MANITOBA ENVIRONMENT AND CLIMATE CHANGE

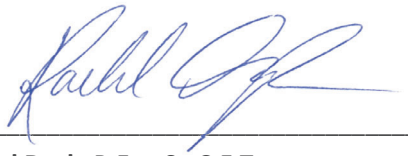
OAM Subprogram – Sherridon Mine Site 2024 Water Quality Summary Report

Revision:
Final/Rev 0

KGS Group Project:
21-1357-005

Date:
July 17, 2025

PREPARED BY:



Rachel Dyck, B.Env.S., C.E.T.
Environmental Scientist-Technologist

REVIEWED BY:

Ed Collins, P.Eng., FEC
Senior Environmental Engineer

APPROVED BY:

Alex Beveridge, P.Eng.
Environmental Assistant Department Head

EXECUTIVE SUMMARY

Kontzamanis Graumann Smith MacMillan Inc. (KGS Group) was contracted by the Orphaned and Abandoned Mines (OAM) Program of Manitoba Environment and Climate Change (MECC) for engineering services for the management of the Sherridon Mine Site. The 2024 scope of services for the Sherridon Mine Site included surface water quality monitoring on a biweekly basis during open water season within the following water bodies: Sherlett Creek, Camp Lake and Camp Lake discharge, Mixing Zone within Cold Lake, and Cold Lake (part of Kississing Lake). Additionally, spring and fall groundwater monitoring and sampling events at the 12 on-site monitoring wells were completed, as well as additional Sherlett Creek sampling during the two groundwater sampling trips was included in the 2024 monitoring program.

This report describes and provides the results of the 2024 water quality monitoring program for the project. The 2024 water quality monitoring program was the third year of monitoring following the completion of construction activities in August 2021 and represents the sixth full year of Sherlett Creek flow through Camp Lake in the absence of lime treatment.

The Sherridon Reclamation Project was initiated in 2006 with the commissioning of a reclamation plan and associated design for the site by the Province of Manitoba, which included four phases. Before reclamation was initiated, a baseline environmental study was performed in 2008 to assess site conditions prior to the start of reclamation activities, in areas affected and unaffected by the historical discharge from Camp Lake. From 2009 to 2012, reclamation activities commenced at the site and consisted of the relocation of 47 hectares of Sherridon tailings to Camp Lake, and the diversion of Sherlett Creek around Camp Lake to enable the deposition of tailings. From 2012 to 2021, reclamation activities involved the removal of remnant mine waste to decrease acid-generating sources contributing to the degradation of water quality within Camp Lake, as well as monitoring the water quality within Camp Lake to target further reclamation works. Batch lime treatments were used to neutralize pH and manage water quality until August 2018, when flow from Sherlett Creek was reestablished. Water quality modelling completed for the Sherridon Mine Site in 2008 projected that water quality within Camp Lake would approach that of the inflowing Sherlett Creek over a three to four year period. The model was based on several input terms, including precipitation and flow inputs, which can be variable and may affect the accuracy of the timeline.

Surface water quality in Manitoba is evaluated using the Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG), which is composed of Tier I standards, Tier II objectives, and Tier III guidelines. For the Sherridon Mine Site, the water sampling results are compared against the MWQSOG Tier II objectives and Tier III guidelines. The water sampling results for Camp Lake and the Camp Lake discharge are also compared to the Camp Lake Water Quality Performance Objectives (CLWQPO), which were developed within the Adaptive Management Plan (AMP) that governs the post-construction and post-closure periods of the reclamation project. The CLWQPO represents proposed targets that have been estimated to be achieved within three to four years post-construction considering the influent from Sherlett Creek is maintained and the system is operated as designed. Sherlett Creek and Cold Lake water sampling results are compared against the MWQSOG Tier II objectives and Tier III guidelines.

Since monitoring began in 2017, distinct correlations were observed between concentrations of key water quality parameters in Camp Lake and the amount of precipitation, and subsequently, flow through Sherlett

Creek. Compared to the last 10 years, the 2023/2024 water generating year was the second driest year (2022/2023 was slightly lower) and the fourth consecutive year of lower-than-average precipitation in the region. The 2024 open water sampling season recorded one heavy rainfall event during the June 11th sampling trip. Additionally, the month of June collectively recorded 122 mm of precipitation which has not occurred since 2020. Following June, precipitation levels declined rapidly and flow through Sherlett Creek was minimal from August to the end of open water monitoring in mid-late October. Flow was also affected by beaver activity at the notched cofferdam at the south end of Camp Lake which has been a persistent issue for the past two years. By the beginning of October, the beaver dam had completely restricted flow from passing through the cofferdam, therefore all available flow volume was being directed through the diversion channel.

In 2022 and 2023, conditions were present on Camp Lake where the water level on the lake was artificially raised by the addition of stop logs at the discharge weir. In combination with the reduced precipitation relative to previous years, the installation of the stop logs resulted in reduced inflows from Sherlett Creek into Camp Lake. Discharge flow over the Camp Lake weir ended by the end of July during both years due to the addition of the stop logs. During the October 4, 2023, sampling event field staff observed a blackflow of water from Camp Lake into the Sherlett Creek diversion channel. This event caused a subsequent investigation into the intended hydraulic design of the reclamation project and the intended operation of the north weir. A memo issued by Tetra Tech in March 2024, confirmed that the north weir is intended to be operated without stoplogs to maintain a positive flow from Sherlett Creek into Camp Lake. As configured, the Sherlett Creek inflows are split approximately 85% through Camp Lake and discharged through the north weir and 15% through the diversion and lower Sherlett Creek to maintain normal lake level conditions and provide sufficient alkalinity loading to Camp Lake (Tetra Tech, 2024). The memo recommended that due to the unnecessary addition of stoplogs beginning in 2022 and continuing to late 2023, the post-reclamation phase be extended for two years. The 2024 sampling year was operated as intended with no stoplogs installed at the Camp Lake north weir.

Sherlett Creek represents the background surface water quality before the creek inflows into Camp Lake. Sherlett Creek is essential to the water quality within Camp Lake for several reasons including the continuous supply of alkalinity for neutralizing pH within Camp Lake. In 2024, field pH levels and alkalinity concentrations at the background monitoring station on Sherlett Creek (SC-1) were consistent with previous years. As creek flows became reduced in late summer, field pH levels declined slightly whereas alkalinity concentrations increased (up to 40 mg $CaCO_3$/L compared to 36 mg $CaCO_3$/L in 2023). Total alkalinity concentrations measured at SC-1 in 2024 have been the highest recorded since sampling started in 2017. In accordance with the requirements specified in the AMP, sulphate was added as a key water quality parameter for analysis in 2023. Sulphate has not been analyzed in any prior monitoring years except for 2021. Sulphate concentrations in 2024 increased in spring from winter concentrations before steadily declining and reaching a seasonal low of 2.2 mg/L (on August 20) then increasing again until the end of open water sampling (9.8 mg/L). This pattern is different than 2021 and 2023 where sulphate concentrations started low over winter and into spring and then steadily increased throughout the open water season. Total aluminum concentrations were similar to previous years and were below MWQSOG Tier III guidelines except for two sampling events on June 25 and August 20, 2024. Total iron concentrations were below MWQSOG Tier III guidelines except for three occasions in late August and September (ranged from 0.37 mg/L to 0.48 mg/L), which is similar to 2022. In comparison, 2023 had eight sampling events with concentrations above guideline and 2021 had 13 events

above Tier III guideline. Total suspended solids (TSS) and turbidity results in 2024 remained low throughout open water sampling and showed no seasonal increase during low flow. Consistent since 2017, total cadmium, copper, and zinc concentrations were above their respective MWQSOG Tier II objectives for most of the 2024 open water sampling events. In 2024, concentrations of all three metals were affected by the high precipitation levels experienced in June but decreased and remained relatively low through the low flow period contrary to previous low flow years.

