

FINAL

2024 Monitoring of Metal Leaching and Acid Rock Drainage Potential at the Ulu Camp

Ulu Gold Project, Nunavut, Canada
Blue Star Gold Corp



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- Blue Star Gold Corp.: Darren Lindsay, Annabelle Perry, Crystal Mitchell.
- SRK: Kirsty Ketchum, Colton Vessey, Stephen Day.

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Useful Definitions

This list contains definitions of symbols, units, abbreviations, and terminology that may be unfamiliar to the reader.

ARD	Acid rock drainage
BV	Bureau Veritas Labs
CCME	Canadian Council for Ministers of the Environment
CCME PAL-FW	Water quality guidelines for the protection of aquatic life freshwater
DI	De-ionized
DL	Detection limit
DO	Dissolved oxygen
EC	Electrical conductivity
FCSAP	Federal Contaminated Sites Action Plan
ICP-MS	ICP metal scan
ML/ARD	Metal leaching and acid rock drainage
NWB-WL	Nunavut Water Board Water Licence
ORP	Oxidation-reduction potential
PAG	Potentially acid generating
QA/QC	Quality assurance/quality control
STF	Soil treatment facility
TDS	Total dissolved solids
TSS	Total suspended solids

Executive Summary

The Ulu project was historically an advanced gold exploration project with underground development occurring in 1996 and 1997. Waste rock from underground was placed in infrastructure pads which remain on the surface of the site. Studies in 2020 and 2021 have shown that around 90% of the waste rock in the infrastructure pads was classified as potentially acid generating, and the rock is currently acidifying in the pads. Monitoring of the rock and seepage from the pads has been used to understand the current metal leaching and acid rock drainage (ML/ARD) conditions to inform management of the rock as part of site reclamation.

On acidification, the 2024 ML/ARD program indicated that:

- The south side of the ore pad, the waste rock-portal area and the camp pad are not at present generating ARD. Drainage from the camp pad, waste rock-portal area and the south side of the ore pad is currently (in 2024) being neutralized before it exits the pads. However, as carbonates continue to be depleted, the capacity for neutralization declines and ARD is expected to become more widespread without management of the rock.
- ARD is present seasonally (July/August) at the northwest edge of the ore pad and impacting the tundra through sub-surface drainage. Water quality has declined there since 2020; however, acid generating rock in this catchment was removed in August and September 2024.
- Rinse pH testing of grab samples from the northwest edge of the ore pad, as the rock was being excavated for relocation, indicated the rock (pH 2.9-6.4) and underlying tundra soil (pH 3.2-4.5) were dominantly acidic.
- Rinse pH tests on mineralized rock stockpiled above the portal pond had pH 4.6 to 7.9 (average 6.4, n=13). Combined with two results in 2023 of pH 4.3, this indicates that weathering conditions in the mineralized rock are highly variable (acidic and circum-neutral).

The 2024 monitoring program indicates the following regarding element leaching:

- Dissolved arsenic, copper, lead, nickel, and zinc were all below the maximum average and maximum grab sample effluent quality limits in the NWB water license in all the seepage monitored from the ore pad, camp pad, waste rock-portal pad area and landfill.
- Dissolved zinc was close to the NWB-WL effluent quality limit in ore pad seepage from the north edge of the ore pad. Zinc leaching has increased there since 2020. Zinc leaching in seepage at the south edge of the ore pad was lower than in 2023 but still the same order of magnitude as the effluent quality limit and is expected to get worse unless rock in the ore pad is managed.
- Aluminum, cadmium, copper, fluoride, iron, manganese, nickel, selenium, sulphate, and zinc were present in ore pad seepage at concentrations above background and above the water quality guidelines. Concentrations of most of these parameters would be expected to increase if conditions became more acidic.
- Aluminum, arsenic, cadmium, copper, fluoride, sulphate, and zinc concentrations were above background and above the water quality guidelines at the waste rock-portal area.

- Zinc leaching in the landfill area (ULU-15) was an order of magnitude lower in June 2024 than the June 2023 high that was close to the NWB limit. This may be a result of switching to monitoring it upstream of the culvert (rather than downstream).
- Only copper and fluoride were above the water quality guidelines at the camp pad area, which were consistent with background concentrations for these parameters.

The rock at Ulu needs to be managed to prevent further development of ARD and avoid deterioration of water quality. As SRK (2024a) previously recommended, an ML/ARD management plan needs to be developed and implemented. The apparent trajectory of acidification indicates that acidification needs to be arrested this year to avoid impact to the surrounding environment from ARD.

Continued monitoring of seepage is recommended. Additionally, an EM-31 geophysical survey at the north and south side of the ore pad is recommended to identify shallow sub-surface flow paths receiving loadings from mine rock which will support on-site ML/ARD monitoring and future management.

1 Introduction

1.1 Scope of Work

SRK Consulting (Canada) Inc. is providing support to Blue Star Gold Corp. for monitoring of current metal leaching and acid rock drainage (ML/ARD) conditions at the Ulu reclamation project in Nunavut.

Objectives of the ML/ARD program for the 2024 season were to:

- Monitor seepage from infrastructure pads at the Ulu camp to inform understanding of current ML/ARD conditions from rock brought to surface during historical mining activities.
- Monitor rinse pH of relocated mineralized rock at the portal-mine sump area, to assess the development of acidic weathering conditions.
- Report on the results and interpretations related to the development of ML/ARD.
- Provide input for management of problematic rock as part of on-going reclamation activities.

This report summarizes the methods used, results, interpretations, and findings from the 2024 program and is the deliverable for Task 400 of SRK's scope of work dated April 9, 2024. It is intended for use by Blue Star to inform reclamation activities and support reporting on ML/ARD conditions to regulators.

1.2 Regulatory Setting

Under the Nunavut Water Board (NWB) licence (2BM-ULU2030), water quality sampling of runoff and discharge from the Ulu reclamation project is required for compliance and to assess development of acid generating conditions associated with historic mining waste on site. Water quality sampling is only required during months when the site is active. The following ML/ARD-related active monitoring locations are mandated as part of the NWB water licence (NWB-WL): ULU-7, ULU-8, ULU-15, and are reported here.

ULU-4 (sampled as ULU-4a from the portal pond), and ULU-4b, were not required as there was no pumping from underground or discharge from the portal pond, but these were sampled to inform the understanding of seepage downgradient of the portal area, and results are included here.

A number of monitoring locations in the NWB-WL are listed as inactive (ULU-2, ULU-3, ULU-5, ULU-6, ULU-10) and were not sampled in 2024; or are associated with monitoring of lakes (ULU-1, ULU-9, ULU-11) and are reported elsewhere by Blue Star.

All effluent discharge and runoff from site must adhere to the NWB-WL effluent quality limits outlined in Table 1-1.

Table 1-1. Summary of NWB-WL Effluent Quality Limits

Parameter	Maximum Average Concentration (mg/L)	Maximum Concentration of any Grab Sample (mg/L)
Total Arsenic	0.3	0.6
Total Copper	0.3	0.6
Total Lead	0.1	0.2
Total Nickel	0.5	1.0
Total Zinc	0.5	1.0
TSS	15.0	30.0
pH	6.0 to 9.5	6.0 to 9.5
Oil and Grease	No visible sheen	No visible sheen

Source: Compiled in report

1.3 Background Information

1.3.1 Site History and Description

The Ulu project was historically an advanced gold exploration project with underground development occurring in 1996 and 1997. An estimated 126,900 tonnes of waste rock were produced during the underground exploration program (Wolfden 2005). Development waste rock brought to surface was used to construct the camp pad, sections of the road network and to build the ore pad and waste rock-portal pad (Figure 1-1). Estimated volumes in each of the pads from BGC (2003) are 15,000 m³ in the camp pad, 20,000 m³ in the ore pad, and 8,000 m³ in the waste rock-portal pad including approximately half of which is in a waste rock stockpile on the waste rock-portal pad (4,300 m³). The pads are estimated to be around 1 to 3 m thick.

Approximately 2,200 tonnes of mineralized bulk sample were brought to surface and temporarily stored on the ore pad prior to removal off-site (Cowley et al 2015). An estimated 750 m³ of this remained on the ore pad in a stockpile when the project was abandoned, until 2018 when the mineralized rock was subsequently relocated to the portal-mine sump area (Figure 1-1).

Sand and gravel from an esker approximately 6 km south of the Ulu camp was also used as a construction material at the site and overlies waste rock on much of the ore pad and parts of the camp pad. Based on test pit programs, the earliest (central) part of the camp pad is built from esker material with waste rock additions around the margins, as development rock from underground became available.

2020

As part of Blue Star's reclamation activities in 2020, much of the esker sand on the ore pad surface was stockpiled along the centre of the pad to expose the underlying rock. The esker sand had reportedly been up to a meter thick in places (A. Stearman, personal communication, 2020). Waste rock from an area of approximately 6 m by 50 m along the northwest edge of the ore pad (that had not

historically been covered in esker sand) was removed by excavator and stockpiled in preparation for building a new soil treatment facility (STF) on the ore pad. Some of the waste rock was used to fill in low points on the ore pad STF site and was then covered with the stockpiled esker sand (A. Stearman, personal communication, 2021). Some of this waste rock remained stockpiled on the ore pad (Figure 1-1). Both the stockpiled waste rock and residual waste rock on the tundra along the northwest edge of the ore pad were identified as acid generating based on rinse test results (SRK 2021). The stockpiled waste rock was covered with tarps in July 2022 to limit precipitation ingress. The STF has not yet been built pending decisions on management of the rock in and on the ore pad.

2021

During August and September 2021, acid generating waste rock removed from camp 3 (200 m³) and culvert 6 (68 m³) during remediation works was temporarily relocated to the ore pad (SRK 2022a). The waste rock was subsequently covered with tarps, to limit precipitation ingress, pending development of a long-term management plan for the larger volumes of acid generating and potentially acid generating (PAG) rock at the Ulu site.

The broader Ulu property is undergoing exploration by Blue Star, however, infrastructure at the Ulu camp site that is not required for the exploration program is being reclaimed. A landfill facility was constructed to the south of the camp pad during the 2021 season, and stockpiled scrap materials from various locations around the camp pad and on the waste rock-portal pad were removed and relocated to the landfill and covered with esker sand. The landfill was contoured such that drainage at freshet should run-off the frozen esker sand cover and into the compliance monitoring site ULU-15 and subsequently into down-gradient seeps towards East Lake (Figure 3-3).

2024

During August and September 2024, acid generating waste rock from within the northwest edge of the ore pad, and residual waste rock lying on the tundra that was exposed in 2020, was relocated by Blue Star onto the ore pad, as part of initial consolidation works in preparation for covering for interim management. The rock was added to the existing temporary stockpile at the centre of the ore pad.



LEGEND

NOTES

- 1. Drone Imagery: Blue Star Gold Corp - 2023.
- 2. Basemap Imagery: ESRI, Maxar Earthstar Geographics.

REFERENCES

- 1. Coordinate System: NAD 1983 UTM Zone 12N



SRK JOB NO: CAPR003217

LAYOUT: CAPR003217_Ulu_Annual_reports



Ulu

2024 ML/ARD Characterization

Site Layout

Date:	Approved:	Figure:
Mar 2025	KYK	1.1

1.3.2 Geology and Mineralization

The Ulu property lies towards the southern end of the Archean High Lake greenstone belt of the Slave Geological Province. Cowley et al (2015) indicated that the greenstone belt in the Ulu area is dominated by a basaltic sequence of pillow lavas, massive flows and contemporaneous gabbro sills, with lesser turbidites and younger granites. The greenstone belt has been regionally metamorphosed to upper greenschist to amphibolite grade and is intruded by McKenzie diabase dykes.

Waste Rock

SRK has observed that waste rock in the infrastructure pads (representing waste removed during portal and ramp development) is basaltic. Mineralogy on seven test pit samples (SRK 2022b) indicated the dominant minerals are amphibole (26-38%), plagioclase feldspar (21-28%) and quartz (17-22%), with minor pyroxene, chlorite, biotite, K-feldspar, and ilmenite (2-7%). In the samples tested, total sulphide minerals were present at 0.94 to 2.3%, with pyrrhotite (or sometimes pyrite) dominating. Chalcopyrite, sphalerite, arsenopyrite and millerite were present in all samples at less than 0.1% abundance, except for one sample that contained 0.39% sphalerite. Calcite was the dominant carbonate mineral (present at 0.02% to 0.69% in five samples, and 2.1% in one sample), with dolomite also present (0.01 to 0.21%).

The waste rock in the pads is variably oxidized, and ranges from predominantly grey, to predominantly orange/brown with particle surfaces coated in the weathering products of sulphide oxidation. Accordingly, goethite/limonite was present in all the mineralogy samples at 0.60 to 1.30%, jarosite was present in all samples at 0.001 to 0.004%, and gypsum was present in two samples at 0.00003 to 0.11% (SRK 2022b). Additionally, the surface of the infrastructure pads in areas of more strongly oxidized rock, may become coated in prominent secondary minerals as the rock dries out and porewater evaporates during dry periods.

In general, the most oxidized areas of waste rock are near the surface of the pads, where there has historically been no esker sand cover, including around the edges of the pads, although strongly oxidized rock has also been found at depth (down to 2 m; SRK 2024a).

Mineralized Rock Above the Mine Sump

Rock above the portal pond and partially in the mine sump (Figure 1-1) was previously stockpiled on the ore pad from 2006 through 2018 representing the remnants of the bulk mineralized sample removed from underground for processing at Lupin Mine. The rock includes both waste rock and ore that has been somewhat mixed during relocation. The surface rock is predominantly grey metabasalt that appears to contain only rare fresh sulphides and is not strongly oxidized; however, there are common brown oxidized surface coatings comprising up to 30% of the visible surfaces, and grey-brown fines are present just below the surface. There is also material with more abundant fresh sulphides (around 10% abundance, that appears to be predominantly pyrrhotite, and likely also contains pyrite, arsenopyrite, chalcopyrite, sphalerite, and galena, based on ore mineralogy reported in Cowley (et al 2015).

1.3.3 Previous Studies on ML/ARD Potential at Ulu

Previous geochemical studies at Ulu have been documented in SRK (2021, 2022b, 2023, 2024a). The main conclusions from the static characterization work conducted in 2020 and from rinse pH and seepage monitoring conducted in 2020 to 2023 were:

- Around 90% of the waste rock in the infrastructure pads was classified as potentially acid generating (PAG).
- Waste rock was acidifying to some extent in all the pads, particularly in near-surface rock, and down the outer edges of the pads, as shown by rinse pHs of 2.9 to 3.9.
- Most waste rock at depth had circum-neutral pH (6.5 to 8); however, acidic areas existed at depths of up to 2 m within the pads, associated with areas that were not covered in esker sand, and with higher than typical sulphide content.
- Seepage monitoring indicated that the waste rock in the camp pad and waste rock-portal pads was not generating ARD, as contact water seeps and tundra seepage had pHs above 6.5 (from 2020 through 2023). Local acid generation within the waste rock was being neutralized by carbonates before drainage left the pads.
- ARD is apparent seasonally (July/August) at the northwest edge of the ore pad, and impacting the tundra through sub-surface drainage as indicated by pHs down to 4.3 (in 2023) and elevated electrical conductivity, extending for at least 15 m (but less than 25 m) from the north edge of the ore pad. Water quality has declined there since 2020.
- Based on calculations using all the available datasets, delay to onset of ARD estimates for PAG rock not covered in esker sand ranged from less than a year to six years (from 2020) for “worst case” material, depending on the depth, and six to 16 years for material with “typical” ARD potential, again depending on the depth. Where rock had historically been covered in esker sand, the estimated delay to ARD was longer at 11 to 25 years (from 2020).
- Where surface to near-surface rock is underlain by rock with longer delay to ARD onset, the underlying materials may temporarily help maintain circum-neutral pH from acidic surface rock; however, as calcite gradually becomes depleted, acidic conditions are expected to advance and lead to widespread ARD.
- Seepage from the infrastructure pads is impacted by metal leaching at levels above CCME water quality guidelines, which is predominantly being driven by oxidation of pyrrhotite and pyrite (as the dominant sulphides) along with trace chalcopyrite, sphalerite, arsenopyrite and millerite; resulting in widespread leaching of sulphate and zinc, in addition to leaching of cadmium, iron, manganese, nickel, and selenium in ore pad seepage, and leaching of arsenic from mineralized rock.
- Metal leaching was at levels below the Nunavut Water Board effluent water quality criteria¹; however, dissolved zinc was within an order of magnitude of the criteria.

¹ Parameters that have criteria are total arsenic, total copper, total lead, total nickel, and total zinc.

- Trace element leaching is expected to increase if pH declines further or if local acidic conditions within the pads become more widespread.

1.3.4 ML/ARD Monitoring Programs

Based on the findings and recommendations provided in SRK (2021, 2022b), a comprehensive seepage monitoring program was initiated by SRK and Blue Star in June 2021 so that changing pH conditions are identified. The program was conducted as part of Blue Star's reclamation research and was formalized in a seepage monitoring protocol (SRK 2022c). Comprehensive seepage monitoring has been conducted at Ulu since 2021 during each open water season, as per the monitoring protocol. Seepage monitoring in 2020 was conducted for Blue Star by Peridotite 932 Consulting, with subsequent monitoring conducted by Blue Star with training and guidance provided by SRK.

In 2024 the monitoring program was reduced to a few key seeps as per recommendations provided in SRK (2024a). This was recommended due to the substantial ML/ARD monitoring dataset that had been acquired to feed into ML/ARD management planning. The sites for on-going monitoring were based on providing coverage of the different areas that generate drainage and the likelihood that flow would continue for the summer. The main ore pad seeps were included to monitor sub-surface drainage. The locations were in addition to the seepage compliance stations that are also monitored. Further information is provided with the methods (Section 3.2).

A rinse pH monitoring program on the waste rock in the infrastructure pads was also recommended in SRK (2022b) to provide an "early warning system" compared to seepage monitoring, providing information on the degree of acidic weathering conditions within the pads. The rinse pH monitoring protocol was formalized as SRK (2022d). Site-wide rinse pH monitoring at the Ulu camp was conducted in 2020 to 2021, and in 2023. Specific areas underwent rinse pH testing in 2024 as documented in subsequent sections of this report.

1.3.5 Climate Conditions and the Effect of Esker Sand Cover on the Infrastructure Pads

Based on climate normals for the nearby Lupin Mine (Environment and Climate Change Canada 2022), the Ulu site has a mean annual air temperature of around -11°C , with a mean air temperature in July at around 12°C . Mean annual snowfall recorded at the Lupin Mine is 138 mm. Mean annual rainfall is 160 mm, mostly occurring in July and August. Freshet occurs during May or June at Ulu, when the majority of flowing water is encountered at site.

The site is within continuous permafrost with an active layer that thaws seasonally. Thermal modelling work conducted by SRK (2022e & 2024b) indicated that exposed (uncovered) waste rock in the infrastructure pads at Ulu annually thaws back to depths exceeding 2.0 m thickness. Thaw duration is at least 4 months per year for rock down to depths of 1.3 m; however, average temperature of thawed rock declines substantially over this depth range (15°C at surface vs 0.9°C at 1.3 m depth). As temperature is a control on reaction rates, degree of sulphide oxidation is expected to decline with depth.

The modelling also showed that an esker sand cover on the pads would be expected to reduce the active layer depth and therefore somewhat limit the portion of seasonally unfrozen waste rock susceptible to oxidation of sulphides. The modelling also indicated that a sand cover reduces the seasonal thaw duration and temperature for the portion of waste rock that does become unfrozen, to an extent that it would somewhat limit geochemical reactions. However, modelling results from SRK (2024b) found that even esker sand covers up to 5.0 m thick cannot completely prevent seasonal thawing under high greenhouse gas emission scenarios (e.g., SSP585) and associated climate change.

The modelling is consistent with observations from the site of the degree of oxidation being lowest in waste rock at depth where there was historically an esker sand cover (i.e., on the central part of the ore pad (Figure 1-1).

In 2022, Blue Star installed ground temperature monitoring instruments in the ore pad at two locations, one with and one without an esker sand cover, to ground truth the modelling work and improve the understanding of the thermal effects of an esker sand cover over the waste rock. Data collection has been on-going since August 2022 and is being used as an input to determine cover thickness requirements in planning for further reclamation, and closure of the site.

2 2024 ML/ARD Monitoring Program

To address regulatory requirements, outlined in Section 1.2, the following components were part of the 2024 ML/ARD program:

- Monitoring of seepage from the at the ore pad, waste rock-portal pad, and infrastructure pad during freshet and through the open water season to improve understanding of ML/ARD and to identify changing conditions.
 - As part of this, samples were also collected from temporary ponds/pools around the portal area in an attempt to identify potential water sources to down-gradient seepage.

Additionally, the following monitoring components were undertaken as part of the 2024 ML/ARD program to assist in assessing water quality and ongoing reclamation management:

- Monitoring of seepage from the ore pad (Seep-01, Seep-05), waste rock-portal pad area (Seep-02, Seep-13), and camp pad (Seep-17) at freshet and through the open water season to improve understanding of ML/ARD and identify changing conditions.
- Monitoring rinse pH of mineralized rock above the portal area to assess the development of acidic weathering conditions. This was to follow up on findings from 2023, where two samples had an acidic rinse pH of 4.3 (SRK 2024a).

3 Methods

SRK Principal Consultant (Geochemistry) Kirsty Ketchum (PGeo) visited the site from May 22 through May 27 for the freshet 2024 seepage monitoring program and rinse pH testing, and to train Blue Star's Environment Technician Annabelle Perry (BSc).

Kirsty Ketchum and Colton Vessey (SRK Consultant, Geochemistry) visited the site from August 21 to August 23 for inspections and discussions with Blue Star including observing the progress of rock excavation from the northwest edge of the ore pad.

3.1 Rinse pH Monitoring

Blue Star's Environment Technician was trained in rinse pH monitoring by SRK on May 24, 2024 (sampling) and May 25 (testing). Rinse pH monitoring was conducted using the methods in the rinse pH monitoring protocol (SRK 2022d). Materials sampled for rinse pH testing included:

- Mineralized rock above (east of) the portal pond (13 samples collected from 7 hand-dug pits).
- Waste rock and tundra soil exposed during remediation works along the north edge of the ore pad (7 samples collected from hand dug pits and one surface composite sample), during waste rock relocation.

Pits were dug by shovel or hand-shovel. Sample locations are shown in Figure 3-1 and Figure 3-2, and sample coordinates and logs are provided in Appendix A and Appendix B, respectively. Sample depths ranged from 0 to 45 cm and are provided with the results in Sections 5.2.5 and 5.3.2. Rinse testing included measurement of rinse pH and rinse conductivity.

PROJECT PATH: C:\Users\MSMITH\SRK Consulting\F5725 Ulu - 1040_AutoCAD\GIS\Projects\CAPR003217_Ulu_2024_MLARD_Characterization\CAPR003229_Ulu_2024_MLARD_Characterization.aprx - L-Fig 3-1_Test Pits



LEGEND

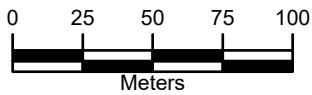
2024 Test Pit Locations

NOTES

1. Drone Imagery: Blue Star Gold Corp - 2023.
2. Basemap Imagery: ESRI, Maxar Earthstar Geographics.

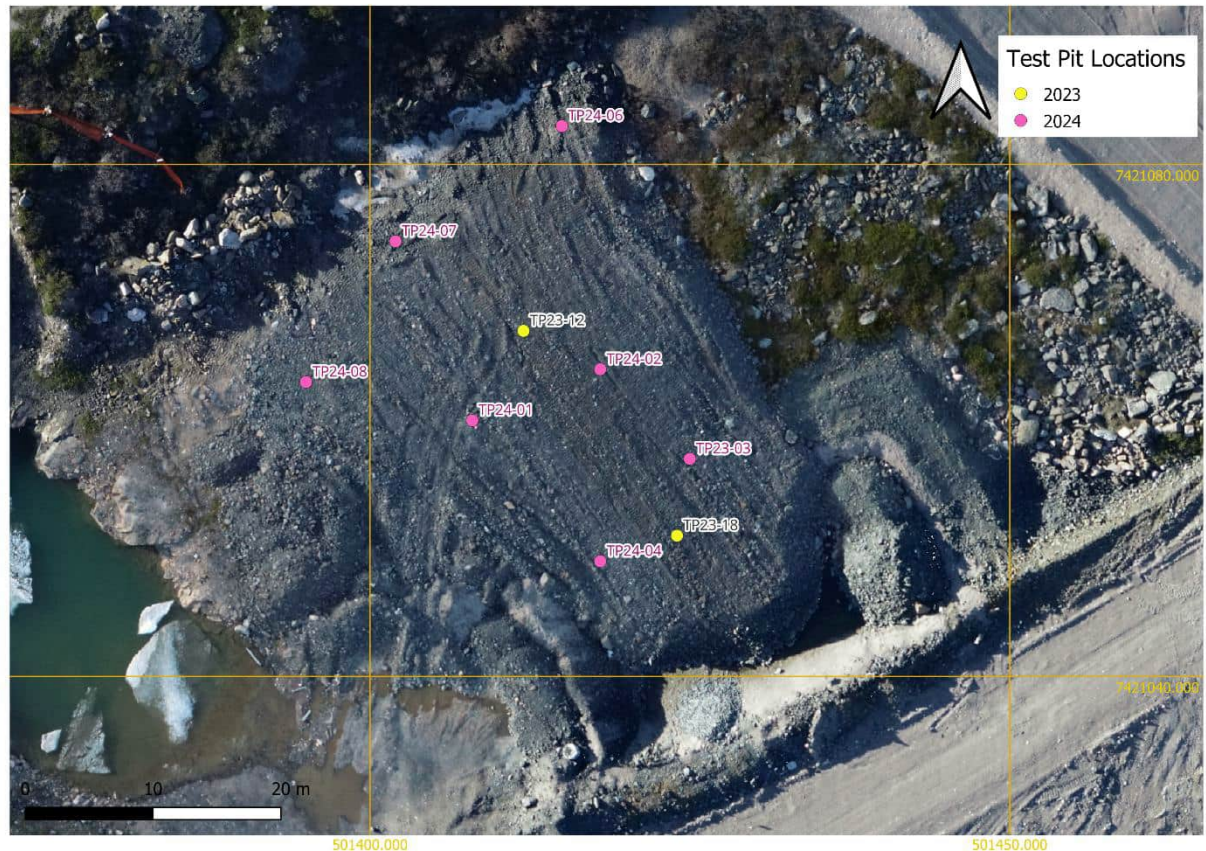
REFERENCES

1. Coordinate System: NAD 1983 UTM Zone 12N



 SRK JOB NO: CAPR003217 LAYOUT: CAPR003217_Ulu_2024_MLARD_Characterization	 Ulu	2024 ML/ARD Characterization		
		2024 Test Pit Locations for Rinse pH Monitoring		
Date: Mar2025	Approved: CV	Figure: 3.1		

Figure 3-2. Location (Zoomed in) of Rinse pH Samples from Mineralized Rock (2023 and 2024).



Source: Blue Star Gold (SRK Consulting\NA CAPR003217 Ulu Gold 2024 Scope of Work - Internal\Task400_ML-ARD Monitoring\400-04_Field support\Ore rinse pH\ Relocated ore_2023&2024_Test_Pit_Locations.png

3.2 Seepage Monitoring

The Ulu seepage monitoring protocol (SRK 2022c) documents the methods to be used for seepage monitoring at Ulu including monitoring frequency, field data to be collected, sample collection procedures (including QC samples) and setting up new monitoring stations.

More recent recommendations to monitoring locations and frequency have been made since the protocol was developed, based on the results and understanding developed from the program. Key changes have been:

- Including monitoring of standing water pools down-gradient of the ore pad (that are thought to represent the surface expression of sub-surface drainage from the ore pad); due to the presence of acidic pH's and elevated sulphate (SRK 2023, 2024a); and

- Reducing the program down from 29 seepage monitoring locations (including the “ULU-“ compliance sites) to key seeps, as identified in SRK (2024a).

Monthly compliance monitoring (during periods of flow, when the site is active) is required by the Nunavut Water Board for seeps that are identified in the water license (ULU-7, ULU-8, and ULU-15).

The seepage monitoring program in 2024, therefore, included the locations and frequencies indicated in Table 3-1. The locations provide coverage of the different areas that generate drainage and include sites with a high likelihood that flow would continue for the summer, in addition to the compliance seepage locations.

Table 3-1. Summary of 2024 Seepage Monitoring Program Locations and Frequencies.

Drainage Area	Monitoring Location	Sampling Frequency	Additional Comments
Ore pad, southwest	Seep-01	At freshet, then monthly. For ULU-8A after significant rainfall (as defined in the protocol), or monthly if there is no significant rainfall.	Typically standing water.
Ore pad, northwest	Seep-05		Typically standing water.
Ore pad, southeast	ULU-8A if flowing, otherwise ULU-8		Compliance station. Weekly checks of ULU-8A during July are recommended to identify if flow is present, associated with thawing of the pad at depth.
Camp pad, north	Seep-17	At freshet, then after significant rainfall (as defined in the protocol), or monthly if there is no significant rainfall.	Weekly checks of the edge of the camp pad upstream of Seep-17 during July/August are recommended to identify if direct flow out of the pad is present, associated with thawing of the pad at depth. If present, then also sample the upstream flowing seepage (at monthly frequency).
Camp pad, south/landfill	ULU-15	At freshet, then after significant rainfall (as defined in the protocol), or monthly if there is no significant rainfall.	Compliance station.
Waste rock portal pad area, east	Seep-02	At freshet, then after significant rainfall (as defined in the protocol), or monthly if there is no significant rainfall.	
Waste rock portal pad area, west	Seep-13		
Waste rock stockpile	ULU-7		Compliance station but flow is rare.

Source: Compiled in report

Key information on all the 2020 to 2024 seepage monitoring stations is tabulated in Table 3-2 including year established, upstream and downstream locations and what the water is thought to represent. Locations are shown in Figure 3-3 and coordinates are provided in Appendix A.

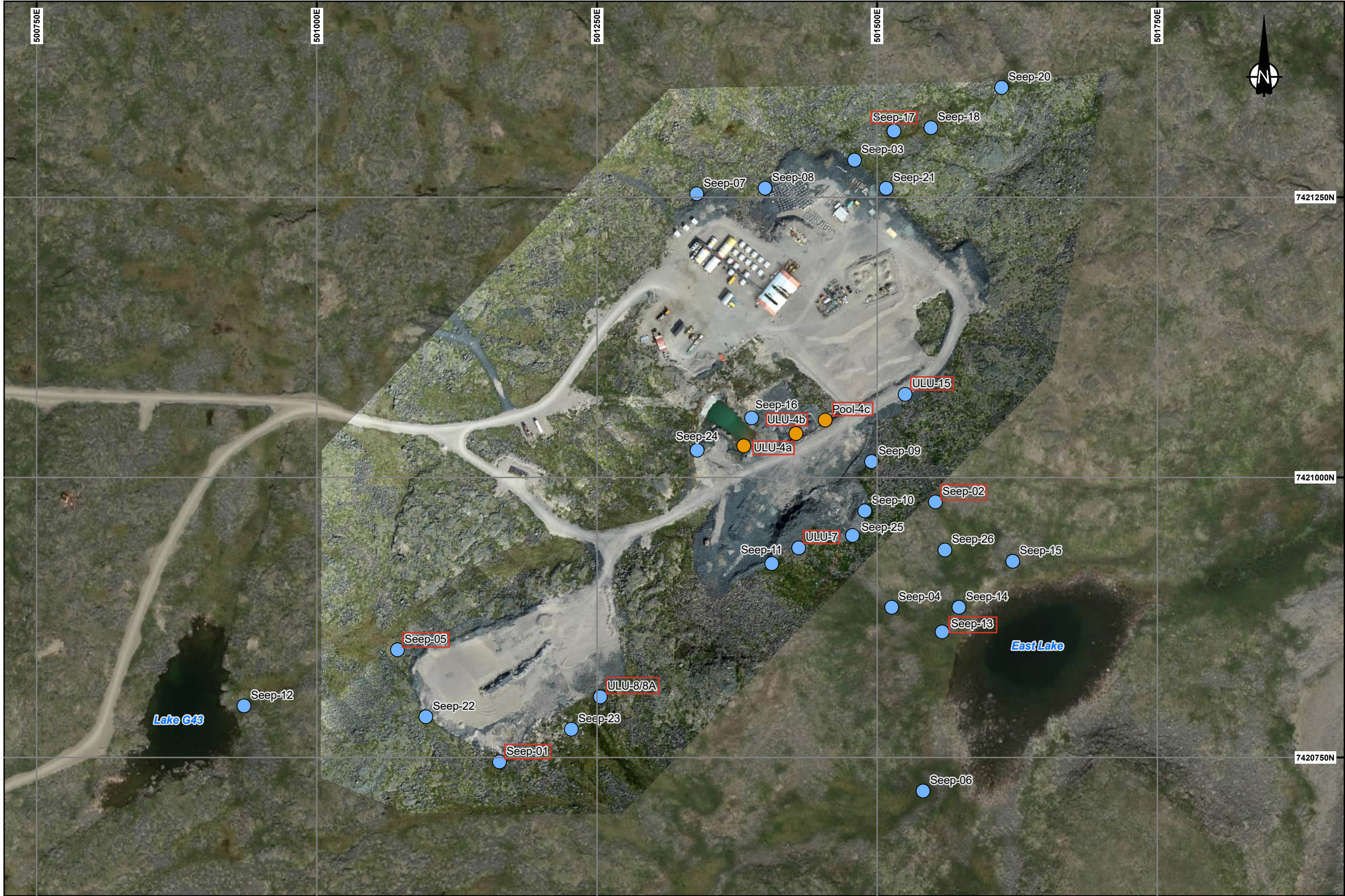
Table 3-2. Overview of All Ulu Seepage Monitoring Locations.

Seep	Area	Year Established	Upstream Location	Comments/Represents	Downstream Location
Seep-01	Ore pad (south)	2019	Ore pad/tundra	Ore pad tundra seep, sub-surface drainage.	Seep-06, then East Lake
Seep-02	Within tundra between waste rock pad and East Lake	2020	Seep-09, ULU-15	Waste rock pad seepage modified by tundra interaction	Seep-14 and seep-15 (flow splits into two), then East Lake
Seep-03	Camp pad (NE)	2020	Camp pad	Camp pad contact water/standing water.	Seep-20 then sub-surface to Ulu Lake
Seep-04	Within tundra between waste rock pad and East Lake	2020	Seep-11 and ULU-7	Waste rock pad seepage modified by tundra interaction	Seep-13 then East Lake
Seep-05	Ore pad (NW)	2020	Ore pad/tundra	Ore pad tundra seep, sub-surface drainage.	Seep-12 then Lake G43
Seep-06	Inflow to East Lake (S)	2020	ULU-8 and Seep-01	Flow into East Lake from south side of ore pad (plus surface/sub-surface waters)	East Lake
Seep-07	Camp pad (N)	2021	Camp pad	Camp pad contact water	Sub-surface to Seep-17/Seep-20 drainage
Seep-08	Camp pad (N)	2021	Camp pad	Camp pad contact water	Sub-surface to Seep-17/Seep-20 drainage
Seep-09	Waste rock pad (E)	2021	Waste rock pad	Waste rock pad contact water	Sub-surface to Seep-02, -26, -14, -15 then East Lake
Seep-10	Waste rock pad (C)	2021	Waste rock pad	Waste rock pad/stockpile contact water	Sub-surface to Seep-13 or Seep-14
Seep-11	Waste rock pad (W)	2021	Waste rock pad	Waste rock pad/stockpile contact water	Seep-04, then Seep-13 to East Lake
Seep-12	Inflow to small lake (G43) west of ore pad	2021	Seep-05 and boggy drainage area becoming defined surface flow	Flow into small lake (G43), part of West Lake catchment, from northwest side of ore pad	Lake G43
Seep-13	Inflow to East Lake (W)	2021	Seep-04 (and potentially sub-surface from Seep-10)	Flow into East Lake from waste rock pad and waste rock stockpile.	East Lake
Seep-14	Inflow to East Lake (W)	2020	Seep-02 (and sub-surface from Seep-09, -10)	Flow into East Lake from waste rock pad	East Lake
Seep-15	Inflow to East Lake (NW)	2021	Seep-02 and higher ground to the east	Flow into East Lake from waste rock pad, also receives drainage from higher ground to the east.	East Lake
Seep-16	Portal area	2021	Mineralized rock above mine sump	Flow from snow melt passing through a few meters of waste rock/ore above portal/mine sump.	Portal pond
Seep-17	Camp pad (NE)	2021	Camp pad/tundra	Tundra seep from camp pad area where drill core is stored. Location also receives drainage from higher ground to the NW.	Seep-20, then sub-surface towards Ulu Lake
Seep-18	Camp pad (NE)	2021	Seep-17	Tundra seep from camp pad area, downstream of Seep-17. Location also receives drainage from higher ground to the NW. (Discontinued as too close to Seep-17)	Seep-20, then sub-surface towards Ulu Lake
Seep-20	Camp pad (NE)	2022	Seep-17, Seep-03, Seep-21	Tundra seepage from Camp pad area, multiple flow paths converge upstream.	Disappears into tundra, sub-surface towards Ulu Lake
Seep-21	Camp pad (NE)	2022	Camp pad	Camp pad contact water/standing water	Seep-20
Seep-22	Ore pad (W)	2023	Ore pad	Ore pad tundra seep, likely sub-surface drainage.	Seep-06, then East Lake
Seep-23	Ore pad (S)	2023	Ore pad	Ore pad tundra seep, sub-surface drainage.	Seep-06, then East Lake
Seep-24	Portal area	2023	Waste rock west of portal entrance	Waste rock contact water	Waste rock-portal pad
Seep-25	Waste rock pad (C)	2023	Waste rock pad	Waste rock pad/stockpile contact water	Sub-surface to Seep-13 or Seep-14
Seep-26	Within tundra between waste rock pad and East Lake	2023	Seep-02, -09	Waste rock pad seepage modified by tundra interaction	Sub-surface to Seep-14 then East Lake
ULU-7	Waste rock stockpile	Historical	Waste rock stockpile	Waste rock pad/stockpile contact water	Seep-04, then seep-13 to East Lake
ULU-8	Ore pad (S)	Historical	Ore pad	Ore pad seepage, likely predominantly sub-surface.	Seep-06, then East Lake
ULU-8A	Ore pad (S)	2023	Ore pad	Direct surface flow out of ore pad	Sub-surface to ULU-8
ULU-15	Camp pad (S)	2021	Camp pad/landfill	Seepage from south side of camp pad and drainage through/run-off from landfill.	Sub-surface, likely to Seep-02
Ref-03	North of Camp	2022	Tundra	Background conditions	Ulu Lake
Ref-06	North of Ulu Lake	2022	Tundra	Background conditions	Ulu Lake
Seep-19	Camp 3	2021	Camp 3 road	Camp 3 road contact water, prior to removal of acidic waste rock. No longer represents seepage.	Lake K29a

Source: [https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-06_Data Management/\[Ulu_Compiled_Seepage_CAPR003217_rtc_kyk_rev00.xlsx\]](https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-06_Data Management/[Ulu_Compiled_Seepage_CAPR003217_rtc_kyk_rev00.xlsx]) \

Notes: highlighting indicates: grey=waste rock contact water, green=flows or daylights within tundra, blue=downstream inflow to lake

PROJECT PATH: C:\Users\MSM\OneDrive\SRK Consulting\Projects\CAPR003217_Ulu_MLARD_Characterization\CAPR003217_Ulu_MLARD_Characterization.aprx - L-Fig 3-3 Seepage Monitoring Locations



LEGEND

- Portal Pond
- Seepage Monitoring Locations
- Monitoring Locations Sampled in 2024

NOTES

- Drone Imagery: Blue Star Gold Corp - 2023.
- Basemap Imagery: ESRI, Maxar Earthstar Geographics.

REFERENCES

- Coordinate System: NAD 1983 UTM Zone 12N



SRK JOB NO: CAPR003217
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Ulu

2024 ML/ARD Characterization

Seepage Monitoring Locations

Date: Mar 2025

Approved: CV

Figure: 3.3

Samples were also collected this season from ponds/pools around the portal area in an attempt to identify potential water sources to down-gradient seepage, particularly to ULU-15 (which in 2023 had zinc concentrations close to the WL limit) and Seep-02. This was done for two reasons:

- Because observations at freshet in 2024 suggested that during high flow conditions, water flows across/through/under the roads east and south of the portal area, from pools/ponds that are in contact with mineralized rock (Figure 3-3, and further details provided in Section 5.3.1).
- To determine whether the water chemistry in ULU-4a had changed substantially as a result of weathering and leaching of the mineralized rock stockpiled above it, since the pond was previously sampled in 2020 and 2021.

Sample locations are included with the seepage locations (Figure 3-3, Appendix A).

Blue Star's Environment Technician was trained in seepage sampling by SRK on May 25 and 26 during freshet monitoring. Freshet monitoring occurred during peak freshet conditions, unlike 2021 to 2023, where sampling occurred at the end of freshet.

Freshet samples were collected by SRK and Blue Star and subsequent samples were collected by Blue Star. A summary of the samples collected in 2024 is provided in Table 3-3, including 27 seep samples and five additional samples from the pools/ponds in the portal area. Additional field readings (pH and conductivity) were also collected from the standing water in the ore pad seeps throughout August while waste rock relocation was occurring, and on September 3 when that work was halted for the season.

Quality assurance/quality control (QA/QC) sampling included collection of three field method blanks (no field method blank was collected in July), and four duplicate samples. Nine trip blanks were included, associated with the seepage monitoring samples and additional compliance samples (i.e., from lakes not reported here). The QA/QC results are discussed in Section 4.

The reference monitoring sites were not sampled as per a recommendation in SRK (2024) as background conditions were established from the data collected at the reference sites in 2022 and 2023 and were not expected to change substantially.

Table 3-3. Summary of Seepage Monitoring Program Samples Collected in 2024.

Area	Monitoring Location	Sample Collected			
		May	June	July	August
Ore pad, southwest	Seep-01	Yes	Yes	Yes	Yes
Ore pad, northwest	Seep-05	Yes	Yes	Yes	Yes
Ore pad, southeast	ULU-8A if flowing, otherwise ULU-8	Yes ULU-8	Yes ULU-8	Yes ULU-8A and ULU-8	Yes ULU-8
Camp pad, north	Seep-17	Yes	Yes	Yes	Yes (two)
Camp pad, south/landfill	ULU-15	Yes	Yes	No – dry	No – dry
Waste rock portal pad area, east	Seep-02	Yes	Yes	Yes	No – dry
Waste rock portal pad area, west	Seep-13	Yes	Yes	Yes	Yes
Waste rock stockpile	ULU-7	No – audible flow present beneath boulders but could not be accessed	No – dry	No – dry	No – dry
Portal pond	ULU-4a	No – mostly frozen	Yes	Yes	-
East of portal pond	ULU-4b	Yes	Yes	-	-
East of portal pond	Pool-4c	Yes	No – dry	-	-

Source: compiled within body of report from information provided by Blue Star Gold

3.3 Analytical Methods

3.3.1 Rinse Tests

Where necessary prior to sieving, gravel samples were spread out on trays indoors and dried at room temperature. Rinse testing was conducted on the –2 mm fraction of each sample. The method is documented in SRK (2022d) and uses a 1:1 ratio (by weight) of sample to de-ionized water. pH and conductivity were measured in the samples, and in blank tests containing only de-ionized water.

3.3.2 Seepage Analysis

The following chemical parameters were measured in the field at seepage sampling locations:

- pH and electrical conductivity (EC); and
- Oxidation reduction potential (ORP) or dissolved oxygen (DO) (depending on which meter was available/functioning at site).

Samples were submitted to Bureau Veritas Labs (BV) in Yellowknife and then forwarded to BV in Calgary for analysis of the following parameters:

- Lab pH and EC;
- Total suspended solids (TSS), total dissolved solids (TDS), hardness, acidity;
- Anions (alkalinity, sulphate, chloride, nitrate, nitrite, ammonia, bromide, fluoride); and
- Total and dissolved metals.

3.4 Seepage Data QA/QC and Compilation

SRK checked sample receipt confirmation reports issued by the lab for correct sample login and analytical requirements. SRK compiled the seepage lab results with field data provided by Blue Star, for QC assessment (Section 4). Seepage results were subsequently compiled with the seepage results from previous years of monitoring for data interpretation. The compiled seepage data is shown on charts throughout this report and in Appendix C, and all seepage data are provided in Appendix D.

3.5 Data Interpretation Methods

3.5.1 General

Where results were below the detection limit (DLs), the DL value was used in charts and calculations.

3.5.2 pH, ARD and Acidic Water in the Tundra

For the purpose of classification, direct drainage from an infrastructure pad (contact water) that has pH of 5 or below is considered to be acidic (ARD). Drainage with pH 5 to 6.5 is considered mildly acidic. pH 6.5 to 8 is considered circum-neutral, and pH above 8 is considered alkaline.

A localized area within an infrastructure pad that has pH less than 5 (identified through rinse pH testing) is not considered acidic unless it produces drainage with pH less than 5, i.e., surface or sub-surface flow out of the pad.

Water within the tundra may have acidic pH that is not necessarily ARD as the tundra is expected to be naturally acidic due to the presence of organic acids, which is indicated by rinse pHs of pH 4.3 to 5.8 from background tundra soil samples measured in 2022 (SRK 2023). Acidic waters caused by organic acids typically have much lower conductivity than typical acidic waters resulting from oxidation of sulphide minerals.

Seepage from the infrastructure pads is expected to interact with the tundra which may lower the pH of the seepage if the source drainage had circum-neutral pH but low alkalinity.

Within the seepage monitoring program, attempts have been made to establish whether water sampled in the tundra represents:

- Flow (or recent flow) from the infrastructure pads, that may have minor interaction with the tundra but is indicative of the direct influence the pads are having on drainage chemistry, and the processes (geochemical reactions) occurring in the pads.
- Standing water (with no visible flow) that likely originated from the infrastructure pads (through sub-surface drainage) but may have been modified through extended interaction with the tundra, or evaporation. The chemistry of standing water could become more “severe” (e.g., lower pH) or concentrated through extended tundra interaction and/or evaporation, in which case it is no longer indicative of drainage chemistry from the pads; however, it would still represent the conditions present downgradient of the pads in water that may have the potential to migrate further downstream.

Where there is a lack of direct flow out of the pads, the difference between these scenarios is important for data interpretation and understanding whether ARD from the infrastructure pads is present. Water that is considered likely to have drained from an infrastructure pad (through sub-surface flow) that has pH of 5 or below may be considered ARD based on interpretation of other results such as field conductivity, concentrations of sulphate and metals, and context from the up-stream/up-gradient rock. This is discussed with the results in Section 5.

3.5.3 Methods of Metal Leaching Interpretation

The 2020 to 2024 seepage data were used to interpret metal leaching characteristics, trends and controls. Metal leaching interpretation included:

- Assessment of major ions and their proportions to indicate dominant processes controlling water chemistry.
- Assessment of the molar ratio of calcium plus magnesium (representing calcite and dolomite dissolution) to sulphate (representing sulphide oxidation) with pH to provide an indication of how effectively carbonate minerals are neutralizing the acid generated by sulphide oxidation.
- Charting of key parameters against time to examine trends from 2020 through 2024.
- Charting of key parameters against pH and sulphate to examine controls.
- Assessment of current parameters of concern through comparison of the seepage data (dissolved concentrations) to applicable water quality guidelines and regulations. These include:
 - The Nunavut Water Board Water License (NWB-WL) effluent quality limits (Table 1-1) for the Ulu project. The limits are applicable to total metal concentrations; however, they are shown here on the dissolved element charts as the focus is on metal leaching resulting from mineral dissolution.
 - Canadian Council for Ministers of the Environment (CCME) water quality guidelines for the protection of aquatic life, freshwater (PAL-FW), long-term (CCME 2021). These are applicable to lake inflows. Additionally, the FCSAP (2012) interim groundwater quality guidelines are applicable to groundwater in the active zone of permafrost areas and would therefore apply to seepage from the infrastructure pads that travels sub-surface through the tundra to downgradient lakes. For inorganic parameters, the FCSAP groundwater quality guidelines are

based on the CCME PAL-FW guidelines (as no distinct guidelines exist for wildlife watering or soil organism pathways for these parameters). Therefore, the CCME guidelines are shown on the charts; however, they should be considered applicable to all samples.

- For sulphate, the BC guideline for PAL-FW (MOE 2013) of 218 mg/L is used (for soft to moderately soft water) as no CCME sulphate guideline exists. The BC guideline has been adopted for use in other Canadian jurisdictions.

4 Quality Control Results

SRK used the three field method blanks and five duplicate sample pairs along with the broader lab and field data for QC evaluation of the overall seepage dataset. The nine trip blanks were used to evaluate potential external contamination (outside of the sampling procedures).

A summary of the QC checks performed are summarized in Table 4-1, along with SRKs acceptance criteria, and the results of the QC analysis. The QC failures are discussed below (see letter reference to the failures in the table below).

A – One field blank (DI water sampled and filtered in the field) had levels of dissolved barium and strontium (7 to 10 times DLs) that are often seen with the filtration cups used at Ulu. The source of this contamination could also potentially be from the HDPE bottles used for sample collection (Reimann et al., 2007). However, the field blank had higher dissolved barium and strontium than total barium and strontium suggesting the source of contamination was more likely from the filtration cup. The level of barium and strontium contamination was lower than concentrations observed in the seepage samples and total fractions were greater than dissolved fractions in the seepage samples (within 30% RPD for samples >10x DL); therefore, contamination of barium and strontium in seepage samples is not considered significant.

B – One trip blank (which was not opened at site) had levels of total tin (94x DL) and dissolved tin (6x DL) that failed the QC criteria (SRK and BV's). The rerun confirmed the measured concentrations. This contamination in the trip blank was considered insignificant as all water samples had total and dissolved tin concentrations below the limit of detection.

C – One sample failed for having dissolved metal results higher than total metal results for zinc, which was confirmed in a sample rerun. Heterogeneity is expected in flowing water.

Overall, the dataset was considered acceptable.

Table 4-1. Seepage QA/QC Results.

QC Test	SRK QC Criteria	Results and Comments	Comment Reference
Physical Test ¹			
Field Blank (n=3)	<5X DL; pH is within 5-6.	SEEP-00C (8/13/2024) failed at 4.82. As per lab, DI water can lie between 4.8-5.5.	
Trip Blank (n=9)	<3X DL	All passed.	
Field vs. Lab pH Samples (n=32)	Within 1 pH unit difference.	All passed.	
Field vs. Lab Conductivity (n=32)	For samples >10X DL, should be within +/-30% RPD.	In May, field EC was biased high due to not calibrating in the field due to lack of calibration solution.	
Field Duplicate (n=4)	For samples >10X DL, should be within +/-30% RPD. For pH should be +/-0.2 difference pH units.	All passed.	
Anions and Nutrients ²			
Field Blank (n=3)	<5X DL	All passed.	
Trip Blank (n=9)	<3X DL	All passed.	
Field Duplicate (n=4)	For samples >10X DL, should be within +/-30% RPD.	All passed.	
Ion Balance (n=32)	For EC>100 uS/cm, % difference should be within +/- 10%.	All passed.	
Trace Elements with ICP-MS Finish			
Field Blank (n=3)	<5X DL	SEEP-00C (8/13/2024) failed for: D-Ba, D-Sr. Reruns confirmed.	A
Trip Blank (n=9)	<3X DL	TRIP BLANK-07 (7/15/2024) failed for: T-Sn at 93.5X DL (outlier). Rerun confirmed. Flagged TRIP BLANK (5/15/2024) for D-Sn at <6X DL but not a parameter of concern.	B
Field Duplicate (n=5)	For samples >10X DL, should be within +/-30% RPD. For ICP metal scan, it is acceptable for 10% of parameters to be outside of this criterion.	All passed.	
Total vs. Dissolved Metals (n=32)	For samples >10X DL, Total metals>Dissolved metals, (Dissolved metals-Total metals)/(average(total metals, dissolved metals) is within +/-30% RPD. For ICP metal scan, it is acceptable for 10% of parameters to be outside of this criterion.	SEEP-13 (6/10/2024) failed for: Zn. Rerun confirmed.	C

Source: [https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-05_Lab liaison and QC/\[Ulu_Compiled_QAQC_Seepage_CAPR003217_rtc_rev00.xls\]](https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-05_Lab liaison and QC/[Ulu_Compiled_QAQC_Seepage_CAPR003217_rtc_rev00.xls])

Notes
1 – parameters include Conductivity, pH, Acidity (pH 4.5), Acidity (pH 8.3), Total Dissolved Solids (TDS), Total Suspended Solids (TSS), Turbidity.
2 – parameters include: total alkalinity and species, Br, F, Cl, SO₄, total ammonia, NO₂, NO₃

5 Results

5.1 Introduction

Rinse pH and seepage results are discussed by area, incorporating both the existing understanding of the pH weathering conditions of the rock, and the down-gradient seepage chemistry. Discussion of the rinse pH results at the start of each area incorporates both the 2024 results and the previous monitoring data to summarize the degree of acidification of the rock.

Two main types of charts are used in the following sections to show the seepage data:

- Multi-parameter charts against time are used to show seasonal and longer-term trends for each of the key seeps that have been identified for on-going monitoring (Table 3-1, Section 3.2). For each of these seeps, several charts are shown with parameters grouped as follows: i) pH and alkalinity (as indicators of pH and carbonate buffering), ii) sulphate, calcium, magnesium, sodium, silicon, potassium (as indicators of the main minerals dissolving), iii) aluminum, iron, manganese (grouped as typically strongly controlled by pH and redox), iv) zinc, nickel, copper, selenium, cadmium, arsenic (grouped as released through sulphide oxidation).
 - It is notable on these charts that the period of data varies between years (e.g. some years only have late freshet data) and 2024 is the first year where the full season from peak freshet to late August has been represented. This complicates data comparison between years, as seasonal variation within a year (due to dilution) is typically expected to be a strong control on concentrations.
- Scatter plots comparing parameters, with multiple seeps plotted, and showing the water quality guidelines (as discussed in Section 3.5.3). In these charts the following formatting is used throughout:
 - Samples from the two reference locations (Ref-03 and Ref-06 data from 2022 and 2023; SRK 2024a) are shown with pink squares.
 - Samples that represent waste rock contact water from the infrastructure pads are shown with filled grey symbols. These are seeps that drain directly from the rock without traversing the tundra.
 - Seeps that flowed across or surfaced within the tundra are shown with filled green symbols. These seeps are more likely to be influenced by the tundra and background waters, than the contact water seeps.
 - Seepage flowing into downstream lakes is shown with filled blue symbols. These are also expected to be influenced by the tundra and background waters and provide an indication of potential for downstream dilution or attenuation.
 - Ore pad seeps are represented by circles, camp pad seeps by triangles, and waste rock-portal pad seeps by squares (includes for contact water, tundra seeps and lake inflows). Different shades (light versus dark) are used for seepage from different parts of the pads as indicated in the chart legends.

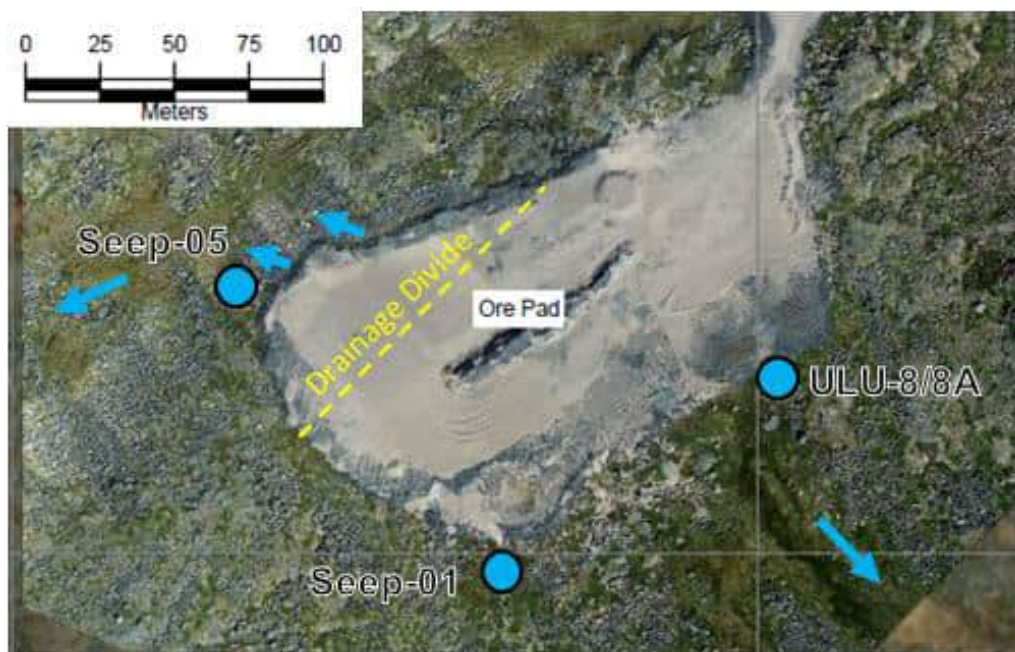
- Additional field data (samples with no lab results) are shown on a few pH and conductivity charts with the above colour formatting, but different symbols.
- Samples from the portal area ponds are shown with open black squares. At times (historically and in 2020) portal pond water was discharged and drained through the waste rock-portal pad and downstream into East Lake, and therefore influenced seepage water chemistry.
- Seepage in the portal area is shown with open grey squares.
- The landfill seepage is shown with a green diamond.

Key charts are shown in the text with the full set of charts shown in Appendix C.

5.2 Ore pad

Snowmelt and rainfall are thought to drain directly down into the flat surface of the ore pad, rather than run off. Most of the drainage from the ore pad appears to be sub-surface. There is a drainage divide (Figure 5-1) based on the original topography. The northwest section of the ore pad drains to the northwest and west towards Lake G43 in the West Lake catchment (Figure 5-1 Figure 3-3). The rest of the ore pad drains south towards East Lake (Figure 5-1, Figure 3-3, in the Ulu Lake catchment). These natural (somewhat swampy) drainage paths have been observed to contain surface flow associated with melting snow at freshet, further down-gradient from the ore pad where gradients are steeper. However, the extent of shallow sub-surface flow paths receiving loadings from the rock in the ore pad is not well understood.

Figure 5-1. Ore Pad Drainage Divide with Key Seeps and Generalized Drainage Directions.



5.2.1 Ore Pad Drainage Paths (South of the Drainage Divide)

Only one site of flowing water directly out of the ore pad has been found since the seepage monitoring program was formalized in June 2021 and this occurs at ULU-8A. Flow at ULU-8A immediately becomes sub-surface, draining to the ULU-8 compliance station, 5m from the edge of the ore pad (Figure 5-1).

It appears that sub-surface drainage at ULU-8, pools amongst large glacial boulders, that provide a depression for shallow groundwater to daylight (Figure 5-2). ULU-8 typically has standing water, but flowing water is observed when the up-gradient ULU-8A is flowing. Flow returns to the sub-surface away from the boulders. Seep-06 is the inflow to East Lake at the bottom of the drainage from the south side of the ore pad (Figure 3-3). It has been sampled in previous years (SRK 2024a) but was not monitored in 2024.

Seep-01 at the southwest corner of the ore pad is a pool in a depression within the tundra a few meters from the ore pad (Figure 5-3). No flow into the pool from the ore pad has been observed. It is unknown if there is sub-surface flow out of the depression down to Seep-06.

Figure 5-2. Looking SE From the South Edge of the Ore Pad (Above ULU-8A) to ULU-8.



Figure 5-3. Seep-01 Looking North to the Edge of the Ore Pad.



5.2.2 Ore Pad Rinse pH (South of the Drainage Divide)

The southeast part of the ore pad contained mineralized rock that was stockpiled upgradient of ULU 8/8A until it was relocated to the portal/mine sump area in 2018 (Figure 1-1). Strongly rusted rock remains on the surface of the ore pad at this location and white precipitates are common. At this site in 2020, brown rusted rock extended down to 0.7 m and had rinse pH of 7.4 (SRK 2021).

Other test pit samples from the ore pad, south of the drainage divide had rinse pH's of 8.2 to 8.6 in 2020 and 7.9 to 8.2 in 2023, except near the southwest corner of the ore pad (above Seep-01) where a 2 m deep test pit in July 2023 contained strongly oxidized orange rock down to frozen ground. Rinse pH was 3.9 from a sample from 1.8 m deep. Also, just south of the drainage divide, rinse pH's of 3.2 (from 0.75 m deep) and 5.9 (in underlying rock) were present in one 2023 test pit.

Near-surface samples from the outer edges of the ore pad also had acidic rinse pH of 3.3 to 3.5 (in 2021).

The central part of the ore pad contains stockpiled acid generating rock that was relocated from Camp 3 and Culvert 6 in 2021 pending management, however this was covered with tarps (Figure 5-1). In August and September of 2024 mixed acid generating rock and PAG rock was

relocated from the north edge of the ore pad to south of the drainage divide, in preparation for interim management (Figure 5-4).

Much of the rock in the ore pad (south of the drainage divide) therefore still appears to be weathering at circum-neutral pH; however, areas of acid generating rock have been identified, particularly along the south edge of the pad. Rock directly up-gradient of Seep-01 is more problematic as acid generating rock extends to 2 m, and rock directly upgradient of ULU-8/8A is more problematic due to leaching of weathering products likely resulting from the previously stockpiled mineralized rock. The newly placed acid generating rock is also particularly problematic; however, there are plans to cover this for mitigation.

Figure 5-4. Newly Relocated Rock on the Ore Pad (August 2024), Looking SE from the Covered Thermistor Site (Shown in Figure 5-1).



5.2.3 Ore Pad Seepage Results (South of the Drainage Divide)

The ore pad seeps are generally observed as standing water pools in low points in the tundra, although surface flow has been recorded periodically at Seep-01, and ULU-8/8A, including in late July/early August in 2020 and at ULU-8/8A in July 2023. In 2024 flowing water was again documented in July at ULU-8A.

In May 2024, SRK and Blue Star observed freshet and the formation of standing water pools at ULU-8 and Seep-01 from melting of in situ snow and ice. Sub-surface drainage into these pools from the ore pad is also assumed to occur, based on the seepage results.

Although acid generating rock has been identified at the edge of the ore pad directly up-gradient of ULU-8/8A, the seepage pH indicates that contact water is currently neutralized before it exits the pad and ARD is not present. All ore pad seepage charts, and comparison to water quality limits are provided in Appendix C (Figures C1–C38).

pH and Conductivity Trends in 2024

Measured pH at ULU-8/8A and Seep-01 were generally consistent between the two locations in 2024, ranging from 6.0 to 7.2 and 5.9 to 6.5, respectively (Figure 5-5). At ULU-8/8A, pH varied through the summer months; whereas at Seep-01, pH gradually decreased through the summer from 6.5 in May to 5.9 in August. Previously, pH values at ULU-8 (about 5 m from the south edge of the pad) between 2020 and 2023 have ranged from 6.0 to 6.7 when there has been no flow recorded, but with higher pH values of 6.7 to 7.7 in water flowing directly out of the edge of the pad (at ULU-8A in 2023 and four additional locations informally recorded as -8a, -8b, -8c and -8d in 2020).

Electrical conductivity measurements at both seeps increased through the season in 2024, with lowest values being recorded during freshet in May and June (Figure 5-6). By August, conductivity values at ULU-8/8A and Seep-01 were 1569 and 1095 $\mu\text{S}/\text{cm}$, respectively. Highest conductivities have occurred late in the season and been similar between ULU-8 and -8A, as well as similar over time.

Major Ions

During 2024, the major anions present in seepage on the south side of the ore pad were sulphate, alkalinity, and chloride. In terms of molar equivalent proportions sulphate was the dominant anion in ULU-8/8A (Figure 5-7, Figure 5-8) and Seep-01 (Figure 5-11, Figure 5-12), and comprised 64% to 96% of the total anions, followed by alkalinity (4–25%) and then chloride (1–27%) (Appendix D). The anion molar proportions indicate that sulphide oxidation was the dominant process influencing water chemistry. Alkalinity represents the waters capacity to neutralize acid and limit pH decline and is generated through carbonate (and to a lesser degree silicate) mineral dissolution.

Chloride concentrations were below the CCME water quality guideline in 2024, although one sample from ULU-8/8A (August, chloride = 110 mg/L) approached the water quality guideline (120 mg/L). The presence of chloride in some of the seepage appears to be related to use of sodium chloride during portal development and ore extraction (Klohn-Krippen 1998). Chloride has shown a decline at ULU-8/8A in terms of both concentrations and molar proportion of total anions between 2020 and 2023, from 24-42% of the total anions in 2020 to 2-5% of the total anions in 2023. This is likely to be related to removal of the stockpiled ore from the ore pad in 2018 when it was relocated to the portal-mine sump area (Figure 1.1). Prior to 2018, saline water was likely predominantly frozen in the stockpiled ore porewater and/or in the pad beneath the stockpile (frozen due to the greater thickness of rock associated with the stockpile). Removal of the ore stockpile appears to have allowed thawing at that location, facilitating the saline water to seep out of the ore pad at ULU-8/8A. The high concentration of chloride measured in August at ULU-8/8A suggests that chloride is still being flushed from the ore pad.

Sulphate concentrations exceeded the BC water quality guideline (218 mg/L) in four out of 5 samples at ULU-8/8A and two out of 4 samples at Seep-01. Sulphate concentrations ranged from 59 to 400 mg/L and 17 to 530 mg/L at ULU-8/8A and Seep-01, respectively in 2024. Sulphate concentrations at ULU-8/8A were consistent with previous years of data following freshet but had lower sulphate in May 2024 reflecting earlier sampling and greater dilution than previous years. Historic data for Seep-01 is sparse and the highest sulphate concentrations were observed at this location in 2024.

Similar to previous years, calcium was the predominant major cation present in ULU-8/8A (Figure 5-8) and Seep-01 (Figure 5-12) followed by magnesium, sodium, and potassium. Calcium and magnesium together proportionally made up 69 to 95% of the total cations. At ULU-8/8A, however, sodium accounted 29% of the total cation proportions in August 2024, consistent with previous samples collected late in the season, and consistent with proportionally higher chloride.

The molar ratio of dissolved calcium and magnesium to sulphate in contact waters, can be used with pH to provide an indication of the effectiveness of carbonate minerals to neutralize the acid generated by sulphide oxidation in waste rock. Contact water seepage from ULU-8/8A had carbonate:sulphate molar ratios between 0.97 and 1.14 (average of 1.03) and Seep-01 had carbonate:sulphate molar ratios between 0.95 and 1.29 (average of 1.05), both of which are consistent with previous year values. These ratios indicate that carbonate dissolution rates were just barely keeping up with the rates of local acid generation.

Trace Ions

Seasonal trends in trace element concentrations for ULU-8/8A and Seep-01 are shown in Figure 5-9 and Figure 5-10, and Figure 5-13 and Figure 5-14, respectively. Arsenic, copper, lead, nickel, and zinc have effluent quality limits through the NWB water license, and dissolved concentrations of these parameters were all below the maximum average and maximum grab sample limits at ULU-8/8A and Seep-01. Highest zinc was lower in 2024 (0.17 mg/L) than in 2023 (0.31 mg/L), with the higher concentration in 2023 possibly reflecting drier than typical conditions.

Nitrate, ammonia, arsenic, boron, chromium, lead, mercury, molybdenum, silver, thallium, and uranium concentrations were below the CCME water quality guidelines in ULU-8/8A and Seep-01 2024 samples. The following parameters had some 2024 results above the CCME PAL-FW water quality guidelines (all charts shown in Appendix C): aluminum, fluoride, cadmium, copper, iron, manganese, nickel, selenium, and zinc. Background levels of aluminum, copper, and fluoride are naturally elevated in the Ulu area based on concentrations in the reference stations in 2022 and 2023. The concentrations of these parameters at ULU-8/8A and Seep-01 were similar to the background.

As with sulphate discussed above, trace elements (i.e., cadmium, nickel, selenium, and zinc) had similar concentration ranges and trends to 2023 data. This provides an indication that contact waters are being increasingly impacted through the season by metal leaching associated with sulphide oxidation on the south side of the ore pad. Leaching of arsenic, cadmium, copper, iron, nickel, selenium, and zinc are associated with sulphide oxidation, and consistent with the presence of iron sulphides and trace chalcopyrite, sphalerite, arsenopyrite, and millerite in the waste rock (SRK 2022b). Leaching of manganese may also be associated with sulphide oxidation or carbonate dissolution.

Figure 5-5. Seep-01 and ULU-8/8A (2024) pH trends.

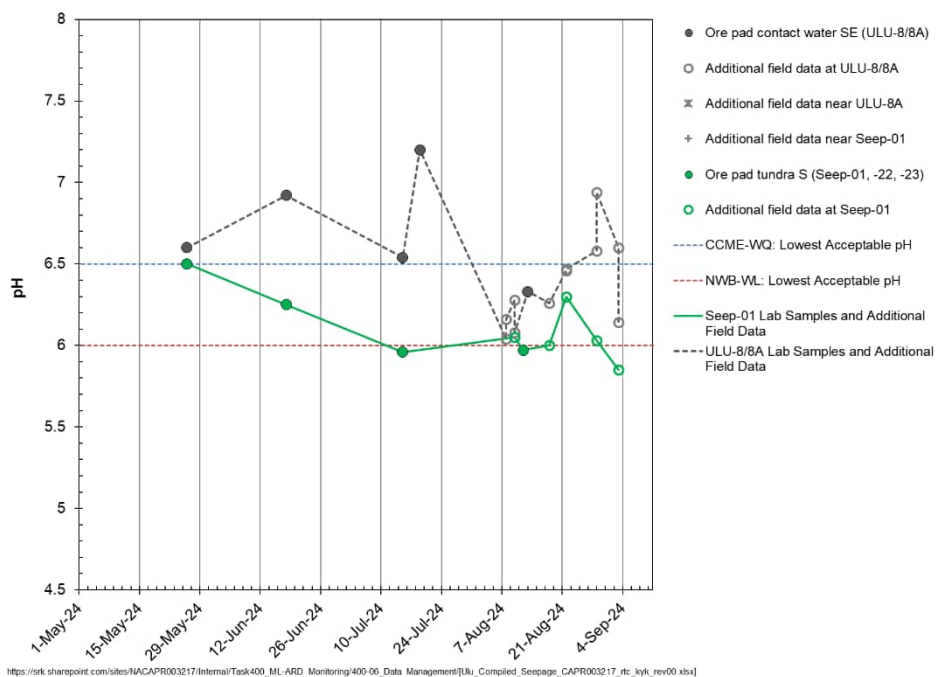


Figure 5-6. Seep-01 and ULU-8/8A (2024) conductivity trends.

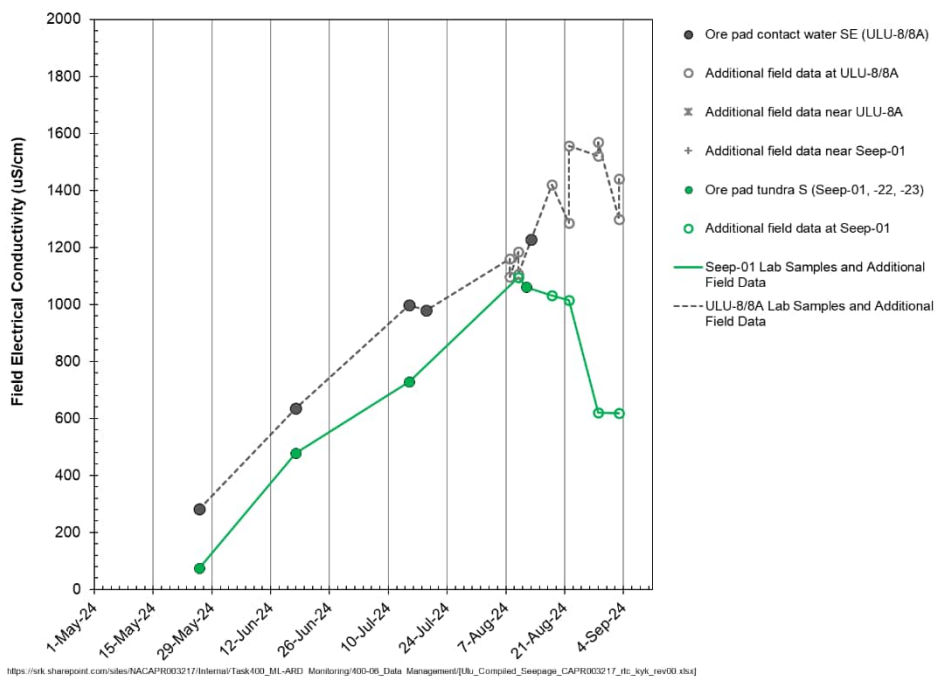


Figure 5-7. Ulu-8/8A ore pad seepage pH and alkalinity.

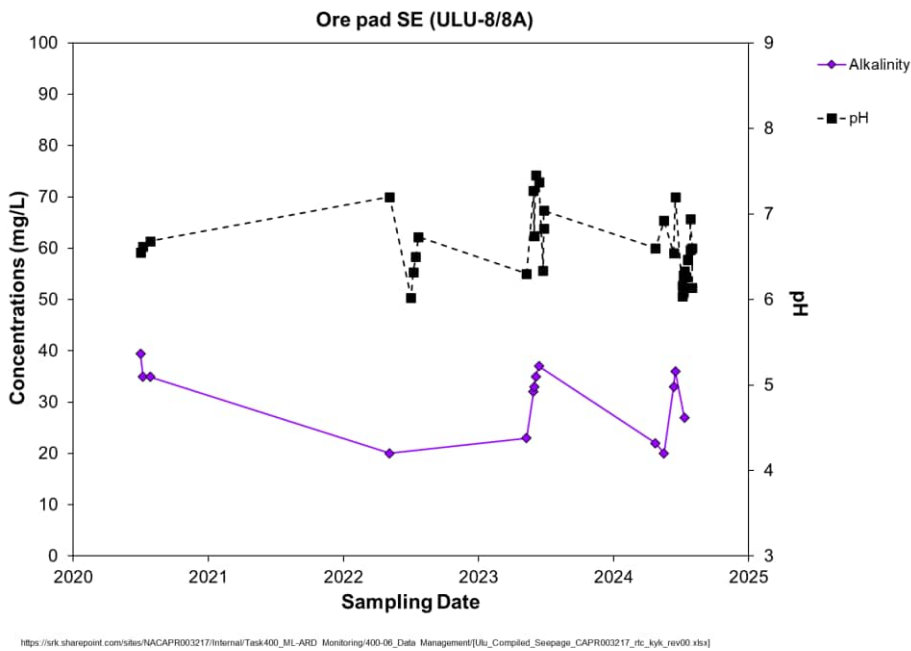


Figure 5-8. Ulu-8/8A ore pad seepage major cations and anions.

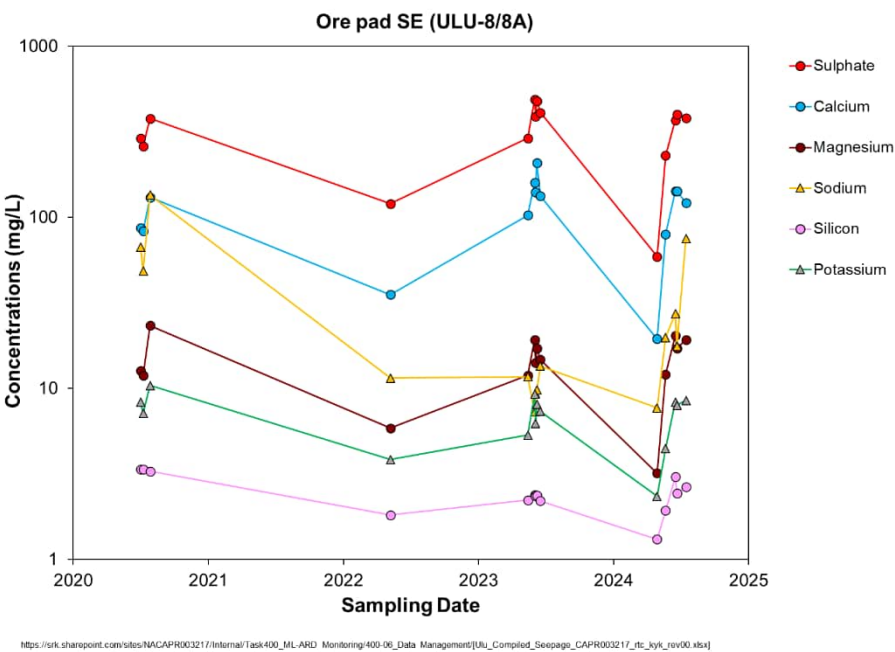


Figure 5-9. Ulu-8/8A ore pad seepage oxyhydroxide forming elements.

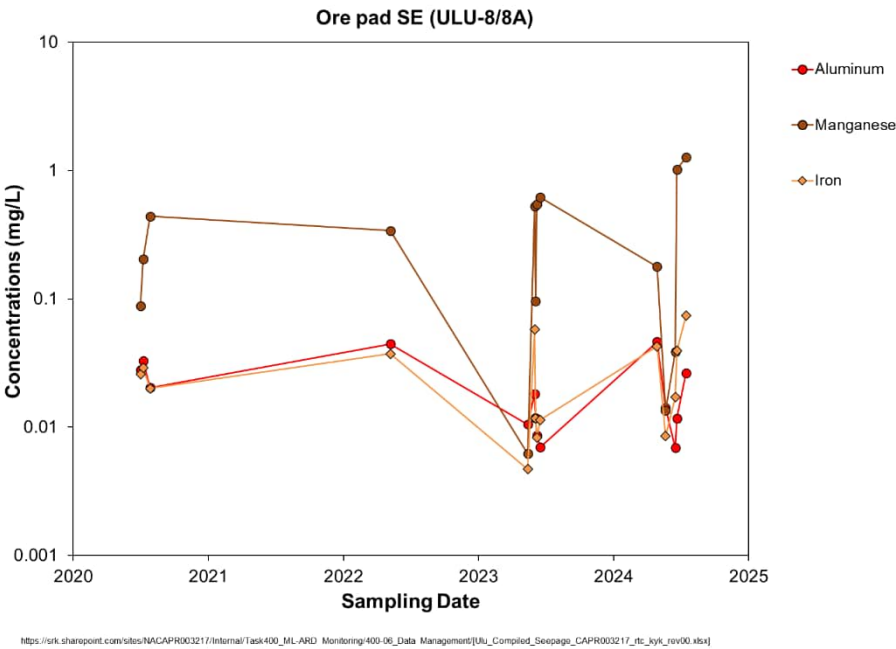


Figure 5-10. Ulu-8/8A ore pad seepage trace elements.

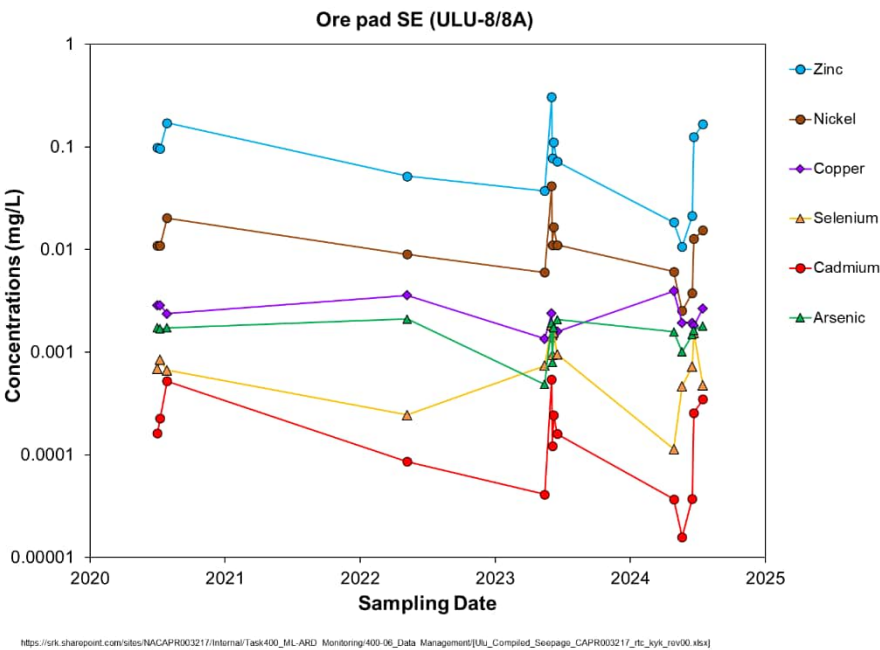


Figure 5-11. Seep-01 ore pad seepage pH and alkalinity.

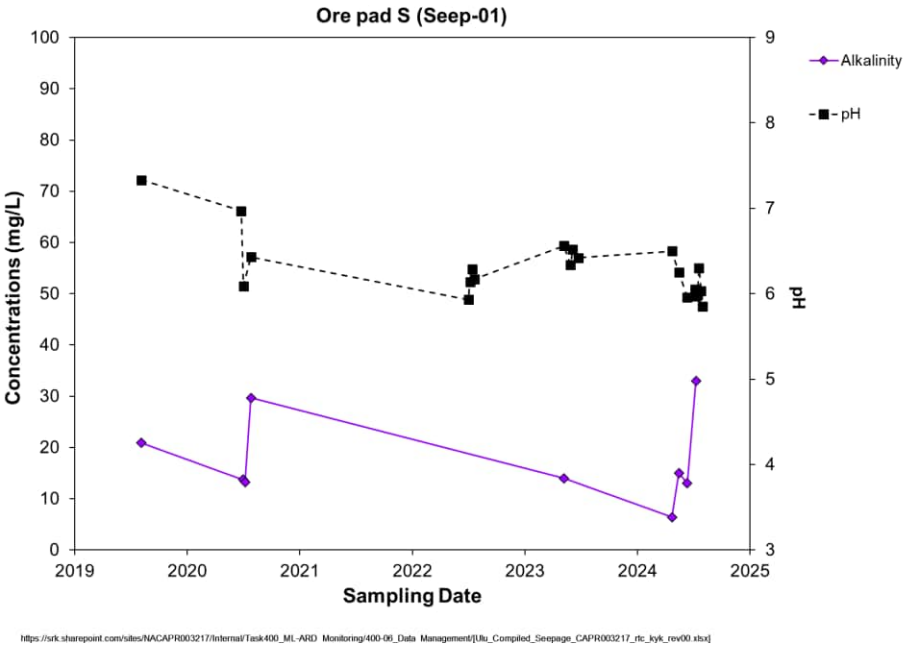


Figure 5-12. Seep-01 ore pad seepage major cations and anions.

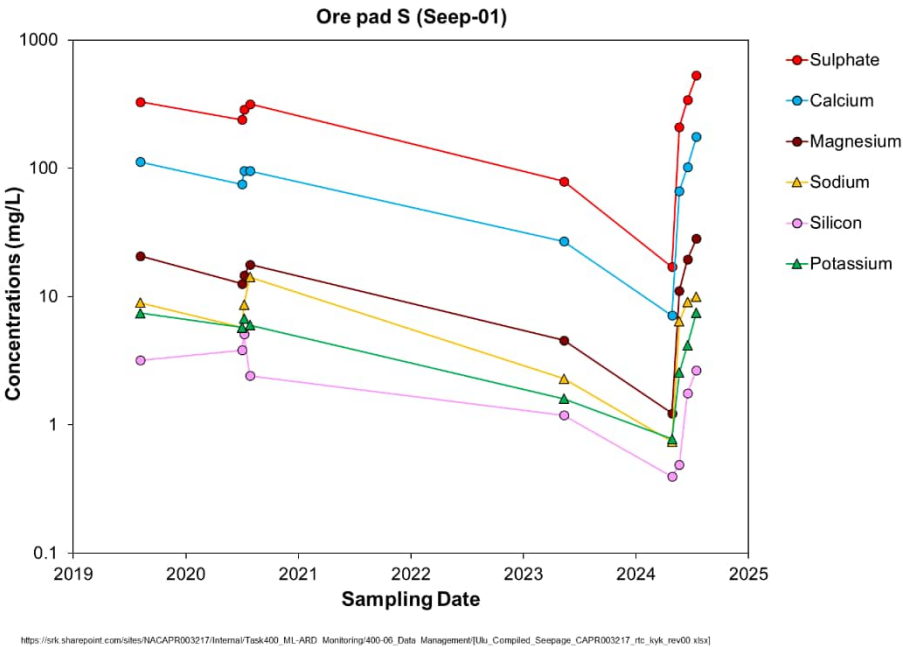
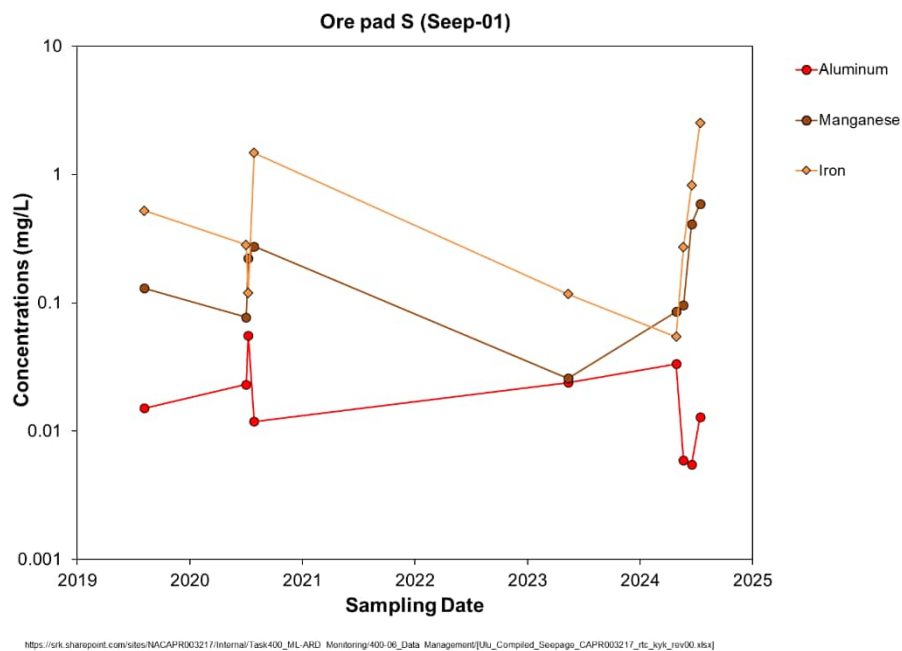


Figure 5-13. Seep-01 ore pad seepage oxyhydroxide forming elements.



5.2.4 Ore Pad Drainage Paths (North of the Drainage Divide)

North of the ore pad drainage divide, sub-surface flow is thought to drain to the northwest (Figure 5-1), where it daylights at Seep-05 (approximately 10 m from the NW corner of the ore pad) amongst large glacial boulders (Figure 5-15). Seep-05 typically has standing water and is at the start of a swamp that extends down-gradient to the west. Seep-12 is the inflow to Lake G43 at the bottom of the drainage from the north side of the ore pad (Figure 3-3). Seep-12 was sampled in previous years (SRK 2024a) but was not monitored in 2024.

Based on a pH-conductivity survey that tested in-situ pooled water amongst boulders along the drainage in July 2023, acidic pH's (pH 4.2 to 4.9) and conductivity an order of magnitude above background levels, were present within 25 m of the edge of the ore pad. Mildly acidic pH (6.0-6.3) and elevated conductivity extended from 25 m to 75 m from the NW corner of the ore pad, whereas conductivity was at background levels at 130 m from the corner of the ore pad (and pH remained mildly acidic, and similar to background). Sub-surface drainage was, therefore, interpreted to be impacted by acid generating rock at the edge of the ore pad (SRK 2024a).

Figure 5-15. Seep-05 Looking SE to the Ore Pad.



5.2.5 Ore Pad Rinse pH Results (North of the Drainage Divide)

Rock to the north of the ore pad drainage divide includes rock within the pad, and also residual rock left lying on the tundra from removal of part of the north edge of the pad in 2020 (Figure 1-1, Section 1.3.1, Figure 5-16). Part of the ore pad was not historically covered in esker sand (see pre-2018 ore pad inset in Figure 1-1), and this area contains more strongly oxidized rock than other parts of the pad. Where residual rock from this uncovered part of the pad was left exposed on the tundra, it had rinse pH of 2.9 in 2023 (SRK 2024a). Adjacent rock within the edge of the pad had rinse pHs of 3.6 to 7.9 in 2023, with acidic pH's associated with orange strongly oxidized rock, and circum-neutral pH's associated with grey rock with minor oxidation of sulphides (SRK 2024a).

During remediation works in August and September of 2024, the acid generating residual rock on the tundra was excavated, along with an adjacent area of the pad that had not been historically covered in esker sand and contained a mixture of orange and grey rock. Grab samples of the rock and underlying tundra soil, were collected by Blue Star during excavation and stockpiling of the rock onto the ore pad. Rinse test results for the 2024 grab samples are provided below.

Figure 5-16. Arial View of the North Edge of the Ore Pad Prior to Remediation in August 2024 (Looking East).



2024 Rinse pH Results

The 2024 sample logs and photographs are provided in Appendix B. The rinse test results for the ore pad samples collected in August 2024 are presented in Table 5-1, and rinse pH versus rinse conductivity are plotted in Figure 5-17 with samples collected from 2020 to 2024.

The 2024 results were as follows:

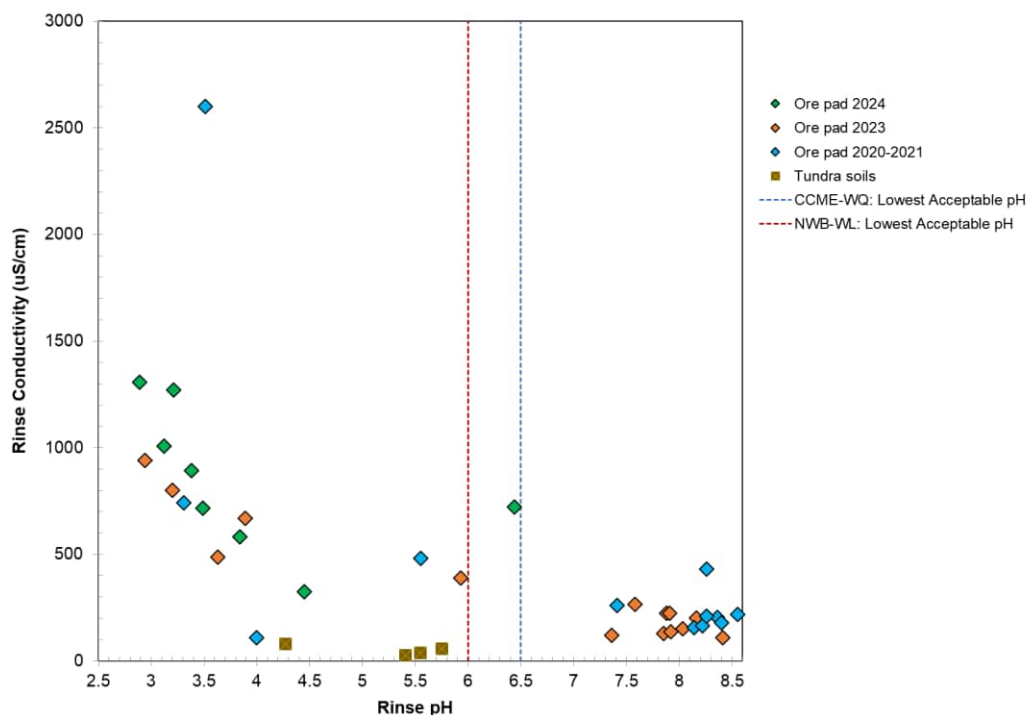
- Three out of the 4 samples identified as rock had rinse pH values less than 5.0 and were described as orange-brown and strongly oxidized. One sample was mildly acidic with a rinse pH of 6.4 (rock identified as grey at 20–25 cm depth). Rinse conductivity for all rock samples ranged from 720 to 1,300 $\mu\text{S}/\text{cm}$.
- All of the samples identified as tundra soil had a rinse pH of less than 5.0 (ranging from 3.2 to 4.5) and are classified as acidic. The rinse conductivity was variable, and ranged from 320 to 1,300 $\mu\text{S}/\text{cm}$.
- Highest rinse conductivities corresponded to the lowest rinse pH, likely due to the presence of soluble secondary sulphate minerals and is consistent with the brown-orange colour of the low pH samples, resulting from precipitation of oxidized iron on the surfaces of the weathered rock. Both sulphate and iron are expected to be released through oxidation of the pyrrhotite and pyrite present in the waste rock.

Table 5-1. 2024 Rinse Test Results for Ore Pad (North).

Area	Test Pit	Sample	Sample Depth (cm)	Material Type	Colour of <2 mm Sieved Fraction	Rinse pH	Rinse Conductivity ($\mu\text{S}/\text{cm}$)
Ore pad (North)	TP24-09	9A	0-10	Tundra Soil	Dark Brown	3.2	1300
Ore pad (North)	TP24-09	9B	40-45	Tundra Soil	Orange	3.8	580
Ore pad (North)	TP24-10	10A	0-10	Rock	Orange	2.9	1300
Ore pad (North)	TP24-10	10B	25-30	Tundra Soil	Brown	3.5	720
Ore pad (North)	TP24-11	11A	20-25	Rock	Grey	6.4	720
Ore pad (North)	TP24-12	12A	15-20	Tundra Soil	Orange/Brown	4.5	320
Ore pad (North)	TP24-13	13A	0-10	Rock	Orange	3.4	890
Ore pad (North)	TP24-14	14A	0-5	Rock/Tundra Soil	Orange	3.1	1000

Source: SRK Consulting\NA CAPR002649 Ulu Reclamation SOW 2023 - Internal\Task100_ML-ARD\160_Data management\Rinse test results compiled_UluCamp_KYK_Rev01.xlsx

Figure 5-17. Rinse pH vs rinse conductivity for 2024 Ore Pad samples.



[https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-06_Data Management/\[Rinse test results compiled_UluCamp_CAPR003217_KYK_Rev01.xlsx\]](https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-06_Data Management/[Rinse test results compiled_UluCamp_CAPR003217_KYK_Rev01.xlsx])

5.2.6 Ore Pad Seepage Results (North of the Drainage Divide)

Similar to the south ore pad seeps (ULU-8/8A, Seep-01), no water flow in 2024 was documented at the north ore pad seep (Seep-05); however, sub-surface drainage into this pool from the ore pad is assumed to occur based on the seepage results. All ore pad seepage plots, including comparisons to water quality limits, are provided in Appendix C (Figures C1–C38).

pH and Conductivity Trends in 2024

Measured pH in 2024 at Seep-05 was consistent with 2023 pH values and trends, with pH ranging from 4.6 to 6.5 and decreased from freshet to early August and then increased (Figure 5-18). In previous years, the lowest recorded pH was 5.5 in 2020, pH 4.6 in 2022 and pH 4.8 in 2023. The drop in pH lows after 2020 corresponds in timing to disturbance of the nearby north edge of the ore pad. Acid generating rock has been identified at the edge of the ore pad directly up-gradient of Seep-05, and is thought to be impacting water quality. Electrical conductivity measurements increased through the season in 2024 from 87 to 1069 $\mu\text{S}/\text{cm}$, with lowest values being recorded during freshet in May and June (Figure 5-19). The highest electrical conductivity values for Seep-05 have also previously occurred late in the season.

Major Ions

At Seep-05, sulphate was the predominant anion present, which accounted for 81% to 97% of the total anions (Figure 5-21). Alkalinity and chloride were proportionally much lower between 0 and 14% and 3 to 6%, respectively. Similar to the south ore pad seeps, the anion molar proportions indicate that sulphide oxidation was the dominant process influencing water chemistry.

Chloride concentrations were below the CCME water quality guideline in 2024, whereas sulphate concentrations exceeded the BC water quality guideline (218 mg/L) in one out of 4 samples at Seep-05. Sulphate concentrations in 2024 (ranged from 20 to 560 mg/L) and were consistent with 2023 trends following freshet, where concentrations increased through the summer months (Figure 5-21).

Calcium was the predominant major cation present in Seep-05 followed by magnesium, sodium, and potassium (Figure 5-21). Calcium and magnesium together proportionally made up 86 to 92% of the total cations. Carbonate:sulphate molar ratios at Seep-05 ranged between 0.80 and 1.05 (average of 0.97), which is consistent with 2023 values. It remains unclear whether the seepage from the northwest part of the ore pad can be considered contact water and the degree to which the water chemistry was modified through tundra interaction or evaporation (Seep-05 is approximately 14 m from the edge of the ore pad). However, the results suggest that ARD is present seasonally at the northwest edge of the ore pad, and rates of sulphide oxidation (and corresponding acid generation) overwhelm rates of neutralization once the ore pad has thawed later in the season.

Notably, acid generating rock upgradient of Seep-05 had been removed by mid-September 2024 and placed in the center of the ore pad for management.

Trace Ions

Seasonal trends for oxyhydroxide forming metals (aluminum, manganese, and iron) are shown in Figure 5-22 and other trace elements are shown in Figure 5-23. None of the regulated parameters exceeded the NWB water license at Seep-05; although, the maximum zinc concentration measured in 2024 was 0.41 mg/L (August), which is approaching the NWB effluent quality limit.

Nitrate, ammonia, arsenic, boron, chromium, iron, lead, mercury, molybdenum, silver, thallium, and uranium concentrations were below the CCME water quality guidelines in Seep-05. The following parameters had some 2024 results above the CCME PAL-FW water quality guidelines (all charts shown in Appendix C): aluminum, fluoride, cadmium, copper, manganese, nickel, selenium, and zinc. Background levels of aluminum, copper, and fluoride are naturally elevated in the Ulu area; however, due to the lower pH at Seep-05 in late summer (4.6) aluminum and copper concentrations were two orders of magnitude higher than background, and fluoride was three times higher than background.

Aluminum concentrations are conventionally higher at lower pH. Aluminum is typically released through weathering of aluminosilicate minerals and the tundra is a potential source (the mineral component of tundra soils) based on aluminum concentrations present in the reference stations, or acidic weathering of aluminosilicate minerals in the waste rock.

As with sulphate discussed above, trace elements trends in 2024 (i.e., cadmium, nickel, selenium, and zinc) were consistent with 2023 trends and provide an indication that drainage was being increasingly impacted through the season by metal leaching and low pH associated with sulphide oxidation in rock within the north side of the ore pad.

Figure 5-18. Seep-05 (2024) pH trends.

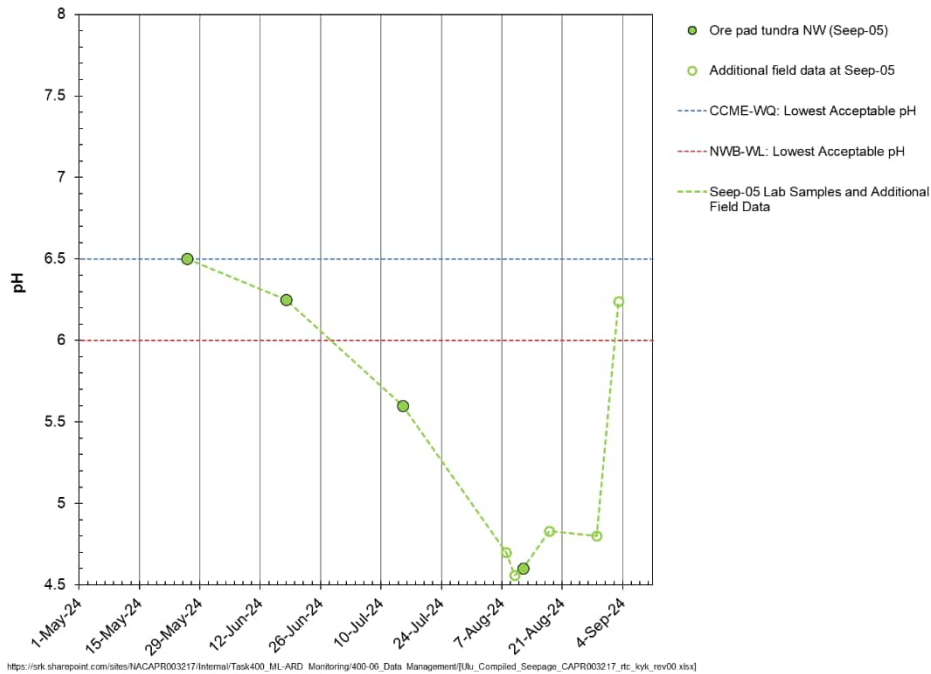


Figure 5-19. Seep-05 (2024) conductivity trends.

