0	mg/L	<1.0	<1.0	<1.0	<1.0	<1.0	
Alkalinity, total (as CaCO ₃)	----	E290/WP	1.0	mg/L	290	1320	274	320	389	
Conductivity	----	E100/WP	2.0	µS/cm	837	1270	1030	798	1620	
Hardness (as CaCO ₃), from total Ca/Mg	----	EC100A/WP	0.50	mg/L	189	788	343	354	869	
pH	----	E108/WP	0.10	pH units	7.85	7.44	8.13	8.03	7.79	
Solids, total suspended [TSS]	----	E160/WP	3.0	mg/L	195	10700	97.6	198	26.6	
Anions and Nutrients										
Ammonia, total (as N)	7664-41-7	E298/WP	0.0050	mg/L	26.1	4.50	0.0404	4.77	1.96	
Chloride	16887-00-6	E235.Cl/WP	0.50	mg/L	59.0	112	108	44.3	16.9	
Nitrate (as N)	14797-55-8	E235.NO3/WP	0.020	mg/L	2.96	<0.100 ^{DLM}	<0.040	<0.040 ^{DLM}	0.532	
Nitrite (as N)	14797-65-0	E235.NO2/WP	0.010	mg/L	0.076	<0.050 ^{DLM}	<0.020 ^{DLM}	<0.020 ^{DLM}	<0.050 ^{DLM}	
Phosphorus, total	7723-14-0	E372/WP	0.020	mg/L	6.90	2.65	0.210	3.25	0.074	
Sulfate (as SO ₄)	14808-79-8	E235.SO4/WP	0.30	mg/L	30.5	8.96	115	60.1	583	
Microbiological Tests										
Coliforms, thermotolerant [fecal]	----	E010.FC/WP	1	MPN/100 mL	<1 ^{PEHR}	<1 ^{PEHR}	<1 ^{PEHR}	<1 ^{PEHR}	<1 ^{PEHR}	
Total Metals										
Aluminum, total	7429-90-5	E420/WP	0.0030	mg/L	0.0651	0.652	0.0540	0.0842	0.0068	
Antimony, total	7440-36-0	E420/WP	0.00010	mg/L	0.00055	0.00015	0.00062	0.00066	0.00110	
Arsenic, total	7440-38-2	E420/WP	0.00010	mg/L	0.00085	0.00239	0.00058	0.00091	0.00058	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
					Client sampling date / time	21-Oct-2024 10:44	21-Oct-2024 10:50	21-Oct-2024 11:00	21-Oct-2024 11:15	21-Oct-2024 11:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2424925-001	WP2424925-002	WP2424925-003	WP2424925-004	WP2424925-005	
					Result	Result	Result	Result	Result	
Total Metals										
Barium, total	7440-39-3	E420/WP	0.00010	mg/L	0.00464	0.0651	0.0304	0.0264	0.0346	
Beryllium, total	7440-41-7	E420/WP	0.000020	mg/L	Not Detected	0.000052	0.0000021	0.0000028	0.0000014	
Bismuth, total	7440-69-9	E420/WP	0.000050	mg/L	0.000688	0.000290	0.0000040	0.000041	0.0000021	
Boron, total	7440-42-8	E420/WP	0.010	mg/L	0.157	0.188	0.350	0.370	1.49	
Cadmium, total	7440-43-9	E420/WP	0.0000050	mg/L	0.0000346	0.000801	0.0000348	0.0000200	0.0000109	
Calcium, total	7440-70-2	E420/WP	0.050	mg/L	65.2	294	110	118	321	
Cesium, total	7440-46-2	E420/WP	0.000010	mg/L	0.000060	0.000045	0.0000085	0.0000033	0.0000044	
Chromium, total	7440-47-3	E420/WP	0.00050	mg/L	0.00065	0.00349	0.00069	0.00064	0.00037	
Cobalt, total	7440-48-4	E420/WP	0.00010	mg/L	0.00056	0.00166	0.00034	0.00023	0.00048	
Copper, total	7440-50-8	E420/WP	0.00050	mg/L	0.0205	0.0235	0.00321	0.00214	0.00127	
Iron, total	7439-89-6	E420/WP	0.010	mg/L	0.519	5.47	0.417	0.726	1.33	
Lead, total	7439-92-1	E420/WP	0.000050	mg/L	0.000621	0.00212	0.000284	0.000446	0.000076	
Lithium, total	7439-93-2	E420/WP	0.0010	mg/L	0.0041	0.0085	0.0133	0.0185	0.0196	