An important factor to consider in understanding water quality in Camp Lake and its potential effect on water quality in Cold Lake is the magnitude of inflow from Sherlett Creek entering the lake. The winter sampling events completed in March 2022 and February 2023 showed that there was not a substantial improvement of water quality under winter ice cover, as observed in previous years, which was attributed to the substantially reduced flows from Sherlett Creek in late summer through fall of both years. The winter sampling event completed on February 21, 2024, indicated an improvement once again in water quality for many key parameters under ice cover. The difference from the past two years was that the stoplogs at the discharge weir were removed at the end of the 2023 open water sampling season and remained that way through 2024. The absence of stoplogs at the discharge weir allowed flow (albeit limited) to continue from October 2023 until the lake froze completely (no flow over the discharge weir was observed during the winter sampling event on February 21, 2024). Recovery of key parameter concentrations were observed for alkalinity, TSS, turbidity, total iron, and aluminum. Concentrations of sulphate, alkalinity and total cadmium, copper and zinc did not recover to the same extent and measured values were similar to the winter sampling events in 2022 and 2023. A comparison of the metals concentrations between winter and spring provides an indication of the overall contribution of spring runoff (or lack thereof) to metals concentrations in Camp Lake. Concentrations of all key metals in 2024 increased from winter to spring to a greater extent (specifically in the East basin) than previous years which is attributed the combination of the lack of flushing from snow melt (in May) and a spike in precipitation in June. Overall, the monitoring results indicate that the high levels of precipitation in June contributed to metals loading to the lake, which is consistent with previous years of high precipitation in spring. From spring to mid-summer, concentrations of TSS, turbidity, sulphate, and the key total metals decreased due to maintained flow from Sherlett Creek into Camp Lake until late August. In previous years that have operated with no stoplogs at the discharge weir and have been dry (i.e., 2021), concentrations in late summer and fall have shown an increase as flows reduce. The same pattern was observed in 2024, however to a lesser extent and with less variation between basins. Concentrations of total cadmium and zinc were consistent with 2023 results and remained low through fall, however concentrations of TSS, turbidity, and iron reflected the biggest effect from low inflow volume and low water levels.

Alkalinity in Camp Lake reached seasonal highs in 2024 greater than any other seasonal high measured since 2017. As flows through the creek became reduced in August, concentrations slowly declined until the end of sampling in October, however final concentrations were still 3 – 10 times higher than final concentrations measured in 2022 and 2023.

Field pH measured above the CLWQPO minimum throughout the open water season except for all stations (excluding the South basin) on May 28, 2024. Turbidity measurements were above the CLWQPO during all sampling events, with the exception of July 10 and July 23 where all basins (except EB-1 and EB-2 on July 10) were below the CLWQPO. Total iron concentrations were above the CLWQPO during all sampling events, whereas TSS remained well below the CLWQPO. Sulphate concentrations at all Camp Lake sampling locations

exceeded the CLWQPO guideline throughout the open water season. Total aluminum, cadmium, and copper concentrations in all lake basins followed a fluctuating pattern of measuring above and below the CLWQPO. Concentrations in the East basin measured above the CLWQPO more often than the main lake axis basins. Total zinc concentrations measured above the CLWQPO at all Camp Lake basins in early spring and intermittently in summer. The East basin measured above the CLWQPO until early September before dropping below until the end of open water sampling.

A discharge over the north weir was observed at every sampling event in 2024, therefore Camp Lake water quality had the potential to affect water quality in Cold Lake throughout the open water season. Water quality results from Cold Lake throughout 2024 would be representative of conditions while the system is operating as intended (i.e., no stoplogs at the discharge weir). Cold Lake stations, including the mixing zone, all had field pH values within the MWQSOG Tier III guideline range throughout open water sampling, except on two occasions that were determined to be unrelated to the discharge. Alkalinity concentrations at all Cold Lake stations were maintained at a consistent level throughout 2024. TSS concentrations were also consistent throughout Cold Lake and measured well below the Tier II chronic objective. In June, turbidity and sulphate levels in the mixing zone appeared to be affected by the discharge; however, the higher levels did not affect any of the Cold Lake stations outside the mixing zone. Total iron, aluminum, cadmium, copper, and zinc within the mixing zone were generally higher in spring (compared to summer/fall), indicating influence from the discharge through the period of high precipitation. At Cold Lake stations outside the mixing zone, it is likely that the discharge had an effect on concentrations of cadmium, copper, and zinc in June and July. The high discharge flow coupled with a high percentage of dissolved metals measured at the discharge resulted in low residence time in the mixing zone which did not allow the metals to settle out. Despite the higher-than-normal values of total cadmium and zinc, concentrations did not reach background conditions at Cold Lake stations outside the mixing zone even during the high flow period. Concentrations of total copper at some Cold Lake stations were above the maximum background concentrations in July and early August.

Groundwater samples were collected from all 12 wells on site during the spring and fall sampling events. This was the fifth and sixth time that groundwater monitoring wells have been sampled since installation in January and February 2022. The wells located in the wetland area adjacent to Sherlett Creek, in the vicinity of the historic East Mine Workings Area, showed water quality parameters potentially indicative of exposure to naturally mineralized zones or potential mine waste, with the remaining wells to the north of Sherlett Creek and southwest along the bedrock ridge showing freshwater indicators. In the bedrock wells, higher concentrations were generally measured in the spring 2024 compared to the fall 2024, which is likely attributed to the high levels of precipitation experienced in June. In the overburden wells, higher concentrations of total metals were generally measured in the spring compared to the fall, however for routine water chemistry and dissolved metals, concentrations were generally consistent between seasons. Elevated metal concentrations were observed in most of the monitoring wells; however, no pattern to the distribution could be identified. When the 2024 results were compared against the results of the 2022 and 2023 groundwater monitoring events, higher concentrations of key metal and water quality parameters were generally observed in 2023 and 2024 compared to 2022.

The detailed sampling program on Sherlett Creek included sampling of five additional stations (SC-2 to SC-6) during the two groundwater monitoring events in spring and fall. The sampling stations are located upstream of background monitoring station SC-1, with SC-6 located at the mouth of Sherlett Lake. Previous sampling

events on Sherlett Creek have indicated that there is a source of metal contamination that enters the creek downstream of SC-4, and that the highest concentrations are present during periods of lower flows. In 2024, a similar pattern of higher concentrations downstream of SC-4 was noted.

One of the primary objectives of the Sherridon Reclamation Project is to prevent further degradation of Kississing Lake water quality related to runoff and discharge of mining impacted water from the former Sherridon Mine Site. During the 2024 open water season, the mean concentrations of key total metals and key dissolved metals in the Camp Lake discharge were 65% to 93% lower and 72% to 98% lower, respectively, then concentrations measured in September 2008, and the mean discharge pH was higher (pH of 6.93 compared to 3.4) relative to September 2008.

Recommendations for 2025 include continued environmental monitoring and capturing water levels on Camp Lake, as per the requirements of the AMP. No reduction in the sampling frequency is proposed for the 2025 monitoring year.

TABLE OF CONTENTS

1.0 INTRODUCTION 1

1.1 Scope of Work 1

2.0 SITE INFORMATION 2

2.1 Site Location 2

2.2 Background Information 2

2.2.1 Phasing of Reclamation Project 2

2.2.2 Summary of Reclamation Works 3

2.2.3 Water Quality Program 4

3.0 2023 ENVIRONMENTAL MONITORING PROGRAM 6

3.1 Biweekly Water Monitoring Program 6

3.2 Groundwater Sampling 7

3.2.1 Groundwater Elevations 9

4.0 RESULTS AND DISCUSSION 10

4.1 Precipitation and Observations of Flow 10

4.1.1 Camp Lake Water Level 11

4.2 Sherlett Creek 13

4.2.1 SC-1 14

4.2.2 Additional Creek Sampling Stations (SC-2 to SC-6) 17

4.3 Camp Lake and Camp Lake Discharge 18

4.3.1 pH, Alkalinity and Sulphate 18

4.3.2 TSS, Turbidity and Iron 20

4.3.3 Total Metals 23

4.4 Cold Lake 26

4.4.1 pH, Alkalinity And Sulphate 27

4.4.2 TSS, Turbidity and Iron 28

4.4.3 Total Metals 29

4.5 Discharge Toxicity 31

4.6 Groundwater Monitoring and Sampling 32
4.6.1 Routine and Field Parameters 32
4.6.2 Dissolved Metals 33
4.6.3 Total Metals 34
4.7 QA/QC 35
5.0 PROGRESS TOWARD PROTECTION OF KISSISSING LAKE 37
6.0 CONCLUSIONS 39
6.1 Sherlett Creek 39
6.2 Camp Lake 41
6.3 Cold Lake 44
6.4 Groundwater 45
7.0 RECOMMENDATIONS 46
8.0 REFERENCES 47