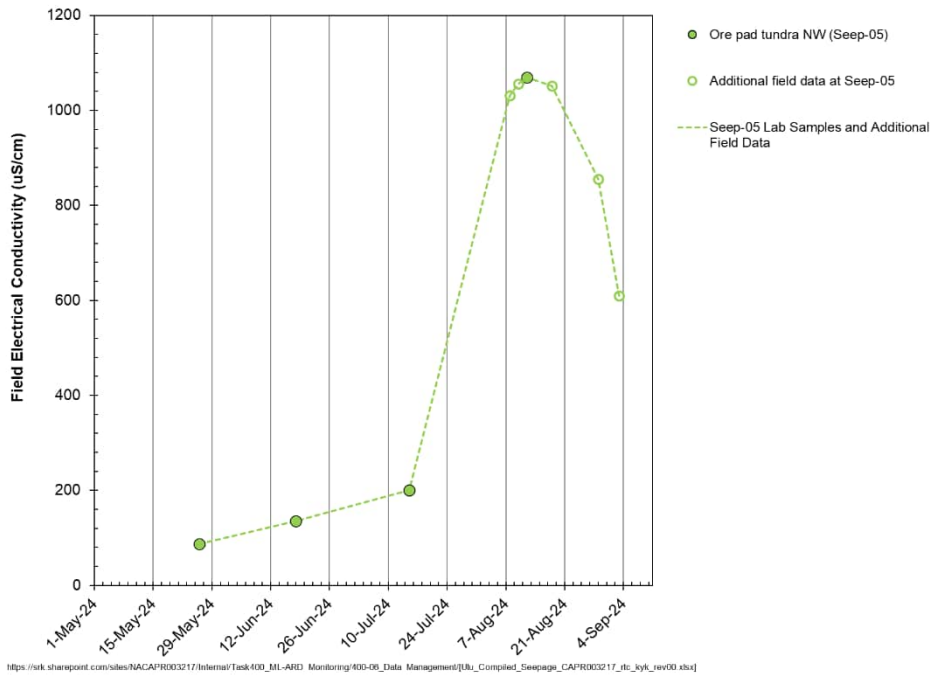


Figure 5-20. Seep-05 ore pad seepage pH and alkalinity.

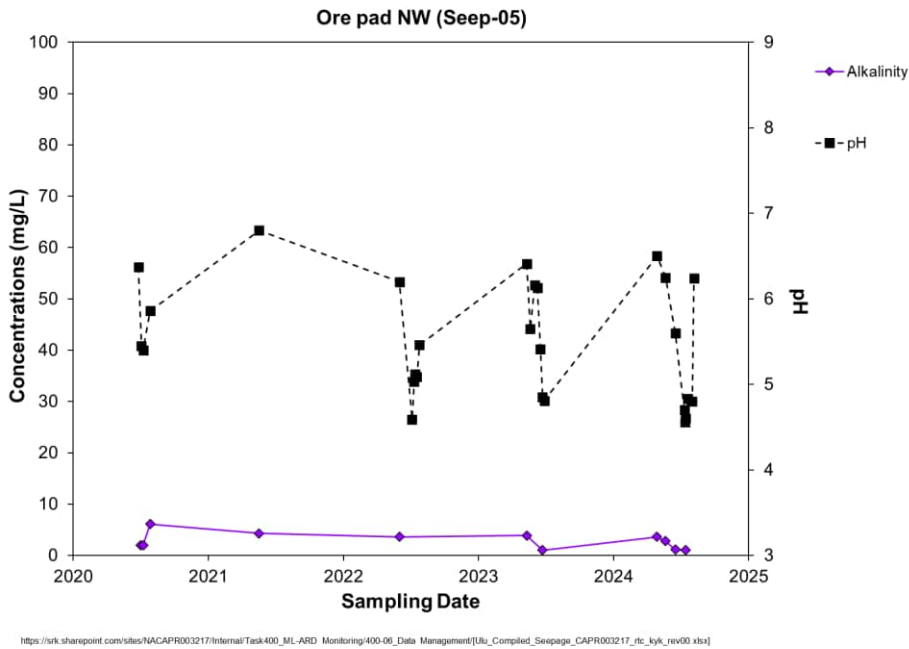


Figure 5-21. Seep-05 ore pad seepage major cations and anions.

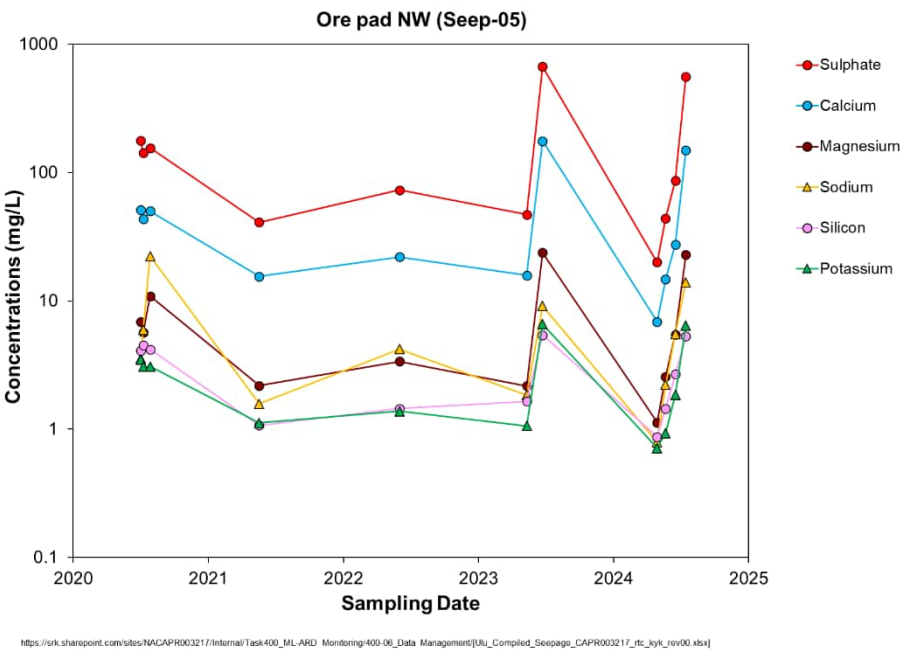


Figure 5-22. Seep-05 ore pad seepage oxyhydroxide forming elements.

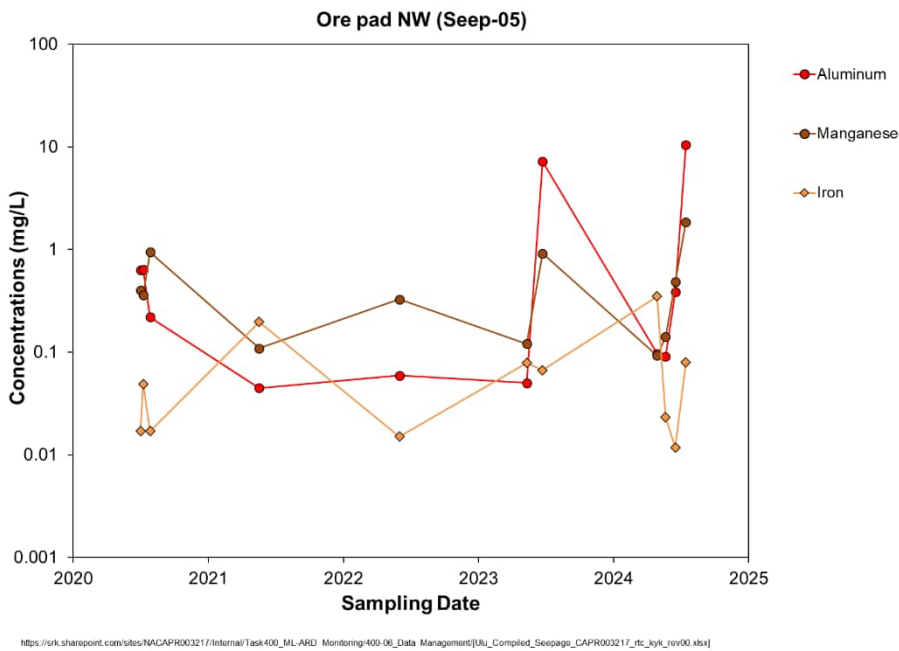
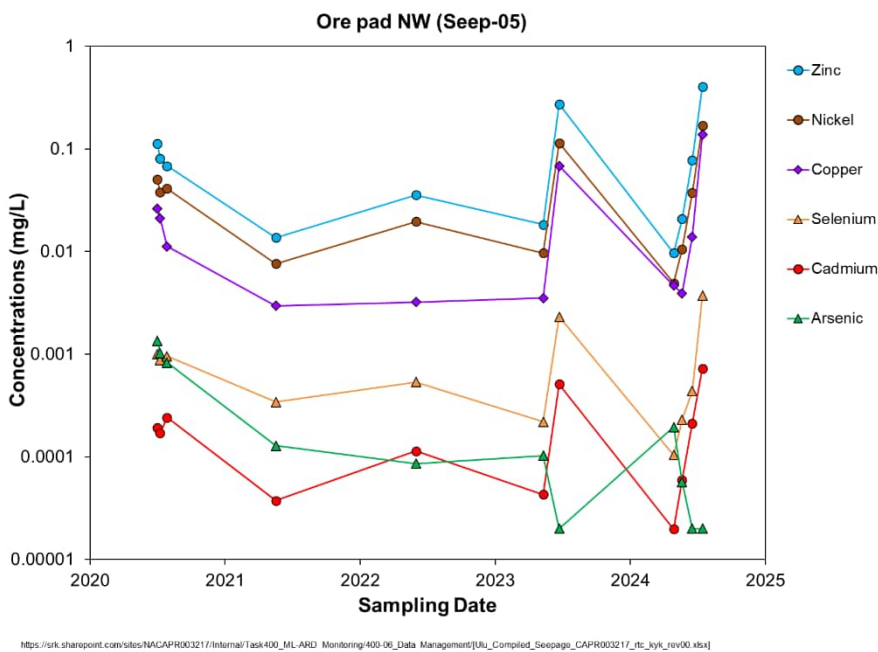


Figure 5-23. Seep-05 ore pad seepage trace elements.



5.3 Waste Rock-Portal Pad Area and Landfill

5.3.1 Drainage Paths

Numerous seeps have been identified since 2021, that drain south from the base of the waste rock-portal pad area and then down to East Lake (Figure 3-3; SRK 2024a). These include contact water seeps directly from the base of the pad, seeps that surface within the tundra, and sub-surface seepage that is audible beneath boulders. In addition, ULU-15 was established by Blue Star in 2020 as a compliance monitoring site at the downstream end of the culvert at the base of the landfill (landfill built in 2021). Flow from ULU-15 disappears into the tundra and is thought to re-surface down-gradient at Seep-02, which subsequently flows to East Lake.

There has been uncertainty; however, of the source of flow into ULU-15, and also if water may flow from the mine sump area and from stockpiled mineralized rock and waste rock around the portal, into the waste rock-portal pad. Some of the stockpiled rock is acid generating (SRK 2024a and see next section) and therefore could be a source of loadings to seepage downstream of the waste rock-portal pad.

Freshet conditions were directly observed by SRK and Blue Star in 2024. These observations were combined with review of photographs taken by Blue Star during the 2022 freshet. The observations are important due to zinc concentrations at ULU-15 being close to the Water License criteria in 2023, and also to help determine management priorities for rock in the mine sump and portal area.

The observations indicated the following during freshet at the waste rock-portal pad and landfill area:

- Snowmelt in the portal and mine sump area collects in the portal pond (ULU-4a), the mine sump (ULU-4b), and a third temporary pool (Pool-4c), illustrated in photographs in Figure 5-27 to Figure 5-26 and on an aerial drone image of the area in Figure 5-27.
 - The portal pond was predominantly frozen at freshet, but some water was present, and the water level was high extending out of the pond southeast towards the adjacent road and mine sump berm. No flow from the portal pond was observed.
 - The mine sump pond was partially filled with snow at freshet. Seepage from the base of the mine sump berm was observed to flow along the north side of the adjacent road and then south across the road and into the roadbed (up-gradient of Seep-02). It is unclear if the seepage from the mine sump berm had flowed through the berm from the mine sump, or along the berm from water extending out of the portal pond.
 - Temporary Pool-4c had not previously been recognized but had high water level on May 22, and the water level had dropped to almost empty by May 28, with audible flow to the south/southeast beneath the adjacent road (up-gradient of Seep-02). Pool-4c was in contact with adjacent stockpiled mineralized rock when the water level was highest, and with strongly oxidized fill in the berm along the edge of the road.
- As snow cover on waste rock and mineralized rock in this area melts, the contact water is expected to drain into all three of these ponds. Conditions at freshet are, however, expected to be dilute.

- There is potentially a flow path from Pool-4c to ULU-15 as the road in between was saturated, and the ditch at the base of the landfill contained visible flow to the ULU-15 culvert (Figure 5-27). This ditch also contains waste rock. Run off and seepage through the sand-covered landfill is also expected to be a source of drainage into ULU-15, although much of the snow on the landfill had already melted when observations at ULU-15 were made.
- Other much smaller pools and flowing water were observed at a few locations on the waste rock-portal pad, as shown on Figure 5-27. Also, meltwater from west of the portal pond area flows south across the road and into the waste rock-portal pad. Strongly oxidized waste rock is stockpiled on the west side of the portal pond, that was still snow-covered when observations were made.

To summarize, it is apparent that contact water from waste rock (in stockpiles and berms) and stockpiled mineralized rock, in the portal area has the potential to flow through/across the adjacent road and/or the waste rock-portal pad, or into Pool-4c, and then into down-gradient seepage. Pool-4c has some potential to drain to ULU-15, but the majority of water was audibly draining south through the road and tundra, down towards Seep-02. Seep-02 mostly upwells from the tundra (Figure 5-28), approximately 100 m south and down-gradient of ULU-15. The portal pond (ULU-4a) appears unlikely to have been a source of water to downstream seepage in 2024. The mine sump (ULU-4b) could be a source of seepage as seepage from the berm was observed, but visible flow was just a trickle.

Figure 5-24. Frozen Portal Pond (ULU-4a, May 19, 2024) Looking NW, and Pooled Water Extending South to the Adjacent Road in the Foreground.



Figure 5-25. Snow Filled Mine Sump Looking NE (May 22, 2024).



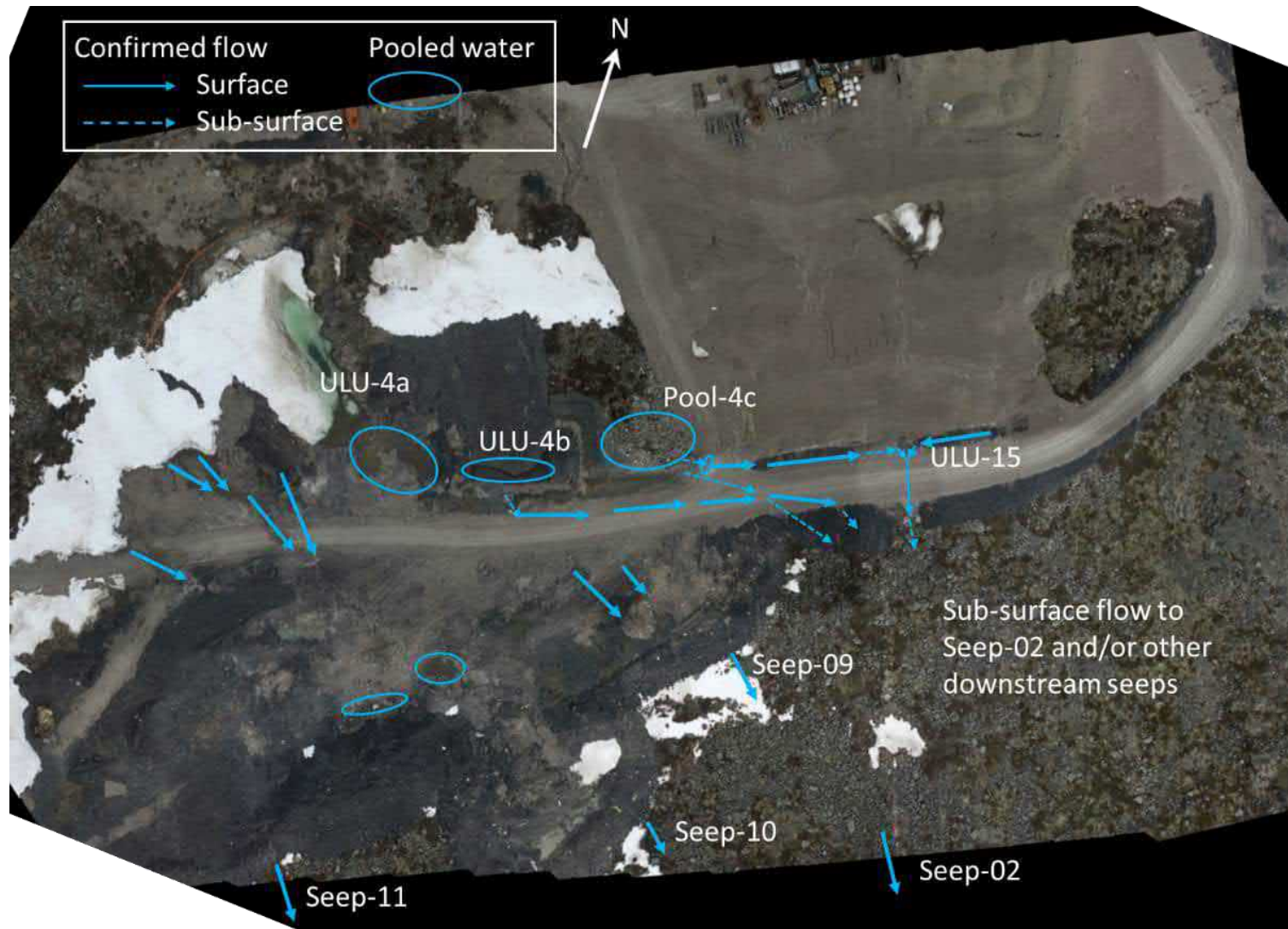
Notes: Mine sump berm in the foreground. Stockpiled mineralized rock to the left and far centre. Sand covered landfill in the background.

Figure 5-26. Temporary Pool-4c (May 26, 2024), Looking ENE from the Mine Sump Berm Towards the Landfill.



Notes: Pool is approximately 15 m long. Water level was almost at the top of the highest boulder four days prior to this.

Figure 5-27. Freshet Flow in the Waste Rock-Portal Pad Area.



Source: https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-07 Data Interpretation/ Portal area freshet water flow_kk.pptx

Notes: Drone image from Blue Star June 2, 2024. View is approximately 350m across the longest axis.

Figure 5-28. Seep-02 at Freshet, Looking NW/Up-Gradient Towards the Waste Rock-Portal Pad Area.



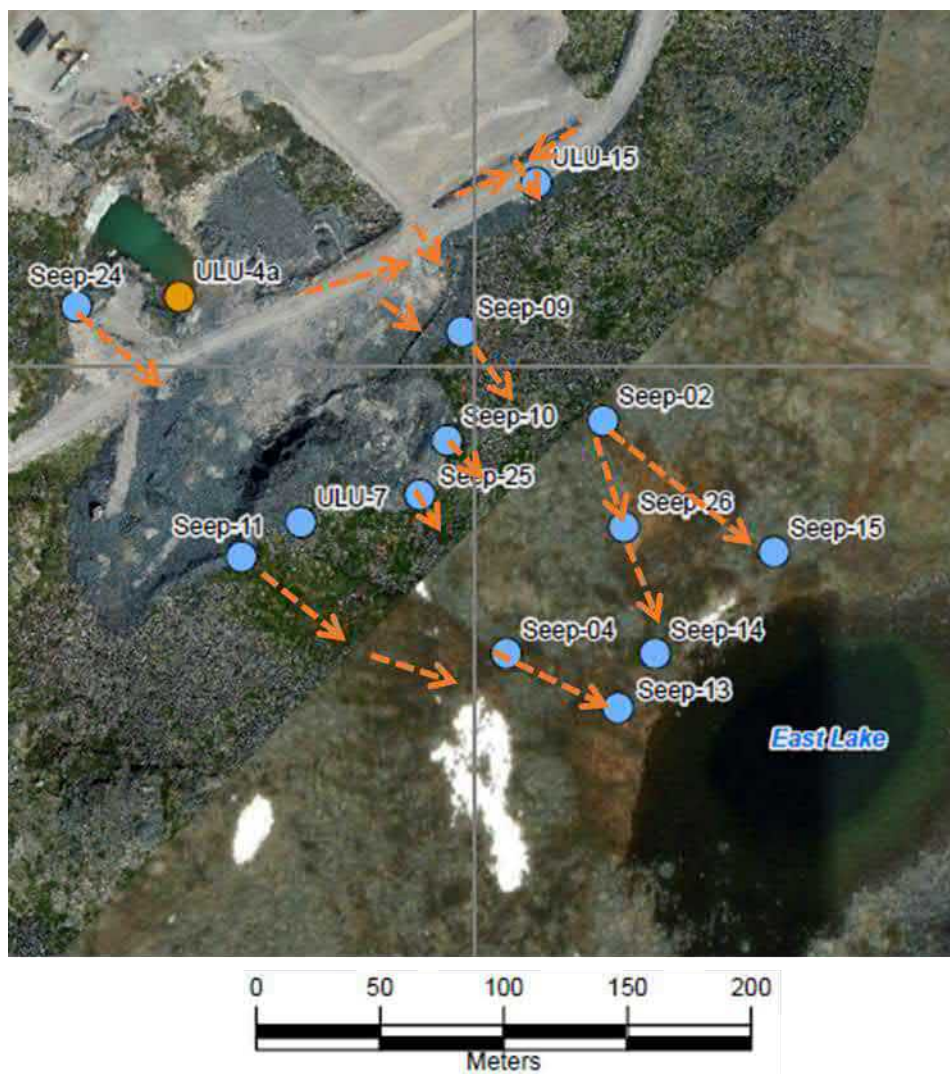
Notes: Arrow tip shows location of flow out from the tundra

In addition to Seep-02, the other on-going monitoring site down-gradient from the waste rock-portal pad is Seep-13 (Figure 5-29). Both Seep-02 and Seep-13 have had observed flow much more frequently than ULU-7 during the 2021 to 2024 monitoring seasons (Figure 5-30).

Figure 5-29. Seep-13 Looking Up-Gradient Towards the Waste Rock Stockpile.



Figure 5-30. Generalized Flow Paths from the Waste Rock-Portal Pad Area to East Lake.



Source: [https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400--08_Reporting/Camp Pad and waste rock pad flow paths.pptx](https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD%20Monitoring/400--08_Reporting/Camp%20Pad%20and%20waste%20rock%20pad%20flow%20paths.pptx)

Notes: Based on observed or audible flow between 2021 and 2024.

5.3.2 Rinse pH in the Waste Rock-Portal Pad Area

Rock present in the catchment includes:

- Small stockpiles of waste rock west of the portal pond and contained within the mine sump berm.
- Mineralized rock stockpiled above (east of) the portal pond and partially pushed into the mine sump.
- The waste rock-portal pad and waste rock stockpile.
- Rock fill along the road south of the landfill.
- Rock fill along the top (north) edge of landfill, now covered in sand (e.g., in TP-01 from 2020).

Previous rinse pH results indicated that:

- Stockpiles between 25 m and 40 m west of the portal pond, and rock in the mine sump berm were strongly oxidized/orange and acid generating (rinse pH 3.2-3.6, SRK 2024a).
- The waste rock-portal pad had variable rinse pH between 3.6 and 8.4, with orange acid generating rock encountered in one test pit from surface down to 1.4 m, whereas other test pits contained thin (up to 20 cm thick) layers of orange acid generating rock underlain by grey rock with circum-neutral rinse pH (SRK 2024a).
- Rinse pH of stockpiled mineralized rock had apparently declined from pH 6.2 to 7.7 in 2021 (n=3), to pH 4.2 in 2023 (n=2), although this was based on a small sample population (SRK 2024a).
- The waste rock stockpile on the waste-rock-portal pad has not been excavated to determine weathering condition or rinse pH.

2024 Rinse pH Results

The 2024 samples and photographs are provided in Appendix B. The rinse test results for the portal area collected in May and June 2024 are presented in Table 5-2, and rinse pH versus rinse conductivity are plotted in Figure 5-31 with samples collected from 2020 to 2024.

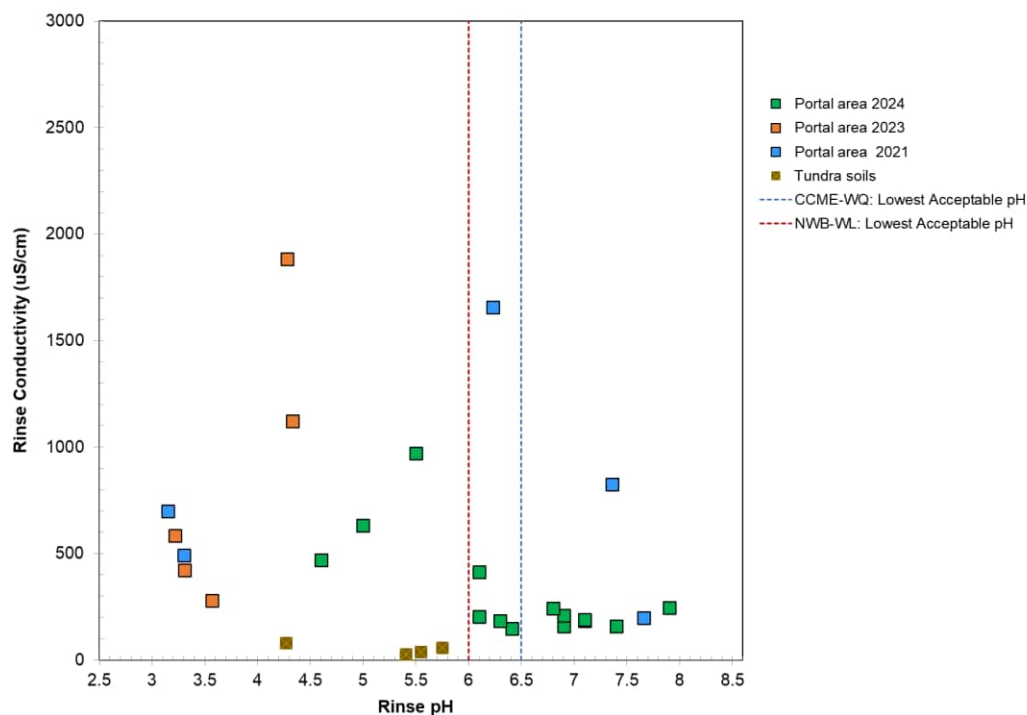
Samples collected from the east side of the portal area in 2024 (n=13) had rinse pH values ranging from 4.6 to 7.9 (average = 6.4). Samples at TP24-01 had acidic rinse pH values (<5.0), and samples from TP24-02 and TP24-07 were mildly acidic (rinse pH between 5.0 and 6.5), all other samples were circum-neutral (n=7). The rinse conductivities that corresponded to the circum-neutral rinse pH samples ranged from 160 to 250 $\mu\text{S}/\text{cm}$, whereas the samples that were slightly acidic to acidic (pH < 6.5) had rinse conductivities that ranged from 180 to 970 $\mu\text{S}/\text{cm}$. The 2024 results contrast the rinse pH results from 2023 (TP23-12, TP23-18), which had much lower rinse pH (~4.3). TP24-01 rinse pH was comparable to TP23-12 (Figure 3-2). This indicates that there is a large degree of variability in the rinse pH of mineralized rock from the portal pond area and the stockpiled mineralized rock has not all shown a pH decline between 2021 and 2023/2024.

Table 5-2. 2024 Rinse Test Results for Portal Area.

Area	Test Pit	Sample	Sample Depth (cm)	Colour of <2mm Sieved Rock Fraction	Rinse pH	Rinse Conductivity (µS/cm)
Portal area (East of Portal Pond)	TP24-01	1A	20-25	Brown	4.6	470
Portal area (East of Portal Pond)	TP24-01	1B	35-40	Brown	5.0	630
Portal area (East of Portal Pond)	TP24-02	2A	20-25	Brown	6.1	410
Portal area (East of Portal Pond)	TP24-02	2B	30-35	Brown	5.5	970
Portal area (East of Portal Pond)	TP24-03	3A	25-30	Grey	7.4	160
Portal area (East of Portal Pond)	TP24-04	4A	20-26	Brown/Grey	6.9	160
Portal area (East of Portal Pond)	TP24-04	4B	30-35	Brown/Grey	7.9	250
Portal area (East of Portal Pond)	TP24-06	6A	30-35	Grey	6.9	210
Portal area (East of Portal Pond)	TP24-06	6B	40-45	Grey	7.1	180
Portal area (East of Portal Pond)	TP24-07	7A	30-35	Brown/Grey	6.3	180
Portal area (East of Portal Pond)	TP24-07	7B	40-45	Brown	6.1	200
Portal area (East of Portal Pond)	TP24-08	8A	30-35	Grey	7.1	190
Portal area (East of Portal Pond)	TP24-08	8B	40-45	Brown/Grey	6.8	240

Source: SRK Consulting\NA CAPR002649 Ulu Reclamation SOW 2023 - Internal\Task100_ML-ARD\160_Data management\Rinse test results compiled_UluCamp_KYK_Rev01.xlsx

Figure 5-31. Rinse pH vs Rinse Conductivity for 2024 Portal Area Samples.



[https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-06_Data Management/\[Rinse test results compiled_UluCamp_CAPR003217_KYK_Rev01.xlsx\]](https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-06_Data Management/[Rinse test results compiled_UluCamp_CAPR003217_KYK_Rev01.xlsx])

5.3.3 Waste Rock-Portal Pad Area and Landfill Seepage Results

In 2024, seepage sampling occurred at ULU-15, Seep-02, and Seep-13 at the waste rock-portal pad and landfill areas (Figure 5-32 to Figure 5-43). Water samples were also collected at the Portal Pond (ULU-4a; June, July), Mine Sump (ULU-4b; May, June), and the seasonal pool Pool-4c (May). All waste rock-portal pad and landfill seepage charts including the water quality limits are provided in Appendix C (Figures C39–C76).

pH and Conductivity Trends in 2024

Measured pH at ULU-15, Seep-02, and Seep-13 ranged from 6.3 to 7.5 and the pH trends were generally consistent with previous monitoring years (Figure 5-32, Figure 5-36, Figure 5-40). The exception to this was pH measured in May at Seep-13, with a pH of 6.3 being recorded (predominantly reflecting snowmelt); however, pH increased in June to 7.3 and remained above pH 7.0 for the rest of summer season. The pH at ULU-4a,b, and Pool-4c ranged from 6.7 to 7.5. The lower pH values downstream are consistent with the pH conditions observed in the tundra reference stations (pH 6.4 to 6.9) reflecting the influence of water flowing across the tundra. pH results currently indicate a lack of ARD from the waste rock-portal pad and landfill area.

Conductivity measurements increased through the summer months in 2024 at the monitored seeps. Electrical conductivity at Seep-02 and Seep-13 were similar to each other and ranged from 66 to 621 $\mu\text{S}/\text{cm}$. Whereas electrical conductivity at ULU-15 was typically higher compared to the other two seeps and increased from 472 $\mu\text{S}/\text{cm}$ in May to 753 $\mu\text{S}/\text{cm}$ in June. Electrical conductivity measured at ULU-4a,b, and Pool-4c ranged from 190 to 340 $\mu\text{S}/\text{cm}$ and was consistent with measurements from previous years at ULU-4a (ranging from 180–230 $\mu\text{S}/\text{cm}$).

Major Ions

During 2024, the major anions present in seepage were sulphate, alkalinity, and chloride. In terms of molar equivalent proportions sulphate and alkalinity were the dominant anions at ULU-15 (Figure 5-32, Figure 5-33), Seep-02 (Figure 5-36, Figure 5-37) and Seep-13 (Figure 5-40, Figure 5-41). Sulphate comprised 51% to 80% of the total anions, followed by alkalinity (9–47%) and then chloride (2–13%). At all three locations the proportion of alkalinity decreased throughout the summer months, while the molar proportion of sulphate increased. However, the concentrations of sulphate and alkalinity increased through the season. Sulphate concentration at all three seeps have been generally similar between 2024 and the previous years of monitoring with the greatest variation occurring within a season (reflecting dilution at freshet) and increasing concentrations through the season as up-gradient rock thawed and sulphate derived from sulphide oxidation was being leached.

Chloride concentrations were below the CCME water quality guideline in 2024, and only one sample exceeded the BC water quality guideline for sulphate (218 mg/L) in 2024 (240 mg/L SO_4 in ULU-15 in June).

Calcium was the predominant major cation present at ULU-15, Seep-02, and Seep-13 followed by magnesium, sodium, and potassium. Calcium and magnesium together proportionally made up 73 to 92% of the total cations. Sodium was proportionally lower at these monitoring locations typically ranging from 4 to 13%, except for one sample at Seep-13 (August) where the molar proportion of sodium was 21%. Cation concentrations at all three monitoring locations gradually increased through the summer months.

Sulphate and chloride concentrations at the portal pond (ULU-4a), mine sump pond (ULU-4b) and seasonal pond (Pool-4c) were below the CCME water quality guidelines for chloride and BC water quality guidelines for sulphate. Anion concentrations and molar proportions at ULU-4a in 2024 were similar to previous years, where sulphate was the dominant anion (44–51%) followed by nearly equimolar proportions of alkalinity (22–25%) and chloride (26–31%). Similarly, cation concentrations and molar proportions in 2024 followed historic water quality trends at ULU-4a. Cation molar proportions followed the order: calcium (55%), sodium (23–25%), magnesium (18–19%), and potassium (3%). As described in Section 5.2.3, the presence of chloride in some of the seepage appears to be related to use of sodium chloride during portal development and ore extraction (Klohn-Krippen 1998). Saline water was present in the portal pond when samples were analyzed in 2020 and 2021, and similarly chloride was present in Seep-24 close to the portal in 2023.

ULU-4b and Pool-4c were only sampled in May and early June in 2024. Unlike ULU-4a, anion molar proportions at ULU-4b and Pool-4c were dominated by sulphate (66–78%) with alkalinity (18–32%),

with chloride (2–4%) being present at lower proportions. Calcium and magnesium composed 91 to 92% of the cation molar proportions at ULU-4b and Pool-4c. Cation and anion concentrations at ULU-4b increased between May and June, and had similar concentration and molar proportions as observed at Seep-02. This is consistent with observations of flow during freshet (Section 5.3.1) and suggests that a portion of ULU-4b drains towards Seep-02.

Trace Ions

Seasonal trends for trace element concentrations are shown for ULU-15 (Figure 5-34, Figure 5-35), Seep-02 (Figure 5-38, Figure 5-39), and Seep-13 (Figure 5-42, Figure 5-43). None of these seeps exceeded the NWB water licence limits. The following were above the CCME water quality guidelines in 2024 samples:

- Aluminum at Seep-13 (May).
- Arsenic at ULU-4b (May).
- Cadmium at ULU-15 (June) and Seep-13 (August).
- Copper at ULU-15 (May, June), Seep-13 (June, August), ULU-4a (June), and Pool-4c (May).
- Fluoride at ULU-15 (May, June) and Seep-02 (June, July).
- Zinc at ULU-15 and ULU-4a.

Background levels of aluminum, copper, and fluoride are naturally elevated in the Ulu area based on concentrations in the reference stations in 2022 and 2023.

Trace element concentrations at ULU-15 and Seep-02 tended to remain relatively constant through the season, except for a large decrease in zinc at ULU-15. Whereas trace element concentrations at Seep-13 increased through the summer months, except for aluminum and iron. Of note, zinc concentrations at ULU-15 were an order of magnitude lower in 2024 (0.014 mg/L in August) compared to 2023 (0.29 mg/L in August). The lower concentrations of zinc could be related to sampling ULU-15 upstream of the zinc galvanized culvert in 2024, compared to downstream of the culvert previously, or perhaps there was previously zinc release from the scrap metal that was placed in the landfill in 2021 and 2022; however, further monitoring is required to assess the trend in zinc at this location.

Scatter plots are presented in Figure 5-44 to Figure 5-46 to assess the source of the seepage at ULU-15 and the potential for the ponds in the portal area to influence seepage water quality (Figure 5-27). The portal pond (ULU-4a) is characterized by relatively high dissolved zinc concentrations and relatively low arsenic and sulphate concentrations. Comparatively, the mine sump pond (ULU-4b) has higher dissolved arsenic and sulphate concentrations, which is similar to previously measured water chemistry from Seep-16 (seepage flow through stockpiled mineralized rock, into the portal pond). This suggests that the mine sump pond is influenced by sulphide oxidation and arsenic leaching sourced from the nearby stockpiled mineralized rock and waste rock. It would be expected that the portal pond would behave similarly; however, dissolved constituents are generally lower reflecting more significant dilution in this much larger pond. The exception to this in the portal pond is zinc (0.13 to 0.21 mg/L), which may be sourced from leaching of submerged sources.

Seepage from the landfill measured at ULU-15 maintains higher sulphate concentrations compared to the portal pond and mine sump ponds, and overall has water chemistry reflecting sulphide oxidation of waste rock. It is unlikely that the mine sump pond (ULU-4b), or nearby temporary pond (Pool-4c) is a significant source of seepage to ULU-15 based on the measured water chemistry and the geometry of the landfill area, with drainage from these ponds instead expected to flow predominantly sub-surface to Seep-02. Waste rock is present along the northern edge of the constructed landfill (e.g., TP-01 in SRK 2021) buried below esker sand (~0.5 m) which may be a source of water with elevated sulphate, flowing sub-surface to ULU-15. Waste rock also occurs along the ditch at the base of the landfill, with flow observed at freshet to ULU-15. It is expected that waste rock oxidation at the northern and southern edges of the landfill will continue until further mitigation actions are taken.

Figure 5-32. ULU-15 Ore Pad Seepage pH and Alkalinity.

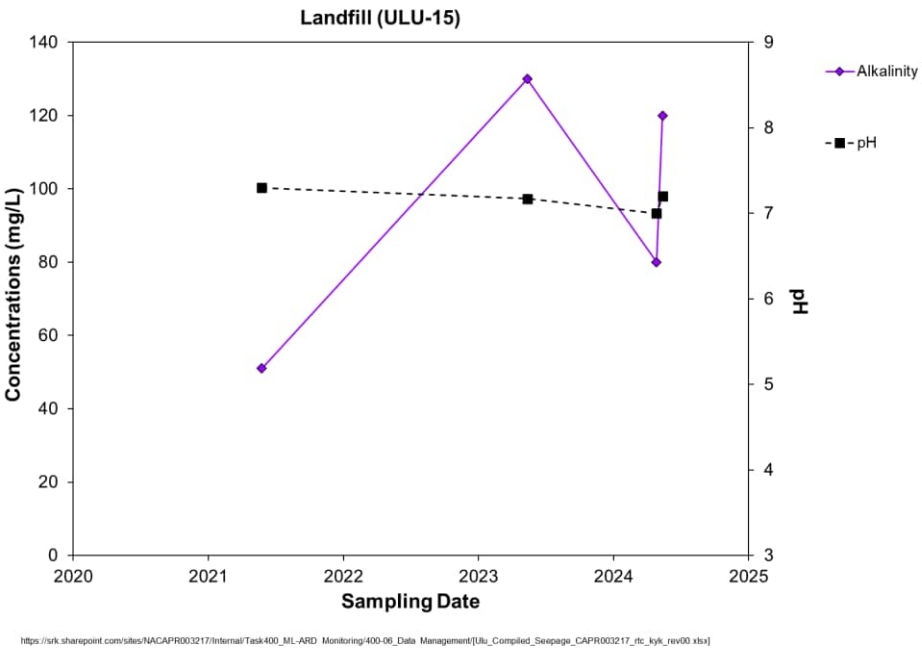


Figure 5-33. ULU-15 Ore Pad Seepage Major Cations and Anions.

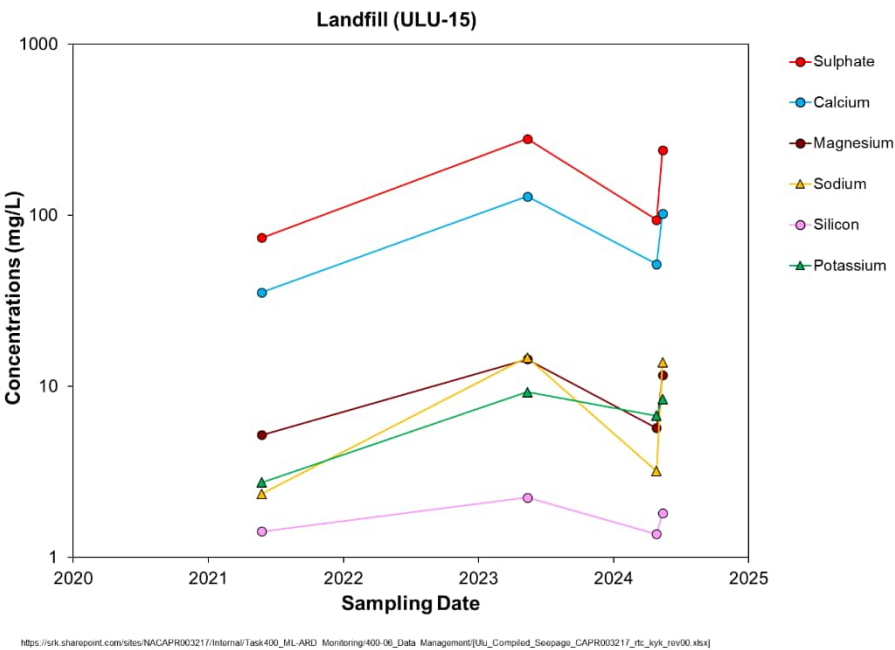


Figure 5-34. ULU-15 Ore Pad Seepage Oxyhydroxide Forming Elements.

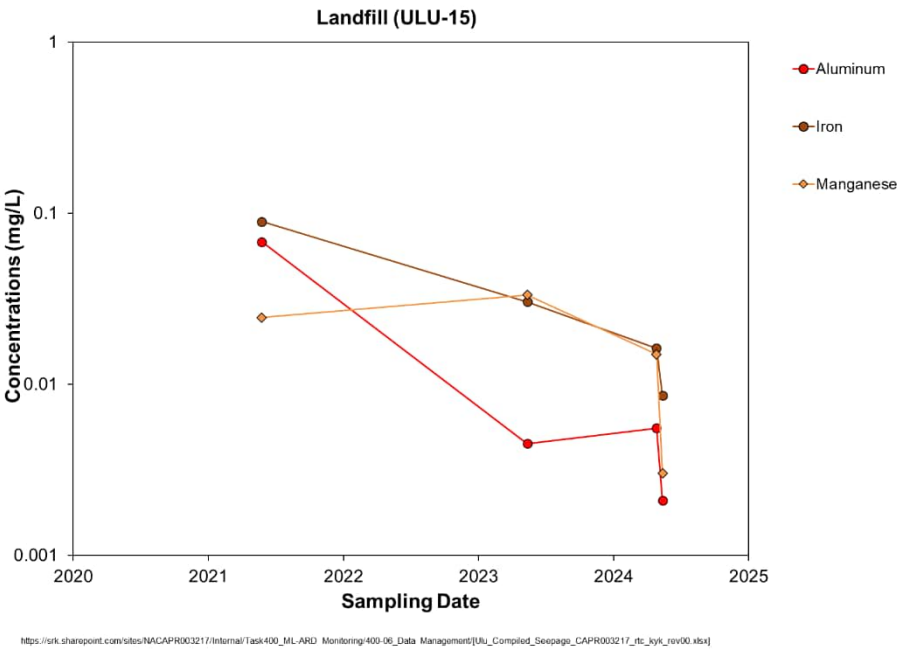


Figure 5-35. ULU-15 Ore Pad Seepage Trace Elements.

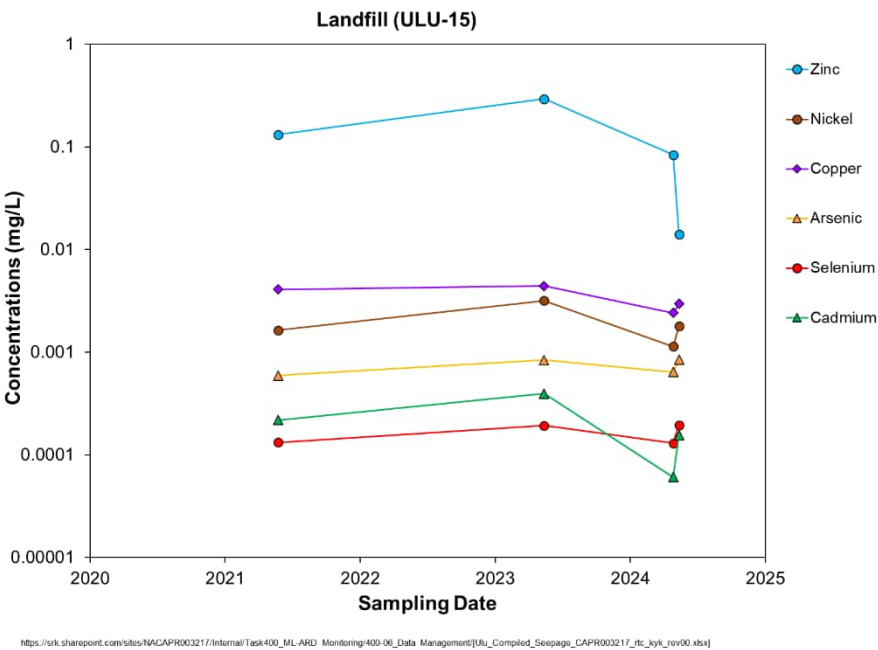


Figure 5-36. Seep-02 Ore Pad Seepage pH and Alkalinity.

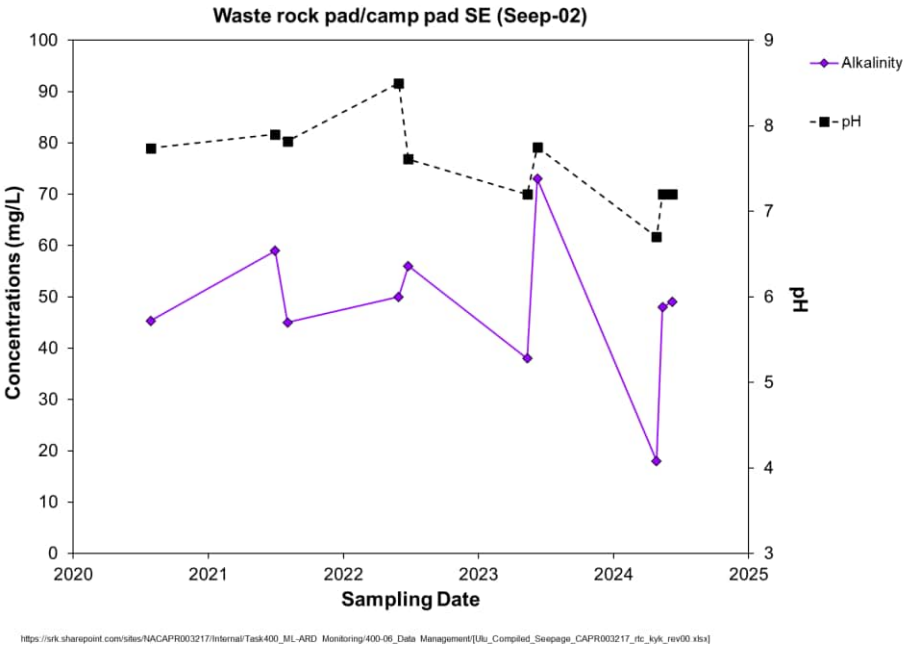


Figure 5-37. Seep-02 Ore Pad Seepage Major Cations and Anions.

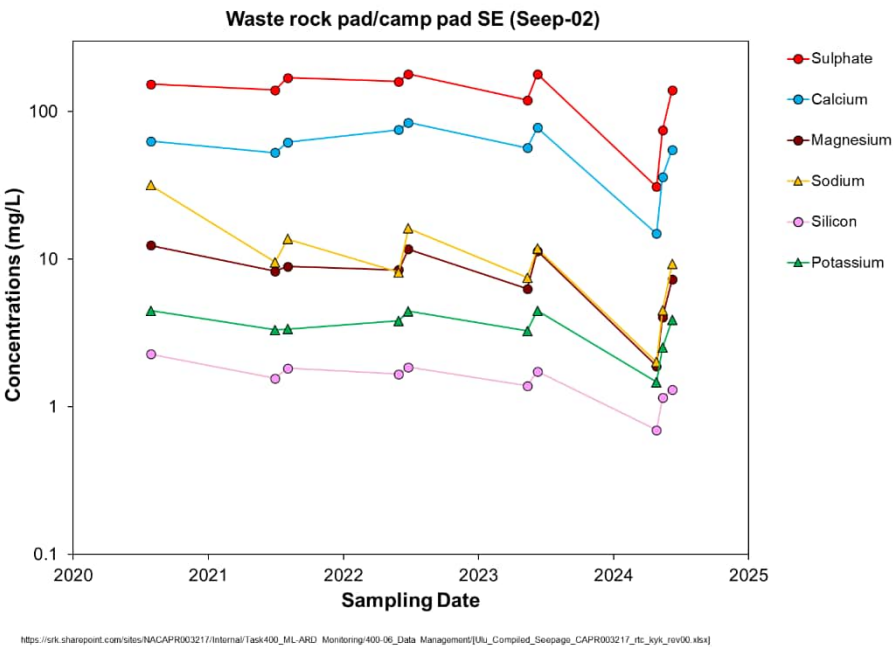


Figure 5-38. Seep-02 Ore Pad Seepage Oxyhydroxide Forming Elements.

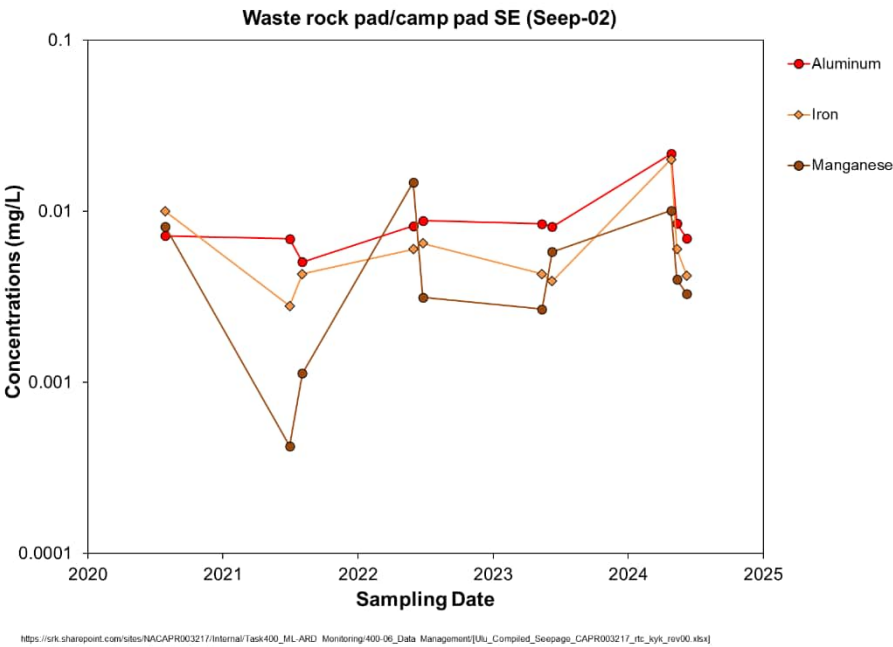


Figure 5-39. Seep-02 Ore Pad Seepage Trace Elements.

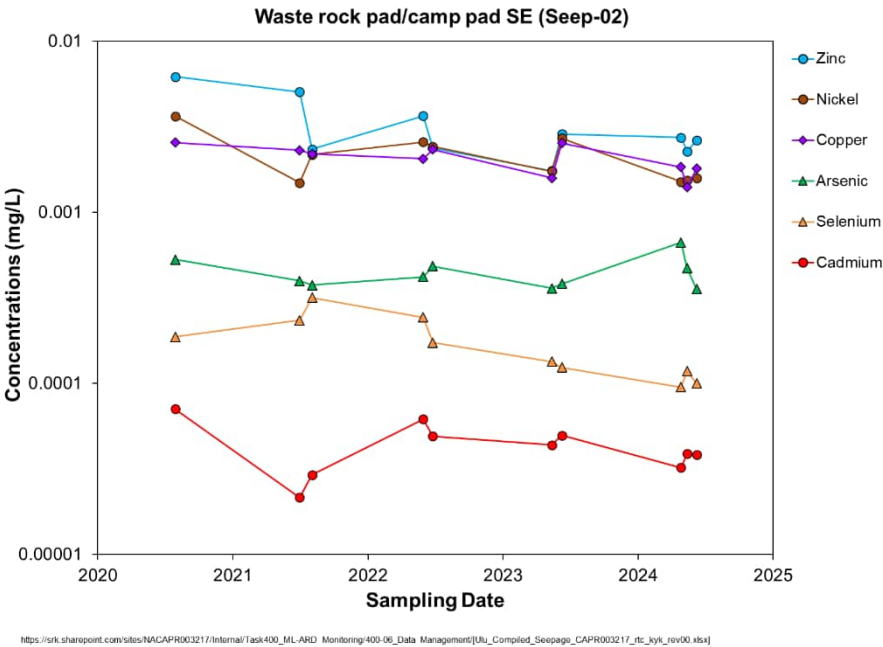


Figure 5-40. Seep-13 Ore Pad Seepage pH and Alkalinity.

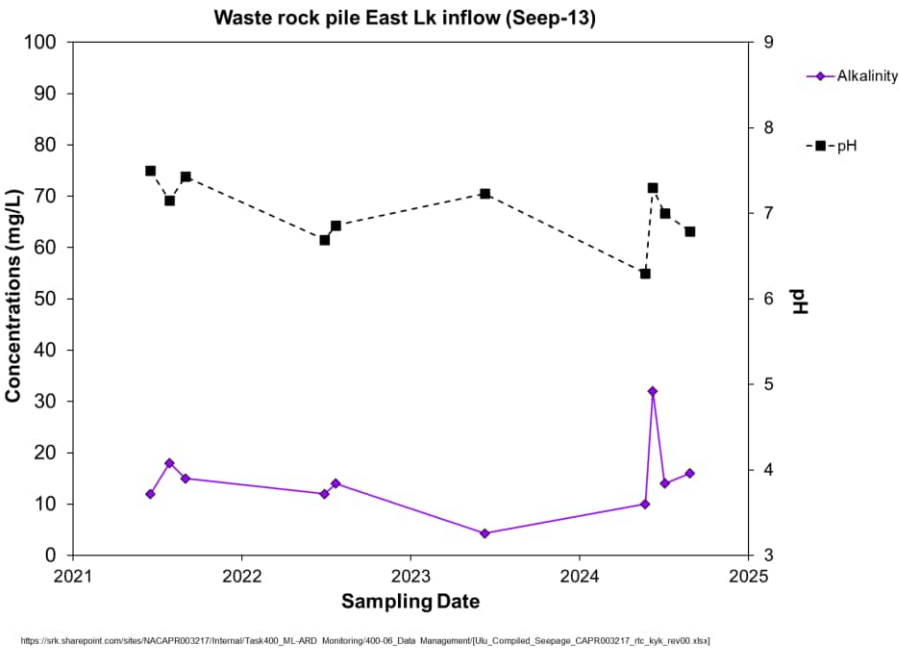


Figure 5-41. Seep-13 Ore Pad Seepage Major Cations and Anions.

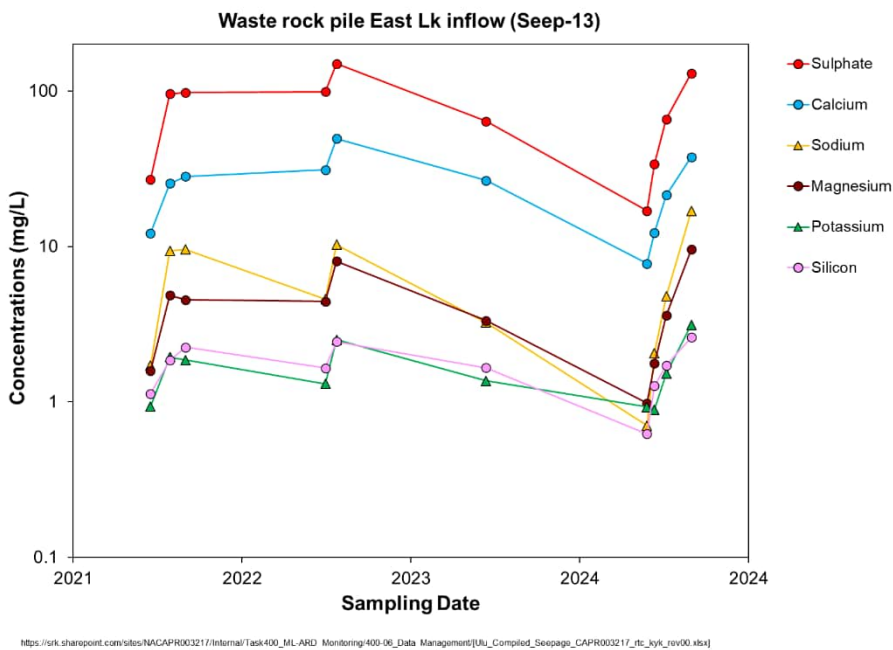


Figure 5-42. Seep-13 Ore Pad Seepage Oxyhydroxide Forming Elements.

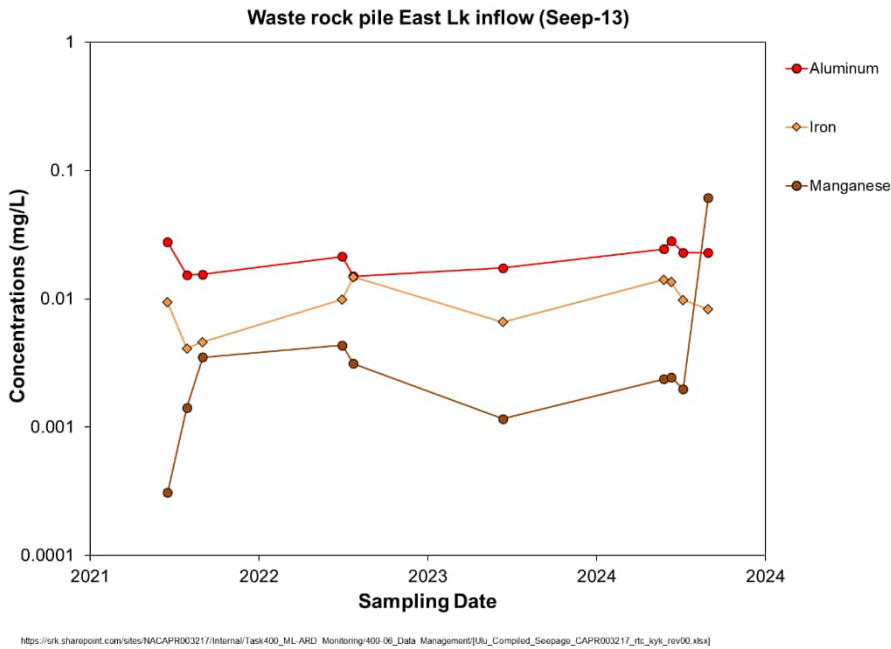


Figure 5-43. Seep-13 Ore Pad Seepage Trace Elements.

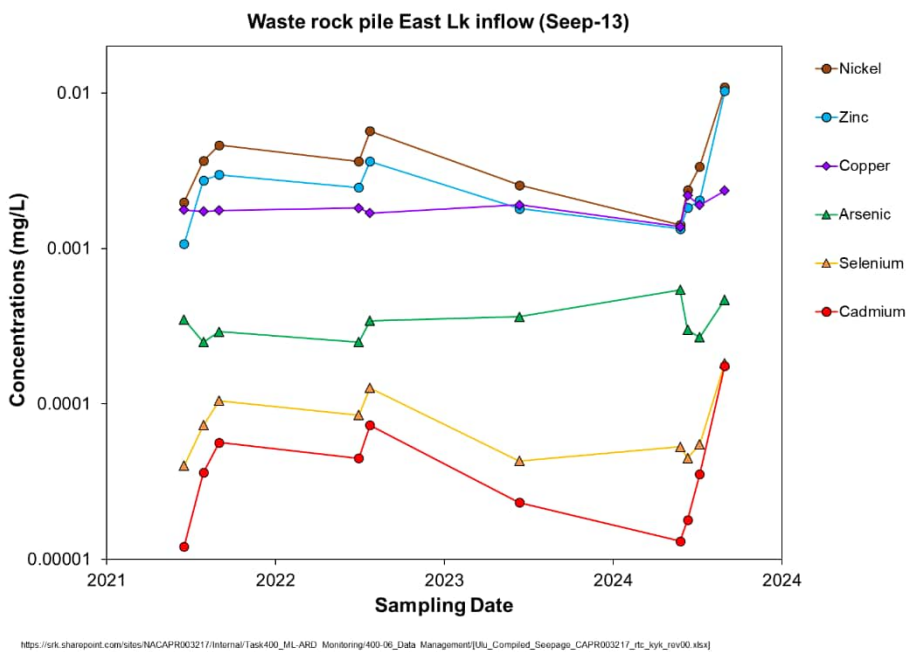
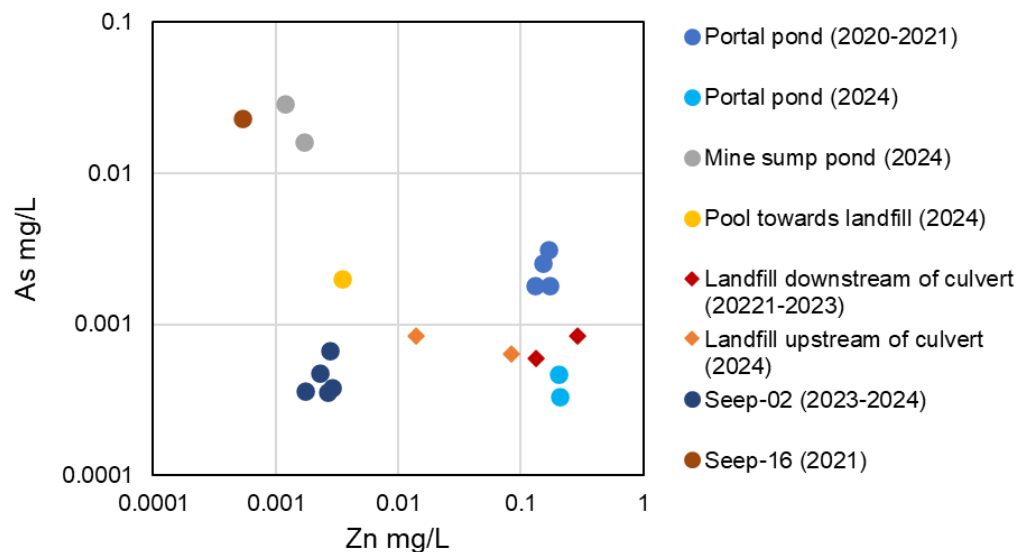
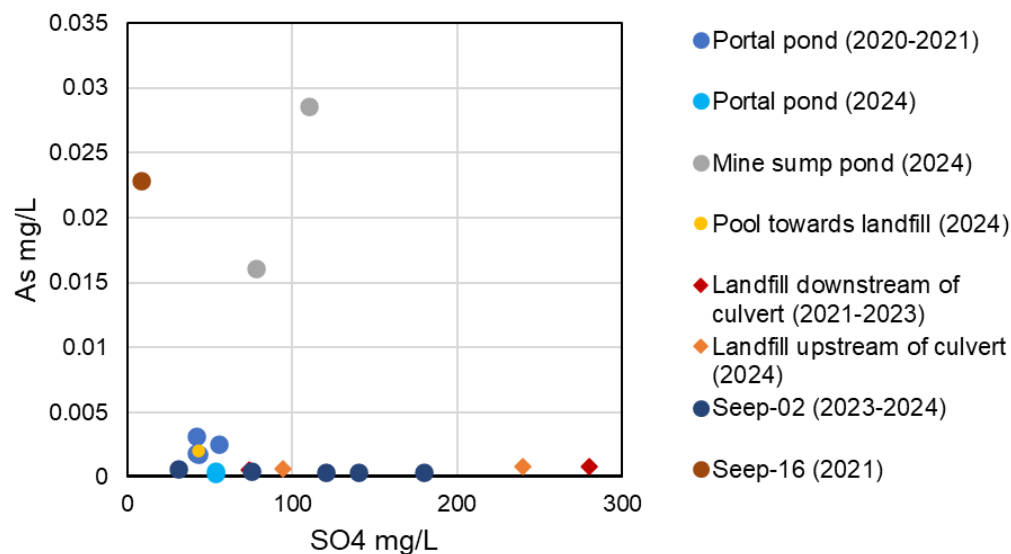


Figure 5-44. Arsenic Versus Zinc Concentrations for Portal Pond and Landfill Areas.



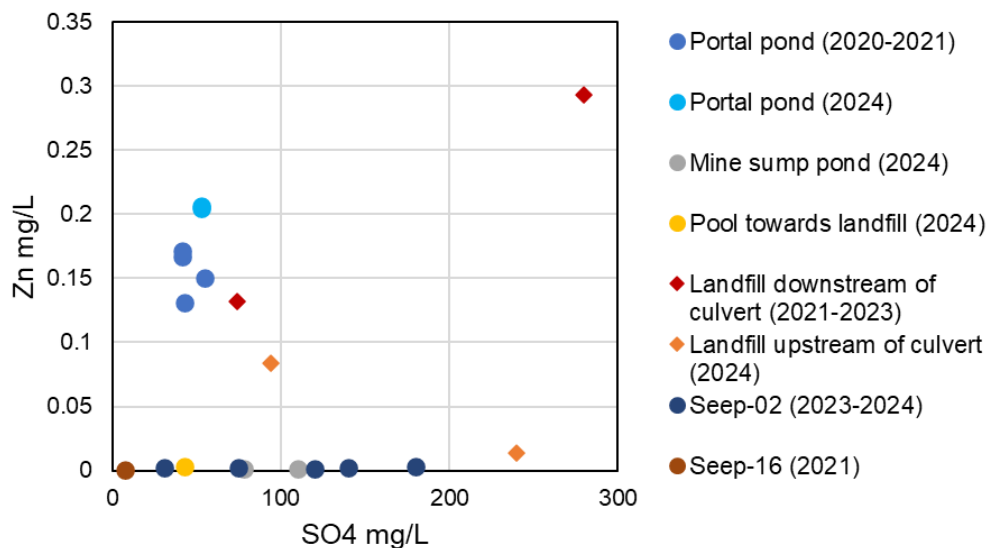
[https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-07 Data Interpretation/\[Ulu portal area-landfill SO4-As-Zn_kyk_Rev00.xlsx\]](https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD%20Monitoring/400-07%20Data%20Interpretation/[Ulu%20portal%20area-landfill%20SO4-As-Zn_kyk_Rev00.xlsx])

Figure 5-45. Arsenic Versus Sulphate Concentrations for Portal Pond and Landfill Areas.



[https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-07 Data Interpretation/\[Ulu portal area-landfill SO4-As-Zn_kyk_Rev00.xlsx\]](https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD%20Monitoring/400-07%20Data%20Interpretation/[Ulu%20portal%20area-landfill%20SO4-As-Zn_kyk_Rev00.xlsx])

Figure 5-46. Zinc Versus Sulphate Concentrations for Portal Pond and Landfill Areas.



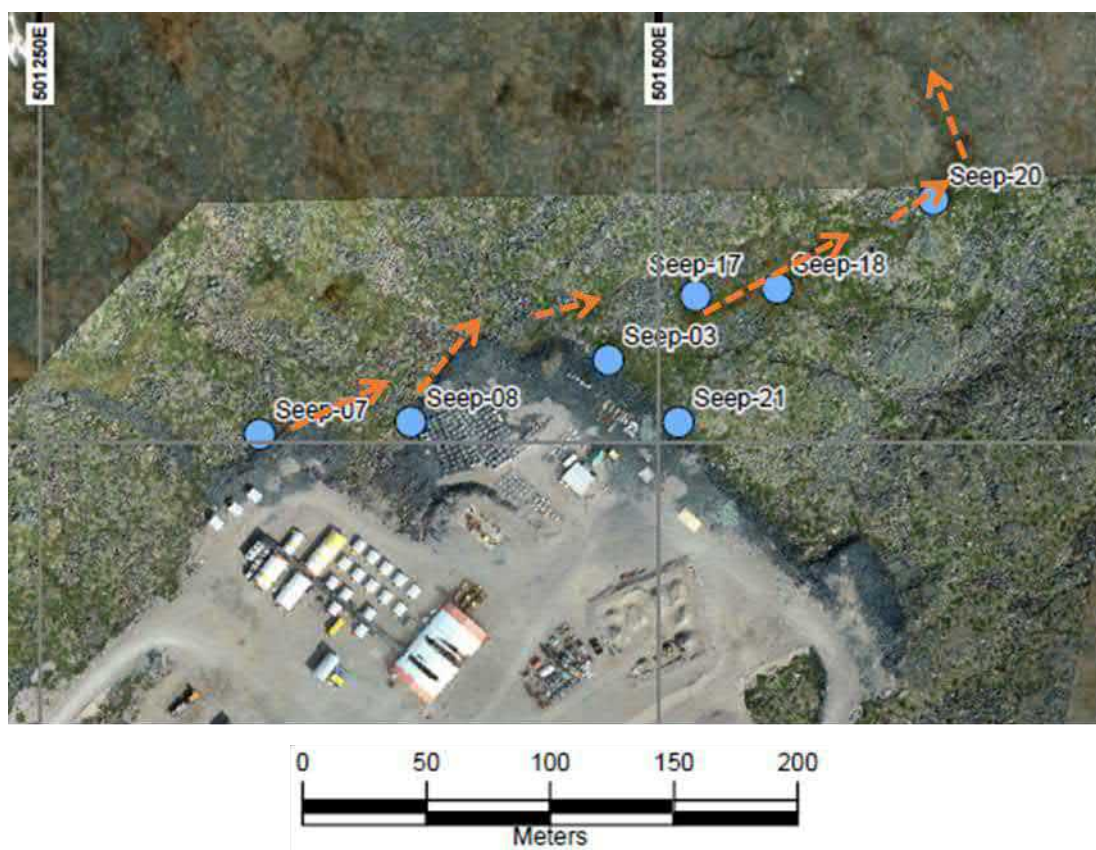
[https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400-07 Data Interpretation/\[Ulu portal area-landfill SO4-As-Zn_kyk_Rev00.xlsx\]](https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD%20Monitoring/400-07%20Data%20Interpretation/[Ulu%20portal%20area-landfill%20SO4-As-Zn_kyk_Rev00.xlsx])

5.4 Camp Pad North

5.4.1 Drainage Paths

Seepage from the north side of the camp pad drains to the northeast (Figure 5-47). Flow from Seep-07 and Seep-08 typically occurs at freshet, parallel to the edge of the pad, and is partially inaccessible beneath boulders. Flow surfaces at Seep-17, 35 m northeast of the pad where water upwells from a pool where a large boulder compresses the tundra. Surface flow occurs along the small valley which is also expected to capture drainage from Seep-03 and Seep-21 at the edge of the pad. Flow along this valley disappears into the tundra just beyond Seep-20 (approximately 200 m NE from the edge of the camp pad). Seep-17 and Seep-20 flow for much of the season. Only small standing water pools (<0.5 m across) amongst boulders have been observed at Seep-03 and Seep-21 since the monitoring program was formalized in 2021. On-going monitoring in this drainage is at Seep-17 shown in Figure 5-48.

Figure 5-47. Generalized Flow Paths from the North Side of the Camp Pad.



Source: [https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD Monitoring/400--08_Reporting/Camp Pad and waste rock pad flow paths.pptx](https://srk.sharepoint.com/sites/NACAPR003217/Internal/Task400_ML-ARD%20Monitoring/400--08_Reporting/Camp%20Pad%20and%20waste%20rock%20pad%20flow%20paths.pptx)

Notes: Based on observed or audible flow between 2021 and 2024.

Figure 5-48. Seep-17 Looking Up-Gradient Towards the Drill Core Storage Area of the Camp Pad.



5.4.2 Rinse pH in the Camp Pad

The camp pad is predominantly made from sand, and based on previous test pitting programs, rock present in this catchment just occurs along the north edge of the pad and in the drill core storage area. 2021 and 2023 rinse pH's from strongly oxidized orange to brown rock in three test pits in the drill core storage area were acidic at pH 3.1 to 3.7, with the thickness of this layer varying from 60 cm to 2 m. The acid generating layer was underlain by grey rock with higher rinse pH (pH 4.7, pH 5.7 or pH 7.8-7.9 depending on the test pit; SRK 2024a). A surface grab sample in 2021 had rinse pH of 2.9. Beneath 2 m this pad was still frozen in late July 2023, and it is unknown if it thaws to the base by the end of each season.

Elsewhere, rock within this catchment along the edge of the camp pad, had circum-neutral rinse pH except at the northwest edge of the camp pad (by the tents) where a 20cm thick intermittent near-surface orange oxidized layer had rinse pH of 3.4 in 2023 (SRK 2024a). No rinse pH testing was conducted in this area in 2024.

5.4.3 Camp Pad Seepage Results

In 2024, seepage sampling occurred at Seep-17 northeast of the camp pad area (Figure 5-49 to Figure 5-52). All camp pad seepage charts, including comparison to water quality limits, are provided in Appendix C (Figures C77–C114).

pH and Conductivity Trends in 2024

Measured pH at Seep-17 ranged from 6.6 to 7.1, with the lowest pH being measured in early August (Figure 5-49). Conductivity measurements increased over the summer months from 112 $\mu\text{S}/\text{cm}$ to 634 $\mu\text{S}/\text{cm}$, which is consistent with previous seasonal monitoring data at this location. The lower pH values are consistent with the pH measured in the tundra reference stations (pH 6.4 to 6.9) reflecting the influence of water interacting with the tundra, however, conductivity is significantly higher than background (Figure 5-49). pH results currently indicate a lack of ARD from the camp pad.

Major Ions

Similar to previous monitoring years, major anions and cations (Figure 5-50) were lowest at freshet and increased through the summer months at Seep-17. In terms of molar proportions, sulphate comprised 59% to 71% of the total anions, followed by alkalinity (23–35%) and then chloride (4–10%). Chloride and sulphate concentrations were below water quality guidelines in 2024. Sulphate increased from 25 to 210 mg/L and alkalinity increased from 9 to 80 mg/L, both suggesting that as more waste rock thawed through the season, buffering capacity increased in tandem with sulphide oxidation.

Calcium was the predominant major cation present at Seep-17 followed by magnesium, sodium, and potassium. Calcium and magnesium together proportionally made up 87 to 92% of the total cations.

Trace Ions

Seasonal trends for trace element concentrations are shown for Seep-17 in Figure 5-51 and Figure 5-52. None of the regulated parameters exceeded the NWB water license limits at Seep-17. Copper and fluoride exceeded the CCME water quality guidelines in 2024 samples; however, background levels of copper, and fluoride are naturally elevated in the Ulu area based on concentrations in the reference stations in 2022 and 2023. All other trace elements were below the CCME water quality guidelines in 2024 samples. Trace element concentrations at Seep-17 tended to decrease between May and June before increasing in concentration again between July and August. This trend was not observed in previous monitoring years likely due to limited data towards the end of the season and no data in May. The drop in concentrations between May and June may reflect that snow takes longer to melt on the north side of the camp pad, so greatest dilution occurs in June rather than May.

Figure 5-49. Seep-17 Camp Pad Seepage pH and Alkalinity.

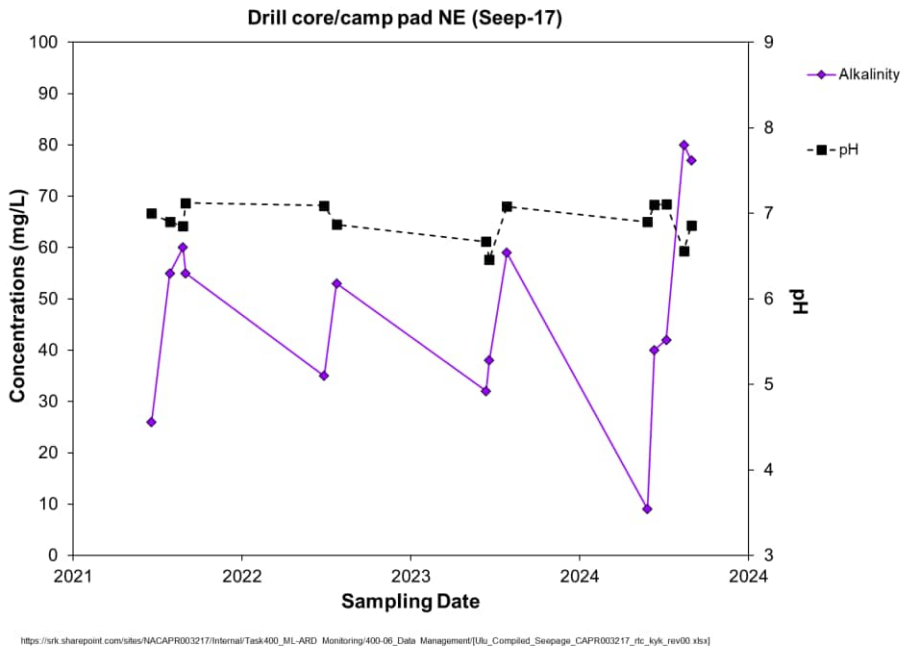


Figure 5-50. Seep-17 Camp Pad Seepage Major Cations and Anions.

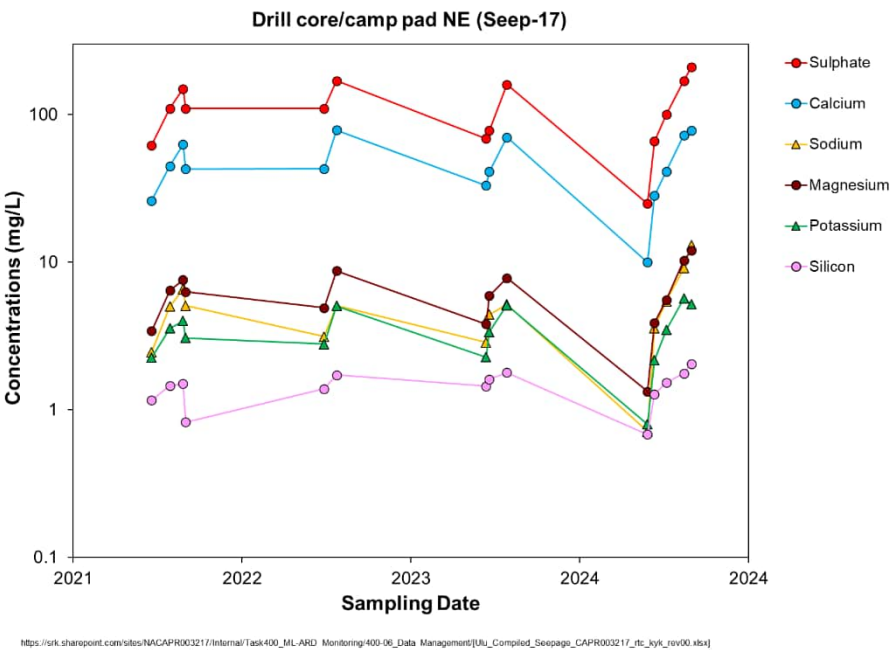


Figure 5-51. Seep-17 Camp Pad Seepage Oxyhydroxide Forming Elements.

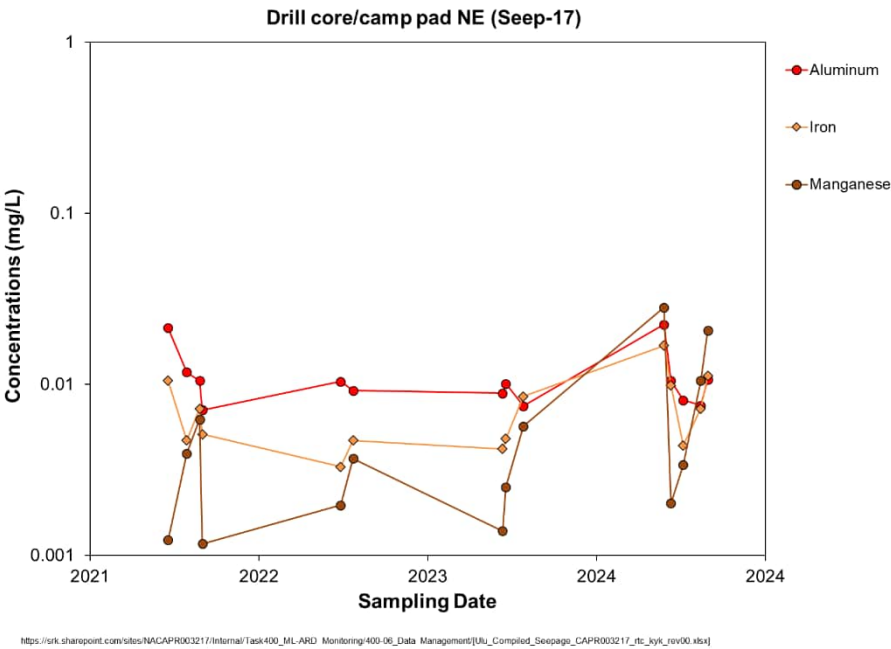
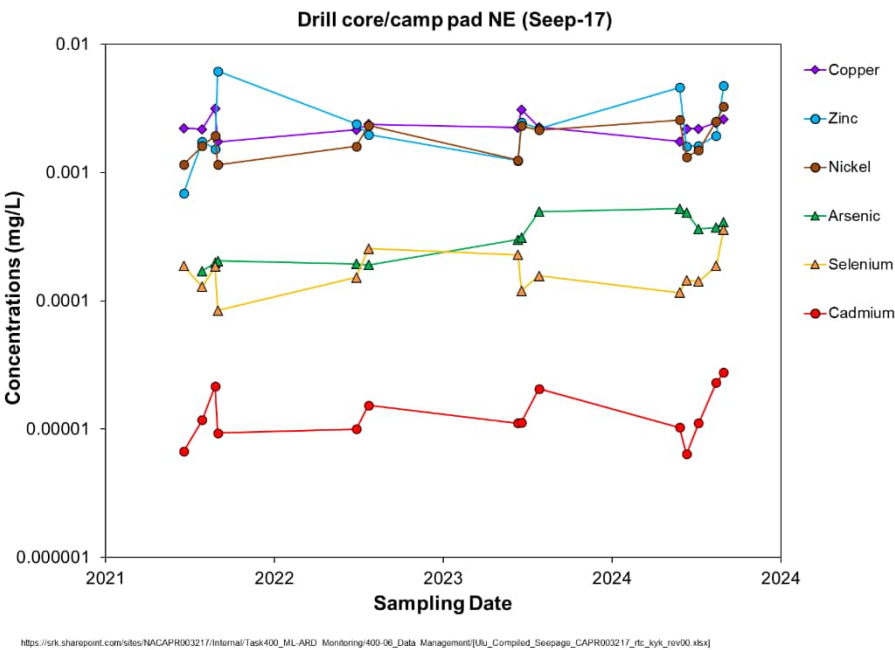


Figure 5-52. Seep-17 Camp Pad Seepage Trace Elements.



6 Summary and Conclusions

The 2024 monitoring program indicates the following regarding ARD:

- The south side of the ore pad, the waste rock-portal area and the camp pad are not at present generating ARD. Drainage from the camp pad, waste rock-portal pad area and the south side of the ore pad is currently (in 2024) being neutralized before it exits the pads. However, as carbonates continue to be depleted, the capacity for neutralization declines and ARD is expected to become more widespread without management of the rock.
- ARD is present seasonally (July/August) at the northwest edge of the ore pad and impacting the tundra through sub-surface drainage. Water quality has declined there since 2020; however, acid generating rock in this catchment was removed in August and September 2024.
- Rinse pH testing of grab samples from the northwest edge of the ore pad, as the rock was being excavated for relocation, indicated the rock (pH 2.9-6.4) and underlying tundra soil (pH 3.2-4.5) were dominantly acidic.
- Rinse pH tests on mineralized rock stockpiled above the portal pond had pH 4.6 to 7.9 (average 6.4, n=13). Combined with two results in 2023 of pH 4.3, this indicates that pH weathering conditions in the mineralized rock are highly variable (acidic and circum-neutral).

The 2024 monitoring program indicates the following regarding element leaching:

- Dissolved arsenic, copper, lead, nickel, and zinc were all below the maximum average and maximum grab sample effluent quality limits in the NWB water license in all the seepage monitored from the ore pad, camp pad, waste rock-portal pad area and landfill.
- Dissolved zinc was close to the NWB-WL effluent quality limit in ore pad seepage from the north edge of the ore pad. Zinc leaching has increased there since 2020. Zinc leaching in seepage at the south edge of the ore pad was lower than in 2023 but still the same order of magnitude as the effluent quality limit and is expected to get worse unless rock in the ore pad is managed.
- Aluminum, cadmium, copper, fluoride, iron, manganese, nickel, selenium, sulphate, and zinc were present in ore pad seepage at concentrations above background and above the water quality guidelines. Concentrations of most of these parameters would be expected to get worse if conditions became more acidic.
- Aluminum, arsenic, cadmium, copper, fluoride, sulphate, and zinc concentrations were above background and above the water quality guidelines at the waste rock-portal area.
- Zinc leaching in the landfill area (ULU-15) was an order of magnitude lower in June 2024 than the June 2023 high that was close to the NWB limit. This may be a result of switching to monitoring it upstream of the culvert (rather than downstream).
- Only copper and fluoride were above the water quality guidelines at the camp pad area, and were consistent with background concentrations for these parameters.

7 Recommendations

7.1 ML/ARD Management

SRK (2021) showed that 90% of the waste rock in the infrastructure pads was classified as potentially acid generating, therefore areas of the pads that currently contain circum-neutral pH rock will need managing to prevent ARD.

To reiterate estimates of timing of ARD onset for PAG rock, provided in SRK (2022b); based on calculations of site weathering rates, and measured ARD potential of the rock in the pads, delay to onset of ARD estimates for rock not covered in esker sand ranged from less than a year to six years (from 2020) for “worst case” material, depending on the depth, and six to 16 years (from 2020) for material with average ARD potential, again depending on the depth. Given that significant areas of rock are already generating acid, and these predictions are being realized, there is only a short window of opportunity to manage the PAG rock not covered in esker sand (and not already acidic) before widespread ARD is likely.

Therefore, SRK recommends the acid generating and potentially acid generating rock at Ulu be managed to prevent further development of ARD and acceleration of leaching of regulated parameters. Limiting pH decline in the infrastructure pads is necessary to avoid deterioration of water quality and remain compliant with the water license. As SRK (2024a) previously recommended, an ML/ARD management plan needs to be developed and implemented. The apparent trajectory of acidification indicates that acidification needs to be arrested this year to avoid impact to the surrounding environment from ARD.

Highest priority areas that need management are currently:

- Acid generating rock that was relocated from the north edge of the ore pad to the centre of the ore pad during 2024. Although this rock is no longer sitting directly on the tundra, it is currently at risk of developing more severely acidic conditions which could accelerate metal leaching and rapidly deplete carbonate from underlying rock in the ore pad.
- The southeast part of the ore pad where mineralized rock was previously stockpiled (this part of the ore pad is currently at high risk of exceeding the NWB effluent quality limit for zinc).
- The southern edge of the ore pad where there is limited sand cover (also at risk of generating ARD and more severe metal leaching).
- Mineralized rock (that is partially acid generating) stockpiled above the portal. Seepage drains into the mine sump pond (where the integrity of the liner is questionable), the portal pond, or a third adjacent temporary pond directly to the west which is thought to drain (sub-surface) to Seep-02 and then into East Lake.

Additional acidic rock that has the capacity to locally generate severe contact water chemistry, but water drains into the portal pond or into the waste rock-portal pad before it may exit the site, include:

- Waste rock just west of the portal pond and in the mine sump berm (seepage drains across the road into the waste rock-portal pad). Managing this rock may limit localized release of acidity and metals into water that drains into the waste rock-portal pad where it can contribute to depleting the neutralization capacity in that pad.

The drill core storage area has a significant volume of rock around pH 3 but due to the pads greater thickness (more than 3 m on the northeast side), it may remain frozen at the base providing some mitigation. Managing acid generating rock in this area is needed, but drainage chemistry is currently less problematic than ore pad drainage chemistry.

7.2 ML/ARD Monitoring

Table 7-1 shows the recommended seeps and frequency for on-going monitoring of ML/ARD conditions at Ulu (as recommended in SRK 2024a). It is recommended that ULU-15 be sampled upstream of the culvert (as in 2024) and not downstream (as in 2021 and 2023). Monitoring of the reference stations was also no longer considered necessary (SRK 2024a), as the reference station water chemistry is not expected to vary substantially and therefore the results from 2022 and 2023 are considered sufficient to represent background tundra water chemistry.

Table 7-1. Summary of On-going Seepage Monitoring Recommendations.

Area	Monitoring Location	Sampling Frequency	Additional Comments
Ore pad, southwest	Seep-01	At freshet, then after significant rainfall (as defined in the protocol), or monthly if there is no significant rainfall.	
Ore pad, northwest	Seep-05		
Ore pad, southeast	ULU-8A if flowing, otherwise ULU-8		Weekly checks of ULU-8A during July are recommended to identify if flow is present, associated with thawing of the pad at depth.
Camp pad, north	Seep-17	At freshet, then after significant rainfall (as defined in the protocol), or monthly if there is no significant rainfall.	Weekly checks of the edge of the camp pad upstream of Seep-17 during July/August are recommended to identify if direct flow out of the pad is present, associated with thawing of the pad at depth. If present, then sample this upstream flowing seepage too (monthly frequency).
Waste rock portal area, east	Seep-02	At freshet, then after significant rainfall (as defined in the protocol), or monthly if there is no significant rainfall.	
Waste rock portal area, west	Seep-13		

In addition to on-going seepage monitoring, the following are recommended to inform ML/ARD conditions for 2025:

- Regular rinse pH monitoring of the waste rock in the infrastructure pads, as per the rinse pH monitoring protocol (SRK 2022d), is no longer considered necessary for the following reasons:
 - The spatial distribution of acid generating rock in the pads and stockpiled mineralized rock has been well constrained between 2020 and 2024 and further test pits would be unlikely to add to this understanding or change the requirements for ML/ARD management that have been determined.
 - Excavating material on a regular basis could advance oxidation reactions by allowing increased oxygen ingress at test pit locations, given the limited size and depth of the infrastructure pads.
 - The excavation process can result in mixing of acidic layers near the surface of waste rock with pH neutral material at depth, which means the progression of acidic weathering conditions can no longer be established.
 - It is recommended; however, that rinse pH testing be performed on rock that is being relocated, on a few samples that represent the range of weathering/oxidation conditions present in the rock. Grab samples from the excavator bucket are sufficient.
- Conduct an EM-31 geophysical survey at the north and south side of the ore pad to identify the extent of the shallow sub-surface flow paths receiving loadings from mine rock. This is necessary because most of the flow out of the ore pad is sub-surface, and hence the extent of its impacts, or whether attenuation occurs close to the ore pad, is unknown.

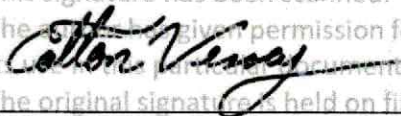
Closure

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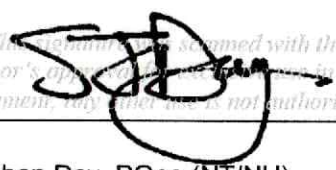

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SRK 2024b. Ulu Gold Project: Interim Acid Generating Rock Management - Consolidation and Cover Design. Appendix – Ground Temperature Data Analysis and Thermal Cover Modelling. Prepared for Blue Start Gold Corp. Project number: CAPR003217. In preparation.