Magnesium, total	7439-95-4	E420/WP	0.0050	mg/L	6.33	13.1	16.7	14.3	16.4	
Manganese, total	7439-96-5	E420/WP	0.00010	mg/L	0.0759	0.366	0.0235	0.0996	0.120	
Mercury, total	7439-97-6	E508/WP	0.0000050	mg/L	0.0000053	<0.0000050	<0.0000050	<0.0000050	<0.0000050	
Molybdenum, total	7439-98-7	E420/WP	0.000050	mg/L	0.000674	0.000705	0.000503	0.000339	0.00114	
Nickel, total	7440-02-0	E420/WP	0.00050	mg/L	0.00202	0.00833	0.00300	0.00170	0.00454	
Phosphorus, total	7723-14-0	E420/WP	0.050	mg/L	7.36	3.58	0.180	0.352	0.086	
Potassium, total	7440-09-7	E420/WP	0.050	mg/L	22.6	21.5	14.0	15.7	11.2	
Rubidium, total	7440-17-7	E420/WP	0.00020	mg/L	0.0263	0.0140	0.00922	0.00690	0.00715	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
Client sampling date / time						21-Oct-2024 10:44	21-Oct-2024 10:50	21-Oct-2024 11:00	21-Oct-2024 11:15	21-Oct-2024 11:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2424925-001	WP2424925-002	WP2424925-003	WP2424925-004	WP2424925-005	
					Result	Result	Result	Result	Result	
Total Metals										
Selenium, total	7782-49-2	E420/WP	0.000050	mg/L	0.000386	0.000468	0.000078	0.000064	0.000061	
Silicon, total	7440-21-3	E420/WP	0.10	mg/L	3.20	7.31	1.04	2.66	5.70	
Silver, total	7440-22-4	E420/WP	0.000010	mg/L	0.000113	0.000176	0.0000034	0.000025	0.0000037	
Sodium, total	7440-23-5	E420/WP	0.050	mg/L	48.8	75.6	80.4	39.2	24.8	
Strontium, total	7440-24-6	E420/WP	0.00020	mg/L	0.0900	0.326	0.290	0.318	2.21	
Sulfur, total	7704-34-9	E420/WP	0.50	mg/L	13.7	11.8	41.8	23.2	209	
Tellurium, total	13494-80-9	E420/WP	0.00020	mg/L	Not Detected	0.000049	0.000028	Not Detected	0.00026	
Thallium, total	7440-28-0	E420/WP	0.000010	mg/L	0.0000037	0.000144	0.0000081	Not Detected	0.0000069	
Thorium, total	7440-29-1	E420/WP	0.00010	mg/L	0.000016	0.00026	0.000035	0.000035	Not Detected	
Tin, total	7440-31-5	E420/WP	0.00010	mg/L	0.00102	0.00033	0.000050	0.00028	0.00014	
Titanium, total	7440-32-6	E420/WP	0.00030	mg/L	0.00246	0.0291	0.00342	0.00346	0.00169	
Tungsten, total	7440-33-7	E420/WP	0.00010	mg/L	0.000035	0.000053	Not Detected	0.000013	Not Detected	
Uranium, total	7440-61-1	E420/WP	0.000010	mg/L	0.000495	0.000338	0.000381	0.000244	0.00135	
Vanadium, total	7440-62-2	E420/WP	0.00050	mg/L	0.00067	0.00420	0.00072	0.00088	0.00042	
Zinc, total	7440-66-6	E420/WP	0.0030	mg/L	0.0398	0.0689	0.0129	0.0148	0.0535	
Zirconium, total	7440-67-7	E420/WP	0.00020	mg/L	0.00027	0.00056	0.00025	0.00048	0.00019	
Aggregate Organics										
Biochemical oxygen demand [BOD]	----	E550/WP	2.0	mg/L	117	<6.0	6.5	11.6	<2.0	
Carbonaceous biochemical oxygen demand [CBOD]	----	E555/WP	2.0	mg/L	68.2	<6.0	<2.0	4.9	<2.0	
Oil & grease (gravimetric)	----	E567/WP	5.0	mg/L	<5.0	<5.0	<5.0	<5.0	<5.0	
Phenols, total (4AAP)	----	E562/EO	0.0010	mg/L	<0.0030 ^{DLM}	0.0010	<0.0010	0.0014	0.0059	