List of Tables

Table 1: Biweekly Surface Water Quality Monitoring Program 6
Table 2: Groundwater Monitoring Program 8
Table 3: 2024 Surface Water Field Chemistry
Table 4: 2024 Surface Water General Water Quality
Table 5: 2024 Dissolved Metals in Surface Water
Table 6: 2024 Total Metals in Surface Water
Table 7: Rainbow Trout 96 Hr LC50 Toxicity Results
Table 8: Estimated Monthly Precipitation for Sherridon, Manitoba 10
Table 9: Groundwater Monitoring and Field Chemistry (2022 – 2024)
Table 10: Groundwater General Water Quality (2022 – 2024)
Table 11: Dissolved Metals in Groundwater (2022 – 2024)
Table 12: Total Metals in Groundwater (2022 – 2024)
Table 13: Comparison of Key Parameter Concentrations in the Camp Lake Discharge (2008 to 2024)
Table 14: Comparison of Key Dissolved Metals Parameter Concentrations in Cold Lake (2008 to 2024)
Table 15: Comparison of Key Total Metals Parameter Concentrations in Cold Lake (2008 to 2024)

List of Figures

Figure 1: Site Plan and Surface Water Sampling Locations
Figure 2: Groundwater Monitoring Well Locations
Figure 3: Camp Lake Water Levels 12
Figure 4: Sherlett Creek – Field pH (2017 – 2024)
Figure 5: Sherlett Creek – Total Alkalinity (2017 – 2024)
Figure 6: Sherlett Creek – Total Suspended Solids (2017 – 2024)
Figure 7: Sherlett Creek – Lab Turbidity (2017 – 2024)
Figure 8: Sherlett Creek – Sulphate (2021 & 2024)
Figure 9: Sherlett Creek – Total Iron (2017 – 2024)
Figure 10: Sherlett Creek – Total Aluminum (2017 – 2024)
Figure 11: Sherlett Creek – Total Cadmium (2017 – 2024)

Figure 12: Sherlett Creek – Total Copper (2017 – 2024)

Figure 13: Sherlett Creek – Total Zinc (2017 – 2024)

Figure 14: Camp Lake and SC-1 – Field pH (2017 – 2024)

Figure 15: Camp Lake and SC-1 – Total Alkalinity (2017 – 2024)

Figure 16: Camp Lake and SC-1 – Total Suspended Solids (2017 – 2024)

Figure 17: Camp Lake and SC-1 – Lab Turbidity (2017 – 2024)

Figure 18: Camp Lake and SC-1 – Sulphate (2021 & 2024)

Figure 19: Camp Lake and SC-1 – Total Iron (2017 – 2024)

Figure 20: Camp Lake and SC-1 – Total Aluminum (2017 – 2024)

Figure 21: Camp Lake and SC-1 – Total Cadmium (2017 – 2024)

Figure 22: Camp Lake and SC-1 – Total Copper (2017 – 2024)

Figure 23: Camp Lake and SC-1 – Total Zinc (2017 – 2024)

Figure 24: Cold Lake Mixing Zone vs. Camp Lake Discharge – Field pH (2017 – 2024)

Figure 25: Cold Lake – Field pH (2017 – 2024)

Figure 26: Cold Lake Mixing Zone vs. Camp Lake Discharge – Total Alkalinity (2017 – 2024)

Figure 27: Cold Lake – Total Alkalinity (2017 – 2024)

Figure 28: Cold Lake Mixing Zone vs. Camp Lake Discharge – Total Suspended Solids (2017 – 2024)

Figure 29: Cold Lake – Total Suspended Solids (2017 – 2024)

Figure 30: Cold Lake Mixing Zone vs. Camp Lake Discharge – Lab Turbidity (2017 – 2024)

Figure 31: Cold Lake – Lab Turbidity (2017 – 2024)

Figure 32: Cold Lake Mixing Zone vs. Camp Lake Discharge – Sulphate (2021 & 2024)

Figure 33: Cold Lake – Sulphate (2021 & 2024)

Figure 34: Cold Lake Mixing Zone vs. Camp Lake Discharge – Total Iron (2017 – 2024)

Figure 35: Cold Lake – Total Iron (2017 – 2024)

Figure 36: Cold Lake Mixing Zone vs. Camp Lake Discharge – Total Aluminum (2017 – 2024)

Figure 37: Cold Lake – Total Aluminum (2017 – 2024)

Figure 38: Cold Lake Mixing Zone vs. Camp Lake Discharge – Total Cadmium (2017 – 2024)

Figure 39: Cold Lake – Total Cadmium (2017 – 2024)

Figure 40: Cold Lake Mixing Zone vs. Camp Lake Discharge – Total Copper (2017 – 2024)

Figure 41: Cold Lake – Total Copper (2017 – 2024)

Figure 42: Cold Lake Mixing Zone vs. Camp Lake Discharge – Total Zinc (2017 – 2024)

Figure 43: Cold Lake – Total Zinc (2017 – 2024)

List of Appendices

Appendix A: Sherridon Adaptive Management Plan

Appendix B: Groundwater Well Logs

Appendix C.1: Laboratory Certificates of Analysis – Biweekly Surface Water Quality

Appendix C.2: Laboratory Certificates of Analysis – Toxicity

Appendix D: Laboratory Certificates of Analysis – Groundwater

STATEMENT OF LIMITATIONS AND CONDITIONS

Limitations

This report has been prepared for Manitoba Environment and Climate Change in accordance with the agreement between KGS Group and Manitoba Environment and Climate Change (the "Agreement"). This report represents KGS Group's professional judgment and exercising due care consistent with the preparation of similar reports. The information, data, recommendations and conclusions in this report are subject to the constraints and limitations in the Agreement and the qualifications in this report. This report must be read as a whole, and sections or parts should not be read out of context.

This report is based on information made available to KGS Group by Manitoba Environment and Climate Change. Unless stated otherwise, KGS Group has not verified the accuracy, completeness or validity of such information, makes no representation regarding its accuracy and hereby disclaims any liability in connection therewith. KGS Group shall not be responsible for conditions/issues it was not authorized or able to investigate or which were beyond the scope of its work. The information and conclusions provided in this report apply only as they existed at the time of KGS Group's work.

Third Party Use of Report

Any use a third party makes of this report or any reliance on or decisions made based on it, are the responsibility of such third parties. KGS Group accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions undertaken based on this report.

Geo-Environmental Statement of Limitations

KGS Group prepared the geo-environmental conclusions and recommendations for this report in a professional manner using the degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. The information contained in this report is based on the information that was made available to KGS Group during the investigation and upon the services described, which were performed within the time and budgetary requirements of Manitoba Environment and Climate Change. As this report is based on the available information, some of its conclusions could be different if the information upon which it is based is determined to be false, inaccurate or contradicted by additional information. KGS Group makes no representation concerning the legal significance of its findings or the value of the property investigated.

Workload of the bidders at the time of tendering and overall market conditions. KGS Group does not assume any responsibility to Manitoba Environment and Climate Change, in contract, tort or otherwise in connection with such estimates and shall not be liable to Manitoba Environment and Climate Change if such estimates prove to be inaccurate or incorrect.

1.0 INTRODUCTION

Kontzamanis Graumann Smith MacMillan Inc. (KGS Group) was contracted by the Orphaned and Abandoned Mines (OAM) Program of Manitoba Environment and Climate Change for engineering services for the management of the Sherridon Mine Site under the OAM Subprogram (Stage 2 RFP #6629-2021-22). This report details the environmental monitoring conducted during the 2024 calendar year at the Sherridon Mine Site (the site).

The Sherridon Mine Site is located on the east shore of Camp Lake, approximately 65 km northeast of Flin Flon, Manitoba (Figure 1). The copper-zinc mine was operated by Sherritt Gordon Mines between 1928 and 1952. The communities of Cold Lake and Sherridon developed in the early 20th century in conjunction with development and operation of the Sherridon Mine. The mine site is since abandoned and is now the responsibility of the Province of Manitoba.