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Appendix A Seepage and Rinse Test Sampling Coordinates

WGS84 UTM Zone 12N			Notes
Seep	Easting	Northing	
Seep-01	501162	7420747	
Seep-02	501551	7420979	
Seep-03	501480	7421283	Removed from monitoring
Seep-04	501512	7420885	Removed from monitoring
Seep-05	501071	7420847	
Seep-06	501540	7420721	Removed from monitoring
Seep-07	501338	7421254	Removed from monitoring
Seep-08	501399	7421259	Removed from monitoring
Seep-09	501494	7421015	Removed from monitoring
Seep-10	501488	7420971	Removed from monitoring
Seep-11	501405	7420924	Removed from monitoring
Seep-12	500934	7420797	Removed from monitoring
Seep-13	501557	7420863	
Seep-14	501572	7420885	Removed from monitoring
Seep-15	501620	7420926	Removed from monitoring
Seep-16	501387	7421054	Removed from monitoring
Seep-17	501514	7421310	
Seep-18	501547	7421313	Removed from monitoring as too close to Seep-17
Seep-19	499918	7415390	Camp 3, monitoring not required
Seep-20	501611	7421348	Removed from monitoring
Seep-21	501508	7421258	Removed from monitoring
Seep-22	501097	7420786	Removed from monitoring
Seep-23	501227	7420775	Removed from monitoring
Seep-24	501339	7421024	Removed from monitoring
Seep-25	501478	7420948	Removed from monitoring
Seep-26	501560	7420935	Removed from monitoring
ULU-4a	501381	7421028	
ULU-4b	501427	7421040	
Pool-4c	501453	7421052	
ULU-7	501429	7420938	
ULU-8	501252	7420805	
ULU-15	501524	7421075	
Loc-01	501467	7421309	Intermediate flow point from Seep-08 to Seep-18

Test Pit	Easting	Northing
TP24-01	501408	7421060
TP24-02	501418	7421064
TP24-03	501425	7421057
TP24-04	501418	7421049
TP24-06	501415	7421083
TP24-07	501402	7421074
TP24-08	501395	7421063
TP24-09	501123	7420848
TP24-10	501122	7420858
TP24-11	501102	7420849
TP24-12	501133	7420860
TP24-13	501133	7420849
TP24-14	501158	7420873

Appendix B Rinse Test Sampling Log

Location	Portal area (Above Portal East side)
Samples Collected	Depth (m)
TP24-01	0.40

Interval/sample	From (m)	To (m)	Description
	0	0.20	Brown rock
1A	0.20	0.25	Brown rock
1B	0.35	0.40	Brown rock



Photo 1: TP24-01



Photo 2: Sample before 2mm sieving

	Ulu ML/ARD Monitoring	Test Pits (May 2024) Photo Log	
		Test Pit TP24-01	
AppA_Ulu Test_Pit_Photo_Log_CAPR003217_Rev00.pptx		Date: March 2025	Appendix A

Location	Portal area (Above Portal East side)
Samples Collected	Depth (m)
TP24-02	0.35

Interval/sample	From (m)	To (m)	Description
	0	0.20	Brown rock
2A	0.20	0.25	Brown rock
2B	0.30	0.35	Brown rock



Photo 1: TP24-02

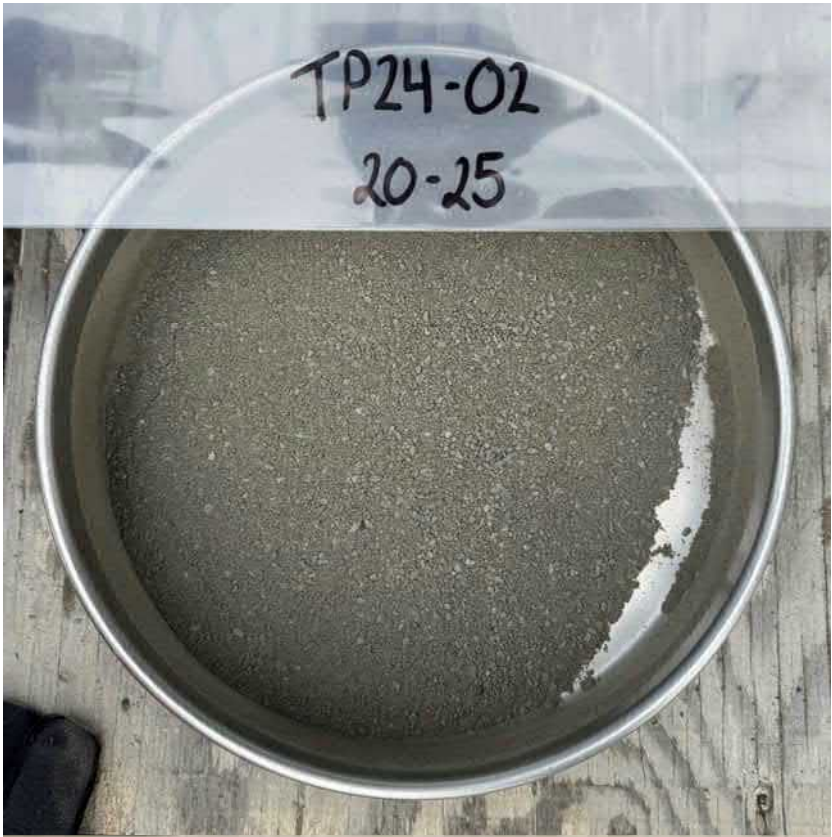


Photo 2: Sample after 2mm sieving

	Ulu ML/ARD Monitoring	Test Pits (May 2024) Photo Log	
		Test Pit TP24-02	
AppA_Ulu Test_Pit_Photo_Log_CAPR003217_Rev00.pptx		Date: March 2025	Appendix A

Location	Portal area (Above Portal East side)
Samples Collected	Depth (m)
TP24-03	0.30

Interval/sample	From (m)	To (m)	Description
	0	0.25	Grey rock
3A	0.25	0.30	Grey rock



Photo 1: TP24-03



Photo 2: Sample after 2mm sieving

	Ulu ML/ARD Monitoring		Test Pits (May 2024) Photo Log	
			Test Pit TP24-03	
	AppA_Ulu Test_Pit_Photo_Log_CAPR003217_Rev00.pptx		Date: March 2025	Appendix A

Location	Portal area (Above Portal East side)
Samples Collected	Depth (m)
TP24-04	0.35

Interval/sample	From (m)	To (m)	Description
	0	0.25	Grey rock
4A	0.20	0.26	Brown/Grey rock
4B	0.30	0.35	Brown/Grey rock



Photo 1: TP24-04



Photo 2: Sample after 2mm sieving

	Ulu ML/ARD Monitoring		Test Pits (May 2024) Photo Log	
			Test Pit TP24-04	
	AppA_Ulu Test_Pit_Photo_Log_CAPR003217_Rev00.pptx		Date: March 2025	Appendix A

Location	Portal area (East of Portal Pond)
Samples Collected	Depth (m)
TP24-06	0.45



Photo 1: TP24-06

Interval/sample	From (m)	To (m)	Description
	0	0.30	Grey rock
6A	0.30	0.35	Grey rock
6B	0.40	0.45	Grey rock



Photo 2: Sample after 2mm sieving

Location	Portal area (East of Portal Pond)
Samples Collected	Depth (m)
TP24-07	0.45



Photo 1: TP24-07

Interval/sample	From (m)	To (m)	Description
	0	0.30	Grey rock
7A	0.30	0.35	Brown/Grey rock
7B	0.40	0.45	Brown rock



Photo 2: Sample after 2mm sieving

	Ulu ML/ARD Monitoring	Test Pits (June 2024) Photo Log	
		Test Pit TP24-07	
AppA_Ulu Test_Pit_Photo_Log_CAPR003217_Rev00.pptx		Date: March 2025	Appendix A

Location	Portal area (East of Portal Pond)
Samples Collected	Depth (m)
TP24-08	0.45



Photo 1: TP24-08

Interval/sample	From (m)	To (m)	Description
	0	0.30	Grey rock
8A	0.30	0.35	Grey rock
8B	0.40	0.45	Grey rock



Photo 2: Sample after 2mm sieving

 AppA_Ulu Test_Pit_Photo_Log_CAPR003217_Rev00.pptx	Ulu ML/ARD Monitoring	Test Pits (June 2024) Photo Log	
		Test Pit TP24-08	
		Date: March 2025	Appendix A

Location	Ore Pad (North)
Samples Collected	Depth (m)
TP24-09	0.45

Interval/sample	From (m)	To (m)	Description
9A	0	0.10	Brown tundra soil
9B	0.40	0.45	Orange tundra soil



Photo 1: TP24-09

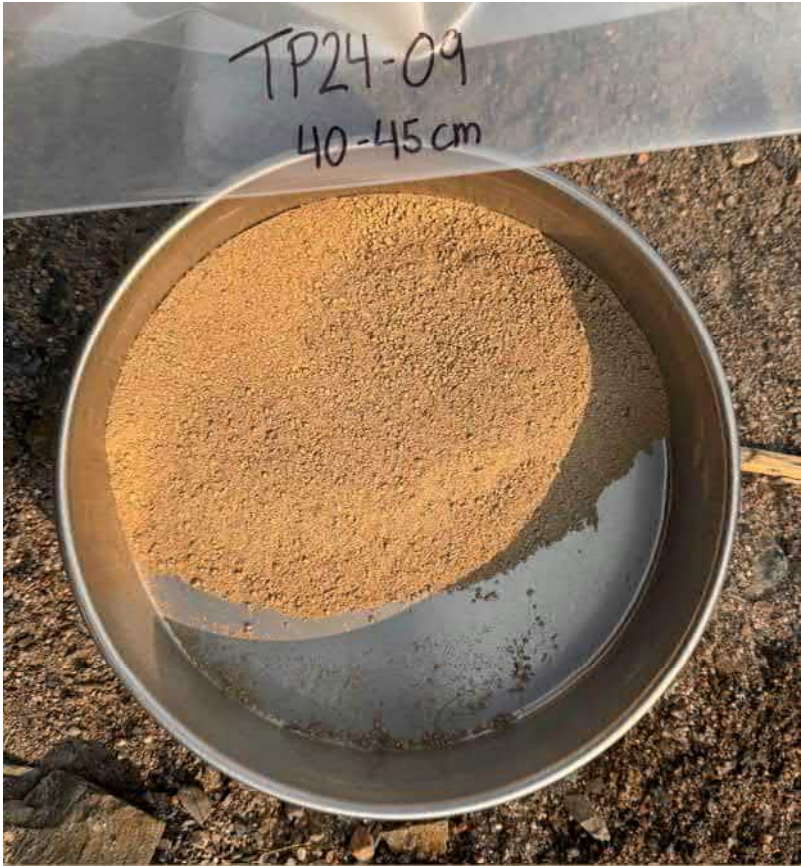


Photo 2: Sample after 2mm sieving

	Ulu ML/ARD Monitoring		Test Pits (August 2024) Photo Log	
			Test Pit TP24-09	
	AppA_Ulu Test_Pit_Photo_Log_CAPR003217_Rev00.pptx		Date: March 2025	Appendix A

Location	Ore Pad (North)
Samples Collected	Depth (m)
TP24-10	0.30

Interval/sample	From (m)	To (m)	Description
10A	0	0.10	Orange rock
10B	0.25	0.30	Brown tundra soil



Photo 1: TP24-10

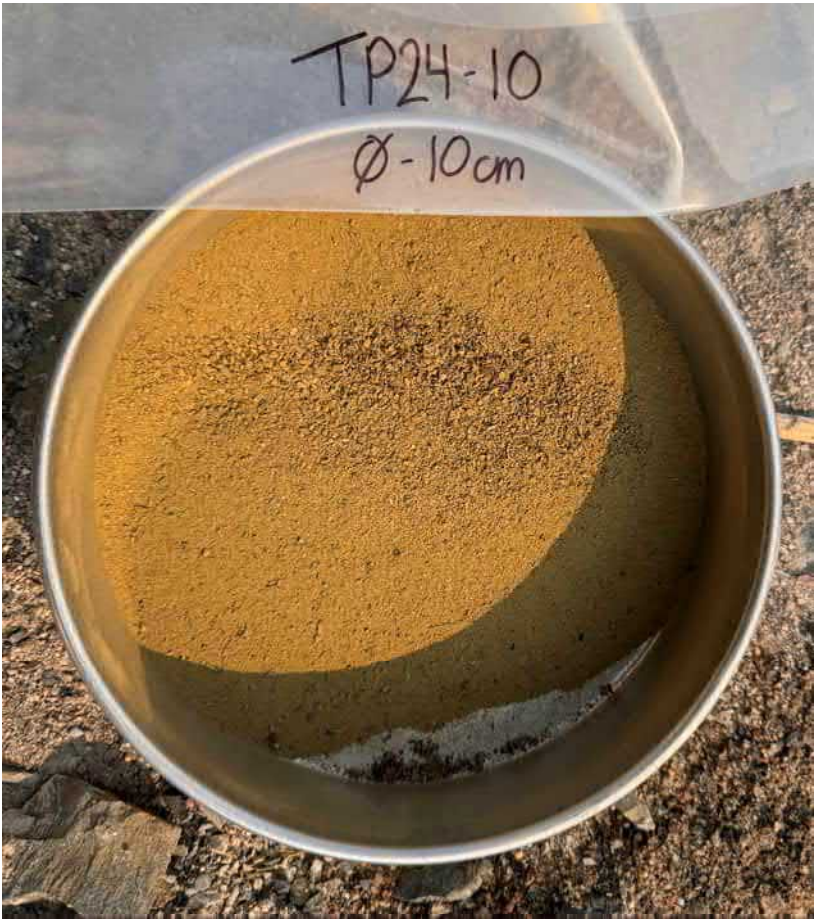


Photo 2: Sample after 2mm sieving

 AppA_Ulu Test_Pit_Photo_Log_CAPR003217_Rev00.pptx	Ulu ML/ARD Monitoring	Test Pits (August 2024) Photo Log
		Test Pit TP24-10
	Date: March 2025	Appendix A

Location	Ore Pad (North)
Samples Collected	Depth (m)
TP24-11	0.25

Interval/sample	From (m)	To (m)	Description
11A	0.20	0.25	Grey rock



Photo 1: TP24-11

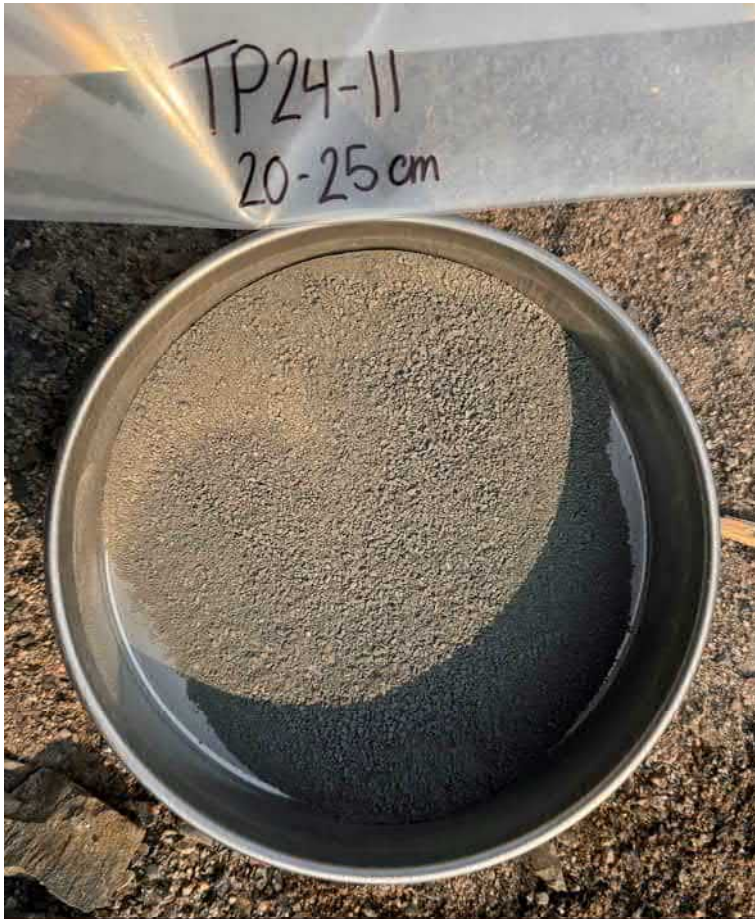


Photo 2: Sample after 2mm sieving

	Ulu ML/ARD Monitoring		Test Pits (August 2024) Photo Log	
			Test Pit TP24-11	
	AppA_Ulu Test_Pit_Photo_Log_CAPR003217_Rev00.pptx		Date: March 2025	Appendix A

Location	Ore Pad (North)
Samples Collected	Depth (m)
TP24-12	0.20

Interval/sample	From (m)	To (m)	Description
12A	0.15	0.20	Orang/Brown tundra soil



Photo 1: TP24-12

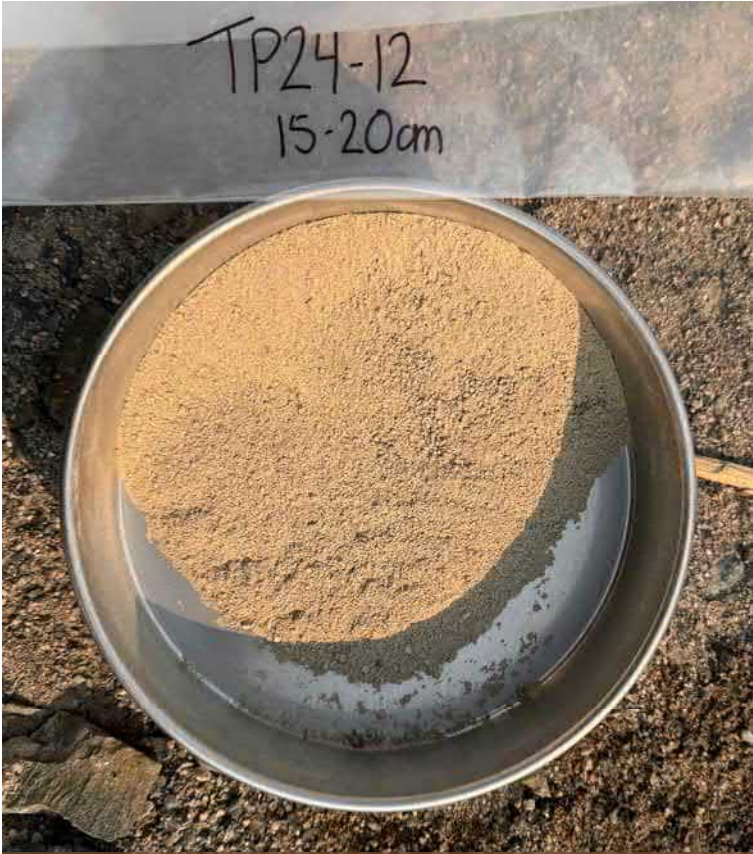


Photo 2: Sample after 2mm sieving

Location	Ore Pad (North)
Samples Collected	Depth (m)
TP24-13	0.10

Interval/sample	From (m)	To (m)	Description
13A	0	0.10	Orange rock



Photo 1: TP24-13



Photo 2: Sample after 2mm sieving

 AppA_Ulu Test_Pit_Photo_Log_CAPR003217_Rev00.pptx	Ulu ML/ARD Monitoring	Test Pits (August 2024) Photo Log	
		Test Pit TP24-13	
		Date: March 2025	Appendix A

Location	Ore Pad (North)
Samples Collected	Depth (m)
TP24-14	0.05

Interval/sample	From (m)	To (m)	Description
14A	0	0.05	Orange/brown rock/tundra soil



Photo 1: Sample before 2mm sieving

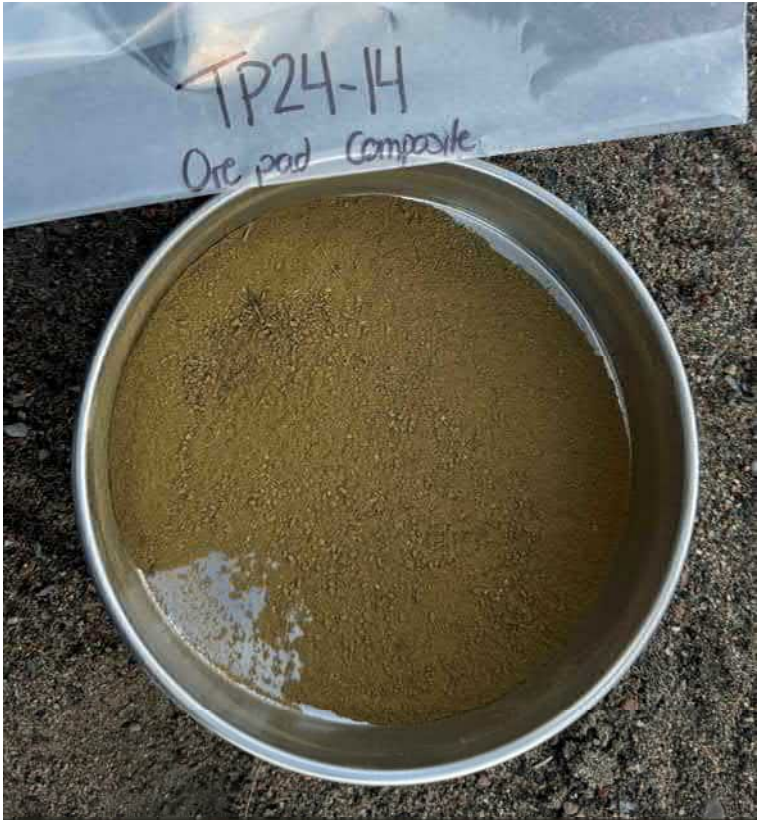
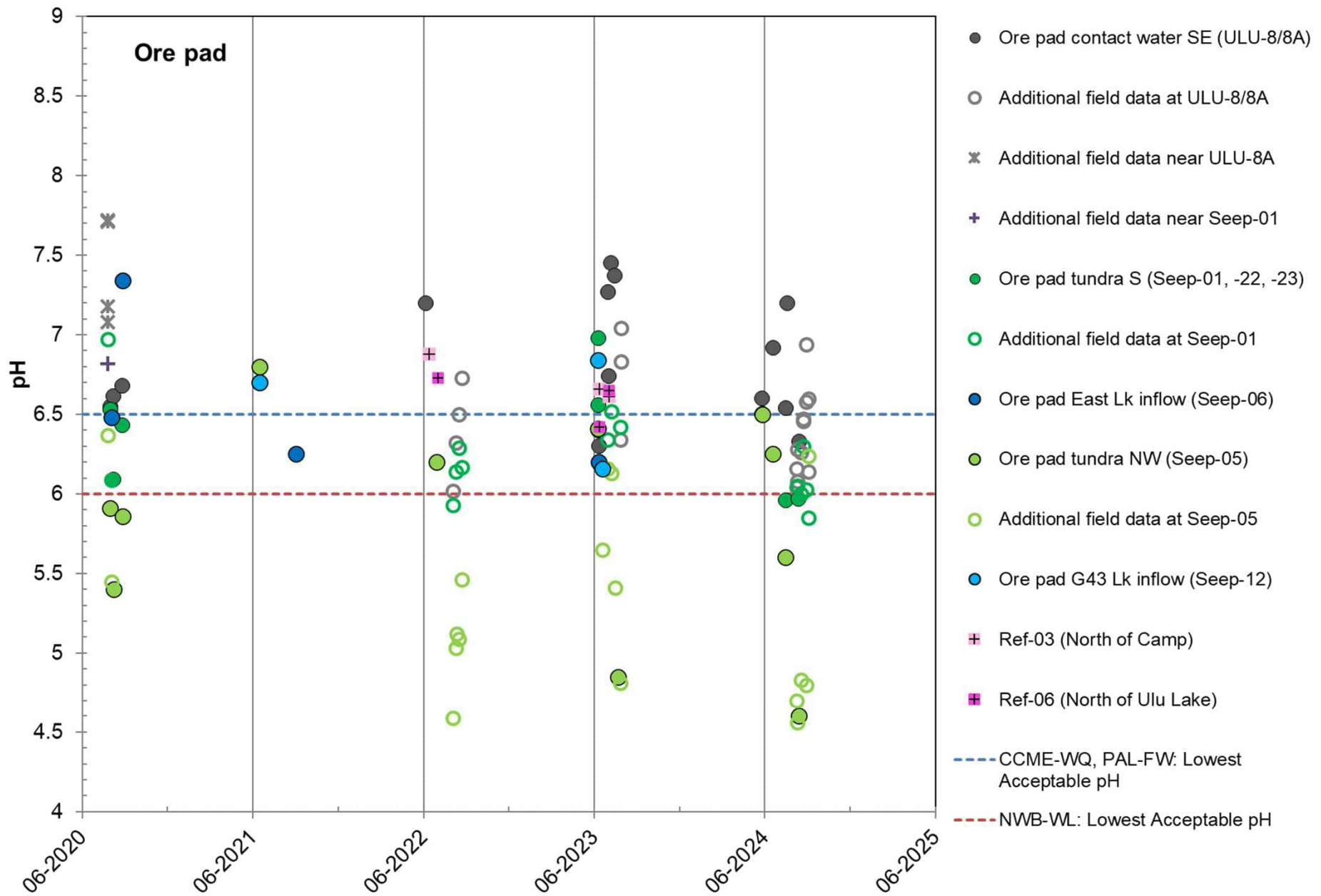


Photo 2: Sample after 2mm sieving

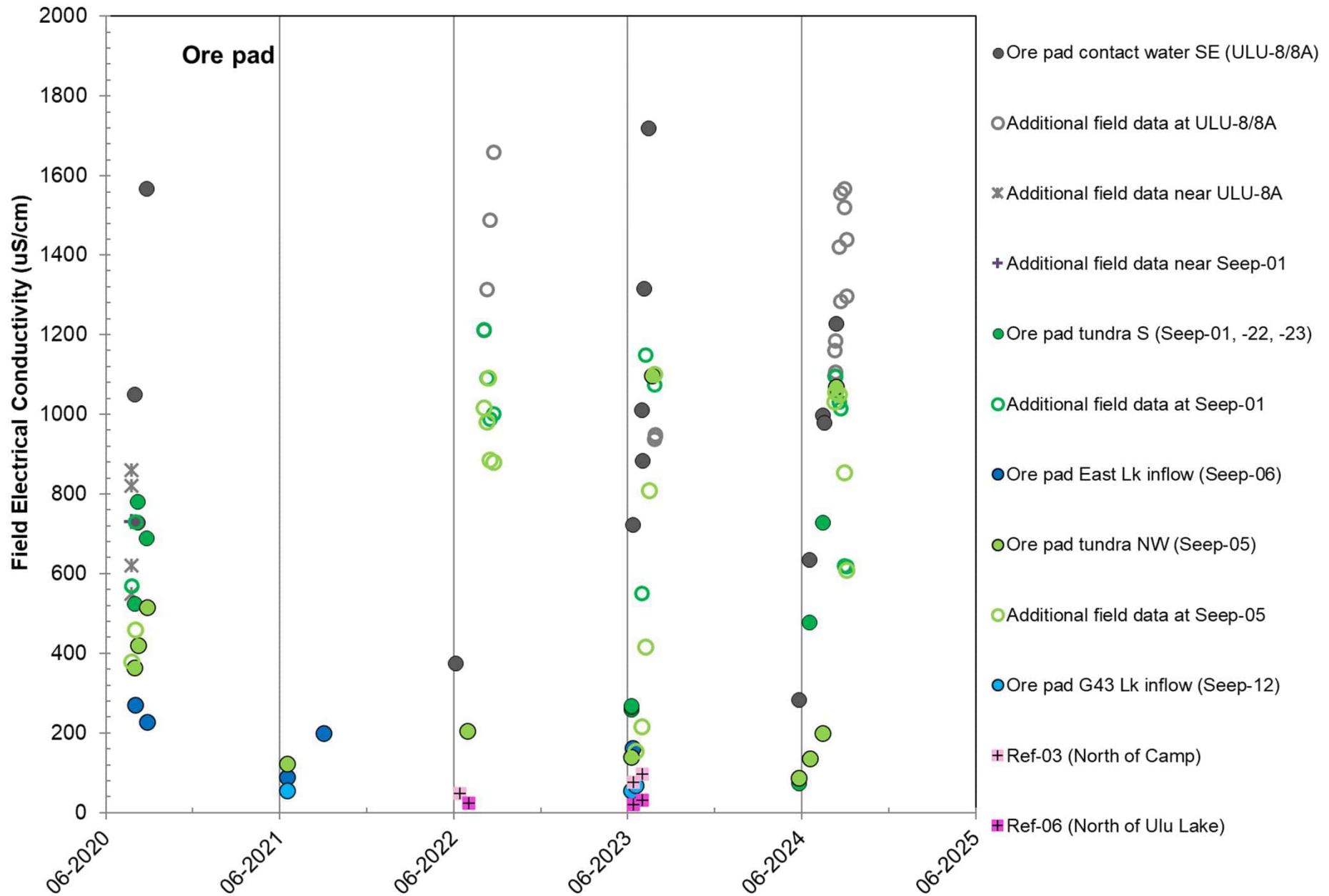
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		Test Pit TP24-14	
		Date: March 2025	Appendix A

Appendix C Seepage Charts

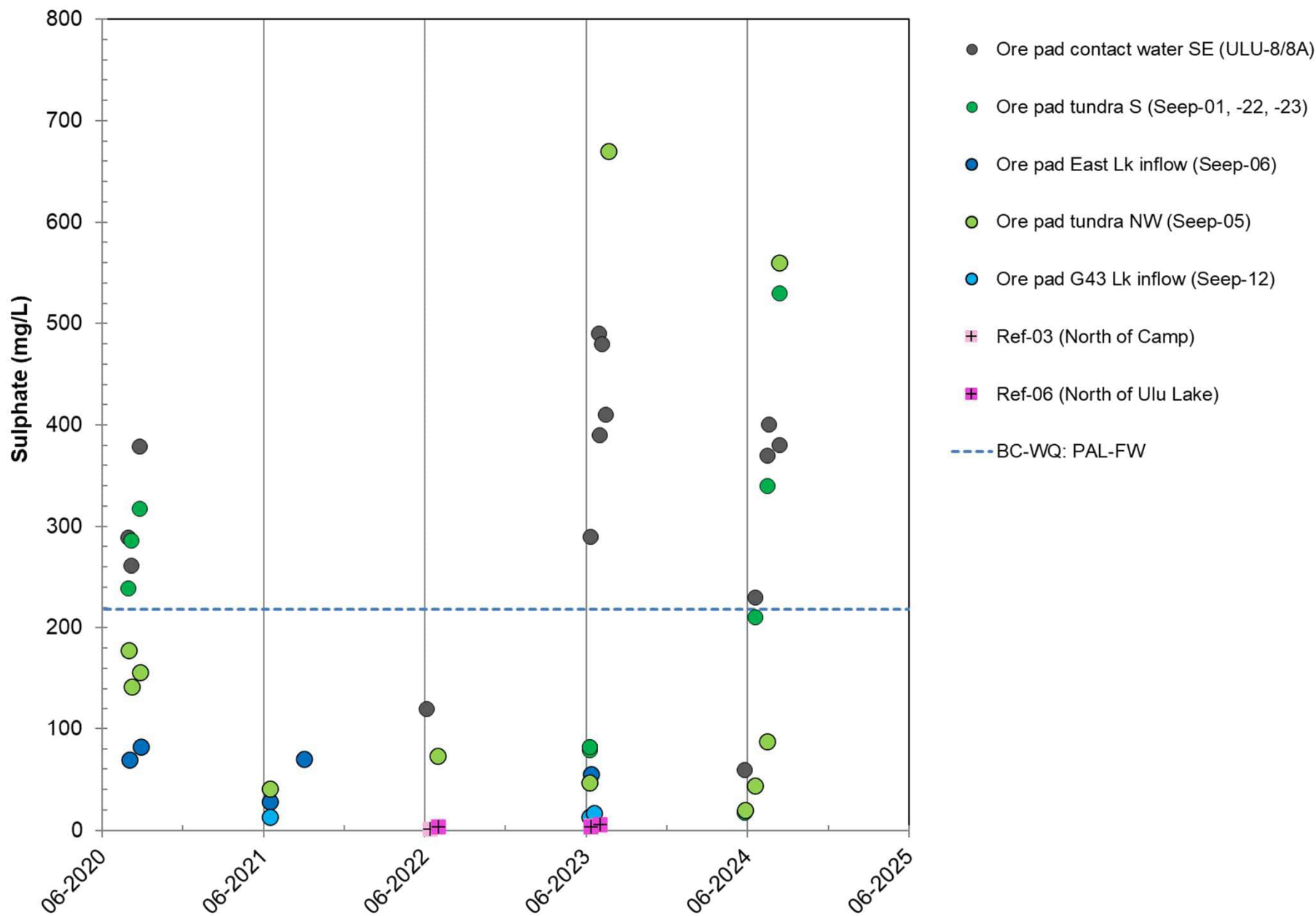
Ore Pad Seepage Charts



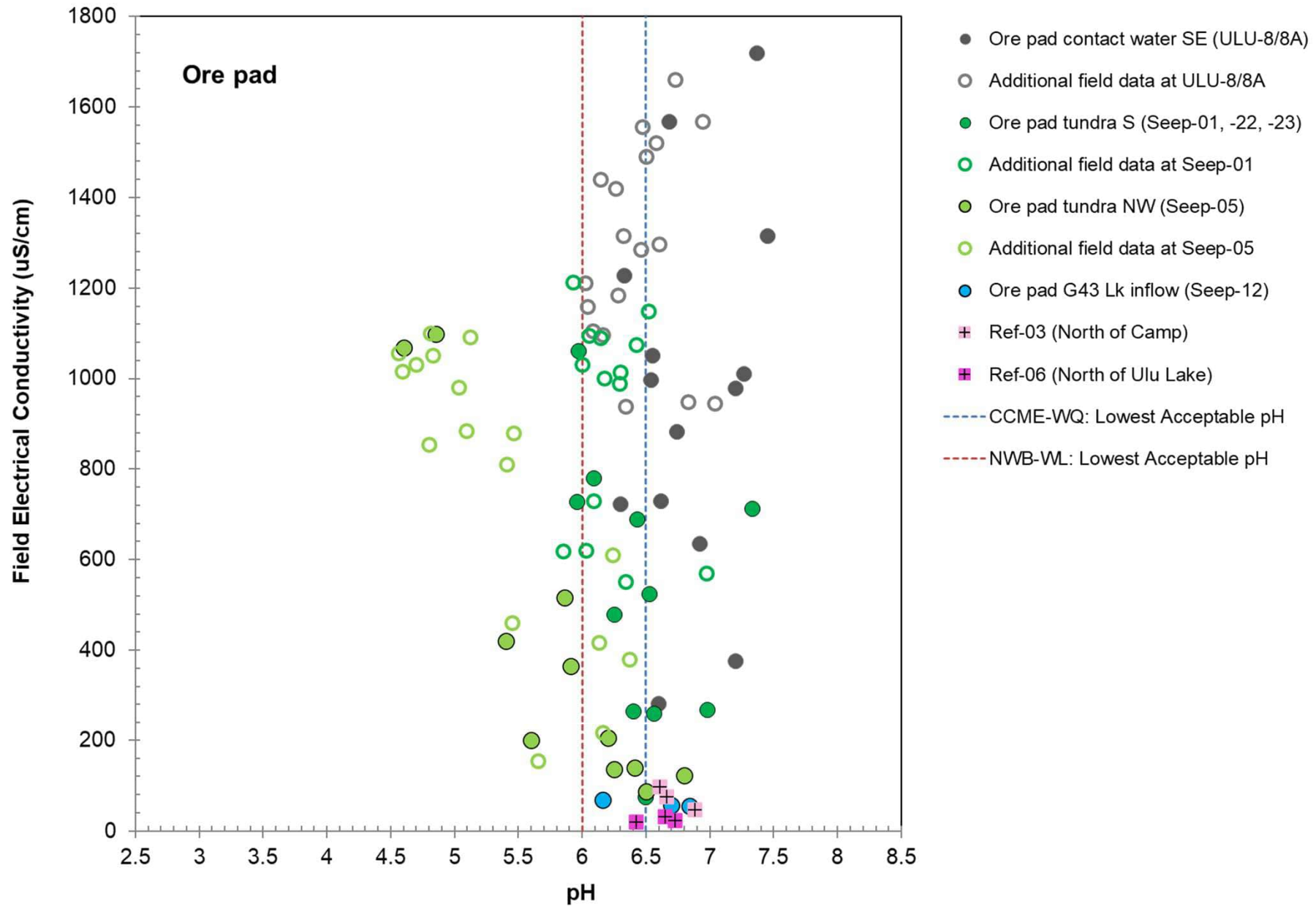
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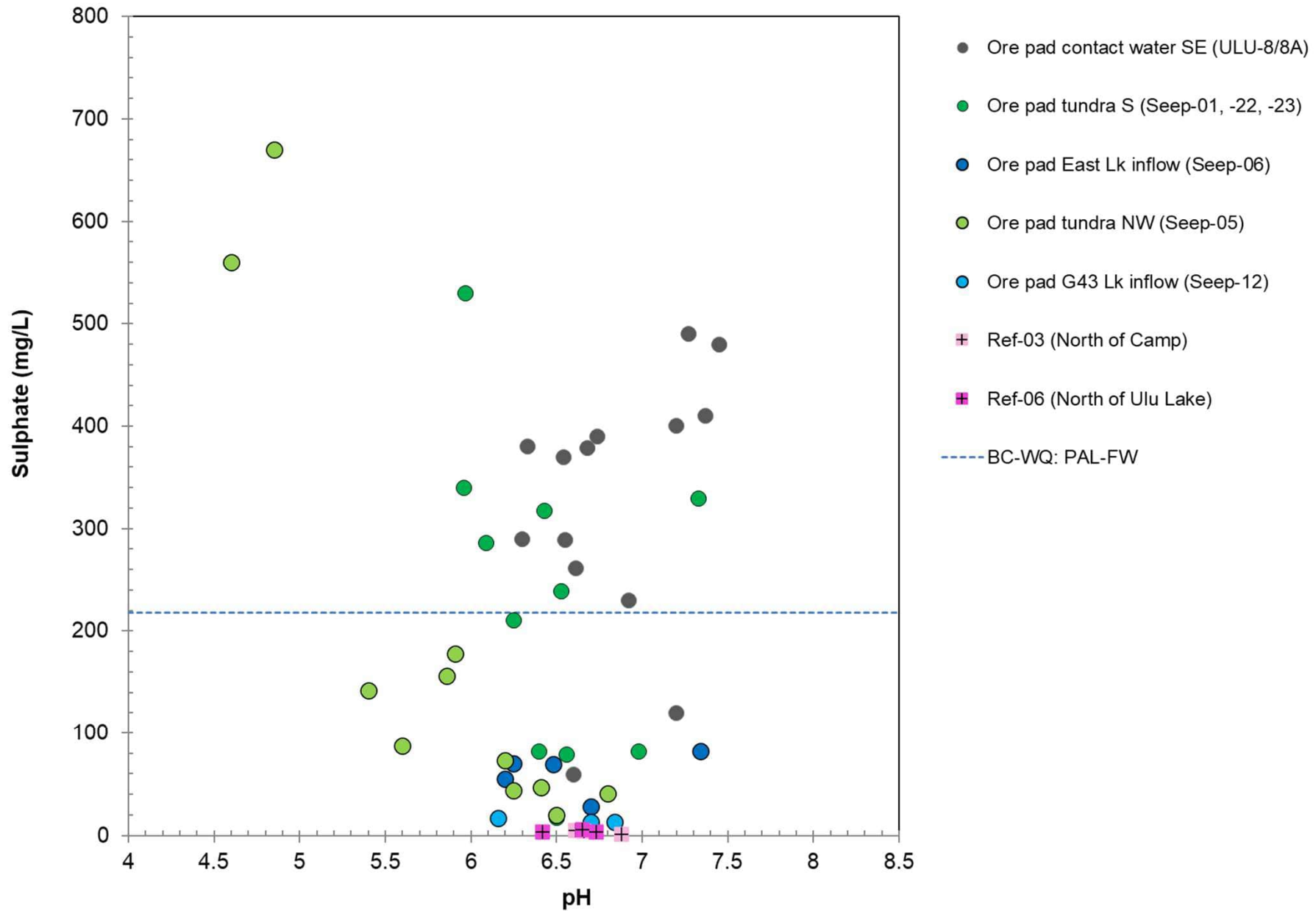
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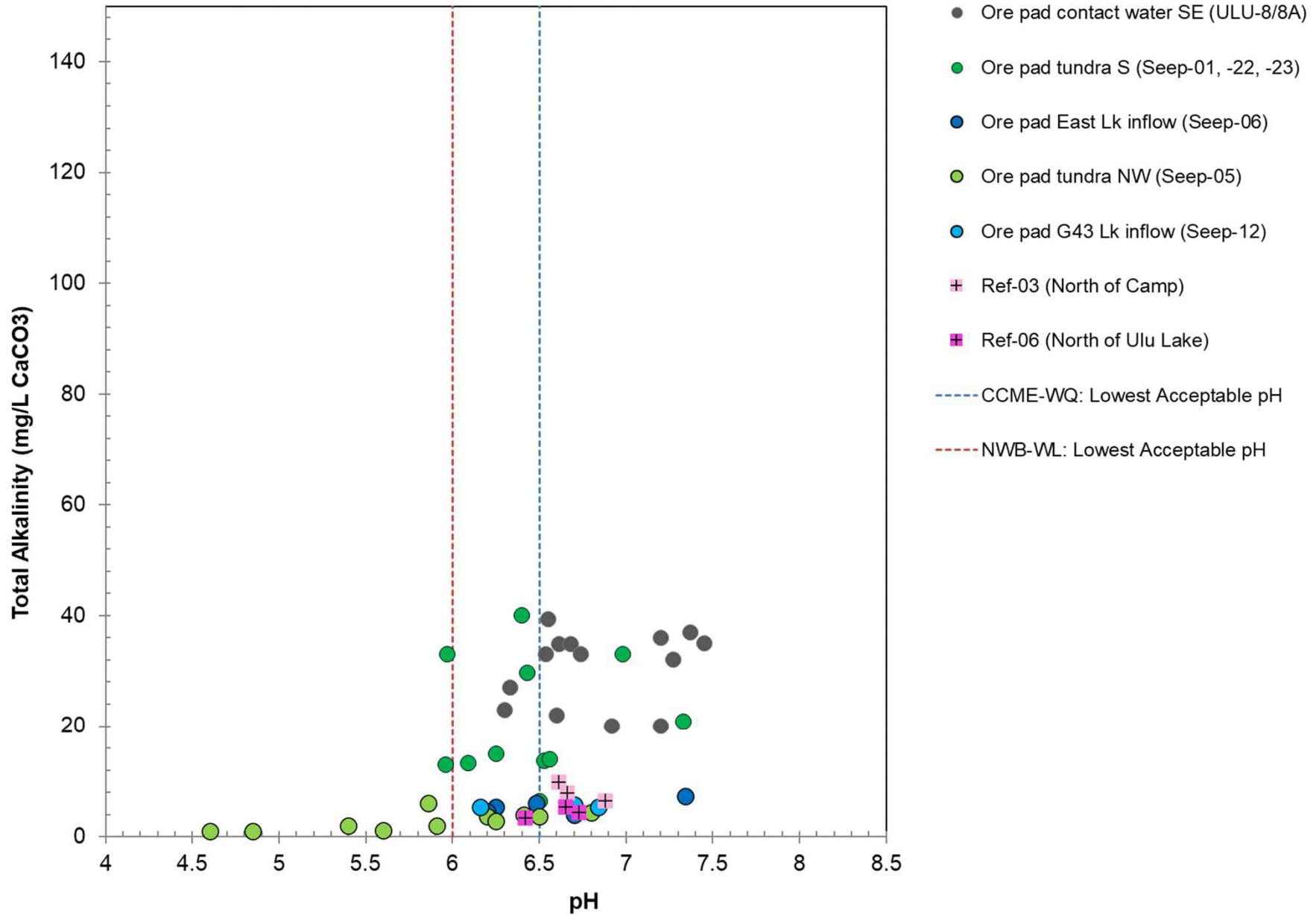
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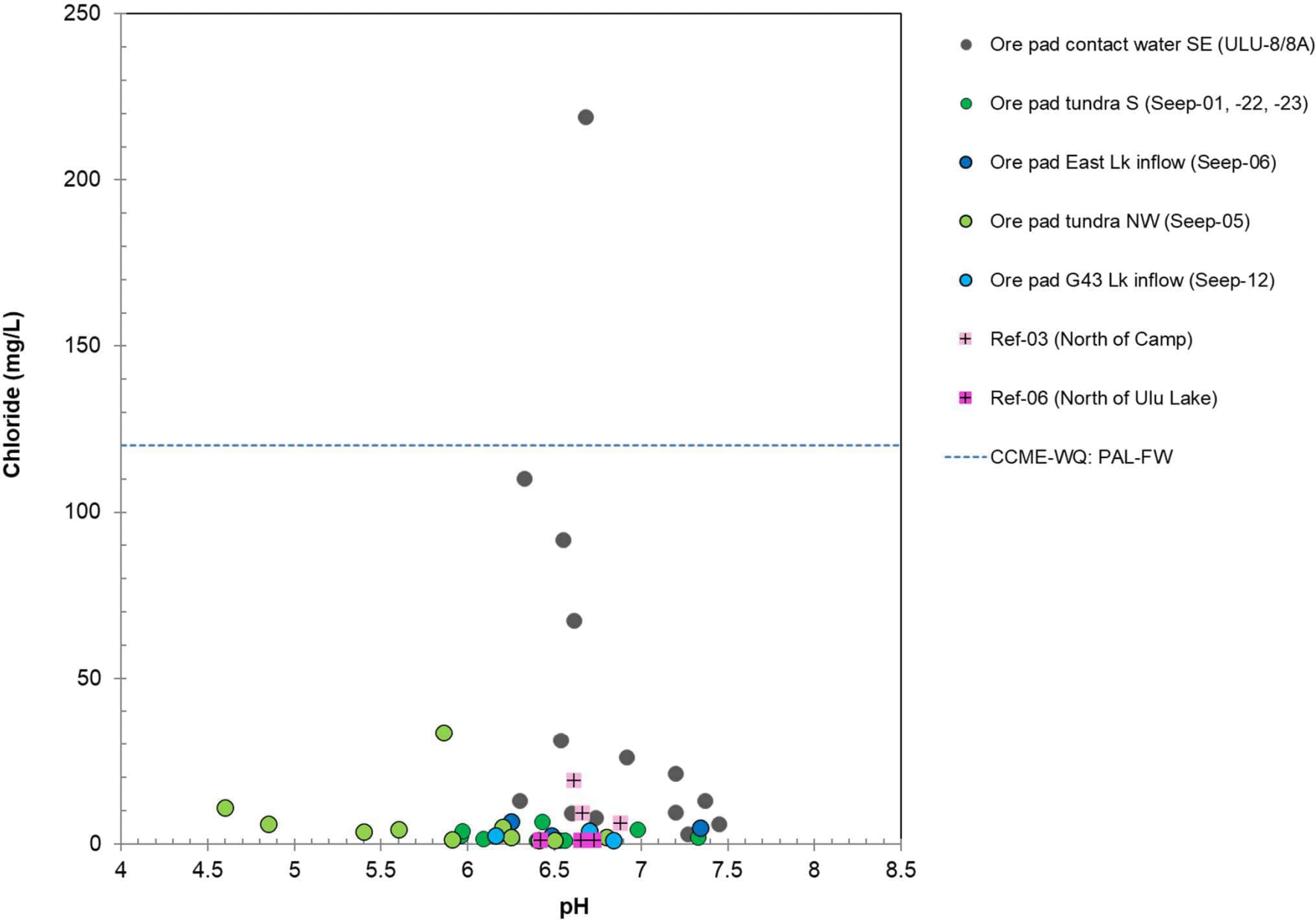
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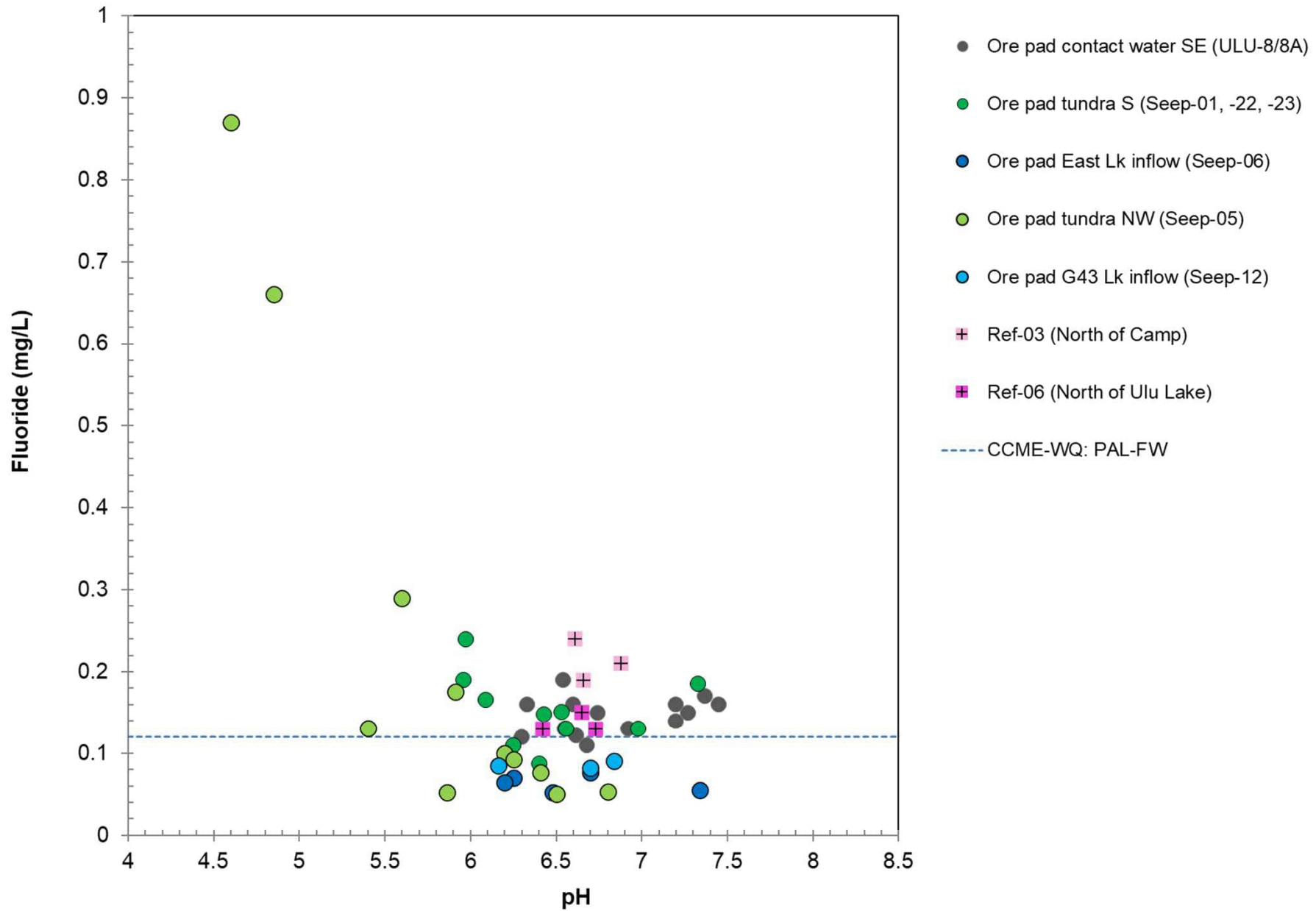
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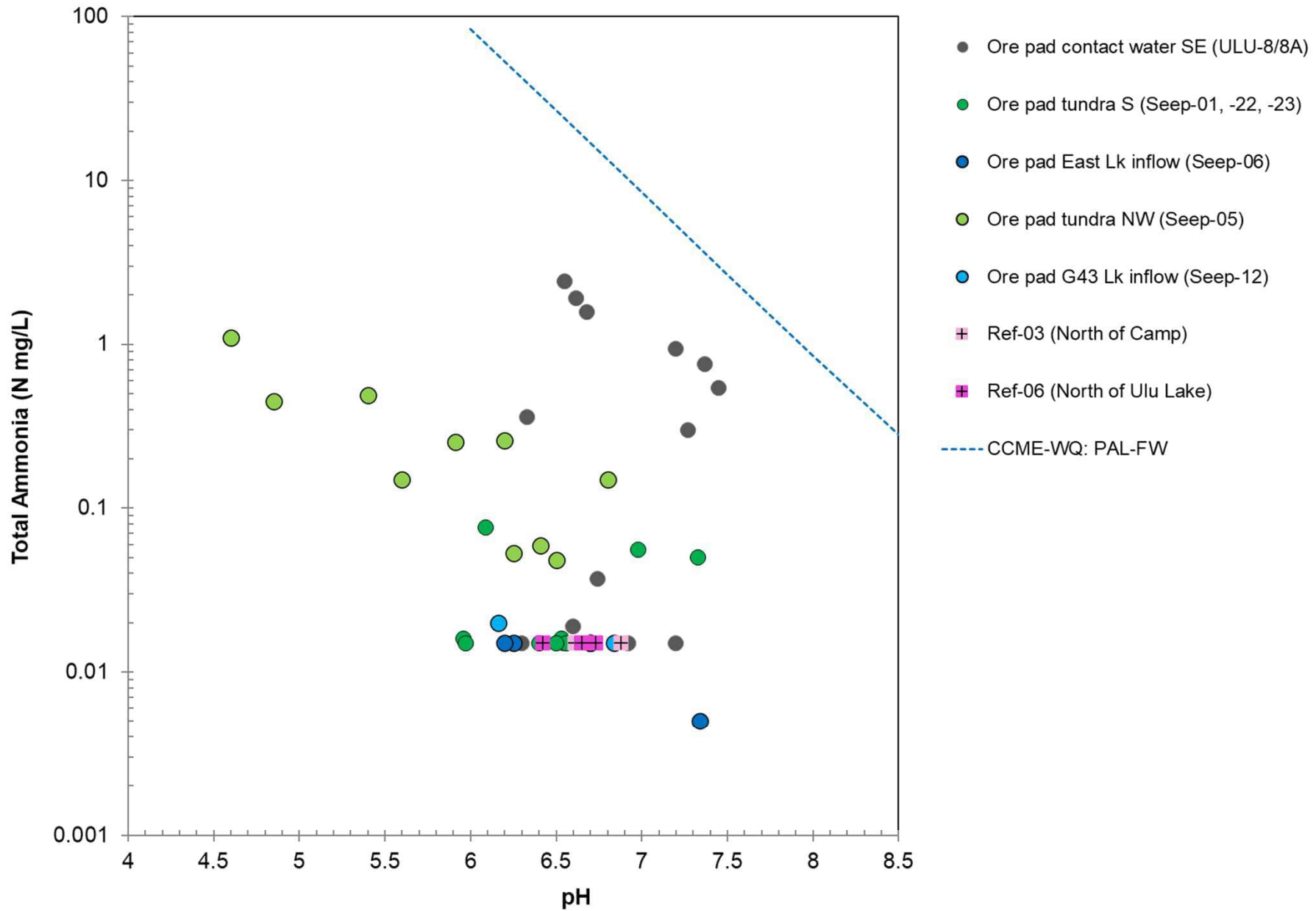
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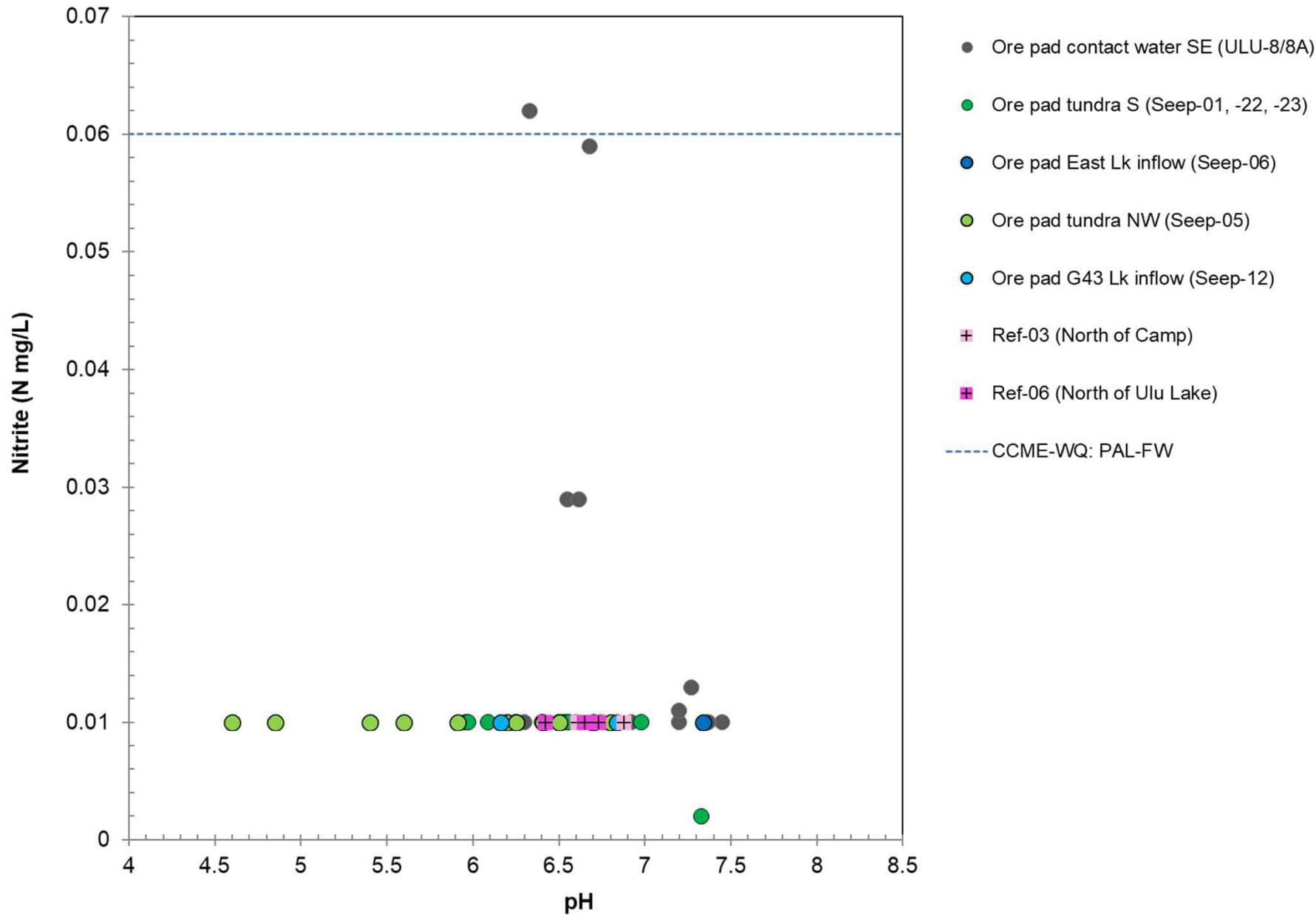
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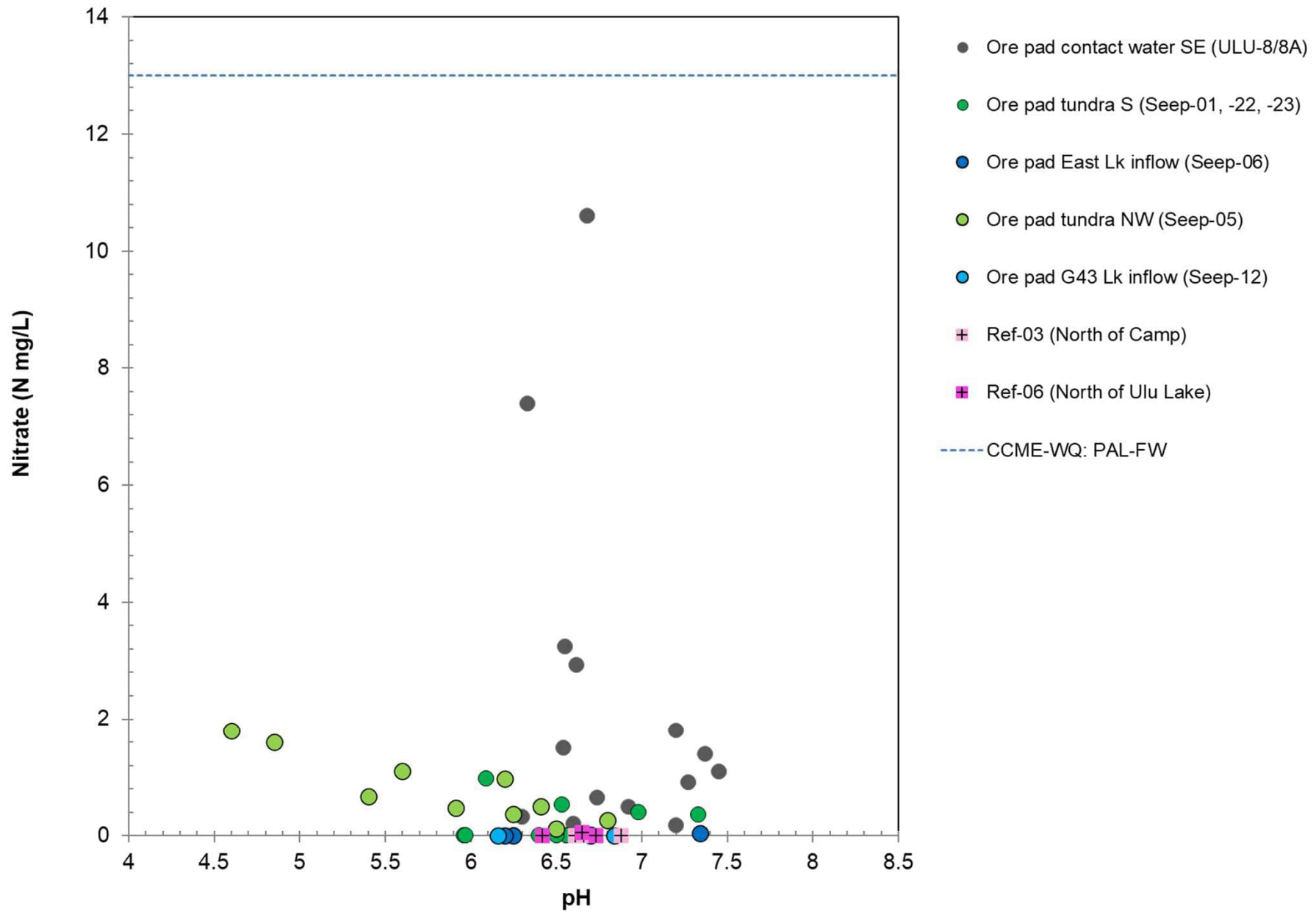
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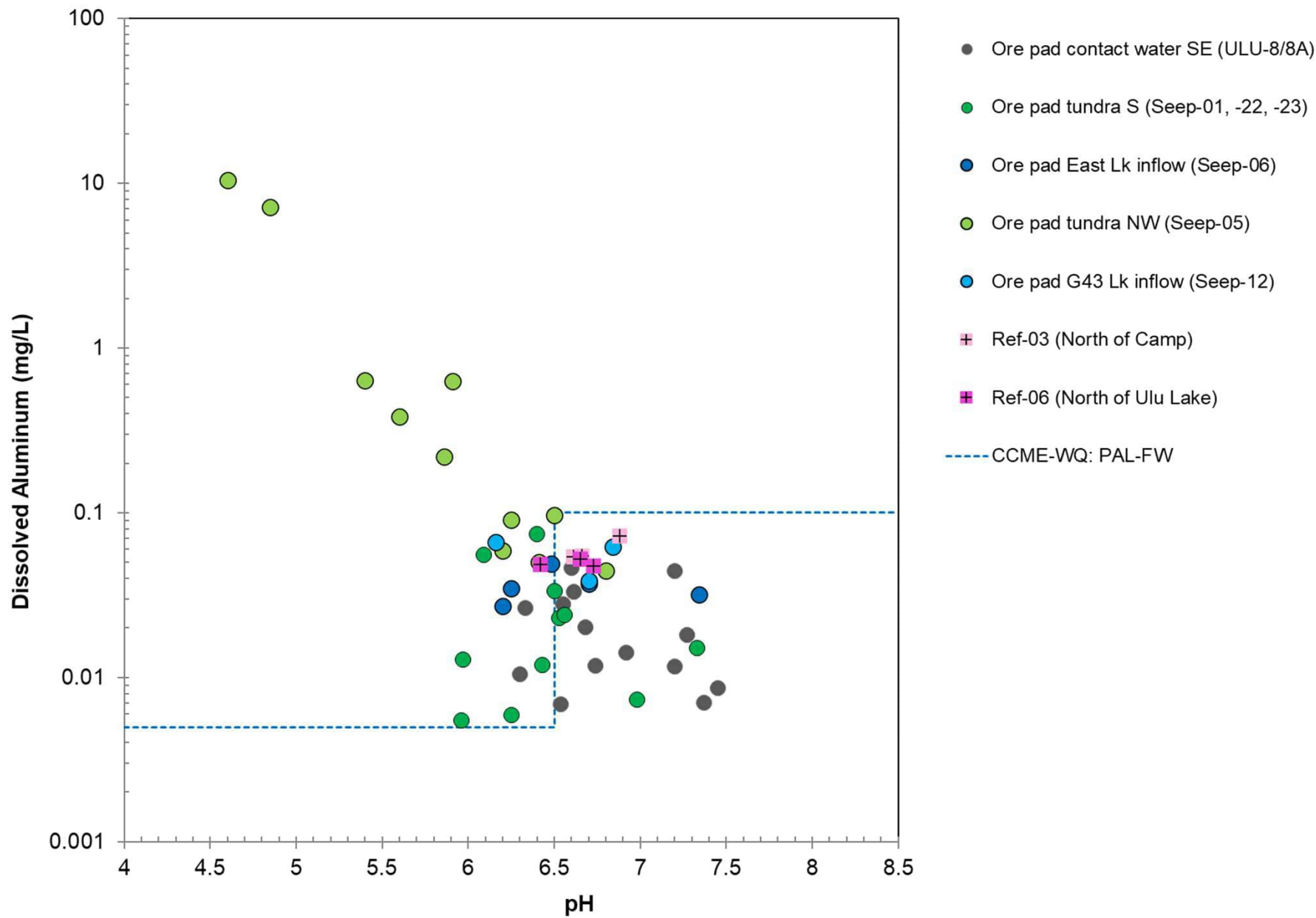
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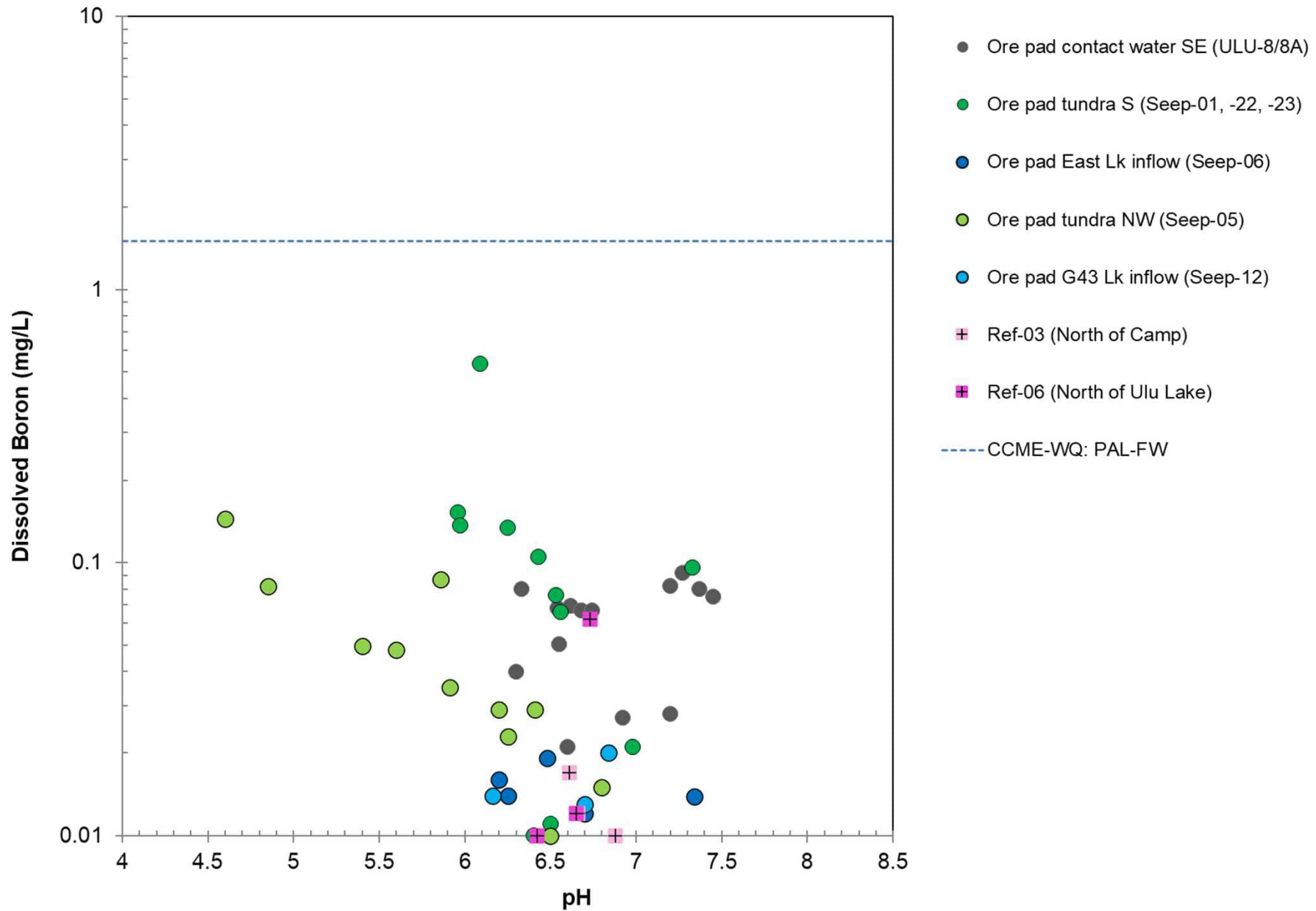


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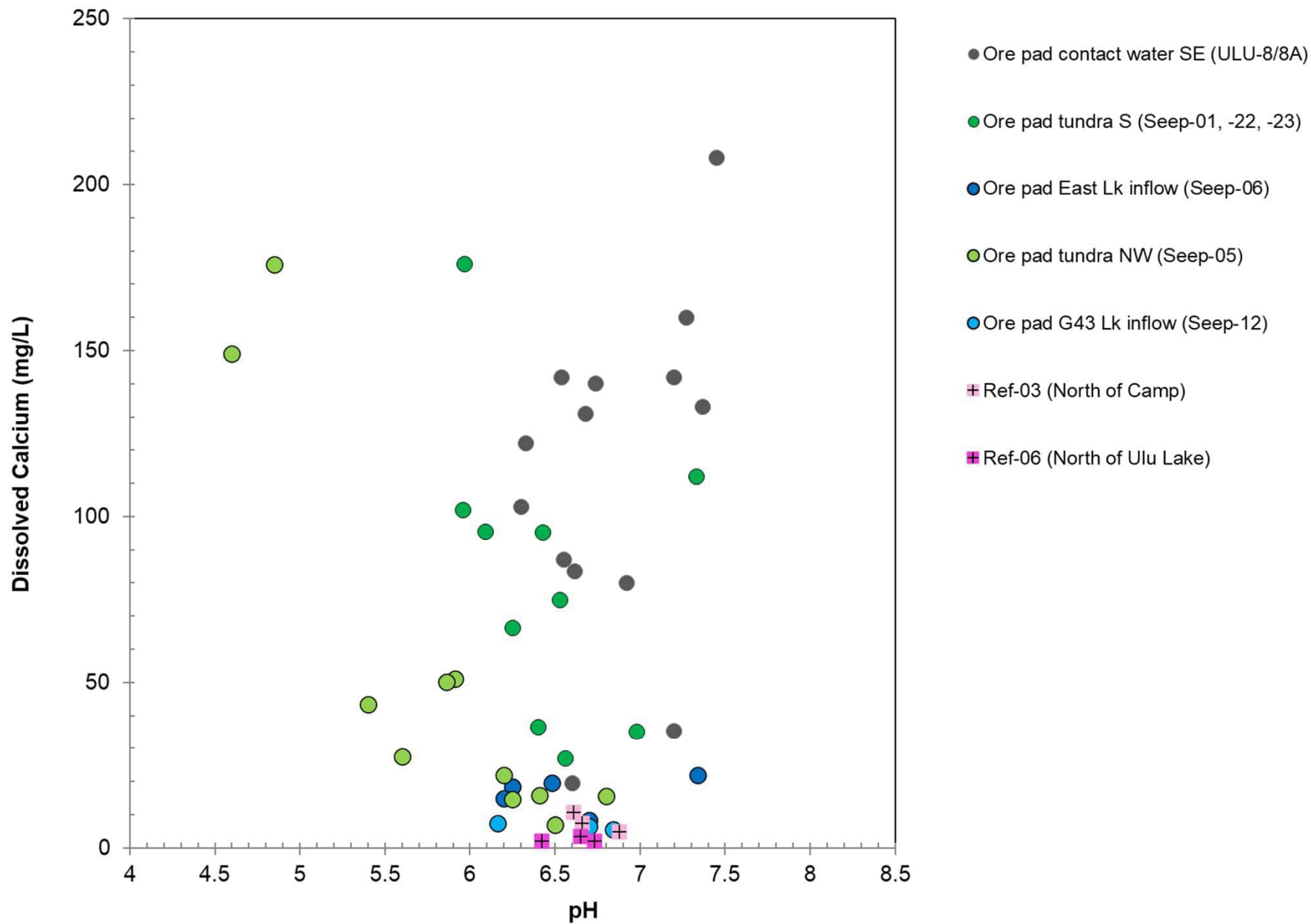


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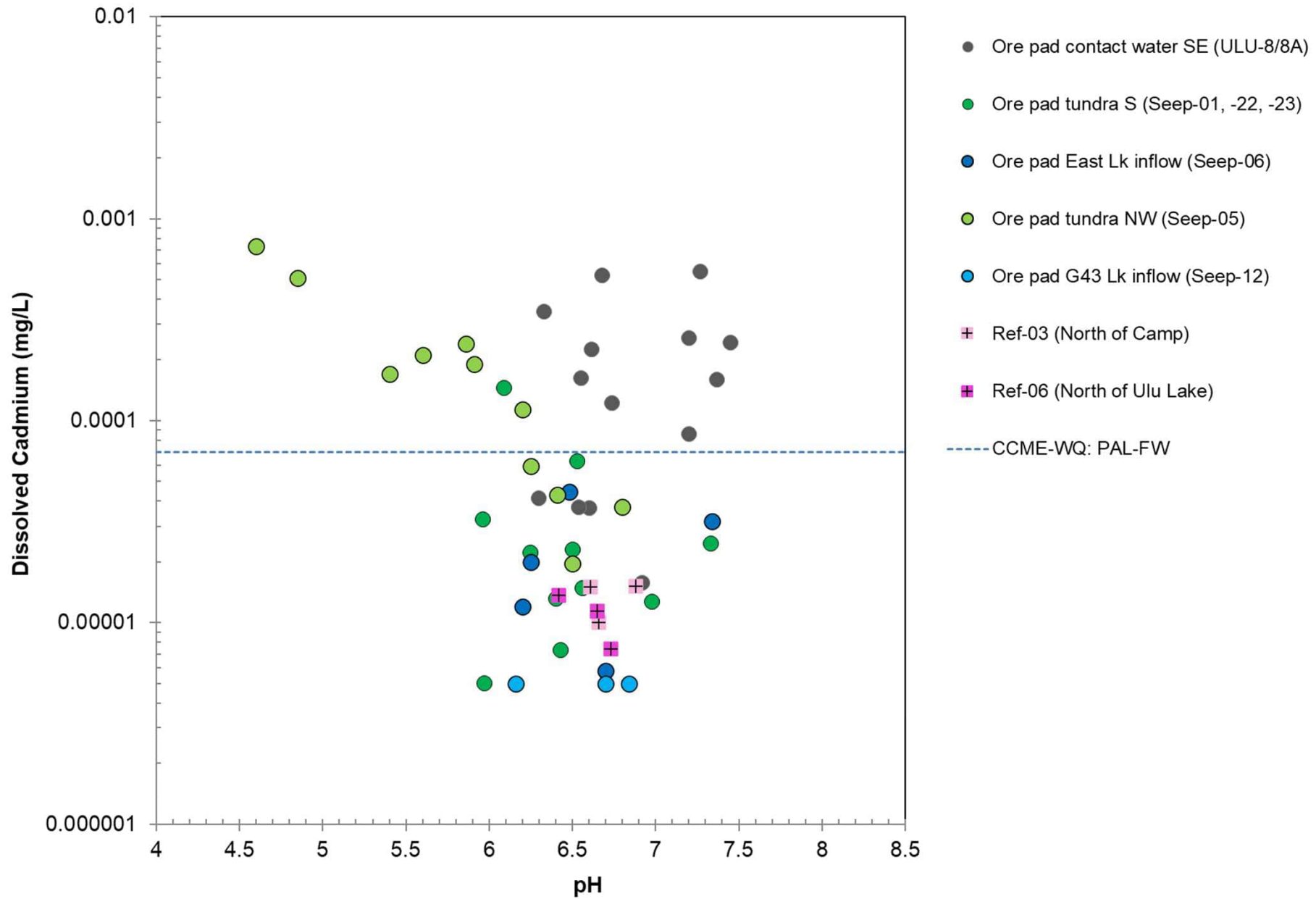




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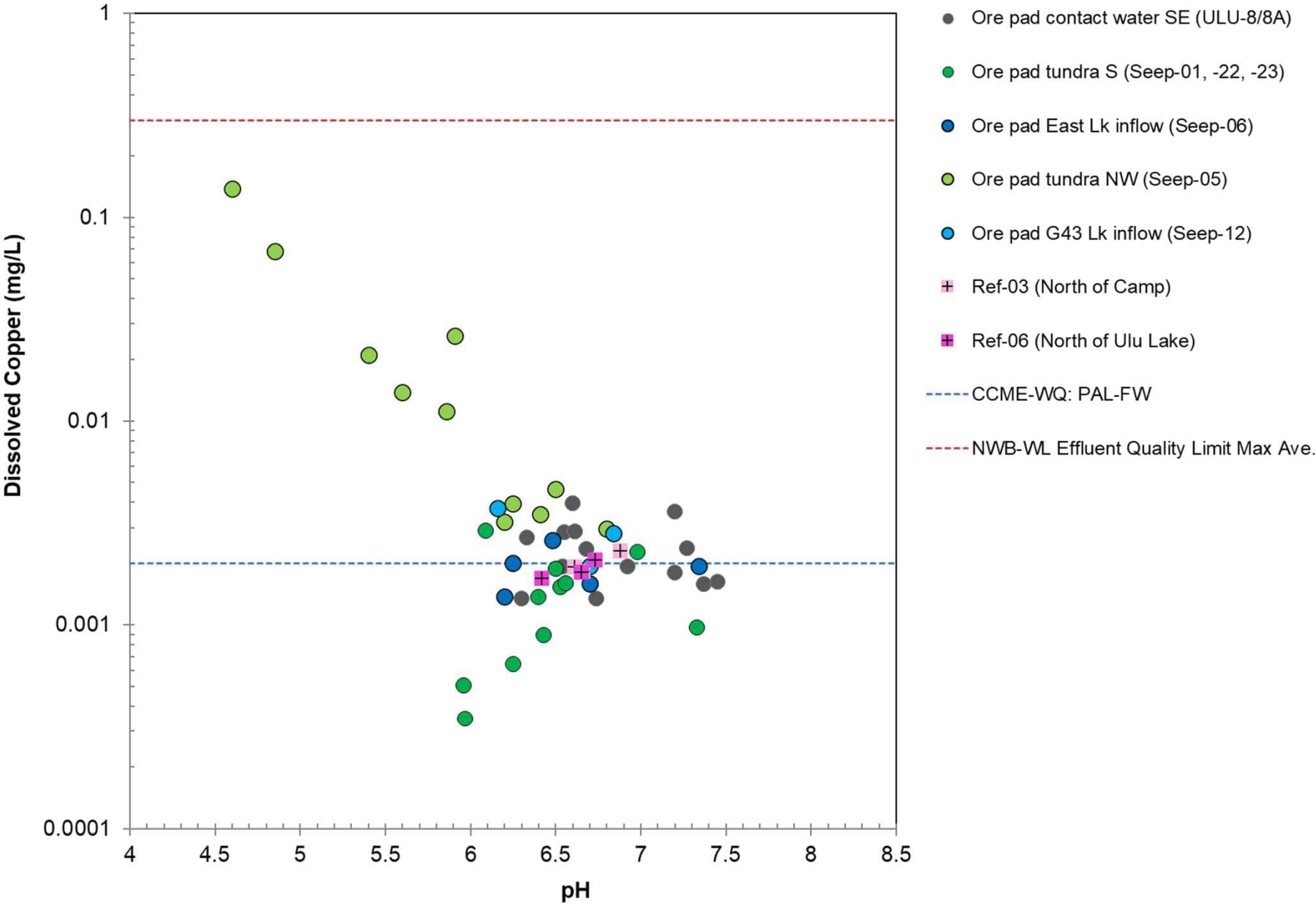


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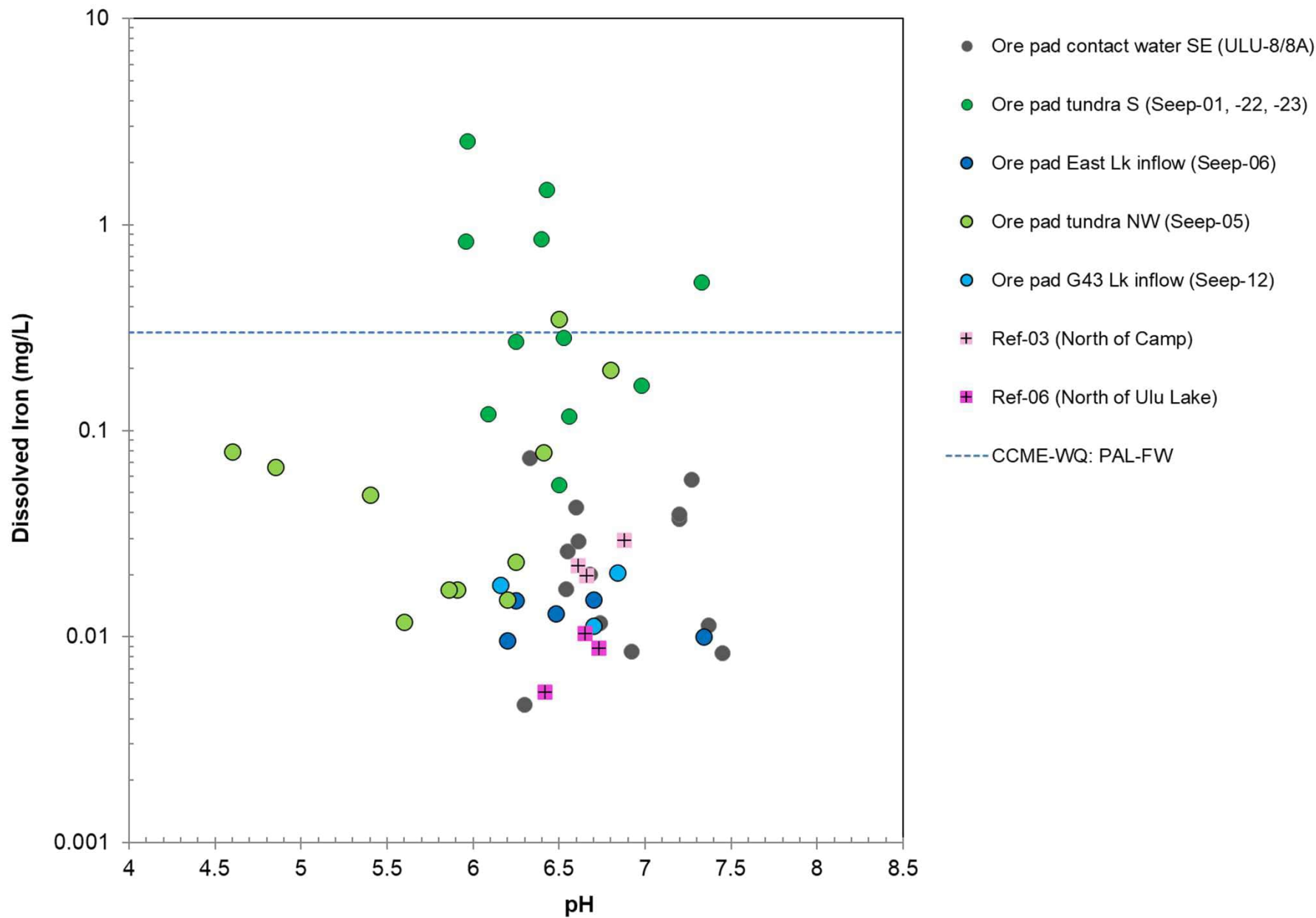


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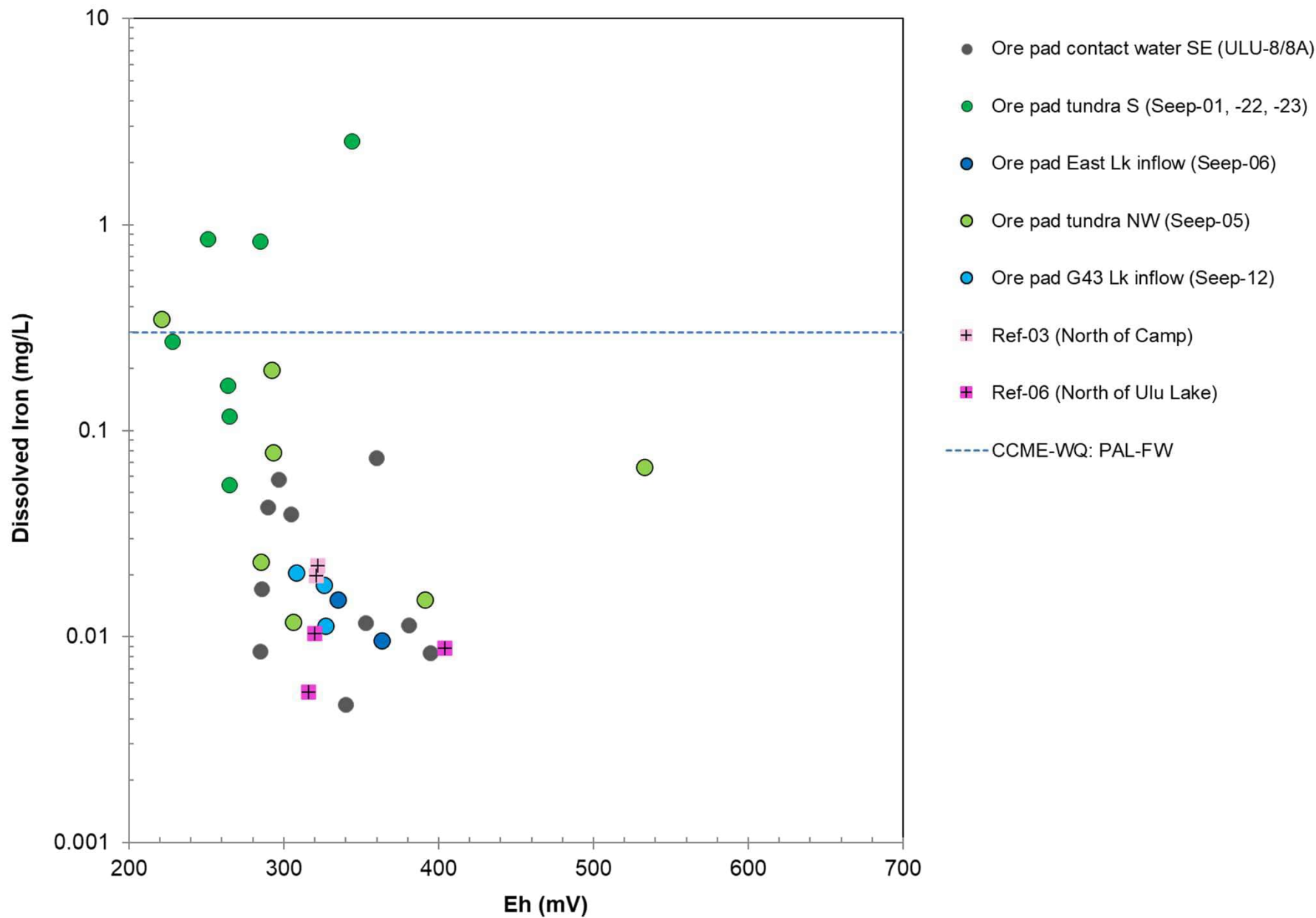




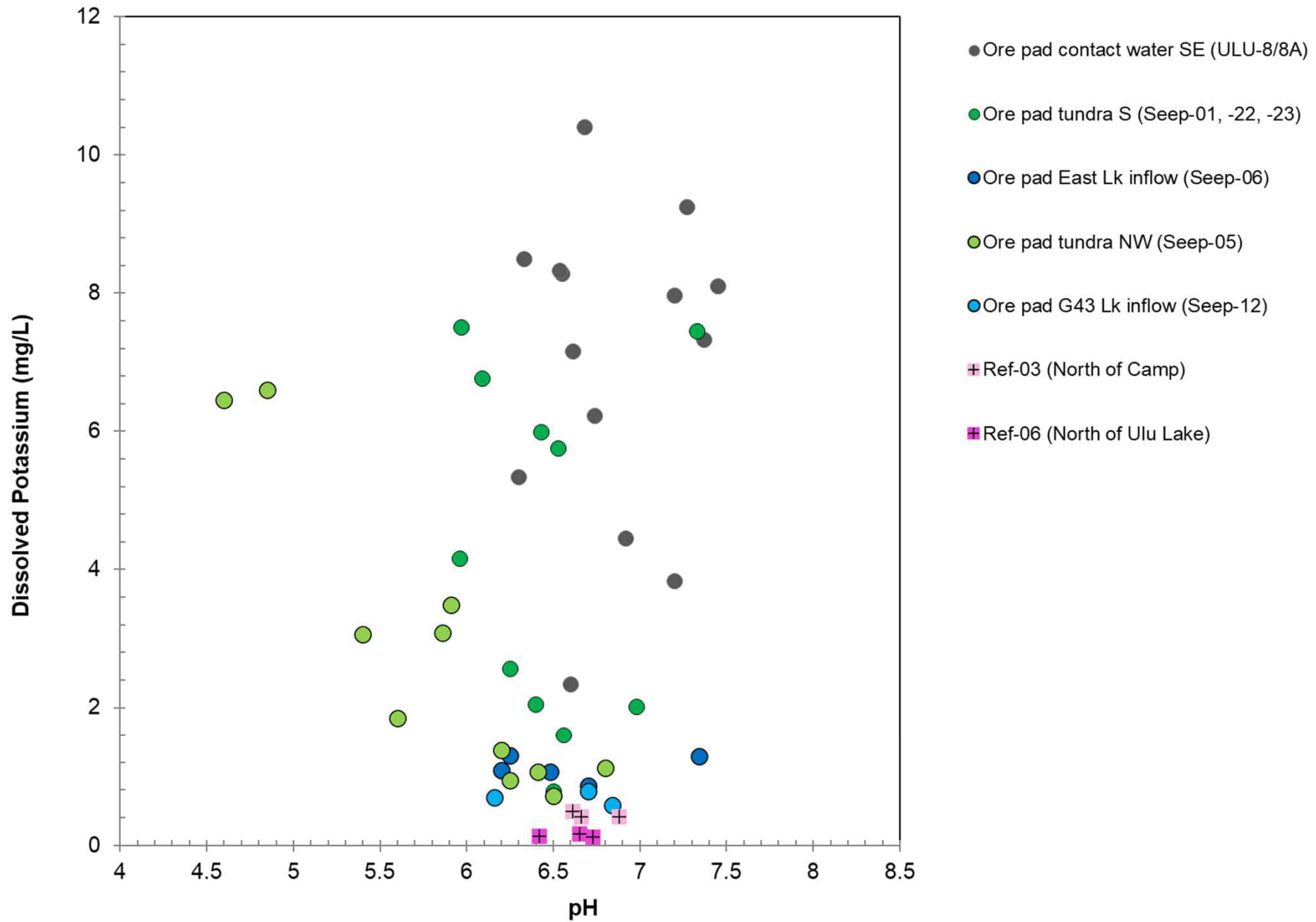
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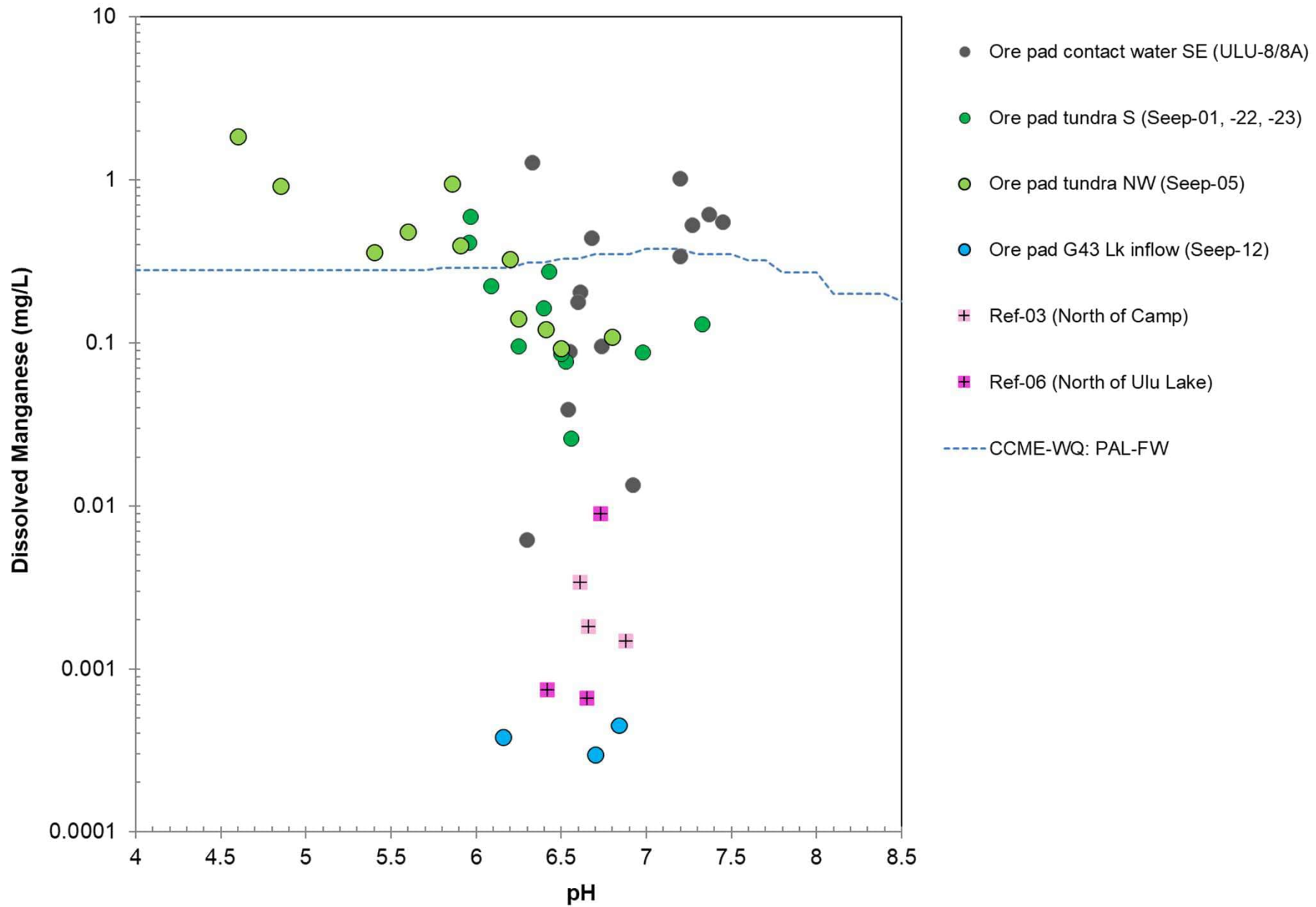


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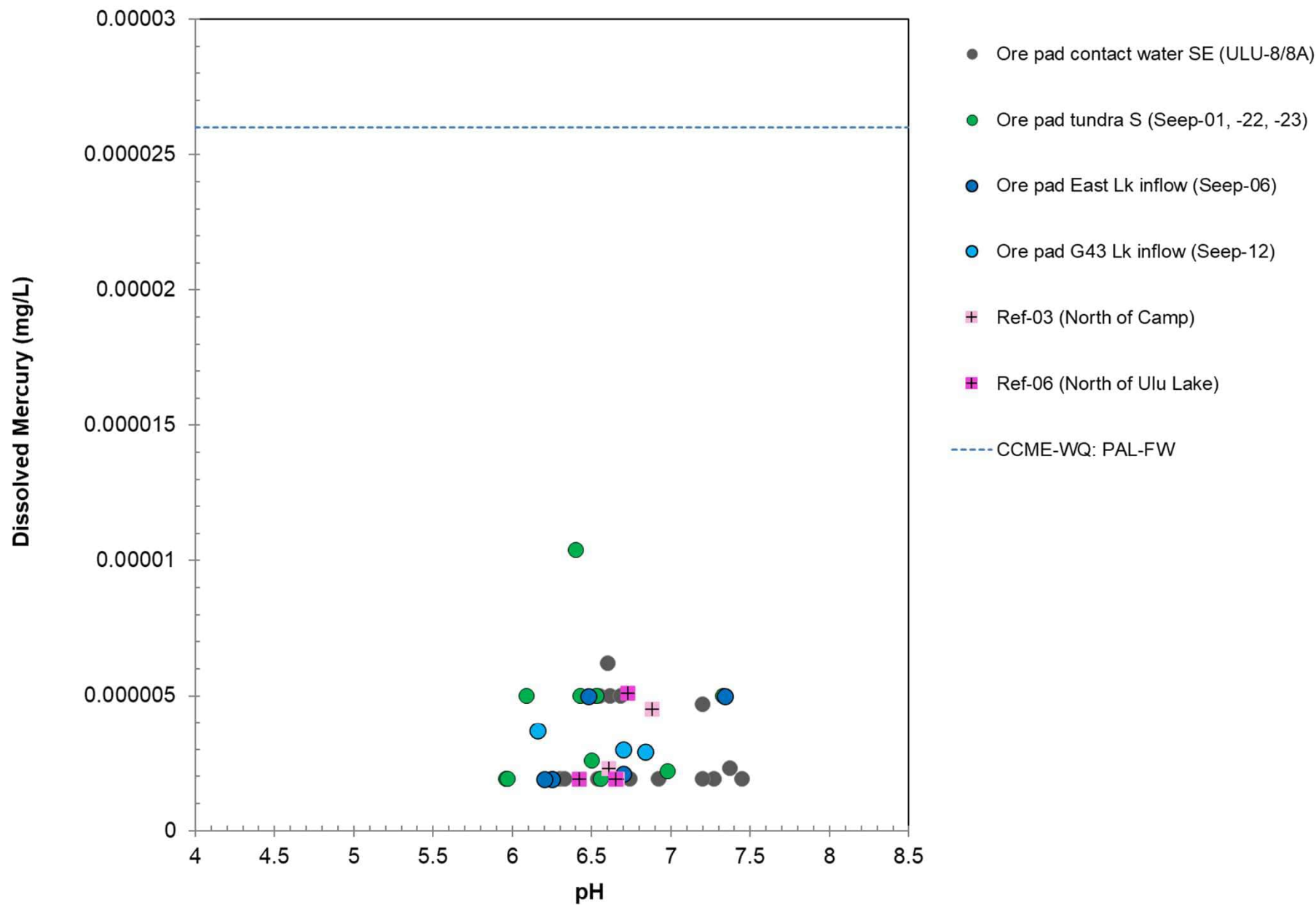


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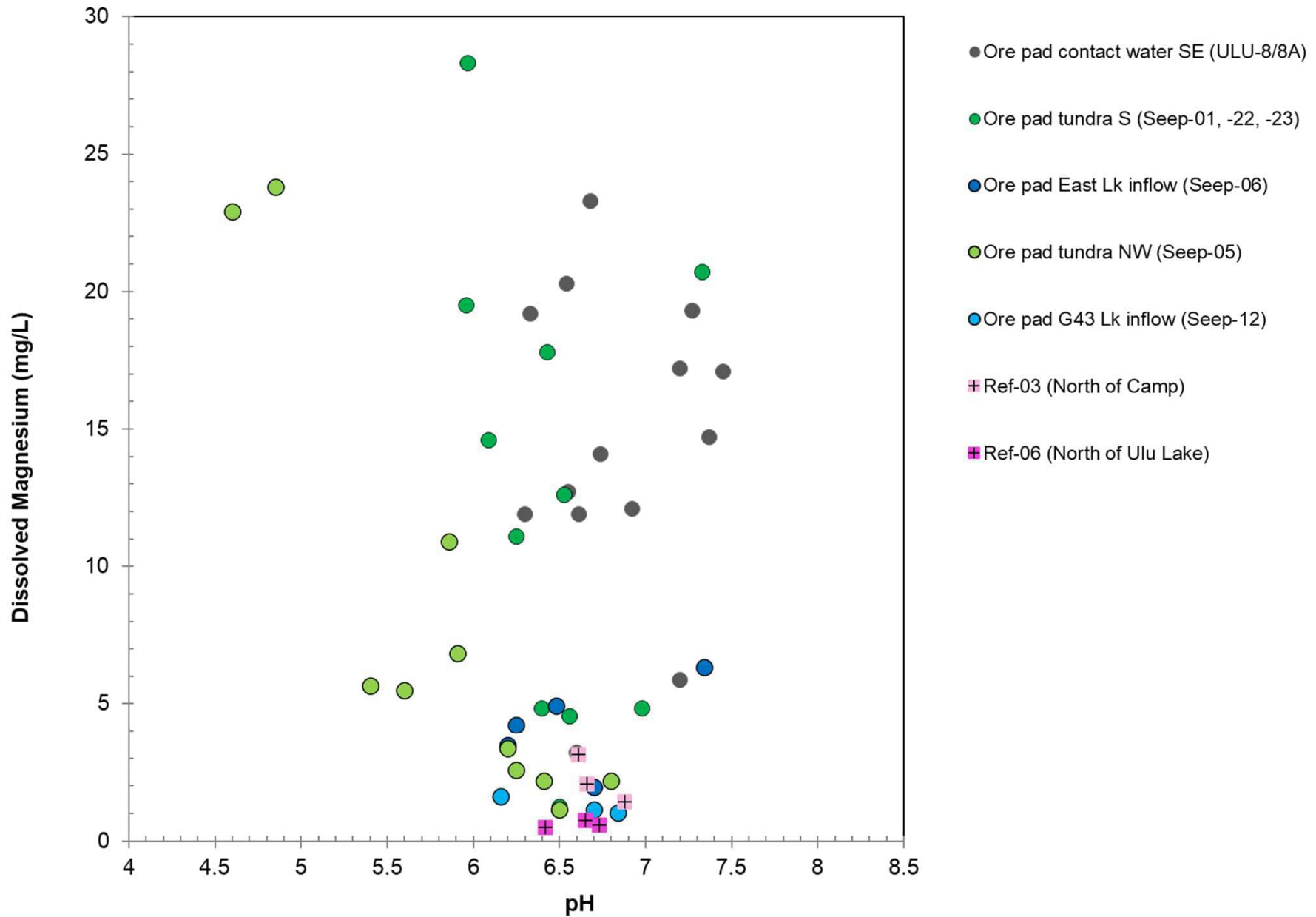