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
					Client sampling date / time	21-Oct-2024 10:44	21-Oct-2024 10:50	21-Oct-2024 11:00	21-Oct-2024 11:15	21-Oct-2024 11:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2424925-001	WP2424925-002	WP2424925-003	WP2424925-004	WP2424925-005	
					Result	Result	Result	Result	Result	Result
Volatile Organic Compounds										
Benzene	71-43-2	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050	
Ethylbenzene	100-41-4	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050	
Toluene	108-88-3	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050	
Xylene, m+p-	179601-23-1	E611A/WP	0.00040	mg/L	----	----	----	<0.00040	<0.00040	
Xylene, o-	95-47-6	E611A/WP	0.00030	mg/L	----	----	----	<0.00030	<0.00030	
Xylenes, total	1330-20-7	E611A/WP	0.00050	mg/L	----	----	----	<0.00050	<0.00050	
BTEX, total	----	E611A/WP	0.0010	mg/L	----	----	----	<0.0010	<0.0010	
Hydrocarbons										
F1 (C6-C10)	----	E581.F1/WP	0.10	mg/L	----	----	----	<0.10	<0.10	
F1-BTEX	----	EC580/WP	0.100	mg/L	----	----	----	<0.100	<0.100	
F2 (C10-C16)	----	E601/WP	0.10	mg/L	----	----	----	0.22	0.24	
F3 (C16-C34)	----	E601/WP	0.25	mg/L	----	----	----	<0.25	<0.25	
F4 (C34-C50)	----	E601/WP	0.25	mg/L	----	----	----	<0.25	<0.25	
TEH (C10-C50)	n/a	E601/WP	0.40	mg/L	----	----	----	<0.40	<0.40	
TEH (C16-C50)	----	E601/WP	0.40	mg/L	----	----	----	<0.40	<0.40	
Hydrocarbons Surrogates										
Bromobenzotrifluoride, 2- (F2-F4 surrogate)	392-83-6	E601/WP	1.0	%	----	----	----	107	103	
Dichlorotoluene, 3,4-	95-75-0	E581.F1/WP	1.0	%	----	----	----	71.8	87.5	
Volatile Organic Compounds Surrogates										
Bromofluorobenzene, 4-	460-00-4	E611A/WP	1.0	%	----	----	----	109	108	
Difluorobenzene, 1,4-	540-36-3	E611A/WP	1.0	%	----	----	----	112	108	