The Sherridon Mine Site underwent a site-wide reclamation that consisted of the relocation of 47 hectares of land-based tailings into Camp Lake commencing in 2009. The final reclamation activities were completed in August 2021. The project is now in post-reclamation phase. The 2024 environmental monitoring year is the third year of water sampling in the post-reclamation phase and builds on the water quality monitoring completed at the site since 2017.

1.1 Scope of Work

The scope of services to satisfy the conditions outlined in KGS Group Technical Proposal No. 20-000-1991 (dated February 12, 2021) and through subsequent Change Orders for the Sherridon Mine Site, are listed as follows:

- Environmental Monitoring (starting in 2022 at spring melt):
  - Water quality monitoring on a biweekly basis during open water season at four separate areas identified in the Terms of Reference: Sherlett Creek (background water quality; one station), Camp Lake (8 stations), Camp Lake discharge and Mixing Zone within Cold Lake (4 stations), and Cold Lake (4 stations).
  - Comparison of water quality results to the Manitoba Water Quality Standards Objectives and Guidelines (MWQSOG).
  - Two groundwater monitoring and sampling programs (spring and fall) at 12 monitoring wells on site.
  - Water sampling at additional stations on Sherlett Creek completed at the time of the groundwater sampling events.
- Preparation of an annual water quality report to include all water sampling results for that year in tabulated format, a discussion of the results relative to historical data, recommendations for future monitoring, and GPS coordinates for each sampling location.

2.0 SITE INFORMATION

2.1 Site Location

The Sherridon Mine Site (the site), is located approximately 65 km northeast of Flin Flon, Manitoba, on the east shore of Camp Lake. The communities of Cold Lake and Sherridon were developed in conjunction with the development and operation of the mine and are still populated despite the closure of the mine in 1952. The communities are accessed by the all-weather road Highway 800, which is an approximately 80 km stretch north from Provincial Trunk Highway (PTH) 10.

The post-reclamation water monitoring program includes the sampling of three distinct water bodies:

- Camp Lake (tailings lake)
- Cold Lake (arm of larger Kississing Lake)
- Sherlett Creek

A site plan for the Sherridon Mine Site is included as Figure 1.

2.2 Background Information

2.2.1 PHASING OF RECLAMATION PROJECT

The Sherridon Reclamation Project was initiated in 2006 with the commissioning of a reclamation plan and associated design for the site by the Province of Manitoba. The overall project commenced with pre-planning investigations, followed by a design study and selection of a recommended approach for long-term site management. The reclamation plan was the product of a multi-step design and approval process, in which several potentially applicable reclamation approaches were evaluated and compared, leading to recommendation of sub-aqueous disposal as the preferred approach (AMP, 2022).

The overall reclamation project includes four phases, which are described as follows (AMP, 2022):

Pre-Construction Phase – A baseline environmental study was conducted to document environmental conditions in Kississing Lake in the 2008 open water season immediately before reclamation work commenced. The pre-construction study was designed to document conditions at that time, identifying ecologically appropriate reference areas in Kississing Lake that have not been affected by the historical discharge from Camp Lake and therefore enabling quantitative assessment of the effects to date and geographic extent of effects.

Construction Phase – The on-site reclamation activities commenced in 2009 and were completed in 2021. The reclamation activities consisted of relocating the majority of the 47 hectares of acid-generating mine waste to Camp Lake, the majority of which was completed between 2009 and 2012. Construction of a cofferdam at the inlet of Sherlett Creek to Camp Lake was required to divert the creek around the lake (through a constructed drainage channel) to enable the tailings disposal to occur. Batch lime treatments were used to manage water quality in Camp Lake after the lake was refilled in 2013.

From 2012 to 2021, construction activities focused on eliminating the pockets of remnant mine waste that remained on-site and continued to contribute to the degradation of water quality within Camp Lake. Monitoring was instrumental during this phase to identify issues associated with the remaining adjacent mine waste and to target further reclamation work. Measuring water quality within Camp Lake was also important in determining the suitability of discharging the treated water from Camp Lake into Cold Lake. Controlled discharges from Camp Lake first began in 2016 and continued until the last batch application of lime in late winter 2018. Flow from Sherlett Creek was reestablished in August 2018, which eliminated the need for batch lime treatments.

Post-Construction Phase – The post construction phase is estimated to span from 2022 to 2026 on the basis of water quality modelling completed for the Sherridon Mine Site by SENES (2008). The water quality model estimated that water quality in Camp Lake will approach that of the inflowing Sherlett Creek over a 3-4 year period after the completion of site reclamation activities (SENES, 2008). The inputs to the model incorporated several factors, including precipitation (hydraulic flows) and background water quality. **Therefore, the timeline for the post-construction phase may be subject to change based on seasonal variations and/or unforeseen alterations.** The 2024 water quality monitoring year was the third year that the site was in post-construction.

Final Closure – Final closure of the site will be completed following demonstration of stable operation of the remediated site.

2.2.2 SUMMARY OF RECLAMATION WORKS

An up-to-date chronology of reclamation work at Sherridon Mine Site as detailed by DJRC (2022) is provided below:

2009 – 2012 – The bulk of the 7 million tonnes of acid-generating mine waste in the Sherridon tailings pile was relocated to the adjacent Camp Lake over the years from 2009 to 2012. The lake was refilled with water from Kississing Lake in 2013. Since remaining mine waste continued to contribute to water quality degradation in Camp Lake, water treatment was used to manage water quality in the lake until Sherlett Creek flow was returned to the lake. Sludge generated by the Water treatment plant (WTP) which had been deposited in the North basin earlier in the reclamation project was a further contributor to water quality degradation.

2016 – The summer 2016 construction program removed the WTP sludge from the North basin to Trap Lake (located east of Camp Lake), and mill site and causeway waste materials were placed in Camp Lake.

2017 – No reclamation work was completed in 2017.

2018 – Work completed in 2018 included:

- Removal of mine waste adjacent to the access road in a former ore load-out area;
- Construction of a dam to isolate a Glory Hole adjacent to the South basin, where there was the potential for exchange of acid rock drainage (ARD) influenced groundwater with the South basin;
- Earthworks reinforcement and overflow spillway construction at the outlet of Fox Lake, which periodically flows south into the East basin of Camp Lake and contains submerged tailings material;
- Identification and removal of mine waste on the discharge pathway between Fox Lake and Camp Lake;

- Identification and partial removal of remnant mine waste along the north shore of the East basin of Camp Lake;
- Removal of tailings berm (constructed of mine waste) across the inlet to Camp Lake from Sherlett Creek;
- Notching of the cofferdam at the inlet of Camp Lake to restore flows of Sherlett Creek into and though Camp Lake beginning August 12, 2018; and,
  - Installation of flow limitation plates on the inlets of the diversion channel culverts to split Sherlett Creek flow between Camp Lake (normally 85% of flow) and Portage Lake/lower Sherlett Creek (normally 15% of flow).
  - Note: The splitting of flows was a change from the originally proposed project design, which involved routing the entire flow of Sherlett Creek through Camp Lake. The change was initiated as it was documented that fish species had started to use the constructed diversion channel, which prompted the local community to request that flow be maintained through the diversion upon completion of the project.

A total of approximately 15,000 m^3 of mine waste was removed in 2018.

2019 – No reclamation work was completed in 2019.

2020 – Work in 2020 focused on removal of remnant waste along the north shore of the East basin of Camp Lake and around the peninsula separating the East basin from the North basin of Camp Lake (runoff to the East basin primarily, but also to the North and Central basins). A total of approximately 35,000 m^3 of mine waste was removed in 2020.

2021 – Work in 2021 focused on completing removal of remnant mine waste adjacent to the East basin and removal of the access road. All planned construction work was completed in mid-September 2021. A total of approximately 4,000 m^3 of remaining mine waste was removed in 2021.

2022 – The 2022 monitoring year was the first year of post-reclamation monitoring.

2.2.3 WATER QUALITY PROGRAM

The environmental management requirements for managing water quality in Camp Lake have evolved considerably since their inception in 2013. At that time, discharges from Camp Lake into Cold Lake were not occurring and pH was the primary indicator of project performance. In preparation for a planned controlled discharge of treated water from Camp Lake, the sampling and analytical program was expanded in 2015 to include a wider range of water quality parameters (metals, total suspended solids, alkalinity, and toxicity). Sampling was conducted both within Camp Lake and Cold Lake.