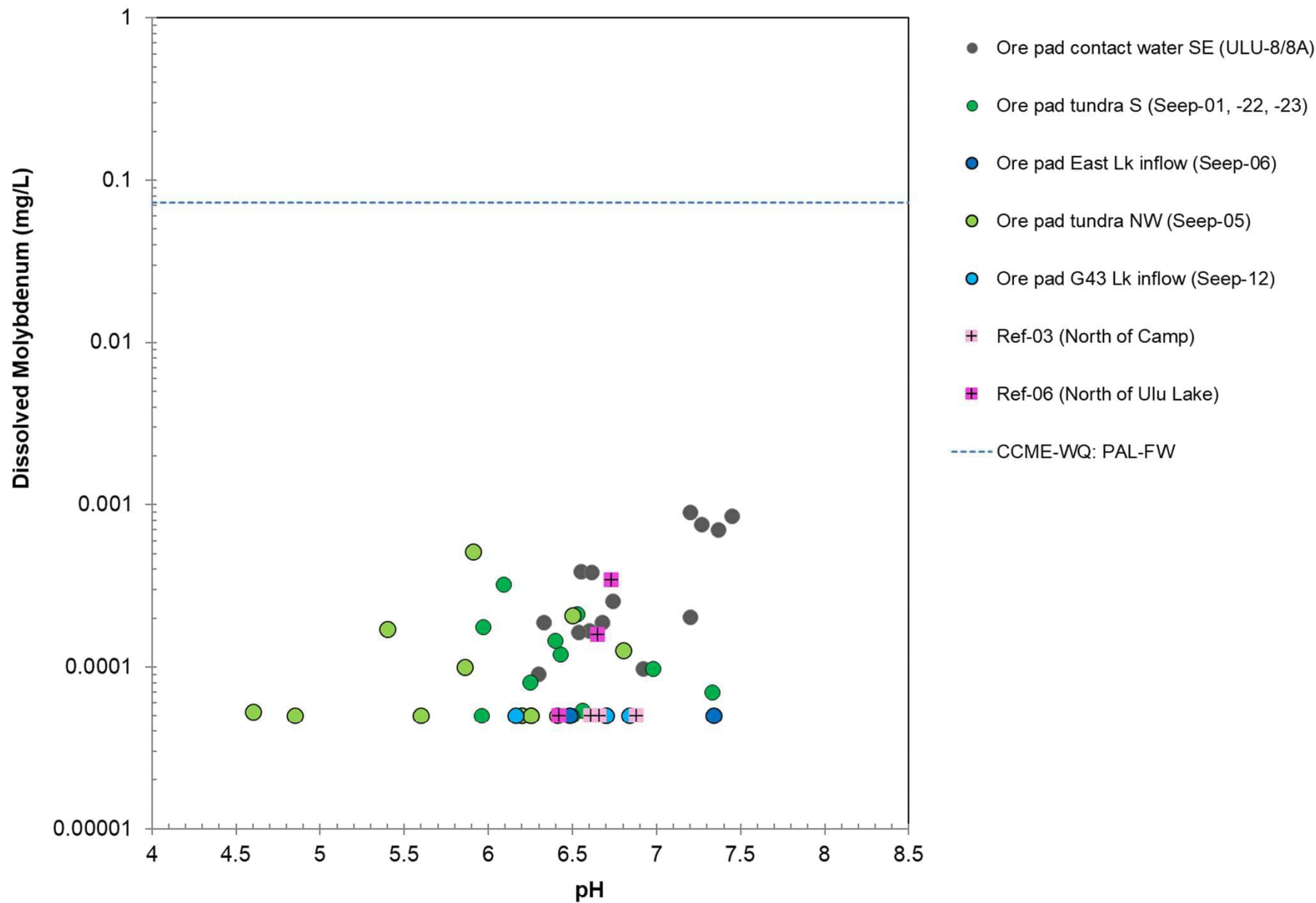
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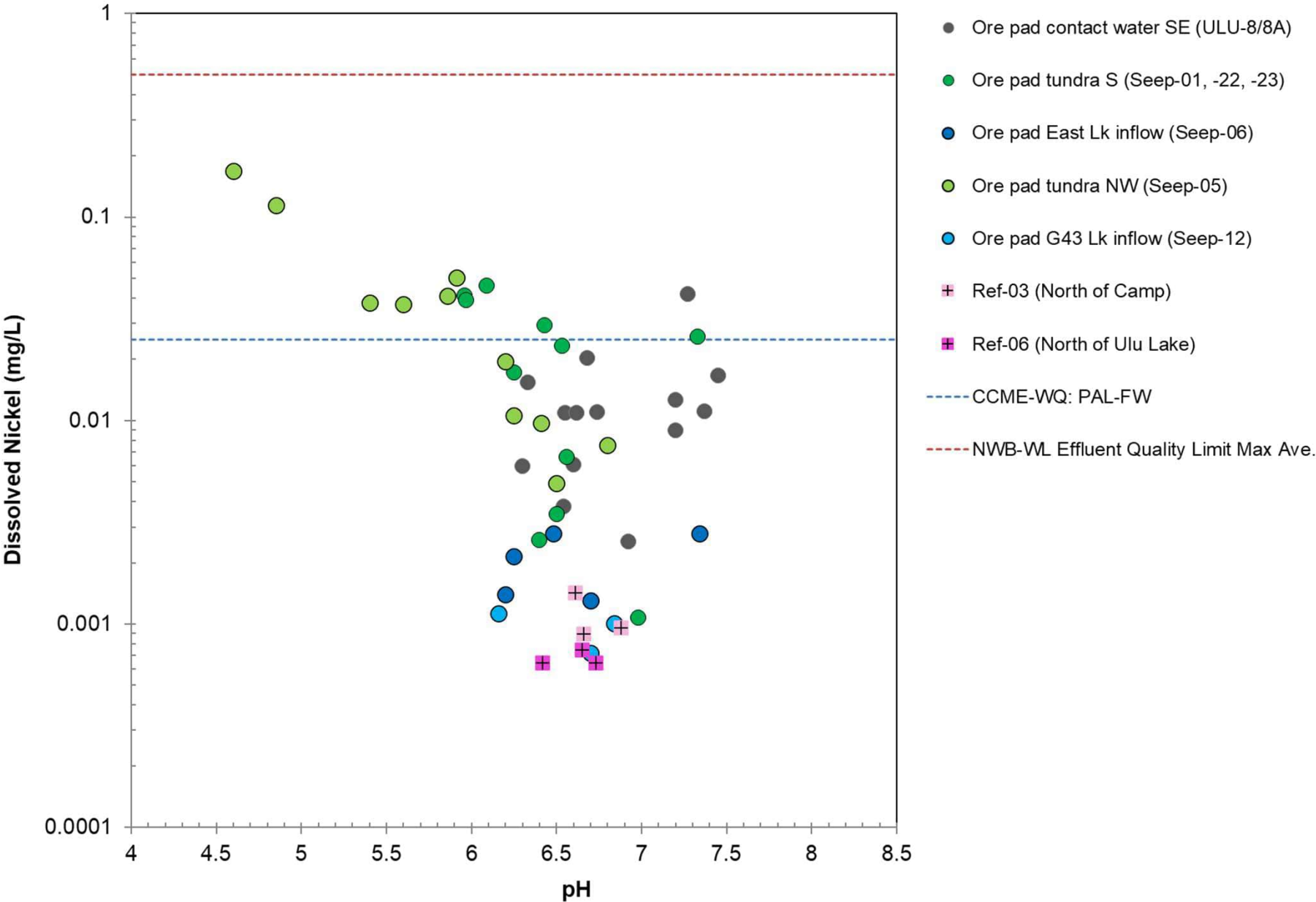
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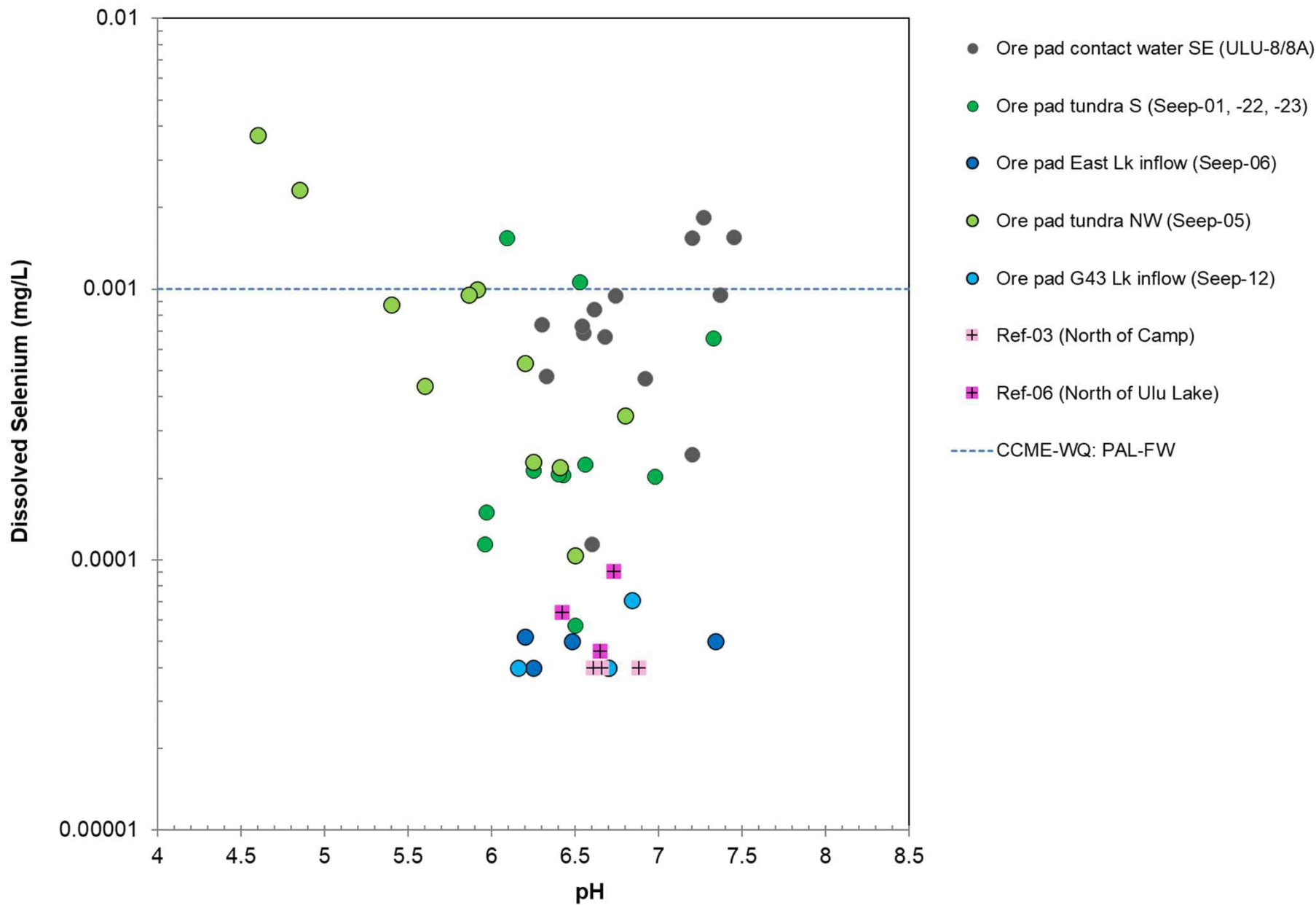
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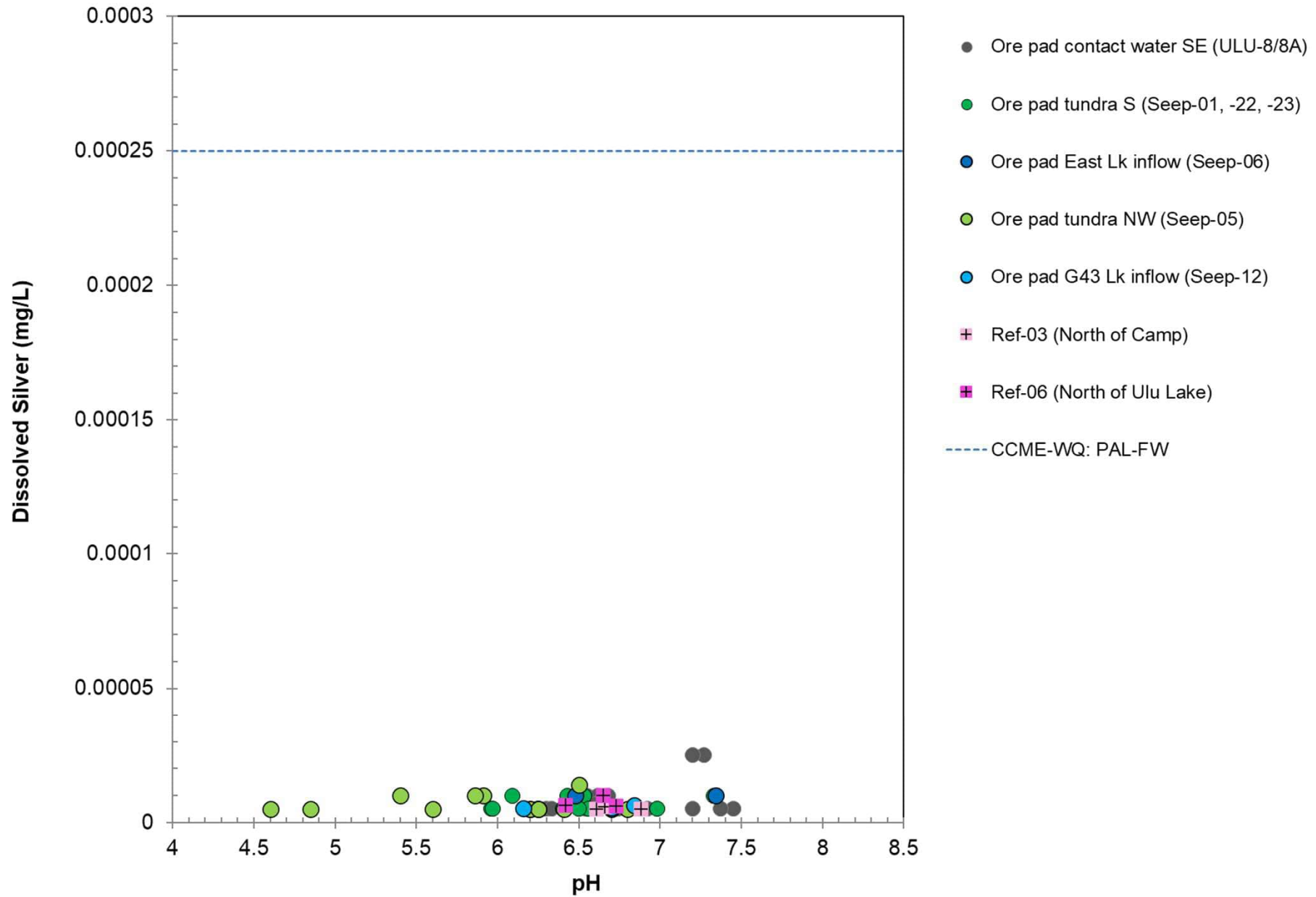
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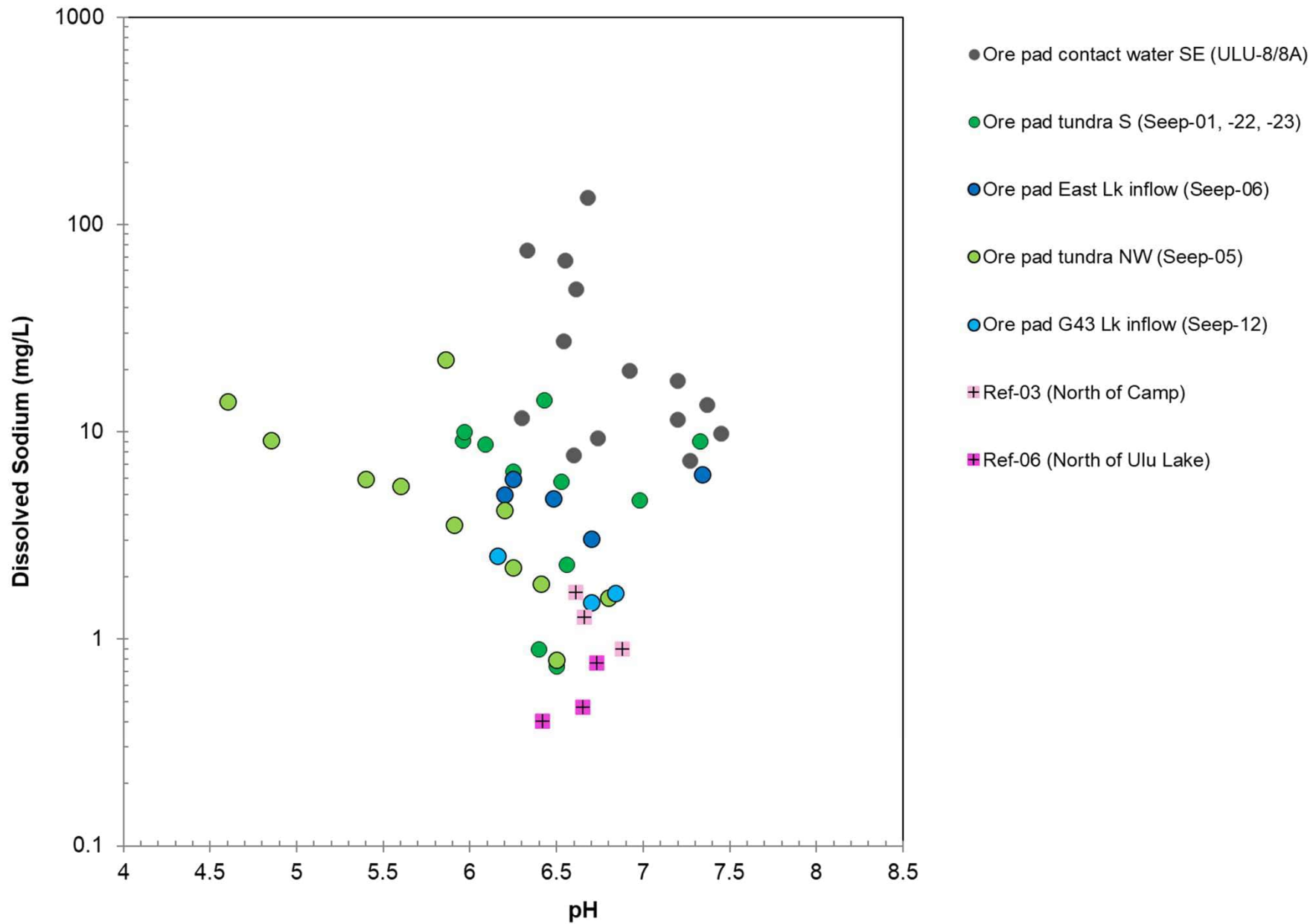
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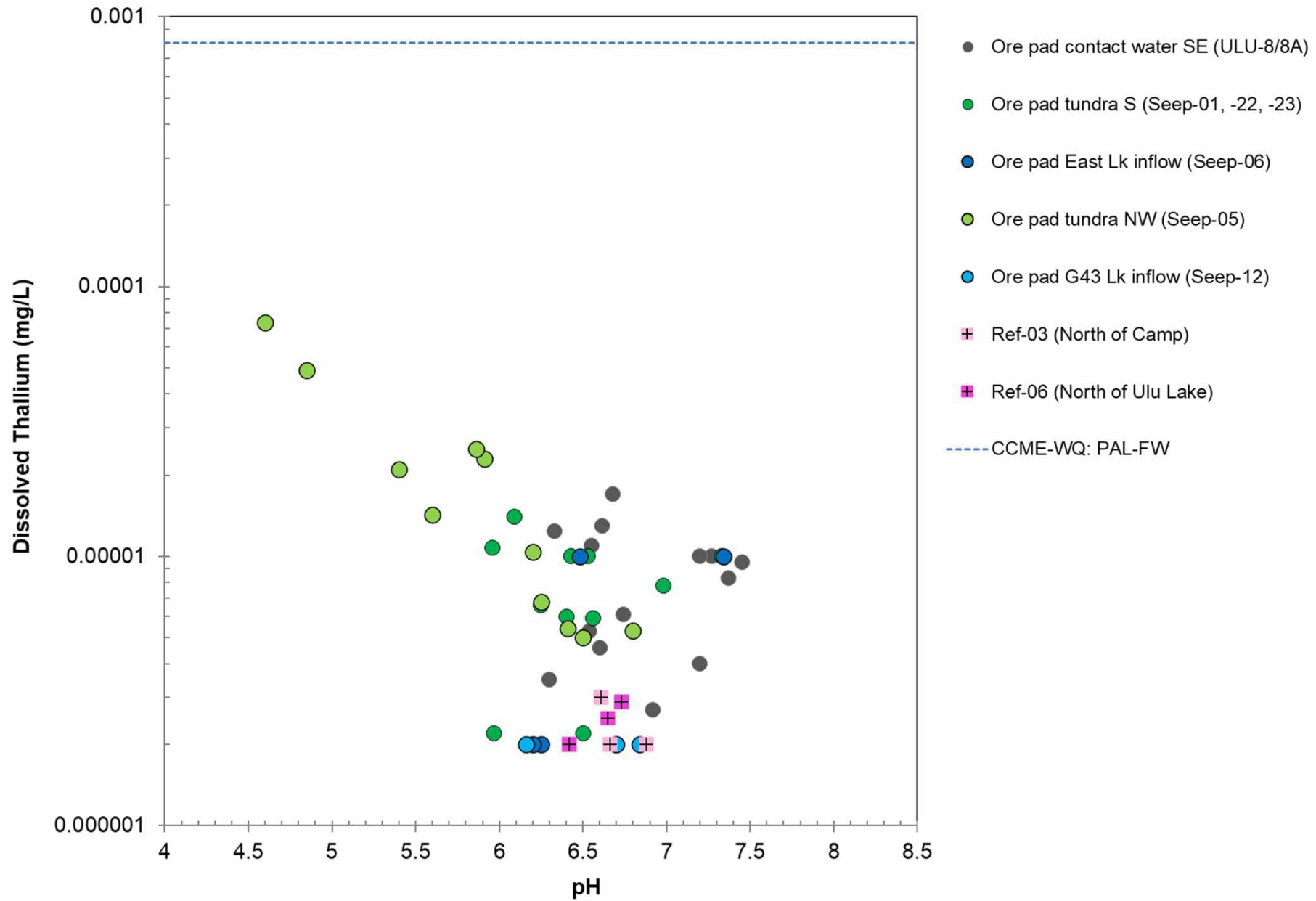
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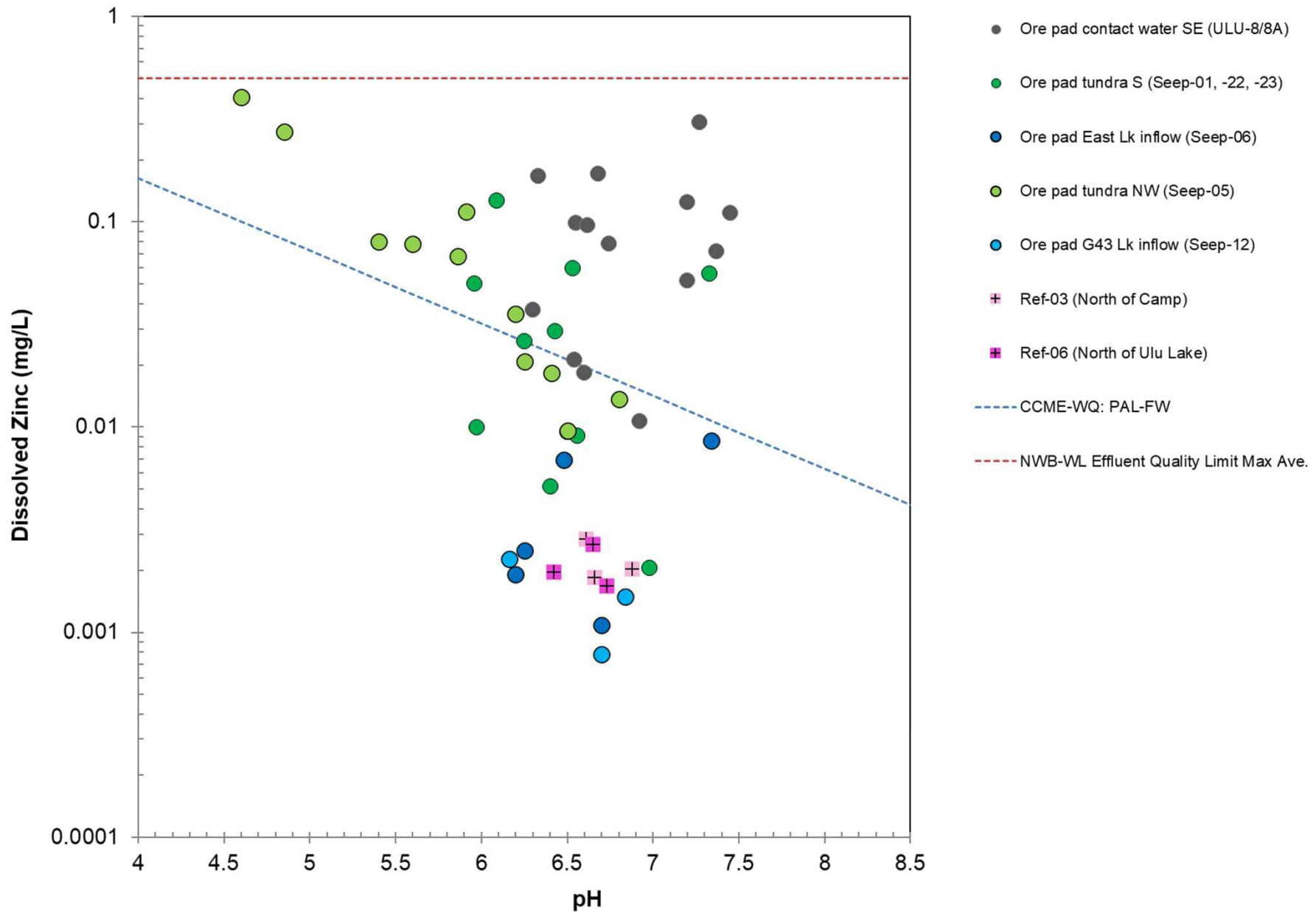


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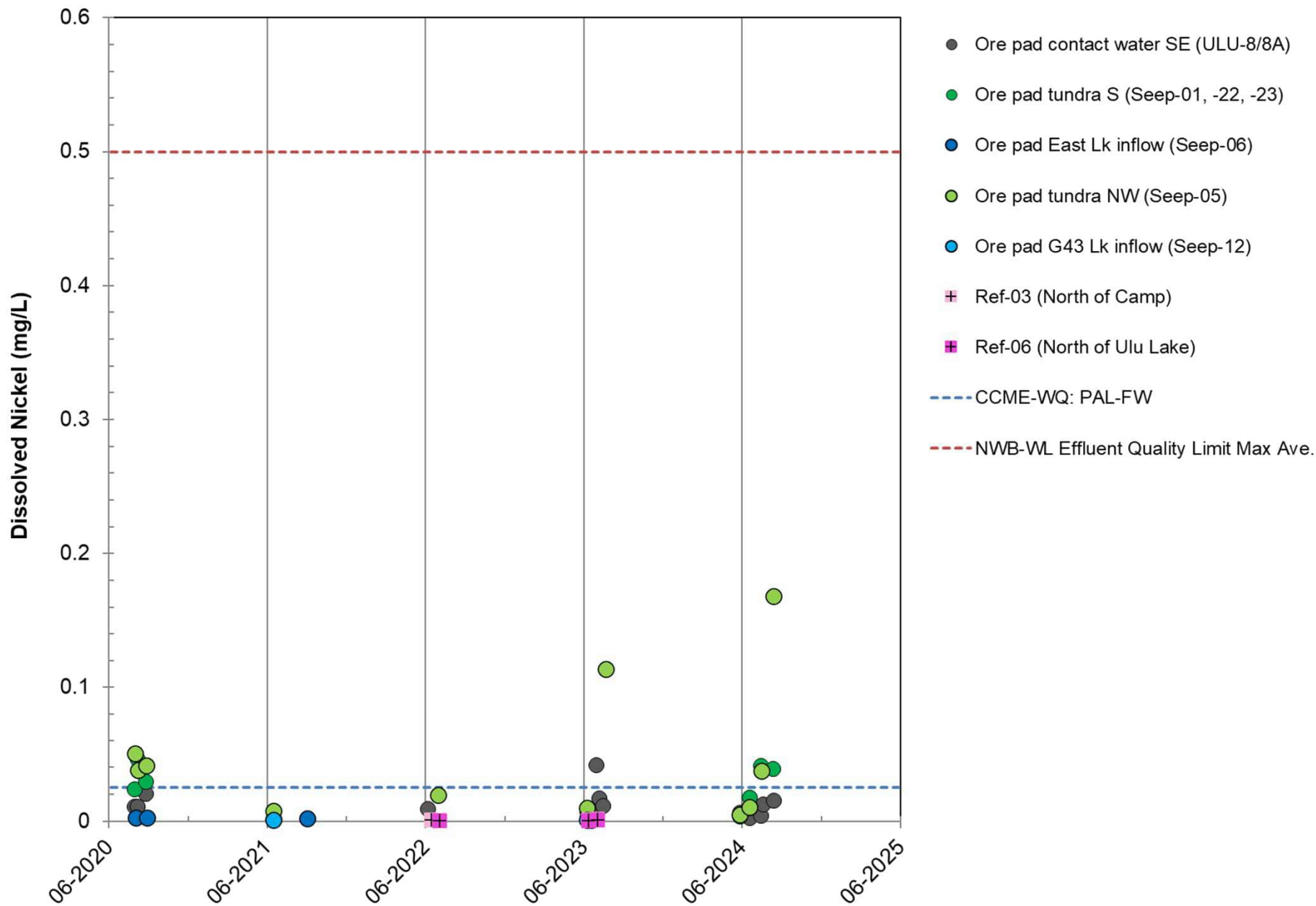


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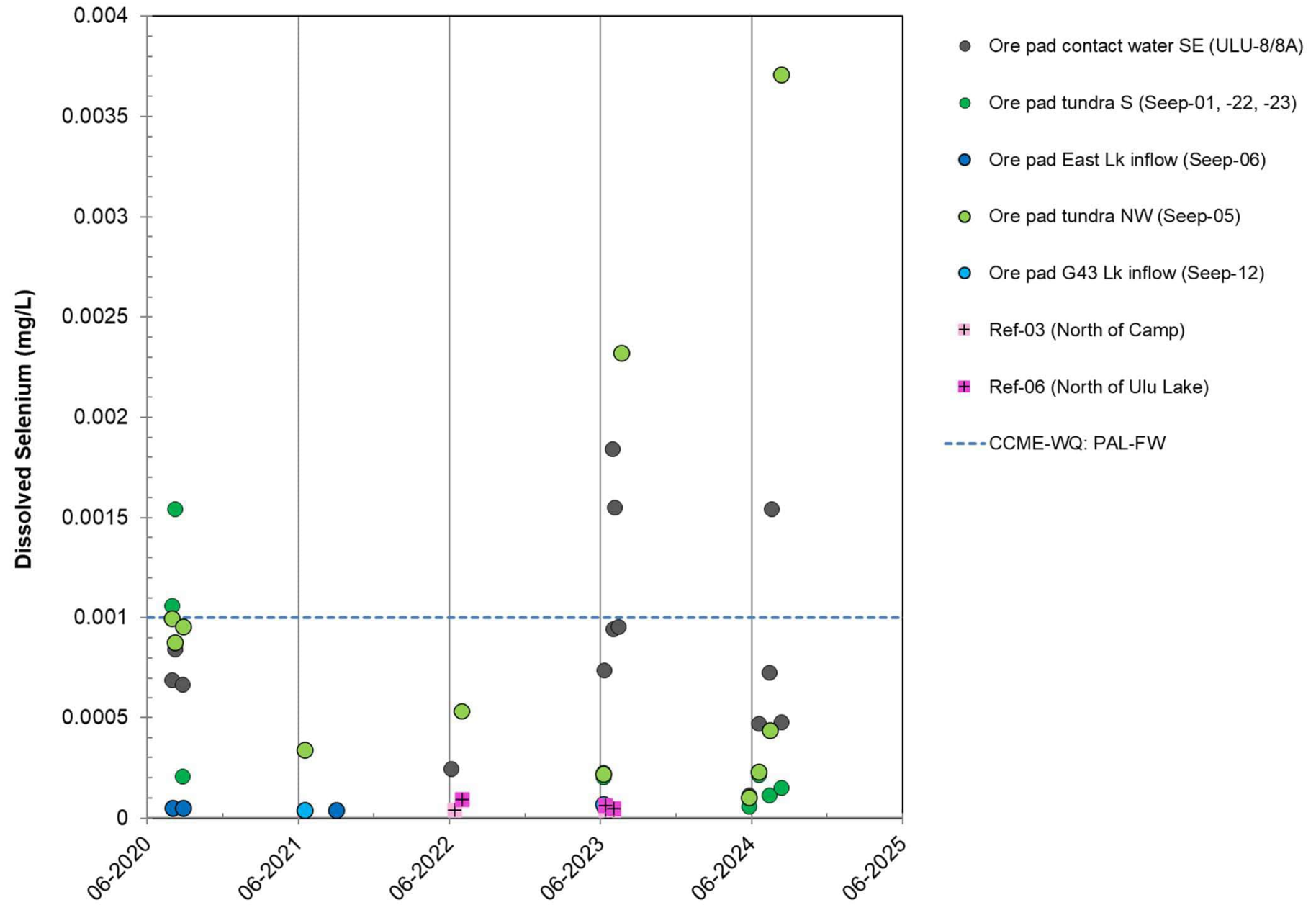




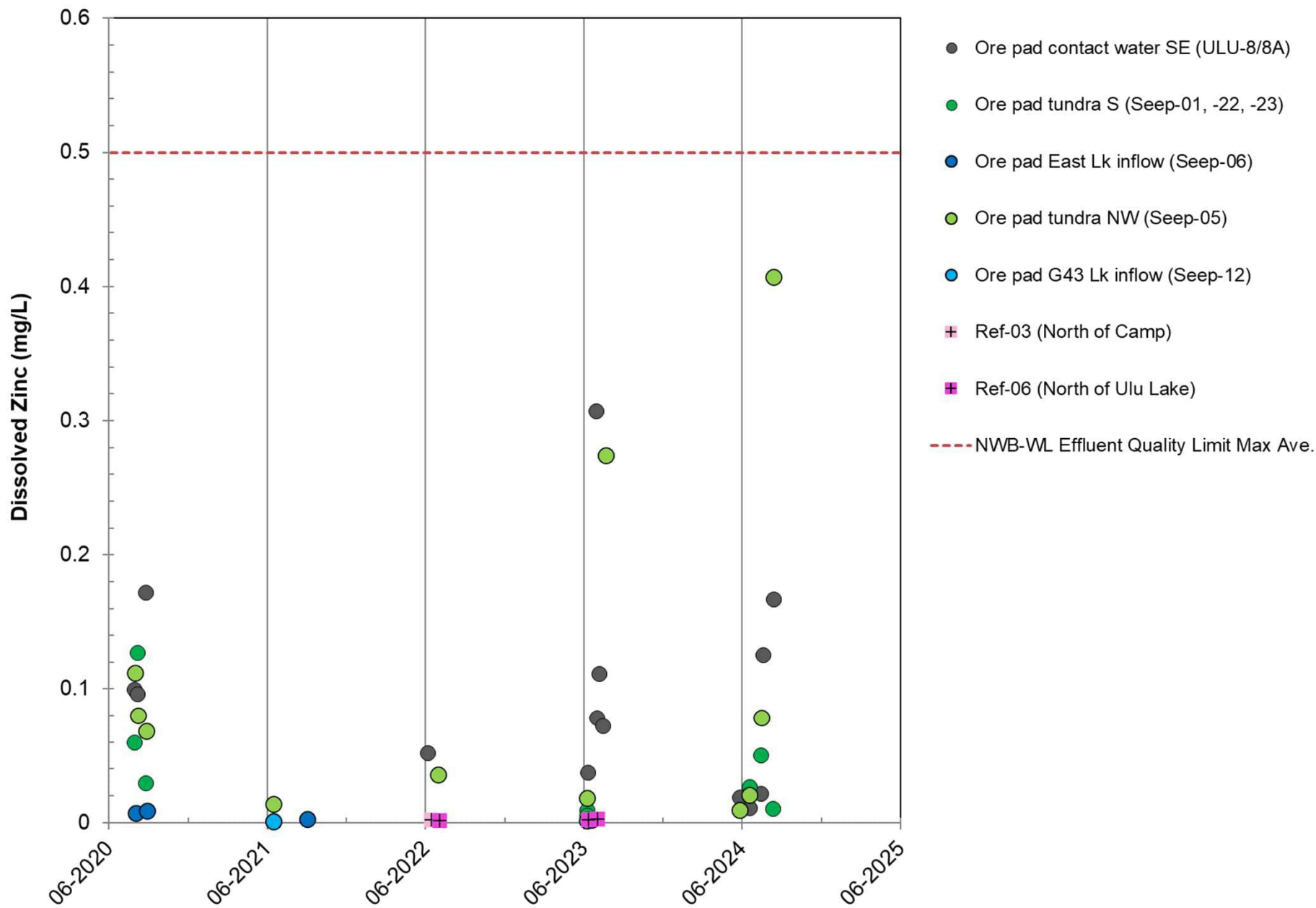
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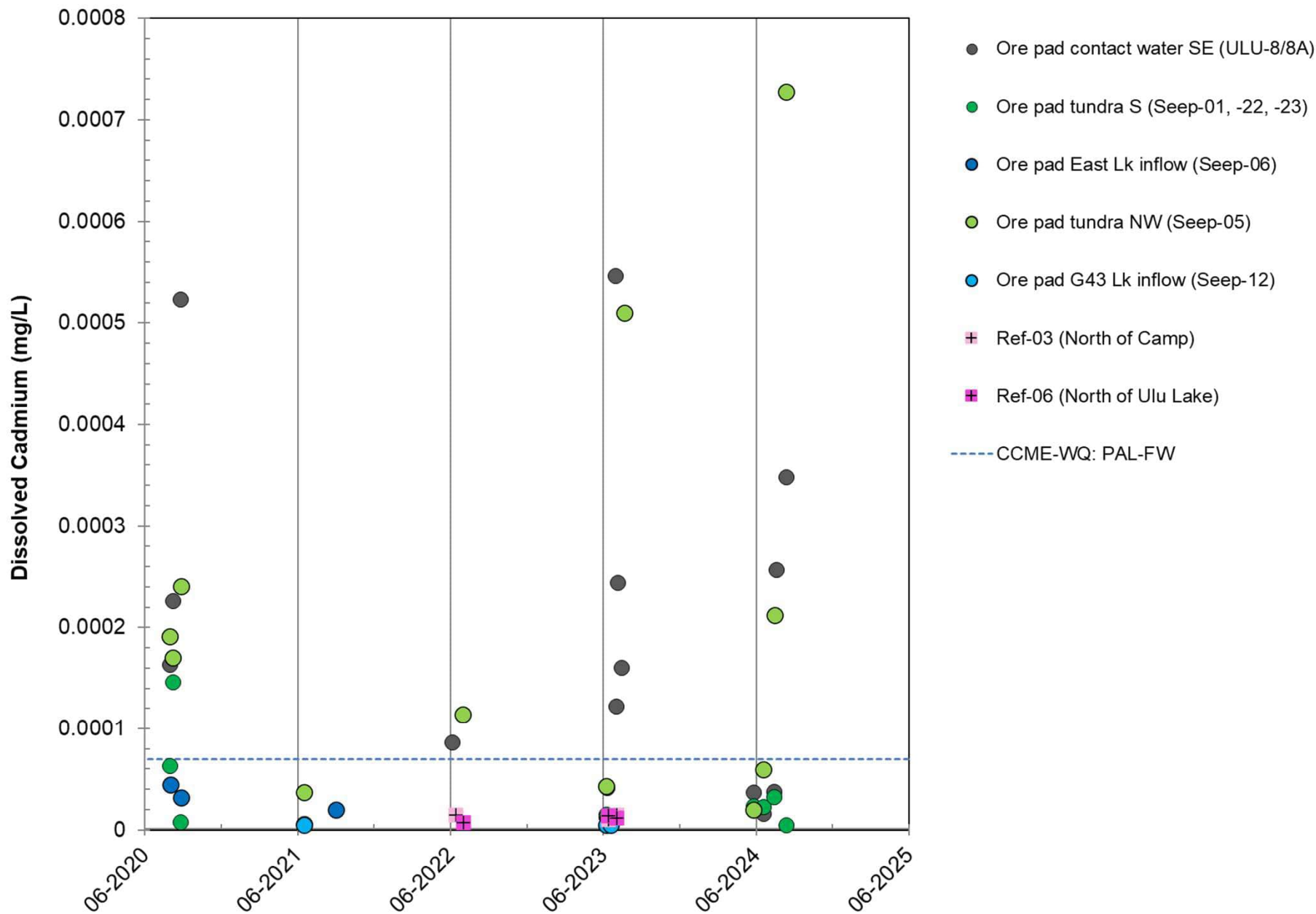
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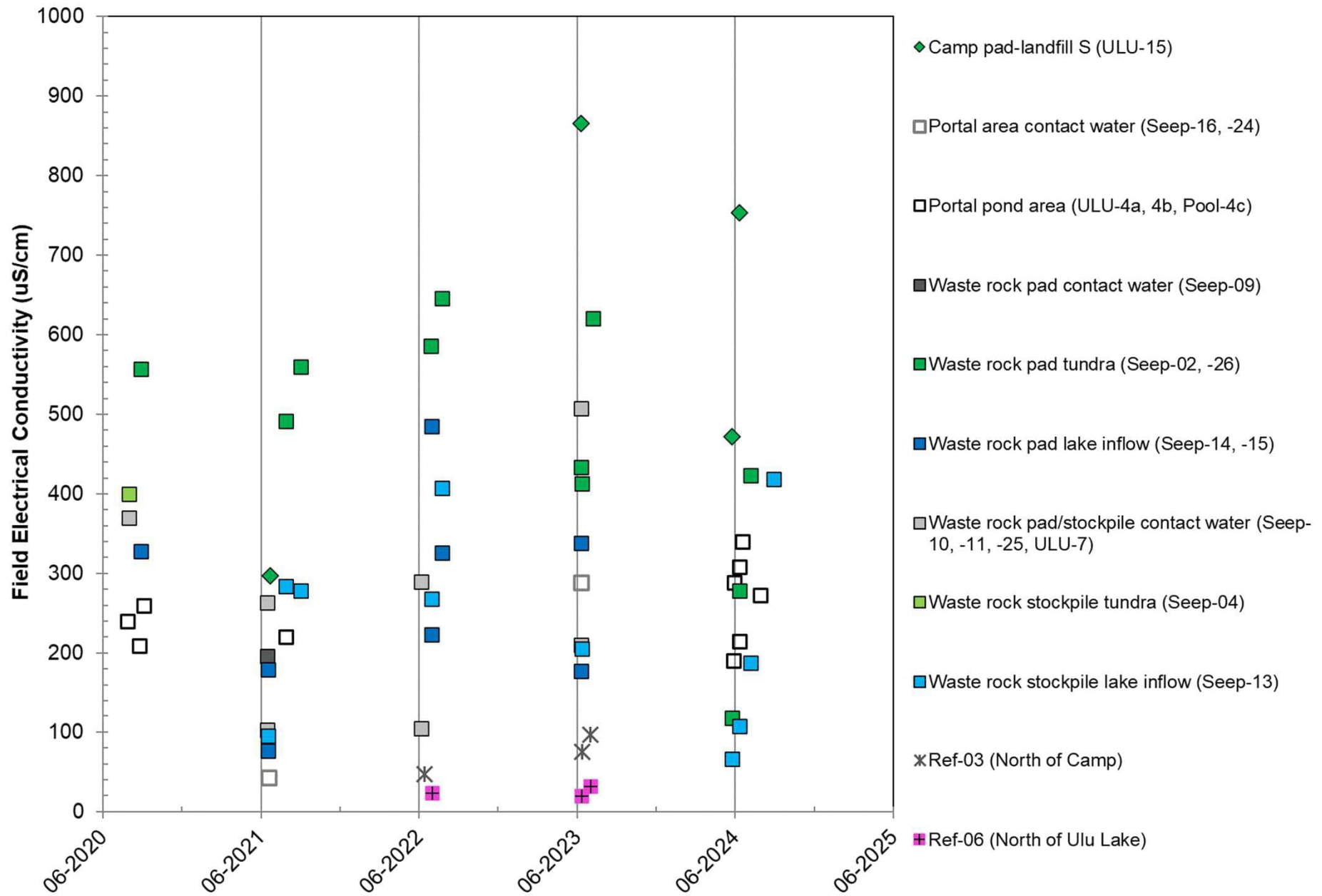
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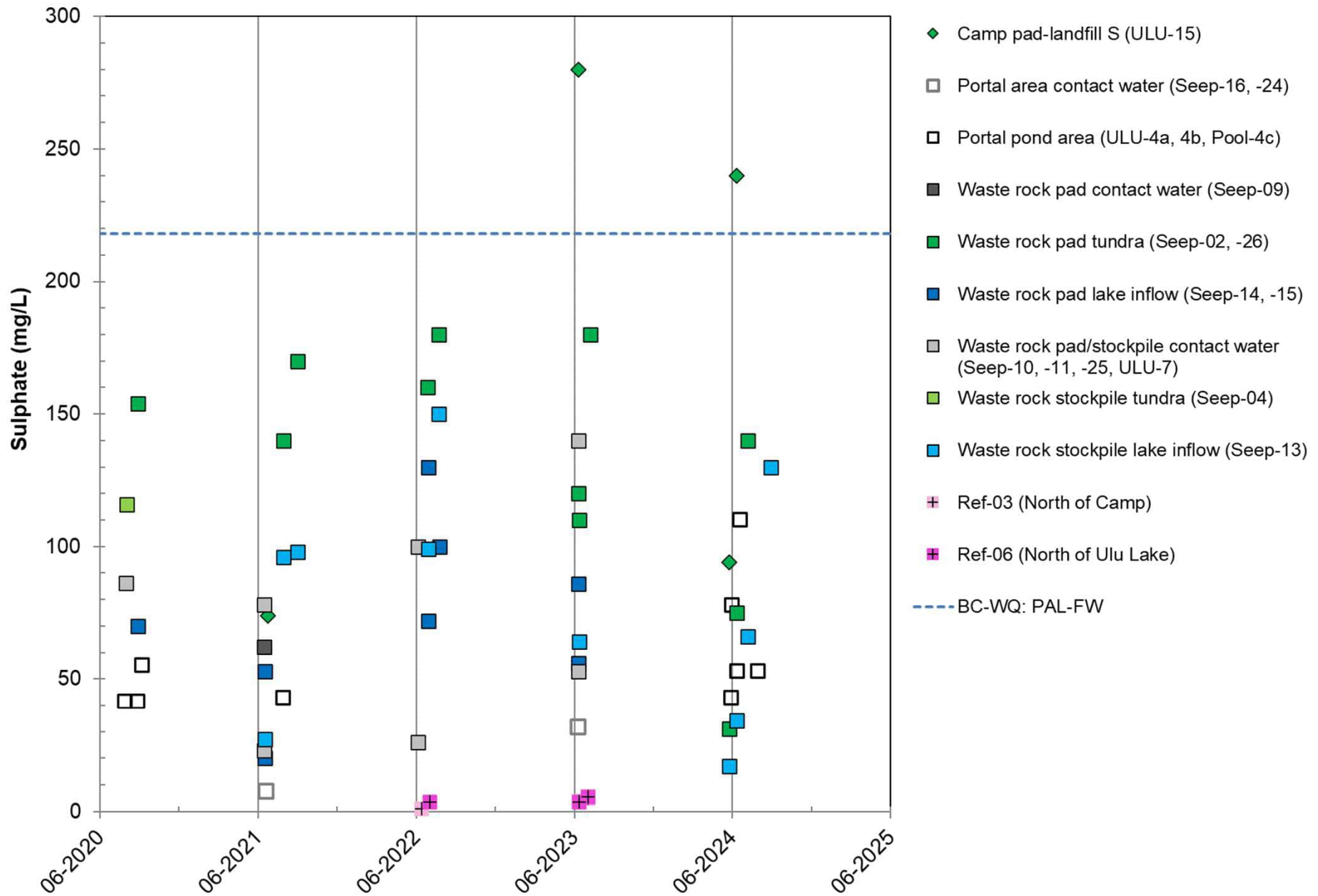
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Waste Rock-Portal Pad Area and Landfill Seepage Charts

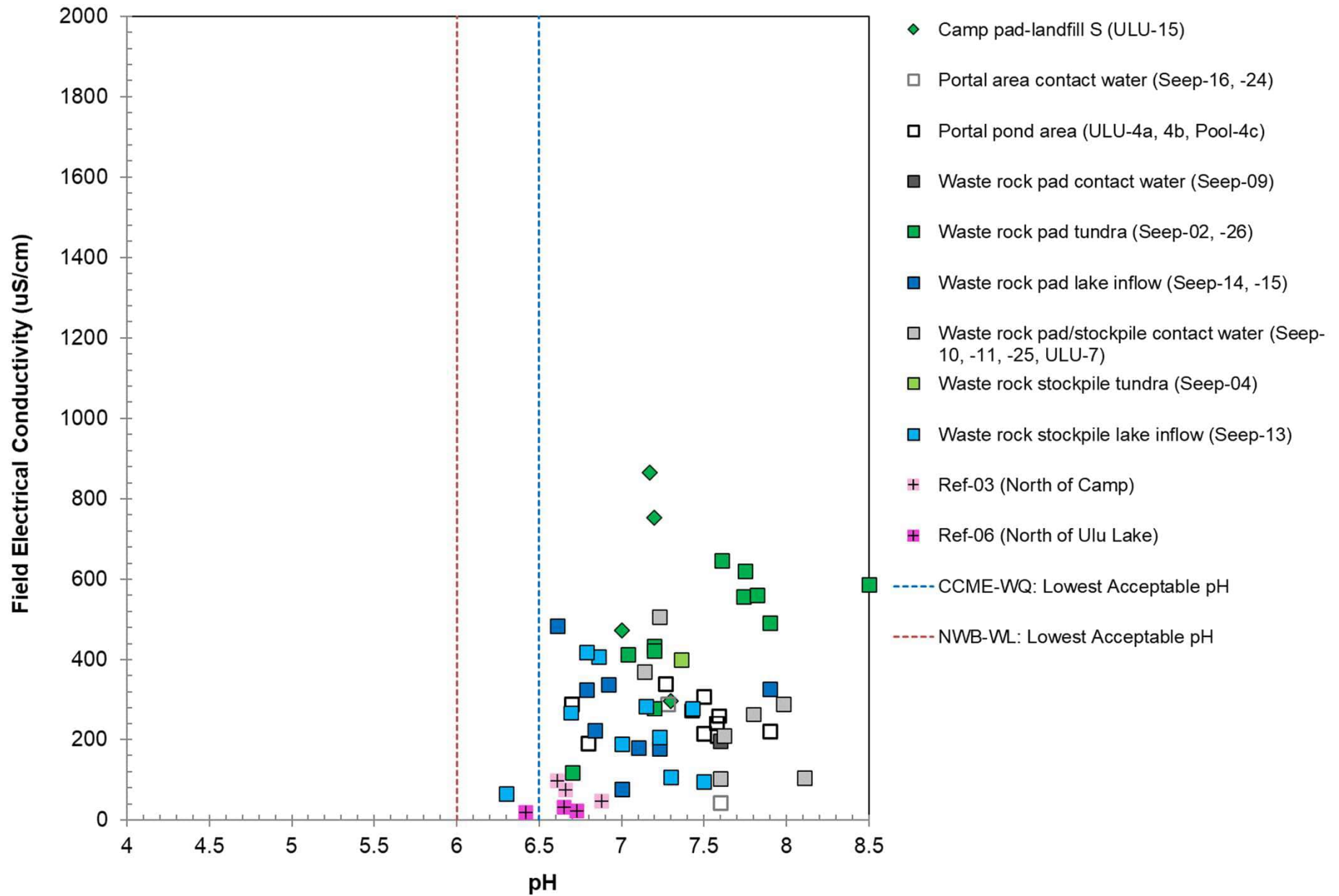




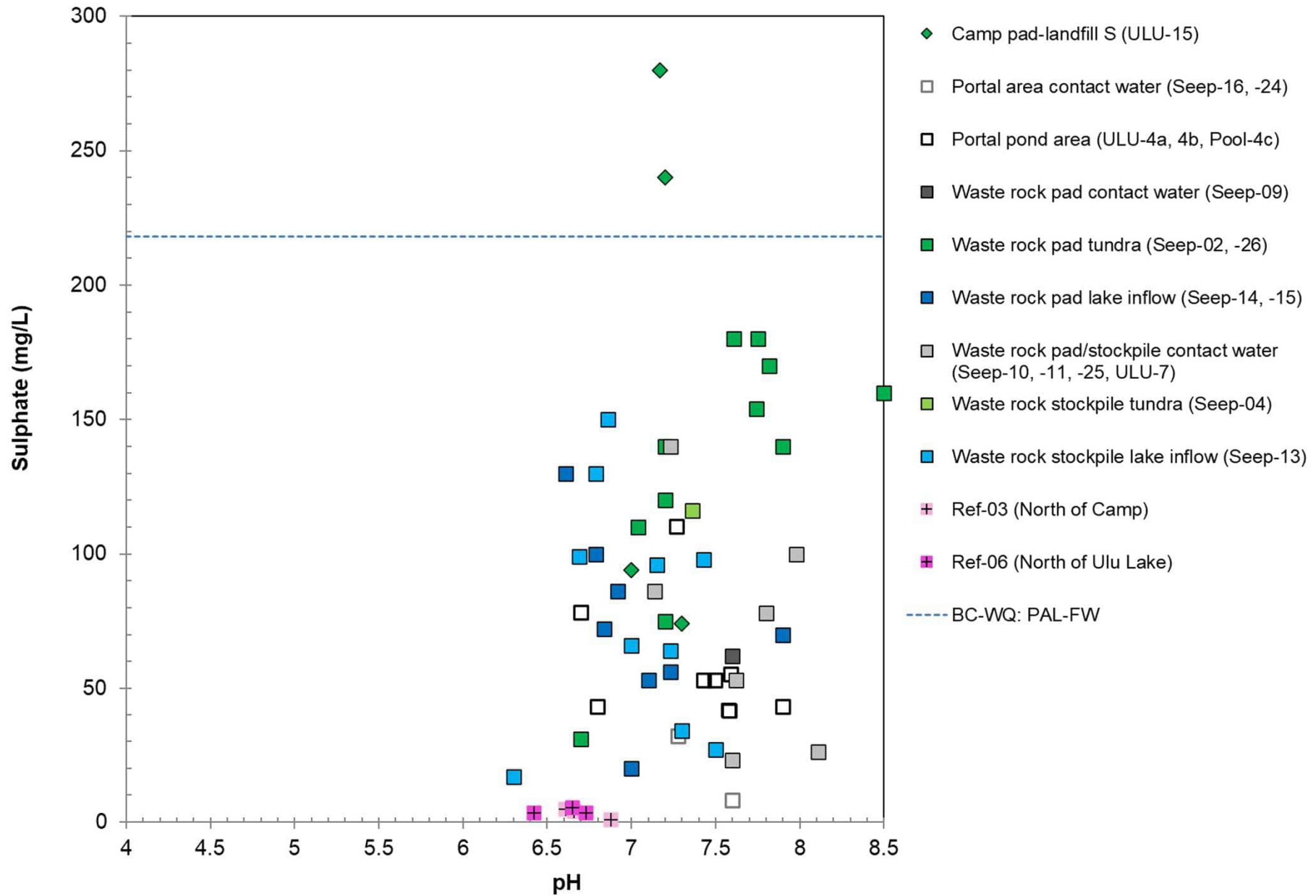
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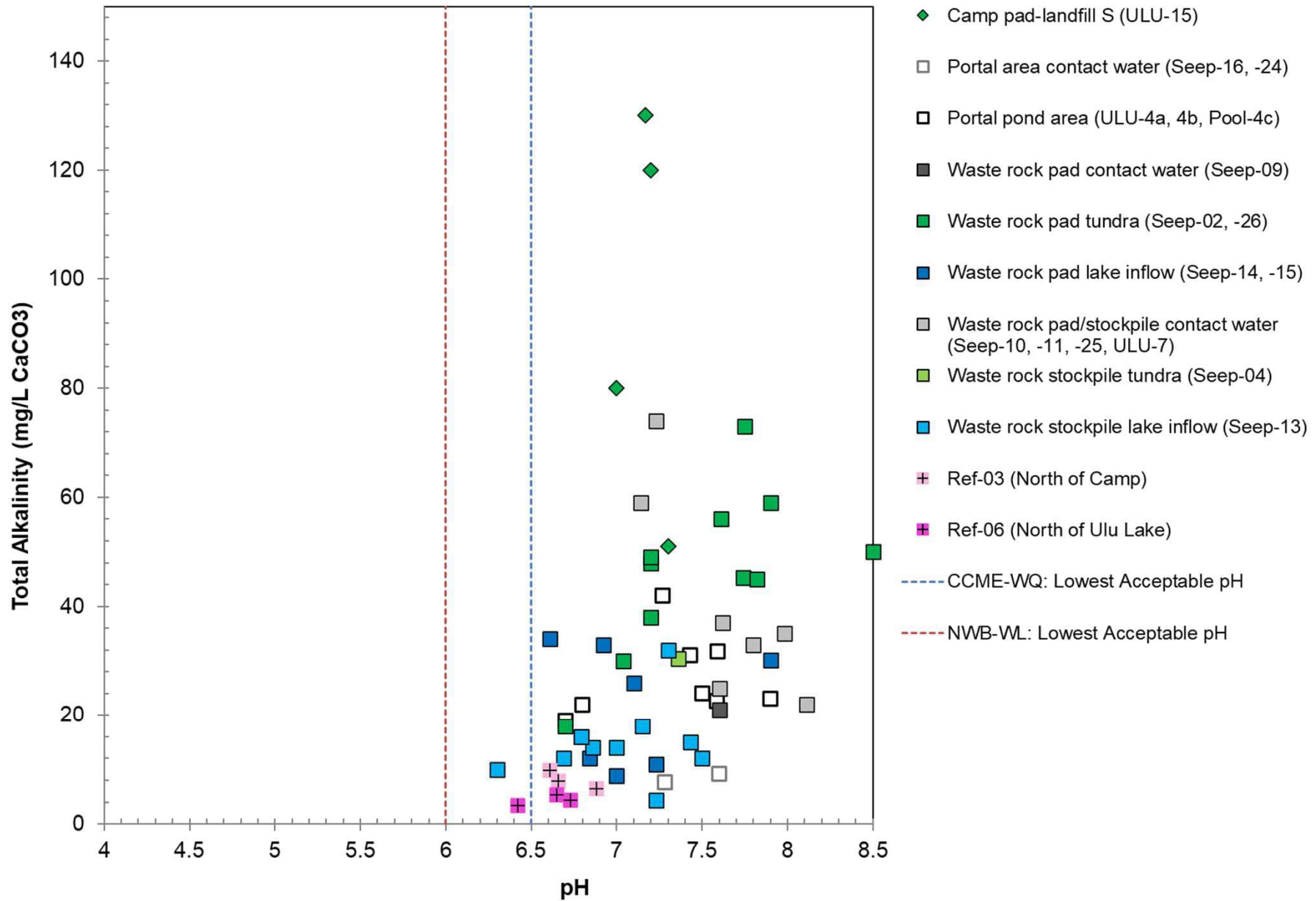
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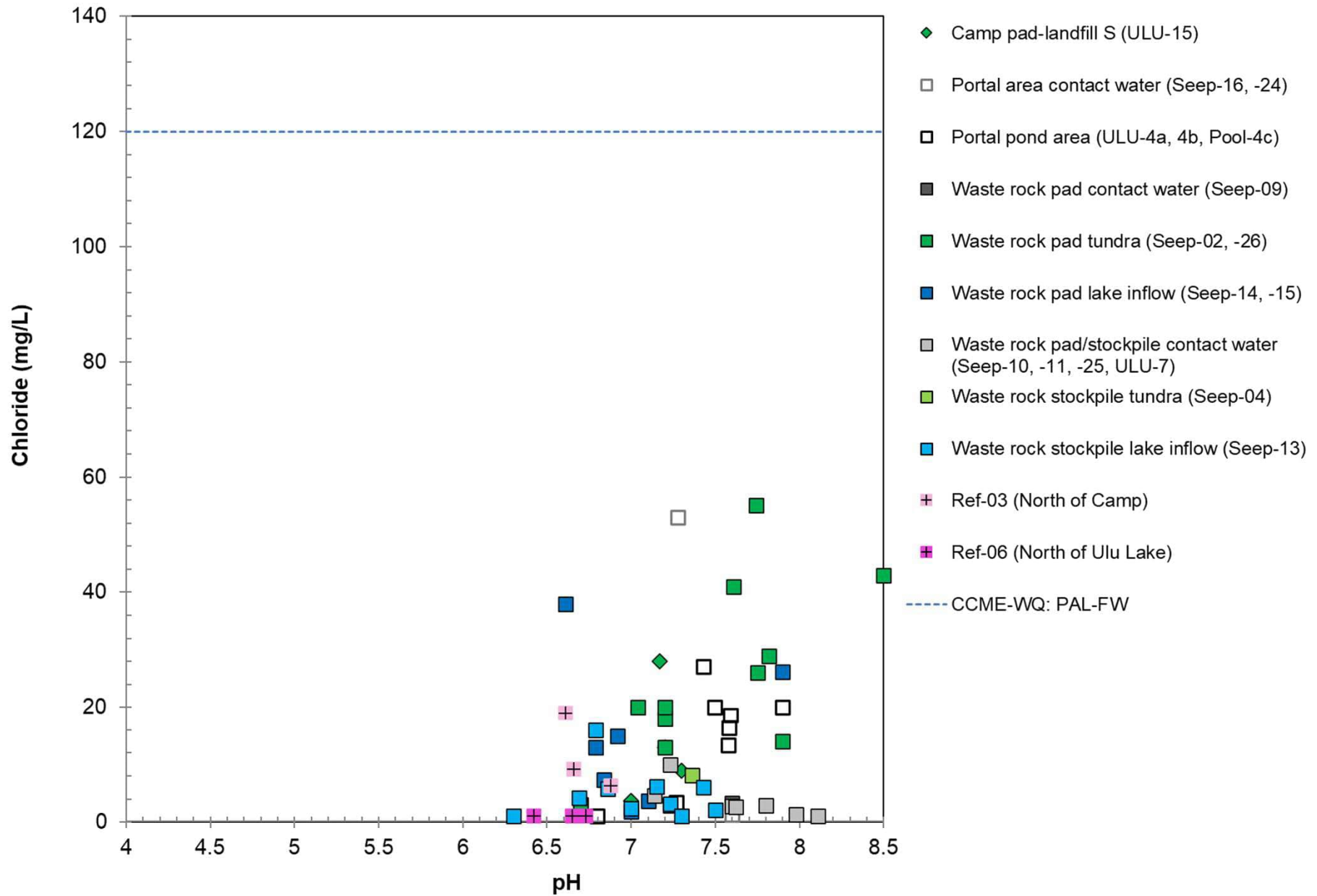
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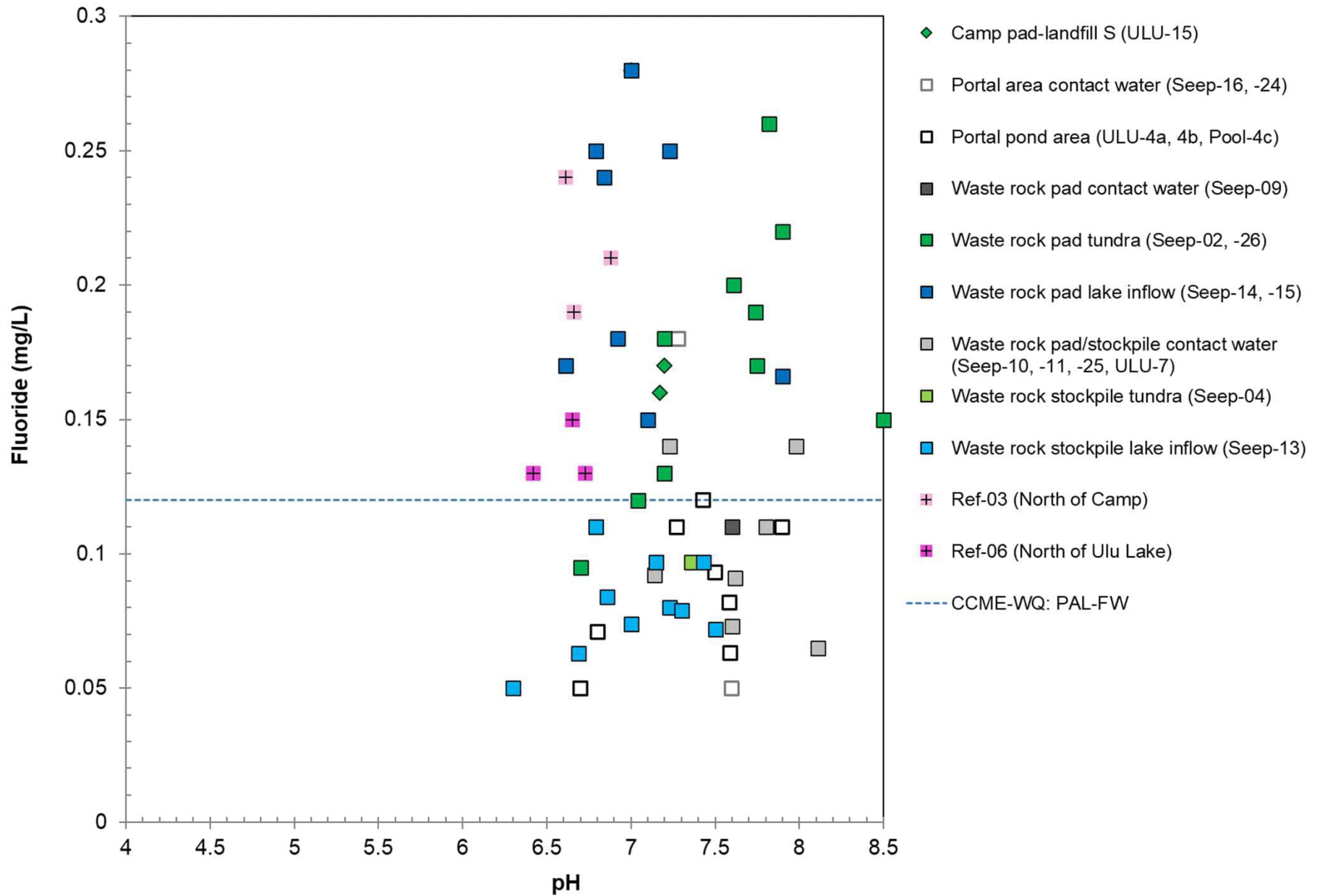
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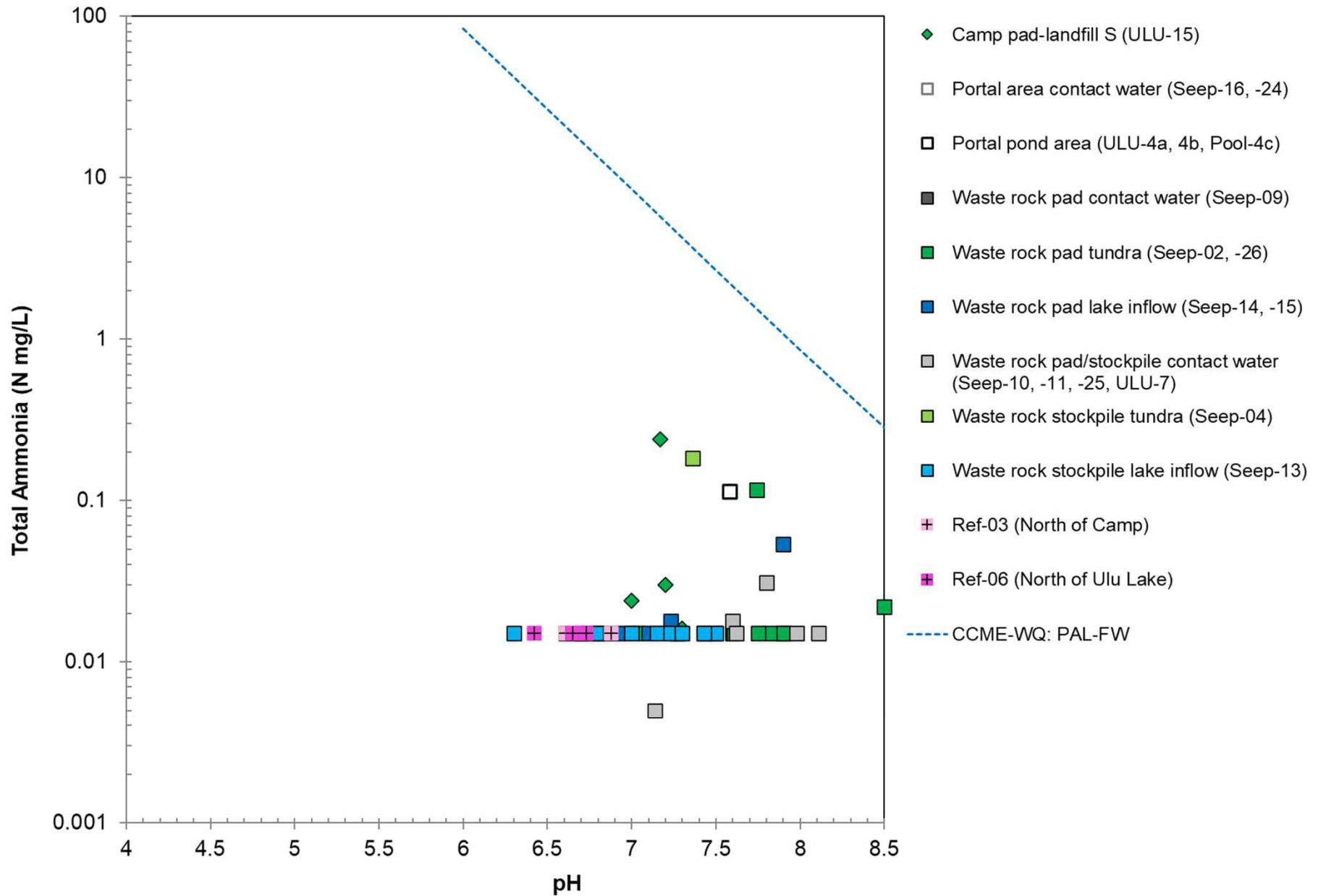
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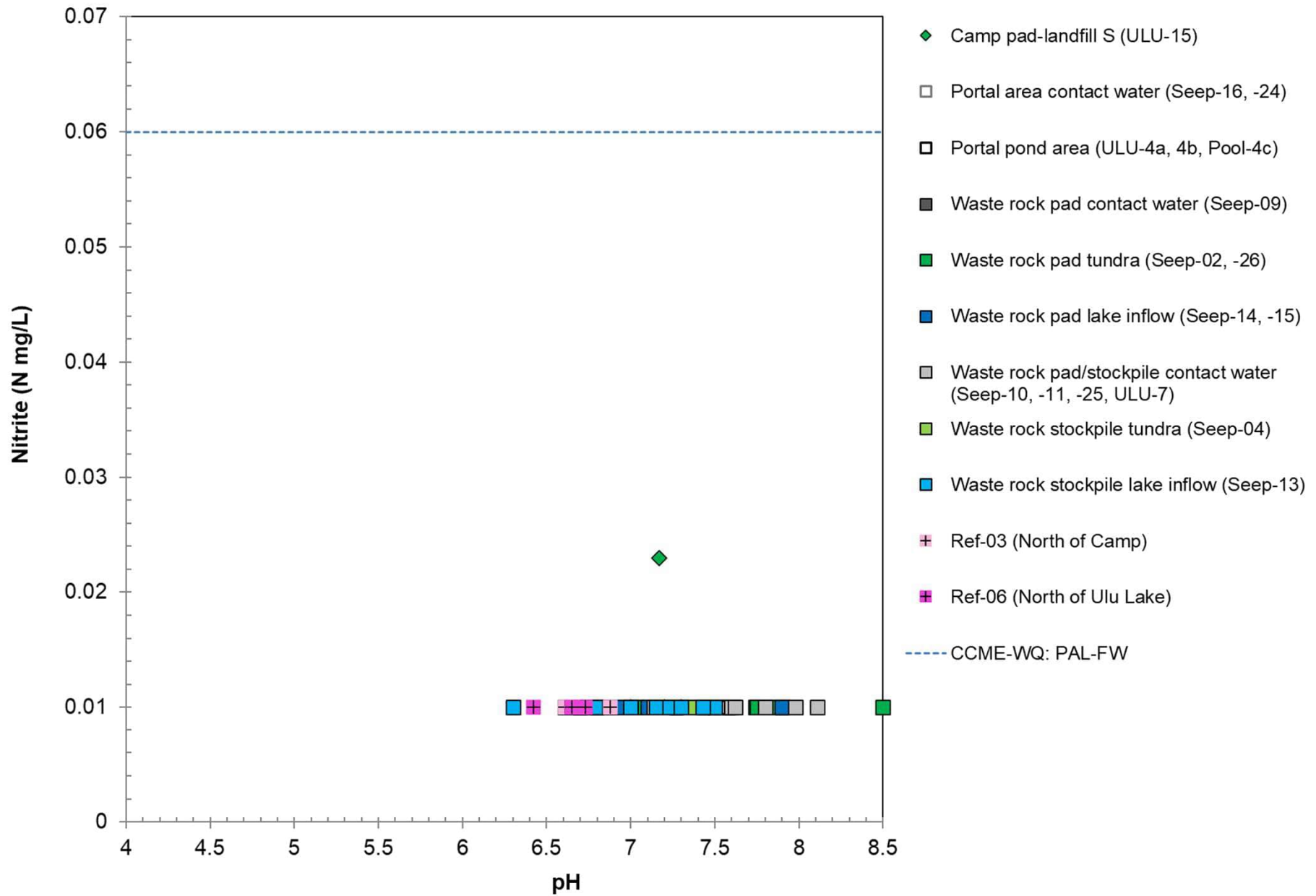
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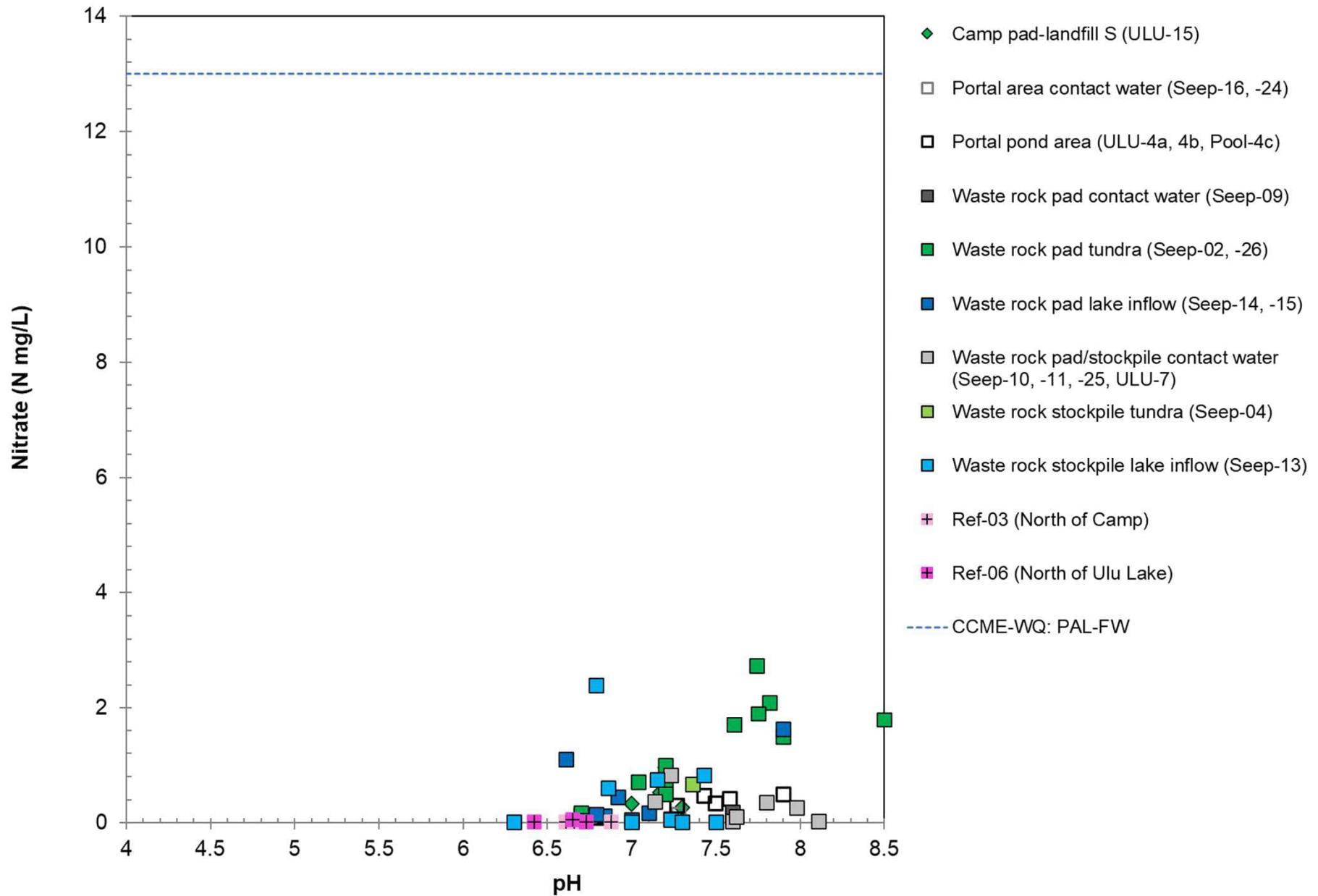
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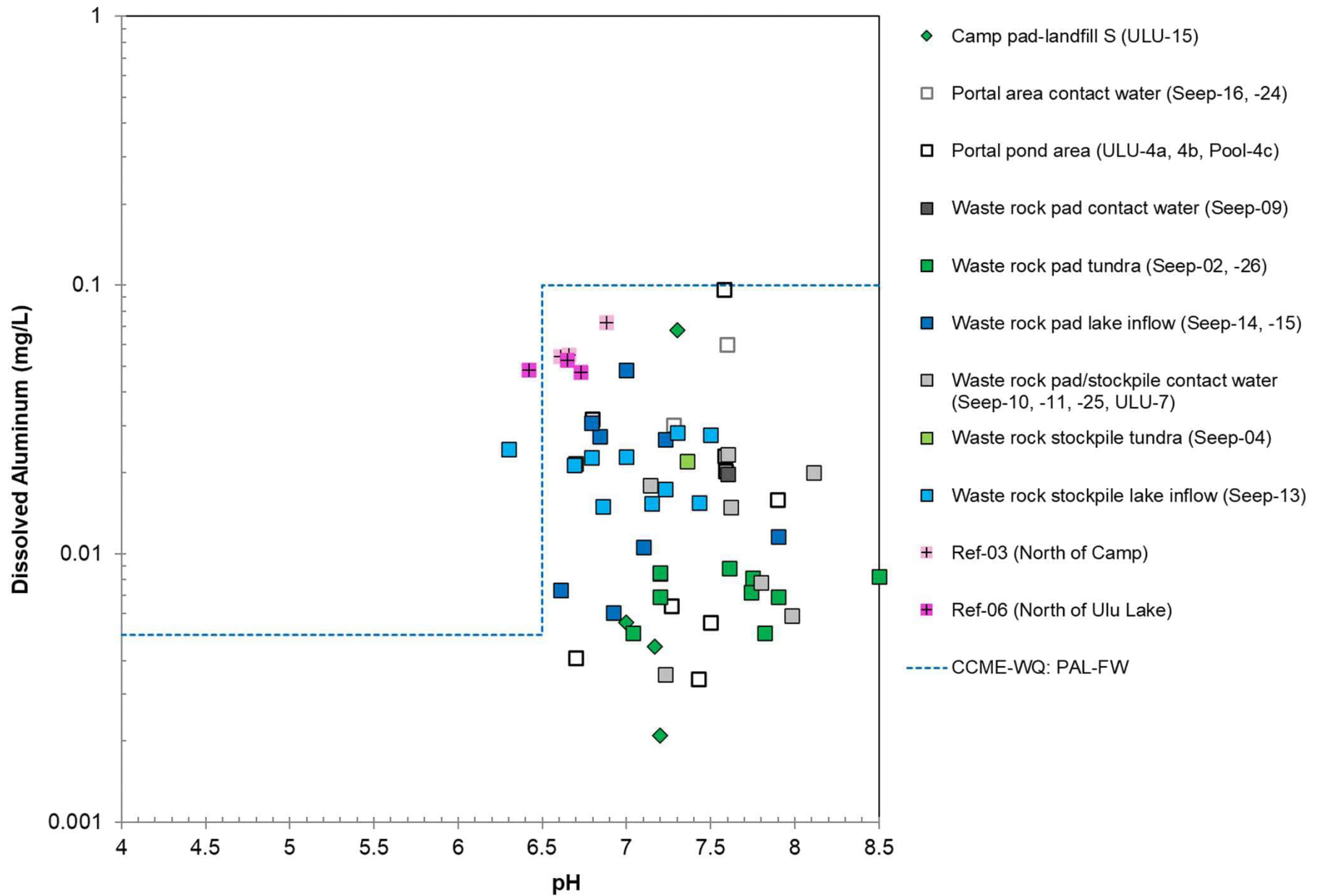
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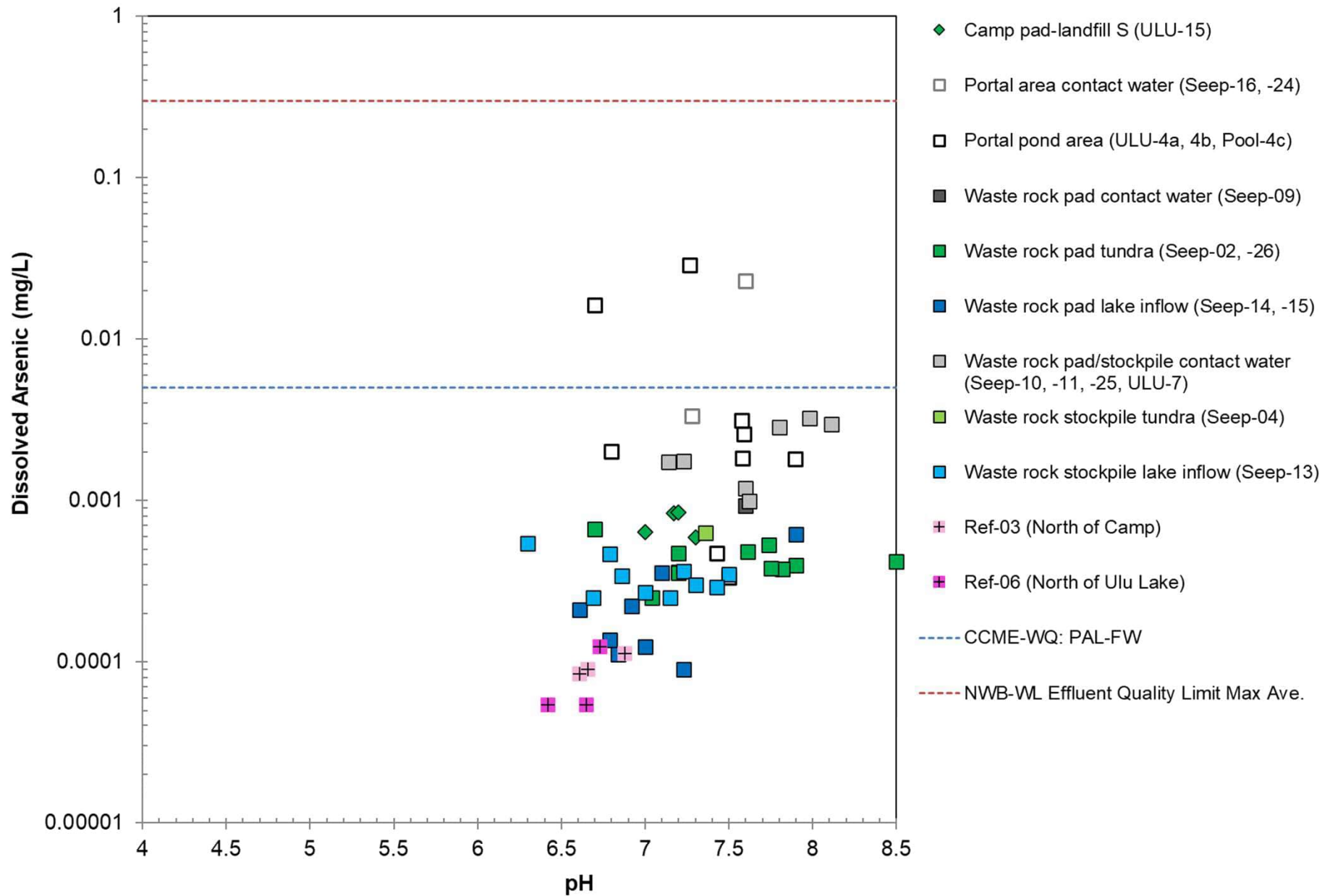
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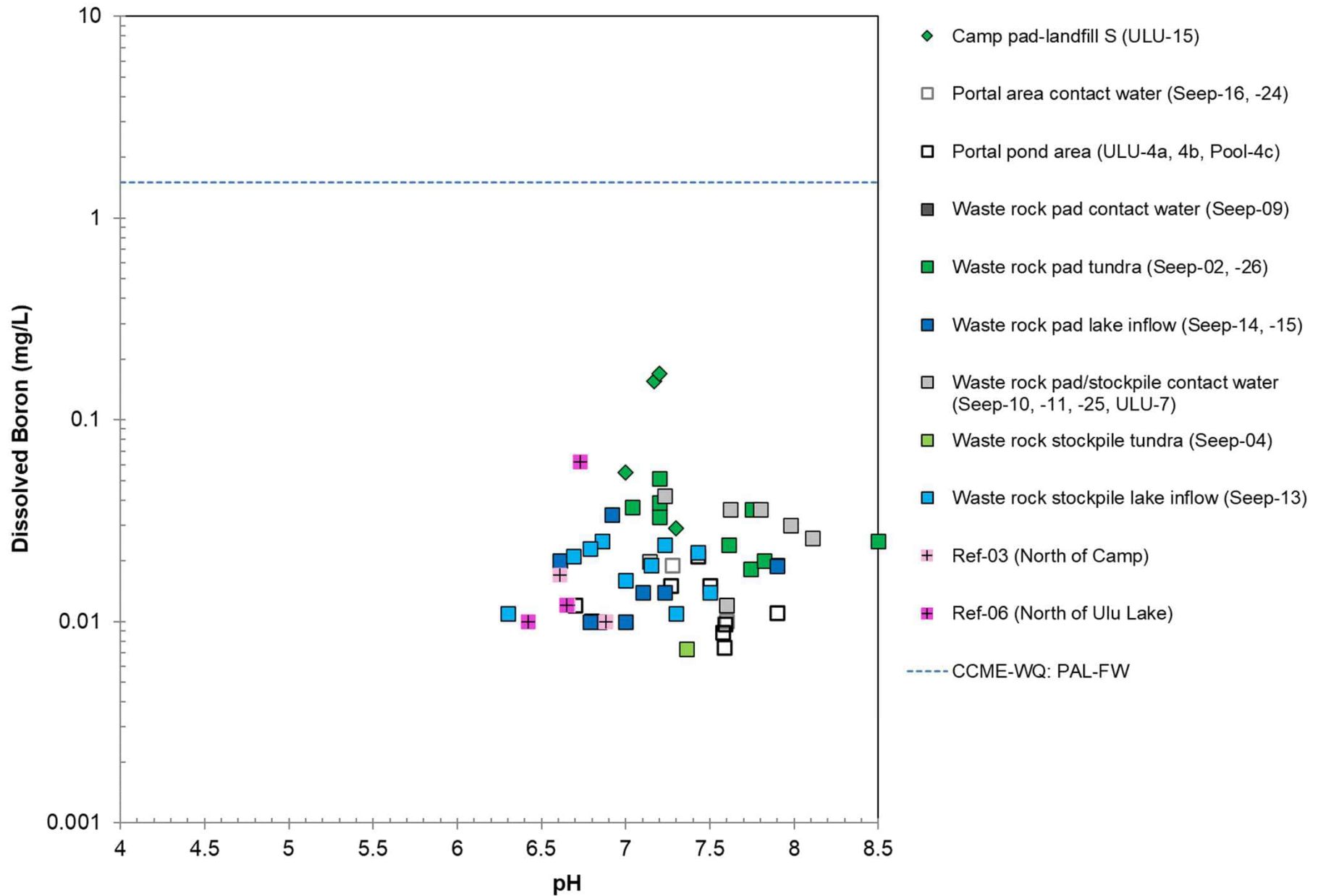
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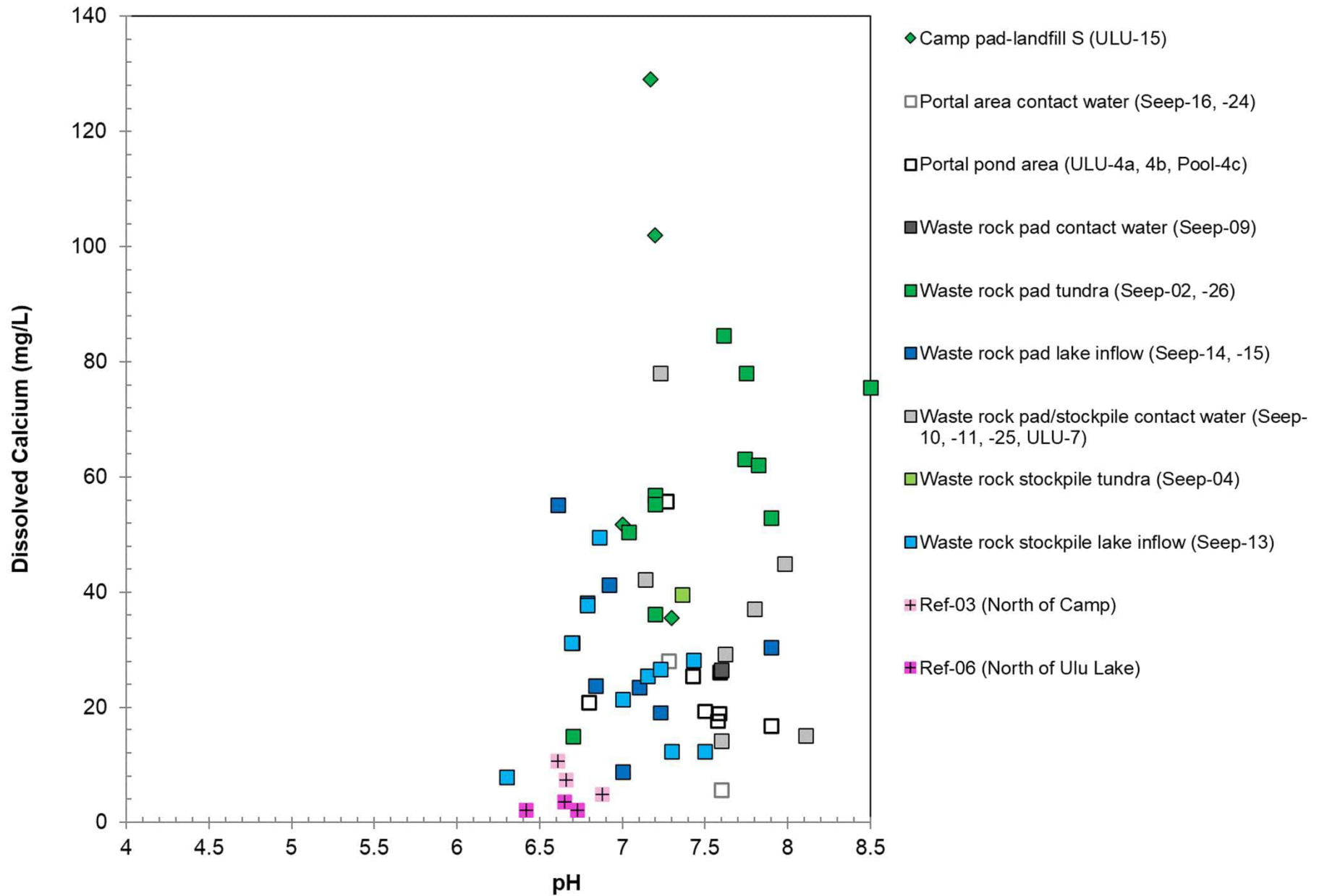
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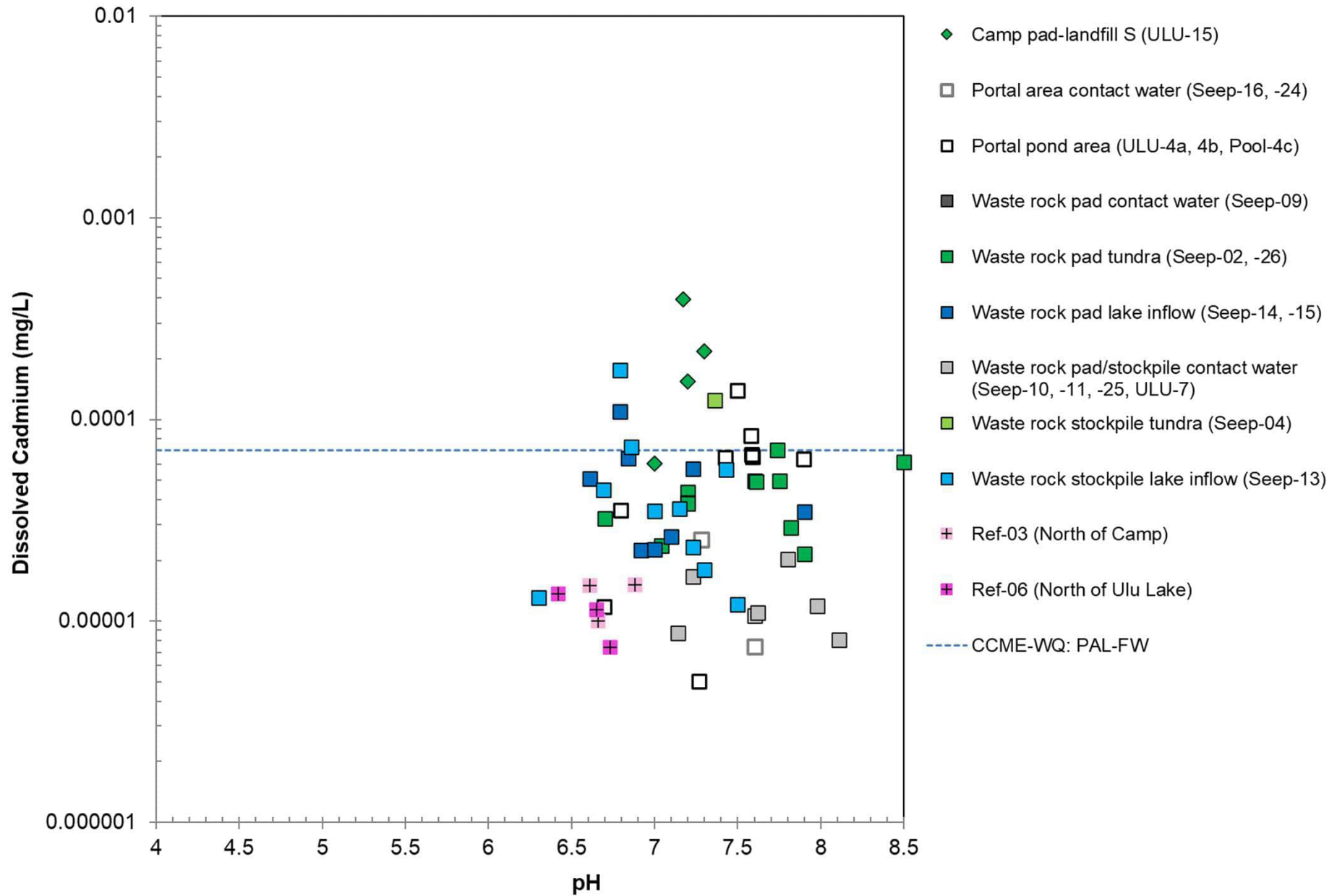
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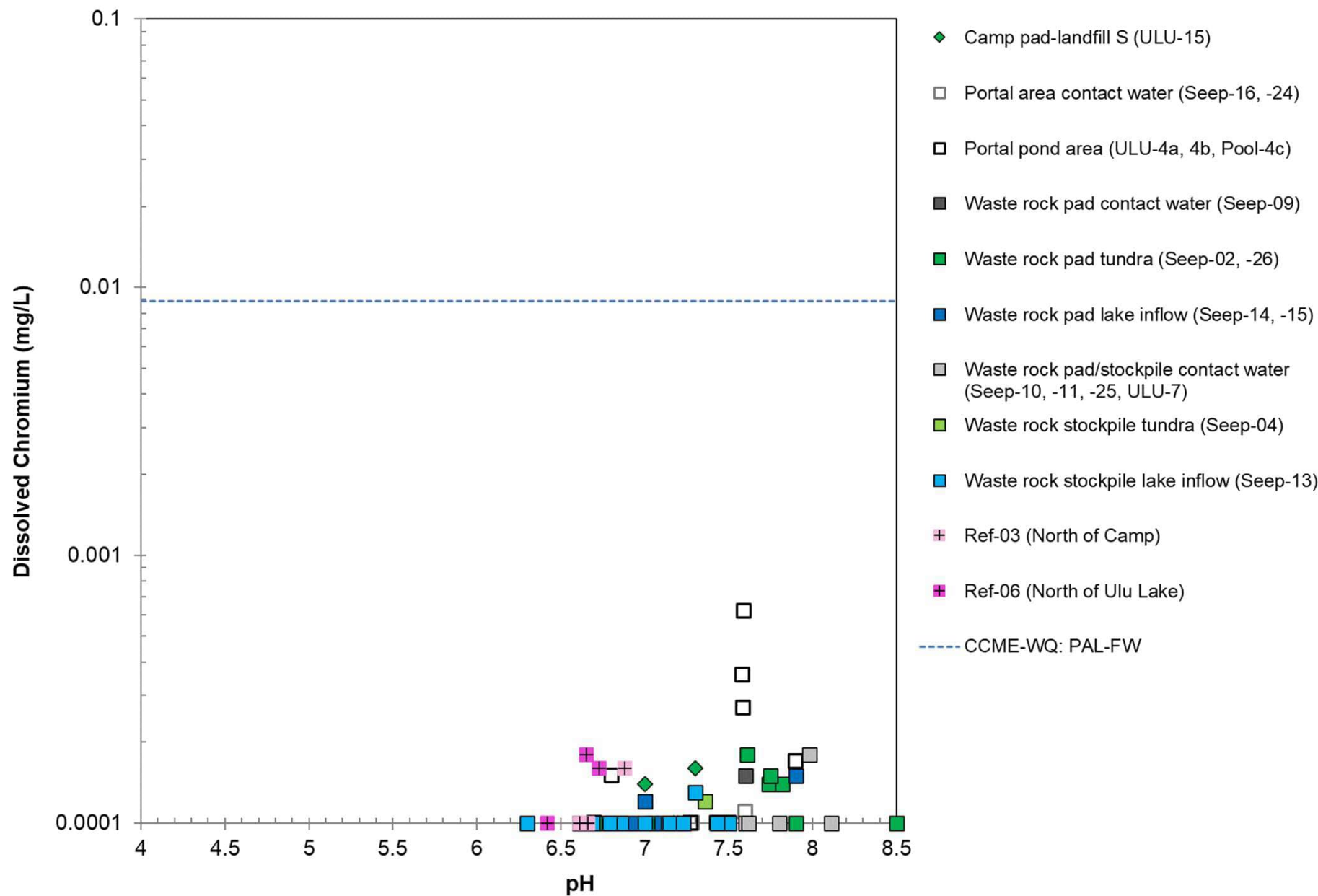
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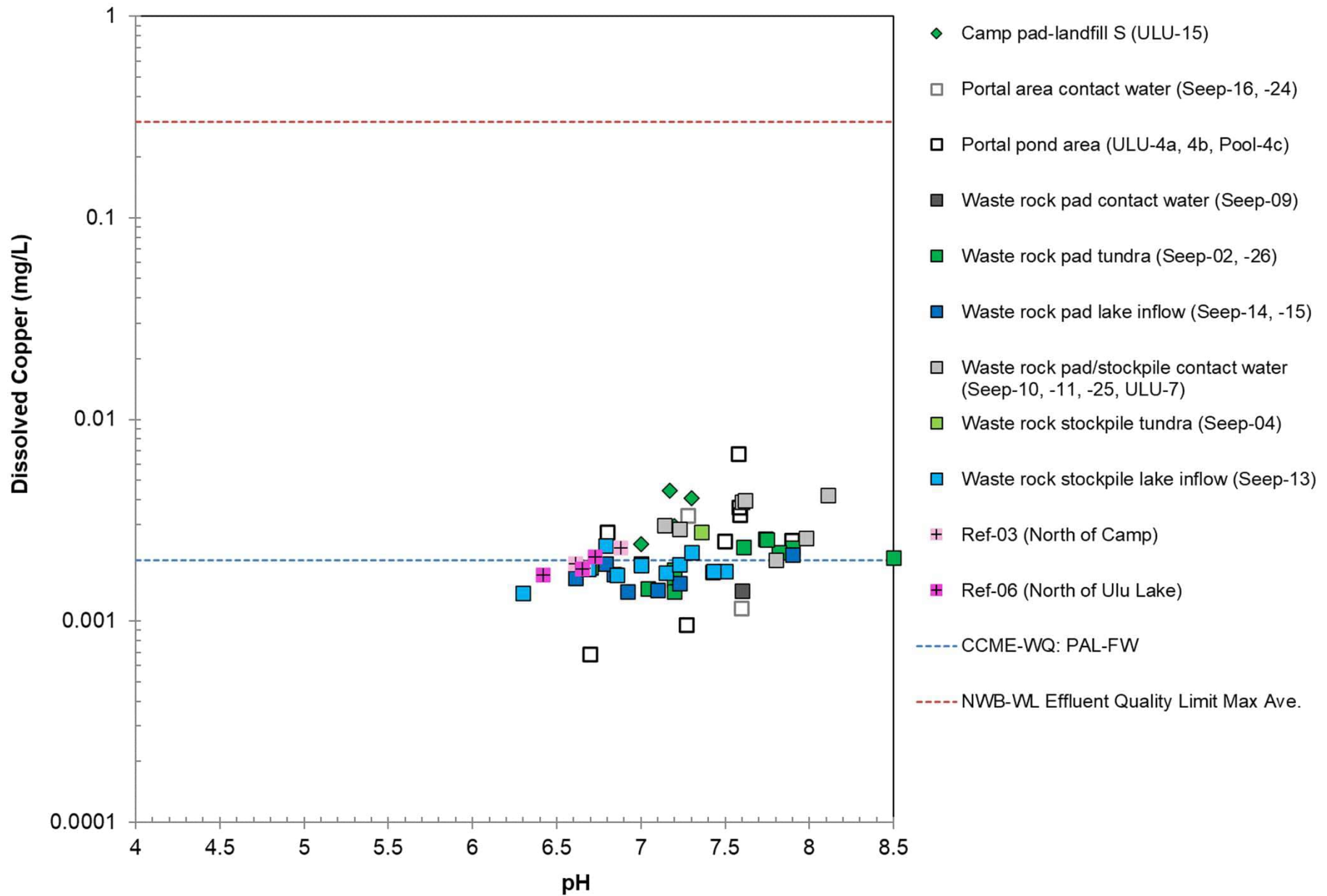
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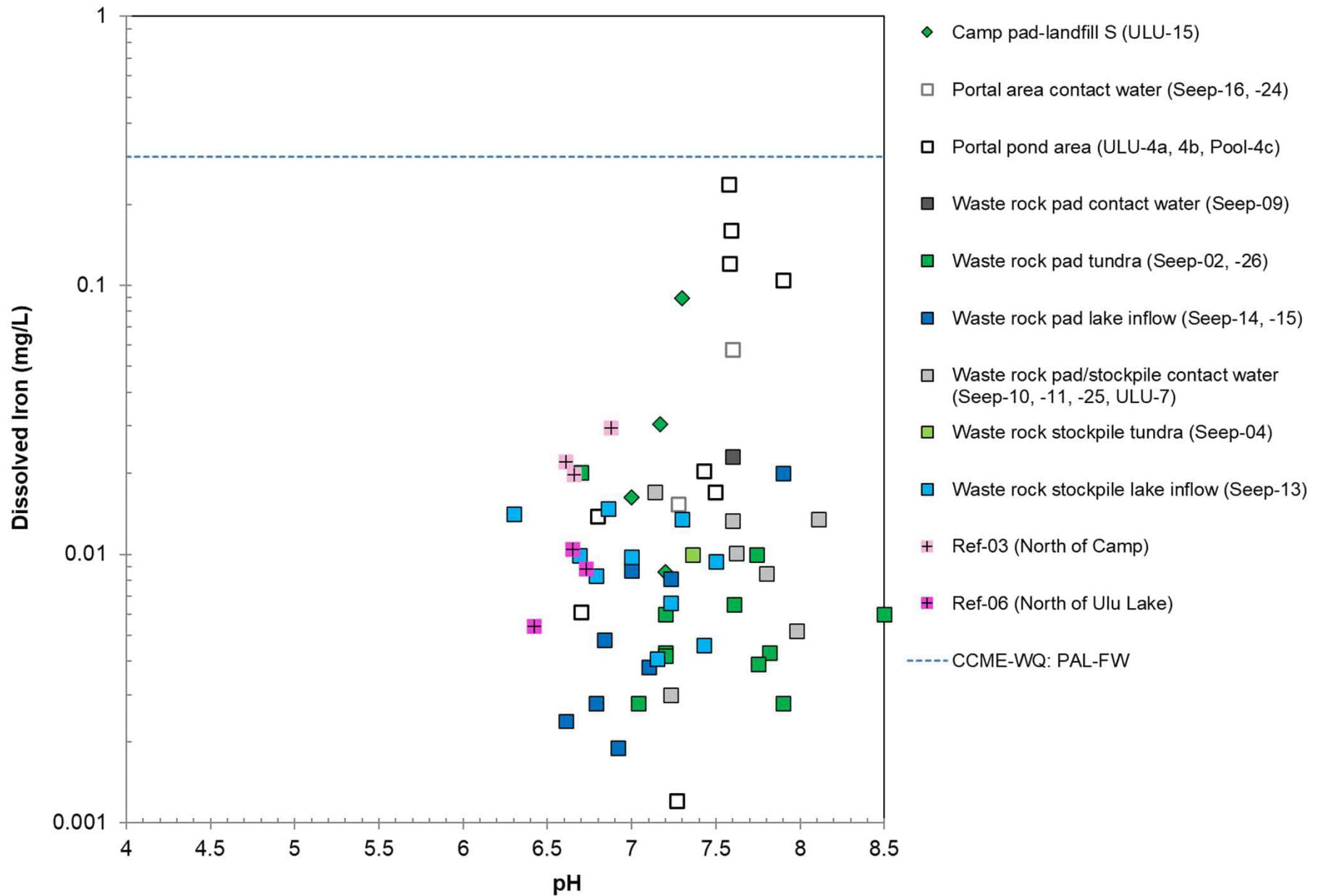
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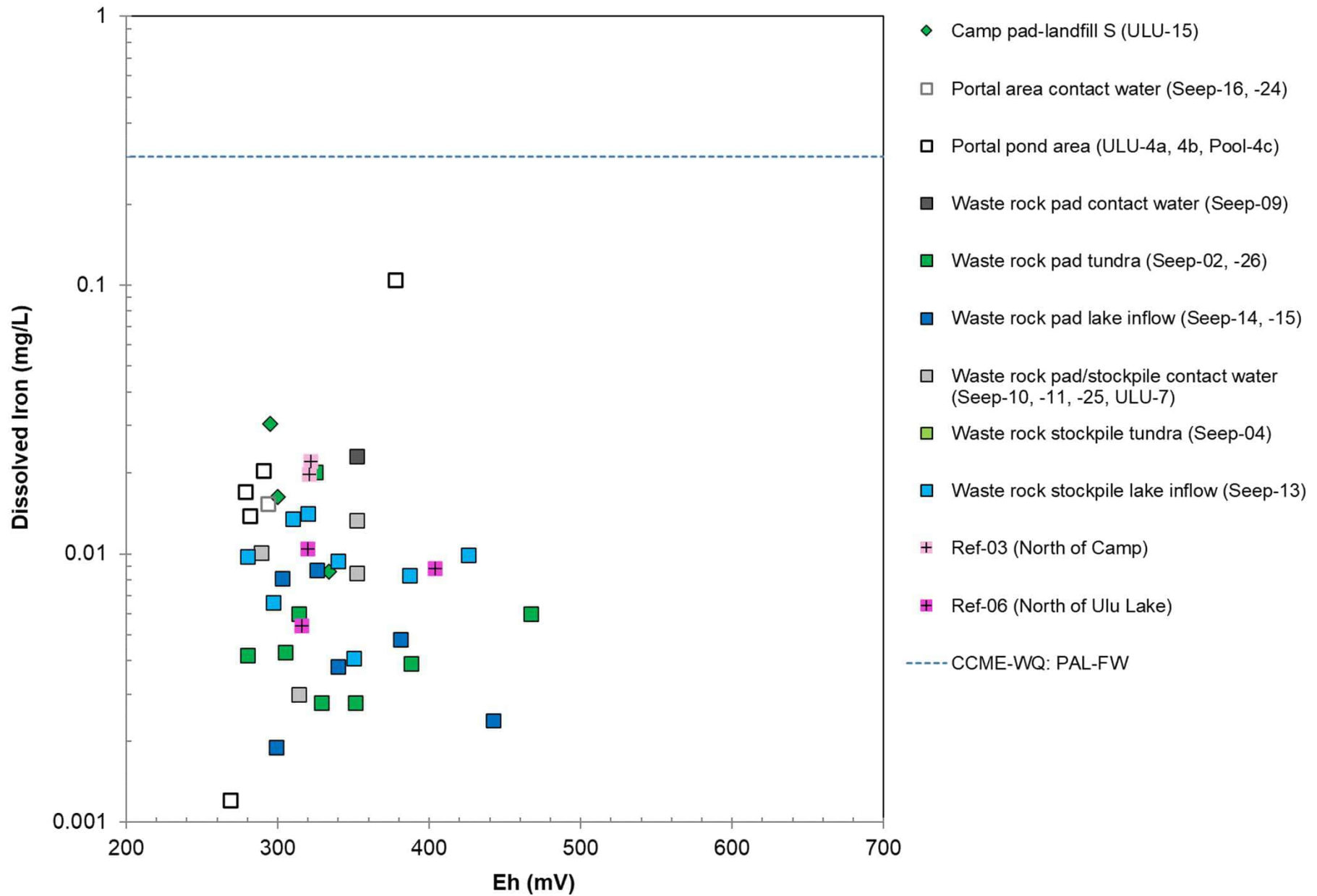
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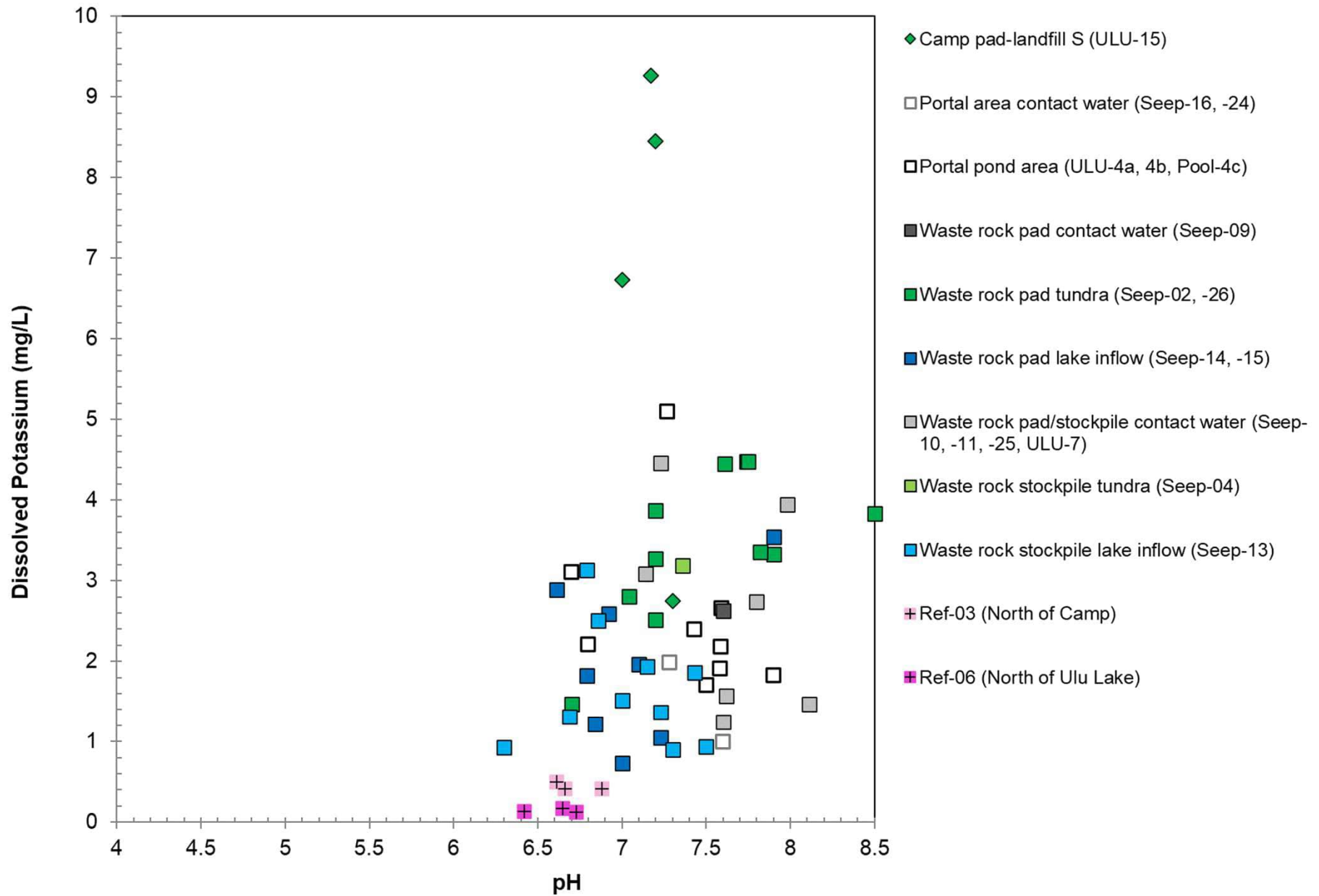
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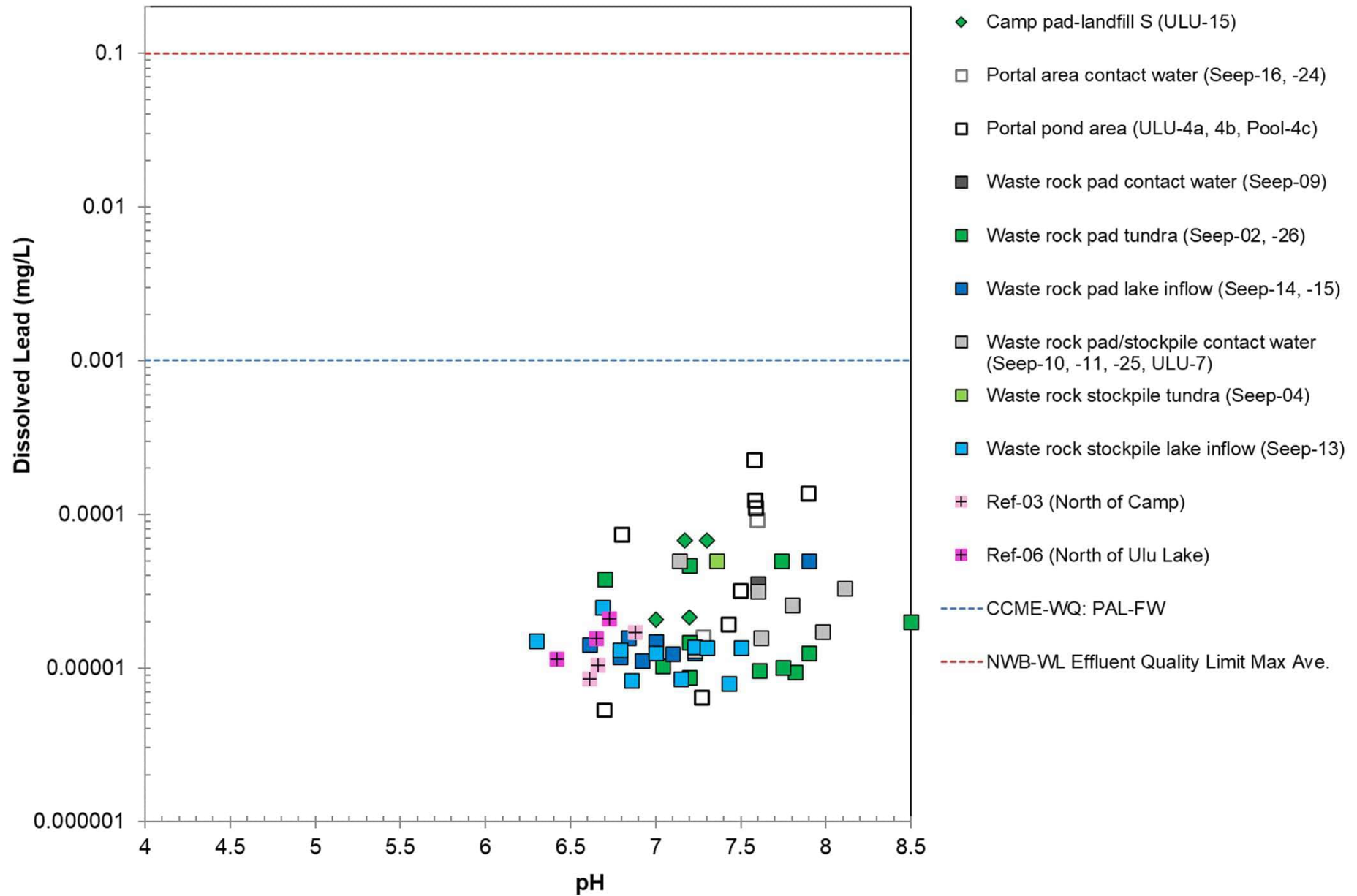
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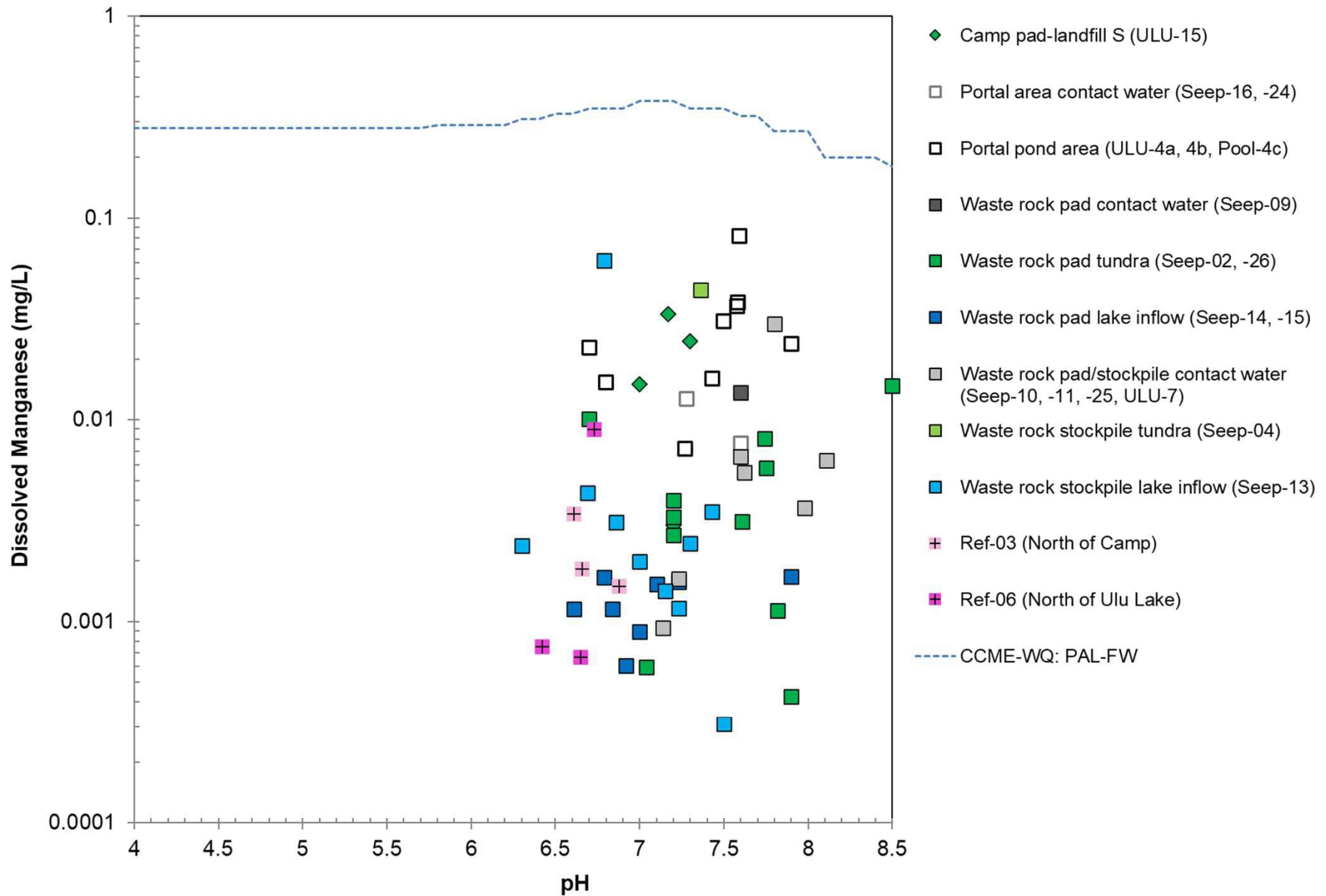
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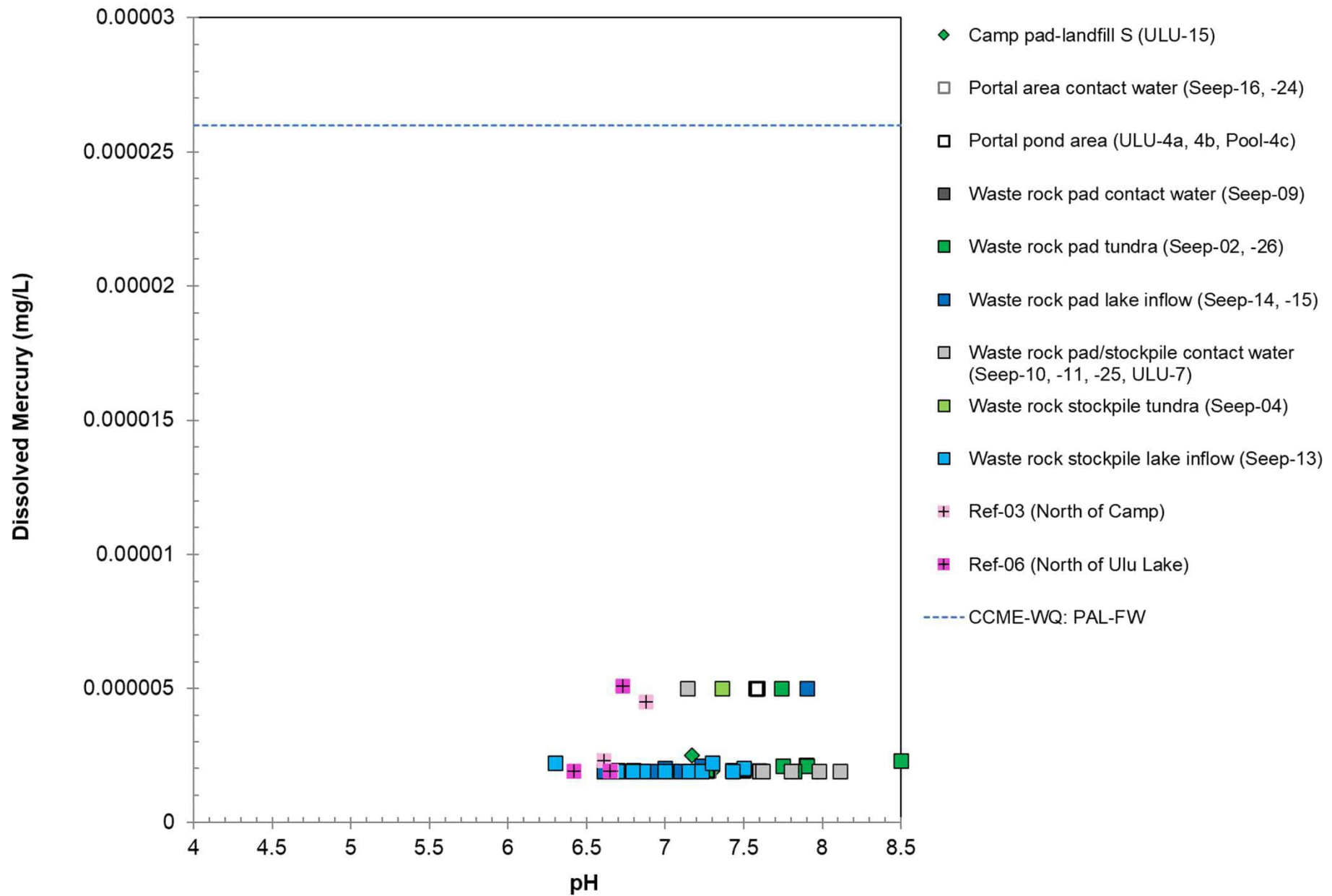
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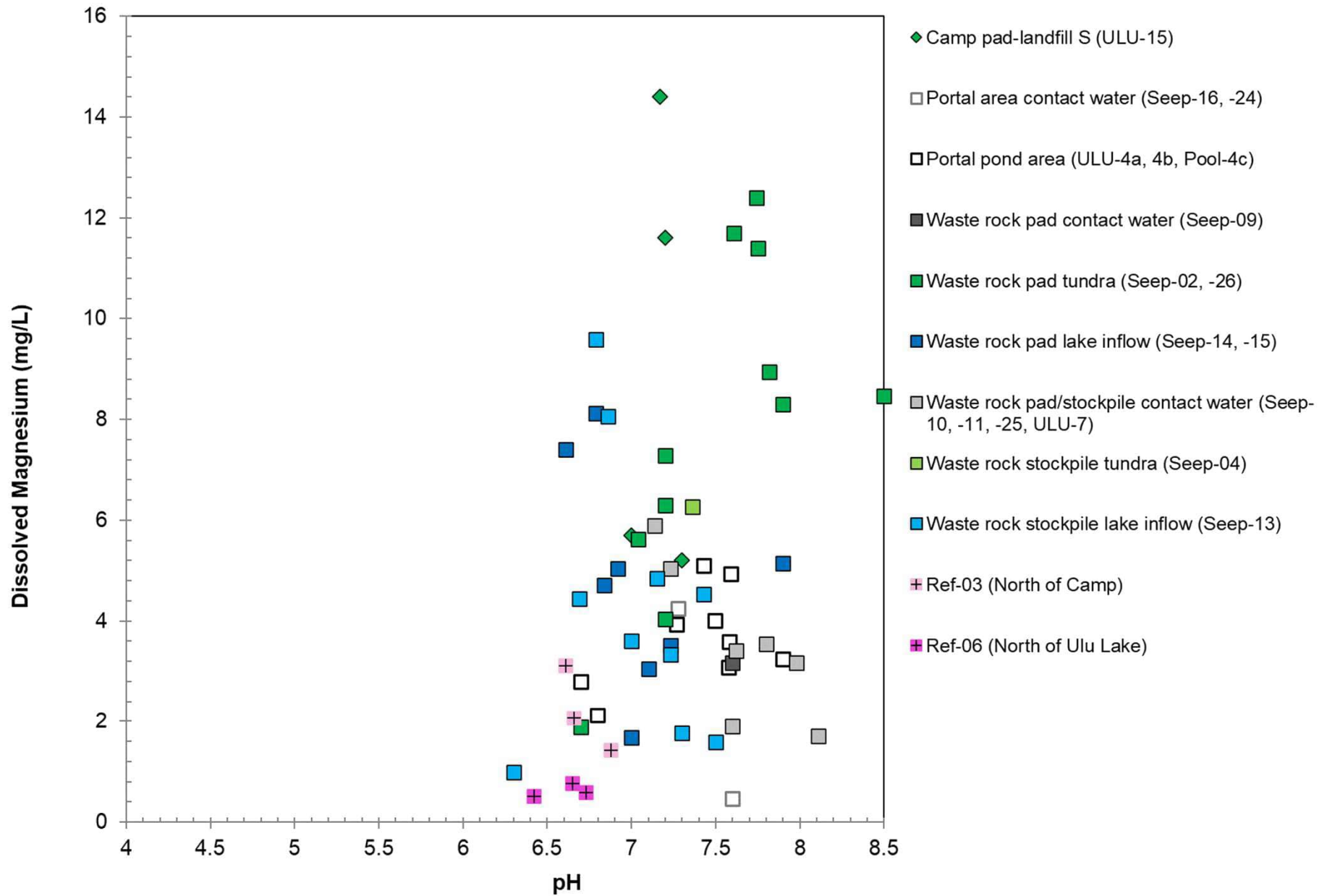
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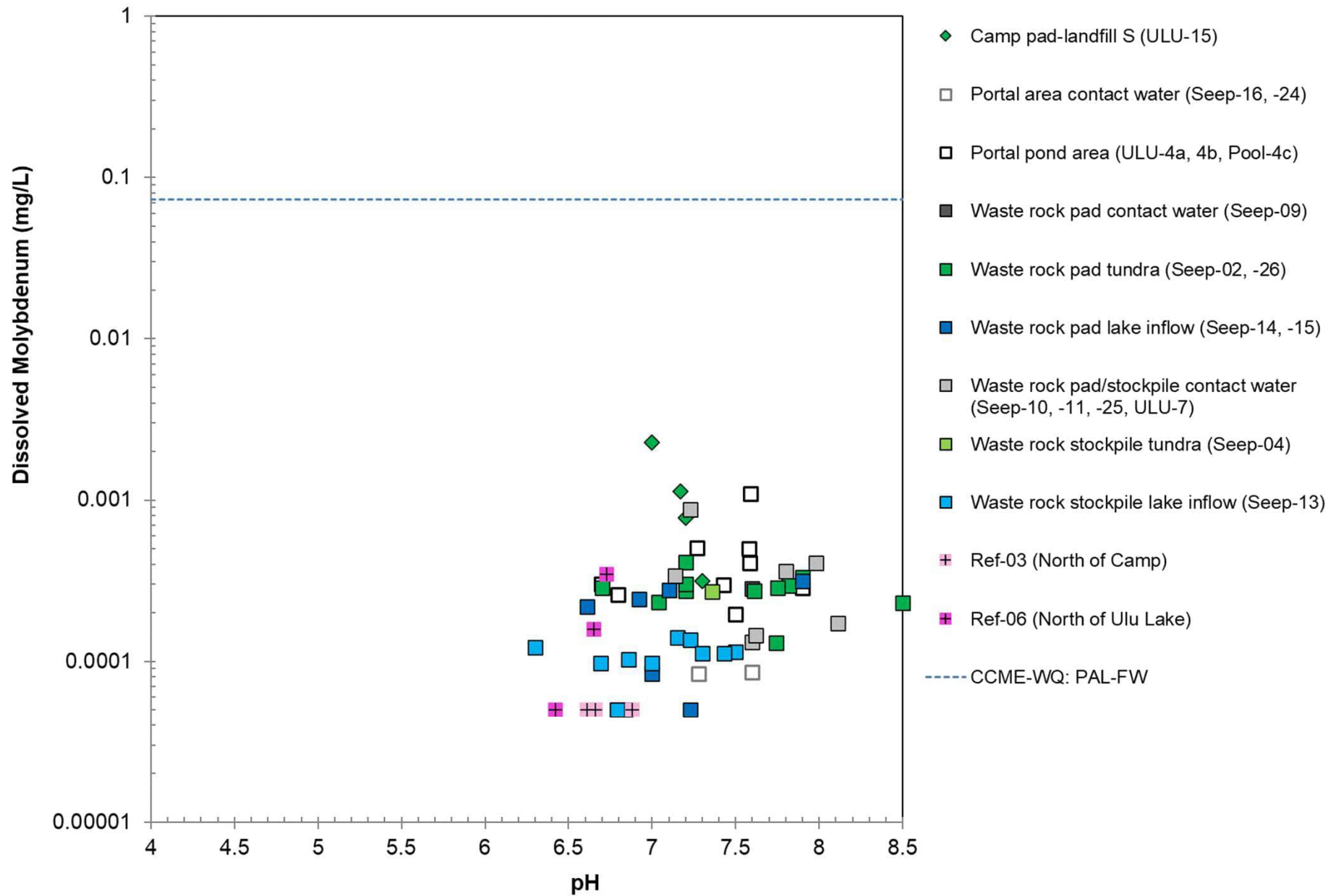
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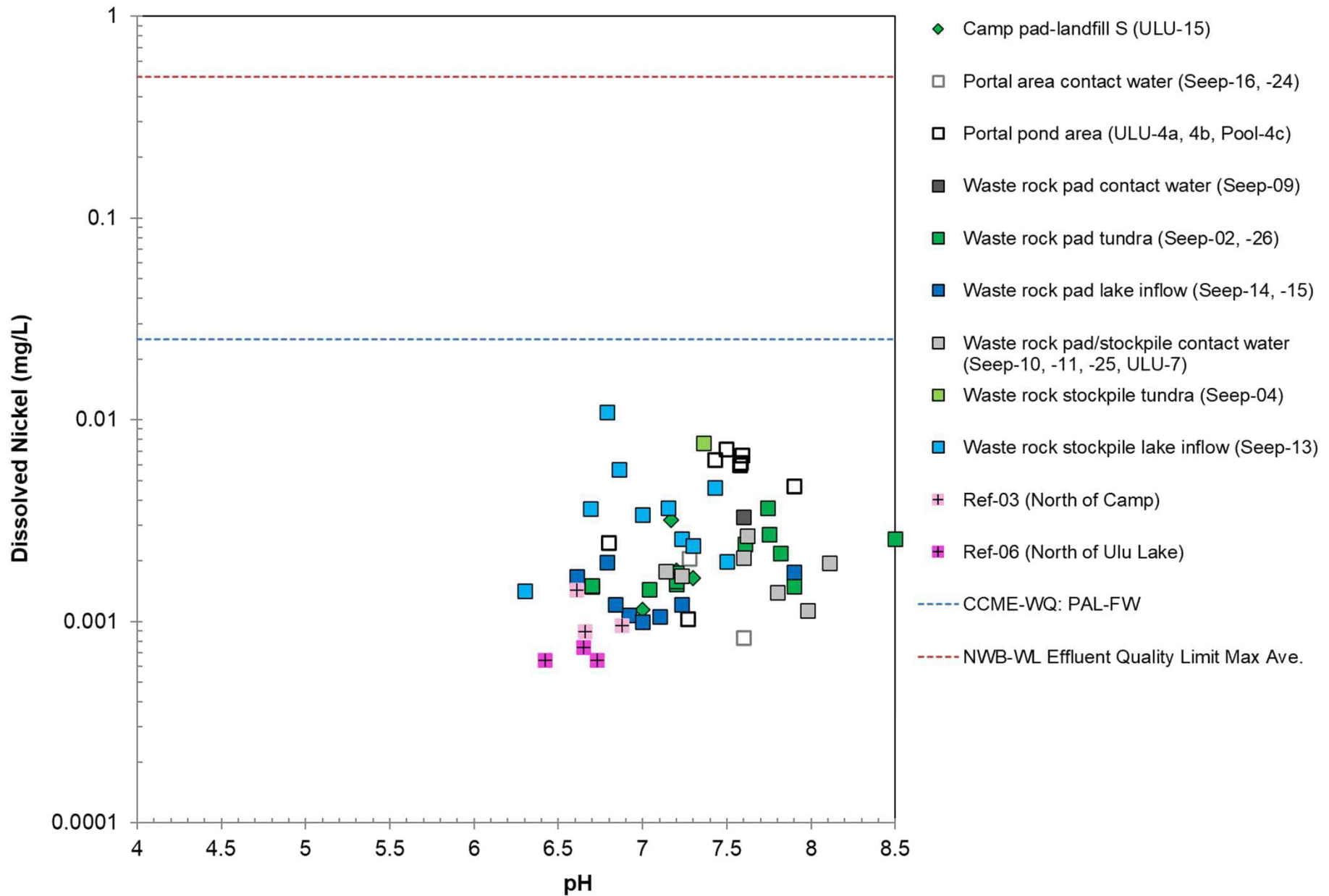
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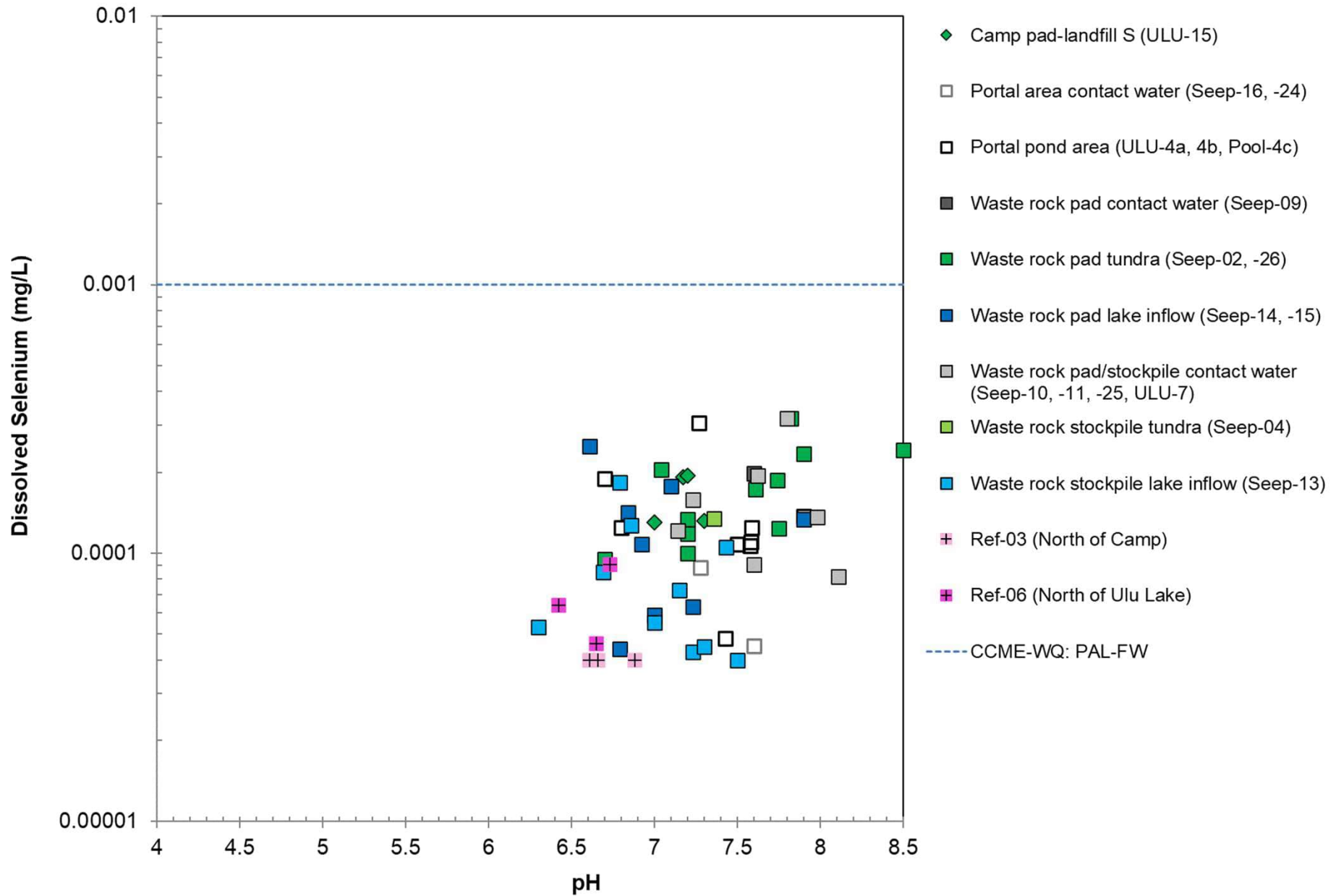
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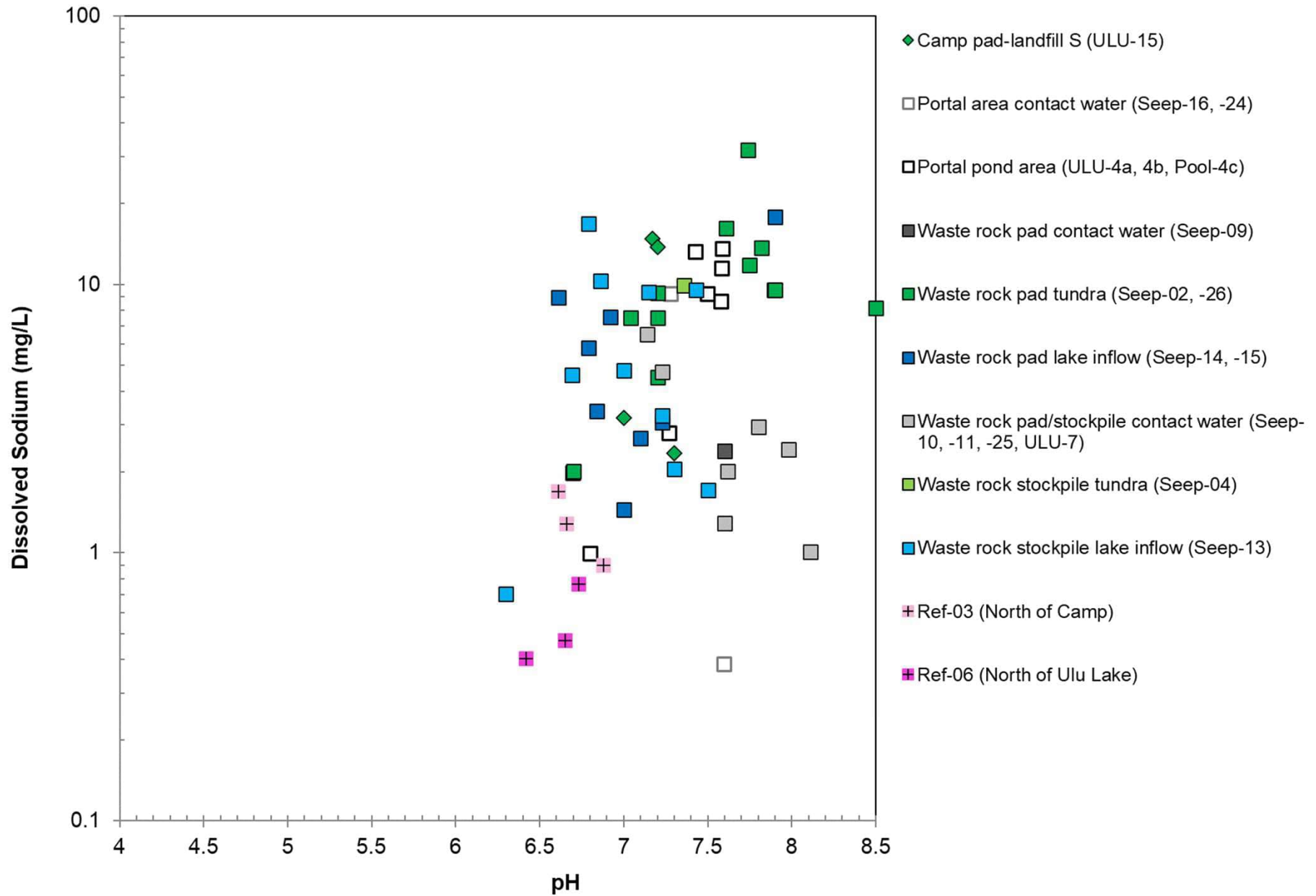