Analytical Results

Sub-Matrix: Water

(Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
					Client sampling date / time	21-Oct-2024 10:44	21-Oct-2024 10:50	21-Oct-2024 11:00	21-Oct-2024 11:15	21-Oct-2024 11:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2424925-001	WP2424925-002	WP2424925-003	WP2424925-004	WP2424925-005	
					Result	Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Acenaphthene	83-32-9	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Acenaphthylene	208-96-8	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Acridine	260-94-6	E641A/WT	0.010	µg/L	----	----	----	<0.040 ^{DLM}	<0.010	
Anthracene	120-12-7	E641A/WT	0.010	µg/L	----	----	----	<0.020 ^{DLM}	<0.010	
Benz(a)anthracene	56-55-3	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Benzo(a)pyrene	50-32-8	E641A/WT	0.0050	µg/L	----	----	----	<0.0050	<0.0050	
Benzo(b+j)fluoranthene	n/a	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Benzo(b+j+k)fluoranthene	n/a	E641A/WT	0.015	µg/L	----	----	----	<0.015	<0.015	
Benzo(g,h,i)perylene	191-24-2	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Benzo(k)fluoranthene	207-08-9	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Chrysene	218-01-9	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Dibenz(a,h)anthracene	53-70-3	E641A/WT	0.0050	µg/L	----	----	----	<0.0050	<0.0050	
Fluoranthene	206-44-0	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Fluorene	86-73-7	E641A/WT	0.010	µg/L	----	----	----	0.011	<0.010	
Indeno(1,2,3-c,d)pyrene	193-39-5	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
Methylnaphthalene, 1-	90-12-0	E641A/WT	0.010	µg/L	----	----	----	0.022	0.018	
Methylnaphthalene, 1+2-	----	E641A/WT	0.015	µg/L	----	----	----	0.045	0.032	
Methylnaphthalene, 2-	91-57-6	E641A/WT	0.010	µg/L	----	----	----	0.023	0.014	
Naphthalene	91-20-3	E641A/WT	0.050	µg/L	----	----	----	<0.050	<0.050	
Phenanthrene	85-01-8	E641A/WT	0.020	µg/L	----	----	----	<0.020	<0.020	
Pyrene	129-00-0	E641A/WT	0.010	µg/L	----	----	----	<0.020 ^{DLM}	<0.010	



Analytical Results

Sub-Matrix: Water
 (Matrix: Water)

					Client sample ID	COR-3	COR-4	COR-5	COR-6	COR-7
					Client sampling date / time	21-Oct-2024 10:44	21-Oct-2024 10:50	21-Oct-2024 11:00	21-Oct-2024 11:15	21-Oct-2024 11:30
Analyte	CAS Number	Method/Lab	LOR	Unit	WP2424925-001	WP2424925-002	WP2424925-003	WP2424925-004	WP2424925-005	
					Result	Result	Result	Result	Result	Result
Polycyclic Aromatic Hydrocarbons										
Quinoline	91-22-5	E641A/WT	0.050	µg/L	----	----	----	<0.100 ^{DLM}	<0.150 ^{DLM}	
B(a)P total potency equivalents [B(a)P TPE]	----	E641A/WT	0.010	µg/L	----	----	----	<0.010	<0.010	
PAHs, high molecular weight (BC AWQ)	n/a	E641A/WT	0.030	µg/L	----	----	----	<0.034	<0.030	
PAHs, low molecular weight (BC AWQ)	n/a	E641A/WT	0.060	µg/L	----	----	----	<0.060	<0.060	
PAHs, total (CCME sewer 18)	n/a	E641A/WT	0.070	µg/L	----	----	----	<0.070	<0.070	
PAHs, total (EPA 16)	n/a	E641A/WT	0.065	µg/L	----	----	----	<0.069	<0.065	
Polycyclic Aromatic Hydrocarbons Surrogates										
Chrysene-d12	1719-03-5	E641A/WT	0.1	%	----	----	----	130	121	
Naphthalene-d8	1146-65-2	E641A/WT	0.1	%	----	----	----	103	82.5	
Phenanthrene-d10	1517-22-2	E641A/WT	0.1	%	----	----	----	98.2	94.8	

Please refer to the General Comments section for an explanation of any result qualifiers detected.