The first controlled discharge was conducted in 2016, which triggered an expansion of the water quality program to include evaluation of data against guidelines selected for reference comparison; the Metal Mining Effluent Regulations (now the Metal and Diamond Mining Effluent Regulations (MDMER)) were selected to manage all discharged water quality. Monitoring included frequent sampling during active discharge and less frequent sampling during a period of post-discharge monitoring within Cold Lake. In 2017, further discharge quality parameters were added to the program based on the results of the 2016 discharge sampling (turbidity and iron) and addition of the MWQSOG for reference comparison (aluminum and cadmium). The sampling program included stations within Camp Lake and Cold Lake and began shortly following ice-out and continued throughout the open water season. In 2017, the mixing zone in Cold Lake

was established immediately downstream of the discharge. Sampling frequency during discharge periods was increased within this zone.

Once flow from Sherlett Creek was re-established in August 2018, sampling in Camp Lake, the Camp Lake discharge, and the mixing zone was completed during the open water season on a weekly basis due to the construction activities and potential for variations in the water quality. Presently, the water quality program at Sherridon Mine occurs biweekly at seven stations within Cold Lake, nine stations within Camp Lake (including the discharge) and one station within Sherlett Creek. As the water quality improves within Camp Lake, water sampling frequency, parameter analysis, and sample locations will decrease in accordance with the AMP.

3.0 2024 ENVIRONMENTAL MONITORING PROGRAM

3.1 Biweekly Water Monitoring Program

The 2024 post-construction water monitoring program included a total of 11 water sampling events completed biweekly from May 28 to October 17, 2024. A winter sampling event was completed on February 21, 2024. Sample location, frequency, depth, and analytical parameters are detailed in Table 1.

TABLE 1: BIWEEKLY SURFACE WATER QUALITY MONITORING PROGRAM

Sample ID	Frequency	Depth	Analytical Parameters
Sherlett Creek (SC-1)	Biweekly from May 28 to October 17, 2024. Once in winter (February 21, 2024).	Surface	pH, alkalinity, total suspended solids (TSS), turbidity, sulphate, total organic carbon (TOC), dissolved organic carbon (DOC), total metals, & dissolved metals.
Sherlett Creek – Additional Stations (SC-2 to SC-6)	Sampled during the two groundwater monitoring events: June 12 & October 3, 2024.	Surface	pH, alkalinity, TSS, turbidity, sulphate, TOC, DOC, total metals, & dissolved metals.
Camp Lake (SB-1, SB-2, CB-1, CB-2, NB-1, NB-2, EB-1, and EB-2)	Biweekly from May 28 to October 17, 2024. Once in winter (February 21, 2024).	0.3 m below surface	pH, alkalinity, TSS, turbidity, sulphate, TOC, DOC, total metals, & dissolved metals.
Camp Lake Discharge [(1)]	Biweekly from May 28 to October 17, 2024. Once in winter (February 21, 2024).	Surface	pH, alkalinity, TSS, turbidity, sulphate, TOC, DOC, total metals, & dissolved metals. Toxicity – sampled every 8 weeks from May 16 to October 17, 2023.
Cold Lake Mixing Zone (CL-3, CL-7, and CL-8)	Biweekly from May 28 to October 17, 2024. Once in winter (February 21, 2024).	0.5 m above lake bottom	pH, alkalinity, TSS, turbidity, sulphate, TOC, DOC, total metals, & dissolved metals.
Cold Lake (CL-2, CL-4, CL-5, and CL-6)	Biweekly from May 28 to October 17, 2024. Once in winter (February 21, 2024).	0.5 m above lake bottom	pH, alkalinity, TSS, turbidity, sulphate, TOC, DOC, total metals, & dissolved metals.

Notes:

1. Camp Lake discharge samples were collected from the discharge flow over the weir for the duration of the 2024 sampling season.

Field chemistry parameters including pH, temperature, electrical conductivity (EC), dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity were measured at each sample location.

Water samples collected for laboratory analysis were placed in laboratory supplied containers or sterile carboys and stored immediately on ice in cooler chests for transport to Bureau Veritas (BV) Laboratory in Winnipeg, Manitoba, a Standards Council of Canada (SCC) accredited laboratory. All samples were collected using a fresh pair of disposable nitrile gloves and disinfecting methods were used on sampling equipment between sampling locations to avoid cross contamination between samples.

The water quality results for the Camp Lake stations (including Camp Lake discharge) are compared to the Camp Lake Water Quality Performance Objectives (CLWQPO) developed within the Adaptive Management Plan (Tetra Tech; final dated August 16, 2022). The objectives are target levels for water quality parameters in Camp Lake that have been estimated to be achieved within four years following completion of construction (AMP, 2022). The CLWQPO criteria were developed using the background “plus” approach for many parameters to accommodate the considerable variation in parameter concentrations that occurs in Sherlett Creek. The AMP is included in Appendix A.

The water quality results for Camp Lake as well as Cold Lake and Sherlett Creek are also compared to Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG) Tier II objectives and Tier III guidelines for the Protection of Aquatic Life (updated July 2011).

3.2 Groundwater Sampling

Groundwater monitoring and sampling during the 2024 open water season included two events completed on June 12, 2024, and October 3, 2024. The groundwater sampling program included 12 monitoring wells located mainly along the north and south shores of Sherlett Creek (Figure 2). The monitoring wells were installed between January 26 and February 5, 2022 (Tetra Tech; April 27, 2022 Memo). There are five wells completed in the overburden (suffix “OB”) and seven wells completed in bedrock (suffix “BR”).

The overburden wells were installed in a wetland area south of the creek and one near the shoreline north of the creek. The distribution of these wells was to evaluate soil conditions on both sides of the creek and the potential interaction of surface water and shallow groundwater in the wetland area and a portion of Sherlett Creek previously noted to have elevated metals concentrations (discussed in Section 4.2.2). The bedrock wells were installed north and south of the creek, as well as in the historic East Mine Working Areas extending to the southeast of Sherlett Creek (Figure 2). The distribution of these monitoring wells was to assess the area of changes in groundwater quality within and away from the historic mine workings, and potential interactions with the surface water systems in the wetland and Sherlett Creek.

At the time of the June and October 2024 groundwater monitoring events, all protective steel well casings were assessed and determined to be in good condition and PVC well stick-ups had sealed protective caps, with the exception of monitoring wells MW-09-OB, MW-10-OB, and MW-11-OB. These three wells consisted only of PVC stick-ups with sealed caps and did not have steel protective casings. Groundwater well conditions were consistent with conditions observed in 2023. Well logs for the monitoring wells are provided in Appendix B.

Sample ID, frequency, well depth, and analytical parameters are detailed in Table 2.

TABLE 2: GROUNDWATER MONITORING PROGRAM

Sample ID	Coordinates (m) [1]	Frequency	Well Depth (mbgs) [2]	Analytical Parameters
MW-01-BR	N 6110539 E 366854	Spring & Fall	10.69	General water chemistry, total dissolved solids, total metals, & dissolved metals.
MW-02-BR	N 6110440 E 366971	Spring & Fall	9.47	General water chemistry, total dissolved solids, total metals, & dissolved metals.
MW-03-OB	N 6110369 E 366990	Spring & Fall	8.66	General water chemistry, total dissolved solids, total metals, & dissolved metals.
MW-04-BR	N 6110398 E 366866	Spring & Fall	13.31	General water chemistry, total dissolved solids, total metals, & dissolved metals.
MW-04-OB	N 6110396 E 366867	Spring & Fall	7.92	General water chemistry, total dissolved solids, total metals, & dissolved metals.
MW-05-BR	N 6110368 E 366711	Spring & Fall	15.24	General water chemistry, total dissolved solids, total metals, & dissolved metals.
MW-06-BR	N 6110246 E 366922	Spring & Fall	6.60	General water chemistry, total dissolved solids, total metals, & dissolved metals.
MW-07-BR	N 6110027 E 367243	Spring & Fall	9.40	General water chemistry, total dissolved solids, total metals, & dissolved metals.
MW-08-BR	N 6109904 E 367205	Spring & Fall	15.09	General water chemistry, total dissolved solids, total metals, & dissolved metals.
MW-09-OB	N 6110304 E 366912	Spring & Fall	5.50	General water chemistry, total dissolved solids, total metals, & dissolved metals.
MW-10-OB	N 6110273 E 366915	Spring & Fall	5.18	General water chemistry, total dissolved solids, total metals, & dissolved metals.
MW-11-OB	N 6110306 E 366893	Spring & Fall	6.80	General water chemistry, total dissolved solids, total metals, & dissolved metals.