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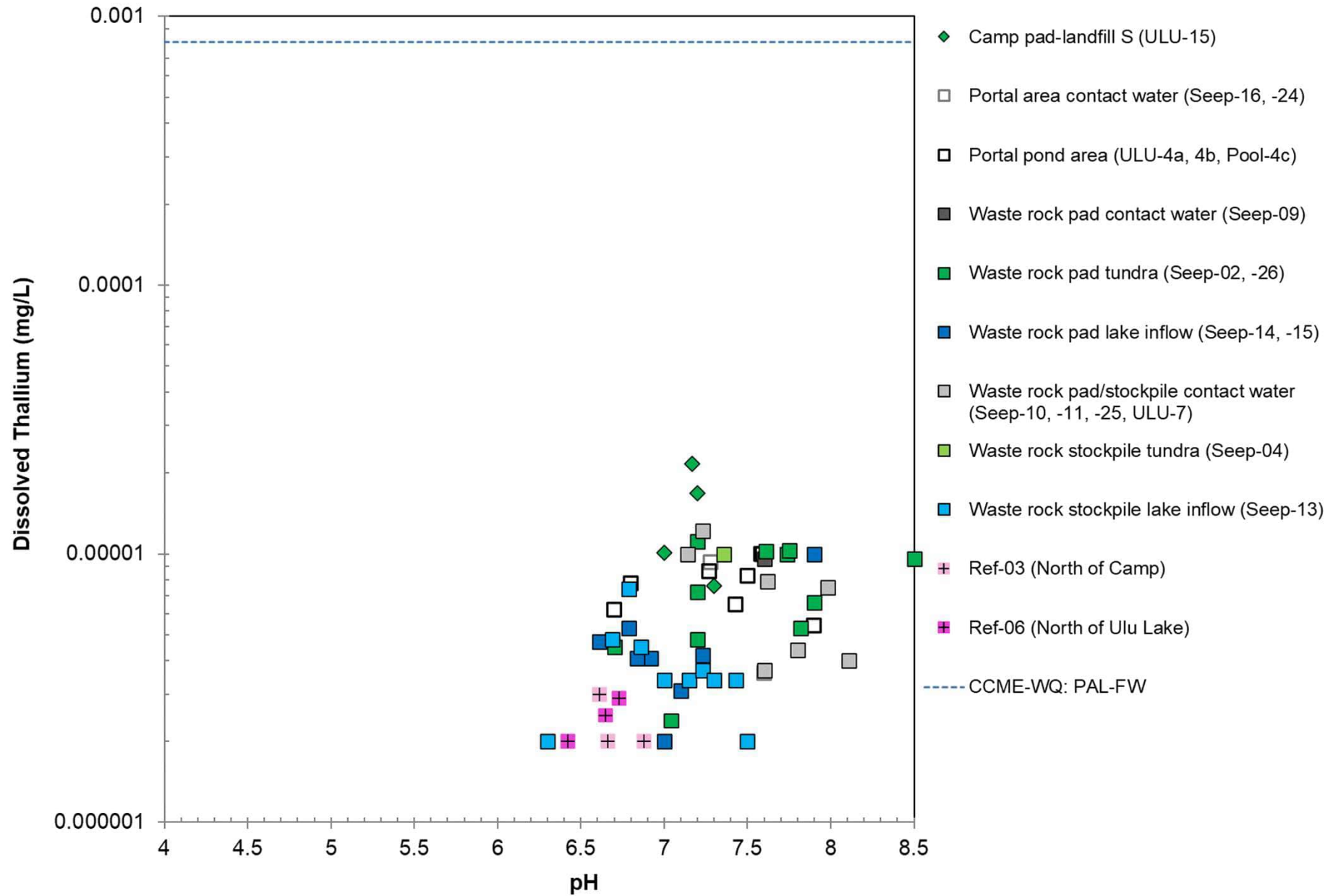


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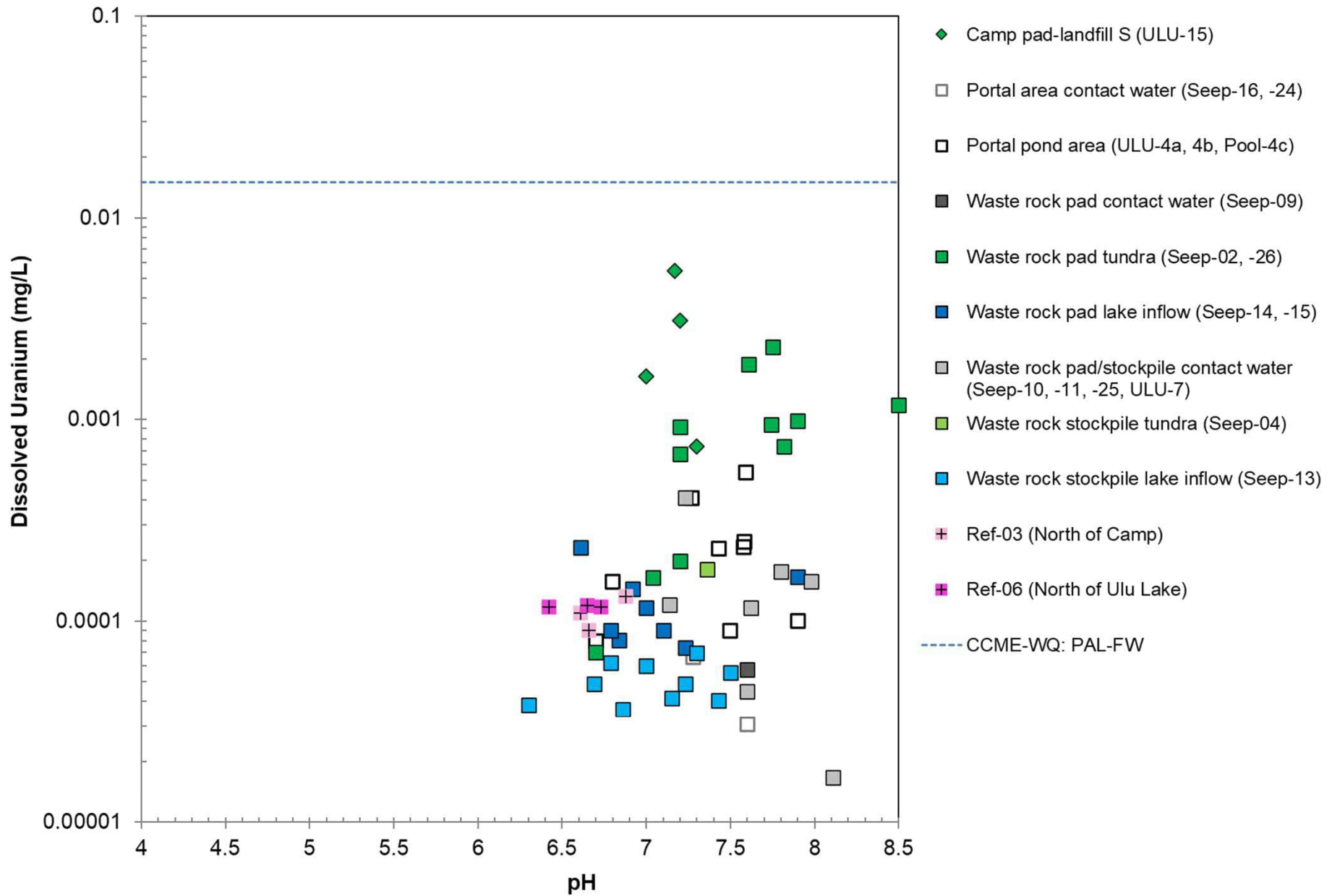




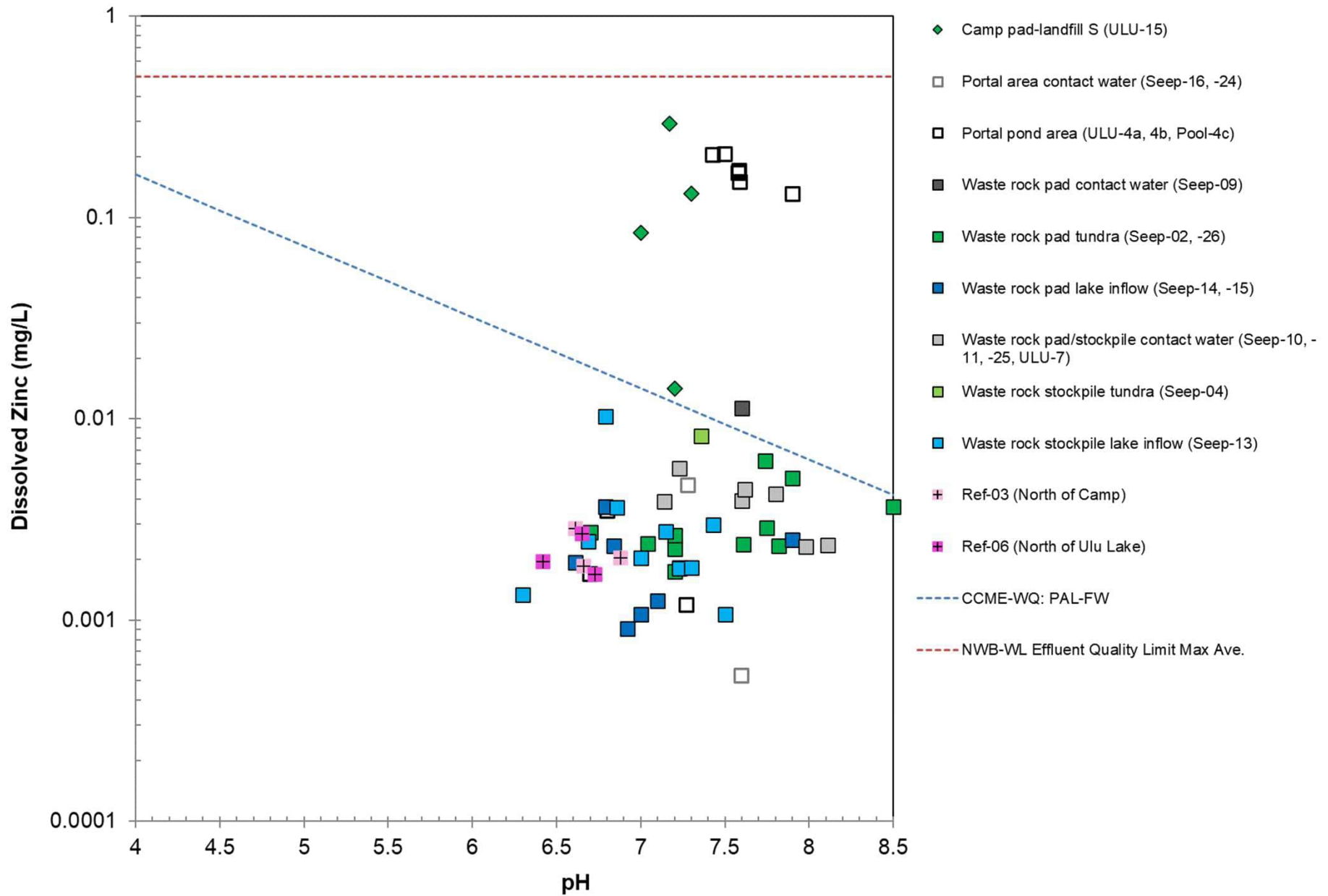
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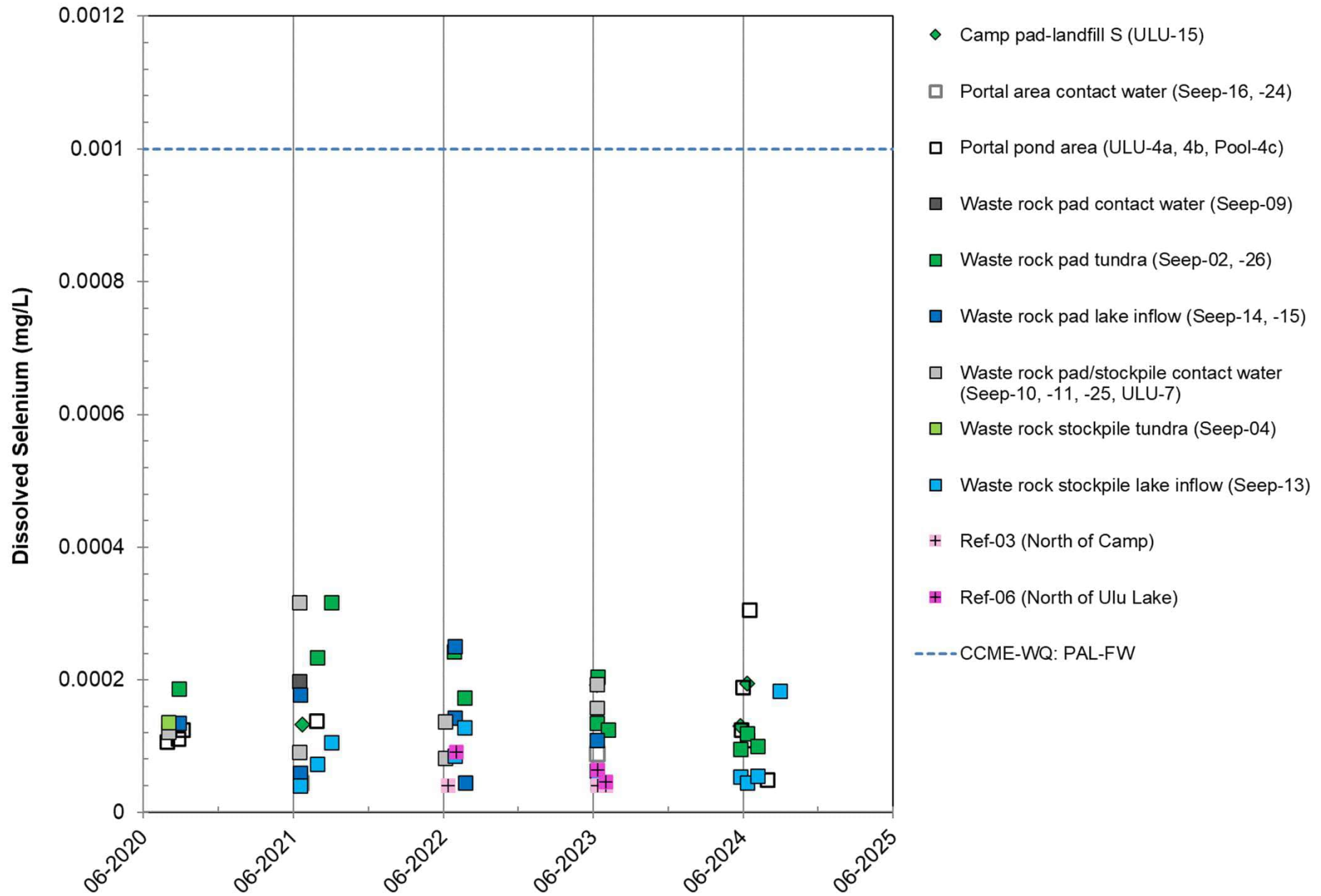
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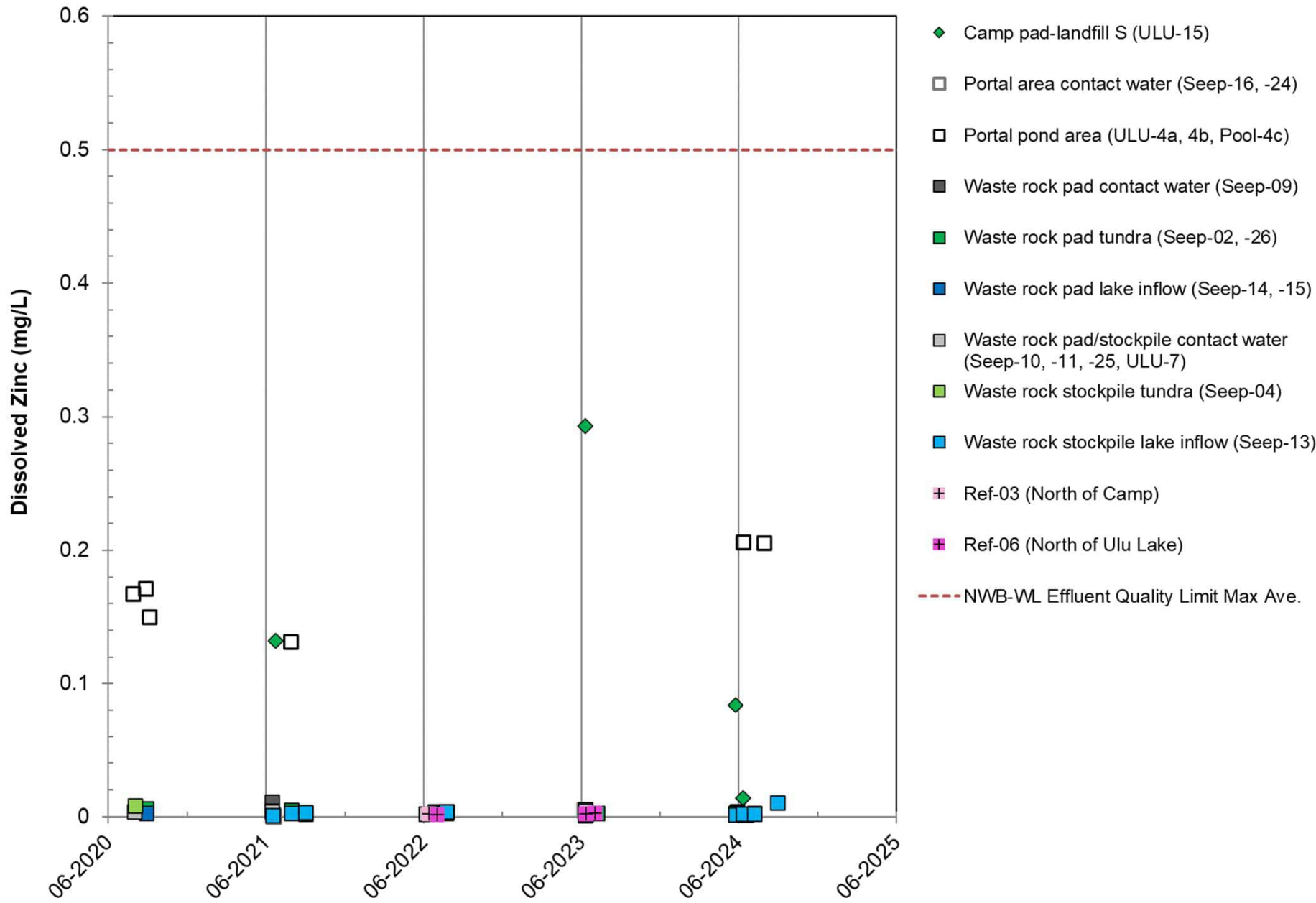
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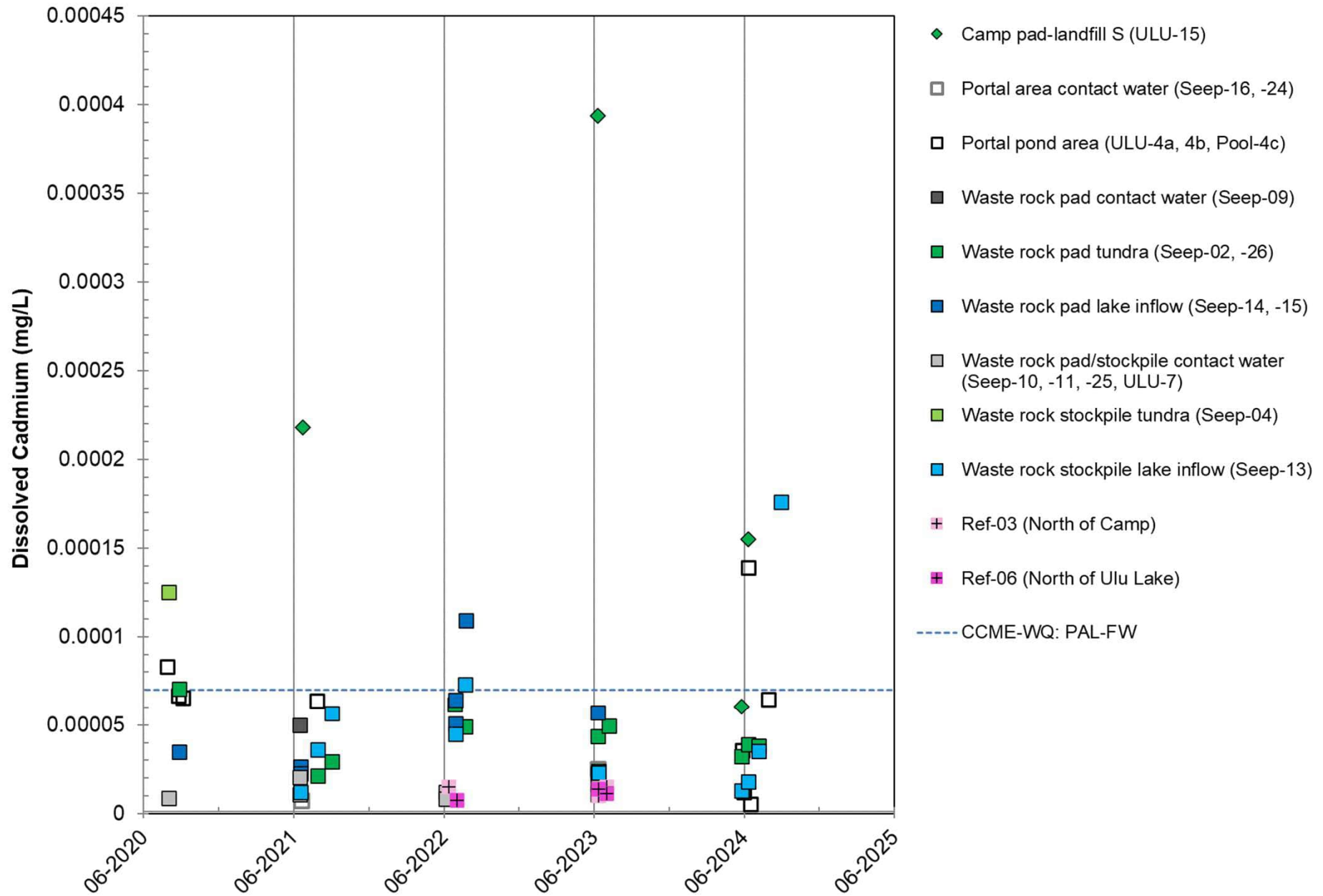
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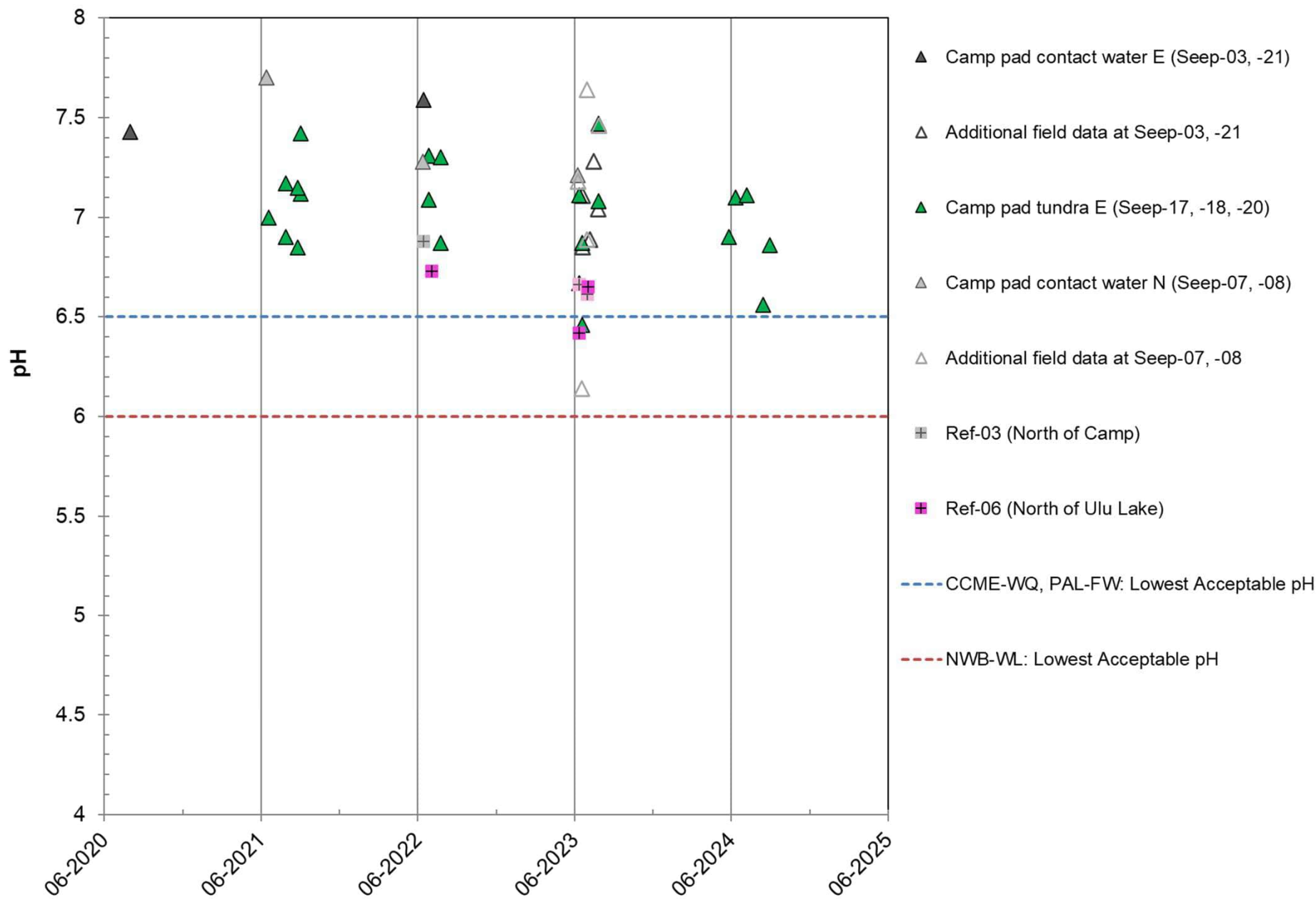


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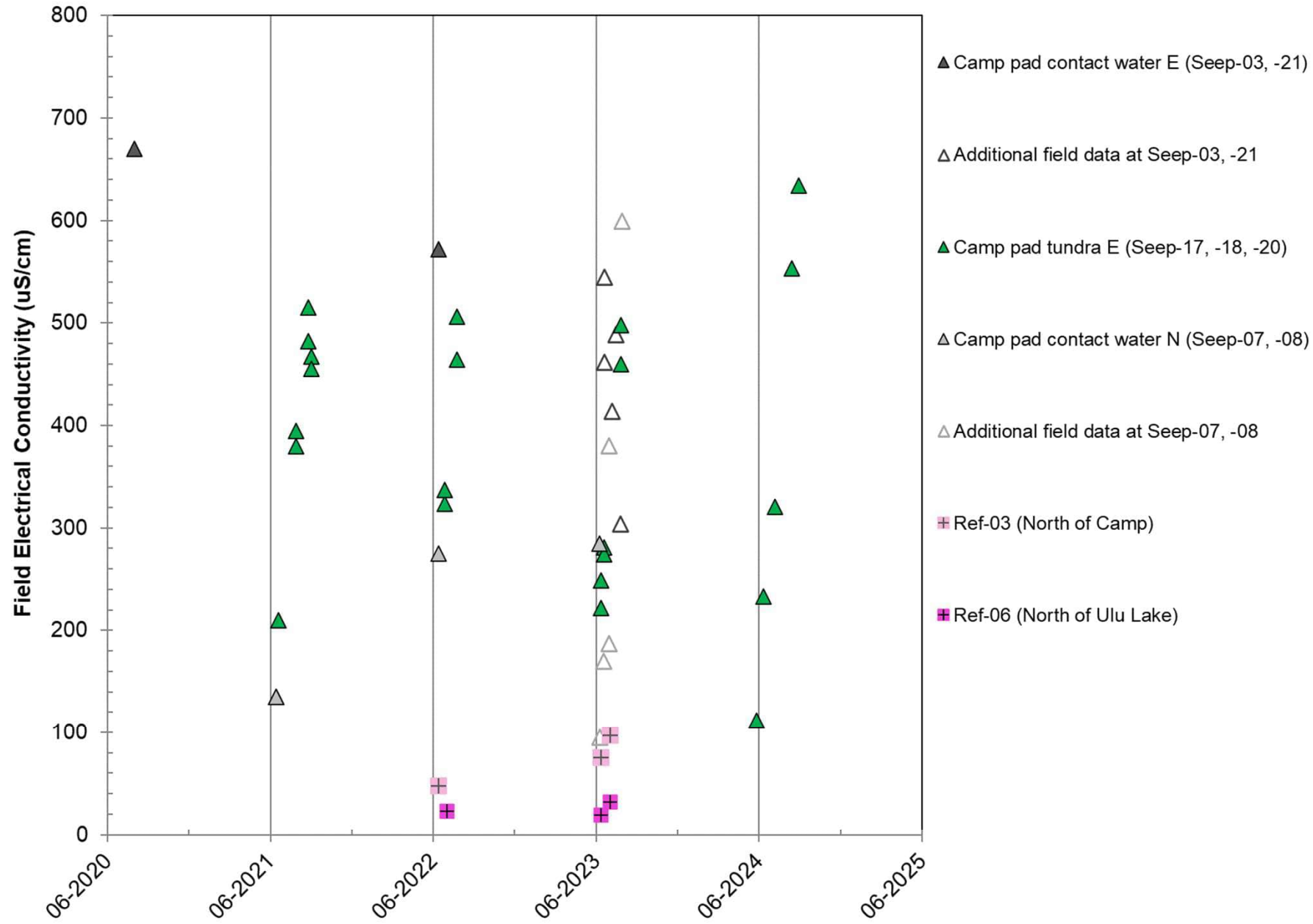


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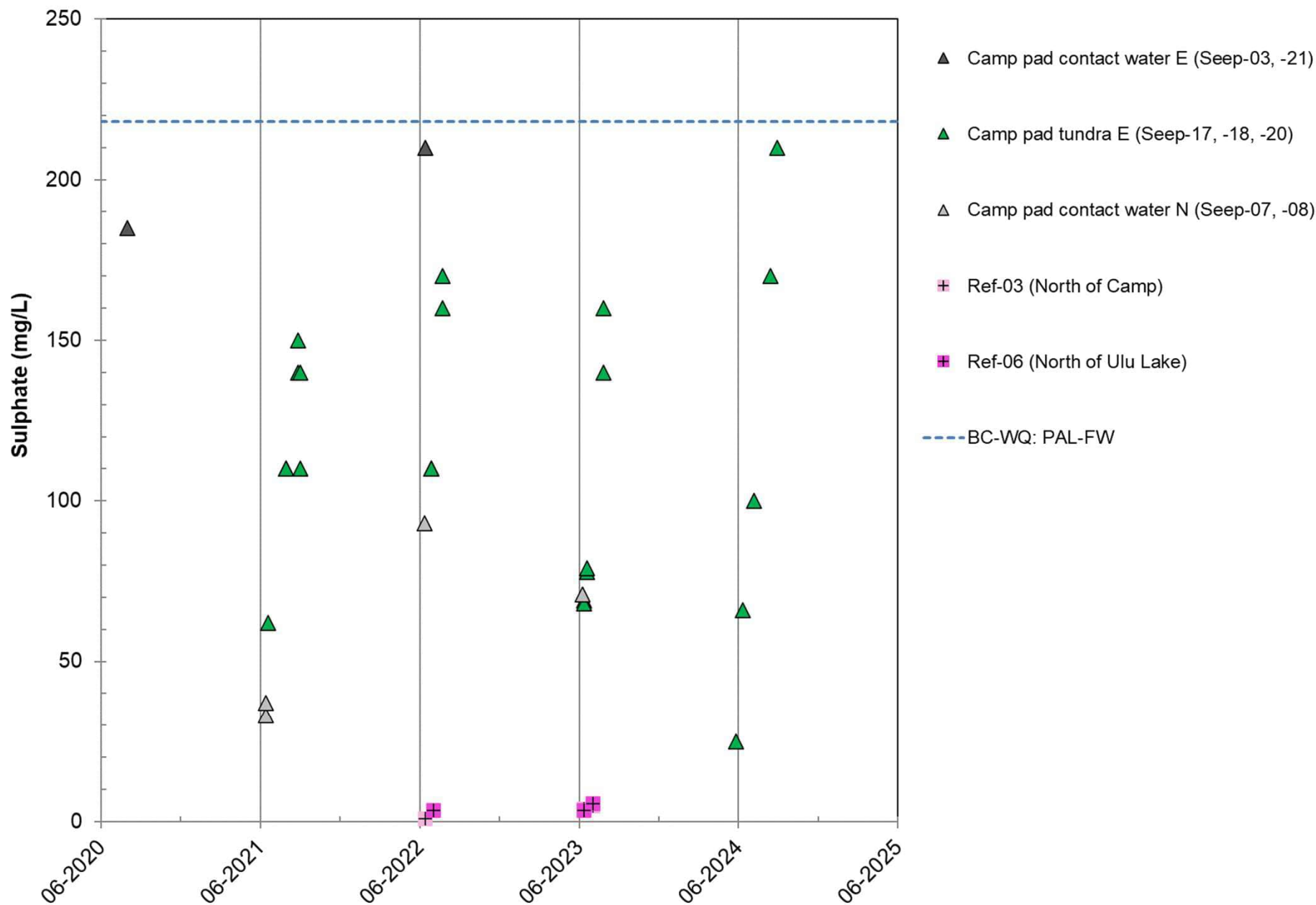
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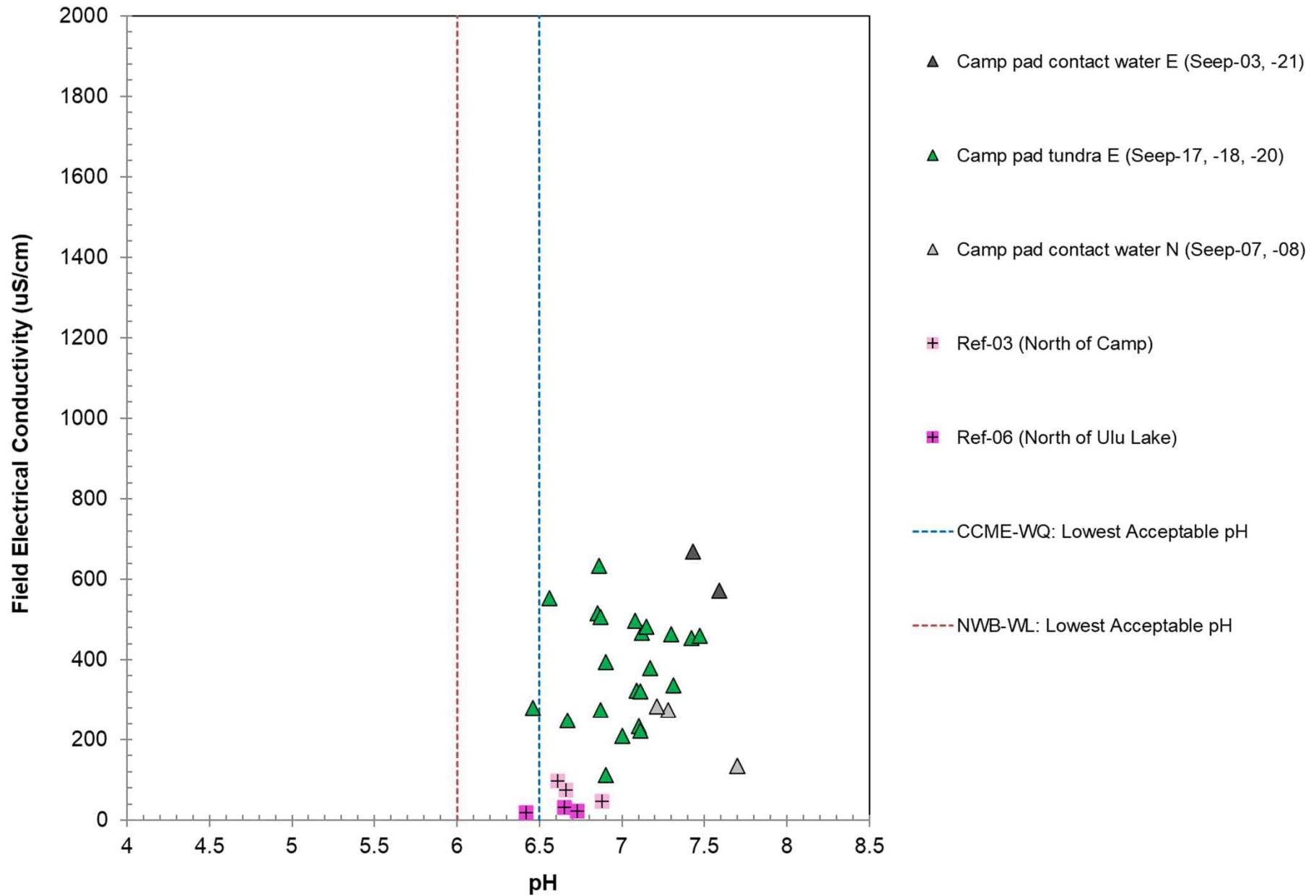
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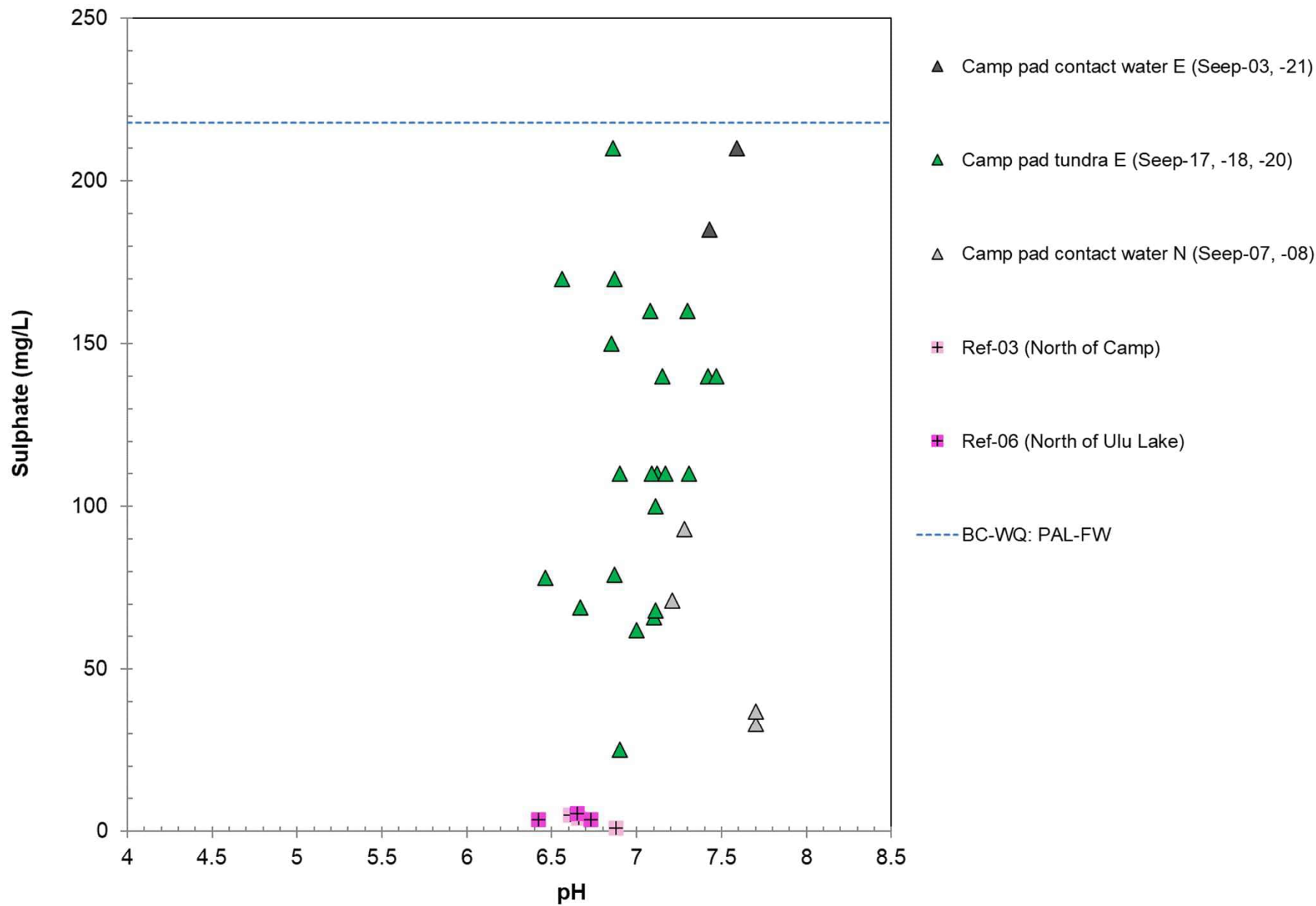
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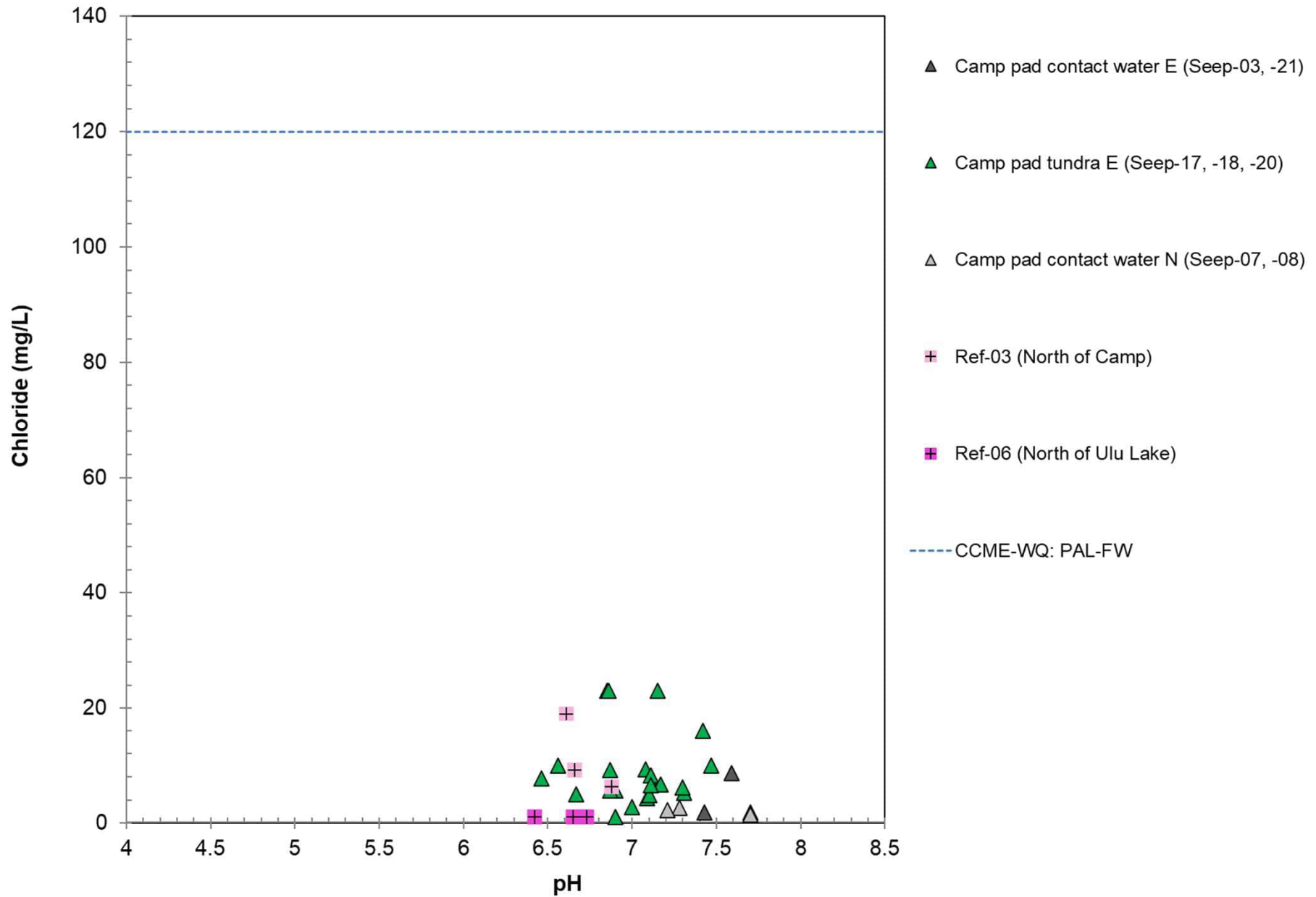


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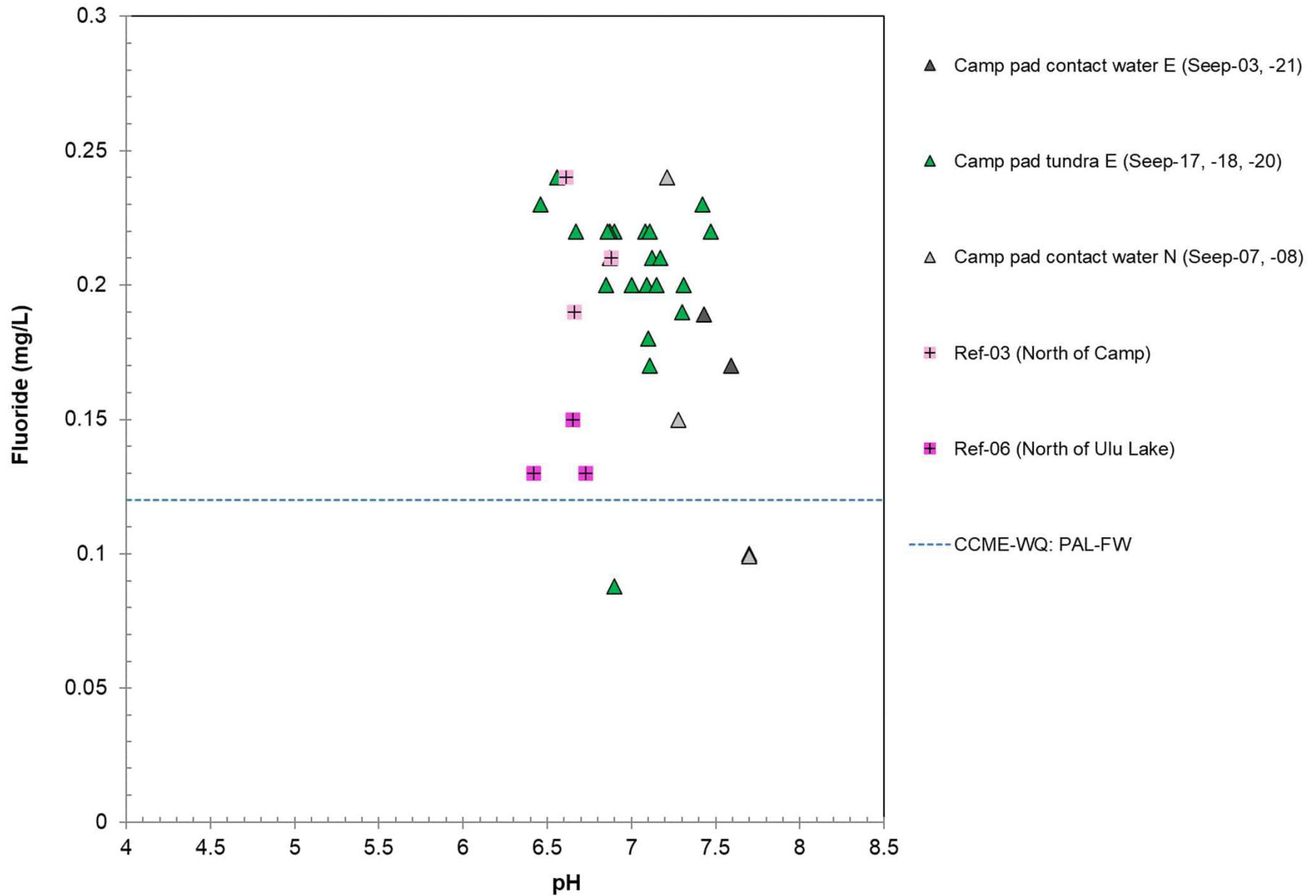


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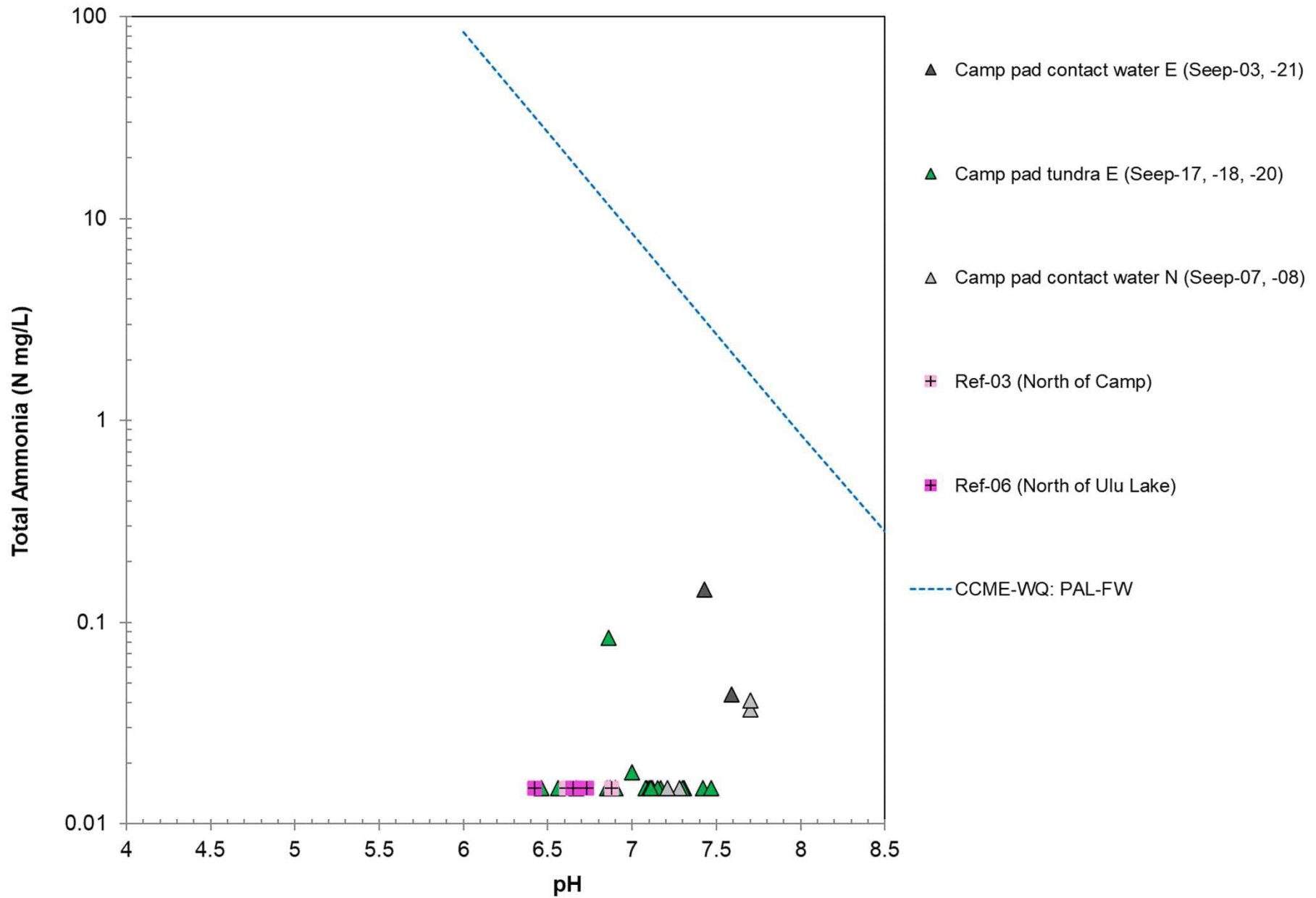




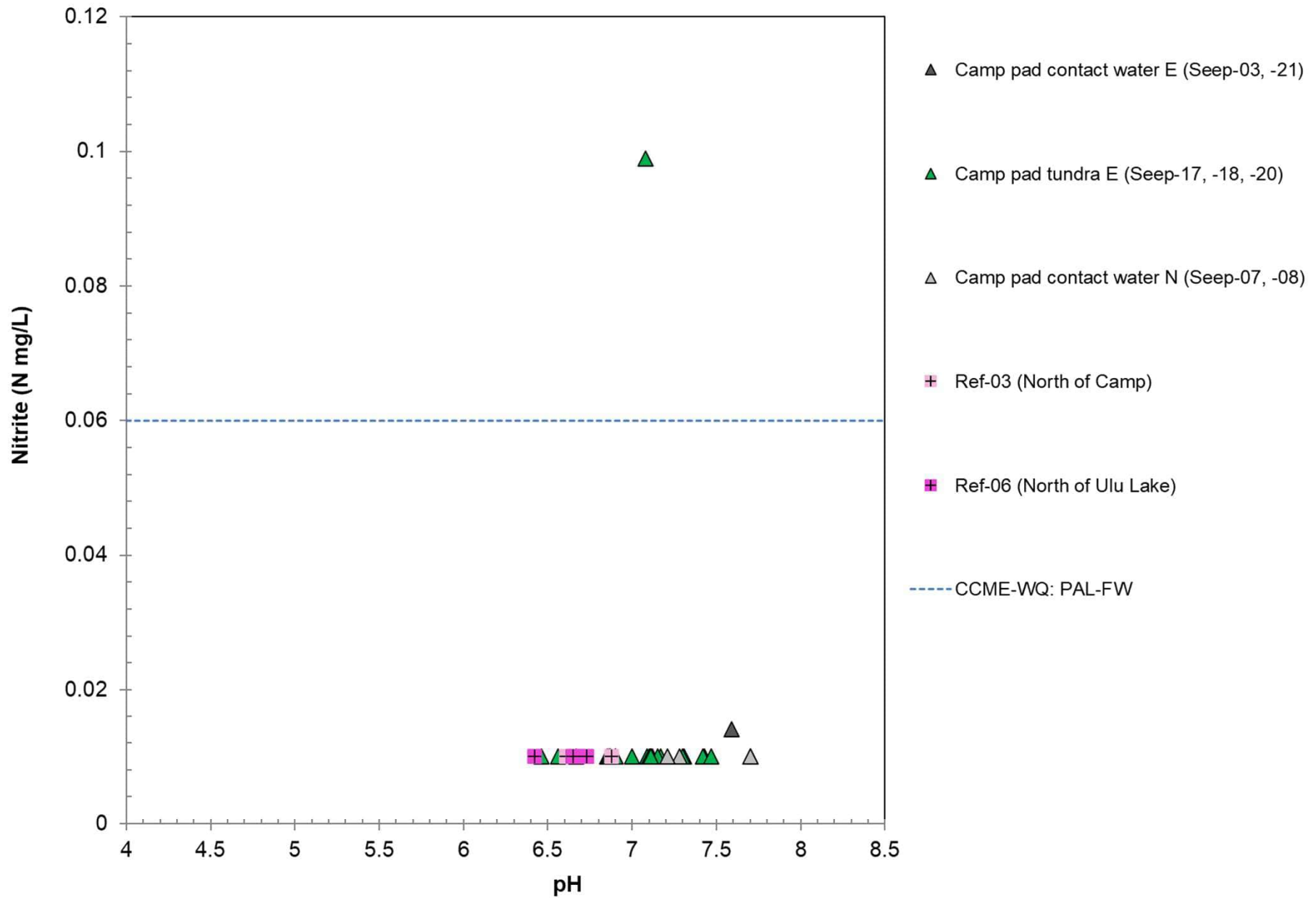
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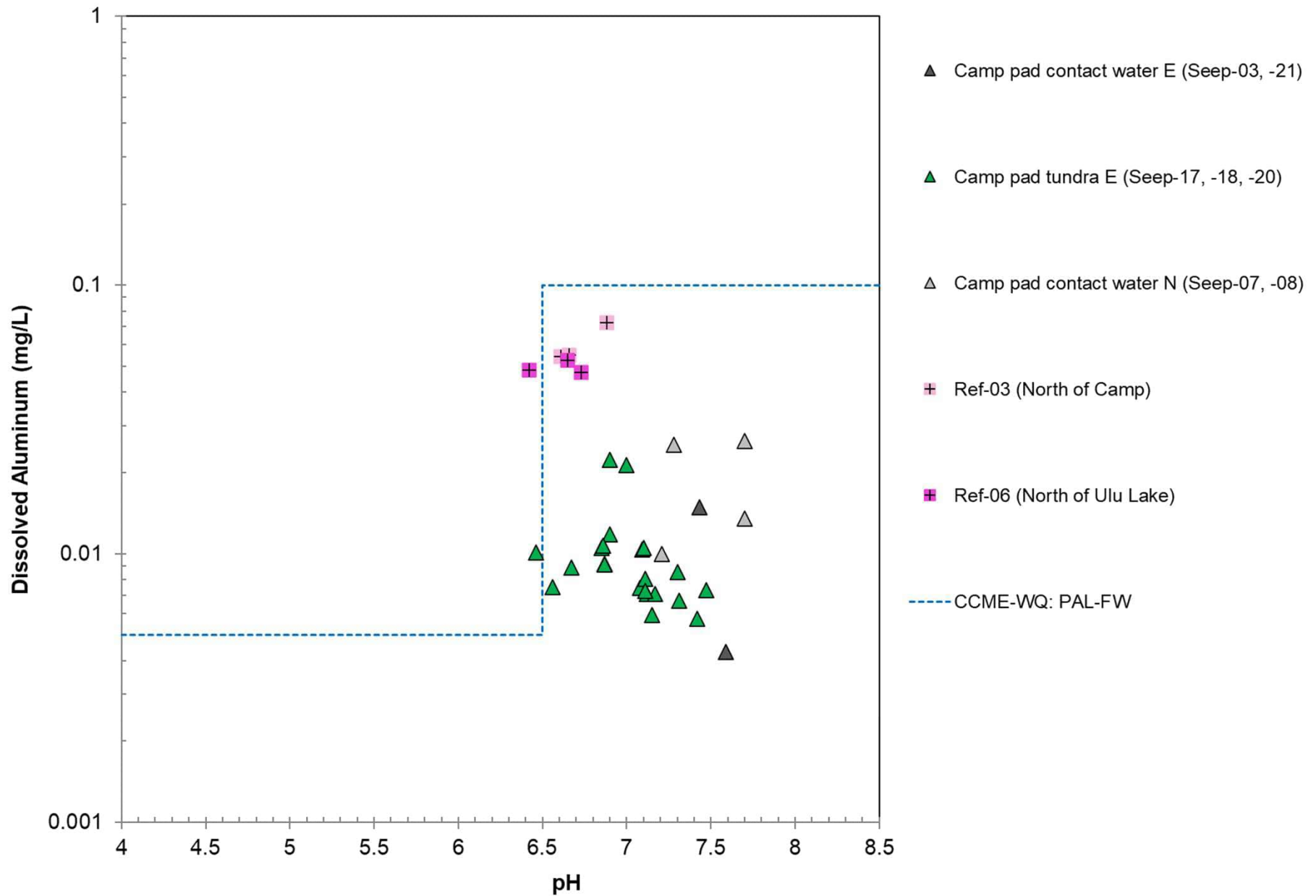


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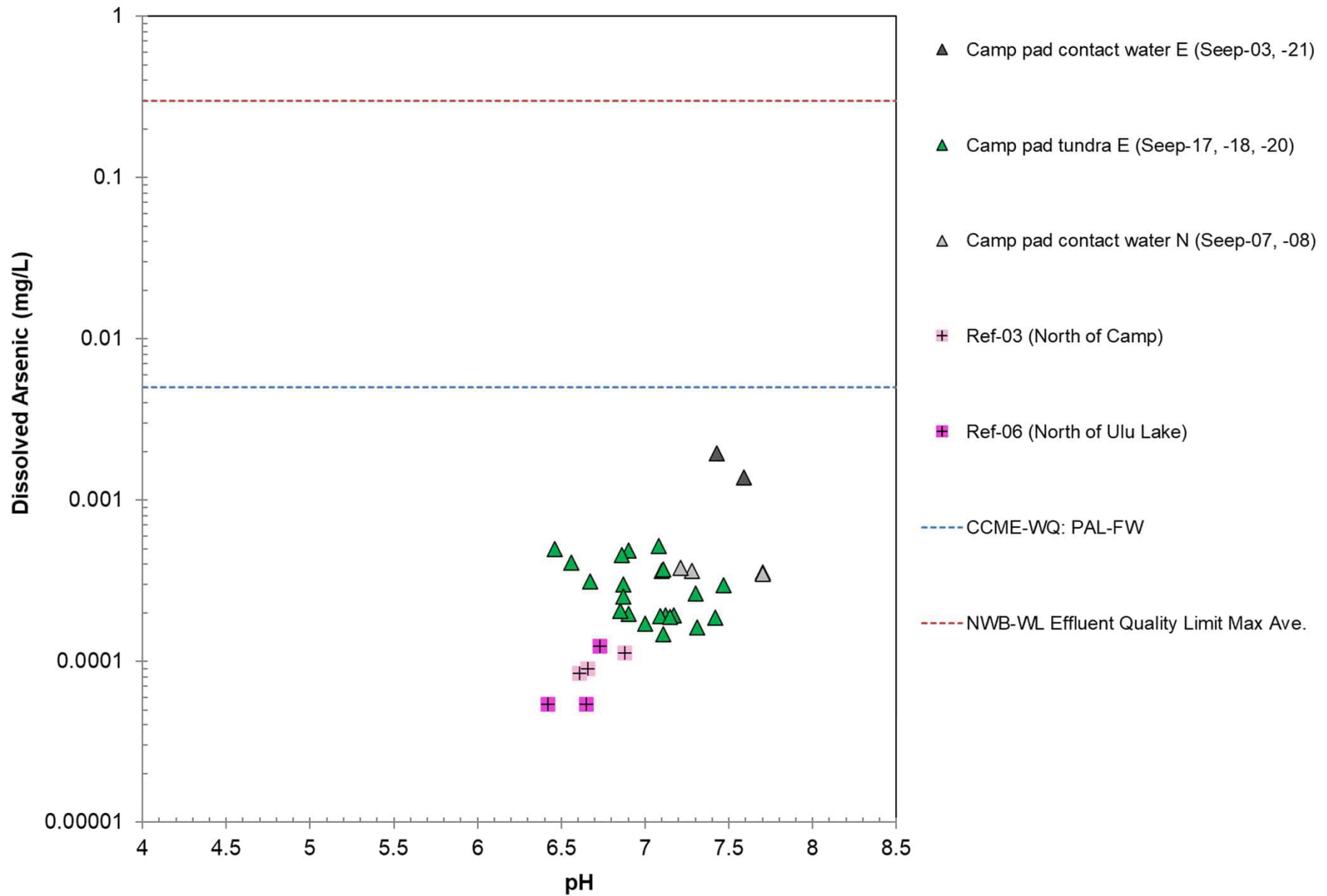