Note:
1. All coordinates within UTM Zone 14V
2. Well depth is in meters below ground surface (mbgs).

Water level measurements and field chemistry parameters including pH, temperature, EC, DO, ORP, and turbidity were measured at each of the 12 monitoring wells.

Each groundwater well was purged a minimum of three well volumes or until dry using dedicated disposable bailers or waterra tubing. Water levels were allowed to recover to at least 80% of their original levels before groundwater samples were collected. Field equipment was cleaned with isopropyl alcohol and distilled water between samples and new latex or nitrile gloves were used at each well to reduce the potential for cross

contamination so that representative samples could be obtained. Field instruments were tested and calibrated at the beginning of each day.

QA/QC assessment for the groundwater program included two field duplicates, taken from MW-05-BR (June 12, 2024) and MW-07-BR (October 3, 2024), two field blanks, and two trip blanks.

Water samples collected for laboratory analysis were placed in laboratory supplied containers and stored immediately on ice in cooler chests for transport to BV Laboratory in Winnipeg, Manitoba, an SCC accredited laboratory.

The results of the groundwater analysis are compared to the MWQSOG, updated July 2011. Since the wetland water and the water observed in the bedrock openings is assumed to flow towards Sherlett Creek, these guidelines are considered to be an appropriate reference for comparison. Similarly, the shallow groundwater in the overburden and the bedrock is assumed to flow towards Sherlett Creek, thereby interacting with local surface water systems.

Results of the June and October 2024 groundwater sampling events are discussed in Section 4.6.

3.2.1 GROUNDWATER ELEVATIONS

Ground elevations and top of well casing elevations were surveyed during the February 1, 2022, sampling event to determine groundwater flow direction (Tetra Tech; April 27, 2022 Memo). Groundwater elevations in the overburden wells suggested a northerly flow direction in the wetland area, towards Sherlett Creek. The groundwater elevations observed in the bedrock wells suggested that groundwater flow on the north side of the creek was to the south, towards the creek, while flow on the south side was northerly and easterly, all flowing inwards towards the creek.

Groundwater elevations observed in June and October 2024 follow the same flow directions, with all pathways flowing inward towards Sherlett Creek. In June, groundwater elevations in the bedrock wells ranged from 316.150 m (MW-04-BR) to 326.877 m (MW-08-BR) and from 315.449 m (MW-02-BR) to 322.660 m (MW-08-BR) in October. Groundwater elevations in the overburden wells ranged from 316.152 m (MW-03-OB) to 316.912 m (MW-10-OB) in June and from 315.076 m (MW-04-OB) to 316.628 m (MW-10-OB) in October (see Table 9).

4.0 RESULTS AND DISCUSSION

The 2024 water quality monitoring program was the third year of monitoring following the completion of construction activities at the Site in August 2021. The monitoring program represents the sixth full year of Sherlett Creek flow through Camp Lake in the absence of lime treatment.

The water sampling results for Camp Lake and the Camp Lake discharge are compared against the Camp Lake Water Quality Performance Objectives (CLWQPO), outlined in the Final AMP for the Sherridon Mine Site (dated August 16, 2022) and to the Manitoba Water Quality Standards Objectives and Guidelines (MWQSOG) Tier II objectives and Tier III guidelines, updated July 2011. Water sampling results collected for Sherlett Creek and Cold Lake are compared against the MWQSOG Tier II objectives and Tier III guidelines.

The focus of the following sections is on the key water quality parameters of pH, alkalinity, total suspended solids (TSS), turbidity, sulphate, and total fractions of the metals, iron, aluminum, cadmium, copper, and zinc. The results of toxicity testing of the Camp Lake discharge are also provided. The 2024 results for field chemistry are provided in Table 3, general water quality results are provided in Table 4, dissolved metals in Table 5, total metals in Table 6, and toxicity results in Table 7. The laboratory Certificates of Analysis (CoA) are included in Appendix C.1 for water quality and in Appendix C.2 for toxicity.

4.1 Precipitation and Observations of Flow

Analyzing annual precipitation patterns has become an important factor in interpreting water quality in Camp Lake and the Camp Lake discharge since environmental monitoring began in 2017. There has been an observable correlation in concentrations of the key water quality parameters in Camp Lake to the amount of flow through Sherlett Creek. Monthly precipitation for the years 2013 to 2024 are summarized in Table 8.

TABLE 8: ESTIMATED MONTHLY PRECIPITATION FOR SHERRIDON, MANITOBA

Month/ Year	2012/ 2013	2013/ 2014	2014/ 2015	2015/ 2016	2016/ 2017	2017/ 2018	2018/ 2019	2019/ 2020	2020/ 2021	2021/ 2022	2022/ 2023	2023/ 2024
October	159.7	29.8	59.9	66.3	228.5	82.8	52.8	51.5	65.2	14.8	8.1	17.9
November	41.3	89.9	31.3	61.1	36.8	56.0	32.6	31.7	44.4	33.4	38.6	18.5
December	25.6	28.3	9.8	39.3	26.2	20.3	27.5	33.0	26.6	34.3	18.0	0.1
January	49.3	53.1	34.2	23.5	25.0	71.0	40.1	52.0	63.2	24.5	13.5	5.6
February	19.7	12.1	23.1	33.4	20.1	14.8	19.1	19.5	29.5	14.1	22.4	5.9
March	23.5	37.5	63.7	74.2	126.0	58.3	19.2	54.9	65.6	28.2	9.9	18.5
April	69.9	67.1	62.2	42.7	97.2	33.6	54.7	98.3	29.9	3.4	22.1	41.1
May	42.1	69.2	51.8	73.1	122.8	45.5	61.2	79.7	77.6	84.1	12.8	61.8
June	150.0	152.8	74.8	179.1	202.3	145.1	127.9	251.4	101.7	32.1	56.0	122.0

Month/ Year	2012/ 2013	2013/ 2014	2014/ 2015	2015/ 2016	2016/ 2017	2017/ 2018	2018/ 2019	2019/ 2020	2020/ 2021	2021/ 2022	2022/ 2023	2023/ 2024
July	86.2	74.2	172.9	125.7	29.7	265.7	109.3	208.0	40.4	47.1	96.8	19.1
August	24.4	22.9	87.7	49.7	23.7	43.2	64.1	64.2	17.1	72.3	30.3	22.8
September	37.6	54.8	122.6	127.7	108.8	78.6	69.9	65.0	12.9	33.3	15.0	23.6
Total	**729.3**	**691.6**	**793.9**	**895.9**	**1047**	**914.9**	**678.4**	**1009**	**574.1**	**421.6**	**343.5**	**356.9**

Notes:

a. Units in millimetres (mm).
b. A water year in the northern hemisphere starts on October 1 and runs to September 30 of the following year (i.e., the 2022 water year started on October 1, 2021; American Meteorological Society, 2012). A water year is defined as the period of precipitation contributing to surface runoff each year, accounting for accumulation of snowfall over winter and release to runoff in spring.
c. Data sourced from nearest weather station in Flin Flon, Manitoba (Environmental Canada, 2024).

Data and observations of precipitation for 2024 are summarized as follows:

- The 2023/2024 precipitation generating year was the second lowest precipitation year of the last 10 years and the fourth consecutive year of lower-than-average precipitation in the region. The 10-year average for precipitation for the region is 698 mm; total annual precipitation from October 2023 to September 2024 was 357 mm and total annual precipitation for the previous year was 344 mm (Environmental Canada, 2024).
- The winter of 2023/2024 generated below average snowfall compared to previous years. From October 2023 to March 2024, total precipitation measured 66.5 mm, whereas winter 2022/2023 generated a total of 110.5 mm of precipitation and winter 2021/2022 generated a total of 149.3 mm of precipitation.
- June 2024 recorded 122.0 mm of rainfall which is greater than the previous three years.
- Heavy rainfall events were recorded on June 4 (40 mm), June 11 (14.9 mm), and June 24 (32.3 mm).
  - June 11, 2024, was a biweekly sampling event.

Due to overall low precipitation in 2024, the flow through Sherlett Creek was considerably reduced in May and from late August to the end of open water monitoring in mid-late October. Further discussion of Sherlett Creek flows is provided in the below section.

4.1.1 CAMP LAKE WATER LEVEL

Water levels on Camp Lake are a function of the available inflow from Sherlett Creek and precipitation and direct runoff inputs to the lake. Flows on Sherlett Creek are largely influenced by precipitation and runoff conditions.

In 2023, the available inflows into Camp Lake from Sherlett Creek were affected by the addition of stoplogs at the Camp Lake discharge weir and beaver activity at the notched cofferdam at the south end of Camp Lake which further reduced flows. The addition of stoplogs raised the elevation of the north weir above the elevation of the notched cofferdam inlet, thereby all of the available inflow from Sherlett Creek was being redirected through the diversion rather than flowing through Camp Lake. The change in elevation also resulted in a backflow event on October 2, 2023, in which Camp Lake flow reversed and began flowing

through the diversion into lower Sherlett Creek. This event caused a subsequent investigation into the intended hydraulic design of the reclamation project and the intended operation of the north weir.

On March 18, 2024, Tetra Tech provided a memo detailing the Sherridon reclamation project design hydraulics and a description of how the system is designed to function, with recommendations of how the project should be operated moving forward. A water management strategy was developed following the completion of the tailings relocation and treatment in conjunction with the hydraulic design of the system which targeted the lake elevation on Camp Lake to be approximately 316.0 m (1.5 m of coverage over the tailings). To achieve the required coverage:

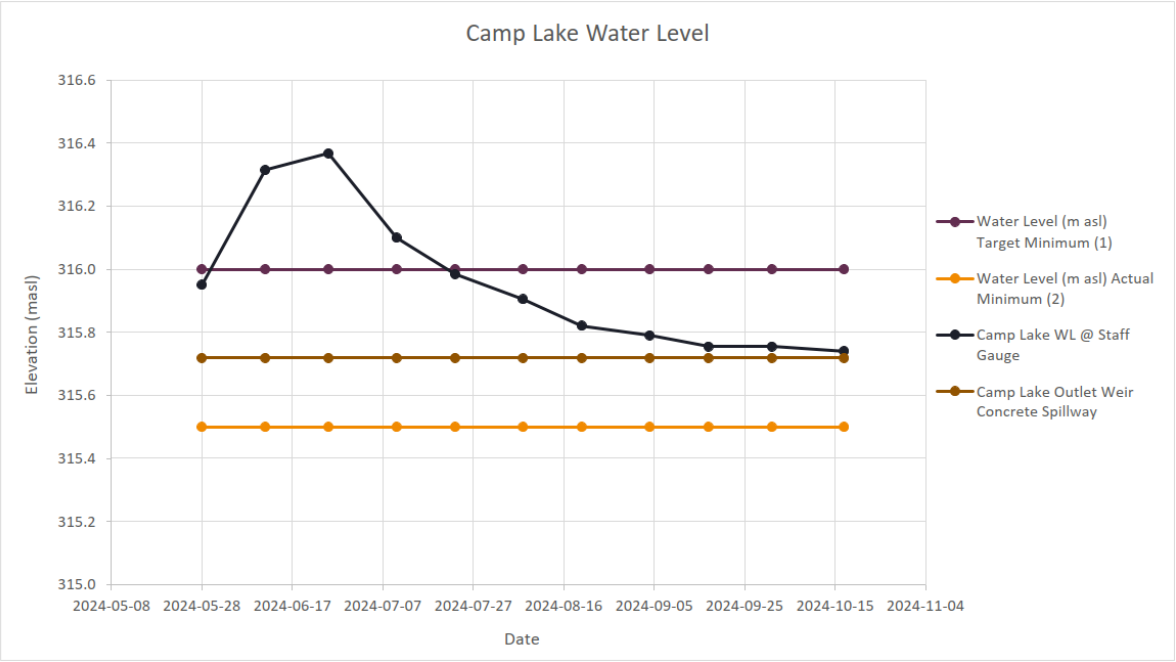
- No stoplogs would be placed in the Camp Lake north weir to permit flow to pass unrestricted.
- Steel weir plates would be installed on the upstream ends of the culverts at the head of the diversion channel to restrict flow from Sherlett Creek into the diversion.
- The cofferdam at the south end of Camp Lake would be notched to permit flow north from Sherlett Creek into the main body of Camp Lake.

As configured, the Sherlett Creek inflows are split approximately 85% through Camp Lake and discharged through the north weir and 15% through the diversion and lower Sherlett Creek to maintain normal lake level conditions and provide sufficient alkalinity loading to Camp Lake (Tetra Tech, 2024).

The memo recommended that, due to the unnecessary addition of stoplogs from July 2022 to July 2023, the post-reclamation phase be extended for two years.

Following the backflow event on October 2, 2023, all stoplogs were removed from the north weir and remained that way for the last sampling event on October 17, 2023. The 2024 sampling year was operated as intended with no stoplogs installed at the north weir. Camp Lake water levels were measured biweekly in accordance with the requirements of the AMP and are shown on Figure 3.

FIGURE 3: CAMP LAKE WATER LEVEL



1. Target minimum refers to the 1.5 m of water cover which provides a factor of safety over the subaqueous mine waste established in the AMP (2022).
2. Actual minimum refers to the 1.0 m of water cover which is the minimum depth of coverage required to maintain effective control of the subaqueous mine waste established in the AMP (2022).

Data and observations of water level on Camp Lake are as follows.

- Discharge over the Camp Lake outlet weir occurred throughout 2024.
- Inflow from Sherlett Creek, precipitation and runoff sources were able to maintain a water level at or above the target minimum until July 6, 2024. The water level remained above the actual minimum throughout 2024.
- Precipitation levels dropped significantly at the end of July resulting in lesser inflow from Sherlett Creek and runoff sources as reflected in the decrease in water level on Camp Lake.
- When water level elevations collected in 2024 were compared to elevations in 2020 (also operated with no stoplogs at the north weir), elevations were significantly lower. Water level elevations in 2020 ranged from 316.122 m to 316.488 m whereas elevations measured in 2024 ranged from 315.74 m to 316.368 m. The differential is mainly due to a greater amount of precipitation that was observed in 2020 compared to 2024. Additionally, water level elevations were collected from the north weir in 2020, whereas water level measurements in 2024 were taken from a staff gauge installed by the Camp Lake boat launch (i.e., south end of Camp Lake), which may affect the accuracy of the comparison.

Significant beaver activity was first noted at the notched cofferdam inlet by KGS Group field staff on September 4, 2024. The subsequent biweekly sampling events also noted beaver activity that became too substantial to manage. Local equipment operators periodically removed the mud and debris from the inlet, however not on a consistent basis. Based on photographs and videos from the sampling events on October 2 and October 17, no water was flowing into Camp Lake through the cofferdam due to the extensive beaver dam.

The significant beaver activity at the notched cofferdam inlet coupled with negligible levels of precipitation and a consistent discharge over the north weir, resulted in a very low water level on Camp Lake from early September to the end of October. Despite these conditions, the water level was still maintained above the actual minimum elevation (315.5 m) throughout the 2024 season. The dam was removed following the last sampling event on October 17, 2024. As the aqueous coverage decreases over the submerged tailings, the dilution potential for key metals also decreases which can have a negative effect on water quality. The AMP (Final AMP; August 16, 2022) states that “loss of water cover can expose the waste to air, which would result in oxidation of the sulphides in the exposed waste and the resulting generation of acid rock drainage.” The water cover management strategy detailed in the AMP entails pumping water from an adjacent water body to restore water cover over the mine waste. Water levels in 2024 did not drop enough to expose any of the submerged tailings, however if annual precipitation continues to decline, further discussion of water cover management should be conducted. The effects of climate change on precipitation and local watershed runoff in the future are also unknown and could expedite the need for amendments to the water cover management strategy.