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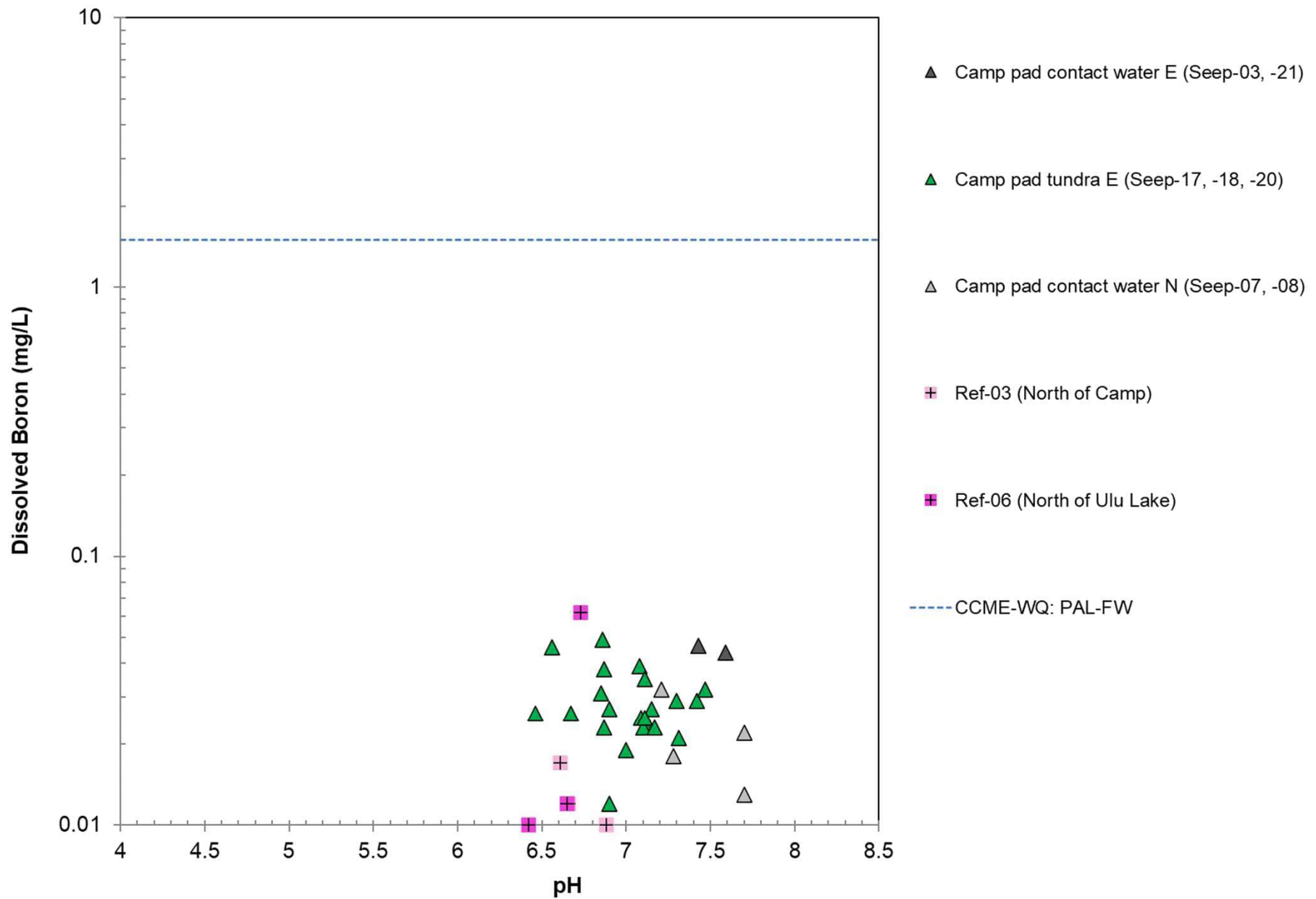




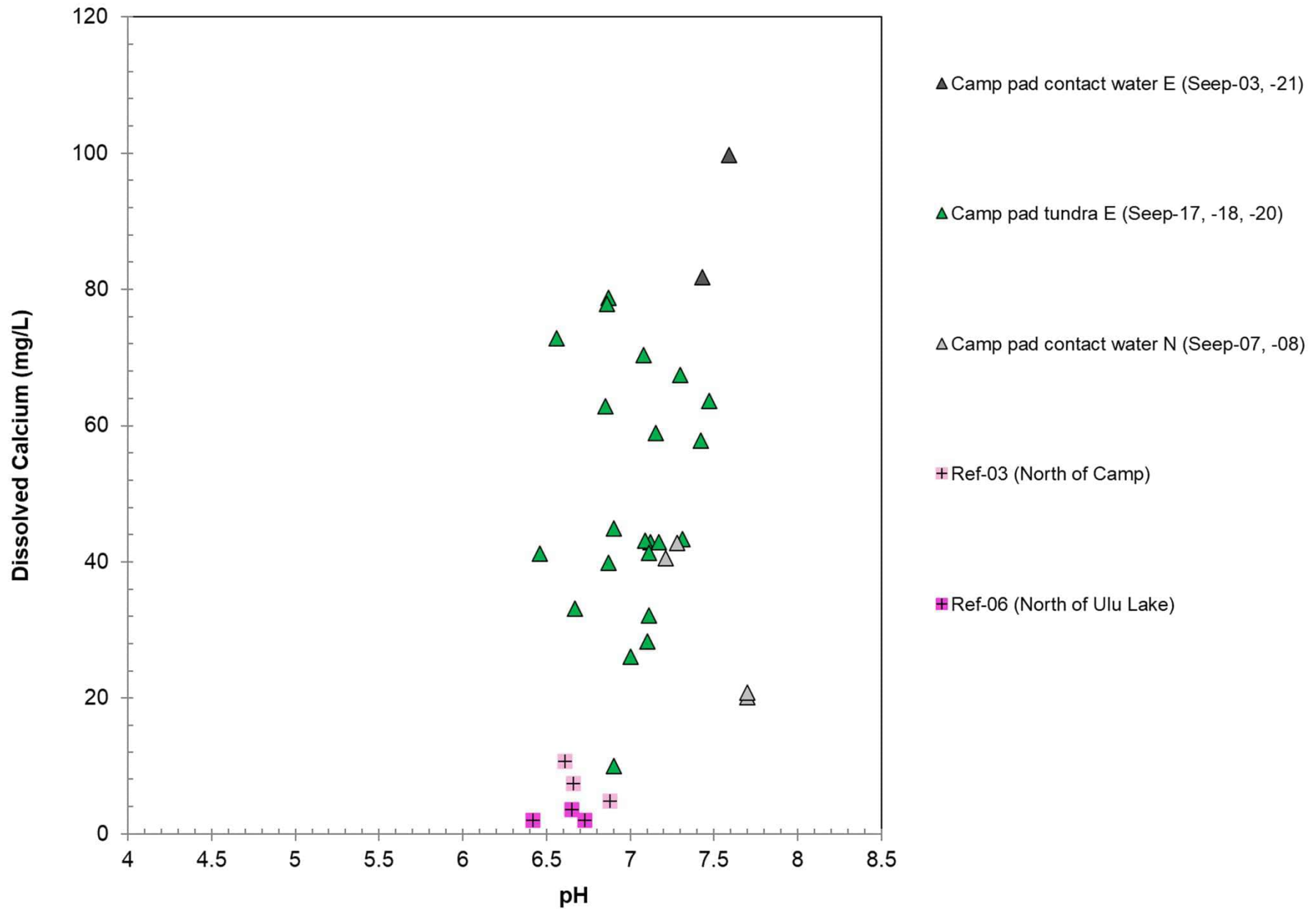
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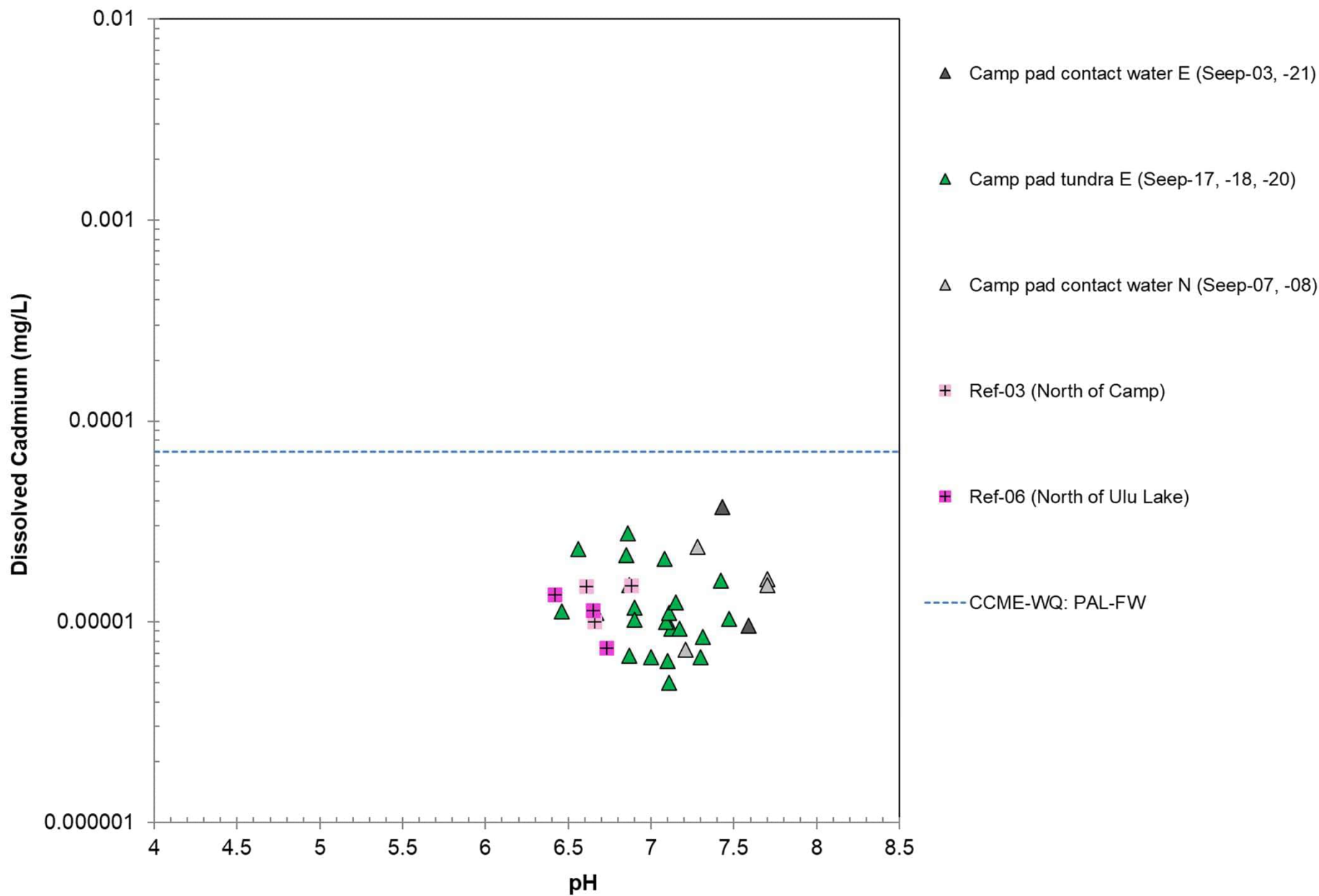
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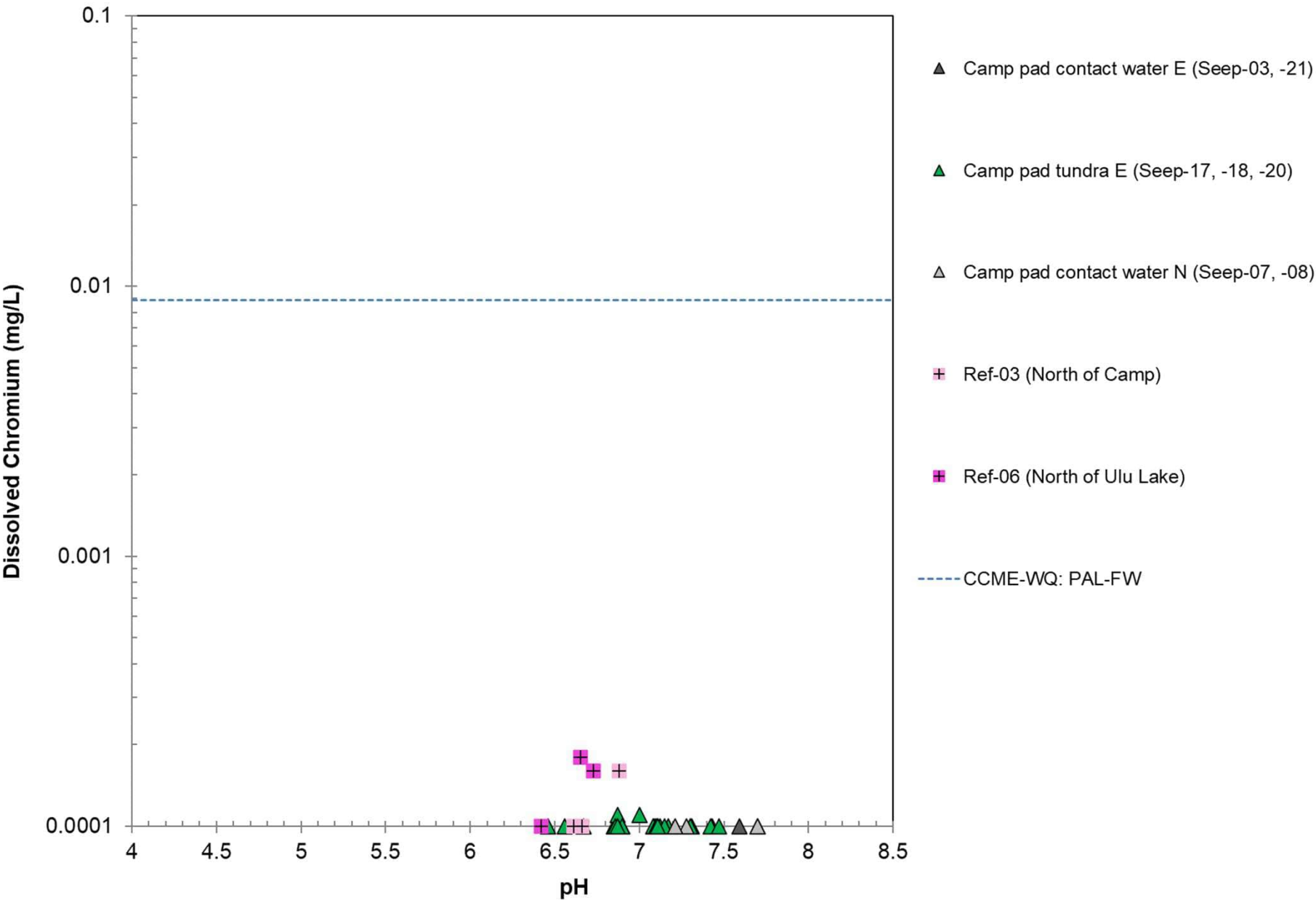
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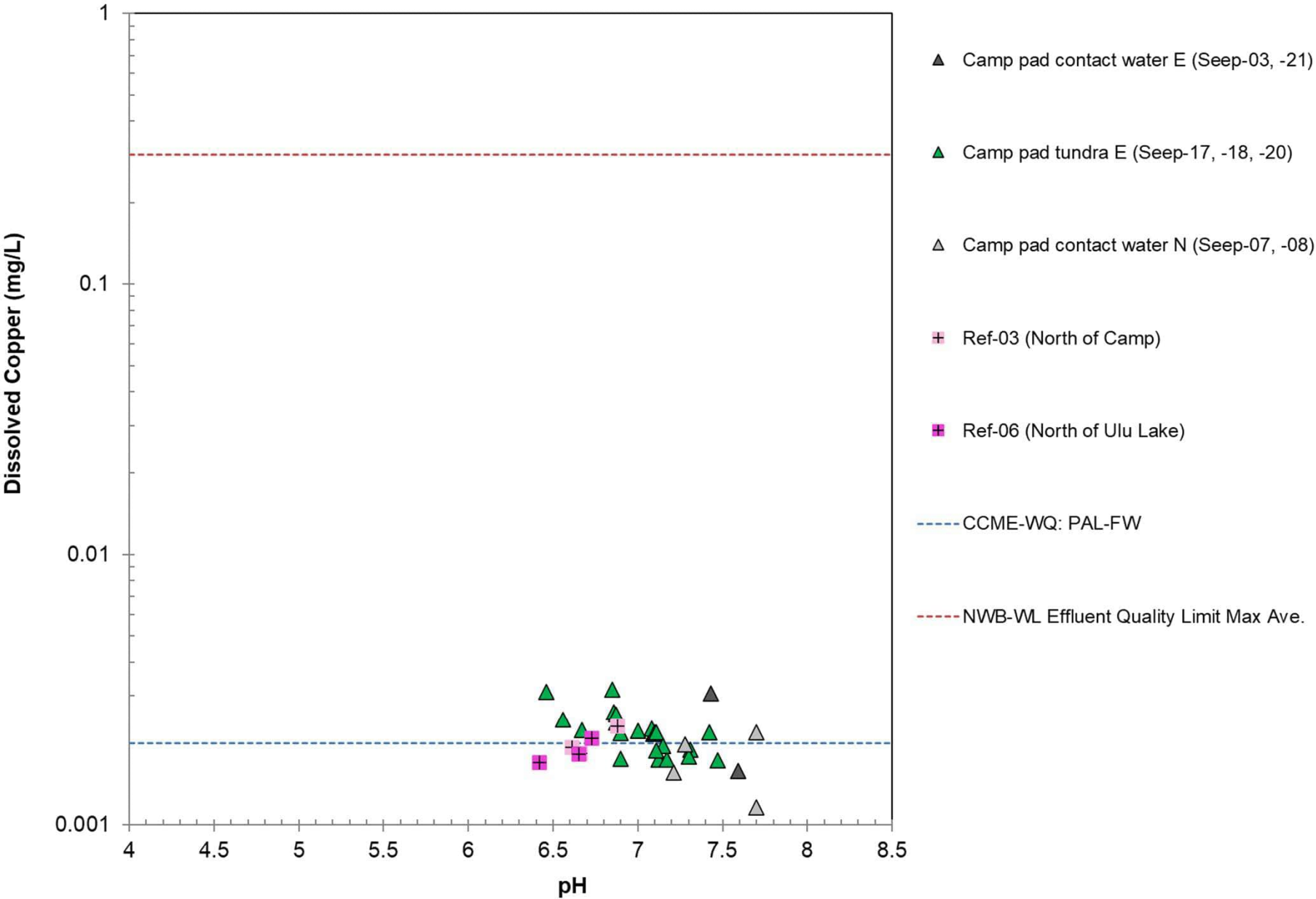
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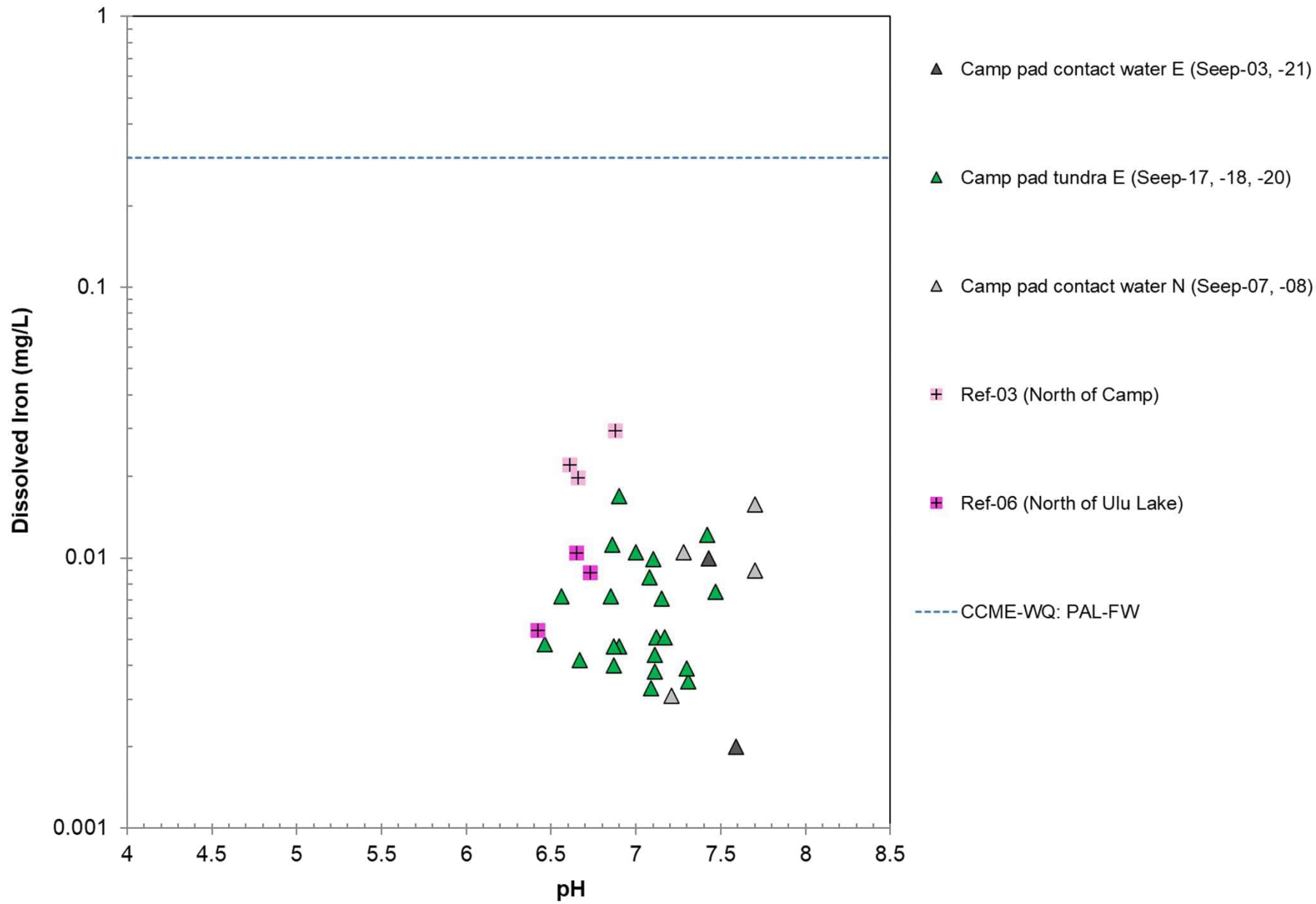
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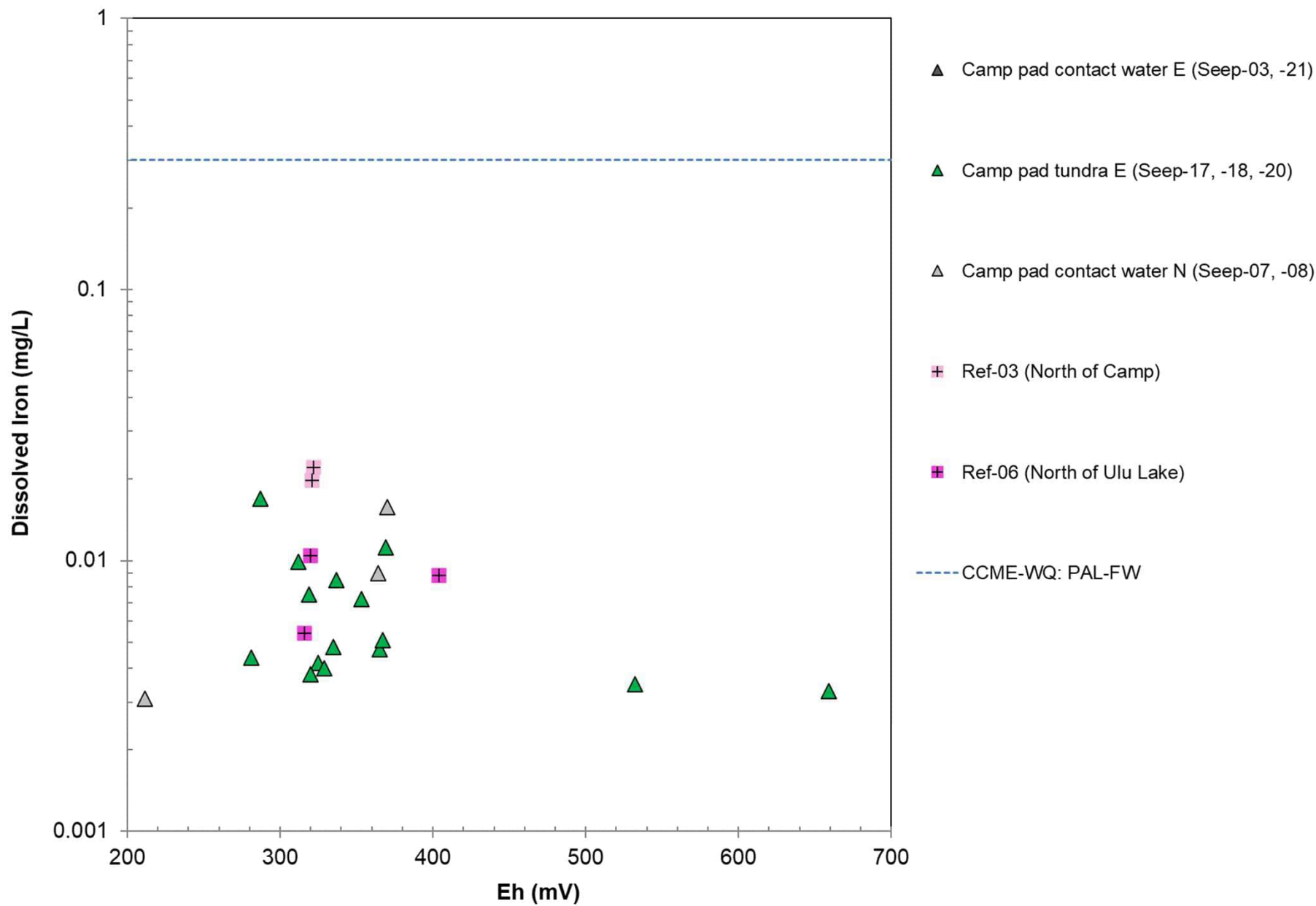
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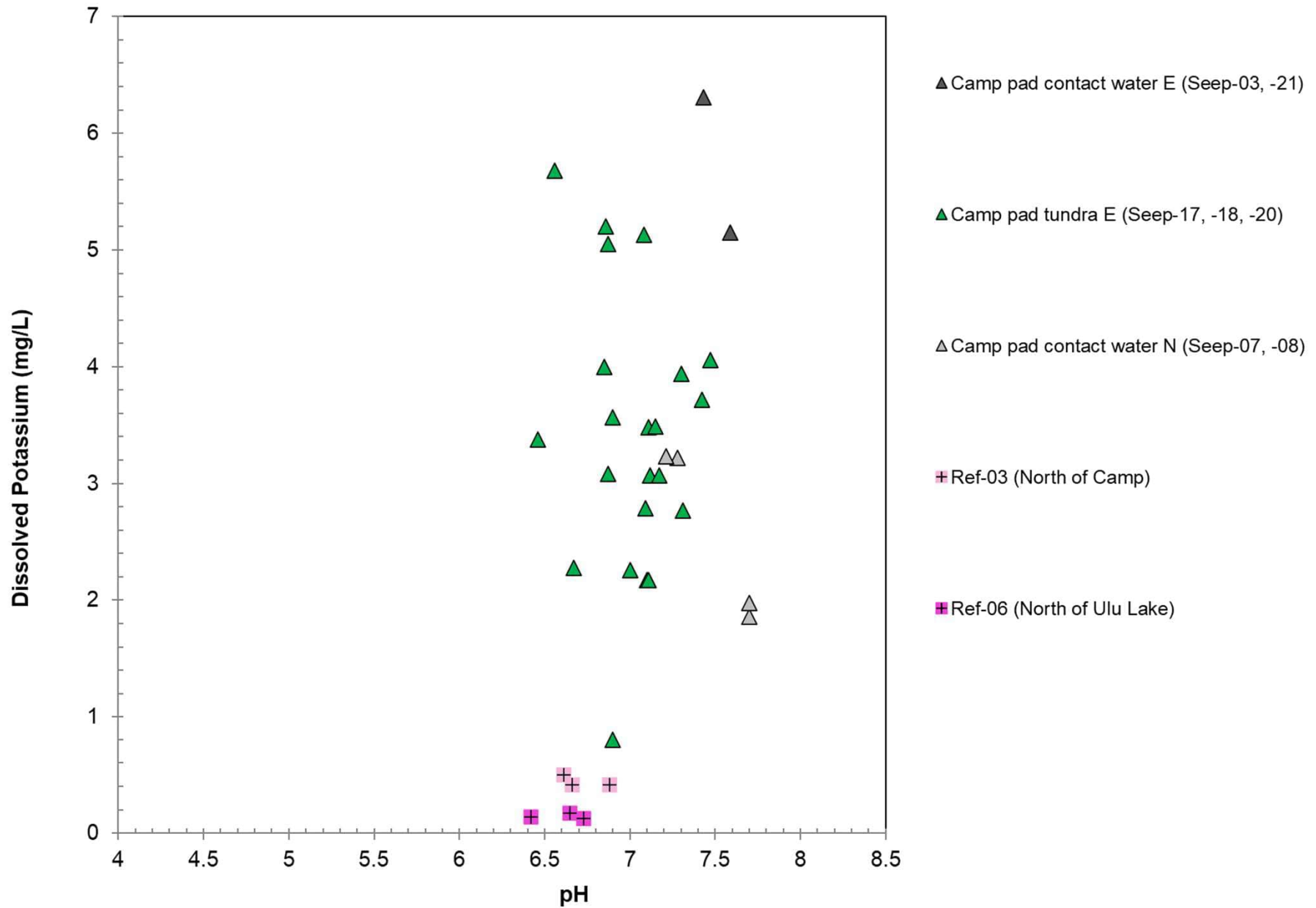
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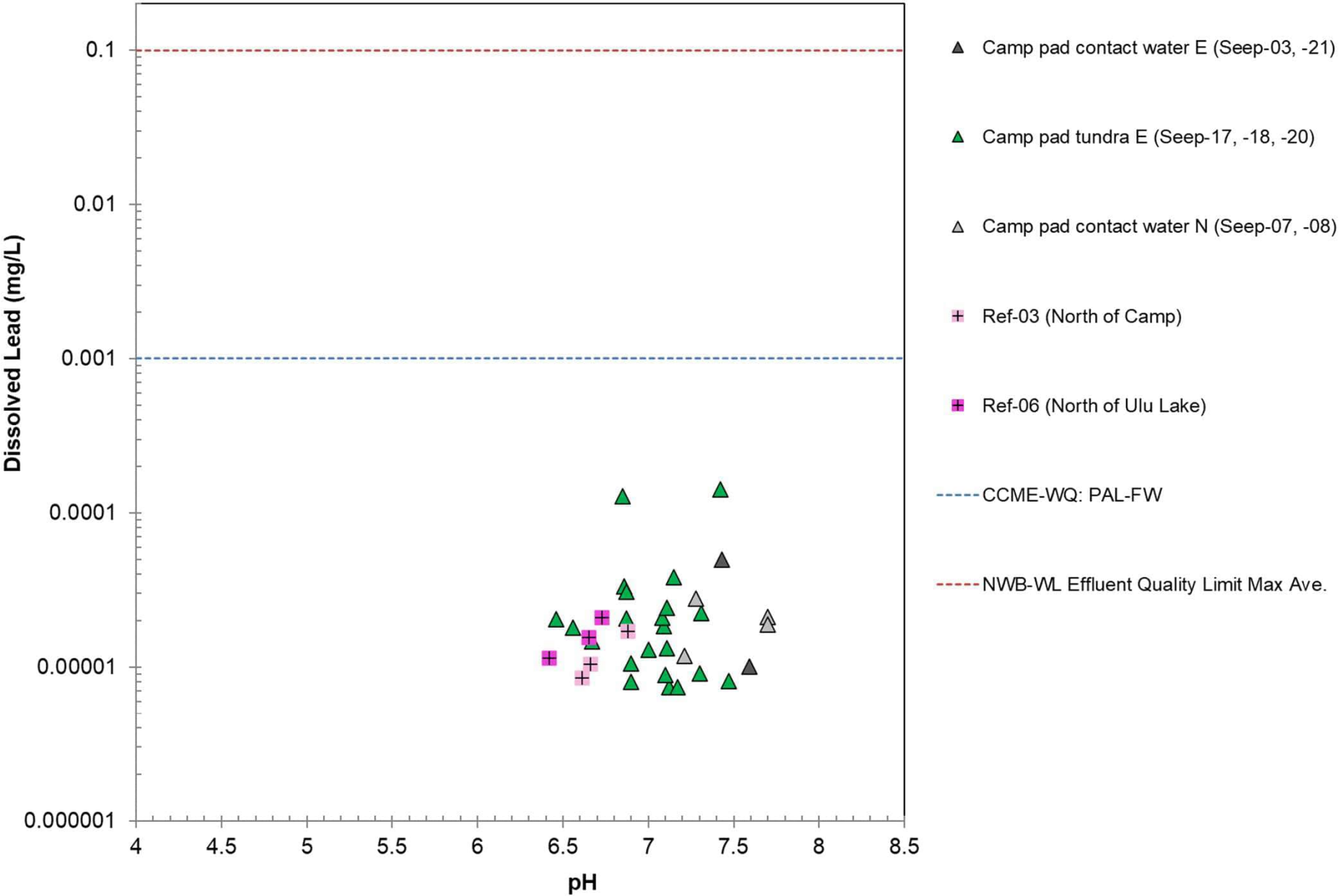
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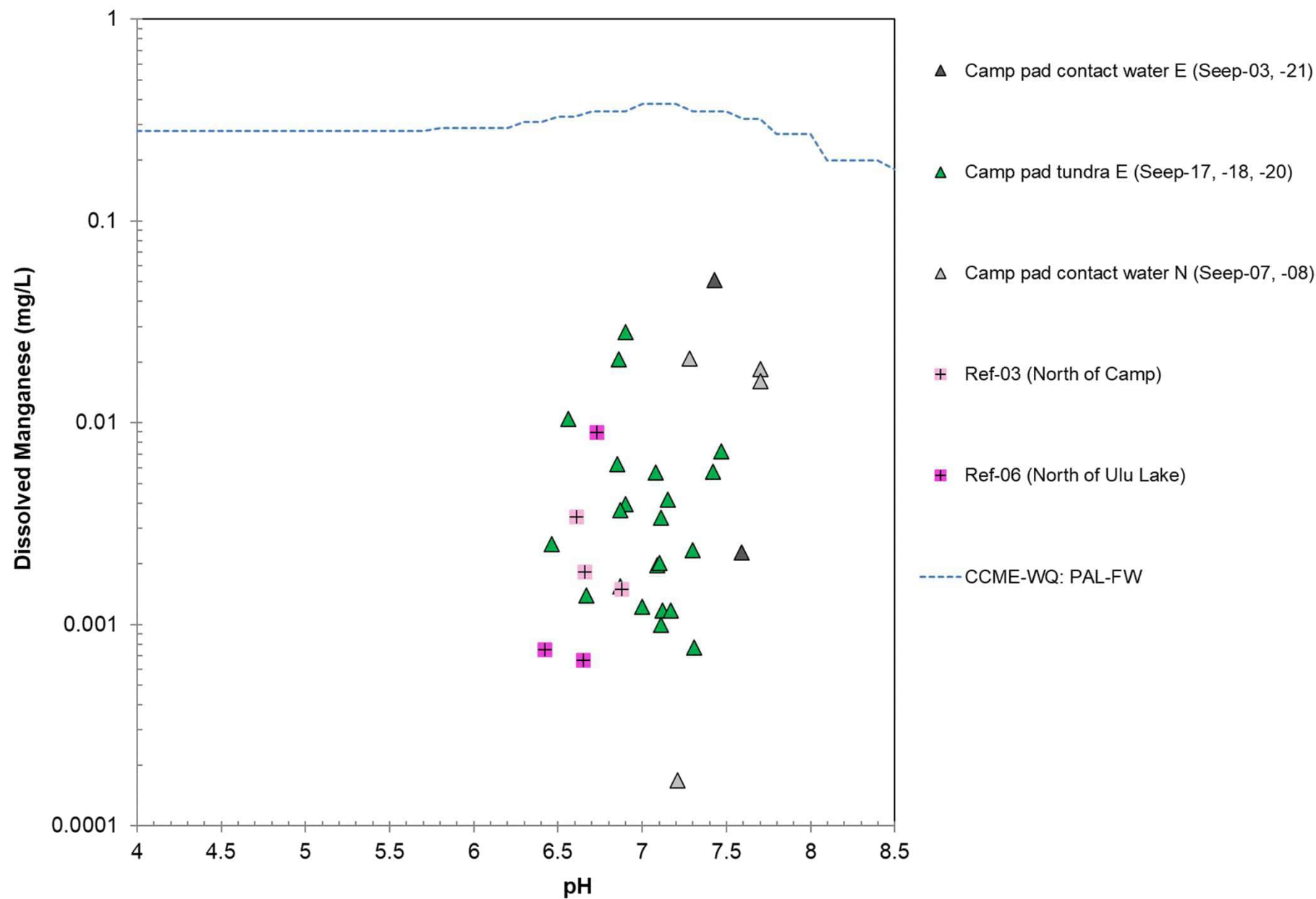
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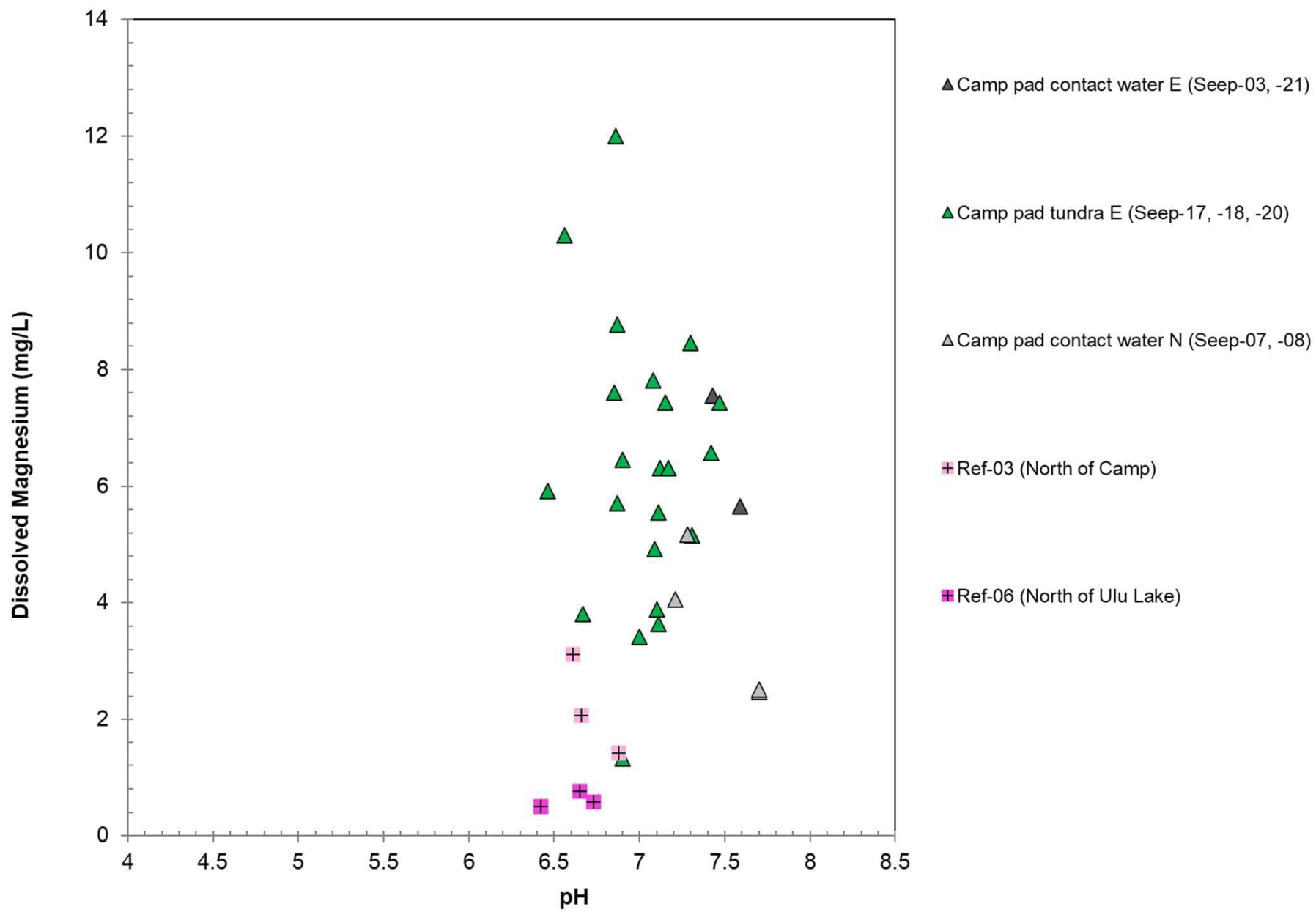


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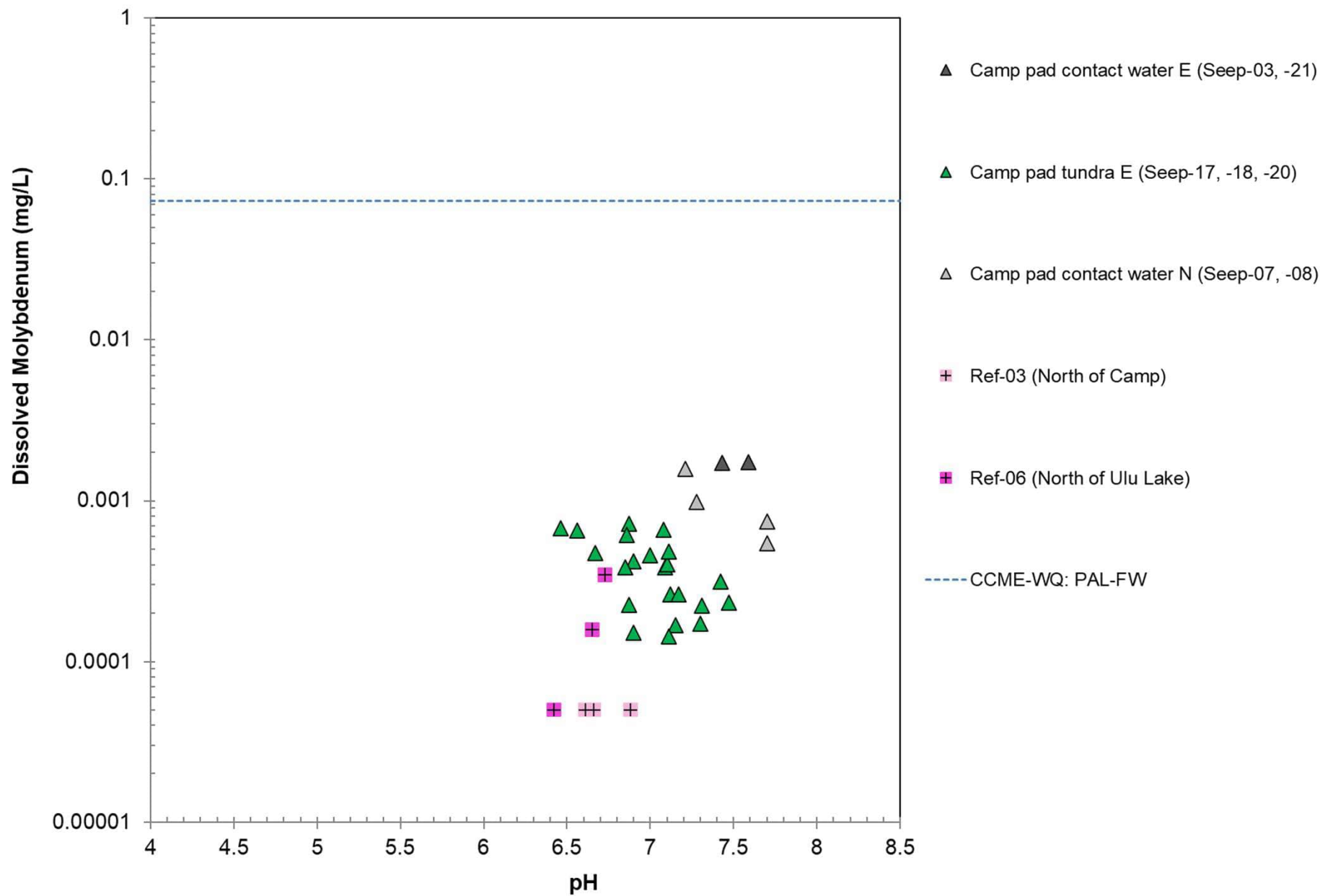


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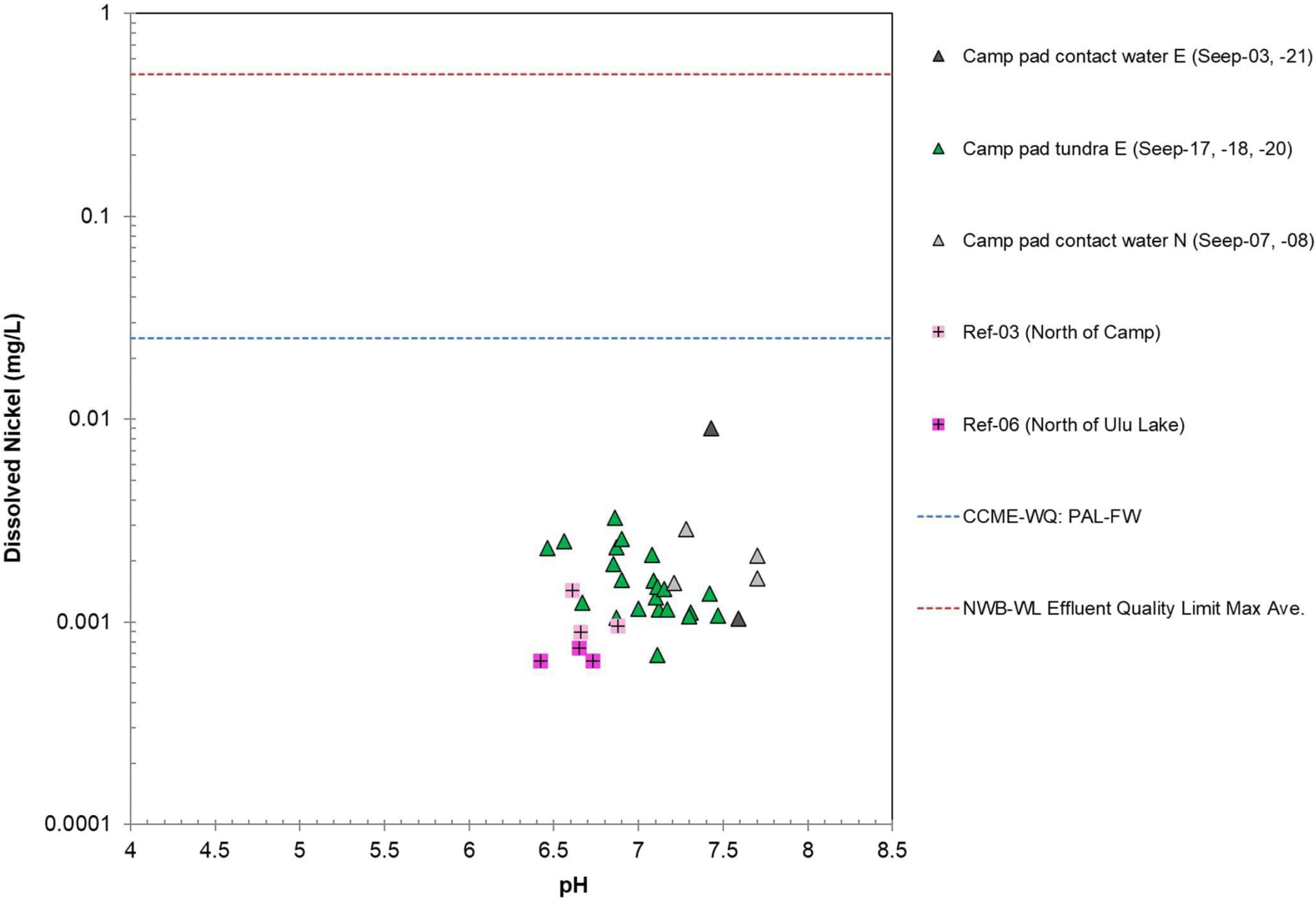




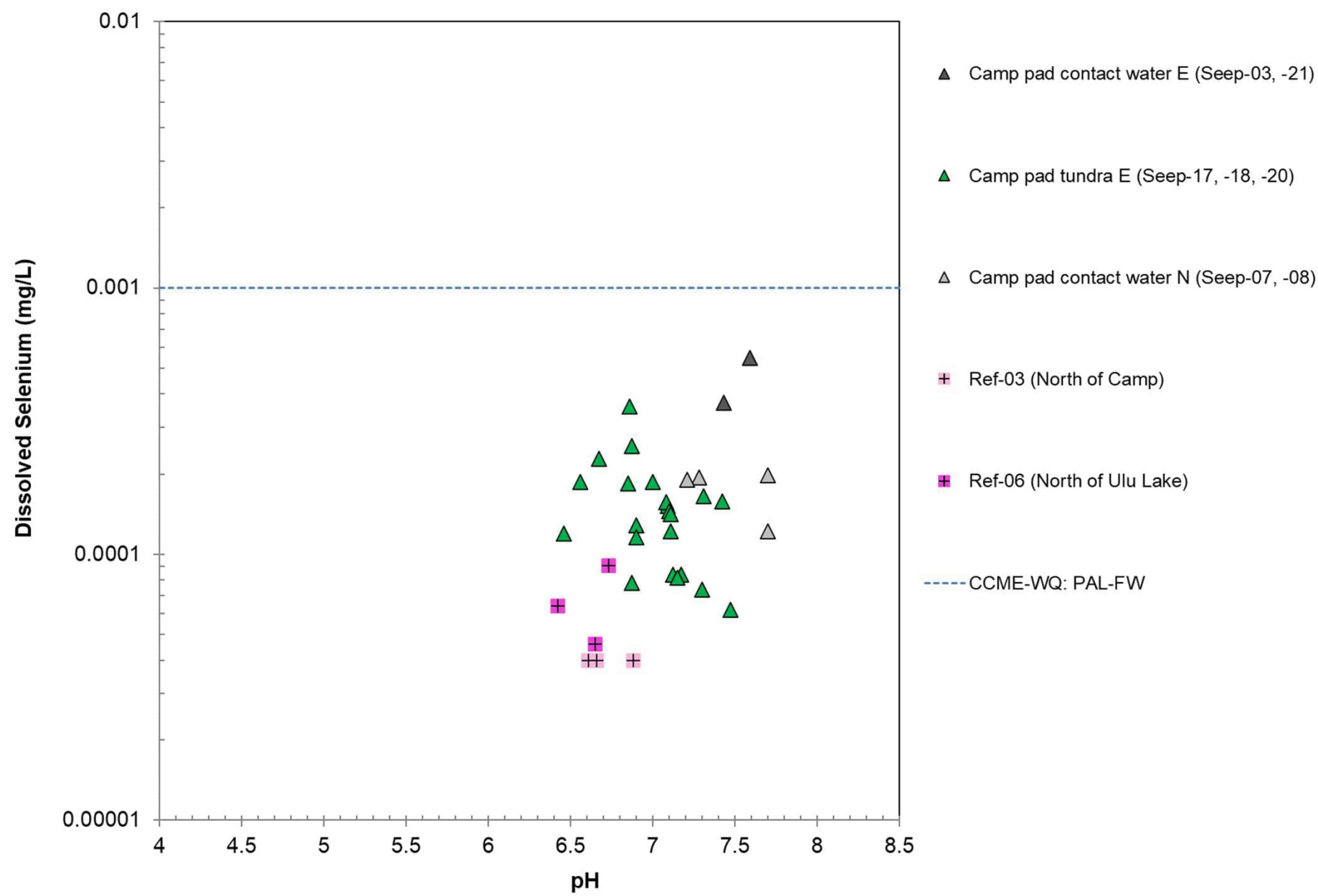
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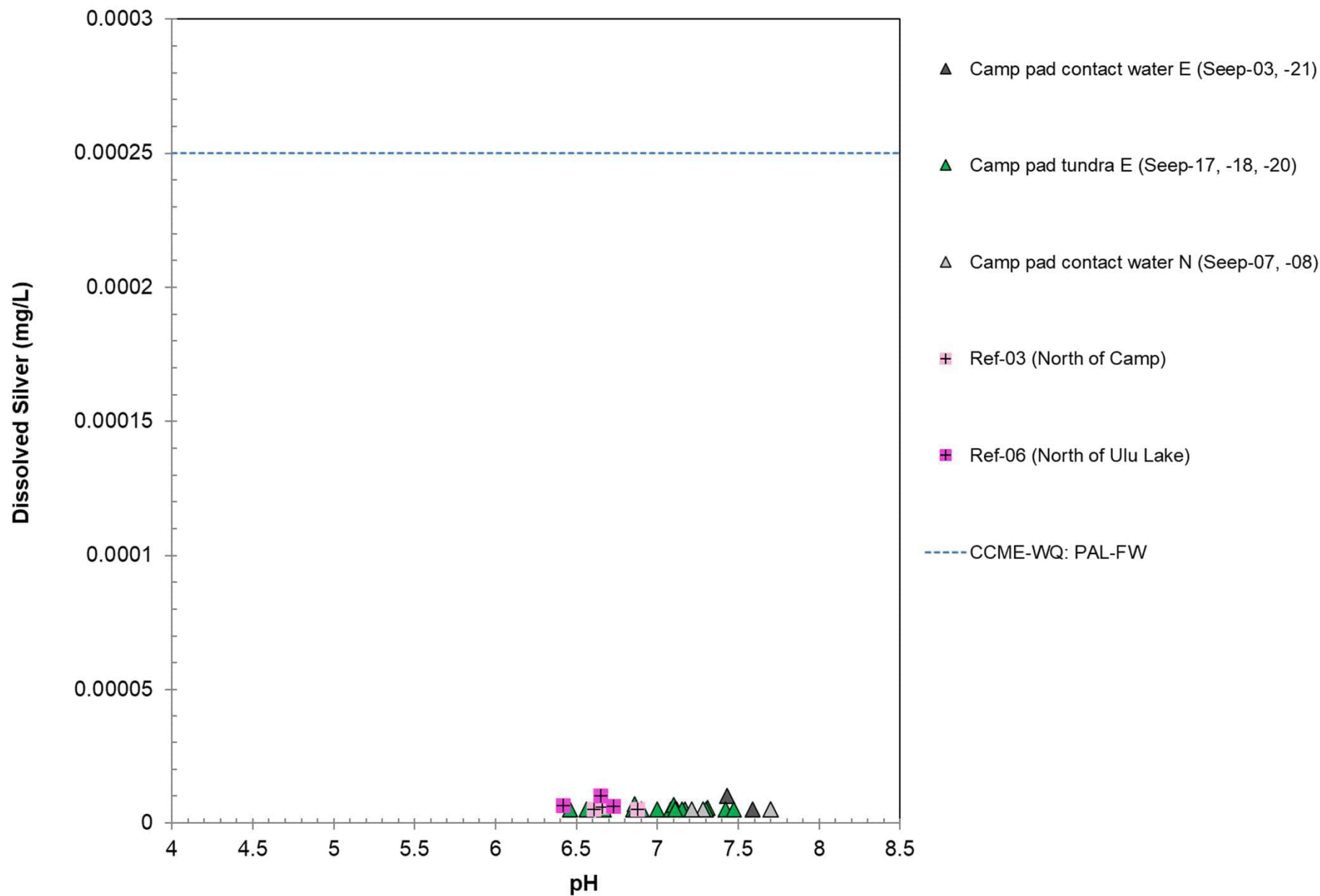
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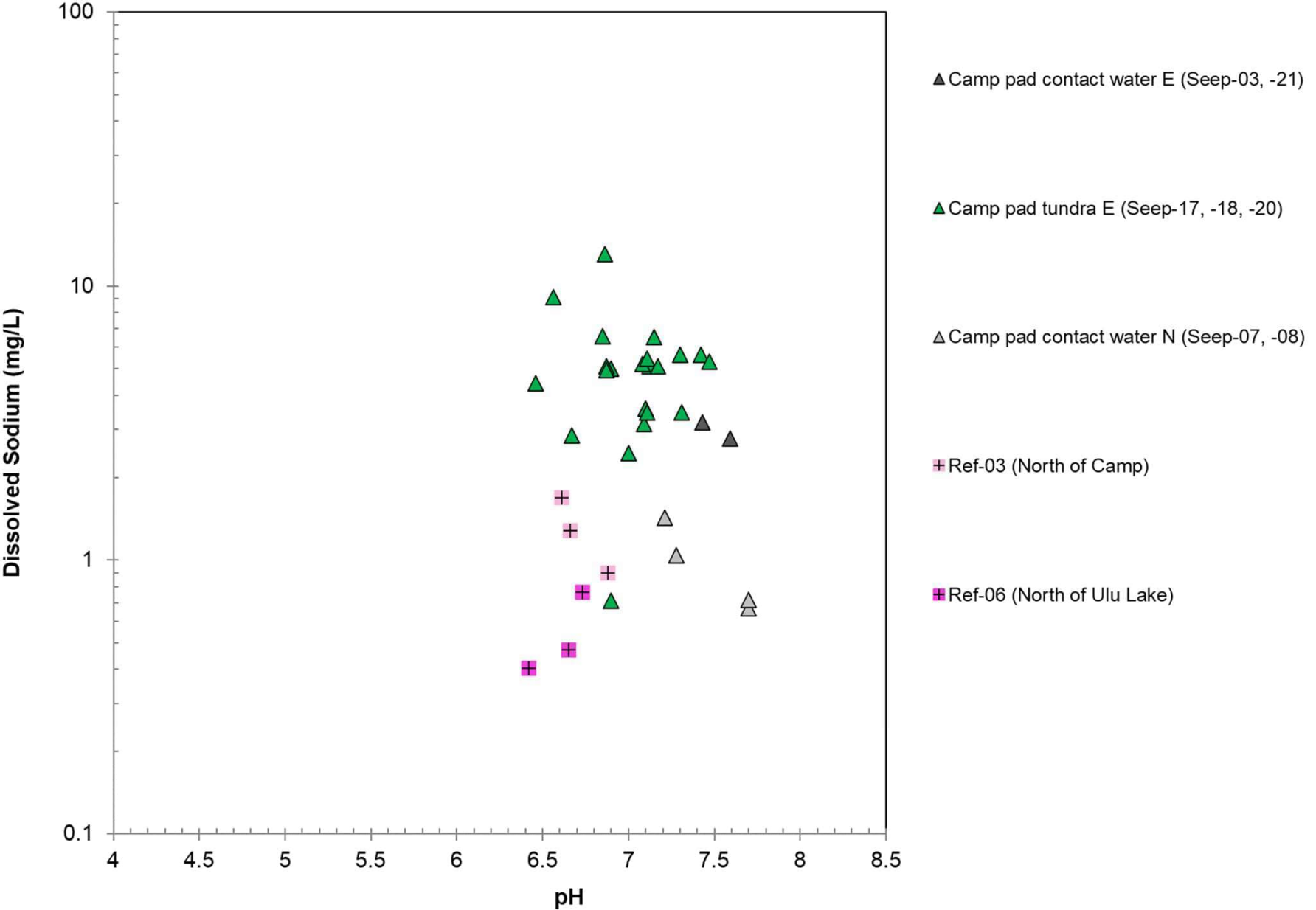
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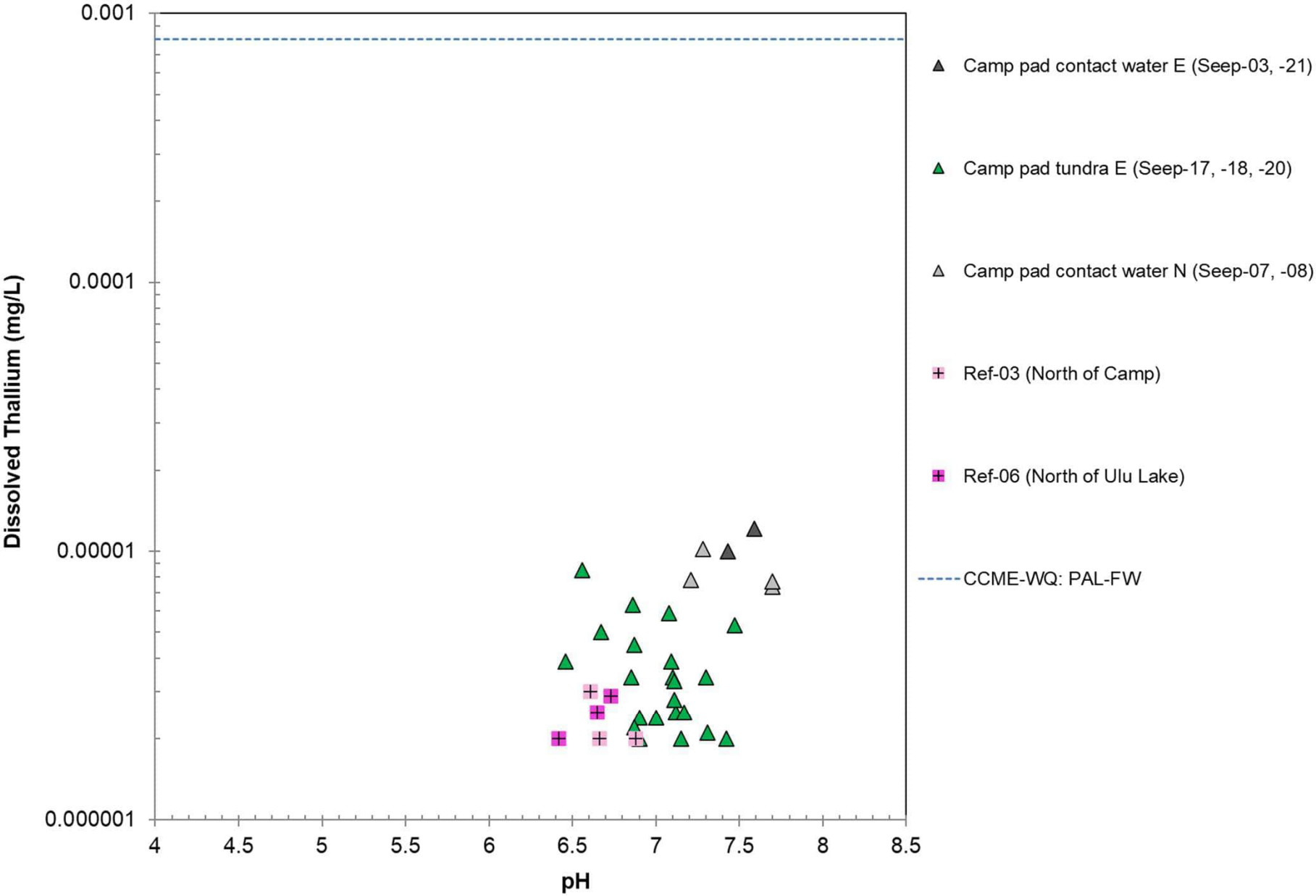
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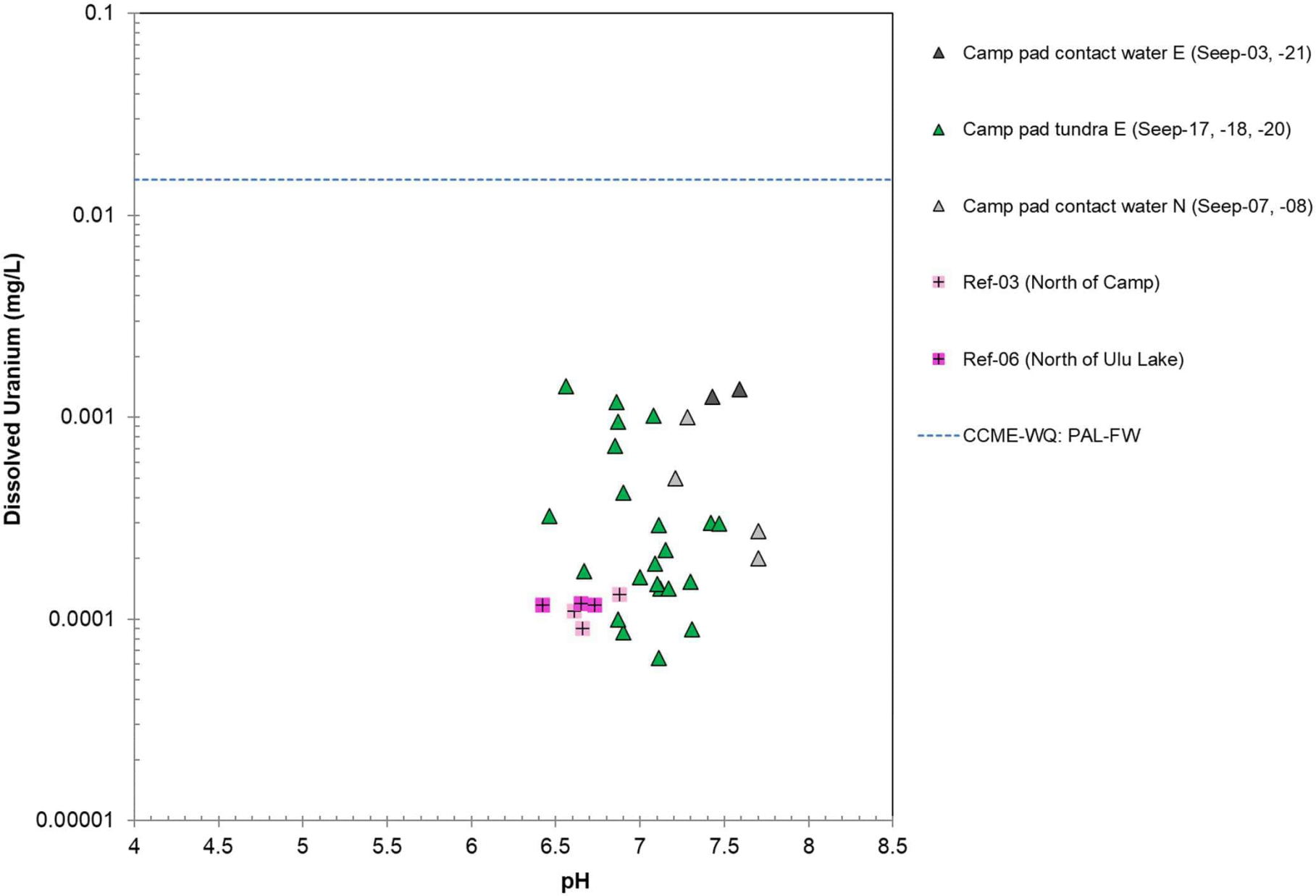
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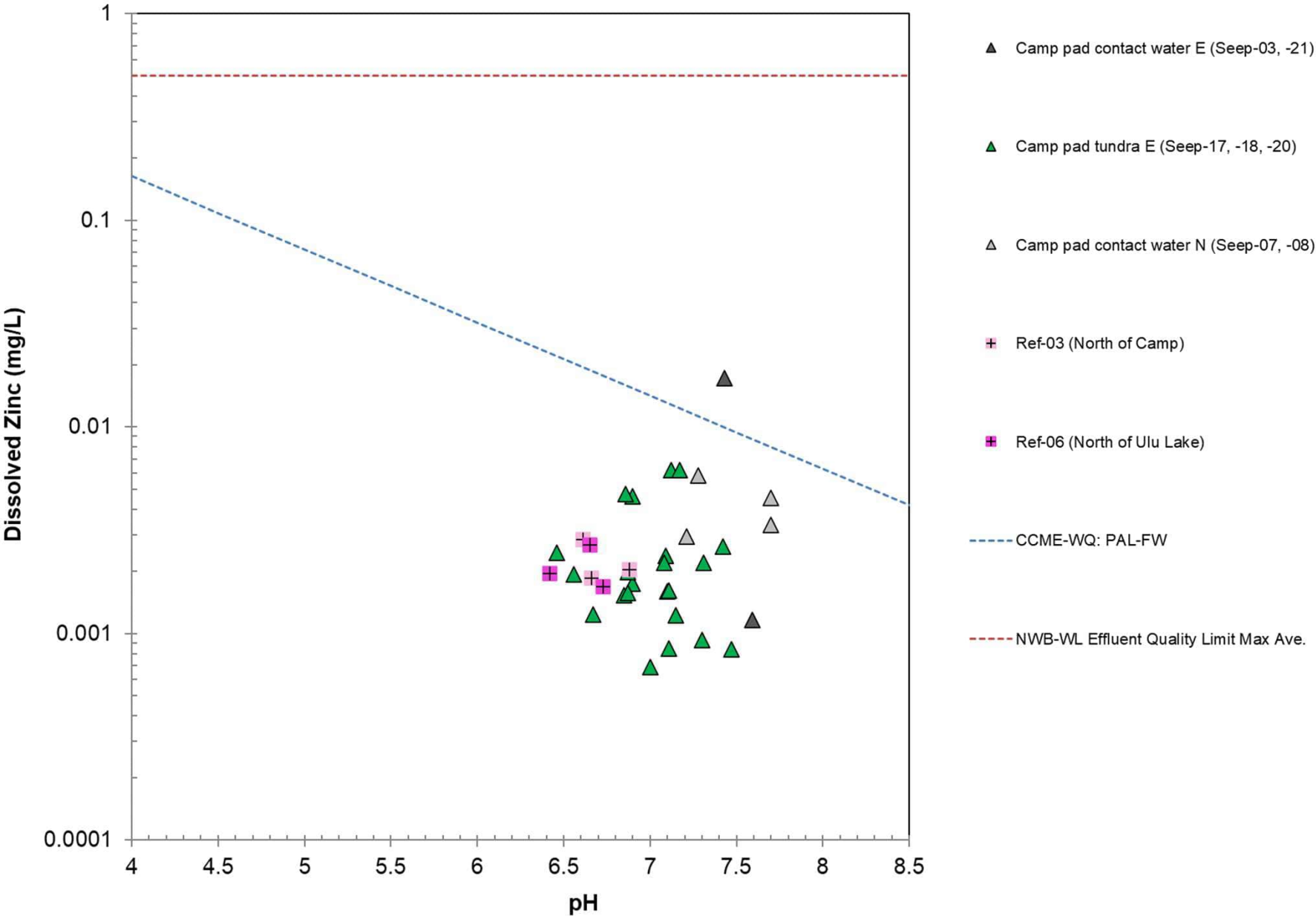
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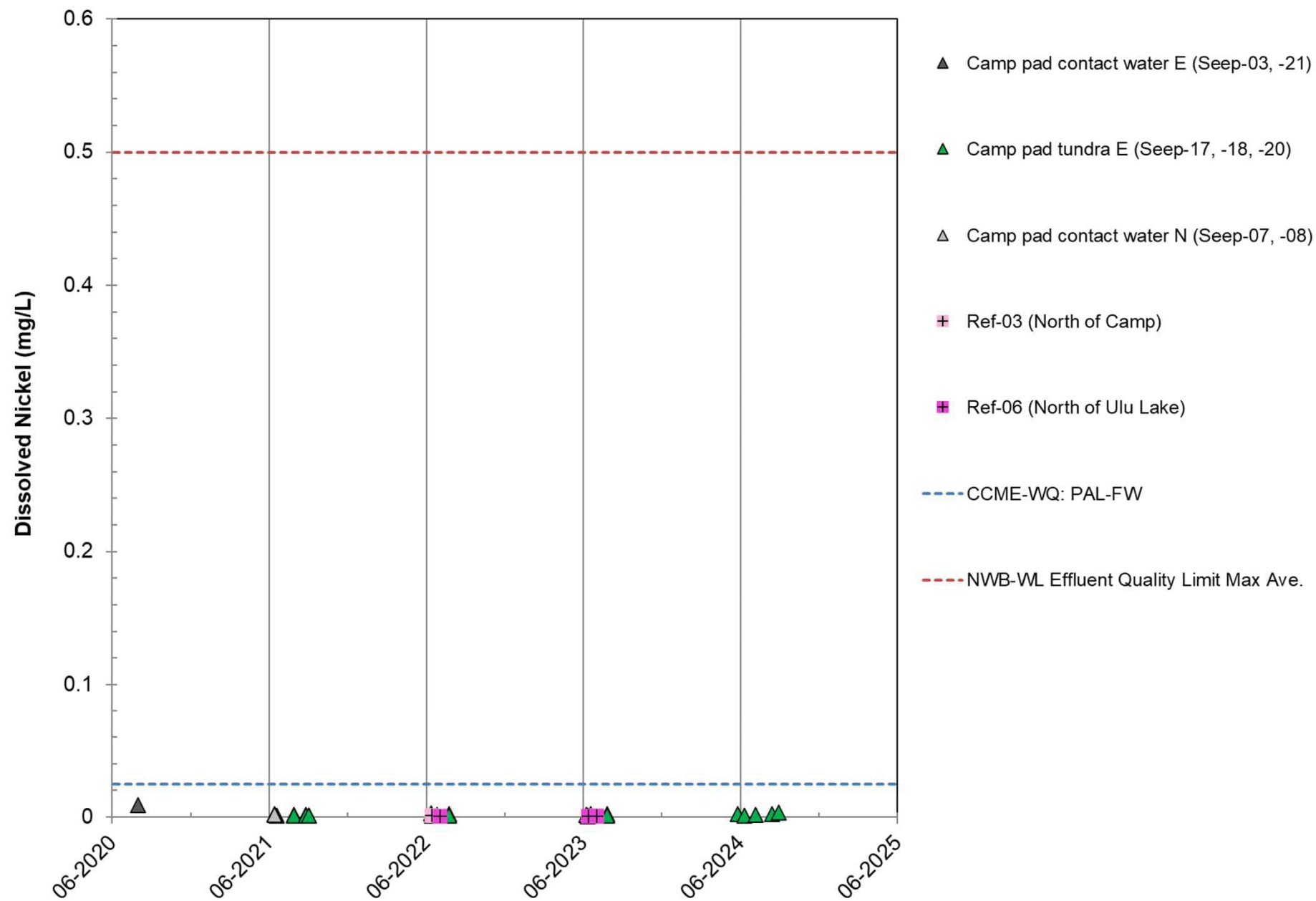
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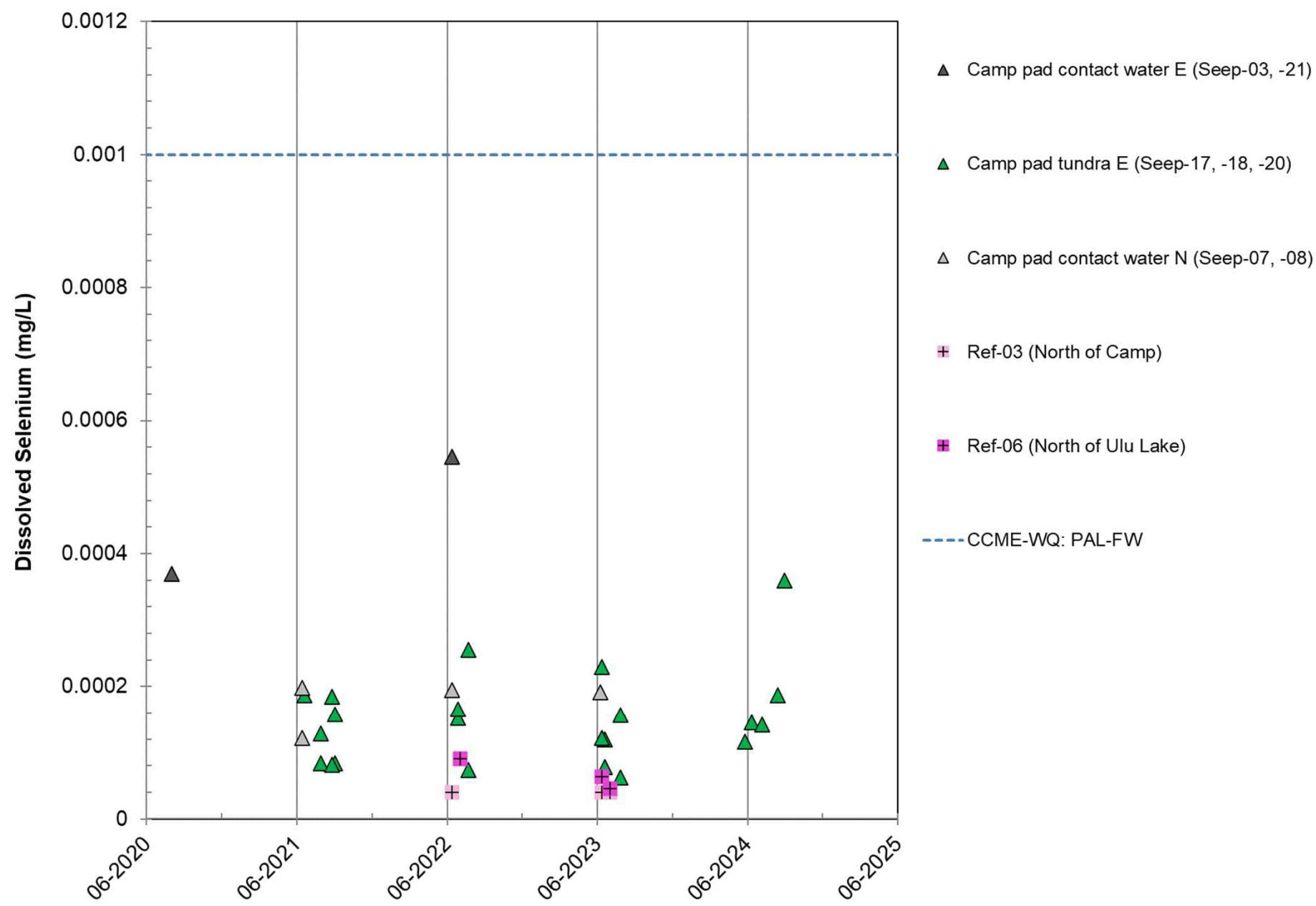
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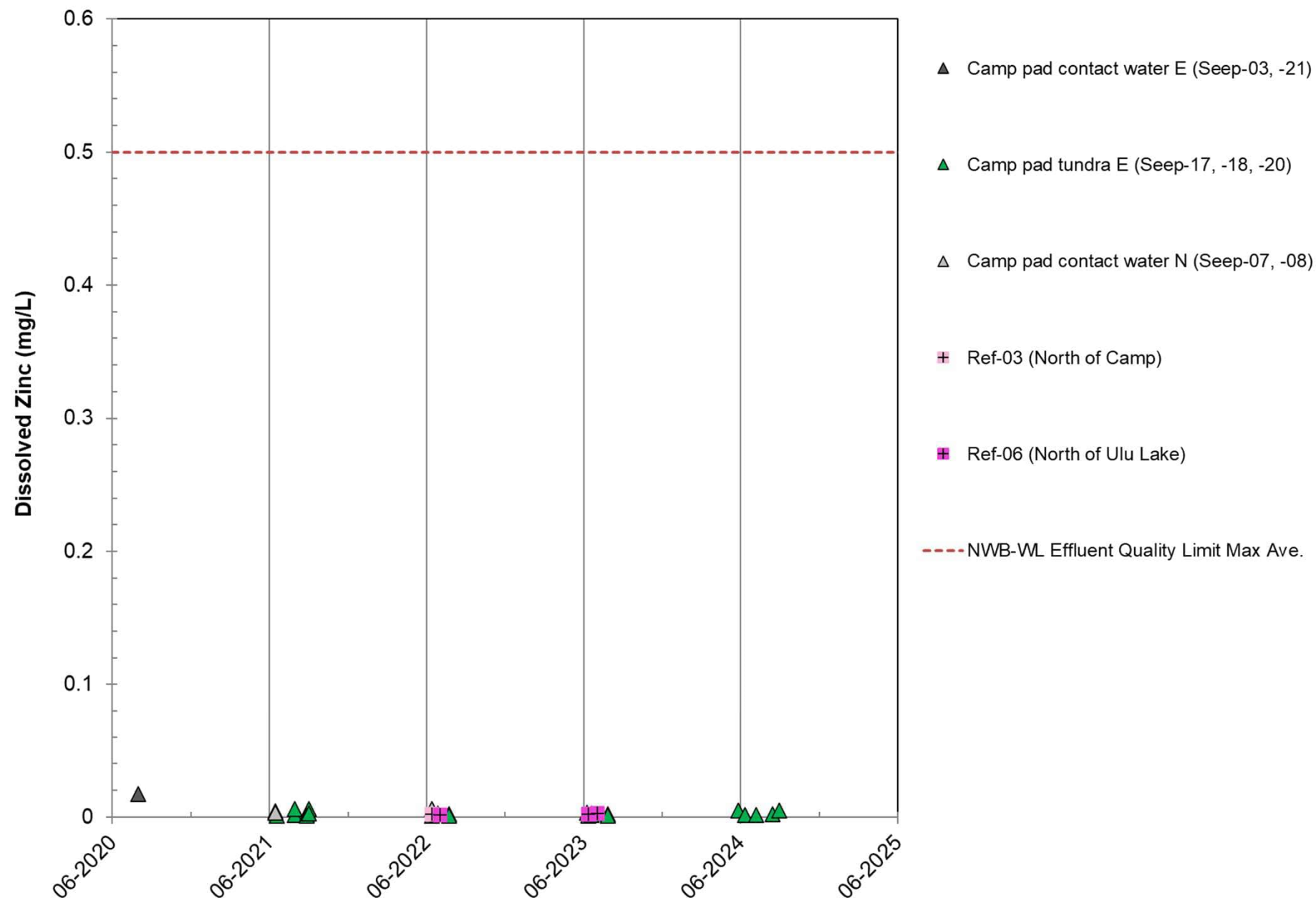
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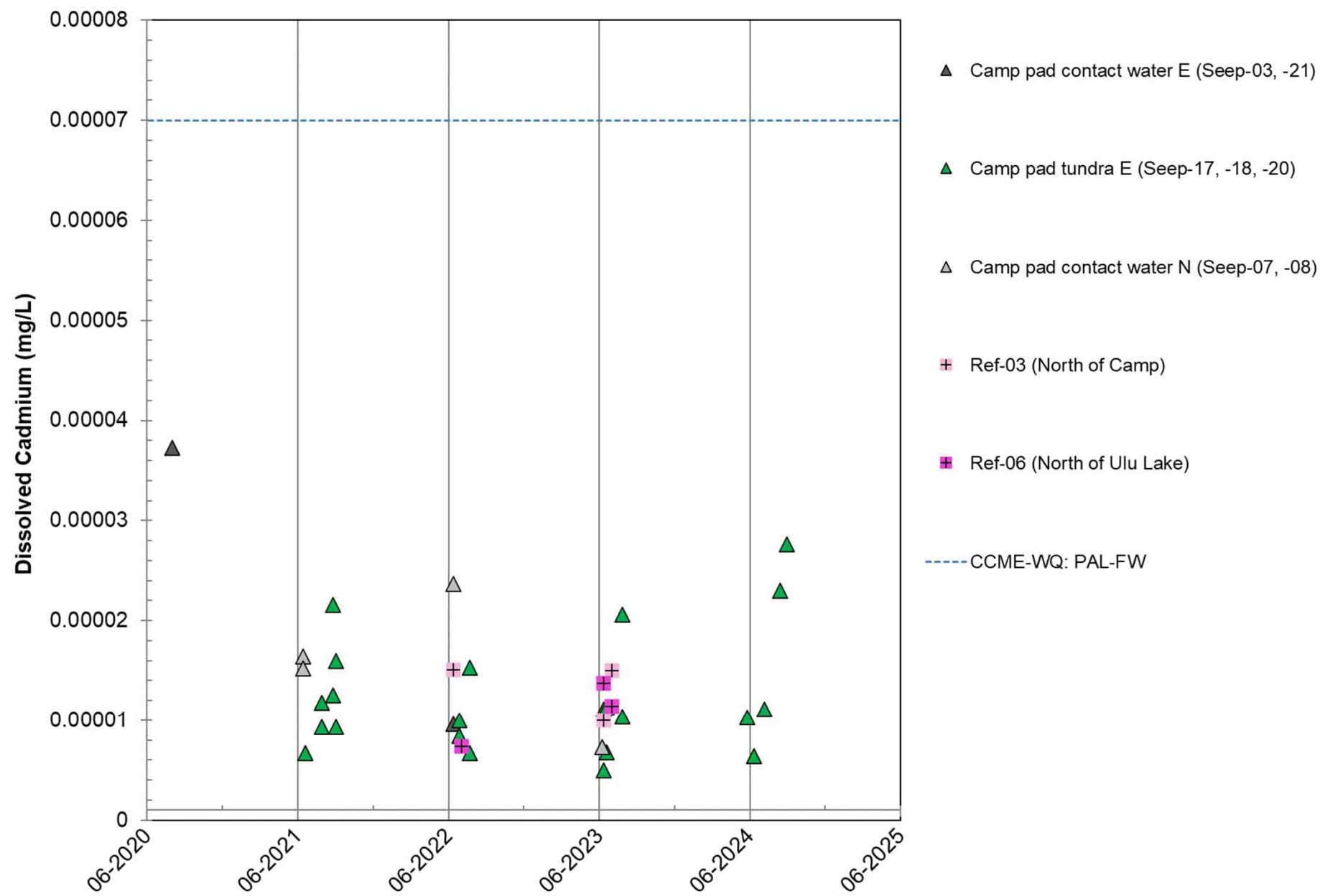
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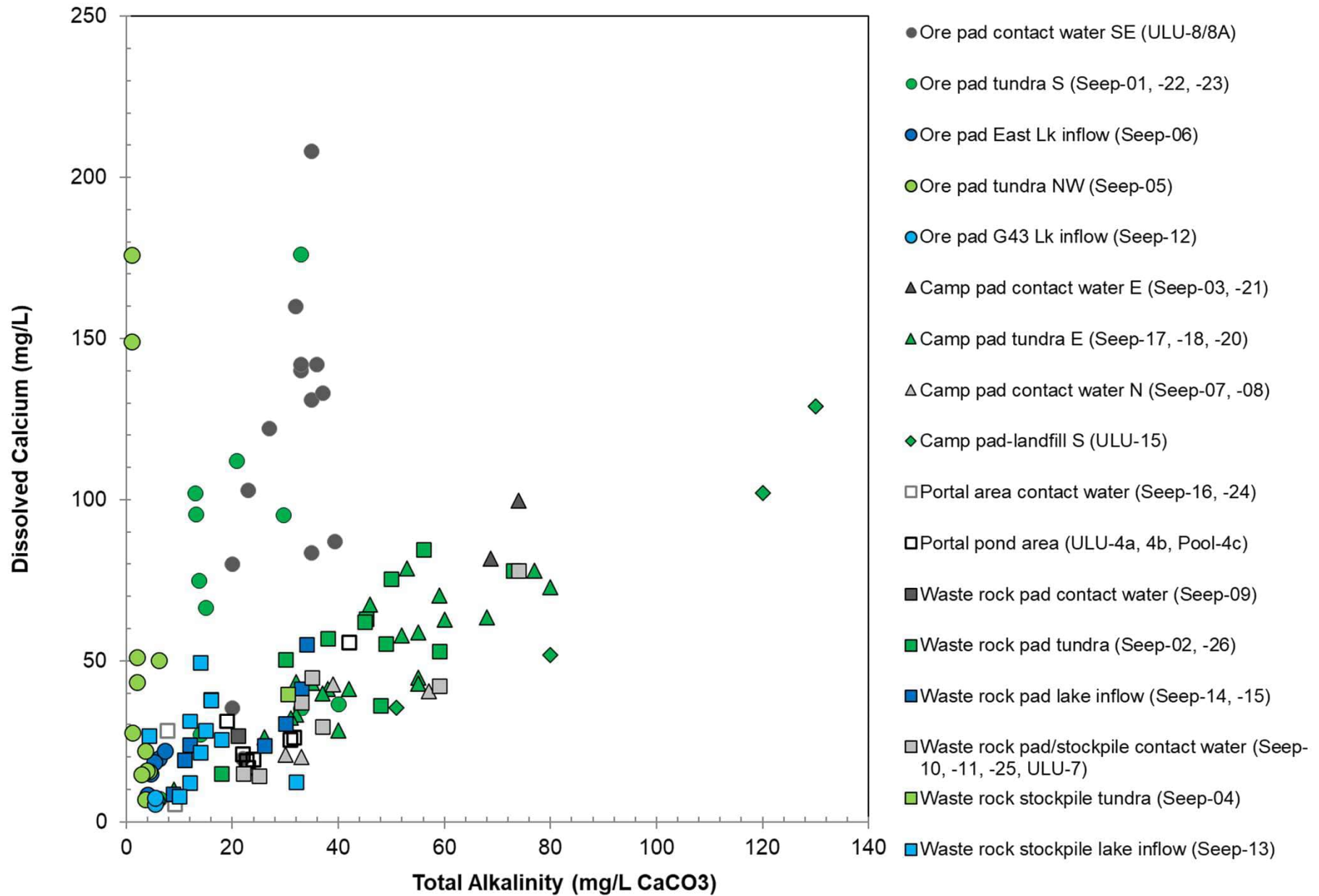


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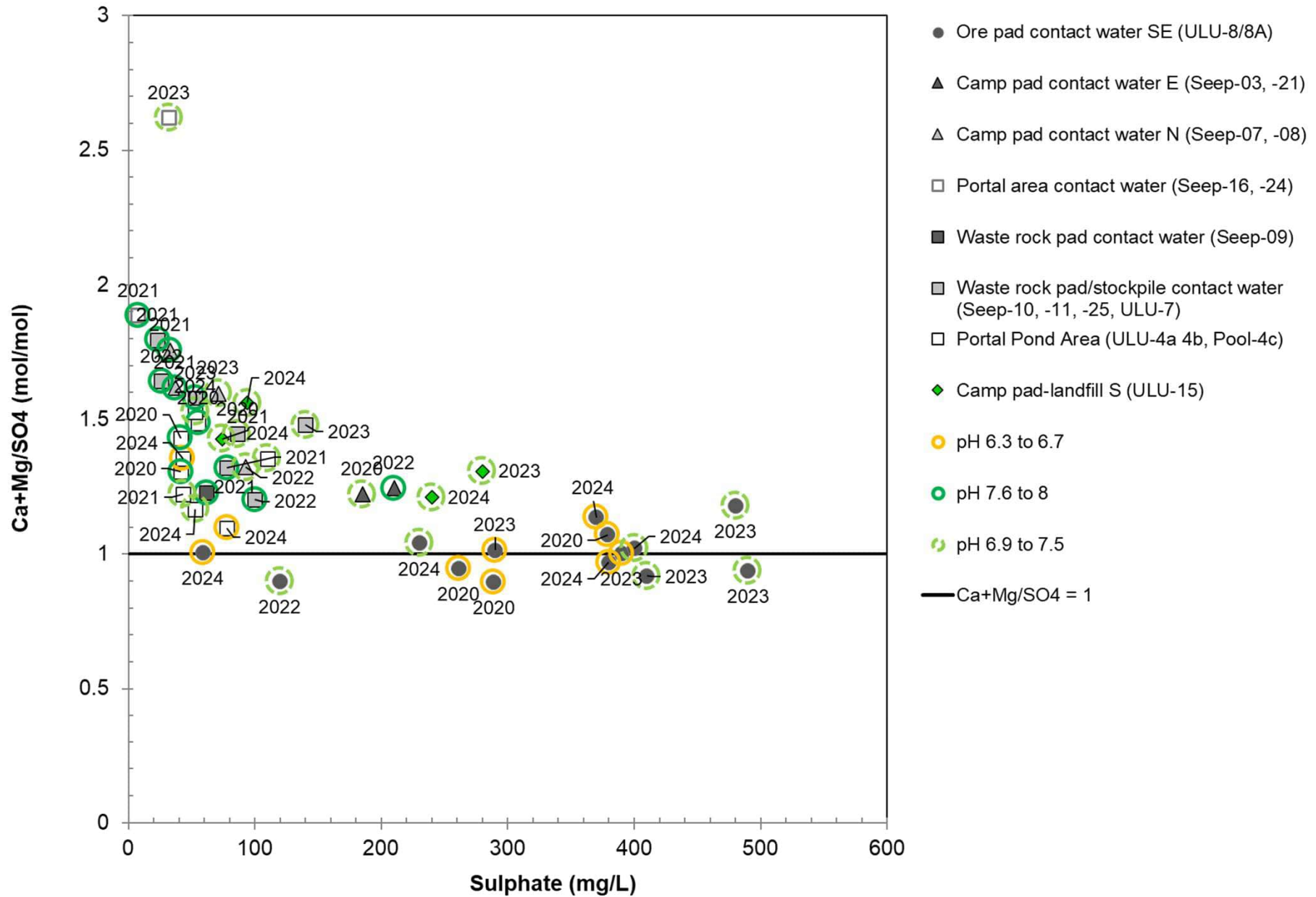


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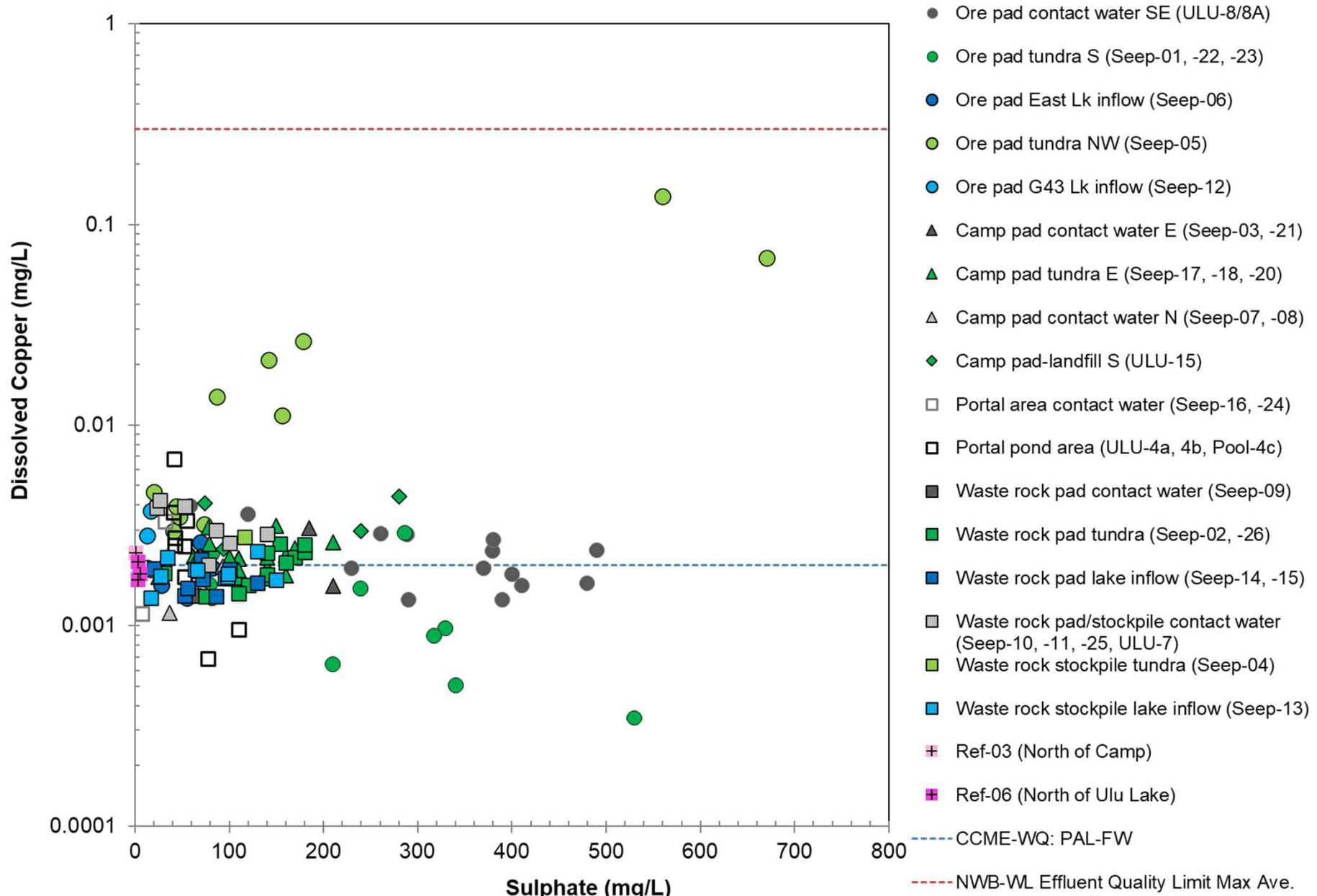
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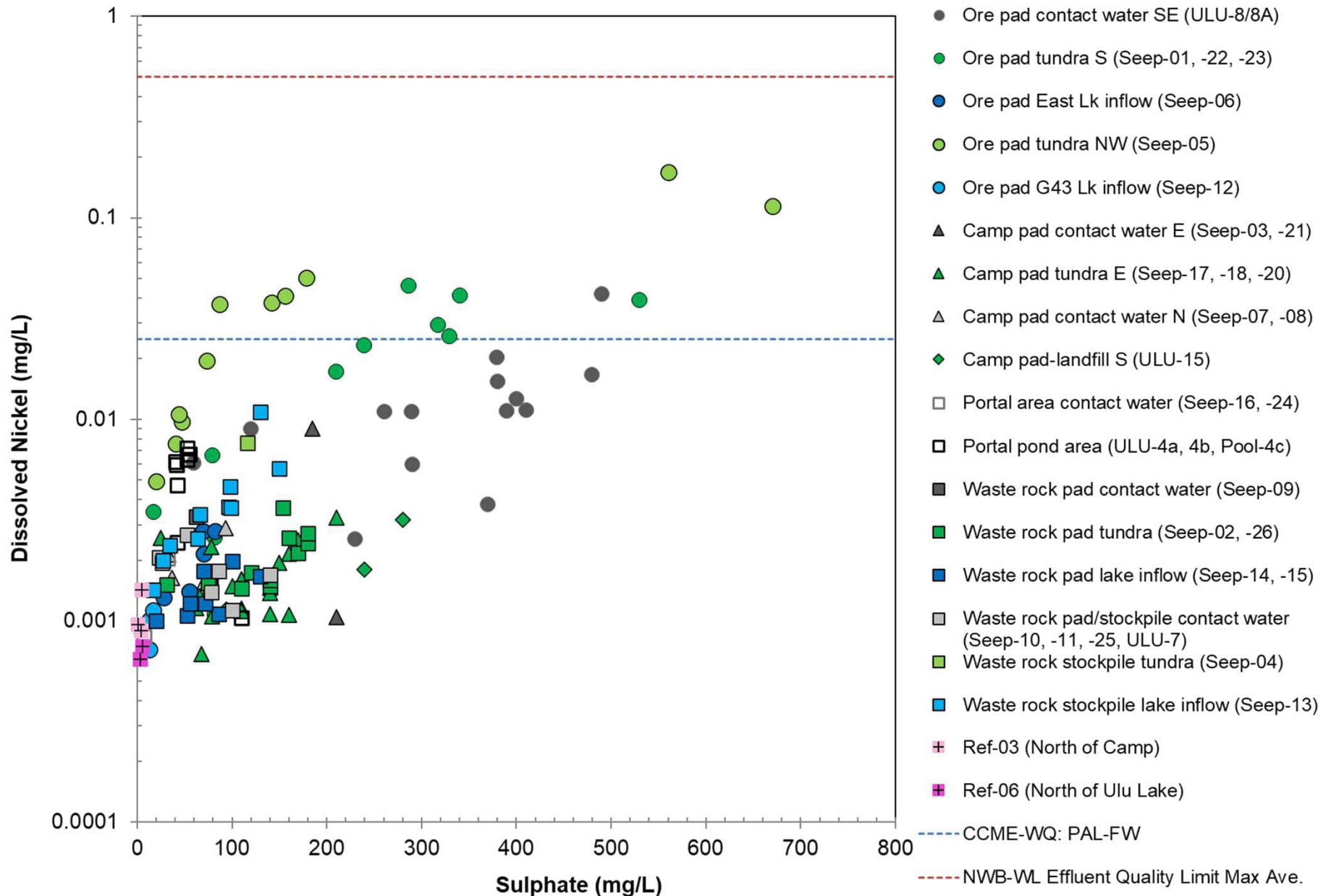
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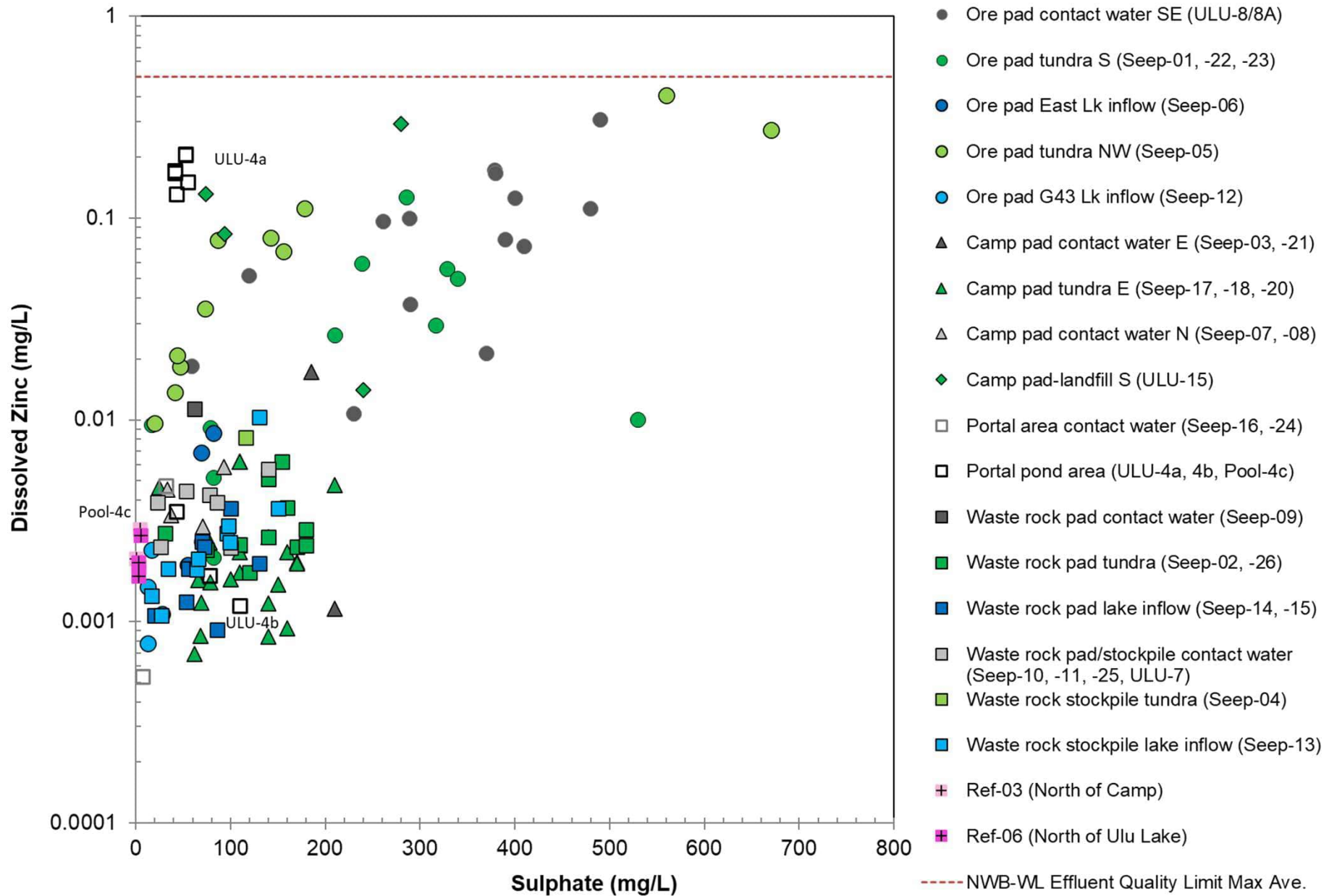
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Appendix D Seepage Data

							Field	Field		Field	Field	Field
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Time (24hr)	Sampled by	pH	EC	Flow	DO	ORP	ORP (Eh)
Units							pH units	uS/cm	L/s	mg/L	mV	mV
DL												
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	14:45	AS	6.6	1050	?	#N/A	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	10:00	AS	6.6	728	?	#N/A	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	17:05	AS	6.7	1567	0	#N/A	#N/A	#N/A
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	13:58	LW	7.2	375	0	#N/A	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	14:25	ML, OR,KK	6.3	723	0	#N/A	140	340
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	15:38	ML, Avalak	7.3	1010	0.023	#N/A	97	297
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	11:28	ML, JK	6.7	883	0.035	#N/A	153	353
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	14:27	OR, TM	7.5	1315	0.0119	1.73	195	395
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	9:45	OR	7.4	1719	0.0182	2.57	181	381
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	13:30	KK, AP	6.6	282	0	19.2	90	290
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	14:35	CM	6.9	635	N/A	20.2	85	285
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	10:00	AP	6.5	997	N/A	9	86	286
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	11:18	AP and CM	7.2	978	0.01	8.5	105	305
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	9:15	AP and JL	6.3	1228	N/A	5.1	160	360
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05		AS	#N/A	713	?	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	9:30	AS	6.5	523	<0.017	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	10:15	AS	6.1	780	0	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	16:40	AS	6.4	689	0	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	10:25	OR,KK	6.6	259	0	#N/A	65	265
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	11:40	KK, AP	6.5	74	0	16.8	65	265
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	13:51	CM	6.3	478	N/A	12.5	28	228
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	9:40	AP	6.0	728	N/A	78	85	285
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	14:40	AP	6.0	1060	N/A	4.1	144	344
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	9:10	ML, OR,KK	6.4	264	0	#N/A	51	251
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	11:20	ML, OR,KK	7.0	268	0	#N/A	64	264
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	10:00	AS	5.9	365	?	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	9:40	AS	5.4	420	?	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	16:20	AS	5.9	516	0	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	10:05	KK/LW	6.8	122	0	#N/A	92	292
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	15:18	LW	6.2	205	0	#N/A	191	391
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	15:17	OR, ML, KK	6.4	139	0	#N/A	93	293
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	8:15	or, kk	4.9	1098	0	8	333	533
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	10:47	KK, AP	6.5	87	0	28.4	21	221
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	8:23	CM	6.3	136	N/A	26.03	85	285
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	9:03	AP	5.6	200	N/A	13.7	106	306
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	14:05	AP	4.6	1069	N/A	10.2	157	#N/A
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	9:30	or, kk	5.9	419	0	#N/A	162	362
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	10:10	or, kk	4.3	621	0	5.6	407	607
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	11:29	or,kk	6.4	182	0	3.8	195	395
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	15:00	AS	6.5	270	?	#N/A	#N/A	#N/A

							Field	Field	Field		Field	Field
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Time (24hr)	Sampled by	pH	EC	Flow	DO	ORP	ORP (Eh)
Units							pH units	uS/cm	L/s	mg/L	mV	mV
DL												
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	10:00	AS	7.3	227	?	#N/A	#N/A	#N/A
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	16:00	KK/LW	6.7	89	0.37	#N/A	135	335
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	20:18	LW	6.3	199	0.108	8.4	#N/A	#N/A
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	13:24	OR, KK	6.2	163	0.03	#N/A	163	363
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	14:15	KK/LW	6.7	56	0.021	#N/A	127	327
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	16:20	OR, KK	6.8	55	0.0141	#N/A	108	308
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	14:14	OR, ML	6.2	68	0.0169	#N/A	126	326
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	8:45	AS	7.4	670	?	#N/A	#N/A	#N/A
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	15:33	LW	7.6	572	0	#N/A	#N/A	#N/A
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	10:25	KK/LW	7.7	135	0.1	#N/A	170	370
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	14:30	KK/LW	7.7	135	0.067	#N/A	164	364
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	13:52	LW	7.3	275	0.31	#N/A	#N/A	#N/A
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	13:38	OR, KK	7.2	285	0.0006	#N/A	11.4	211.4
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	19:30	KK/LW	7.0	210	0.08	#N/A	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	16:53	LW	6.9	395	0.054	#N/A	165	365
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	14:40	LW	6.9	515	0.082	3.7	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	10:45	LW	7.1	467	0.553	7.6	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	14:11	LW	7.1	324	0.215	#N/A	459	659
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	14:54	LW	6.9	506	0.406	7.7	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	16:10	ML, OR, KK	6.7	249	0.2613	#N/A	125	325
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	16:16	OR, ML	6.5	281	0.1125	#N/A	135	335
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	13:34	RE, ML	7.1	498	0.27	4.3	137	337
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	15:30	KK, AP	6.9	112	1.39	26.3	87	287
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	9:25	CM, AP	7.1	233	0.4	27.2	112	312
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	14:35	AP	7.11	321	0.56	11.6	81	281
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	7:50	AP	6.6	553	N/A	10.2	153	353
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	10:55	AP	6.9	634	0.44	11.3	169	369
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	19:10	LW	7.2	380	0.197	#N/A	167	367
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	13:59	LW	7.2	482	0.086	7	#N/A	#N/A
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	13:51	LW	7.4	455	0.529	9.4	#N/A	#N/A
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	16:55	LW	7.3	337	0.262	#N/A	332	532
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	13:51	LW	7.3	464	0.236	9.7	#N/A	#N/A
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	17:40	OR, ML	7.1	222	0.0799	#N/A	120	320
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	16:55	OR, ML	6.9	274	0.1845	#N/A	129	329
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	14:25	RE, ML	7.5	460	0.17	6.4	119	319
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	9:40	LW	7.3	297	0.28	#N/A	#N/A	#N/A
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	13:49	ML, OR, KK	7.2	866	0.007	#N/A	95	295
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	0.6944	KK, AP	7.0	472	0.34	28.4	100	300

						Field	Field		Field	Field	Field	
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Time (24hr)	Sampled by	pH	EC	Flow	DO	ORP	ORP (Eh)
Units							pH units	uS/cm	L/s	mg/L	mV	mV
DL												
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	0.5833	CM, AP	7.2	753	0.01	17.2	134	334
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	16:55	KK/LW	7.6	43	0.262	#N/A	#N/A	#N/A
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	16:00	ML, OR	7.3	289	0.0125	#N/A	94	294
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	20:15	AS	7.6	240	0	#N/A	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	17:45	AS	7.6	209	0	#N/A	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05		AS	7.6	259	0	#N/A	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	11:30	LW	7.9	220	0	#N/A	178	378
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	0.4569	CM, AP	7.5	214	0	23.9	79	279
ULU-4a		Portal Pond	Portal pond area	2024-07-30	0.4632	CM	7.4	272	N/A	12.7	91	291
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	0.566	AP	6.7	288	N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	0.4701	CM, AP	7.5	308	0	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	0.6368	CM	7.3	340	N/A	17.6	69	269
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.4236	AP	6.8	190	0	24.4	82	282
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	9:35	KK/LW	7.6	196	0.139	#N/A	152	352
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	14:20	KK/LW	7.8	263	0.116	#N/A	152	352
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	14:12	LW	8.0	290	1.04	#N/A	#N/A	#N/A
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	11:25	OR, KK	7.2	507	0.0052	#N/A	114	314
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	15:30	AS	7.1	370	?	#N/A	#N/A	#N/A
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	15:35	KK/LW	7.6	103	1.7	#N/A	152	352
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	17:51	LW	8.1	104	0.89	#N/A	#N/A	#N/A
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	10:15	OR, ML, KK	7.6	210	0.0222	#N/A	89	289
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	9:10	AS	7.7	557	0.033	#N/A	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	20:49	LW	7.9	492	0.023	#N/A	151	351
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	18:00	LW	7.8	560	0.064	7	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	10:00	LW	8.5	586	1.535	#N/A	267	467
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	16:46	LW	7.6	646	0.427	1.71	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	15:05	OR, ML, KK	7.2	434	0.07	#N/A	105	305
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	13:15	OR, JB	7.8	621	0.1401	2.21	188	388
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	0.6361	KK, AP	6.7	118	0.99	32.5	125	325
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	0.441	CM, AP	7.2	278	0.18	21.3	114	314
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	0.5729	AP	7.2	423	0.13	18.8	80	280
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	9:20	ML, OR, KK	7.0	413	0.0675	#N/A	129	329
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	9:15	AS	7.4	400	0.033	#N/A	#N/A	#N/A
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	9:38	KK/LW	7.5	95	0.418	#N/A	140	340
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	9:25	LW	7.2	284	0.009	#N/A	150	350

							Field	Field		Field	Field	Field
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Time (24hr)	Sampled by	pH	EC	Flow	DO	ORP	ORP (Eh)
Units							pH units	uS/cm	L/s	mg/L	mV	mV
DL												
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	19:37	LW	7.4	278	0.089	8.7	#N/A	#N/A
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	8:45	LW	6.7	268	0.205	#N/A	226	426
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	15:18	LW	6.9	407	0.065	1.85	#N/A	#N/A
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	10:35	ML, OR, KK	7.2	205	0.1731	#N/A	97	297
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	13:52	KK, AP	6.3	66	1.74	24.6	120	320
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	13:23	CM, AP	7.3	108	0.71	22.6	110	310
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	13:15	AP	7	188	0.29	14	80	280
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	10:10	AP	6.8	419	0.07	13.8	187	387
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	9:30	AS	7.9	328	0.05	#N/A	#N/A	#N/A
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	11:00	KK/LW	7.1	179	0.905	#N/A	140	340
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	9:55	LW	6.6	485	0.008	#N/A	242	442
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	17:37	OR, KK	6.9	338	0.384	#N/A	99	299
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	14:38	KK/LW	7.0	76	0.092	#N/A	126	326
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	10:50	LW	6.8	223	0.149	#N/A	181	381
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	14:30	LW	6.8	326	0.048	1.73	#N/A	#N/A
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	16:48	ML, OR, KK	7.2	177	0.087	#N/A	103	303
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	13:00	LW+IL	6.9	47	0.372	#N/A	#N/A	#N/A
Ref-03		Camp impacted background		2023-06-13	8:40	ML, OR, KK	6.7	75	0.109	#N/A	121	321
Ref-03		Camp impacted background		2023-07-03	10:26	ML, JK	6.6	97	0.078	#N/A	122	322
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	10:10	LW	6.7	23	0.1	#N/A	204	404
Ref-06		Background		2023-06-13	10:30	ML, OR, KK	6.4	20	0.202	#N/A	116	316
Ref-06		Background		2023-07-03	8:30	ML, JK	6.7	32	0.117	#N/A	120	320
Notes												
Renamed ID's												
Italics <DL												
Calculated from other value												

Lab Data													
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Lab pH	Lab Conductivity	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (pH 4.5)	Acidity (pH 8.3)	Alkalinity (Total as CaCO3)	Alkalinity (PP as CaCO3)
Units					pH units	uS/cm	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L
DL						2	10	1	0.1	1	1	1	1
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	#N/A	927	585	7.3		#N/A	#N/A	39.4	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	7.12	728	515	#N/A	0.57	#N/A	#N/A	34.9	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	#N/A	1390	1020	5.3	0.35	#N/A	#N/A	34.9	#N/A
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	7.2	375	220	2.6	0.86	1	5.4	20	1
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	6.3	690	610	2.2	0.89	1	4.7	23	1
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	7.27	1000	850	1	0.16	1	5	32	1
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	6.74	880	760	1	0.17	1	5.6	33	1
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	7.45	990	760	4.1	0.15	1	9.1	35	1
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	7.37	910	710	1	1	1	5.4	37	1
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	7.05	190	140	33	3.9	#N/A	#N/A	22	1
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	6.61	610	400	9.1	1.6	1	2.7	20	1
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	6.75	1000	760	10	2.4	1	2.8	33	1
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	6.78	950	670	1	1.5	1	3.1	36	1
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	6.46	1200	800	1	0.12	1	9.1	27	1
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	7.33	713	598	3	#N/A	#N/A	4.9	20.9	#N/A
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	#N/A	523	370	#N/A	#N/A	#N/A	#N/A	13.7	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	6.82	578	409	#N/A	0.69	#N/A	#N/A	13.2	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	#N/A	740	523	#N/A	#N/A	#N/A	#N/A	29.7	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	6.56	200	120	1.2	1.4	1	7.9	14	1
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	6.83	60	60	5.1	3.1	1	2.5	6.4	1
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	6.38	470	160	1.1	1.5	1	3.2	15	1
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	6.45	750	540	5.7	3.5	1	4.6	13	1
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	6.6	1100	850	16	12	1	20	33	1
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	6.4	240	170	1.4	2.3	1	21.5	40	1
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	6.98	250	160	1.5	1.3	1	5.5	33	1
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	#N/A	365	258	#N/A	#N/A	#N/A	#N/A	2	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	5.52	283	200	#N/A	11.7	#N/A	#N/A	2	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	#N/A	474	335	#N/A	#N/A	#N/A	#N/A	6.1	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	6.54	130	100	10	8.3	1	2.5	4.3	1
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	5.74	210	130	0.99	0.76	1	3.4	3.6	1
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	6.41	130	76	1	2.5	1	2.6	3.9	1
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	4.85	1100	810	3.6	4.5	1	65.9	1	1
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	6.47	63	56	2.9	4.5	1	5.7	3.6	1
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	6.27	120	60	1	2.1	1	2.5	2.8	1
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	5.69	260	180	1.5	1.4	1	6.7	1.1	1
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	4.35	1100	870	1	0.13	1	83.6	1	1
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	5.93	420	260	1	0.19	1	12.4	9.2	1
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	4.26	620	360	8.6	0.26	1	48.4	1	1
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	6.41	190	88	7.3	3.6	1	5.3	35	1
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	#N/A	214	151	#N/A	#N/A	#N/A	#N/A	6.1	#N/A

Lab Data													
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Lab pH	Lab Conductivity	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (pH 4.5)	Acidity (pH 8.3)	Alkalinity (Total as CaCO3)	Alkalinity (PP as CaCO3)
Units					pH units	uS/cm	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L
DL						2	10	1	0.1	1	1	1	1
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	#N/A	198	140	#N/A	#N/A	#N/A	#N/A	7.3	#N/A
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	6.56	91	56	1	0.5	1	2.1	4	1
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	6.42	200	150	1	0.22	1	2.8	5.3	1
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	6.2	150	160	1	0.96	1	1.5	4.5	1
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	6.55	61	92	3.4	0.33	1	3	5.7	1
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	6.84	51	48	1	1.4	1	1.2	5.4	1
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	6.16	66	88	1.3	0.12	1	1	5.4	1
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	#N/A	471	333	#N/A	#N/A	#N/A	#N/A	68.7	#N/A
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	7.09	600	400	2.4	0.31	1	3.4	74	1
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	7.56	150	88	6.5	3	1	2.6	33	1
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	7.37	150	110	1.3	2	1	2.4	30	1
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	7.22	290	180	1.2	2.1	1	1.7	39	1
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	7.21	270	280	1	0.67	1	4.5	57	1
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	6.93	200	140	1	0.75	1	3	26	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	6.71	370	220	1	0.31	1	5	55	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	7.46	510	320	1	0.17	1	8.8	60	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	6.8	370	180	10	0.37	1	2.1	55	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	6.52	310	200	0.96	0.28	1	4.2	35	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	7.01	500	340	1	0.37	1	6.2	53	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	6.67	240	100	1	0.61	1	4.7	32	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	6.46	290	210	1	0.1	1	4.4	38	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	7.08	490	360	1	0.1	1	9.5	59	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	6.67	84	76	1	0.96	1	1	9	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	6.54	220	170	2.1	0.15	1	1	40	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	6.99	320	200	2.1	0.15	1	2.3	42	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	7.26	550	340	33	12	1	11.7	80	1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	6.64	630	410	22	7.3	1	3.9	77	1
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	6.8	370	180	10	0.37	1	2.1	55	1
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	6.66	470	310	5.9	0.78	1	4.8	55	1
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	7.27	440	310	1	0.31	1	2.5	52	1
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	7.31	337	210	5.5	2.2	1	2.3	32	1
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	6.94	450	300	5.2	1.1	1	2	46	1
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	7.11	220	230	3.2	0.89	1	2.4	31	1
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	6.87	280	180	0.99	0.26	1	2	37	1
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	7.47	460	320	1.9	0.11	1	7.3	68	1
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	7.41	280		4.7	2.9			51	1
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	7.17	830	670	2	2	#N/A	#N/A	130	1
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	7.9	360	220	2.5	2.8	#N/A	#N/A	80	1

Lab Data													
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Lab pH	Lab Conductivity	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (pH 4.5)	Acidity (pH 8.3)	Alkalinity (Total as CaCO3)	Alkalinity (PP as CaCO3)
Units					pH units	uS/cm	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L
DL						2	10	1	0.1	1	1	1	1
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	6.98	720	480	1.5	0.16	1	8.8	120	1
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	6.76	44	36	11	18	1	1	9.2	1
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	7.28	270	270	1	0.8	1	2	7.7	1
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	#N/A	#N/A	#N/A	3	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	#N/A	181	106	3	#N/A	#N/A	#N/A	22.7	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	7.29	229	151	3	#N/A	#N/A	#N/A	31.7	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	6.51	210	92	1	2	1	1.7	23	1
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	6.47	210	92	0.97	1.8	1	1	24	1
ULU-4a		Portal Pond	Portal pond area	2024-07-30	6.59	270	160	1	1.8	1	2.7	31	1
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	6.83	240	180	1.7	2	1	1	19	1
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	7.55	340	170	1	0.1	1	1.4	42	1
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	6.62	140	88	2.8	4	1	1.8	22	1
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	7.19	200	360	94	27	1	2.5	21	1
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	7.42	270	240	2.3	8.1	1	2	33	1
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	6.69	290	200	2.6	4.2	1	1.3	35	1
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	7.23	460	290	38	7.6	1	3.9	74	1
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	#N/A	307	186	3.4	#N/A	#N/A	#N/A	59	#N/A
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	7.14	110	180	5	3.7	1	1.7	25	1
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	6.63	110	68	1.7	3.7	1	1	22	1
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	7.62	190	140	29	8.7	1	1.7	37	1
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	#N/A	557	375	3	#N/A	#N/A	#N/A	45.3	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	6.92	460	270	1.3	0.46	1	1.5	59	1
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	6.95	530	360	1	0.85	1	2.1	45	1
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	6.83	550	370	4.1	5.1	1	1.6	50	1
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	7.31	630	400	1	0.8	1	1.8	56	1
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	7.2	400	260	4.4	4.3	1	3.9	38	1
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	7.75	590	400	1	0.13	1	2.8	73	1
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	7.11	120	68	15	15	-1	1.1	18	-1
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	6.76	270	160	4.3	2.6	-1	-1	48	-1
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	7.24	430	270	2.2	3.4	-1	1.7	49	-1
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	7.04	370	300	1	1.4	1	3	30	1
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	#N/A	281	199	#N/A	#N/A	#N/A	#N/A	30.4	#N/A
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	6.95	98	100	1	0.39	1	1.3	12	1
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	6.48	280	140	1	0.46	1	2.3	18	1

Lab Data													
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Lab pH	Lab Conductivity	Total Dissolved Solids	Total Suspended Solids	Turbidity	Acidity (pH 4.5)	Acidity (pH 8.3)	Alkalinity (Total as CaCO3)	Alkalinity (PP as CaCO3)
Units					pH units	uS/cm	mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L
DL						2	10	1	0.1	1	1	1	1
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	6.58	280	260	1	0.55	1	2.3	15	1
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	6.09	260	180	1	0.23	1	3.9	12	1
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	6.54	390	260	1	1.2	1	2.4	14	1
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	7.23	190	180	1	0.54	1	2.4	4.3	1
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	6.81	63	36	1	1.2	1	1	10	1
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	6.66	100	68	1	1.1	1	1	32	1
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	6.78	190	130	1	0.98	1	1.7	14	1
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	6.19	410	250	3.1	7.5	1	2.9	16	1
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	#N/A	279	197	#N/A	#N/A	#N/A	#N/A	30.1	#N/A
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	7.12	180	160	1	0.39	1	2	26	1
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	6.45	460	320	1	0.3	1	4.4	34	1
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	6.92	300	190	1	0.29	1	2.8	33	1
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	6.87	79	88	1	1.4	1	1.4	8.8	1
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	6.21	210	140	1.8	1.8	1	3	12	1
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	6.61	310	200	14	1.8	1	3.2	16	1
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	7.23	170	120	1	0.16	1	1.7	11	1
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	6.13	50	20	1.2	0.88	1	3.3	6.5	1
Ref-03		Camp impacted background		2023-06-13	6.66	69	64	1	0.11	1	5	7.8	1
Ref-03		Camp impacted background		2023-07-03	6.61	96	76	0.95	0.4	1	1	9.8	1
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	6.01	22	16	0.97	0.16	1	4.4	4.3	1
Ref-06		Background		2023-06-13	6.42	18	56	1	0.1	1	1	3.4	1
Ref-06		Background		2023-07-03	6.65	31	16	1	0.65	1	1	5.3	1
Notes													
Renamed ID's													
Italics <DL													
Calculated from other value													

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Nitrate	Dissolved Nitrate	Dissolved Nitrite	Dissolved Nitrite	Dissolved Nitrate plus Nitrite	Dissolved ortho- phosphate	Total Phosphorus	Total Ammonia
Units					NO3 mg/L	N mg/L	NO2 mg/L	N mg/L	N mg/L	mg/L	mg/L	N mg/L
DL					0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	#N/A	3.24	#N/A	0.029	3.27	#N/A	#N/A	2.43
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	#N/A	2.93	#N/A	0.029	2.96	#N/A	#N/A	1.92
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	#N/A	10.6	#N/A	0.059	10.6	#N/A	#N/A	1.58
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	0.79	0.18	#N/A	0.01	0.18	#N/A	#N/A	0.015
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	1.4	0.32	0.033	0.01	0.32	#N/A	#N/A	0.015
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	4.1	0.92	0.042	0.013	0.94	#N/A	#N/A	0.3
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	2.9	0.65	0.033	0.01	0.65	#N/A	#N/A	0.037
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	4.8	1.1	0.033	0.01	1.1	#N/A	#N/A	0.54
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	6.4	1.4	0.033	0.01	1.4	#N/A	#N/A	0.76
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	0.94	0.21	0.033	0.01	0.21	#N/A	#N/A	0.019
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	2.2	0.5	0.033	0.01	0.5	#N/A	#N/A	0.015
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	6.4	1.5	0.033	0.01	1.5	#N/A	#N/A	0.015
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	7.9	1.8	0.036	0.011	1.8	#N/A	#N/A	0.94
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	33	7.4	0.2	0.062	7.4	#N/A	#N/A	0.36
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	#N/A	0.368	#N/A	0.002	#N/A	#N/A	#N/A	0.0502
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	#N/A	0.528	#N/A	0.01	0.528	#N/A	#N/A	0.0159
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	#N/A	0.974	#N/A	0.01	0.974	#N/A	#N/A	0.0766
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	0.046	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.016
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	1.8	0.4	0.033	0.01	0.4	#N/A	#N/A	0.056
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	#N/A	0.476	#N/A	0.01	0.476	#N/A	#N/A	0.254
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	#N/A	0.673	#N/A	0.01	0.673	#N/A	#N/A	0.49
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	1.2	0.27	0.033	0.01	0.27	#N/A	#N/A	0.15
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	4.3	0.97	0.033	0.01	0.97	#N/A	#N/A	0.26
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	2.2	0.5	0.033	0.01	0.5	#N/A	#N/A	0.059
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	6.9	1.6	0.033	0.01	1.6	#N/A	#N/A	0.45
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	0.55	0.12	0.033	0.01	0.12	#N/A	#N/A	0.048
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	1.6	0.37	0.033	0.01	0.37	#N/A	#N/A	0.053
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	4.8	1.1	0.033	0.01	1.1	#N/A	#N/A	0.15
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	8.1	1.8	0.033	0.01	1.8	#N/A	#N/A	1.1
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	7.2	1.6	0.033	0.01	1.6	#N/A	#N/A	1.6
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.1	0.024	0.033	0.01	0.024	#N/A	#N/A	0.015
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Nitrate	Dissolved Nitrate	Dissolved Nitrite	Dissolved Nitrite	Dissolved Nitrate plus Nitrite	Dissolved ortho- phosphate	Total Phosphorus	Total Ammonia
Units					NO3 mg/L	N mg/L	NO2 mg/L	N mg/L	N mg/L	mg/L	mg/L	N mg/L
DL					0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	#N/A	0.049	#N/A	0.01	0.049	#N/A	#N/A	0.005
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	0.044	0.01	0.033	0.01	0.01			0.015
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	0.084	0.019	0.033	0.01	0.019			0.015
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.02
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	#N/A	0.454	#N/A	0.01	0.454	#N/A	#N/A	0.146
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	10	2.3	0.047	0.014	2.3	#N/A	#N/A	0.044
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	1.2	0.27	0.033	0.01	0.27			0.037
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	0.6	0.13	0.033	0.01	0.13			0.041
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	4.4	0.99	0.033	0.01	0.99	#N/A	#N/A	0.015
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	4.3	0.98	0.033	0.01	0.98	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	1.5	0.34	0.033	0.01	0.34			0.018
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	3.7	0.84	0.033	0.01	0.84	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	4.8	1.1	0.033	0.01	1.1	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	1.3	0.29	0.033	0.01	0.29	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	2.2	0.49	0.033	0.01	0.49	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	4.4	0.99	0.033	0.01	0.99	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	2.2	0.5	0.033	0.01	0.5	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	2.5	0.57	0.033	0.01	0.57	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	19	4.2	0.33	0.099	4.3	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	0.27	0.061	0.033	0.01	0.061	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	3	0.68	0.033	0.01	0.68	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	4.9	1.1	0.033	0.01	1.1	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	7.7	1.7	0.033	0.01	1.7	#N/A	#N/A	0.015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	8.1	1.8	0.033	0.01	1.8	#N/A	#N/A	0.084
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	1.3	0.29	0.033	0.01	0.29	#N/A	#N/A	0.015
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	1.7	0.39	0.033	0.01	0.39	#N/A	#N/A	0.015
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	2.6	0.58	0.033	0.01	0.58	#N/A	#N/A	0.015
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	1.3	0.29	0.033	0.01	0.29	#N/A	#N/A	0.015
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	0.11	0.024	0.033	0.01	0.024	#N/A	#N/A	0.015
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	0.83	0.19	0.033	0.01	0.19	#N/A	#N/A	0.015
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	1.1	0.25	0.033	0.01	0.25	#N/A	#N/A	0.015
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	0.14	0.032	0.033	0.01	0.032	#N/A	#N/A	0.015
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	1.2	0.27	0.033	0.01	0.27			0.016
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	2.4	0.53	0.076	0.023	0.56	#N/A	#N/A	0.24
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	1.5	0.33	0.033	0.01	0.33	#N/A	#N/A	0.024

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Nitrate	Dissolved Nitrate	Dissolved Nitrite	Dissolved Nitrite	Dissolved Nitrate plus Nitrite	Dissolved ortho- phosphate	Total Phosphorus	Total Ammonia
Units					NO3 mg/L	N mg/L	NO2 mg/L	N mg/L	N mg/L	mg/L	mg/L	N mg/L
DL					0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	4.3	0.96	0.033	0.01	0.96	#N/A	#N/A	0.03
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	0.43	0.098	0.033	0.01	0.098			0.015
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	0.62	0.14	0.033	0.01	0.14	#N/A	#N/A	0.015
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	#N/A	0.415	#N/A	0.01	0.415	#N/A	#N/A	0.114
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	2.2	0.49	0.033	0.01	0.49	#N/A	#N/A	0.015
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	1.5	0.34	0.033	0.01	0.34	#N/A	#N/A	0.015
ULU-4a		Portal Pond	Portal pond area	2024-07-30	2	0.46	0.033	0.01	0.46	#N/A	#N/A	0.015
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	0.58	0.13	0.033	0.01	0.13	#N/A	#N/A	0.015
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	1.3	0.29	0.033	0.01	0.29	#N/A	#N/A	0.015
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.38	0.086	0.033	0.01	0.086	#N/A	#N/A	0.015
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	0.86	0.19	0.033	0.01	0.19			0.015
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	1.6	0.36	0.033	0.01	0.36			0.031
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	1.2	0.27	0.033	0.01	0.27	#N/A	#N/A	0.015
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	3.7	0.83	0.033	0.01	0.83	#N/A	#N/A	0.015
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	#N/A	0.366	#N/A	0.01	0.366	#N/A	#N/A	0.005
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	0.13	0.03	0.033	0.01	0.03			0.018
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.14	0.031	0.033	0.01	0.031	#N/A	#N/A	0.015
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.46	0.1	0.033	0.01	0.1	#N/A	#N/A	0.015
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	#N/A	2.74	#N/A	0.01	2.74	#N/A	#N/A	0.116
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	6.6	1.5	0.033	0.01	1.5	#N/A	#N/A	0.015
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	9.1	2.1	0.033	0.01	2.1	#N/A	#N/A	0.015
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	8.1	1.8	0.033	0.01	1.8	#N/A	#N/A	0.022
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	7.4	1.7	0.033	0.01	1.7	#N/A	#N/A	0.015
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	2.7	0.62	0.033	0.01	0.62	#N/A	#N/A	0.015
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	8.2	1.9	0.033	0.01	1.9	#N/A	#N/A	0.015
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	0.73	0.17	-0.033	-0.01	0.17	#N/A	#N/A	-0.015
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	2.2	0.5	-0.033	-0.01	0.5	#N/A	#N/A	-0.015
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	4.6	1	-0.033	-0.01	1	#N/A	#N/A	-0.015
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	3.1	0.71	0.033	0.01	0.71	#N/A	#N/A	0.015
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	#N/A	0.668	#N/A	0.01	0.668	#N/A	#N/A	0.184
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	0.044	0.01	0.033	0.01	0.01			0.015
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	3.3	0.75	0.033	0.01	0.75	#N/A	#N/A	0.015

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Nitrate	Dissolved Nitrate	Dissolved Nitrite	Dissolved Nitrite	Dissolved Nitrate plus Nitrite	Dissolved ortho- phosphate	Total Phosphorus	Total Ammonia
Units					NO3 mg/L	N mg/L	NO2 mg/L	N mg/L	N mg/L	mg/L	mg/L	N mg/L
DL					0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	3.7	0.83	0.033	0.01	0.83	#N/A	#N/A	0.015
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	0.21	0.046	0.033	0.01	0.046	#N/A	#N/A	0.015
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	2.7	0.61	0.033	0.01	0.61	#N/A	#N/A	0.015
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	0.24	0.054	0.033	0.01	0.054	#N/A	#N/A	0.015
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	0.051	0.012	0.033	0.01	0.012	#N/A	#N/A	0.015
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	0.049	0.011	0.033	0.01	0.011	#N/A	#N/A	0.015
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	10	2.4	0.033	0.01	2.4	#N/A	#N/A	0.015
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	#N/A	1.63	#N/A	0.01	1.63	#N/A	#N/A	0.0535
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.76	0.17	0.033	0.01	0.17			0.015
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	5	1.1	0.033	0.01	1.1	#N/A	#N/A	0.015
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	2	0.45	0.033	0.01	0.45	#N/A	#N/A	0.015
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.25	0.057	0.033	0.01	0.057			0.015
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.52	0.12	0.033	0.01	0.12	#N/A	#N/A	0.015
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	0.61	0.14	0.033	0.01	0.14	#N/A	#N/A	0.015
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.31	0.071	0.033	0.01	0.071	#N/A	#N/A	0.018
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Ref-03		Camp impacted background		2023-06-13	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Ref-03		Camp impacted background		2023-07-03	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Ref-06		Background		2023-06-13	0.044	0.01	0.033	0.01	0.01	#N/A	#N/A	0.015
Ref-06		Background		2023-07-03	0.23	0.052	0.033	0.01	0.052	#N/A	#N/A	0.015
Notes												
Renamed ID's												
Italics <DL												
Calculated from other value												

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Bromide (Br)	Dissolved Fluoride (F)	Dissolved Chloride (Cl)	Dissolved Sulphate (SO4)	Bicarbonate (HCO3)	Carbonate (CO3)	Hydroxide (OH)	Total Hardness (CaCO3)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.01	0.05	1	1	1	1	1	0.5
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	0.1	0.13	91.7	289	#N/A	#N/A	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	0.1	0.122	67.2	261	#N/A	#N/A	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	0.1	0.11	219	379	#N/A	#N/A	#N/A	#N/A
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	0.019	0.14	9.4	120	24	1	1	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	0.029	0.12	13	290	28	1	1	288
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	0.12	0.15	2.8	490	39	1	1	642
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	0.072	0.15	7.7	390	40	1	1	426
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	0.13	0.16	6	480	42	1	1	442
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	0.068	0.17	13	410	45	1	1	413
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	#N/A	0.16	9.1	59	26	1	1	61.9
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	0.036	0.13	26	230	25	1	1	249
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	0.05	0.19	31	370	40	1	1	437
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	0.051	0.16	21	400	44	1	1	426
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	0.042	0.16	110	380	33	1	1	385
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	0.05	0.185	1.97	329	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	0.1	0.151	0.9	239	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	0.1	0.166	1.46	286	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	0.1	0.148	6.65	317	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	0.013	0.13	1	79	17	1	1	85.5
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	0.01	0.05	1	17	7.8	1	1	22.8
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	0.025	0.11	2.2	210	19	1	1	212
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	0.037	0.19	2.4	340	16	1	1	336
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	0.02	0.24	3.8	530	40	1	1	556
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	0.01	0.087	1	82	48	1	1	118
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	0.016	0.13	4.2	82	40	1	1	110
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	0.1	0.176	1.4	178	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	0.1	0.131	3.72	142	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	0.1	0.052	33.5	156	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	0.013	0.053	2.1	41	5.3	1	1	52.5
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	0.027	0.1	5.1	73	4.4	1	1	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	0.011	0.076	1.2	47	4.8	1	1	48.3
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	0.063	0.66	6.1	670	1	1	1	638
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	0.01	0.05	1	20	4.4	1	1	21.8
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	0.022	0.092	2.1	44	3.4	1	1	47.3
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	0.02	0.29	4.4	87	1.3	1	1	91.4
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	0.017	0.87	11	560	1	1	1	466
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.031	0.16	6.9	180	11	1	1	168
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.05	0.42	14	260	1	1	1	200
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.021	0.083	2.8	51	43	1	1	78.5
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	0.1	0.052	2.42	69	#N/A	#N/A	#N/A	#N/A

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Bromide (Br)	Dissolved Fluoride (F)	Dissolved Chloride (Cl)	Dissolved Sulphate (SO4)	Bicarbonate (HCO3)	Carbonate (CO3)	Hydroxide (OH)	Total Hardness (CaCO3)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.01	0.05	1	1	1	1	1	0.5
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	0.1	0.055	4.76	82	#N/A	#N/A	#N/A	#N/A
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	0.01	0.076	3.8	28	4.8	1	1	31.6
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	0.011	0.07	6.7	70	6.4	1	1	63.1
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	0.01	0.064	3.4	55	5.5	1	1	50.1
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	0.01	0.082	3.9	13	7	1	1	23.1
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	0.01	0.09	1	13	6.5	1	1	18.3
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	0.01	0.085	2.4	17	6.6	1	1	22.1
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	0.1	0.189	1.85	185	#N/A	#N/A	#N/A	#N/A
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	0.088	0.17	8.6	210	90	1	1	#N/A
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	0.02	0.1	1.8	33	40	1	1	63.3
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	0.01	0.099	1.4	37	36	1	1	62.2
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	0.017	0.15	2.7	93	47	1	1	#N/A
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	0.01	0.24	2.2	71	69	1	1	124
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	0.021	0.2	2.8	62	32	1	1	78.5
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	0.046	0.22	5.7	110	68	1	1	164
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	0.23	0.2	23	150	73	1	1	187
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	0.03	0.21	6.7	110	68	1	1	154
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	0.045	0.2	4.4	110	43	1	1	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	0.052	0.22	5.7	170	64	1	1	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	0.017	0.22	5	69	38	1	1	103
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	0.023	0.23	7.8	78	47	1	1	139
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	0.041	0.22	9.3	160	72	1	1	214
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	0.01	0.088	1	25	11	1	1	30.5
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	0.058	0.18	4.8	66	48	1	1	86.5
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	0.032	0.22	8.3	100	51	1	1	126
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	0.01	0.24	10	170	98	1	1	224
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	0.041	0.22	23	210	94	1	1	244
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	0.03	0.21	6.7	110	68	1	1	154
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	0.2	0.2	23	140	67	1	1	189
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	0.12	0.23	16	140	63	1	1	179
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	0.028	0.2	5.2	110	39	1	1	#N/A
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	0.034	0.19	6.2	160	56	1	1	#N/A
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	0.011	0.17	6.5	68	38	1	1	98.3
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	0.01	0.21	9.2	79	45	1	1	108
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	0.032	0.22	9.9	140	83	1	1	194
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23			8.9	74	63	1	1	110
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	#N/A	0.16	28	280	160	1	1	365
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	#N/A	0.28	3.7	94	98	1	1	153

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Bromide (Br)	Dissolved Fluoride (F)	Dissolved Chloride (Cl)	Dissolved Sulphate (SO4)	Bicarbonate (HCO3)	Carbonate (CO3)	Hydroxide (OH)	Total Hardness (CaCO3)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.01	0.05	1	1	1	1	1	0.5
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	0.077	0.17	13	240	150	1	1	302
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	0.01	0.05	1.2	7.9	11	1	1	19.8
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	0.37	0.18	53	32	9.3	1	1	92.4
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	#N/A	#N/A	13.3	41.6	#N/A	#N/A	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	0.1	0.082	16.3	41.4	#N/A	#N/A	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	0.1	0.063	18.6	55.2	#N/A	#N/A	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	0.07	0.11	20	43	28	1	1	64.6
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	0.12	0.093	20	53	29	1	1	64.3
ULU-4a		Portal Pond	Portal pond area	2024-07-30	0.084	0.12	27	53	38	1	1	84.4
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	0.086	0.05	3	78	23	1	1	89.3
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	0.015	0.11	3.4	110	51	1	1	155
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.01	0.071	1	43	27	1	1	60.7
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	0.014	0.11	3.3	62	26	1	1	80.6
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	0.016	0.11	2.9	78	41	1	1	119
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.018	0.14	1.3	100	42	1	1	#N/A
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.052	0.14	10	140	90	1	1	218
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	0.1	0.092	4.57	86	#N/A	#N/A	#N/A	#N/A
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	0.01	0.073	2.8	23	31	1	1	48.5
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.01	0.065	1	26	27	1	1	#N/A
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.01	0.091	2.7	53	46	1	1	86.2
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	0.1	0.19	55.1	154	#N/A	#N/A	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	0.054	0.22	14	140	72	1	1	187
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	0.072	0.26	29	170	55	1	1	192
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	0.073	0.15	43	160	61	1	1	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	0.12	0.2	41	180	68	1	1	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	0.054	0.13	18	120	47	1	1	160
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	0.063	0.17	26	180	89	1	1	249
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	0.011	0.095	2.8	31	22	-1	-1	44.9
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	0.064	0.13	13	75	59	-1	-1	107
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	0.068	0.18	20	140	60	-1	-1	168
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	0.04	0.12	20	110	37	1	1	158
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	0.1	0.097	8.18	116	#N/A	#N/A	#N/A	#N/A
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	0.01	0.072	2.1	27	15	1	1	41
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	0.027	0.097	6.2	96	22	1	1	101

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Bromide (Br)	Dissolved Fluoride (F)	Dissolved Chloride (Cl)	Dissolved Sulphate (SO4)	Bicarbonate (HCO3)	Carbonate (CO3)	Hydroxide (OH)	Total Hardness (CaCO3)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.01	0.05	1	1	1	1	1	0.5
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	0.026	0.097	6	98	18	1	1	88.9
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	0.027	0.063	4.2	99	15	1	1	#N/A
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	0.053	0.084	5.8	150	17	1	1	#N/A
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	0.016	0.08	3.2	64	5.3	1	1	80.3
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	0.01	0.05	1	17	12	1	1	23.5
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	0.01	0.079	1	34	39	1	1	38
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	0.028	0.074	2.4	66	17	1	1	68.3
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	0.036	0.11	16	130	20	1	1	134
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	0.1	0.166	26.2	70	#N/A	#N/A	#N/A	#N/A
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.017	0.15	3.7	53	31	1	1	76.7
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.068	0.17	38	130	42	1	1	#N/A
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.051	0.18	15	86	40	1	1	118
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.01	0.28	1.9	20	11	1	1	31.6
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.057	0.24	7.3	72	15	1	1	#N/A
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	0.09	0.25	13	100	19	1	1	#N/A
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.02	0.25	2.9	56	14	1	1	66.5
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	0.029	0.21	6.3	1	8	1	1	#N/A
Ref-03		Camp impacted background		2023-06-13	0.017	0.19	9.2	4	9.5	1	1	25.7
Ref-03		Camp impacted background		2023-07-03	0.029	0.24	19	4.9	12	1	1	35.8
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	0.01	0.13	1	3.5	5.2	1	1	#N/A
Ref-06		Background		2023-06-13	0.01	0.13	1	3.5	4.1	1	1	6.71
Ref-06		Background		2023-07-03	0.01	0.15	1	5.5	6.5	1	1	11.9
Notes												
Renamed ID's												
Italics <DL												
Calculated from other value												

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (As)	Total Barium (Ba)	Total Beryllium (Be)	Total Bismuth (Bi)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0005	0.00002	0.00002	0.00002	0.00001	0.000005	0.01	0.000005	0.05
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	0.0455	0.00039	0.00184	0.0269	0.0001	0.00005	0.0481	0.000174	80.8
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	0.0216	0.00028	0.00175	0.041	0.0001	0.00005	0.0509	0.000525	135
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	0.0968	0.000234	0.00174	0.00761	0.00001	0.000005	0.02	0.0000732	42.7
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	0.0255	0.000199	0.000803	0.0147	0.00001	0.000005	0.054	0.0000477	96.4
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	0.126	0.00058	0.00238	0.0189	0.00001	0.000005	0.072	0.00052	228
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	0.0282	0.000368	0.00112	0.0164	0.00001	0.000005	0.06	0.00014	144
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	0.117	0.000495	0.00233	0.0186	0.00001	0.00001	0.068	0.000233	148
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	0.0234	0.000437	0.00245	0.0183	0.00001	0.000005	0.071	0.000177	140
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	0.0989	0.000166	0.00171	0.00467	0.00001	0.00001	0.021	0.000047	21.2
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	0.0199	0.0002	0.00105	0.00917	0.00001	0.000005	0.028	0.0000142	80.6
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	0.0521	0.000333	0.00205	0.0219	0.00001	0.00001	0.084	0.0000528	167
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	0.0323	0.00044	0.0018	0.0193	0.00005	0.000025	0.072	0.000216	137
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	0.0298	0.00038	0.00189	0.0284	0.000015	0.000005	0.078	0.00031	130
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	0.0425	0.0001	0.00057	0.0275	0.0001	0.00005	0.104	0.0000391	105
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	0.0347	0.000024	0.000274	0.00995	0.00001	0.000005	0.057	0.0000214	26.6
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	0.092	0.00002	0.000281	0.00497	0.00001	0.0000066	0.014	0.0000249	6.63
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	0.0108	0.000035	0.000646	0.018	0.00001	0.00001	0.149	0.0000253	61.9
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	0.0182	0.000044	0.000944	0.03	0.000016	0.00001	0.186	0.0000364	113
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	0.0119	0.000045	0.000875	0.0311	0.00001	0.000005	0.119	0.0000066	180
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	0.0962	0.000033	0.00083	0.024	0.000012	0.000005	0.01	0.0000171	37.3
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	0.0335	0.000137	0.000173	0.00805	0.00001	0.000005	0.019	0.0000141	34.8
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	0.344	0.000029	0.000317	0.008	0.000024	0.000005	0.016	0.0000467	17.1
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	0.128	0.000027	0.000062	0.00785	0.000037	0.000005	0.036	0.000115	24.4
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	0.19	0.00002	0.000151	0.00643	0.000025	0.000005	0.015	0.000052	15.6
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	8.21	0.000058	0.00002	0.0387	0.000976	0.000005	0.088	0.000584	209
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	0.208	0.000022	0.000193	0.00691	0.000023	0.000005	0.012	0.0000304	6.95
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	0.219	0.00002	0.00002	0.0055	0.000039	0.0000053	0.022	0.0000619	14.9
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	0.592	0.000022	0.00002	0.0131	0.000111	0.000005	0.039	0.000179	26.4
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	13.1	0.000049	0.00002	0.0538	0.00129	0.000005	0.133	0.00086	164
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.044	0.000057	0.000208	0.0274	0.000019	0.000005	0.058	0.0000698	51.4
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	4.77	0.00002	0.000101	0.023	0.000738	0.00001	0.055	0.000623	59.3
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0177	0.000035	0.000428	0.0156	0.00001	0.000005	0.012	0.0000102	21.4
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (As)	Total Barium (Ba)	Total Beryllium (Be)	Total Bismuth (Bi)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0005	0.00002	0.00002	0.00002	0.00001	0.000005	0.01	0.000005	0.05
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	0.055	0.00002	0.000123	0.00687	0.00001	0.000005	0.011	0.000005	9.11
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	0.0358	0.00002	0.000115	0.0163	0.000011	0.000005	0.014	0.0000222	18.3
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	0.108	0.00002	0.000136	0.0145	0.00001	0.000005	0.01	0.0000061	14.5
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	0.0562	0.00002	0.000153	0.00859	0.00001	0.000005	0.013	0.000005	7.26
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	0.08	0.00002	0.000168	0.0098	0.000016	0.000005	0.01	0.000005	5.66
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	0.0562	0.00002	0.000154	0.00994	0.000021	0.000005	0.014	0.000005	6.83
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	0.0197	0.000715	0.00122	0.0239	0.00001	0.000005	0.044	0.0000108	99.4
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	0.222	0.000147	0.000789	0.012	0.00001	0.0000103	0.025	0.000028	21
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	0.101	0.000329	0.000503	0.00844	0.00001	0.000005	0.016	0.0000168	20.6
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	0.207	0.000278	0.000983	0.0174	0.000014	0.000005	0.112	0.0000254	41.7
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	0.0232	0.000342	0.000506	0.0179	0.00001	0.000005	0.029	0.000012	41.1
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	0.0882	0.000207	0.00022	0.00732	0.00001	0.000005	0.019	0.0000085	25.7
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	0.0204	0.000339	0.000236	0.0166	0.00001	0.000005	0.037	0.0000142	52.9
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	0.0132	0.000283	0.000218	0.0176	0.00001	0.000005	0.031	0.0000264	62.2
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	0.129	0.000227	0.000502	0.0192	0.000029	0.0000055	0.03	0.0000568	49.1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	0.011	0.000276	0.000191	0.0121	0.00001	0.000005	0.028	0.0000147	43.3
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	0.0267	0.000443	0.000346	0.0214	0.00001	0.000005	0.034	0.0000188	74.8
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	0.0163	0.000275	0.000368	0.0102	0.00001	0.000005	0.026	0.0000108	33.1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	0.0105	0.000319	0.000425	0.0117	0.00001	0.000005	0.027	0.0000105	47
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	0.00976	0.000728	0.000518	0.0218	0.00001	0.000005	0.04	0.0000228	72
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	0.0393	0.000155	0.000519	0.00383	0.00001	0.000005	0.014	0.0000138	10.6
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	0.0173	0.000247	0.000369	0.00701	0.00001	0.000005	0.022	0.0000065	28
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	0.216	0.000389	0.000852	0.0126	0.000017	0.00001	0.037	0.0000235	41.5
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	0.436	0.000573	0.00115	0.0242	0.000028	0.000013	0.048	0.0000331	74.7
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	0.0234	0.000493	0.000477	0.0231	0.00001	0.000005	0.05	0.0000234	84
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	0.129	0.000227	0.000502	0.0192	0.000029	0.0000055	0.03	0.0000568	49.1
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	0.0387	0.000178	0.000288	0.0176	0.00001	0.00001	0.03	0.0000241	63.5
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	0.0163	0.00024	0.000239	0.0148	0.00001	0.00001	0.03	0.0000199	60.3
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	0.0139	0.000267	0.000184	0.0134	0.00001	0.00001	0.032	0.0000117	50.3
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	0.0164	0.000202	0.000286	0.0189	0.00001	0.00001	0.028	0.0000073	64.3
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	0.0121	0.000235	0.000172	0.00893	0.00001	0.000005	0.024	0.0000051	32
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	0.0224	0.000235	0.000244	0.00888	0.000028	0.000005	0.023	0.0000186	35.9
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	0.0116	0.000209	0.000307	0.0197	0.00001	0.000005	0.031	0.0000092	64.6
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	0.0681	0.000278	0.000593	0.0225	0.00001	0.000005	0.029	0.000218	35.5
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	0.0216	0.000571	0.00133	0.0406	0.00001	0.000005	0.188	0.000467	123
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	0.053	0.000708	0.000667	0.0323	0.000014	0.000005	0.047	0.00006	51.7

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (As)	Total Barium (Ba)	Total Beryllium (Be)	Total Bismuth (Bi)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0005	0.00002	0.00002	0.00002	0.00001	0.000005	0.01	0.000005	0.05
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	0.00662	0.000244	0.00093	0.0267	0.00001	0.000005	0.166	0.00017	102
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	1.23	0.000201	0.0603	0.00821	0.000056	0.0000685	0.01	0.0000315	6.15
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	0.0537	0.000106	0.00448	0.0213	0.00001	0.000005	0.016	0.000033	28.5
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	0.0959	0.00028	0.00313	0.0121	0.0001	0.00005	0.0088	0.0000827	17.6
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	0.0419	0.00031	0.00255	0.012	0.0001	0.00005	0.0104	0.0000628	18.1
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	0.0452	0.0004	0.00369	0.0163	0.0001	0.00005	0.0099	0.0000806	25
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	0.144	0.00029	0.00325	0.0144	0.000012	0.0000072	0.018	0.0000881	19.3
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	0.0882	0.000117	0.000957	0.00954	0.000015	0.000005	0.014	0.000157	18.6
ULU-4a		Portal Pond	Portal pond area	2024-07-30	0.0205	0.000172	0.0014	0.0124	0.00001	0.000005	0.017	0.0000748	25
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	0.0896	0.000329	0.0231	0.00878	0.00001	0.000005	0.01	0.0000135	32.7
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	0.0198	0.000345	0.0288	0.0138	0.00001	0.000005	0.014	0.0000054	57.1
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.12	0.000305	0.00249	0.0112	0.00001	0.0000054	0.011	0.0000284	20.7
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	1.4	0.000366	0.00429	0.0173	0.00007	0.000048	0.013	0.000071	26.3
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	0.154	0.000212	0.0037	0.0182	0.00001	0.0000052	0.038	0.0000237	41.5
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.117	0.00031	0.00403	0.0141	0.00001	0.0000054	0.031	0.0000153	41.6
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	4.07	0.000463	0.0242	0.0526	0.000245	0.000312	0.03	0.000131	76.2
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	0.0335	0.00052	0.00172	0.0164	0.0001	0.00005	0.0553	0.000006	42.7
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	0.24	0.000114	0.00198	0.00642	0.00001	0.000005	0.013	0.0000155	15.7
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.108	0.000336	0.00344	0.00469	0.00001	0.000005	0.027	0.000014	13.5
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.149	0.000222	0.00147	0.00993	0.00001	0.0000064	0.023	0.0000106	28.6
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	0.0459	0.00017	0.00064	0.0234	0.0001	0.00005	0.0178	0.0000726	62.4
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	0.0289	0.000181	0.000455	0.0183	0.00001	0.000005	0.026	0.0000335	58.5
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	0.025	0.000119	0.00047	0.0157	0.00001	0.000005	0.021	0.0000337	62.1
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	0.0631	0.000178	0.000643	0.0256	0.00001	0.0000052	0.031	0.0000791	74.3
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	0.0279	0.000174	0.000509	0.0245	0.00001	0.000005	0.022	0.0000626	82.7
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	0.149	0.000224	0.000679	0.0202	0.00001	0.000006	0.038	0.0000495	54
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	0.0351	0.000214	0.000511	0.0228	0.00001	0.000005	0.042	0.0000593	81.2
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	0.19	0.000235	0.00136	0.00871	0.000014	0.0000129	0.012	0.0000348	15
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	0.31	0.000197	0.00118	0.0154	0.000034	0.000011	0.034	0.000048	35.5
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	0.113	0.000187	0.000544	0.018	-0.00001	0.0000052	0.043	0.0000476	56
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	0.0276	0.000229	0.00034	0.0179	0.00001	0.000005	0.04	0.0000356	51.5
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	0.0395	0.000099	0.000375	0.00819	0.00001	0.000005	0.015	0.0000158	13.4
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	0.0429	0.000061	0.000429	0.0171	0.000011	0.000005	0.028	0.0000601	30.1

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (As)	Total Barium (Ba)	Total Beryllium (Be)	Total Bismuth (Bi)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0005	0.00002	0.00002	0.00002	0.00001	0.000005	0.01	0.000005	0.05
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	0.0347	0.00004	0.000353	0.0148	0.00001	0.000005	0.021	0.0000574	28.2
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	0.0288	0.000053	0.000338	0.0238	0.000016	0.000005	0.025	0.0000919	35.1
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	0.0191	0.00005	0.000357	0.0248	0.00001	0.000005	0.023	0.0000775	48.2
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	0.024	0.00008	0.000329	0.0147	0.00001	0.000005	0.012	0.000029	26.5
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	0.0284	0.000082	0.00056	0.00542	0.00001	0.000005	0.013	0.0000153	8.03
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	0.043	0.000047	0.000385	0.0067	0.00001	0.000005	0.01	0.0000182	12.1
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	0.0465	0.000054	0.000372	0.0121	0.00001	0.000005	0.017	0.0000413	21.6
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	0.169	0.00003	0.00111	0.0205	0.000014	0.0000123	0.025	0.000189	38.1
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.0462	0.000167	0.000472	0.00768	0.000014	0.000005	0.014	0.0000202	25.5
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.0166	0.000117	0.000262	0.0189	0.000014	0.000005	0.024	0.000067	61.4
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.0146	0.000139	0.000226	0.0124	0.00001	0.000005	0.019	0.0000196	39.2
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.106	0.00005	0.000186	0.00502	0.000021	0.000005	0.01	0.0000392	9.57
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.067	0.000046	0.00016	0.0154	0.000026	0.000005	0.011	0.0000732	26.7
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	0.133	0.000051	0.000247	0.0224	0.000026	0.00001	0.01	0.000105	36.7
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.0665	0.000061	0.000279	0.0123	0.000022	0.000005	0.012	0.0000728	19.3
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	0.0945	0.000024	0.000137	0.0081	0.000043	0.000005	0.01	0.0000281	4.98
Ref-03		Camp impacted background		2023-06-13	0.0604	0.00002	0.000097	0.00849	0.000024	0.000005	0.01	0.0000141	7.01
Ref-03		Camp impacted background		2023-07-03	0.0584	0.00002	0.000107	0.0124	0.000021	0.000005	0.01	0.0000204	8.99
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	0.0582	0.00002	0.000054	0.00259	0.000022	0.000005	0.043	0.0000166	2.32
Ref-06		Background		2023-06-13	0.0503	0.00002	0.000061	0.00209	0.000013	0.000005	0.01	0.0000134	1.96
Ref-06		Background		2023-07-03	0.0772	0.00002	0.000093	0.00337	0.000019	0.000005	0.01	0.0000169	3.25
Notes													
Renamed ID's													
Italics <DL													
Calculated from other value													

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0001	0.000005	0.00005	0.001	0.000005	0.0005	0.05	0.00005
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	0.00015	0.00069	0.00315	0.061	0.00005	0.0114	11.3	0.0755
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	0.0001	0.00144	0.00247	0.02	0.00005	0.0122	23	0.44
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	0.0001	0.00215	0.00303	0.137	0.0000251	0.005	5.55	0.261
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	0.0001	0.000266	0.00206	0.0406	0.0000308	0.0087	11.6	0.0122
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	0.00011	0.0611	0.00308	0.173	0.000142	0.0212	17.7	0.532
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	0.00014	0.00971	0.00254	0.0179	0.0000172	0.0161	15.9	0.132
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	0.00017	0.0387	0.00243	0.24	0.000198	0.0173	17.5	0.597
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	0.0001	0.0242	0.002	0.0451	0.0000723	0.0158	15.2	0.693
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	0.00022	0.00148	0.00413	0.141	0.000042	0.00414	3.47	0.179
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	0.0001	0.000209	0.00204	0.0176	0.0000052	0.00699	12.3	0.0143
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	0.00016	0.00115	0.00238	0.113	0.000055	0.0156	21	0.0657
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	0.0005	0.0197	0.00186	0.0736	0.000159	0.0133	16.5	0.941
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	0.0001	0.00345	0.00263	0.103	0.0000187	0.00872	21.1	1.12
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	0.00014	0.0165	0.00127	1.06	0.00005	0.0145	19.6	0.167
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	0.0001	0.00277	0.00196	0.354	0.0000132	0.0031	4.65	0.0303
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	0.00017	0.00389	0.00203	0.172	0.000115	0.0009	1.23	0.0956
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	0.0001	0.0119	0.00094	0.584	0.00002	0.0073	12.1	0.109
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	0.0001	0.0498	0.00084	2.14	0.000031	0.0133	20	0.45
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	0.0001	0.0406	0.000291	4.15	0.0000127	0.0152	31.9	0.551
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	0.00034	0.0066	0.00198	1.08	0.000083	0.00429	6.1	0.208
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	0.00012	0.00102	0.00284	0.203	0.0000363	0.00179	5.67	0.0873
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	0.00018	0.0185	0.00506	0.405	0.000123	0.00235	2.37	0.123
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	0.0001	0.0384	0.00485	0.0463	0.0000153	0.00565	3.64	0.351
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	0.0001	0.0223	0.00597	0.178	0.0000314	0.00433	2.23	0.136
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	0.0001	0.284	0.081	0.393	0.00019	0.0401	28	0.989
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	0.00011	0.0103	0.00562	0.449	0.00011	0.00161	1.1	0.0934
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	0.0001	0.0212	0.0063	0.0554	0.0000211	0.00434	2.57	0.146
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	0.0001	0.0691	0.0181	0.0162	0.0000148	0.00808	4.85	0.446
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	0.00011	0.358	0.136	0.097	0.000281	0.0332	26.6	1.79
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0001	0.0139	0.0029	0.357	0.0000238	0.00494	9.73	0.235
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0001	0.223	0.0456	0.113	0.000345	0.0219	12.7	1.52
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.00033	0.0004	0.00203	0.186	0.0000389	0.00105	6.08	0.0358
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0001	0.000005	0.00005	0.001	0.000005	0.0005	0.05	0.00005
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	0.00016	0.0000772	0.00162	0.0287	0.0000124	0.0005	2.14	0.00188
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	0.0001	0.000121	0.00171	0.0176	0.000005	0.0005	4.21	0.00322
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	0.00023	0.000188	0.00153	0.179	0.0000629	0.00067	3.38	0.00466
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	0.00011	0.0000478	0.0021	0.0245	0.0000159	0.00129	1.2	0.000488
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	0.0001	0.0000901	0.00293	0.0558	0.0000184	0.00134	1	0.00265
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	0.0001	0.0000532	0.00258	0.0172	0.0000055	0.00168	1.22	0.00056
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	0.00011	0.000422	0.00163	0.0497	0.0000459	0.0085	5.41	0.00387
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	0.00033	0.00503	0.00342	0.549	0.00064	0.00196	2.62	0.0265
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	0.00011	0.00229	0.00174	0.12	0.000169	0.00176	2.61	0.0186
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	0.00022	0.00446	0.00327	0.167	0.000214	0.00252	5.15	0.0222
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	0.0001	0.000241	0.00207	0.0121	0.0000173	0.00258	5.1	0.000329
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	0.00018	0.00027	0.00239	0.0802	0.0000287	0.00087	3.49	0.00213
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	0.0001	0.000286	0.00258	0.017	0.0000253	0.00211	7.77	0.00603
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	0.0001	0.000384	0.00327	0.0118	0.000136	0.00149	7.6	0.00602
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	0.00021	0.00549	0.00346	0.408	0.000134	0.00184	7.55	0.224
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	0.00011	0.000359	0.00237	0.0046	0.000013	0.00205	5.13	0.00208
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	0.0001	0.000495	0.00251	0.0381	0.000026	0.00313	8.31	0.00572
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	0.0001	0.000373	0.00272	0.0136	0.0000204	0.00178	4.84	0.00195
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	0.0001	0.000329	0.00261	0.0026	0.0000124	0.00191	5.32	0.0019
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	0.0001	0.000371	0.00233	0.0113	0.0000054	0.00377	8.18	0.00547
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	0.0001	0.00361	0.00175	0.0332	0.0000302	0.00138	1.35	0.0304
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	0.0001	0.000189	0.00225	0.0154	0.0000099	0.00185	3.9	0.0021
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	0.00029	0.00178	0.00341	0.32	0.000175	0.00233	5.88	0.04
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	0.00067	0.00231	0.00482	0.602	0.000339	0.0038	10.6	0.0497
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	0.0001	0.00121	0.00276	0.0279	0.0000224	0.00377	12.7	0.0223
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	0.00021	0.00549	0.00346	0.408	0.000134	0.00184	7.55	0.224
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	0.00015	0.000929	0.00263	0.13	0.000131	0.0014	7.4	0.0337
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	0.00012	0.000612	0.00241	0.0606	0.000141	0.00151	6.9	0.0191
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	0.0001	0.000403	0.00207	0.0196	0.000026	0.00188	5.77	0.00387
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	0.0001	0.000279	0.00187	0.0151	0.000031	0.00142	7.9	0.00553
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	0.0001	0.000284	0.0022	0.0069	0.0000272	0.00111	4.49	0.00145
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	0.0001	0.00066	0.00224	0.0157	0.0000266	0.00144	4.47	0.0293
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	0.0001	0.000342	0.00192	0.0166	0.0000089	0.00193	7.96	0.00993
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	0.00016	0.000301	0.00408	0.0894	0.0000674	0.00207	5.21	0.0246
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	0.00019	0.000377	0.00602	0.167	0.000182	0.00277	13.8	0.0379
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	0.00017	0.0003	0.00269	0.0985	0.000111	0.00301	5.59	0.0166

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0001	0.000005	0.00005	0.001	0.000005	0.0005	0.05	0.00005
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	0.0001	0.000107	0.00313	0.0323	0.0000582	0.00186	11.6	0.0033
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	0.00173	0.00173	0.00393	2.51	0.0019	0.00234	1.09	0.0353
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	0.00012	0.0017	0.00442	0.0513	0.0000337	0.00381	5.17	0.0152
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	0.00036	0.00238	0.00675	0.236	0.000226	0.0028	3.07	0.0366
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	0.0003	0.00191	0.00498	0.216	0.000242	0.0031	3.17	0.0341
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	0.00068	0.00218	0.00463	0.609	0.000318	0.0041	4.33	0.0864
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	0.00038	0.00261	0.00425	0.367	0.000533	0.00436	3.97	0.0349
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	0.0001	0.00661	0.00425	0.158	0.000241	0.00386	3.86	0.0336
ULU-4a		Portal Pond	Portal pond area	2024-07-30	0.0001	0.00107	0.00279	0.188	0.000172	0.00386	5.13	0.0164
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	0.00019	0.00161	0.00163	0.216	0.000298	0.00495	2.98	0.0293
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	0.0001	0.000417	0.00108	0.0217	0.0000358	0.00568	3.91	0.00815
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.00018	0.00131	0.00312	0.151	0.000188	0.00163	1.98	0.0177
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	0.00313	0.00407	0.00556	2.12	0.00159	0.00508	3.65	0.0503
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	0.00026	0.000749	0.00257	0.222	0.000282	0.0018	3.8	0.035
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.00042	0.000482	0.00305	0.237	0.000325	0.00205	2.92	0.00675
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.009	0.00642	0.0242	9.66	0.00724	0.0173	6.83	0.124
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	0.00014	0.00017	0.00315	0.051	0.00005	0.0044	5.48	0.0018
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	0.00023	0.00268	0.00529	0.406	0.000424	0.0017	2.24	0.0125
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.00021	0.00165	0.00474	0.223	0.000314	0.00259	1.55	0.00869
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.00011	0.00238	0.00511	0.435	0.000344	0.00297	3.6	0.0104
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	0.00018	0.00018	0.00331	0.061	0.000072	0.0017	10.8	0.00872
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	0.00014	0.000266	0.00252	0.0371	0.0000629	0.00077	9.8	0.00132
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	0.00016	0.000314	0.00225	0.0338	0.0000455	0.0005	8.99	0.00228
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	0.00026	0.000441	0.00258	0.0992	0.000122	0.00094	8.91	0.019
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	0.00012	0.000252	0.00234	0.0432	0.000033	0.00065	11	0.00398
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	0.0003	0.000333	0.0022	0.278	0.000142	0.00111	6.21	0.00751
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	0.00014	0.000252	0.00258	0.0491	0.0000453	0.00074	11.3	0.00714
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	0.00035	0.00103	0.00261	0.284	0.000453	0.00079	1.95	0.0198
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	0.00062	0.000702	0.00235	0.486	0.000373	0.00141	4.39	0.0182
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	0.00025	0.00029	0.00224	0.181	0.00012	0.00093	8.07	0.00696
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	0.00011	0.000168	0.00165	0.0403	0.0000431	0.00067	7.05	0.00321
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	0.0001	0.0000962	0.00189	0.0153	0.0000088	0.0005	1.81	0.000526
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	0.00018	0.000237	0.00225	0.0401	0.0000472	0.0005	6.2	0.00379

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0001	0.000005	0.00005	0.001	0.000005	0.0005	0.05	0.00005
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	0.00011	0.000211	0.00174	0.0335	0.0000375	0.0005	4.47	0.00473
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	0.00013	0.000506	0.00191	0.0128	0.0000533	0.0005	5.13	0.00518
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	0.0001	0.000214	0.00167	0.0249	0.000007	0.0005	7.76	0.00341
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	0.0001	0.000136	0.00194	0.016	0.0000114	0.0005	3.44	0.00172
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	0.0001	0.000127	0.00128	0.0206	0.0000195	0.0005	0.95	0.00266
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	0.00013	0.000183	0.00211	0.0402	0.000039	0.0005	1.75	0.00334
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	0.0001	0.00019	0.00204	0.0461	0.0000337	0.0005	3.77	0.00286
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	0.00038	0.0008	0.00306	0.212	0.000278	0.00155	9.74	0.0696
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.00013	0.000112	0.00147	0.0395	0.0000461	0.00051	3.17	0.00246
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.0001	0.00017	0.00164	0.0093	0.0000285	0.00055	7.61	0.00172
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.0001	0.0000814	0.00139	0.0142	0.0000111	0.0005	4.94	0.000909
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.00015	0.000159	0.00213	0.0553	0.0000641	0.0005	1.86	0.00207
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.0001	0.000172	0.00185	0.0391	0.0000631	0.0005	5.35	0.00229
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	0.0002	0.000275	0.00224	0.137	0.000131	0.0005	7.64	0.00566
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.00037	0.000378	0.00333	0.0488	0.0000614	0.0005	4.45	0.00484
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	0.00018	0.0000579	0.00244	0.0511	0.0000403	0.00117	1.42	0.00182
Ref-03		Camp impacted background		2023-06-13	0.0001	0.0000298	0.0019	0.0312	0.0000075	0.00085	2	0.00193
Ref-03		Camp impacted background		2023-07-03	0.00018	0.0000442	0.0024	0.0257	0.0000067	0.00105	3.24	0.00379
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	0.0001	0.000311	0.0021	0.0125	0.0000251	0.0005	0.584	0.0129
Ref-06		Background		2023-06-13	0.0001	0.0000902	0.00175	0.0107	0.0000121	0.0005	0.444	0.000552
Ref-06		Background		2023-07-03	0.00013	0.000154	0.00281	0.026	0.0000449	0.0005	0.923	0.00105
Notes												
Renamed ID's												
Italics <DL												
Calculated from other value												

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Mercury (Hg)	Total Molybdenum (Mo)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0000019	0.00005	0.00002	0.002	0.05	0.00004	0.05	0.000005
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	0.000005	0.000364	0.0106	0.05	7.59	0.000738	3.35	0.00001
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	0.000005	0.000178	0.0202	0.05	10.6	0.000631	3.37	0.00001
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	0.0000073	0.000153	0.00784	0.0392	3.35	0.000273	2.09	0.0000081
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	0.0000019	0.0001	0.00698	0.0074	5.93	0.000602	2.34	0.000005
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	0.0000021	0.000922	0.0417	0.0262	9.61	0.00148	2.35	0.0000056
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	0.0000019	0.00038	0.0162	0.0051	8.16	0.000941	2.26	0.000005
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	0.0000019	0.000809	0.0183	0.0303	8.07	0.00139	2.42	0.00001
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	0.0000034	0.000723	0.0123	0.009	7.86	0.000981	2.4	0.000005
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	0.0000084	0.000189	0.00618	0.0645	2.39	0.000163	1.63	0.00002
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	0.0000019	0.000109	0.00264	0.0049	4.53	0.000449	1.94	0.000005
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	0.0000021	0.000208	0.00463	0.0321	9.15	0.00102	3.05	0.00001
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	0.0000024	0.00079	0.0122	0.026	7.39	0.00176	2.47	0.000025
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	0.0000028	0.00017	0.014	0.0199	8.67	0.000473	3.14	0.000013
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	0.000005	0.000108	0.0248	0.05	6.96	0.000803	3.41	0.00001
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	0.0000019	0.00005	0.00759	0.0108	1.65	0.00023	1.31	0.0000088
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	0.0000038	0.00005	0.0036	0.0357	0.841	0.000058	0.539	0.0000094
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	0.0000019	0.000096	0.0214	0.015	2.72	0.000246	0.542	0.00001
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	0.0000019	0.000052	0.0466	0.0713	4.56	0.000298	1.72	0.00001
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	0.0000019	0.000222	0.0372	0.0235	7.82	0.000139	3	0.000005
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	#N/A	0.000188	0.00318	0.0254	2.62	0.000225	2.45	0.0000069
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	#N/A	0.000147	0.00126	0.0114	2.54	0.000146	1.69	0.000009
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	0.0000043	0.000152	0.00916	0.0243	1.29	0.000361	1.24	0.0000083
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	0.0000019	0.00005	0.0213	0.0052	1.41	0.000556	1.6	0.000005
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	0.0000019	0.00005	0.0118	0.0075	1.2	0.000212	1.63	0.000005
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	0.0000019	0.000056	0.13	0.0073	7.15	0.00262	5.68	0.000005
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	0.0000044	0.000231	0.00496	0.0247	0.737	0.000122	1	0.0000422
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	0.0000019	0.00005	0.0115	0.002	0.97	0.000213	1.46	0.000005
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	0.0000019	0.00005	0.0359	0.002	1.74	0.000546	2.39	0.000005
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	0.0000019	0.00005	0.164	0.015	6.83	0.00414	6.21	0.0000067
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0000025	0.00005	0.0198	0.0071	1.96	0.000216	1.88	0.0000089
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0000028	0.00005	0.102	0.005	3.33	0.00151	4.7	0.00001
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0000038	0.00005	0.00102	0.0157	1.42	0.000049	1.08	0.0000054
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Mercury (Hg)	Total Molybdenum (Mo)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0000019	0.00005	0.00002	0.002	0.05	0.00004	0.05	0.000005
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	0.000003	0.00005	0.00148	0.0057	0.941	0.00004	0.959	0.000005
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	0.0000019	0.00005	0.00219	0.002	1.32	0.00004	2.41	0.000005
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	0.0000019	0.00005	0.00171	0.006	1.16	0.00004	1.59	0.000005
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	0.0000056	0.00005	0.000727	0.0065	0.801	0.00004	1.07	0.0000054
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	0.0000019	0.00005	0.000987	0.0052	0.619	0.00004	1.63	0.0000105
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	0.0000035	0.00005	0.000929	0.0058	0.565	0.00004	2.13	0.0000055
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	0.0000019	0.00164	0.00102	0.008	4.87	0.000531	2.22	0.000005
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	0.0000023	0.000544	0.00292	0.0192	1.82	0.000219	1.29	0.0000423
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	0.0000019	0.000708	0.00196	0.0086	1.9	0.000156	0.715	0.000005
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	0.0000019	0.00318	0.00322	0.0118	3.13	0.000532	0.865	0.000005
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	0.0000019	0.00192	0.00209	0.0044	4.15	0.000121	0.943	0.000005
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	0.0000025	0.000395	0.00132	0.009	2.23	0.000203	1.28	0.000005
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	0.0000019	0.000526	0.00203	0.0056	4.24	0.000215	1.65	0.000005
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	0.0000019	0.000404	0.00201	0.004	3.96	0.000191	1.45	0.0000123
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	0.0000003	0.000456	0.00363	0.0176	3.67	0.000109	0.982	0.0000076
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	0.0000019	0.000426	0.00158	0.002	2.99	0.000209	1.41	0.000005
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	0.0000019	0.000712	0.00237	0.004	4.99	0.000232	1.73	0.000005
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	0.0000019	0.000575	0.00161	0.0028	2.98	0.000217	1.47	0.0000054
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	0.0000021	0.000635	0.00172	0.003	3.16	0.000153	1.77	0.000005
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	0.0000019	0.00068	0.00232	0.002	5.18	0.000167	1.83	0.0000051
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	0.0000021	0.000154	0.00252	0.0101	0.844	0.000105	0.753	0.000001
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	0.0000019	0.000399	0.00137	0.0043	2.19	0.000143	1.28	0.000008
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	0.0000019	0.000571	0.00226	0.008	3.35	0.000181	2	0.000013
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	0.0000019	0.000712	0.00357	0.0186	5.6	0.000194	2.37	0.000021
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	0.0000019	0.000637	0.00334	0.0081	5.42	0.000338	2.36	0.0000093
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	0.0000003	0.000456	0.00363	0.0176	3.67	0.000109	0.982	0.0000076
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	0.0000019	0.000245	0.00186	0.0133	3.6	0.000139	0.809	0.000001
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	0.0000019	0.000338	0.00156	0.0075	3.82	0.000216	1.19	0.000001
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	0.0000019	0.000308	0.00115	0.0084	2.93	0.000129	0.928	0.000001
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	0.0000019	0.000173	0.0011	0.0065	3.87	0.000064	0.758	0.000001
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	0.0000019	0.000219	0.000888	0.0049	2.78	0.000082	1	0.000005
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	0.0000002	0.000194	0.000992	0.0061	2.55	0.000064	0.969	0.000005
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	0.0000019	0.000234	0.00122	0.0025	4.09	0.000063	1.38	0.000005
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	0.0000019	0.000314	0.00164	0.0154	2.75	0.000132	1.42	0.0000052
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	0.0000019	0.00129	0.00361	0.0221	10.3	0.000206	2.33	0.0000089
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	0.0000019	0.00223	0.00117	0.0242	6	0.000142	1.49	0.0000109

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Mercury (Hg)	Total Molybdenum (Mo)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0000019	0.00005	0.00002	0.002	0.05	0.00004	0.05	0.000005
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	0.0000019	0.000738	0.00188	0.0087	8.45	0.000199	1.82	0.0000055
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	0.0000019	0.000151	0.00314	0.0302	1.21	0.000065	2.05	0.000005
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	0.0000019	0.000096	0.00264	0.0043	2.46	0.000063	2.67	0.0000232
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	0.000005	0.000497	0.00594	0.05	1.91	0.000106	1.51	0.000012
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	0.000005	0.000438	0.0058	0.05	1.96	0.000124	1.36	0.00001
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	0.000005	0.00135	0.00683	0.05	2.58	0.000136	1.66	0.00001
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	0.0000019	0.000348	0.00646	0.0163	2.14	0.000237	1.24	0.0000168
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	0.0000019	0.000167	0.00795	0.002	1.67	0.000117	0.998	0.000005
ULU-4a		Portal Pond	Portal pond area	2024-07-30	0.0000019	0.00029	0.00678	0.0044	2.35	0.000095	1.06	0.000005
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	#N/A	0.000311	0.00188	0.0138	3.56	0.000207	1.03	0.000005
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	0.0000019	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	0.0000019	0.000506	0.00109	0.0023	5.18	0.000314	1.3	0.000005
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.0000028	0.000232	0.00245	0.0156	2.06	0.000138	1.05	0.000005
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	0.0000019	0.000313	0.00629	0.0495	2.8	0.000225	2.79	0.000014
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	0.0000019	0.000372	0.00166	0.0185	2.96	0.000377	1.76	0.000005
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.0000019	0.000422	0.00151	0.0135	3.48	0.000255	1.77	0.0000092
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.0000019	0.00104	0.0177	0.113	5.14	0.000376	8	0.000122
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	0.000005	0.000342	0.00156	0.05	2.88	0.000152	3.05	0.00001
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	0.0000042	0.000181	0.0027	0.0246	1.39	0.000136	1.3	0.0000101
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.0000023	0.000161	0.0023	0.0104	1.25	0.000147	0.956	0.0000054
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.0000019	0.000149	0.00314	0.0191	1.74	0.000169	2.01	0.000009
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	0.000005	0.000136	0.00359	0.05	4.26	0.000196	2.21	0.00001
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	0.0000019	0.000418	0.00185	0.0118	3.79	0.000294	1.69	0.000005
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	0.0000019	0.000286	0.00228	0.0039	3.46	0.000342	1.82	0.000005
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	0.0000019	0.000262	0.00273	0.0078	4.05	0.000279	1.73	0.0000052
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	0.0000027	0.000243	0.00247	0.007	4.33	0.000181	1.89	0.0000056
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	0.0000019	0.0003	0.00229	0.0087	3.46	0.000207	1.53	0.000005
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	0.0000019	0.00029	0.0029	0.0086	4.59	0.000165	1.77	0.000005
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	-0.0000019	0.000293	0.00188	0.0179	1.57	0.000096	0.963	0.0000088
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	-0.0000019	0.000305	0.00238	0.019	2.69	0.000155	1.5	-0.00001
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	-0.0000019	0.000387	0.00202	0.006	3.83	0.000186	1.51	-0.000005
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	0.0000019	0.000297	0.00182	0.007	3.62	0.000205	1.5	0.000005
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	0.0000037	0.000125	0.00224	0.012	1.08	0.000043	1.03	0.000005
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	0.0000019	0.000159	0.00508	0.0102	2.4	0.000127	2.14	0.000005

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Mercury (Hg)	Total Molybdenum (Mo)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0000019	0.00005	0.00002	0.002	0.05	0.00004	0.05	0.000005
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	0.0000019	0.000141	0.00475	0.0025	1.81	0.000112	2.24	0.000005
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	0.0000027	0.000324	0.00428	0.017	1.43	0.000069	1.92	0.0000092
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	0.0000019	0.000099	0.00588	0.0021	2.57	0.000097	2.38	0.000005
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	0.0000019	0.00017	0.00325	0.0028	1.46	0.000073	1.74	0.000005
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	0.0000031	0.000113	0.00139	0.0185	0.958	0.00004	0.663	0.000006
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	0.000002	0.0001	0.00248	0.003	0.876	0.000049	1.29	0.000005
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	0.0000019	0.000103	0.00381	0.0051	1.5	0.000074	1.96	0.000005
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	0.0000019	0.00005	0.012	0.0065	3.21	0.000119	3.1	0.0000148
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.0000029	0.000259	0.00114	0.0074	2.07	0.000196	1.05	0.000005
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.0000019	0.000232	0.00189	0.0076	2.95	0.000256	1.67	0.000005
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.0000019	0.000265	0.00125	0.004	2.73	0.000078	1.32	0.000005
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.000002	0.000053	0.00115	0.0075	0.84	0.000062	1.41	0.000005
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.0000019	0.000053	0.00144	0.0095	1.29	0.000088	1.85	0.000005
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	0.0000019	0.000057	0.0022	0.0155	1.82	0.00004	2.31	0.00001
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.0000019	0.000066	0.00177	0.0263	1.39	0.000045	1.6	0.000005
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	0.0000035	0.00005	0.00123	0.006	0.446	0.000054	1.61	0.000005
Ref-03		Camp impacted background		2023-06-13	0.0000019	0.00005	0.000973	0.0023	0.433	0.00004	1.87	0.000005
Ref-03		Camp impacted background		2023-07-03	0.0000019	0.00005	0.00245	0.002	0.581	0.00004	2.54	0.000005
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	0.0000019	0.00191	0.000818	0.002	0.137	0.000093	1.33	0.000005
Ref-06		Background		2023-06-13	0.0000019	0.00005	0.000662	0.0042	0.139	0.00004	0.985	0.000005
Ref-06		Background		2023-07-03	0.0000019	0.00005	0.00218	0.002	0.232	0.00004	1.49	0.000005
Notes												
Renamed ID's												
Italics <DL												
Calculated from other value												

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (TI)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.05	0.00005	3	0.000002	0.0002	0.0005	0.000002	0.0002	0.0001
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	63.9	0.098	95.5	0.000013	0.0001	0.00133	0.000132	0.0005	0.0976
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	126	0.18	129	0.000017	0.0001	0.00036	0.000077	0.0005	0.171
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	11.1	0.0378	27.4	0.000004	0.0002	0.00293	0.000145	0.0002	0.046
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	12.6	0.0967	98.5	0.0000041	0.0002	0.00091	0.0000682	0.0002	0.0409
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	7.19	0.169	161	0.0000093	0.0002	0.00138	0.000678	0.0002	0.29
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	9.94	0.142	133	0.000005	0.0002	0.0005	0.000227	0.0002	0.0974
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	9.78	0.151	153	0.000009	0.0002	0.0071	0.000336	0.00052	0.116
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	14.1	0.154	142	0.0000087	0.0002	0.0005	0.000327	0.0002	0.0842
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	7.44	0.0211	15	0.0000032	0.0002	0.0032	0.000168	0.00034	0.02
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	20.1	0.0764	70.4	0.0000034	0.0002	0.00066	0.0000958	0.0002	0.011
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	31	0.17	163	0.0000073	0.0002	0.0045	0.000142	0.00055	0.026
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	18.6	0.129	132	0.00001	0.001	0.0025	0.000406	0.001	0.12
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	75.8	0.155	133	0.000013	0.0002	0.0005	0.000097	0.0002	0.16
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	8.12	0.139	125	0.00001	0.0001	0.0015	0.000026	0.0005	0.0543
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	2.22	0.0297	19.3	0.0000037	0.0002	0.0005	0.0000403	0.0002	0.0146
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	0.728	0.00772	4	0.0000045	0.0002	0.00504	0.0000371	0.00027	0.0116
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	7.26	0.0589	67.3	0.0000069	0.0002	0.002	0.0000111	0.0002	0.0316
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	9.96	0.125	126	0.0000132	0.0002	0.0026	0.000016	0.00044	0.0599
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	10.5	0.18	186	0.0000021	0.0002	0.0005	0.0000147	0.0002	0.00966
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	1.02	0.041	25.1	0.0000042	0.0002	0.00147	0.0000563	0.00032	0.00579
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	5.09	0.0375	25.6	0.0000097	0.0002	0.00138	0.000322	0.0002	0.00162
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	1.66	0.0198	7.6	0.0000073	0.0002	0.00487	0.000197	0.00021	0.017
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	4.46	0.0296	22.5	0.0000104	0.0002	0.0005	0.000161	0.0002	0.0429
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	1.88	0.0212	8.8	0.0000098	0.0002	0.00054	0.000235	0.0002	0.0242
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	10.5	0.14	196	0.0000567	0.0002	0.0005	0.00413	0.0002	0.3
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	0.784	0.0109	5	0.0000053	0.0002	0.00231	0.000217	0.0002	0.0108
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	2.16	0.0185	13.5	0.000007	0.0002	0.0005	0.000392	0.0002	0.0229
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	4.67	0.0375	27.1	0.0000163	0.0002	0.0005	0.000682	0.0002	0.0746
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	16.1	0.17	189	0.0000776	0.0002	0.0005	0.00772	0.0002	0.414
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	8.66	0.0744	57.1	0.0000068	0.0002	0.0005	0.000034	0.0002	0.0263
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	13.8	0.0747	80.6	0.0000506	0.0002	0.002	0.00101	0.0002	0.22
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	2.98	0.0428	15	0.0000051	0.0002	0.0005	0.0000391	0.0002	0.00377
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (TI)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.05	0.00005	3	0.000002	0.0002	0.0005	0.000002	0.0002	0.0001
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	3.24	0.0115	5.6	0.000002	0.0002	0.00081	0.0000417	0.0002	0.00089
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	5.89	0.027	12.5	0.000002	0.0002	0.0005	0.0000349	0.0002	0.00196
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	4.67	0.0209	10.5	0.000002	0.0002	0.00392	0.0000365	0.00021	0.00252
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	1.53	0.0201	3	0.000002	0.0002	0.00089	0.0000712	0.0002	0.00709
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	1.54	0.0247	3	0.000002	0.0002	0.00119	0.0000714	0.0002	0.00075
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	1.65	0.0269	7	0.000002	0.0002	0.0005	0.0000648	0.0002	0.00213
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	2.64	0.106	61.2	0.0000134	0.0002	0.001	0.00128	0.0002	0.00151
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	0.587	0.0198	9.8	0.0000111	0.0002	0.0124	0.000304	0.00062	0.00949
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	0.658	0.0198	11.9	0.0000077	0.0002	0.00193	0.000404	0.0002	0.0045
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	0.98	0.0414	25.8	0.0000097	0.0002	0.00402	0.00128	0.00027	0.00698
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	1.67	0.042	21.7	0.0000106	0.0002	0.0005	0.000602	0.0002	0.0028
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	2.38	0.029	8.1	0.0000036	0.0002	0.0024	0.000239	0.0002	0.0001
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	5.98	0.0617	39.9	0.0000023	0.0002	0.0005	0.000638	0.0002	0.0022
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	6.4	0.0696	29.3	0.0000042	0.0002	0.0005	0.000805	0.0002	0.00247
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	5.95	0.0594	39.2	0.0000056	0.0002	0.00199	0.000351	0.00027	0.00707
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	3.37	0.048	33.4	0.0000038	0.0002	0.0005	0.000272	0.0002	0.00173
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	4.96	0.0865	58	0.0000042	0.0002	0.0005	0.000946	0.0002	0.00274
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	3.62	0.0381	22.9	0.0000036	0.0002	0.0005	0.000294	0.0002	0.00106
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	3.96	0.0445	28.9	0.0000042	0.0002	0.0005	0.000405	0.0002	0.00134
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	5.46	0.0824	53	0.0000058	0.0002	0.0005	0.00106	0.0002	0.00201
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	0.718	0.0113	6.3	0.000003	0.0002	0.0006	0.000117	0.0002	0.00515
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	3.72	0.0273	16.5	0.0000034	0.0002	0.0005	0.000201	0.0002	0.0015
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	5.85	0.0445	30.8	0.0000036	0.0002	0.0059	0.000568	0.0004	0.0039
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	9.15	0.0803	54.5	0.0000076	0.0002	0.0139	0.00182	0.00088	0.0071
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	13.7	0.104	68.6	0.0000056	0.0002	0.00421	0.00135	0.0002	0.00431
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	5.95	0.0594	39.2	0.0000056	0.0002	0.00199	0.000351	0.00027	0.00707
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	6.51	0.068	29.9	0.0000071	0.0002	0.002	0.000265	0.0002	0.0041
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	5.89	0.0668	29.7	0.0000042	0.0002	0.002	0.000364	0.0002	0.0021
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	3.9	0.0528	36.5	0.0000028	0.0002	0.002	0.000133	0.0002	0.0025
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	5.28	0.0785	51.3	0.0000032	0.0002	0.002	0.000142	0.0002	0.002
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	4.22	0.0364	21.9	0.000002	0.0002	0.0005	0.000113	0.0002	0.00043
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	3.74	0.0388	25.9	0.0000036	0.0002	0.0005	0.000118	0.0002	0.00117
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	5.54	0.0806	47.8	0.0000048	0.0002	0.0005	0.000296	0.0002	0.00086
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	2.35	0.0693	13.6	0.0000076	0.0002	0.00183	0.000735	0.0002	0.132
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	15.9	0.158	83.7	0.0000233	0.0002	0.00105	0.00535	0.0002	0.33
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	2.98	0.0854	24.6	0.0000111	0.0002	0.003	0.00157	0.0002	0.085

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (TI)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.05	0.00005	3	0.000002	0.0002	0.0005	0.000002	0.0002	0.0001
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	13.9	0.0983	62.1	0.0000174	0.0002	0.0005	0.00308	0.0002	0.0147
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	0.384	0.00555	3	0.0000174	0.0002	0.0562	0.00013	0.00427	0.0125
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	11	0.117	9.9	0.0000105	0.0002	0.00067	0.000101	0.0002	0.00413
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	8.62	0.0264	13.9	0.00001	0.0001	0.00305	0.000232	0.0005	0.167
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	9.84	0.03	14.5	0.000017	0.0001	0.00097	0.000251	0.0005	0.167
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	13.4	0.041	18.5	0.00001	0.0001	0.00108	0.00067	0.0005	0.145
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	11	0.0529	13.3	0.0000092	0.0002	0.0046	0.000233	0.00035	0.186
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	8.84	0.0287	11.8	0.0000081	0.0002	0.00079	0.000267	0.0002	0.229
ULU-4a		Portal Pond	Portal pond area	2024-07-30	13.3	0.045	16.6	0.0000071	0.0002	0.0005	0.000351	0.0002	0.221
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	2.07	0.025	25.2	0.0000078	0.0002	0.00566	0.000155	0.00039	0.00282
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	2.74	0.0397	33.7	0.000008	0.0002	0.00057	0.000383	0.0002	0.00121
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.887	0.0166	12.5	0.0000077	0.0002	0.00409	0.000139	0.00028	0.00398
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	2.35	0.03	19.9	0.0000285	0.0002	0.0679	0.000348	0.00339	0.0226
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	3.07	0.0418	15.1	0.0000074	0.0002	0.00554	0.000267	0.00039	0.0053
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	2.15	0.0642	27.7	0.0000114	0.00025	0.00555	0.000258	0.00044	0.00524
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	4.4	0.082	31.4	0.000102	0.0002	0.243	0.00106	0.0151	0.0905
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	6.33	0.0597	29.4	0.00001	0.0001	0.00111	0.000142	0.0005	0.0056
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	1.34	0.0169	3.4	0.0000057	0.0002	0.00698	0.0000847	0.0007	0.0063
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.82	0.017	7.2	0.0000074	0.00074	0.00406	0.0000858	0.00044	0.00579
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	2.04	0.035	9.9	0.0000063	0.0002	0.00447	0.000117	0.00056	0.00713
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	27.1	0.0884	51.9	0.000023	0.0001	0.0018	0.000978	0.0005	0.0058
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	11	0.0741	49.6	0.0000071	0.0002	0.00104	0.00134	0.0002	0.00207
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	13.6	0.0727	32.4	0.0000057	0.0002	0.00104	0.00087	0.0002	0.00287
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	8.86	0.0849	47.7	0.0000114	0.0002	0.00317	0.00136	0.0002	0.00367
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	15.1	0.0997	56.9	0.0000097	0.0002	0.00083	0.00182	0.0002	0.00343
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	6.92	0.0657	27.6	0.0000133	0.0002	0.00815	0.00068	0.00042	0.00335
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	11.9	0.0973	55.9	0.0000107	0.0002	0.00184	0.00219	0.0002	0.0031
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	2.06	0.0177	7.6	0.0000078	-0.0002	0.00827	0.000201	0.00052	0.0049
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	4.68	0.0393	20.9	0.0000111	-0.0002	0.0131	0.000371	0.00076	0.0053
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	10.2	0.0656	40.1	0.0000095	-0.0002	0.00357	0.00104	0.00027	0.00423
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	9.12	0.0622	35.5	0.0000053	0.0002	0.00108	0.000344	0.0002	0.00295
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	1.91	0.0167	5	0.000002	0.0002	0.00055	0.0000671	0.0002	0.00106
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	11.7	0.0523	34.2	0.0000044	0.0002	0.00172	0.0000686	0.0002	0.00619

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (TI)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.05	0.00005	3	0.000002	0.0002	0.0005	0.000002	0.0002	0.0001
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	9.38	0.0425	17.4	0.0000037	0.0002	0.00116	0.0000503	0.0002	0.00292
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	5.45	0.0514	31.1	0.0000099	0.0002	0.0005	0.0000991	0.00027	0.00222
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	9.94	0.0735	47.2	0.0000043	0.0002	0.0005	0.0000481	0.0002	0.00391
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	3.21	0.0377	16.4	0.0000028	0.0002	0.0005	0.0000559	0.0002	0.00205
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	0.699	0.0103	3.8	0.0000023	0.0002	0.0005	0.0000471	0.0002	0.00137
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	1.96	0.0147	7.9	0.0000031	0.0002	0.00139	0.0000828	0.0002	0.00105
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	4.89	0.0319	21.2	0.0000041	0.0002	0.00112	0.0000761	0.0002	0.00222
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	16.9	0.0687	44.8	0.0000102	0.0002	0.00711	0.000124	0.0004	0.0124
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	2.71	0.0268	7.8	0.0000031	0.0002	0.00163	0.000133	0.0002	0.00119
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	9.7	0.0694	38	0.0000066	0.0002	0.0005	0.000378	0.0002	0.00196
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	7	0.0484	19.3	0.0000042	0.0002	0.0005	0.000227	0.0002	0.00104
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	1.54	0.0117	4.6	0.0000032	0.0002	0.00234	0.000157	0.0002	0.00104
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	3.54	0.0344	22.7	0.0000051	0.0002	0.00164	0.000125	0.0002	0.00282
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	5.45	0.0515	32.9	0.0000068	0.0002	0.0038	0.000155	0.0002	0.005
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	3.79	0.0253	17.7	0.0000052	0.0002	0.0016	0.000135	0.00027	0.00435
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	0.895	0.00892	3	0.0000035	0.0002	0.00112	0.000154	0.0002	0.00446
Ref-03		Camp impacted background		2023-06-13	1.15	0.0131	3	0.000002	0.0002	0.0005	0.0000953	0.0002	0.00211
Ref-03		Camp impacted background		2023-07-03	1.83	0.0199	3	0.000002	0.0002	0.0005	0.000103	0.0002	0.00312
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	0.581	0.00358	3	0.0000032	0.0002	0.0005	0.000135	0.0002	0.00252
Ref-06		Background		2023-06-13	0.324	0.00302	3	0.000002	0.0002	0.0005	0.000123	0.0002	0.00257
Ref-06		Background		2023-07-03	0.514	0.00535	3	0.0000037	0.0002	0.0005	0.000157	0.0002	0.00409
Notes													
Renamed ID's													
Italics <DL													
Calculated from other value													

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Zirconium (Zr)	Total Tungsten (W)	Total Thorium (Th)	Total Cesium (Cs)	Total Tellurium (Te)	Total Rubidium (Rb)	Dissolved Hardness (CaCO3)	Dissolved Aluminum (Al)	Dissolved Antimony (Sb)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0001	0.0001	0.0001	0.00001	0.0002	0.0002	0.5	0.0005	0.00002
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	0.00033	0.0001	0.0001	0.000263	0.0002	0.0113	#N/A	0.028	0.00038
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.033	0.00032
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	0.0002	0.0001	0.0001	0.000286	0.0002	0.0131	#N/A	0.0203	0.00029
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	0.0002	#N/A	#N/A	#N/A	#N/A	#N/A	112	0.0445	0.0002
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	0.00013	#N/A	#N/A	#N/A	#N/A	#N/A	306	0.0105	0.000178
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	478	0.0182	0.00057
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	408	0.0118	0.000313
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	590	0.00865	0.00051
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	391	0.007	0.000398
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	0.00029	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0463	0.000168
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	0.0002	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0141	0.000197
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	0.00016	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0069	0.000272
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	0.0005	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0117	0.00044
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	0.0002	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0263	0.000341
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	0.0002	0.0001	0.0001	0.00006	0.0002	0.00832	366	0.0151	0.0001
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0231	0.00016
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0556	0.00027
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0119	0.0001
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	0.0002	#N/A	#N/A	#N/A	#N/A	#N/A	86	0.0239	0.000032
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	0.00017	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0335	0.00002
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.00595	0.000025
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.00547	0.00004
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0129	0.000033
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	0.00037	#N/A	#N/A	#N/A	#N/A	#N/A	111	0.0744	0.00002
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	107	0.00738	0.000113
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.632	0.0001
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.639	0.0001
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.22	0.0001
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	0.00014						47.7	0.0446	0.000031
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	68.7	0.0592	0.00003
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	48.5	0.0502	0.00002
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	537	7.2	0.000041
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	0.00016	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0967	0.00002
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0909	0.00002
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.384	0.00002
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	0.00023	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	10.5	0.000035
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	154	0.0262	0.000051
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	193	4.45	0.00002
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	69.4	0.0102	0.000035
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0492	0.0001

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Zirconium (Zr)	Total Tungsten (W)	Total Thorium (Th)	Total Cesium (Cs)	Total Tellurium (Te)	Total Rubidium (Rb)	Dissolved Hardness (CaCO3)	Dissolved Aluminum (Al)	Dissolved Antimony (Sb)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0001	0.0001	0.0001	0.00001	0.0002	0.0002	0.5	0.0005	0.00002
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.032	0.0001
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	0.00015	#N/A	#N/A	#N/A	#N/A	#N/A	28.7	0.037	0.00002
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	0.00013	#N/A	#N/A	#N/A	#N/A	#N/A	63.3	0.0347	0.00002
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	0.00019	#N/A	#N/A	#N/A	#N/A	#N/A	51.5	0.0272	0.00002
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	0.00019						21.1	0.0389	0.00002
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	0.00027	#N/A	#N/A	#N/A	#N/A	#N/A	18.1	0.0623	0.00002
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	0.00021	#N/A	#N/A	#N/A	#N/A	#N/A	25.1	0.0662	0.000035
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0149	0.00198
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	272	0.00432	0.000738
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	0.00011						60.3	0.0263	0.000121
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	0.0001						62.3	0.0135	0.000289
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	128	0.0254	0.000223
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	118	0.01	0.000299
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	0.00013						79.2	0.0214	0.000192
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	139	0.0118	0.000269
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	188	0.0105	0.000263
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	0.00013	#N/A	#N/A	#N/A	#N/A	#N/A	133	0.00708	0.000178
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	128	0.0104	0.000266
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	233	0.00921	0.000442
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	98.7	0.00889	0.000221
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	127	0.0101	0.000343
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	208	0.00748	0.000736
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0224	0.000152
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0105	0.000274
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0081	0.000354
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	0.00023	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.00753	0.000574
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0107	0.000539
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	0.00013	#N/A	#N/A	#N/A	#N/A	#N/A	133	0.00708	0.000178
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	178	0.00594	0.000182
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	0.00011	#N/A	#N/A	#N/A	#N/A	#N/A	171	0.00573	0.000224
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	130	0.00671	0.00023
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	203	0.00858	0.00021
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	95.1	0.00729	0.000191
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	123	0.00914	0.000258
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	190	0.00733	0.000206
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	0.00012						#N/A	0.0681	0.000278
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	0.00011	#N/A	#N/A	#N/A	#N/A	#N/A	382	0.00451	0.000506
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	0.00018	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.00555	0.00077

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Zirconium (Zr)	Total Tungsten (W)	Total Thorium (Th)	Total Cesium (Cs)	Total Tellurium (Te)	Total Rubidium (Rb)	Dissolved Hardness (CaCO3)	Dissolved Aluminum (Al)	Dissolved Antimony (Sb)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0001	0.0001	0.0001	0.00001	0.0002	0.0002	0.5	0.0005	0.00002
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.00209	0.000298
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	0.00025						15.5	0.06	0.000134
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	0.00015	#N/A	#N/A	#N/A	#N/A	#N/A	87.4	0.0301	0.000088
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	0.0002	0.00047	0.0001	0.000067	0.0002	0.00282	#N/A	0.0959	0.00028
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	0.0002	0.00066	0.0001	0.000063	0.0002	0.00295	#N/A	0.023	0.00027
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	0.0002	0.00068	0.0001	0.000072	0.0002	0.00388	#N/A	0.0202	0.00036
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	54.8	0.0159	0.000178
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.00552	0.000142
ULU-4a		Portal Pond	Portal pond area	2024-07-30	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.00342	0.000172
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0041	0.000306
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.00637	0.000336
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.00011	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0317	0.000332
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	0.00022						79.1	0.0198	0.000359
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	0.00012						107	0.00783	0.000211
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	125	0.0059	0.000278
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.00045	#N/A	#N/A	#N/A	#N/A	#N/A	216	0.00357	0.000368
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	0.00024	0.0001	0.0001	0.000071	0.0002	0.00416	#N/A	0.018	0.0005
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	0.00015						43.1	0.0234	0.000112
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	44.5	0.02	0.000337
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.00015	#N/A	#N/A	#N/A	#N/A	#N/A	87.2	0.0149	0.000227
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	0.0002	0.0001	0.0001	0.000025	0.0002	0.00493	#N/A	0.0072	0.00015
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	166	0.00692	0.000162
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	192	0.00506	0.000116
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	223	0.00822	0.000177
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	0.00013	#N/A	#N/A	#N/A	#N/A	#N/A	259	0.00883	0.000175
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	168	0.00845	0.000213
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	242	0.00813	0.000185
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	0.00025	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0217	0.000229
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	0.00035	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.00848	0.000177
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	-0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.00694	0.000204
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	149	0.00508	0.000169
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0221	0.00015
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	0.00017						36.9	0.0277	0.000094
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	0.0002	#N/A	#N/A	#N/A	#N/A	#N/A	83.6	0.0154	0.000056

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Total Zirconium (Zr)	Total Tungsten (W)	Total Thorium (Th)	Total Cesium (Cs)	Total Tellurium (Te)	Total Rubidium (Rb)	Dissolved Hardness (CaCO3)	Dissolved Aluminum (Al)	Dissolved Antimony (Sb)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.0001	0.0001	0.0001	0.00001	0.0002	0.0002	0.5	0.0005	0.00002
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	0.00014	#N/A	#N/A	#N/A	#N/A	#N/A	89.1	0.0155	0.000045
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	96.2	0.0214	0.000053
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	0.00011	#N/A	#N/A	#N/A	#N/A	#N/A	157	0.015	0.000054
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	0.00018	#N/A	#N/A	#N/A	#N/A	#N/A	80.1	0.0174	0.000078
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	0.00012	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0245	0.000087
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	0.00024	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0283	0.000054
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	0.00013	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.023	0.000047
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	0.00021	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0229	0.000024
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	0.0116	0.0002
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.00012						71.2	0.0106	0.000168
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	168	0.00734	0.000122
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	124	0.00605	0.000144
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.00021						28.5	0.0483	0.000046
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	78.6	0.0273	0.000044
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	0.00014	#N/A	#N/A	#N/A	#N/A	#N/A	128	0.0308	0.000046
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.00015	#N/A	#N/A	#N/A	#N/A	#N/A	61.9	0.0266	0.000049
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	0.00015	#N/A	#N/A	#N/A	#N/A	#N/A	17.9	0.0723	0.000021
Ref-03		Camp impacted background		2023-06-13	0.00022	#N/A	#N/A	#N/A	#N/A	#N/A	26.8	0.0549	0.00002
Ref-03		Camp impacted background		2023-07-03	0.00027	#N/A	#N/A	#N/A	#N/A	#N/A	39.3	0.0543	0.00002
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	7.46	0.0473	0.00002
Ref-06		Background		2023-06-13	0.0001	#N/A	#N/A	#N/A	#N/A	#N/A	7.13	0.0484	0.00002
Ref-06		Background		2023-07-03	0.00013	#N/A	#N/A	#N/A	#N/A	#N/A	11.9	0.0524	0.00002
Notes													
Renamed ID's													
Italics <DL													
Calculated from other value													

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Arsenic (As)	Dissolved Barium (Ba)	Dissolved Beryllium (Be)	Dissolved Bismuth (Bi)	Dissolved Boron (B)	Dissolved Cadmium (Cd)	Dissolved Calcium (Ca)	Dissolved Chromium (Cr)	Dissolved Cobalt (Co)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00002	0.00002	0.00001	0.000005	0.01	0.000005	0.05	0.0001	0.000005
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	0.00174	0.0271	0.0001	0.00005	0.0503	0.000163	87	0.00012	0.00066
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	0.00169	0.0264	0.0001	0.00005	0.0696	0.000226	83.4	0.00011	0.00131
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	0.00173	0.0397	0.0001	0.00005	0.067	0.000523	131	0.00012	0.00151
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	0.0021	0.00783	0.00001	0.000005	0.028	0.0000859	35.3	0.00013	0.00286
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	0.000487	0.0136	0.00001	0.000005	0.04	0.0000412	103	0.0001	0.000133
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	0.00192	0.0185	0.00005	0.000025	0.092	0.000546	160	0.00079	0.0594
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	0.000796	0.0159	0.00001	0.000005	0.067	0.000122	140	0.00012	0.00669
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	0.00173	0.0183	0.00001	0.000005	0.075	0.000244	208	0.0001	0.0339
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	0.00208	0.0176	0.00001	0.000005	0.08	0.00016	133	0.0001	0.022
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	0.00158	0.00477	0.00001	0.000005	0.021	0.0000369	19.5	0.00018	0.00137
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	0.00101	0.00914	0.00001	0.000005	0.027	0.0000158	79.9	0.0001	0.000195
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	0.00148	0.0178	0.00001	0.000005	0.068	0.0000374	142	0.0001	0.000546
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	0.00164	0.0212	0.00005	0.000025	0.082	0.000257	142	0.0005	0.0209
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	0.0018	0.0289	0.00001	0.000005	0.08	0.000348	122	0.00011	0.00367
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	0.00046	0.0291	0.0001	0.00005	0.096	0.0000247	112	0.00013	0.0112
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	0.00029	0.0223	0.0001	0.00005	0.0761	0.0000631	74.9	0.0001	0.0124
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	0.00033	0.0184	0.363	0.00005	0.535	0.000146	95.4	0.00083	0.0435
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	0.00067	0.0219	0.0001	0.00005	0.105	0.0000073	95.1	0.0001	0.0235
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	0.000235	0.00837	0.00001	0.000005	0.066	0.0000149	26.9	0.0001	0.00237
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	0.000206	0.00443	0.00001	0.000005	0.011	0.000023	7.11	0.0001	0.0037
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	0.000474	0.0172	0.00001	0.000005	0.134	0.0000223	66.5	0.0001	0.0101
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	0.000612	0.0265	0.00001	0.000005	0.153	0.0000325	102	0.00011	0.0448
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	0.000734	0.028	0.00001	0.000005	0.137	0.000005	176	0.00011	0.0425
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	0.000587	0.0188	0.000013	0.000005	0.01	0.0000131	36.5	0.00022	0.00508
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	0.000116	0.00715	0.00001	0.000005	0.021	0.0000127	35	0.0001	0.000883
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	0.00134	0.02	0.00015	0.00005	0.035	0.000191	51.2	0.0001	0.101
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	0.00103	0.0167	0.00016	0.00005	0.0496	0.00017	43.5	0.0001	0.0756
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	0.00083	0.0195	0.0001	0.00005	0.0867	0.000241	50.1	0.0001	0.0748
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	0.000128	0.00631	0.00001	0.000005	0.015	0.0000374	15.5	0.0001	0.0161
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	0.000086	0.00783	0.000025	0.000005	0.029	0.000114	22	0.0001	0.0361
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	0.000103	0.00587	0.000018	0.000005	0.029	0.000043	15.8	0.0001	0.0196
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	0.00002	0.0365	0.000909	0.000005	0.082	0.00051	176	0.0001	0.251
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	0.000195	0.00652	0.00001	0.000005	0.01	0.0000197	6.87	0.0001	0.0107
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	0.000057	0.00549	0.00003	0.000005	0.023	0.0000595	14.7	0.0001	0.0202
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	0.00002	0.0126	0.000113	0.000005	0.048	0.000212	27.6	0.0001	0.0735
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	0.00002	0.046	0.00136	0.000005	0.145	0.000728	149	0.00012	0.359
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.000131	0.0261	0.00002	0.000005	0.052	0.0000586	47.7	0.0001	0.0118
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.000046	0.0222	0.000718	0.000005	0.052	0.000605	57.2	0.0001	0.22
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.000357	0.0143	0.00001	0.000005	0.012	0.000011	19.3	0.00011	0.000353
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	0.00016	0.0194	0.0001	0.00005	0.0192	0.0000445	19.6	0.0001	0.00016

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Arsenic (As)	Dissolved Barium (Ba)	Dissolved Beryllium (Be)	Dissolved Bismuth (Bi)	Dissolved Boron (B)	Dissolved Cadmium (Cd)	Dissolved Calcium (Ca)	Dissolved Chromium (Cr)	Dissolved Cobalt (Co)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00002	0.00002	0.00001	0.000005	0.01	0.000005	0.05	0.0001	0.000005
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	0.00015	0.0223	0.0001	0.000005	0.0139	0.0000318	22	0.00011	0.0001
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	0.000109	0.00609	0.00001	0.000005	0.012	0.0000058	8.26	0.0001	6.02E-05
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	0.00012	0.0159	0.00001	0.000005	0.014	0.0000199	18.4	0.0001	0.000117
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	0.000095	0.0112	0.00001	0.000005	0.016	0.000012	14.9	0.0001	3.63E-05
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	0.000143	0.00774	0.00001	0.000005	0.013	0.000005	6.57	0.0001	0.000039
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	0.000154	0.00742	0.000011	0.000005	0.02	0.000005	5.56	0.00011	4.74E-05
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	0.000227	0.0116	0.000013	0.000005	0.014	0.000005	7.39	0.00019	5.91E-05
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	0.00196	0.0165	0.0001	0.00005	0.0464	0.0000373	81.8	0.0001	0.0138
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	0.00139	0.0249	0.00001	0.000005	0.044	0.0000096	99.7	0.0001	0.00043
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	0.000358	0.0106	0.00001	0.000005	0.022	0.0000164	20.1	0.0001	0.0041
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	0.000349	0.0086	0.00001	0.000005	0.013	0.0000152	20.8	0.0001	0.00206
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	0.000364	0.0166	0.00001	0.000005	0.018	0.0000237	42.8	0.0001	0.00432
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	0.00038	0.0144	0.00001	0.000005	0.032	0.0000073	40.6	0.0001	0.000198
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	0.000171	0.00737	0.00001	0.000005	0.019	0.0000067	26.1	0.00011	0.000177
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	0.000198	0.0137	0.00001	0.000005	0.027	0.0000118	44.9	0.0001	0.000192
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	0.000205	0.0178	0.00001	0.000005	0.031	0.0000216	62.9	0.0001	0.000369
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	0.000194	0.0132	0.00001	0.000005	0.023	0.0000093	42.9	0.0001	0.00012
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	0.000191	0.012	0.00001	0.000005	0.025	0.00001	43.1	0.0001	0.000318
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	0.0003	0.0212	0.00001	0.000005	0.038	0.0000153	78.8	0.00011	0.000421
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	0.000312	0.00846	0.00001	0.000005	0.026	0.0000111	33.2	0.0001	0.000289
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	0.000497	0.0124	0.00001	0.000005	0.026	0.0000113	41.2	0.0001	0.000408
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	0.000522	0.0214	0.00001	0.000005	0.039	0.0000206	70.4	0.0001	0.000345
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	0.000486	0.00394	0.00001	0.000005	0.012	0.0000103	10	0.0001	0.00345
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	0.000363	0.00751	0.00001	0.000005	0.023	0.0000064	28.3	0.0001	0.000174
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	0.000373	0.0116	0.00001	0.000005	0.035	0.0000111	41.3	0.0001	0.00027
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	0.000409	0.023	0.00001	0.000005	0.046	0.000023	72.8	0.0001	0.000377
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	0.000458	0.0227	0.00001	0.000005	0.049	0.0000276	77.9	0.0001	0.00117
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	0.000194	0.0132	0.00001	0.000005	0.023	0.0000093	42.9	0.0001	0.00012
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	0.00019	0.0161	0.00001	0.000005	0.027	0.0000125	58.9	0.0001	0.000273
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	0.000186	0.0139	0.00001	0.000005	0.029	0.000016	57.8	0.0001	0.000322
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	0.000163	0.0121	0.00001	0.000005	0.021	0.0000084	43.4	0.0001	0.000297
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	0.000265	0.0187	0.00001	0.000005	0.029	0.0000067	67.5	0.0001	0.00025
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	0.000148	0.00742	0.00001	0.000005	0.025	0.000005	32.1	0.0001	0.000227
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	0.000253	0.0112	0.00001	0.000005	0.023	0.0000068	39.9	0.0001	0.000344
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	0.000298	0.0193	0.00001	0.000005	0.032	0.0000104	63.6	0.0001	0.000284
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	0.000593	0.0225	0.00001	0.000005	0.029	0.000218	35.5	0.00016	0.000301
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	0.000837	0.0364	0.00001	0.000005	0.155	0.000394	129	0.0001	0.000304
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	0.00064	0.032	0.00001	0.000005	0.055	0.0000606	51.8	0.00014	0.00022

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Arsenic (As)	Dissolved Barium (Ba)	Dissolved Beryllium (Be)	Dissolved Bismuth (Bi)	Dissolved Boron (B)	Dissolved Cadmium (Cd)	Dissolved Calcium (Ca)	Dissolved Chromium (Cr)	Dissolved Cobalt (Co)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00002	0.00002	0.00001	0.000005	0.01	0.000005	0.05	0.0001	0.000005
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	0.000844	0.0282	0.00001	0.000005	0.169	0.000155	102	0.0001	8.95E-05
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	0.0229	0.00328	0.00001	0.000005	0.01	0.0000075	5.46	0.00011	0.000361
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	0.00332	0.0168	0.00001	0.000005	0.019	0.0000253	28	0.0001	0.00135
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	0.00313	0.0121	0.0001	0.00005	0.0088	0.0000827	17.6	0.00036	0.00238
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	0.00182	0.0125	0.0001	0.00005	0.0074	0.0000667	18.8	0.00027	0.00208
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	0.00256	0.0155	0.0001	0.00005	0.0097	0.0000652	26.1	0.00062	0.00188
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	0.00181	0.011	0.00001	0.000005	0.011	0.0000635	16.6	0.00017	0.00192
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	0.000332	0.0105	0.00001	0.000005	0.015	0.000139	19.2	0.0001	0.00574
ULU-4a		Portal Pond	Portal pond area	2024-07-30	0.000471	0.0123	0.00001	0.000005	0.021	0.0000644	25.4	0.0001	0.00103
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	0.0161	0.00825	0.00001	0.000005	0.012	0.0000117	31.1	0.0001	0.00129
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	0.0286	0.0142	0.00001	0.000005	0.015	0.000005	55.7	0.0001	0.000368
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.00201	0.0116	0.000014	0.0000063	0.01	0.0000352	20.8	0.00015	0.00124
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	0.000931	0.0112	0.00001	0.000005	0.012	0.0000497	26.5	0.00015	0.00227
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	0.00286	0.0115	0.00001	0.000005	0.036	0.0000203	37.1	0.0001	0.00054
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.00324	0.014	0.00001	0.000005	0.03	0.0000119	44.9	0.00018	0.000294
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.00176	0.0237	0.00001	0.000005	0.042	0.0000167	78.1	0.0001	0.000167
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	0.00174	0.0171	0.0001	0.00005	0.0199	0.0000087	42.2	0.0001	0.00011
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	0.00119	0.00506	0.00001	0.000005	0.012	0.0000106	14.1	0.0001	0.00195
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.00296	0.00462	0.00001	0.000005	0.026	0.0000081	15	0.0001	0.00144
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.000994	0.00828	0.00001	0.000005	0.036	0.000011	29.3	0.0001	0.00166
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	0.00053	0.0237	0.0001	0.00005	0.0182	0.0000707	63.1	0.00014	0.00012
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	0.000398	0.0167	0.00001	0.000005	0.019	0.0000215	52.9	0.0001	0.000195
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	0.000375	0.0157	0.00001	0.000005	0.02	0.0000292	62.1	0.00014	0.000262
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	0.00042	0.0239	0.00001	0.000005	0.025	0.0000617	75.5	0.0001	0.000278
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	0.000484	0.0248	0.00001	0.000005	0.024	0.0000491	84.6	0.00018	0.000222
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	0.00036	0.0184	0.00001	0.000005	0.051	0.0000436	56.9	0.0001	0.000146
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	0.000382	0.0224	0.00001	0.000005	0.036	0.0000496	78.1	0.00015	0.000186
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	0.000667	0.007	0.00001	0.000005	-0.01	0.0000322	14.9	0.0001	0.000639
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	0.000473	0.013	0.00001	0.000005	0.033	0.0000388	36.2	0.0001	0.000145
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	0.000356	0.0179	0.00001	0.000005	0.039	0.0000382	55.3	0.0001	0.000138
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	0.000249	0.0143	0.00001	0.000005	0.037	0.0000237	50.4	0.0001	7.56E-05
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	0.00063	0.0181	0.0001	0.00005	0.0073	0.000125	39.6	0.00012	0.00094
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	0.00035	0.00726	0.00001	0.000005	0.014	0.0000121	12.2	0.0001	8.17E-05
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	0.00025	0.0138	0.00001	0.000005	0.019	0.0000361	25.5	0.0001	0.00012

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Arsenic (As)	Dissolved Barium (Ba)	Dissolved Beryllium (Be)	Dissolved Bismuth (Bi)	Dissolved Boron (B)	Dissolved Cadmium (Cd)	Dissolved Calcium (Ca)	Dissolved Chromium (Cr)	Dissolved Cobalt (Co)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00002	0.00002	0.00001	0.000005	0.01	0.000005	0.05	0.0001	0.000005
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	0.000292	0.0152	0.00001	0.000005	0.022	0.0000565	28.2	0.0001	0.000162
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	0.00025	0.0219	0.00001	0.000005	0.021	0.0000448	31.2	0.0001	0.000399
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	0.000343	0.0243	0.00001	0.000005	0.025	0.0000729	49.5	0.0001	0.000208
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	0.000364	0.013	0.00001	0.000005	0.024	0.0000232	26.6	0.0001	0.000105
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	0.000542	0.00536	0.00001	0.000005	0.011	0.0000131	7.77	0.0001	0.000119
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	0.0003	0.00734	0.00001	0.000005	0.011	0.0000179	12.3	0.00013	0.000135
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	0.000269	0.0121	0.00001	0.000005	0.016	0.0000353	21.4	0.0001	0.000151
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	0.000469	0.0198	0.00001	0.000005	0.023	0.000176	37.7	0.0001	0.000551
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	0.00062	0.0139	0.0001	0.00005	0.0188	0.0000348	30.4	0.00015	0.0001
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.000358	0.00769	0.00001	0.000005	0.014	0.0000263	23.5	0.0001	7.82E-05
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.00021	0.0189	0.00001	0.000005	0.02	0.0000508	55.2	0.0001	0.000132
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.000221	0.0119	0.00001	0.000005	0.034	0.0000225	41.3	0.0001	7.44E-05
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.000124	0.00449	0.000015	0.000005	0.01	0.0000226	8.66	0.00012	0.000111
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.000112	0.0146	0.000017	0.000005	0.01	0.0000642	23.7	0.0001	0.000129
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	0.000137	0.022	0.000015	0.000005	0.01	0.000109	38.1	0.0001	0.000141
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.00009	0.00986	0.000016	0.000005	0.014	0.0000571	19	0.0001	0.000136
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	0.000113	0.00749	0.00003	0.000005	0.01	0.0000151	4.84	0.00016	3.57E-05
Ref-03		Camp impacted background		2023-06-13	0.00009	0.00743	0.000017	0.000005	0.012	0.00001	7.32	0.0001	2.83E-05
Ref-03		Camp impacted background		2023-07-03	0.000084	0.0133	0.000024	0.000005	0.017	0.000015	10.6	0.0001	3.42E-05
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	0.000124	0.00219	0.000013	0.000005	0.062	0.0000074	2.03	0.00016	0.000215
Ref-06		Background		2023-06-13	0.000054	0.00182	0.000017	0.000005	0.01	0.0000137	2.02	0.0001	6.85E-05
Ref-06		Background		2023-07-03	0.000054	0.00321	0.000015	0.000005	0.012	0.0000114	3.51	0.00018	9.76E-05
Notes													
Renamed ID's													
Italics <DL													
Calculated from other value													

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Copper (Cu)	Dissolved Iron (Fe)	Dissolved Lead (Pb)	Dissolved Lithium (Li)	Dissolved Magnesium (Mg)	Dissolved Manganese (Mn)	Dissolved Mercury (Hg)	Dissolved Molybdenum (Mo)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00005	0.001	0.000005	0.0005	0.05	0.00005	0.0000019	0.00005
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	0.00285	0.026	0.00005	0.0117	12.7	0.0881	0.000005	0.000387
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	0.00288	0.029	0.00005	0.0116	11.9	0.204	0.000005	0.000384
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	0.00237	0.02	0.00005	0.0129	23.3	0.441	0.000005	0.000187
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	0.00359	0.0374	0.0000236	0.00542	5.86	0.34	0.0000047	0.000202
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	0.00135	0.0047	0.0000104	0.00877	11.9	0.00621	0.0000019	0.00009
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	0.00239	0.0578	0.00045	0.0253	19.3	0.527	0.0000019	0.00075
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	0.00135	0.0117	0.0000097	0.0174	14.1	0.0958	0.0000019	0.000255
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	0.00163	0.0083	0.000012	0.018	17.1	0.55	0.0000019	0.000851
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	0.00159	0.0114	0.0000129	0.0158	14.7	0.617	0.0000023	0.000702
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	0.00395	0.0426	0.000014	0.00361	3.19	0.178	0.0000062	0.000166
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	0.00193	0.0085	0.0000151	0.00686	12.1	0.0135	0.0000019	0.000097
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	0.00194	0.0171	0.0000251	0.0151	20.3	0.0388	0.0000019	0.000164
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	0.00181	0.0393	0.000143	0.016	17.2	1.02	0.0000019	0.0009
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	0.00268	0.0738	0.0000141	0.00957	19.2	1.27	0.0000019	0.000187
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	0.00097	0.524	0.00005	0.015	20.7	0.13	0.000005	0.00007
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	0.00154	0.283	0.00005	0.011	12.6	0.0772	0.000005	0.000211
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	0.00291	0.12	0.00005	0.019	14.6	0.222	0.000005	0.000323
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	0.00089	1.48	0.00005	0.0124	17.8	0.275	0.000005	0.00012
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	0.00161	0.117	0.0000117	0.00264	4.56	0.0258	0.0000019	0.000054
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	0.00189	0.0545	0.0000231	0.00103	1.23	0.0855	0.0000026	0.00005
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	0.000644	0.271	0.000013	0.00711	11.1	0.0958	0.0000019	0.00008
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	0.000504	0.825	0.0000079	0.0126	19.5	0.41	0.0000019	0.00005
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	0.000346	2.53	0.0000106	0.0166	28.3	0.593	0.0000019	0.000176
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	0.00137	0.851	0.0000508	0.0041	4.84	0.163	0.0000104	0.000145
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	0.00229	0.166	0.0000088	0.0017	4.83	0.0872	0.0000022	0.000097
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	0.0263	0.017	0.000052	0.0127	6.84	0.398	0.000005	0.000512
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	0.0211	0.049	0.000104	0.0113	5.66	0.359	0.000005	0.000171
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	0.0112	0.017	0.00005	0.0086	10.9	0.946	0.000005	0.0001
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	0.00296	0.197	0.0000141	0.00232	2.18	0.109	0.0000037	0.000126
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	0.00321	0.0151	0.0000142	0.00471	3.37	0.327	0.0000019	0.00005
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	0.00351	0.0786	0.000008	0.00365	2.17	0.121	0.0000019	0.00005
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	0.0682	0.0668	0.000156	0.0411	23.8	0.916	0.0000019	0.00005
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	0.00465	0.35	0.0000226	0.00169	1.13	0.0928	0.0000026	0.000207
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	0.00393	0.0232	0.0000187	0.00429	2.57	0.141	0.0000019	0.00005
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	0.0139	0.0118	0.0000274	0.0101	5.48	0.484	0.0000019	0.00005
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	0.138	0.0792	0.000352	0.0367	22.9	1.86	0.0000019	0.000053
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.00216	0.0792	0.0000056	0.00522	8.54	0.21	0.0000019	0.00005
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0447	0.07	0.000315	0.021	12.2	1.54	0.0000019	0.00005
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.00183	0.0714	0.0000212	0.00116	5.15	0.0318	0.0000031	0.00005
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	0.0026	0.013	0.00005	0.0011	4.93	0.00723	0.000005	0.00005

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Copper (Cu)	Dissolved Iron (Fe)	Dissolved Lead (Pb)	Dissolved Lithium (Li)	Dissolved Magnesium (Mg)	Dissolved Manganese (Mn)	Dissolved Mercury (Hg)	Dissolved Molybdenum (Mo)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00005	0.001	0.000005	0.0005	0.05	0.00005	0.0000019	0.00005
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	0.00194	0.01	0.000005	0.001	6.32	0.00981	0.000005	0.00005
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	0.00159	0.0152	0.0000078	0.0005	1.96	0.00153	0.0000021	0.00005
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	0.00201	0.015	0.0000103	0.0005	4.23	0.00316	0.0000019	0.00005
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	0.00138	0.0096	0.0000067	0.0005	3.48	0.000551	0.0000019	0.00005
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	0.00195	0.0113	0.0000074	0.00131	1.14	0.000296	0.000003	0.00005
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	0.00283	0.0205	0.000012	0.00111	1.04	0.000449	0.0000029	0.00005
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	0.00373	0.0178	0.000011	0.00153	1.62	0.000379	0.0000037	0.00005
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	0.00306	0.01	0.000005	0.0076	7.55	0.0512	0.0000005	0.00172
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	0.00158	0.002	0.0000101	0.00855	5.65	0.00227	0.0000019	0.00174
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	0.0022	0.0158	0.0000211	0.00166	2.47	0.0184	0.0000023	0.000547
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	0.00116	0.009	0.0000189	0.0019	2.52	0.0161	0.0000019	0.000748
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	0.00198	0.0105	0.0000279	0.00269	5.17	0.0209	0.0000019	0.000988
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	0.00156	0.0031	0.0000119	0.00234	4.06	0.000168	0.0000019	0.00158
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	0.00222	0.0105	0.000013	0.00083	3.42	0.00123	0.0000037	0.000458
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	0.00218	0.0047	0.000008	0.00166	6.45	0.00394	0.0000019	0.000423
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	0.00316	0.0072	0.000128	0.00179	7.6	0.00624	0.0000019	0.000387
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	0.00174	0.0051	0.0000074	0.00137	6.31	0.00117	0.0000019	0.000263
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	0.00216	0.0033	0.0000184	0.00176	4.92	0.00197	0.0000019	0.000388
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	0.00238	0.0047	0.0000207	0.00315	8.77	0.00368	0.0000019	0.000717
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	0.00224	0.0042	0.0000147	0.00176	3.81	0.00139	0.0000023	0.000472
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	0.0031	0.0048	0.0000204	0.00219	5.92	0.00251	0.0000019	0.000677
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	0.00226	0.0085	0.0000209	0.0037	7.82	0.00568	0.0000019	0.000663
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	0.00175	0.0169	0.0000106	0.00158	1.33	0.0282	0.0000019	0.000152
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	0.0022	0.0099	0.0000089	0.00187	3.89	0.00202	0.0000019	0.000405
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	0.0022	0.0044	0.0000133	0.00199	5.55	0.00338	0.0000019	0.000486
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	0.00244	0.0072	0.000018	0.0028	10.3	0.0105	0.0000019	0.000656
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	0.00261	0.0112	0.0000333	0.00416	12	0.0207	0.0000019	0.000614
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	0.00174	0.0051	0.0000074	0.00137	6.31	0.00117	0.0000019	0.000263
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	0.00195	0.0071	0.0000384	0.00149	7.44	0.00417	0.0000019	0.000169
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	0.0022	0.0122	0.000142	0.00131	6.57	0.00571	0.0000019	0.000314
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	0.00189	0.0035	0.0000225	0.00141	5.16	0.00077	0.0000019	0.000224
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	0.00178	0.0039	0.0000091	0.00154	8.45	0.00234	0.0000019	0.000173
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	0.00188	0.0038	0.0000244	0.0011	3.64	0.000997	0.000003	0.000144
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	0.00256	0.004	0.000031	0.00137	5.71	0.00155	0.0000019	0.000225
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	0.00173	0.0075	0.0000081	0.0019	7.43	0.00722	0.0000019	0.000233
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	0.00408	0.0894	0.0000674	0.00207	5.21	0.0246	0.0000019	0.000314
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	0.00442	0.0304	0.0000681	0.00254	14.4	0.0333	0.0000025	0.00113
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	0.00241	0.0163	0.0000207	0.00321	5.7	0.015	0.0000019	0.00228

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Copper (Cu)	Dissolved Iron (Fe)	Dissolved Lead (Pb)	Dissolved Lithium (Li)	Dissolved Magnesium (Mg)	Dissolved Manganese (Mn)	Dissolved Mercury (Hg)	Dissolved Molybdenum (Mo)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00005	0.001	0.000005	0.0005	0.05	0.00005	0.0000019	0.00005
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	0.00296	0.0086	0.0000213	0.00188	11.6	0.00301	0.0000019	0.00078
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	0.00115	0.0576	0.0000919	0.0005	0.457	0.00767	0.0000019	0.000085
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	0.00332	0.0153	0.0000159	0.00375	4.24	0.0127	0.0000019	0.000083
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	0.00675	0.236	0.000226	0.0028	3.07	0.0366	0.000005	0.000497
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	0.00366	0.12	0.000123	0.0029	3.59	0.0381	0.000005	0.000404
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	0.00334	0.16	0.00011	0.0032	4.93	0.0813	0.000005	0.00109
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	0.00251	0.104	0.000137	0.00322	3.24	0.0238	0.0000021	0.000283
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	0.00248	0.017	0.0000318	0.00387	4	0.0308	0.0000019	0.000195
ULU-4a		Portal Pond	Portal pond area	2024-07-30	0.00175	0.0203	0.0000192	0.00419	5.1	0.016	0.0000019	0.000298
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	0.000682	0.0061	0.0000053	0.00457	2.79	0.0228	0.0000019	0.000301
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	0.000954	0.0012	0.0000064	0.00547	3.93	0.00718	0.0000019	0.000503
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.00274	0.0138	0.0000734	0.00182	2.12	0.0153	0.0000019	0.000258
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	0.00141	0.0231	0.0000355	0.00237	3.17	0.0137	0.0000019	0.000284
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	0.00201	0.0085	0.0000256	0.00168	3.54	0.03	0.0000019	0.000362
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.00258	0.0052	0.0000172	0.0021	3.17	0.00367	0.0000019	0.000406
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.00287	0.003	0.000013	0.00243	5.04	0.00163	0.0000019	0.000878
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	0.00299	0.017	0.00005	0.0055	5.9	0.00093	0.000005	0.000341
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	0.00389	0.0133	0.0000315	0.00149	1.9	0.00658	0.0000019	0.000132
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.00421	0.0135	0.0000331	0.00283	1.71	0.00631	0.0000019	0.000173
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.00396	0.0101	0.0000158	0.00226	3.41	0.00548	0.0000019	0.000145
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	0.00256	0.01	0.00005	0.0011	12.4	0.00811	0.000005	0.000131
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	0.00231	0.0028	0.0000126	0.00055	8.3	0.000424	0.0000021	0.000333
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	0.00219	0.0043	0.0000094	0.0005	8.95	0.00113	0.0000019	0.000294
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	0.00206	0.006	0.0000201	0.00064	8.47	0.0148	0.0000023	0.00023
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	0.00233	0.0065	0.0000096	0.00063	11.7	0.00314	0.0000019	0.000275
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	0.00159	0.0043	0.0000147	0.00057	6.3	0.00268	0.0000019	0.000274
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	0.00254	0.0039	0.0000101	0.00062	11.4	0.00579	0.0000021	0.000285
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	0.00184	0.0201	0.0000377	0.00076	1.89	0.0101	0.0000019	0.000287
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	0.0014	0.006	0.0000087	0.00096	4.04	0.00399	0.0000019	0.0003
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	0.0018	0.0042	0.0000463	0.00063	7.28	0.00329	0.0000019	0.000411
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	0.00145	0.0028	0.0000103	0.00057	5.62	0.000597	0.0000019	0.000233
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	0.00276	0.01	0.00005	0.001	6.27	0.044	0.000005	0.000272
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	0.00177	0.0094	0.0000136	0.0005	1.59	0.000309	0.000002	0.000114
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	0.00173	0.0041	0.0000085	0.0005	4.85	0.00142	0.0000019	0.00014

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Copper (Cu)	Dissolved Iron (Fe)	Dissolved Lead (Pb)	Dissolved Lithium (Li)	Dissolved Magnesium (Mg)	Dissolved Manganese (Mn)	Dissolved Mercury (Hg)	Dissolved Molybdenum (Mo)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00005	0.001	0.000005	0.0005	0.05	0.00005	0.0000019	0.00005
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	0.00176	0.0046	0.0000079	0.0005	4.54	0.0035	0.0000019	0.000112
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	0.00182	0.0099	0.0000248	0.0005	4.44	0.00434	0.0000019	0.000097
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	0.00169	0.0148	0.0000083	0.0005	8.06	0.00312	0.0000019	0.000103
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	0.00191	0.0066	0.0000138	0.0005	3.34	0.00116	0.0000019	0.000136
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	0.00138	0.0141	0.0000151	0.0005	0.982	0.00237	0.0000022	0.000122
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	0.00219	0.0135	0.0000135	0.0005	1.77	0.00245	0.0000022	0.000112
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	0.0019	0.0098	0.0000125	0.0005	3.6	0.00198	0.0000019	0.000097
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	0.00236	0.0083	0.0000131	0.00154	9.59	0.0616	0.0000019	0.00005
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	0.00214	0.02	0.00005	0.001	5.15	0.00167	0.000005	0.000316
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.00142	0.0038	0.0000124	0.0005	3.06	0.00154	0.0000019	0.000277
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.00164	0.0024	0.0000142	0.0005	7.4	0.00115	0.0000019	0.000219
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.0014	0.0019	0.0000112	0.0005	5.04	0.000603	0.0000019	0.000242
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.00193	0.0087	0.0000148	0.0005	1.68	0.00089	0.000002	0.000084
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.00171	0.0048	0.0000158	0.0005	4.72	0.00115	0.0000019	0.00005
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	0.00192	0.0028	0.0000119	0.0005	8.12	0.00166	0.0000019	0.00005
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.00154	0.0081	0.0000126	0.0005	3.51	0.00157	0.0000021	0.00005
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	0.00231	0.0294	0.000017	0.00098	1.42	0.00149	0.0000045	0.00005
Ref-03		Camp impacted background		2023-06-13	0.00183	0.0198	0.0000105	0.00069	2.07	0.00182	0.0000019	0.00005
Ref-03		Camp impacted background		2023-07-03	0.00193	0.0221	0.0000085	0.0015	3.12	0.00342	0.0000023	0.00005
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	0.00208	0.0088	0.000021	0.0005	0.579	0.00894	0.0000051	0.000345
Ref-06		Background		2023-06-13	0.00169	0.0054	0.0000114	0.0005	0.505	0.000748	0.0000019	0.00005
Ref-06		Background		2023-07-03	0.00182	0.0104	0.0000156	0.0005	0.762	0.000666	0.0000019	0.000159
Notes												
Renamed ID's												
Italics <DL												
Calculated from other value												

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Nickel (Ni)	Dissolved Phosphorus (P)	Dissolved Potassium (K)	Dissolved Selenium (Se)	Dissolved Silicon (Si)	Dissolved Silver (Ag)	Dissolved Sodium (Na)	Dissolved Strontium (Sr)	Dissolved Sulphur (S)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00002	0.002	0.05	0.00004	0.05	0.000005	0.05	0.00005	3
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	0.0109	0.05	8.28	0.00069	3.37	0.00001	67.1	0.1	94.8
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	0.0109	0.05	7.16	0.000842	3.37	0.00001	48.6	0.0988	83.6
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	0.0203	0.05	10.4	0.000666	3.27	0.00001	135	0.169	137
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	0.00898	0.0156	3.83	0.000244	1.82	0.000005	11.5	0.0416	35.8
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	0.006	0.0033	5.34	0.000739	2.22	0.000005	11.7	0.0907	78.8
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	0.0418	0.013	9.25	0.00184	2.38	0.000025	7.28	0.156	155
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	0.011	0.0022	6.22	0.000942	2.35	0.000005	9.3	0.12	110
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	0.0167	0.0102	8.1	0.00155	2.37	0.000005	9.78	0.145	152
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	0.0111	0.002	7.33	0.000953	2.2	0.000005	13.5	0.139	134
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	0.00609	0.0117	2.34	0.000114	1.31	0.0000069	7.68	0.0221	15.1
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	0.00254	0.0056	4.45	0.000467	1.93	0.000005	19.8	0.0764	71
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	0.00379	0.0118	8.32	0.000727	3.04	0.000005	27.4	0.147	144
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	0.0127	0.011	7.96	0.00154	2.44	0.000025	17.7	0.135	133
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	0.0154	0.0151	8.49	0.000475	2.65	0.000005	75.3	0.171	136
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	0.0259	0.05	7.45	0.000656	3.18	0.00001	8.97	0.142	110
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	0.0234	0.05	5.75	0.00106	3.82	0.00001	5.73	0.0946	82.2
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	0.0459	0.05	6.76	0.00154	5.1	0.00001	8.68	0.117	100
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	0.0295	0.05	5.99	0.000206	2.41	0.00001	14.2	0.124	114
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	0.00661	0.0058	1.6	0.000225	1.19	0.000005	2.29	0.027	18.9
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	0.00347	0.0092	0.778	0.000057	0.396	0.000005	0.742	0.0085	3.9
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	0.0173	0.0067	2.56	0.000213	0.491	0.000005	6.42	0.058	61.3
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	0.041	0.01	4.16	0.000114	1.76	0.000005	9.07	0.11	113
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	0.039	0.002	7.5	0.00015	2.67	0.000005	10	0.173	176
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	0.0026	0.0118	2.04	0.000207	2.3	0.000005	0.891	0.0332	21.1
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	0.00108	0.0035	2.01	0.000203	1.62	0.000005	4.68	0.0332	25.1
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	0.0503	0.05	3.49	0.000997	4.09	0.00001	3.55	0.0674	51.7
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	0.0378	0.05	3.06	0.000877	4.51	0.00001	5.92	0.0572	44.8
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	0.0411	0.05	3.08	0.000956	4.19	0.00001	22.3	0.0782	57.4
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	0.00759	0.0042	1.12	0.000341	1.07	0.000005	1.58	0.0184	6.9
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	0.0196	0.0041	1.38	0.000534	1.45	0.000005	4.2	0.0299	22.6
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	0.00969	0.0022	1.06	0.00022	1.65	0.000005	1.85	0.0191	9.6
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	0.114	0.002	6.6	0.00232	5.42	0.000005	9.11	0.143	184
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	0.00492	0.0066	0.714	0.000104	0.871	0.0000139	0.792	0.0117	4.9
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	0.0106	0.003	0.934	0.00023	1.45	0.000005	2.21	0.0184	13.6
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	0.0374	0.0045	1.85	0.000438	2.68	0.000005	5.5	0.0376	31.3
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	0.168	0.0042	6.45	0.00371	5.3	0.000005	14	0.164	173
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0164	0.0047	1.9	0.000154	1.73	0.000005	7.78	0.072	52.3
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.102	0.0021	3.33	0.00146	4.61	0.000005	13.3	0.0772	77.9
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.00123	0.0031	1.32	0.00004	0.993	0.000005	2.67	0.0411	14.2
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	0.00279	0.05	1.06	0.00005	2.85	0.00001	4.76	0.0321	20.9

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Nickel (Ni)	Dissolved Phosphorus (P)	Dissolved Potassium (K)	Dissolved Selenium (Se)	Dissolved Silicon (Si)	Dissolved Silver (Ag)	Dissolved Sodium (Na)	Dissolved Strontium (Sr)	Dissolved Sulphur (S)
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00002	0.002	0.05	0.00004	0.05	0.000005	0.05	0.00005	3
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	0.00278	0.05	1.29	0.00005	3.25	0.00001	6.26	0.0378	28.5
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	0.00131	0.002	0.862	0.00004	1.03	0.000005	3.05	0.0111	5.2
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	0.00215	0.0021	1.3	0.00004	2.43	0.000005	5.94	0.0271	12.3
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	0.0014	0.0025	1.09	0.000052	1.5	0.000005	4.98	0.0202	12.9
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	0.000719	0.0029	0.781	0.00004	1.17	0.0000055	1.5	0.0197	3
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	0.00101	0.0043	0.581	0.000071	1.58	0.0000064	1.67	0.0216	3
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	0.00113	0.002	0.69	0.00004	2.32	0.0000052	2.52	0.0382	8.1
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	0.00903	0.05	6.31	0.00037	2.33	0.00001	3.19	0.0973	59.4
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	0.00104	0.004	5.15	0.000546	2.23	0.000005	2.79	0.11	61.9
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	0.00213	0.0042	1.86	0.000198	1.14	0.0000052	0.666	0.0224	10.4
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	0.00164	0.002	1.98	0.000122	0.727	0.000005	0.715	0.0214	12.3
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	0.00288	0.0065	3.22	0.000195	0.79	0.000005	1.04	0.0435	27.7
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	0.00156	0.0023	3.23	0.000191	0.901	0.000005	1.43	0.0361	21.7
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	0.00116	0.006	2.26	0.000187	1.16	0.000005	2.46	0.0287	7.6
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	0.00161	0.0043	3.57	0.000129	1.46	0.000005	5.02	0.0579	32.5
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	0.00194	0.0031	4	0.000185	1.5	0.000005	6.57	0.071	29.9
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	0.00115	0.0056	3.07	0.000084	0.826	0.000005	5.09	0.0548	30.8
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	0.0016	0.002	2.79	0.000152	1.39	0.000005	3.14	0.0462	35.8
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	0.00233	0.0021	5.05	0.000255	1.72	0.000005	5.09	0.0875	58.1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	0.00125	0.0021	2.28	0.000229	1.45	0.000005	2.86	0.032	20.1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	0.00232	0.002	3.38	0.00012	1.61	0.000005	4.42	0.0518	30.9
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	0.00215	0.002	5.13	0.000157	1.79	0.000005	5.19	0.0842	52.3
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	0.00257	0.005	0.797	0.000116	0.682	0.000005	0.714	0.0115	6.2
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	0.00132	0.002	2.17	0.000145	1.28	0.0000067	3.58	0.0296	16.6
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	0.00149	0.004	3.48	0.000142	1.53	0.000005	5.43	0.0465	25.1
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	0.00251	0.0048	5.68	0.000187	1.77	0.000005	9.14	0.0911	55.6
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	0.00326	0.0074	5.2	0.00036	2.05	0.0000071	13.1	0.102	72.2
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	0.00115	0.0056	3.07	0.000084	0.826	0.000005	5.09	0.0548	30.8
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	0.00146	0.0029	3.49	0.000082	0.731	0.000005	6.54	0.0636	30.1
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	0.00138	0.002	3.72	0.000158	1.12	0.000005	5.64	0.0643	26.5
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	0.00112	0.002	2.77	0.000166	0.781	0.0000056	3.47	0.0502	47.1
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	0.00107	0.0023	3.94	0.000074	0.764	0.000005	5.64	0.0807	52.7
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	0.000686	0.0031	2.17	0.000122	0.969	0.000005	3.47	0.031	18.1
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	0.00105	0.002	3.08	0.000078	1.06	0.000005	4.93	0.0517	31
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	0.00108	0.002	4.06	0.000062	1.34	0.000005	5.32	0.0791	46
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	0.00164	0.0154	2.75	0.000132	1.42	0.0000052	2.35	0.0693	13.6
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	0.00318	0.0132	9.26	0.000192	2.24	0.0000057	14.8	0.148	70.1
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	0.00114	0.0074	6.73	0.00013	1.37	0.000005	3.19	0.0862	29.3

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Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00002	0.002	0.05	0.00004	0.05	0.000005	0.05	0.00005	3
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	0.00179	0.0055	8.45	0.000195	1.81	0.000005	13.8	0.106	63.2
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	0.000829	0.0069	0.993	0.000045	0.378	0.000005	0.385	0.00553	3
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	0.00204	0.003	1.99	0.000088	2.41	0.0000058	9.22	0.1	7.9
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	0.00594	0.05	1.91	0.000106	1.51	0.000012	8.62	0.0264	13.9
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	0.00612	0.05	2.18	0.00011	1.41	0.00001	11.5	0.0311	15.2
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	0.00667	0.05	2.66	0.000124	1.66	0.00001	13.6	0.0409	19.8
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	0.00469	0.0062	1.83	0.000137	0.992	0.000005	9.51	0.0488	11
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	0.00716	0.002	1.71	0.000108	0.975	0.000005	9.2	0.0334	12.5
ULU-4a		Portal Pond	Portal pond area	2024-07-30	0.00632	0.0031	2.4	0.000048	1.05	0.000005	13.2	0.0457	16.7
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	0.00149	0.006	3.11	0.000189	0.892	0.000005	1.98	0.024	22.2
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	0.00103	0.002	5.1	0.000305	1.25	0.000005	2.79	0.04	34.7
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.00245	0.0094	2.21	0.000124	0.895	0.0000072	0.991	0.021	14.7
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	0.00329	0.0031	2.63	0.000198	1.15	0.000005	2.39	0.0311	21.4
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	0.00139	0.004	2.74	0.000317	1.5	0.000005	2.94	0.0403	10.2
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.00113	0.0059	3.95	0.000136	1.58	0.000005	2.43	0.0732	30
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.00169	0.0056	4.46	0.000158	2.49	0.000005	4.73	0.0733	34.2
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	0.00177	0.05	3.09	0.000121	3.02	0.00001	6.53	0.0588	29.5
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	0.00207	0.0066	1.24	0.000091	0.867	0.000005	1.29	0.016	3.8
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.00195	0.0077	1.47	0.000082	0.837	0.000005	1.01	0.02	7.3
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.00267	0.0056	1.57	0.000194	1.83	0.0000071	2.02	0.0314	11
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	0.00365	0.05	4.48	0.000187	2.28	0.00001	31.8	0.0905	53.3
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	0.00149	0.0069	3.33	0.000234	1.56	0.000005	9.54	0.0709	41.5
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	0.00218	0.0023	3.36	0.000317	1.83	0.000005	13.7	0.073	33
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	0.00258	0.0057	3.83	0.000243	1.67	0.000005	8.15	0.0825	62.3
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	0.00243	0.005	4.45	0.000173	1.86	0.000005	16.2	0.102	60.6
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	0.00174	0.0044	3.27	0.000134	1.39	0.0000066	7.5	0.062	30.5
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	0.00271	0.0063	4.48	0.000124	1.74	0.000005	11.8	0.0967	57
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	0.00151	0.0074	1.47	0.000095	0.696	0.000005	2.01	0.0168	7.7
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	0.00154	0.002	2.52	0.000118	1.15	0.000005	4.51	0.0386	19.9
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	0.00159	0.0063	3.87	0.0001	1.31	0.0000063	9.29	0.0673	43.3
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	0.00145	0.0037	2.81	0.000205	1.36	0.000005	7.5	0.0531	29.3
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	0.00767	0.05	3.19	0.000135	2.7	0.00001	9.94	0.0624	38
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	0.00199	0.0031	0.938	0.00004	1.13	0.000005	1.71	0.0151	4.3
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	0.00367	0.0054	1.94	0.000073	1.85	0.000005	9.38	0.046	25.7

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Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.00002	0.002	0.05	0.00004	0.05	0.000005	0.05	0.00005	3
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	0.00462	0.0021	1.86	0.000105	2.25	0.000005	9.57	0.0438	18.3
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	0.00363	0.0092	1.31	0.000085	1.65	0.000005	4.6	0.0464	30
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	0.0057	0.002	2.51	0.000127	2.44	0.000005	10.3	0.0755	50.4
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	0.00256	0.0029	1.37	0.000043	1.66	0.000005	3.25	0.0334	15.5
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	0.00142	0.0097	0.93	0.000053	0.623	0.000005	0.705	0.0103	3.7
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	0.00237	0.002	0.894	0.000045	1.27	0.000005	2.06	0.0169	8
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	0.00338	0.002	1.52	0.000055	1.72	0.000005	4.79	0.033	17.1
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	0.0109	0.002	3.13	0.000183	2.6	0.000005	16.9	0.068	45
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	0.00176	0.05	3.54	0.000134	1.94	0.00001	17.9	0.0451	24.4
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.00106	0.0023	1.96	0.000178	1.06	0.000005	2.68	0.0266	8.5
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.00167	0.008	2.89	0.000251	1.48	0.000005	8.95	0.0688	37.6
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.00108	0.0046	2.59	0.000108	1.4	0.000005	7.57	0.0462	22.3
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.000999	0.0036	0.733	0.000059	1.31	0.000005	1.45	0.0108	3.6
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.00122	0.0038	1.22	0.000142	1.63	0.000005	3.38	0.0333	21.4
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	0.00197	0.002	1.82	0.000044	2.21	0.000005	5.82	0.0527	34.3
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.00122	0.0026	1.05	0.000063	1.46	0.000005	3.06	0.0225	17.9
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	0.000956	0.0047	0.413	0.00004	1.58	0.000005	0.901	0.00932	3.1
Ref-03		Camp impacted background		2023-06-13	0.000892	0.0021	0.413	0.00004	1.95	0.0000059	1.28	0.0129	3
Ref-03		Camp impacted background		2023-07-03	0.00143	0.002	0.495	0.00004	3.21	0.000005	1.69	0.0201	3.5
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	0.000644	0.002	0.123	0.000091	1.21	0.0000062	0.766	0.00439	3
Ref-06		Background		2023-06-13	0.000645	0.002	0.136	0.000064	0.989	0.0000064	0.404	0.00389	3
Ref-06		Background		2023-07-03	0.000745	0.0026	0.168	0.000046	1.56	0.00001	0.47	0.00567	3
Notes													
Renamed ID's													
Italics <DL													
Calculated from other value													

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Thallium (Tl)	Dissolved Tin (Sn)	Dissolved Titanium (Ti)	Dissolved Uranium (U)	Dissolved Vanadium (V)	Dissolved Zinc (Zn)	Dissolved Zirconium (Zr)	Tungsten (W)- dissolved	Thorium (Th)- dissolved
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.000002	0.0002	0.0005	0.000002	0.0002	0.0001	0.0001	0.0001	0.0001
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	0.000011	0.0001	0.00041	0.000122	0.0005	0.0992	0.00033	0.0001	0.0001
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	0.000013	0.0001	0.00042	0.000122	0.0005	0.0961	0.00036	0.00043	0.0001
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	0.000017	0.0001	0.00036	0.000091	0.0005	0.172	0.0003	0.0001	0.0001
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	0.000004	0.0002	0.00057	0.000112	0.0002	0.0518	0.0004	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	0.0000035	0.0002	0.0005	0.0000416	0.0002	0.0374	0.00013	#N/A	#N/A
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	0.00001	0.001	0.0025	0.000618	0.001	0.307	0.0005	#N/A	#N/A
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	0.0000061	0.0002	0.0005	0.000158	0.0002	0.0781	0.0001	#N/A	#N/A
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	0.0000095	0.0002	0.0005	0.000265	0.0002	0.111	0.0001	#N/A	#N/A
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	0.0000083	0.0002	0.0005	0.00028	0.0002	0.0721	0.0001	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	0.0000046	0.0002	0.00082	0.000143	0.00023	0.0184	0.00039	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	0.0000027	0.0002	0.0005	0.0000794	0.0002	0.0107	0.0002	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	0.0000053	0.0002	0.0005	0.0000902	0.0002	0.0213	0.00011	#N/A	#N/A
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	0.00001	0.001	0.0025	0.000342	0.001	0.125	0.0005	#N/A	#N/A
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	0.0000124	0.0002	0.00059	0.0000873	0.0002	0.167	0.00019	#N/A	#N/A
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	0.00001	0.0001	0.0003	0.000014	0.0005	0.0561	0.0002	0.0001	0.0001
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	0.00001	0.0001	0.0003	0.000022	0.0005	0.0595	0.0003	0.0001	0.0001
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	0.000014	0.0001	0.0003	0.000038	0.0005	0.127	0.0003	0.0003	0.0001
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	0.00001	0.0001	0.0003	0.000018	0.0005	0.0293	0.0003	0.0001	0.0001
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	0.0000059	0.0002	0.0005	0.0000304	0.0002	0.00908	0.00016	#N/A	#N/A
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	0.0000022	0.0002	0.0005	0.0000248	0.0002	0.00945	0.0001	#N/A	#N/A
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	0.0000066	0.0002	0.0005	0.0000079	0.0002	0.0263	0.0001	#N/A	#N/A
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	0.0000108	0.0002	0.0005	0.0000037	0.0002	0.05	0.0001	#N/A	#N/A
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	0.0000022	0.0002	0.0005	0.0000158	0.0002	0.01	0.0001	#N/A	#N/A
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	0.000006	0.0002	0.00076	0.000045	0.00023	0.00515	0.00034	#N/A	#N/A
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	0.0000078	0.0002	0.0005	0.000177	0.0002	0.00207	0.0001	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	0.000023	0.0001	0.0003	0.000269	0.0005	0.112	0.0003	0.0001	0.0001
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	0.000021	0.0001	0.0003	0.000363	0.0005	0.0801	0.0003	0.00045	0.0001
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	0.000025	0.0001	0.0003	0.000432	0.0005	0.0682	0.0003	0.0001	0.0001
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	0.0000053	0.0002	0.0005	0.0000694	0.0002	0.0137	0.0001		
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	0.0000104	0.0002	0.0005	0.0000717	0.0002	0.0357	0.0001	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	0.0000054	0.0002	0.0005	0.000106	0.0002	0.0183	0.0001	#N/A	#N/A
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	0.000049	0.0002	0.0005	0.00334	0.0002	0.274	0.0001	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	0.000005	0.0002	0.0005	0.000138	0.0002	0.00964	0.00011	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	0.0000068	0.0002	0.0005	0.000193	0.0002	0.0208	0.0001	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	0.0000143	0.0002	0.0005	0.00044	0.0002	0.0781	0.0001	#N/A	#N/A
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	0.0000736	0.0002	0.0005	0.00765	0.0002	0.407	0.00018	#N/A	#N/A
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0000057	0.0002	0.0005	0.0000164	0.0002	0.0229	0.0001	#N/A	#N/A
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0000473	0.0002	0.0005	0.000838	0.0002	0.225	0.0001	#N/A	#N/A
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	0.0000042	0.0002	0.0005	0.0000284	0.0002	0.0089	0.0001	#N/A	#N/A
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	0.00001	0.0001	0.0003	0.000071	0.0005	0.0069	0.0003	0.00028	0.0001

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Thallium (Tl)	Dissolved Tin (Sn)	Dissolved Titanium (Ti)	Dissolved Uranium (U)	Dissolved Vanadium (V)	Dissolved Zinc (Zn)	Dissolved Zirconium (Zr)	Tungsten (W)- dissolved	Thorium (Th)- dissolved
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.000002	0.0002	0.0005	0.000002	0.0002	0.0001	0.0001	0.0001	0.0001
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	0.000001	0.0001	0.0003	0.00005	0.0005	0.0086	0.0003	0.0001	0.0001
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	0.000002	0.0002	0.0005	0.0000345	0.0002	0.00109	0.00012		
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	0.000002	0.0002	0.0005	0.000034	0.0002	0.0025	0.0002	#N/A	#N/A
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	0.000002	0.0002	0.0005	0.0000299	0.0002	0.00191	0.00018	#N/A	#N/A
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	0.000002	0.0002	0.0005	0.0000588	0.0002	0.00078	0.00014		
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	0.000002	0.0002	0.0005	0.000073	0.0002	0.00149	0.00027	#N/A	#N/A
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	0.000002	0.0002	0.0005	0.0000763	0.0002	0.00227	0.00034	#N/A	#N/A
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	0.00001	0.0001	0.0003	0.00126	0.0005	0.0173	0.0003	0.00048	0.0001
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	0.0000121	0.0002	0.0005	0.00138	0.0002	0.00116	0.0001	#N/A	#N/A
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	0.0000074	0.0002	0.0005	0.0002	0.0002	0.00452	0.0001		
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	0.0000077	0.0002	0.0005	0.000273	0.0002	0.00337	0.0001		
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	0.0000102	0.0002	0.0005	0.001	0.0002	0.00582	0.0001	#N/A	#N/A
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	0.0000078	0.0002	0.0005	0.000498	0.0002	0.00295	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	0.0000024	0.0002	0.0005	0.000162	0.0002	0.0007	0.00012		
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	0.0000024	0.0002	0.0005	0.000423	0.0002	0.0018	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	0.0000034	0.0002	0.0005	0.00072	0.0002	0.0015	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	0.0000025	0.0002	0.0005	0.000142	0.0002	0.0062	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	0.0000039	0.0002	0.0005	0.000189	0.0002	0.0024	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	0.0000045	0.0002	0.0005	0.000949	0.0002	0.0020	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	0.0000005	0.0002	0.0005	0.000173	0.0002	0.0012	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	0.0000039	0.0002	0.0005	0.000325	0.0002	0.0025	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	0.0000059	0.0002	0.0005	0.00102	0.0002	0.0022	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	0.0000002	0.0002	0.0005	0.0000861	0.0002	0.00462	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	0.0000034	0.0002	0.0005	0.00015	0.0002	0.0016	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	0.0000033	0.0002	0.0005	0.000292	0.0002	0.00162	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	0.0000085	0.0002	0.0005	0.00142	0.0002	0.00194	0.0001	#N/A	#N/A
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	0.0000063	0.0002	0.0005	0.00119	0.0002	0.00475	0.00022	#N/A	#N/A
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	0.0000025	0.0002	0.0005	0.000142	0.0002	0.0062	0.0001	#N/A	#N/A
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	0.000002	0.0002	0.0005	0.000221	0.0002	0.0012	0.0001	#N/A	#N/A
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	0.0000002	0.0002	0.0005	0.000299	0.0002	0.0026	0.00014	#N/A	#N/A
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	0.0000021	0.0002	0.0005	0.0000892	0.0002	0.0022	0.0001	#N/A	#N/A
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	0.0000034	0.0002	0.0005	0.000154	0.0002	0.0009	0.0001	#N/A	#N/A
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	0.0000028	0.0002	0.0005	0.0000642	0.0002	0.0009	0.0001	#N/A	#N/A
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	0.0000022	0.0002	0.0005	0.0001	0.0002	0.0016	0.0001	#N/A	#N/A
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	0.0000053	0.0002	0.0005	0.000297	0.0002	0.0008	0.0001	#N/A	#N/A
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	0.0000076	0.0002	0.00183	0.000735	0.0002	0.132	#N/A	#N/A	#N/A
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	0.0000216	0.0002	0.0005	0.00546	0.0002	0.293	0.00011	#N/A	#N/A
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	0.0000101	0.0002	0.0005	0.00164	0.0002	0.0837	0.0001	#N/A	#N/A

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Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.000002	0.0002	0.0005	0.000002	0.0002	0.0001	0.0001	0.0001	0.0001
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	0.0000168	0.0002	0.0005	0.0031	0.0002	0.0141	0.0001	#N/A	#N/A
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	0.0000036	0.0002	0.00179	0.0000305	0.0002	0.00053	0.0001		
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	0.0000093	0.0002	0.0005	0.0000661	0.0002	0.00469	0.00015	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	0.00001	0.0001	0.00305	0.000232	0.0005	0.167	#N/A	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	0.00001	0.0001	0.00039	0.000247	0.0005	0.171	0.0003	0.00068	0.0001
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	0.00001	0.0001	0.0003	0.000547	0.0005	0.15	0.0003	0.00059	0.0001
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	0.0000054	0.0002	0.0005	0.0000999	0.0002	0.131	0.0001	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	0.0000083	0.0002	0.0005	0.0000892	0.0002	0.206	0.0001	#N/A	#N/A
ULU-4a		Portal Pond	Portal pond area	2024-07-30	0.0000065	0.0002	0.0005	0.000228	0.0002	0.205	0.0001	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	0.0000062	0.0002	0.0005	0.0000791	0.0002	0.00169	0.0001	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	0.0000086	0.0002	0.0005	0.000409	0.0002	0.00119	0.0001	#N/A	#N/A
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	0.0000078	0.0002	0.0005	0.000157	0.0002	0.00349	0.0001	#N/A	#N/A
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	0.0000096	0.0002	0.0006	0.0000575	0.0002	0.0113	0.0001		
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	0.0000044	0.0002	0.0005	0.000176	0.0002	0.00423	0.0001		
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.0000075	0.0002	0.0005	0.000158	0.0002	0.00232	0.0001	#N/A	#N/A
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.0000122	0.0002	0.0005	0.000408	0.0002	0.0057	0.0001	#N/A	#N/A
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	0.00001	0.0001	0.00034	0.00012	0.0005	0.0039	0.0003	0.0001	0.0001
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	0.0000037	0.0002	0.0005	0.0000449	0.0002	0.00391	0.0001		
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	0.000004	0.0002	0.0005	0.0000167	0.0002	0.00235	0.0001	#N/A	#N/A
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	0.0000079	0.0002	0.0005	0.000116	0.0002	0.00445	0.00012	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	0.00001	0.0001	0.0003	0.000944	0.0005	0.0062	0.0003	0.0001	0.0001
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	0.0000066	0.0002	0.0005	0.000981	0.0002	0.00507	0.0001	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	0.0000053	0.0002	0.0005	0.000735	0.0002	0.00234	0.00012	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	0.0000096	0.0002	0.0005	0.00118	0.0002	0.00366	0.0001	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	0.0000102	0.0002	0.0005	0.00188	0.0002	0.00238	0.0001	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	0.0000072	0.0002	0.0005	0.000677	0.0002	0.00175	0.0001	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	0.0000103	0.0002	0.0005	0.00229	0.0002	0.00287	0.0001	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	0.0000045	0.0002	0.0005	0.0000701	0.0002	0.00274	0.0001	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	0.0000048	0.0002	0.0005	0.000198	0.0002	0.00227	0.0001	#N/A	#N/A
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	0.0000111	0.0002	0.0005	0.000916	0.0002	0.00263	0.0001	#N/A	#N/A
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	0.0000024	0.0002	0.0005	0.000165	0.0002	0.00241	0.0001	#N/A	#N/A
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	0.00001	0.0001	0.0003	0.00018	0.0005	0.0082	0.0003	0.0001	0.0001
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	0.000002	0.0002	0.0005	0.0000556	0.0002	0.00107	0.00014		
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	0.0000034	0.0002	0.0005	0.0000416	0.0002	0.00275	0.00017	#N/A	#N/A

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Dissolved Thallium (Tl)	Dissolved Tin (Sn)	Dissolved Titanium (Ti)	Dissolved Uranium (U)	Dissolved Vanadium (V)	Dissolved Zinc (Zn)	Dissolved Zirconium (Zr)	Tungsten (W)- dissolved	Thorium (Th)- dissolved
Units					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
DL					0.000002	0.0002	0.0005	0.000002	0.0002	0.0001	0.0001	0.0001	0.0001
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	0.0000034	0.0002	0.0005	0.0000403	0.0002	0.00299	0.00016	#N/A	#N/A
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	0.0000048	0.0002	0.0005	0.0000487	0.0002	0.00247	0.0001	#N/A	#N/A
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	0.0000045	0.0002	0.0005	0.0000364	0.0002	0.00364	0.00013	#N/A	#N/A
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	0.0000037	0.0002	0.0005	0.0000486	0.0002	0.00181	0.00017	#N/A	#N/A
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	0.0000002	0.0002	0.0005	0.0000384	0.0002	0.00134	0.0001	#N/A	#N/A
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	0.0000034	0.0002	0.0005	0.0000692	0.0002	0.00183	0.00027	#N/A	#N/A
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	0.0000034	0.0002	0.0005	0.0000601	0.0002	0.00204	0.00018	#N/A	#N/A
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	0.0000074	0.0002	0.0005	0.0000619	0.0002	0.0103	0.00019	#N/A	#N/A
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	0.000001	0.0001	0.0003	0.000166	0.0005	0.0025	0.0003	0.0001	0.0001
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.0000031	0.0002	0.0005	0.0000896	0.0002	0.00125	0.0001		
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.0000047	0.0002	0.0005	0.000232	0.0002	0.00194	0.0001	#N/A	#N/A
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.0000041	0.0002	0.0005	0.000144	0.0002	0.00091	0.0001	#N/A	#N/A
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	0.0000002	0.0002	0.0005	0.000116	0.0002	0.00107	0.00017		
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	0.0000041	0.0002	0.0005	0.0000804	0.0002	0.00234	0.0001	#N/A	#N/A
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	0.0000053	0.0002	0.0005	0.0000901	0.0002	0.00365	0.00011	#N/A	#N/A
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	0.0000042	0.0002	0.0005	0.000074	0.0002	0.00183	0.00011	#N/A	#N/A
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	0.0000002	0.0002	0.0005	0.000133	0.0002	0.00204	0.00013	#N/A	#N/A
Ref-03		Camp impacted background		2023-06-13	0.0000002	0.0002	0.0005	0.0000899	0.0002	0.00186	0.00027	#N/A	#N/A
Ref-03		Camp impacted background		2023-07-03	0.0000003	0.0002	0.0005	0.00011	0.0002	0.00286	0.00025	#N/A	#N/A
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	0.0000029	0.0002	0.0005	0.000117	0.0002	0.00168	0.0001	#N/A	#N/A
Ref-06		Background		2023-06-13	0.0000002	0.0002	0.0005	0.000117	0.0002	0.00196	0.0001	#N/A	#N/A
Ref-06		Background		2023-07-03	0.0000025	0.0002	0.0005	0.000119	0.0002	0.00268	0.00012	#N/A	#N/A
Notes													
Renamed ID's													
Italics <DL													
Calculated from other value													

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Cesium (Cs)- dissolved	Tellurium (Te)- dissolved	Rubidium (Rb)- dissolved	Interpretation	Ca	Mg	Na	K	Total
Units					mg/L	mg/L	mg/L	g/mol	40.08	24.31	22.99	39.09	
DL					0.00001	0.0002	0.0002		meq/L	meq/L	meq/L	meq/L	meq/L
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	0.00031	0.0002	0.0121		4.34	1.04	2.92	0.21	8.52
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	0.000191	0.0002	0.00922		4.16	0.98	2.11	0.18	7.44
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	0.000308	0.0002	0.0129		6.54	1.92	5.87	0.27	14.59
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	#N/A	#N/A	#N/A		1.76	0.48	0.50	0.10	2.84
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	#N/A	#N/A	#N/A		5.14	0.98	0.51	0.14	6.76
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	#N/A	#N/A	#N/A		7.98	1.59	0.32	0.24	10.13
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	#N/A	#N/A	#N/A		6.99	1.16	0.40	0.16	8.71
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	#N/A	#N/A	#N/A		10.38	1.41	0.43	0.21	12.42
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	#N/A	#N/A	#N/A		6.64	1.21	0.59	0.19	8.62
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	#N/A	#N/A	#N/A		0.97	0.26	0.33	0.06	1.63
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	#N/A	#N/A	#N/A		3.99	1.00	0.86	0.11	5.96
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	#N/A	#N/A	#N/A		7.09	1.67	1.19	0.21	10.16
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	#N/A	#N/A	#N/A		7.09	1.42	0.77	0.20	9.47
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	#N/A	#N/A	#N/A		6.09	1.58	3.28	0.22	11.16
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	0.000053	0.0002	0.0088		5.59	1.70	0.39	0.19	7.87
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	0.000043	0.0002	0.00698		3.74	1.04	0.25	0.15	5.17
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	0.000092	0.0002	0.00847		4.76	1.20	0.38	0.17	6.51
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	0.00006	0.0002	0.00837		4.75	1.46	0.62	0.15	6.98
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	#N/A	#N/A	#N/A		1.34	0.38	0.10	0.04	1.86
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	#N/A	#N/A	#N/A		0.35	0.10	0.03	0.02	0.51
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	#N/A	#N/A	#N/A		3.32	0.91	0.28	0.07	4.58
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	#N/A	#N/A	#N/A		5.09	1.60	0.39	0.11	7.20
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	#N/A	#N/A	#N/A		8.78	2.33	0.43	0.19	11.74
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	#N/A	#N/A	#N/A		1.82	0.40	0.04	0.05	2.31
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	#N/A	#N/A	#N/A		1.75	0.40	0.20	0.05	2.40
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	0.000176	0.0002	0.00775		2.55	0.56	0.15	0.09	3.36
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	0.000149	0.0002	0.00591		2.17	0.47	0.26	0.08	2.97
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	0.000215	0.0002	0.00731		2.50	0.90	0.97	0.08	4.45
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16					0.77	0.18	0.07	0.03	1.05
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	#N/A	#N/A	#N/A		1.10	0.28	0.18	0.04	1.59
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	#N/A	#N/A	#N/A		0.79	0.18	0.08	0.03	1.07
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	#N/A	#N/A	#N/A		8.78	1.96	0.40	0.17	11.31
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	#N/A	#N/A	#N/A		0.34	0.09	0.03	0.02	0.49
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	#N/A	#N/A	#N/A		0.73	0.21	0.10	0.02	1.06
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	#N/A	#N/A	#N/A		1.38	0.45	0.24	0.05	2.11
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	#N/A	#N/A	#N/A		7.44	1.88	0.61	0.17	10.09
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	#N/A	#N/A	#N/A		2.38	0.70	0.34	0.05	3.47
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	#N/A	#N/A	#N/A		2.85	1.00	0.58	0.09	4.52
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	#N/A	#N/A	#N/A		0.96	0.42	0.12	0.03	1.54
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	0.00001	0.0002	0.00146		0.98	0.41	0.21	0.03	1.62

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Cesium (Cs)- dissolved	Tellurium (Te)- dissolved	Rubidium (Rb)- dissolved	Interpretation	Ca	Mg	Na	K	Total
Units					mg/L	mg/L	mg/L	g/mol	40.08	24.31	22.99	39.09	
DL					0.00001	0.0002	0.0002		meq/L	meq/L	meq/L	meq/L	meq/L
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	0.00001	0.0002	0.0016		1.10	0.52	0.27	0.03	1.92
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16					0.41	0.16	0.13	0.02	0.73
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	#N/A	#N/A	#N/A		0.92	0.35	0.26	0.03	1.56
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	#N/A	#N/A	#N/A		0.74	0.29	0.22	0.03	1.27
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16					0.33	0.09	0.07	0.02	0.51
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	#N/A	#N/A	#N/A		0.28	0.09	0.07	0.01	0.45
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	#N/A	#N/A	#N/A		0.37	0.13	0.11	0.02	0.63
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	0.000338	0.0002	0.00871		4.08	0.62	0.14	0.16	5.00
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	#N/A	#N/A	#N/A		4.98	0.46	0.12	0.13	5.69
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14					1.00	0.20	0.03	0.05	1.28
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14					1.04	0.21	0.03	0.05	1.33
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	#N/A	#N/A	#N/A		2.14	0.43	0.05	0.08	2.69
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	#N/A	#N/A	#N/A		2.03	0.33	0.06	0.08	2.50
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19					1.30	0.28	0.11	0.06	1.75
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	#N/A	#N/A	#N/A		2.24	0.53	0.22	0.09	3.08
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	#N/A	#N/A	#N/A		3.14	0.63	0.29	0.10	4.15
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	#N/A	#N/A	#N/A		2.14	0.52	0.22	0.08	2.96
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	#N/A	#N/A	#N/A		2.15	0.40	0.14	0.07	2.76
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	#N/A	#N/A	#N/A		3.93	0.72	0.22	0.13	5.00
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	#N/A	#N/A	#N/A		1.66	0.31	0.12	0.06	2.15
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	#N/A	#N/A	#N/A		2.06	0.49	0.19	0.09	2.82
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	#N/A	#N/A	#N/A		3.51	0.64	0.23	0.13	4.51
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	#N/A	#N/A	#N/A		0.50	0.11	0.03	0.02	0.66
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	#N/A	#N/A	#N/A		1.41	0.32	0.16	0.06	1.94
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	#N/A	#N/A	#N/A		2.06	0.46	0.24	0.09	2.84
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	#N/A	#N/A	#N/A		3.63	0.85	0.40	0.15	5.02
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	#N/A	#N/A	#N/A		3.89	0.99	0.57	0.13	5.58
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	#N/A	#N/A	#N/A		2.14	0.52	0.22	0.08	2.96
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	#N/A	#N/A	#N/A		2.94	0.61	0.28	0.09	3.92
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	#N/A	#N/A	#N/A		2.88	0.54	0.25	0.10	3.77
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	#N/A	#N/A	#N/A		2.17	0.42	0.15	0.07	2.81
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	#N/A	#N/A	#N/A		3.37	0.70	0.25	0.10	4.41
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	#N/A	#N/A	#N/A		1.60	0.30	0.15	0.06	2.11
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	#N/A	#N/A	#N/A		1.99	0.47	0.21	0.08	2.75
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	#N/A	#N/A	#N/A		3.17	0.61	0.23	0.10	4.12
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	#N/A	#N/A	#N/A		1.77	0.43	0.10	0.07	2.37
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	#N/A	#N/A	#N/A		6.44	1.18	0.64	0.24	8.50
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	#N/A	#N/A	#N/A		2.58	0.47	0.14	0.17	3.36

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Cesium (Cs)- dissolved	Tellurium (Te)- dissolved	Rubidium (Rb)- dissolved	Interpretation	Ca	Mg	Na	K	Total
Units					mg/L	mg/L	mg/L	g/mol	40.08	24.31	22.99	39.09	
DL					0.00001	0.0002	0.0002		meq/L	meq/L	meq/L	meq/L	meq/L
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	#N/A	#N/A	#N/A		5.09	0.95	0.60	0.22	6.86
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19					0.27	0.04	0.02	0.03	0.35
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	#N/A	#N/A	#N/A		1.40	0.35	0.40	0.05	2.20
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	#N/A	#N/A	#N/A		0.88	0.25	0.37	0.05	1.55
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	0.000064	0.0002	0.00319		0.94	0.30	0.50	0.06	1.79
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	0.000066	0.0002	0.00361		1.30	0.41	0.59	0.07	2.37
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	#N/A	#N/A	#N/A		0.83	0.27	0.41	0.05	1.56
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A		0.96	0.33	0.40	0.04	1.73
ULU-4a		Portal Pond	Portal pond area	2024-07-30	#N/A	#N/A	#N/A		1.27	0.42	0.57	0.06	2.32
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	#N/A	#N/A	#N/A		1.55	0.23	0.09	0.08	1.95
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A		#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	#N/A	#N/A	#N/A		2.78	0.32	0.12	0.13	3.35
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	#N/A	#N/A	#N/A		1.04	0.17	0.04	0.06	1.31
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15					1.32	0.26	0.10	0.07	1.75
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15					1.85	0.29	0.13	0.07	2.34
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	#N/A	#N/A	#N/A		2.24	0.26	0.11	0.10	2.71
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	#N/A	#N/A	#N/A		3.90	0.41	0.21	0.11	4.63
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	0.000069	0.0002	0.00469		2.11	0.49	0.28	0.08	2.95
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15					0.70	0.16	0.06	0.03	0.95
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	#N/A	#N/A	#N/A		0.75	0.14	0.04	0.04	0.97
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	#N/A	#N/A	#N/A		1.46	0.28	0.09	0.04	1.87
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	0.000016	0.0002	0.00494		3.15	1.02	1.38	0.11	5.67
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	#N/A	#N/A	#N/A		2.64	0.68	0.41	0.09	3.82
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	#N/A	#N/A	#N/A		3.10	0.74	0.60	0.09	4.52
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	#N/A	#N/A	#N/A		3.77	0.70	0.35	0.10	4.92
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	#N/A	#N/A	#N/A		4.22	0.96	0.70	0.11	6.00
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	#N/A	#N/A	#N/A		2.84	0.52	0.33	0.08	3.77
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	#N/A	#N/A	#N/A		3.90	0.94	0.51	0.11	5.46
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	#N/A	#N/A	#N/A		0.74	0.16	0.09	0.04	1.02
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	#N/A	#N/A	#N/A		1.81	0.33	0.20	0.06	2.40
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	#N/A	#N/A	#N/A		2.76	0.60	0.40	0.10	3.86
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	#N/A	#N/A	#N/A		2.51	0.46	0.33	0.07	3.38
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	0.000012	0.0002	0.00345		1.98	0.52	0.43	0.08	3.01
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17					0.61	0.13	0.07	0.02	0.84
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	#N/A	#N/A	#N/A		1.27	0.40	0.41	0.05	2.13

Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Cesium (Cs)- dissolved	Tellurium (Te)- dissolved	Rubidium (Rb)- dissolved	Interpretation	Ca	Mg	Na	K	Total
Units					mg/L	mg/L	mg/L	g/mol	40.08	24.31	22.99	39.09	
DL					0.00001	0.0002	0.0002		meq/L	meq/L	meq/L	meq/L	meq/L
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	#N/A	#N/A	#N/A		1.41	0.37	0.42	0.05	2.24
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	#N/A	#N/A	#N/A		1.56	0.37	0.20	0.03	2.16
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	#N/A	#N/A	#N/A		2.47	0.66	0.45	0.06	3.65
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	#N/A	#N/A	#N/A		1.33	0.27	0.14	0.04	1.78
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	#N/A	#N/A	#N/A		0.39	0.08	0.03	0.02	0.52
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	#N/A	#N/A	#N/A		0.61	0.15	0.09	0.02	0.87
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	#N/A	#N/A	#N/A		1.07	0.30	0.21	0.04	1.61
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	#N/A	#N/A	#N/A		1.88	0.79	0.74	0.08	3.49
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	0.000012	0.0002	0.0041		1.52	0.42	0.78	0.09	2.81
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17					1.17	0.25	0.12	0.05	1.59
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	#N/A	#N/A	#N/A		2.75	0.61	0.39	0.07	3.83
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	#N/A	#N/A	#N/A		2.06	0.41	0.33	0.07	2.87
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17					0.43	0.14	0.06	0.02	0.65
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	#N/A	#N/A	#N/A		1.18	0.39	0.15	0.03	1.75
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	#N/A	#N/A	#N/A		1.90	0.67	0.25	0.05	2.87
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	#N/A	#N/A	#N/A		0.95	0.29	0.13	0.03	1.40
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	#N/A	#N/A	#N/A		0.24	0.12	0.04	0.01	0.41
Ref-03		Camp impacted background		2023-06-13	#N/A	#N/A	#N/A		0.37	0.17	0.06	0.01	0.60
Ref-03		Camp impacted background		2023-07-03	#N/A	#N/A	#N/A		0.53	0.26	0.07	0.01	0.87
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	#N/A	#N/A	#N/A		0.10	0.05	0.03	0.00	0.19
Ref-06		Background		2023-06-13	#N/A	#N/A	#N/A		0.10	0.04	0.02	0.00	0.16
Ref-06		Background		2023-07-03	#N/A	#N/A	#N/A		0.18	0.06	0.02	0.00	0.26
Notes													
Renamed ID's													
Italics <DL													
Calculated from other value													

CMR																	
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Ca	Mg	Na	K	Ca+Mg	Alkalinity	Cl	SO4	Total	Alkalinity	Cl	SO4	<0.8
Units										100	35.45	96.07	Ca+Mg/SO				
DL	Cation proportions				meq/L	meq/L	meq/L	meq/L	Anion proportions				4 mol/mol				
ULU-8	Ore pad E	Contact water?	Ore pad contact water SE (ULU-8/8A)	2020-07-31	51%	12%	34%	2%	63%	0.79	2.59	6.02	9.39	8%	28%	64%	0.90
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-07	56%	13%	28%	2%	69%	0.70	1.90	5.43	8.03	9%	24%	68%	0.95
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2020-08-26	45%	13%	40%	2%	58%	0.70	6.18	7.89	14.77	5%	42%	53%	1.07
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2022-06-06	62%	17%	18%	3%	79%	0.40	0.27	2.50	3.16	13%	8%	79%	0.90
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2023-06-12	76%	14%	8%	2%	90%	0.46	0.37	6.04	6.86	7%	5%	88%	1.01
ULU-8A	Ore pad E	Contact water	Ore pad contact water SE (ULU-8/8A)	2023-07-01	79%	16%	3%	2%	95%	0.64	0.08	10.20	10.92	6%	1%	93%	0.94
ULU-8	Ore pad E	Contact water	Ore pad contact water S	2023-07-03	80%	13%	5%	2%	94%	0.66	0.22	8.12	9.00	7%	2%	90%	1.00
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-07	84%	11%	3%	2%	95%	0.70	0.17	9.99	10.86	6%	2%	92%	1.18
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2023-07-16	77%	14%	7%	2%	91%	0.74	0.37	8.54	9.64	8%	4%	89%	0.92
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-05-26	60%	16%	21%	4%	76%	0.44	0.26	1.23	1.92	23%	13%	64%	1.01
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-06-18	67%	17%	14%	2%	84%	0.40	0.73	4.79	5.92	7%	12%	81%	1.04
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-07-15	70%	16%	12%	2%	86%	0.66	0.87	7.70	9.24	7%	9%	83%	1.14
ULU-8A	Ore pad E	Contact water	Ore pad contact water S	2024-07-19	75%	15%	8%	2%	90%	0.72	0.59	8.33	9.64	7%	6%	86%	1.02
ULU-8	Ore pad E	Contact water?	Ore pad contact water S	2024-08-13	55%	14%	29%	2%	69%	0.54	3.10	7.91	11.55	5%	27%	68%	0.97
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S (Seep-01, -22, -23)	2019-09-05	71%	22%	5%	2%	93%	0.42	0.06	6.85	7.32	6%	1%	94%	1.06
Seep-01	Ore pad S	Surface flow?	Ore pad tundra S	2020-07-31	72%	20%	5%	3%	92%	0.27	0.03	4.98	5.27	5%	0%	94%	0.96
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-07	73%	18%	6%	3%	92%	0.26	0.04	5.95	6.26	4%	1%	95%	1.00
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2020-08-26	68%	21%	9%	2%	89%	0.59	0.19	6.60	7.38	8%	3%	89%	0.94
Seep-01	Ore pad S	Stagnant water/Ore pad sub-surface drainage?	Ore pad tundra S	2023-06-10	72%	20%	5%	2%	92%	0.28	0.03	1.64	1.95	14%	1%	84%	1.04
SEEP-01	Ore pad S		Ore pad tundra S	2024-05-26	70%	20%	6%	4%	90%	0.13	0.03	0.35	0.51	25%	6%	69%	1.29
SEEP-01	Ore pad S		Ore pad tundra S	2024-06-18	73%	20%	6%	1%	92%	0.30	0.06	4.37	4.73	6%	1%	92%	0.97
SEEP-01	Ore pad S		Ore pad tundra S	2024-07-15	71%	22%	5%	1%	93%	0.26	0.07	7.08	7.41	4%	1%	96%	0.95
SEEP-01	Ore pad S		Ore pad tundra S	2024-08-12	75%	20%	4%	2%	95%	0.66	0.11	11.03	11.80	6%	1%	93%	1.01
Seep-22	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra W (Seep-01, -22, -23)	2023-06-10	79%	17%	2%	2%	96%	0.80	0.03	1.71	2.54	32%	1%	67%	1.30
Seep-23	Ore pad E	Ore pad sub-surface drainage in boulders	Ore pad tundra S (Seep-01, -22, -23)	2023-06-10	73%	17%	8%	2%	89%	0.66	0.12	1.71	2.49	27%	5%	69%	1.26
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW (Seep-05)	2020-07-31	76%	17%	5%	3%	93%	0.04	0.04	3.71	3.79	1%	1%	98%	0.84
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-07	73%	16%	9%	3%	89%	0.04	0.10	2.96	3.10	1%	3%	95%	0.89
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2020-08-26	56%	20%	22%	2%	76%	0.12	0.94	3.25	4.31	3%	22%	75%	1.05
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2021-06-16	74%	17%	7%	3%	91%	0.09	0.06	0.85	1.00	9%	6%	85%	1.12
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2022-06-30	69%	17%	11%	2%	86%	0.07	0.14	1.52	1.74	4%	8%	88%	0.90
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-06-09	73%	17%	7%	3%	90%	0.08	0.03	0.98	1.09	7%	3%	90%	0.99
Seep-05 SW	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2023-07-22	78%	17%	4%	1%	95%	0.02	0.17	13.95	14.14	0%	1%	99%	0.77
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-05-26	70%	19%	7%	4%	89%	0.07	0.03	0.42	0.52	14%	5%	81%	1.05
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-06-18	69%	20%	9%	2%	89%	0.06	0.06	0.92	1.03	5%	6%	89%	1.03
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra?	Ore pad tundra NW	2024-07-15	65%	21%	11%	2%	86%	0.02	0.12	1.81	1.96	1%	6%	93%	1.01
Seep-05	Ore pad W	Ore pad sub-surface drainage in tundra	Ore pad tundra NW	2024-08-12	74%	19%	6%	2%	92%	0.02	0.31	11.66	11.99	0%	3%	97%	0.80
Seep-05 SW +15	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	69%	20%	10%	1%	89%	0.18	0.19	3.75	4.13	4%	5%	91%	0.82
Seep-05 SW-50	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	63%	22%	13%	2%	85%	0.02	0.39	5.41	5.83	0%	7%	93%	0.71
Seep-05 SW-125	Ore pad N swamp	Ore pad sub-surface drainage in tundra?	NOT PLOTTED on regular charts	2023-07-22	63%	28%	8%	2%	90%	0.70	0.08	1.06	1.84	38%	4%	58%	1.31
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow (Seep-06)	2020-08-02	60%	25%	13%	2%	86%	0.12	0.07	1.44	1.63	7%	4%	88%	0.96

																	CMR
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Ca	Mg	Na	K	Ca+Mg	Alkalinity	Cl	SO4	Total	Alkalinity	Cl	SO4	<0.8
Units										100	35.45	96.07					Ca+Mg/SO
DL	Cation proportions									meq/L	meq/L	meq/L	meq/L	Anion proportions			4 mol/mol
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2020-08-27	57%	27%	14%	2%	84%	0.15	0.13	1.71	1.99	7%	7%	86%	0.95
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-06-16	57%	22%	18%	3%	79%	0.08	0.11	0.58	0.77	10%	14%	76%	0.98
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2021-09-01	59%	22%	17%	2%	81%	0.11	0.19	1.46	1.75	6%	11%	83%	0.87
Seep-06	Ore pad-East Lake	Ore pad-downstream flow into lake	Ore pad East Lk inflow	2023-06-12	58%	22%	17%	2%	81%	0.09	0.10	1.14	1.33	7%	7%	86%	0.90
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow (Seep-12)	2021-06-16	65%	19%	13%	4%	83%	0.11	0.11	0.27	0.49	23%	22%	55%	1.56
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-09	62%	19%	16%	3%	81%	0.11	0.03	0.27	0.41	27%	7%	67%	1.34
Seep-12	Ore pad-G43 Lake	Ore pad-downstream flow into lake	Ore pad G43 Lk inflow	2023-06-19	59%	21%	17%	3%	80%	0.11	0.07	0.35	0.53	20%	13%	67%	1.42
Seep-03	Camp pad N	Contact water?	Camp pad contact water E (Seep-03, -21)	2020-07-31	82%	12%	3%	3%	94%	1.37	0.05	3.85	5.28	26%	1%	73%	1.22
Seep-21	Camp pad N	Contact water?	Camp pad contact water E	2022-06-14	87%	8%	2%	2%	96%	1.48	0.24	4.37	6.09	24%	4%	72%	1.24
Seep-07	Camp pad N	Contact water	Camp pad contact water N (Seep-07, -08)	2021-06-14	78%	16%	2%	4%	94%	0.66	0.05	0.69	1.40	47%	4%	49%	1.76
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2021-06-14	78%	16%	2%	4%	94%	0.60	0.04	0.77	1.41	43%	3%	55%	1.62
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2022-06-13	79%	16%	2%	3%	95%	0.78	0.08	1.94	2.79	28%	3%	69%	1.32
Seep-08	Camp pad N	Contact water	Camp pad contact water N	2023-06-09	81%	13%	2%	3%	94%	1.14	0.06	1.48	2.68	43%	2%	55%	1.60
Seep-17	Drill core/Camp pad S	Tundra seep	Camp pad tundra E (Seep-17, -18, -20)	2021-06-19	74%	16%	6%	3%	91%	0.52	0.08	1.29	1.89	28%	4%	68%	1.23
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-07-29	73%	17%	7%	3%	90%	1.10	0.16	2.29	3.55	31%	5%	64%	1.21
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-08-26	76%	15%	7%	2%	91%	1.20	0.65	3.12	4.97	24%	13%	63%	1.21
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2021-09-01	72%	18%	7%	3%	90%	1.10	0.19	2.29	3.58	31%	5%	64%	1.16
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-06-27	78%	15%	5%	3%	92%	0.70	0.12	2.29	3.11	22%	4%	74%	1.12
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2022-07-24	79%	14%	4%	3%	93%	1.06	0.16	3.54	4.76	22%	3%	74%	1.31
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-12	77%	15%	6%	3%	92%	0.64	0.14	1.44	2.22	29%	6%	65%	1.37
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-06-19	73%	17%	7%	3%	90%	0.76	0.22	1.62	2.60	29%	8%	62%	1.57
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2023-07-27	78%	14%	5%	3%	92%	1.18	0.26	3.33	4.77	25%	5%	70%	1.25
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-05-26	76%	17%	5%	3%	92%	0.18	0.03	0.52	0.73	25%	4%	71%	1.17
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-06-10	73%	16%	8%	3%	89%	0.80	0.14	1.37	2.31	35%	6%	59%	1.26
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-07-06	72%	16%	8%	3%	89%	0.84	0.23	2.08	3.16	27%	7%	66%	1.21
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-13	72%	17%	8%	3%	89%	1.60	0.28	3.54	5.42	30%	5%	65%	1.27
Seep-17	Drill core/Camp pad	Tundra seep	Camp pad tundra E	2024-08-29	70%	18%	10%	2%	87%	1.54	0.65	4.37	6.56	23%	10%	67%	1.11
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-07-29	72%	18%	7%	3%	90%	1.10	0.19	2.29	3.58	31%	5%	64%	1.16
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-08-26	75%	16%	7%	2%	90%	1.10	0.65	2.91	4.66	24%	14%	62%	1.22
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2021-09-01	77%	14%	7%	3%	91%	1.04	0.45	2.91	4.41	24%	10%	66%	1.18
Seep-18	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-06-27	77%	15%	5%	3%	92%	0.64	0.15	2.29	3.08	21%	5%	74%	1.13
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2022-07-24	76%	16%	6%	2%	92%	0.92	0.17	3.33	4.43	21%	4%	75%	1.22
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-12	76%	14%	7%	3%	90%	0.62	0.18	1.42	2.22	28%	8%	64%	1.34
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-06-19	72%	17%	8%	3%	89%	0.74	0.26	1.64	2.64	28%	10%	62%	1.50
Seep-20	Drill core/Camp pad	Downstream flow in tundra	Camp pad tundra E	2023-07-27	77%	15%	6%	3%	92%	1.36	0.28	2.91	4.55	30%	6%	64%	1.30
ULU-15	Landfill	Pre-land fill run off from Camp pad S	Camp pad-landfill S (ULU-15)	2021-06-23	75%	18%	4%	3%	93%	1.02	0.25	1.54	2.81	36%	9%	55%	1.43
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2023-06-11	76%	14%	8%	3%	90%	2.60	0.79	5.83	9.22	28%	9%	63%	1.31
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-05-25	77%	14%	4%	5%	91%	1.60	0.10	1.96	3.66	44%	3%	53%	1.56

CMR																
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Ca	Mg	Na	K	Ca+Mg	Alkalinity	Cl	SO4	Total	Alkalinity	Cl	SO4
Units										100	35.45	96.07	Ca+Mg/SO			
DL										Cation proportions	meq/L	meq/L	meq/L	meq/L	Anion proportions	4 mol/mol
ULU-15	Landfill	Run off from Camp pad S/landfill/ore	Camp pad tundra S	2024-06-10	74%	14%	9%	3%	88%	2.40	0.37	5.00	7.76	31%	5%	64%
Seep-16	Portal	Contact water/snow melt	Portal area contact water (Seep-16, -24)	2021-06-19	77%	11%	5%	7%	88%	0.18	0.03	0.16	0.38	48%	9%	43%
Seep-24	Portal	Contact water	Portal area contact water	2023-06-10	64%	16%	18%	2%	79%	0.15	1.50	0.67	2.32	7%	65%	29%
ULU-4a	Portal	Portal Pond	Portal pond area (ULU-4a, 4b, Pool-4c)	2020-07-29	56%	16%	24%	3%	73%	#N/A	0.38	0.87	#N/A	#N/A	#N/A	#N/A
ULU-4a	Portal	Portal Pond	Portal pond area	2020-08-26	52%	17%	28%	3%	69%	0.45	0.46	0.86	1.78	26%	26%	49%
ULU-4a	Portal	Portal Pond	Portal pond area	2020-09-05	55%	17%	25%	3%	72%	0.63	0.52	1.15	2.31	27%	23%	50%
ULU-4a	Portal	Portal Pond	Portal pond area	2021-07-29	53%	17%	27%	3%	70%	0.46	0.56	0.90	1.92	24%	29%	47%
ULU-4a	Portal	Portal Pond	Portal pond area	2024-06-11	55%	19%	23%	3%	74%	0.48	0.56	1.10	2.15	22%	26%	51%
ULU-4a		Portal Pond	Portal pond area	2024-07-30	55%	18%	25%	3%	73%	0.62	0.76	1.10	2.48	25%	31%	44%
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-05-31	80%	12%	4%	4%	91%	0.38	0.08	1.62	2.09	18%	4%	78%
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-11	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
ULU-4b	Mine Sump	Water in mine sump pond	Portal pond area	2024-06-18	83%	10%	4%	4%	92%	0.84	0.10	2.29	3.23	26%	3%	71%
Pool-4c	Landfill/Portal	Temp pool next to ore, drains across roads	Portal pond area	2024-05-28	79%	13%	3%	4%	92%	0.44	0.03	0.90	1.36	32%	2%	66%
Seep-09	Waste rock pad	Contact water	Waste rock pad contact water (Seep-09)	2021-06-15	75%	15%	6%	4%	90%	0.42	0.09	1.29	1.80	23%	5%	72%
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water (Seep-10, -11, -25, ULU-7)	2021-06-15	79%	12%	5%	3%	92%	0.66	0.08	1.62	2.37	28%	3%	69%
Seep-10	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	83%	10%	4%	4%	92%	0.70	0.04	2.08	2.82	25%	1%	74%
Seep-25	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	84%	9%	4%	2%	93%	1.48	0.28	2.91	4.68	32%	6%	62%
ULU-7	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2020-07-31	71%	16%	10%	3%	88%	1.18	0.13	1.79	3.10	38%	4%	58%
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2021-06-15	74%	16%	6%	3%	91%	0.50	0.08	0.48	1.06	47%	7%	45%
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2022-06-06	77%	14%	5%	4%	92%	0.44	0.03	0.54	1.01	44%	3%	54%
Seep-11	Waste rock pad	Contact water	Waste rock pad/stockpile contact water	2023-06-11	78%	15%	5%	2%	93%	0.74	0.08	1.10	1.92	39%	4%	57%
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2020-08-27	56%	18%	24%	2%	74%	0.91	1.55	3.21	5.67	16%	27%	57%
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-07-29	69%	18%	11%	2%	87%	1.18	0.39	2.91	4.49	26%	9%	65%
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2021-09-01	69%	16%	13%	2%	85%	0.90	0.82	3.54	5.26	17%	16%	67%
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-06-28	77%	14%	7%	2%	91%	1.00	1.21	3.33	5.54	18%	22%	60%
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2022-07-24	70%	16%	12%	2%	86%	1.12	1.16	3.75	6.02	19%	19%	62%
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-06-11	75%	14%	9%	2%	89%	0.76	0.51	2.50	3.77	20%	13%	66%
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2023-07-08	71%	17%	9%	2%	89%	1.46	0.73	3.75	5.94	25%	12%	63%
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-05-25	73%	15%	9%	4%	88%	0.36	0.08	0.65	1.08	33%	7%	60%
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-06-10	75%	14%	8%	3%	89%	0.96	0.37	1.56	2.89	33%	13%	54%
Seep-02	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra	2024-07-06	71%	16%	10%	3%	87%	0.98	0.56	2.91	4.46	22%	13%	65%
Seep-26	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock pad tundra (Seep-02, -26)	2023-06-12	75%	14%	10%	2%	88%	0.60	0.56	2.29	3.45	17%	16%	66%
Seep-04	Waste rock pad	WR pad seep-surface flow in tundra	Waste rock stockpile tundra (Seep-04)	2020-08-01	66%	17%	14%	3%	83%	0.61	0.23	2.41	3.25	19%	7%	74%
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow (Seep-13)	2021-06-17	73%	16%	9%	3%	88%	0.24	0.06	0.56	0.86	28%	7%	65%
Seep-13	Waste rock pad-East l	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-07-29	60%	19%	19%	2%	79%	0.36	0.17	2.00	2.53	14%	7%	79%

																	CMR
Sample ID Convention	Area	Represents	Plotting group/Legend entry	Sampling Date	Ca	Mg	Na	K	Ca+Mg	Alkalinity	Cl	SO4	Total	Alkalinity	Cl	SO4	<0.8
Units										100	35.45	96.07					Ca+Mg/SO
DL										Cation proportions	meq/L	meq/L	meq/L	meq/L	Anion proportions		4 mol/mol
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2021-09-01	63%	17%	19%	2%	79%	0.30	0.17	2.04	2.51	12%	7%	81%	0.87
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-06-30	72%	17%	9%	2%	89%	0.24	0.12	2.06	2.42	10%	5%	85%	0.93
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2022-07-24	68%	18%	12%	2%	86%	0.28	0.16	3.12	3.57	8%	5%	88%	1.00
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2023-06-12	75%	15%	8%	2%	90%	0.09	0.09	1.33	1.51	6%	6%	88%	1.20
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-05-25	74%	15%	6%	5%	90%	0.20	0.03	0.35	0.58	34%	5%	61%	1.32
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-06-10	70%	17%	10%	3%	87%	0.64	0.03	0.71	1.38	47%	2%	51%	1.07
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-07-06	66%	18%	13%	2%	85%	0.28	0.07	1.37	1.72	16%	4%	80%	0.99
Seep-13	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock stockpile lake inflow	2024-08-29	54%	23%	21%	2%	77%	0.32	0.45	2.71	3.48	9%	13%	78%	0.99
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow (Seep-14, -15)	2020-08-27	54%	15%	28%	3%	69%	0.60	0.74	1.46	2.80	22%	26%	52%	1.33
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	74%	16%	7%	3%	90%	0.52	0.10	1.10	1.73	30%	6%	64%	1.29
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	72%	16%	10%	2%	88%	0.68	1.07	2.71	4.46	15%	24%	61%	1.24
Seep-14	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	72%	14%	11%	2%	86%	0.66	0.42	1.79	2.87	23%	15%	62%	1.38
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2021-06-17	66%	21%	10%	3%	87%	0.18	0.05	0.42	0.65	27%	8%	64%	1.37
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-06-30	68%	22%	8%	2%	90%	0.24	0.21	1.50	1.94	12%	11%	77%	1.05
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2022-07-25	66%	23%	9%	2%	90%	0.32	0.37	2.08	2.77	12%	13%	75%	1.23
Seep-15	Waste rock pad-East	WR pad-downstream flow into lake	Waste rock pad lake inflow	2023-06-11	68%	21%	10%	2%	89%	0.22	0.08	1.17	1.47	15%	6%	79%	1.06
Ref-03		Camp impacted background	Ref-03 (North of Camp)	2022-06-14	59%	29%	10%	3%	88%	0.13	0.18	0.02	0.33	40%	54%	6%	17.21
Ref-03		Camp impacted background		2023-06-13	61%	28%	9%	2%	89%	0.16	0.26	0.08	0.50	31%	52%	17%	6.43
Ref-03		Camp impacted background		2023-07-03	61%	29%	8%	1%	90%	0.20	0.54	0.10	0.83	24%	64%	12%	7.70
Ref-06		Background	Ref-06 (North of Ulu Lake)	2022-07-03	55%	26%	18%	2%	80%	0.09	0.03	0.07	0.19	46%	15%	39%	2.04
Ref-06		Background		2023-06-13	62%	25%	11%	2%	87%	0.07	0.03	0.07	0.17	40%	17%	43%	1.95
Ref-06		Background		2023-07-03	67%	24%	8%	2%	91%	0.11	0.03	0.11	0.25	43%	11%	46%	2.08
Notes																	
Renamed ID's																	
Italics <DL																	
Calculated from other value																	