4.2 Sherlett Creek

Key modelling completed for Sherridon Mine Reclamation Project has predicted that water quality in Sherlett Creek will take on a leading role in determining water quality in Camp Lake during the post-construction

monitoring phase of the project., Water quality in Camp Lake has been estimated to approach that in Sherlett Creek over a period of 4 years (AMP, 2022) as the project moves from the construction phase to post-construction monitoring. This estimation was based on the remediation functioning as designed. As discussed in Section 4.1.1, it is estimated that the post-construction phase will require an additional two years for the project to achieve targets.

4.2.1 SC-1

4.2.1.1 pH and Total Alkalinity

Field pH at SC-1 ranged between 6.63 and 7.32 during the 2024 open water season and measured 7.17 on February 21, 2024 (Figure 4). The 2024 field pH values were consistent with field pH values measured historically, which have ranged from 6.5 to 8.0 since 2017.

There has previously been indication of declining pH values during late summer and early fall of 2017, 2020, 2021, and 2022. Similar to 2023 and 2024, these years have been characterized by low flows starting in or around late summer (DJRC, 2022 and KGS Group, 2024). From 2022 – 2024, a similar seasonal trend was observed, where a slight decrease in pH values was noted starting with the reduction in flows (for 2024 this was on August 20) after which, values steadily increased until the end of sampling. Despite the lower flows over the previous three years, all field pH values have remained within the MWQSOG Tier II guideline range (6.5 to 9.0) except for a sample collected on October 31, 2023 (field pH 5.29). The 2024 winter sampling event recorded a field pH of 7.17, representing a recovery in pH levels. A similar recovery in pH was noted over the winter following low flow years. This is due to the recovery of alkalinity concentrations within Sherlett Creek which has a direct correlation to the increase of pH levels.

Alkalinity concentrations followed an increasing trend throughout the 2024 open water season, as also observed in 2017, 2022, and 2023 (Figure 5). Concentrations measured highest during the winter sampling event (43 mg $CaCO_3$/L), then dropped to 28 mg $CaCO_3$/L at spring melt before steadily climbing for the remainder of open water monitoring. Concentrations measured 40 mg $CaCO_3$/L at the last sampling event on October 17, 2024. Total alkalinity concentrations measured at SC-1 in 2024 have been the highest recorded since sampling started in 2017. In 2017 and 2023, concentrations followed a similar increasing pattern to 2024 where concentrations peaked at 36.6 mg $CaCO_3$/L (Oct. 11, 2017) and 36 mg $CaCO_3$/L on July 11, 2023. Concentrations have typically shown an increase/recovery over winter. In 2022/2023, total alkalinity measured 26 mg $CaCO_3$/L on October 18, 2022, and measured 30 mg $CaCO_3$/L on February 14, 2023. A similar increase/recovery occurred over the 2023/2024 winter but to a greater extent. Total alkalinity measured 30 mg $CaCO_3$/L on October 31, 2023, and measured 43 mg $CaCO_3$/L on February 21, 2024.

4.2.1.2 TSS and Turbidity

TSS concentrations at SC-1 have typically been at or below 4 mg/L since 2017 (DJRC, 2022). Notably, the laboratory analytical detection limit for TSS was lowered from 4 mg/L to 1 mg/L beginning in June 2019 and has remained at 1 mg/L through to present.

In 2024, TSS concentrations ranged from <1.0 mg/L to 4.6 mg/L (Figure 6). The highest concentrations were measured in June, which is consistent with previous years, and may have been a result of higher flows at this time. TSS concentrations appeared to be unaffected by the period of lower flows in late August to fall of 2024. There has been no apparent relation between periods of low flow and TSS at SC-1 in any of the low

precipitation years including 2024. All measured TSS concentrations in 2024 were well below the MWQSOG Tier II chronic objective of 11.5 mg/L.

Historically, turbidity values have been below 4 NTU, except during the open water season low flow periods in 2017 and 2021. All field turbidity results in 2024 were below 2.7 NTU, except the winter event (4.9 NTU) and no seasonal increase during low flow was observed (Figure 7).

In 2024, field turbidity was fairly consistent with laboratory turbidity results, even slightly lower, except for the winter sampling event (lab 4.9 NTU vs. field 10.15 NTU).

4.2.1.3 Sulphate

In accordance with the requirements specified in the AMP, sulphate was added as a key water quality parameter for analysis as of 2023. Sulphate had not been analyzed in any other monitoring years except for 2021.

Sulphate is a product of the weathering of sulphide minerals and concentrations measured in the streams and lakes (i.e., background) are generally indicative of sulphide mineralization in the local watershed affecting water quality (DJRC, 2022). Therefore, concentrations observed in Sherlett Creek are likely naturally occurring and not influenced by former mining operations.

In 2024, sulphate concentrations measured 4.7 mg/L during the winter event and then increased to 7.8 mg/L in spring before steadily declining, reaching the seasonal low on August 20, 2024 (2.2 mg/L) (Figure 8). Low flows appeared to have an influence on sulphate concentrations as they started increasing from late August until the end of sampling (reaching 9.8 mg/L). This pattern is different than the one observed in 2021 and 2023. In both years, sulphate concentrations started low over winter and into spring and then steadily increased throughout the open water season.

4.2.1.4 Total Metals

The key total metals of iron, aluminum, cadmium, copper, and zinc are discussed in the following sections. Hardness provides protection against the toxicity of some metals. Starting in 2021, the total concentrations of cadmium, copper, and zinc were compared to MWQSOG Tier II aquatic life criteria using the annual average hardness calculated for Sherlett Creek (using SC-1 hardness; calculated 34.4 mg $CaCO_3$/L for 2024) instead of the 2016 average Cold Lake hardness (59.4 mg $CaCO_3$/L), which was used in previous years' reports. The change was initiated due to elevated concentrations of metals identified within Sherlett Creek in 2021 and past years, which necessitated the evaluation of metals using creek-specific hardness (DJRC, 2022). The use of Sherlett Creek SC-1 hardness is followed for 2024.

The average SC-1 hardness in 2024 was calculated to be 34.4 mg $CaCO_3$/L, which is similar to the hardness calculated in 2021 (31.0 mg $CaCO_3$/L), 2022 (30.8 mg $CaCO_3$/L), and 2023 (33.7 mg $CaCO_3$/L). The resulting total metals Tier II chronic and acute objectives are presented in Table 6.

Iron

Over the past eight years of monitoring (2017 – 2024), total iron concentrations at SC-1 have typically been below 0.4 mg/L (Figure 9).

High total iron concentrations have been observed during low flow periods. For example, in 2017 and 2021, total iron concentrations up to 1.0 mg/L were observed. In 2022, measured concentrations were up to 0.52 mg/L during the period of lower flows in August to October. A high concentration (0.61 mg/L) was also

measured on September 11, 2018, around the time of a heavy rainfall event (DJRC, 2022). In 2023, total iron concentrations up to 0.52 mg/L were observed in the low flow conditions between August and October.

In 2024, total iron concentrations were below the MWQSOG Tier III guideline of 0.30 mg/L except for three occasions in late August and September (ranged from 0.37 mg/L to 0.48 mg/L), which is similar to 2022. No increase in concentration was observed in June during the period of high precipitation. In comparison, 2023 had eight sampling events with concentrations above guideline and 2021 had 13 events above guideline.

Aluminum

Total aluminum concentrations have generally ranged between 0.03 mg/L and 0.10 mg/L over the last eight years of monitoring (Figure 10). In 2017 and 2021, during low flow periods in September and October, aluminum concentrations were high (up 0.27 mg/L). High concentrations were also noted on August 6, 2018 and September 11, 2018 (0.26 mg/L; DJRC, 2022). The high concentration measured on September 11, 2018 was attributed to a heavy rainfall event on the basis of similarly high concentrations recorded for iron, cadmium, copper, and zinc (DJRC, 2022).

All concentrations in 2024 were below the MWQSOG Tier III guideline (0.10 mg/L for pH ≥ 6.5 and 0.005 mg/L for pH < 6.5), with the exception of the total aluminum concentration on June 25 (0.12 mg/L) and August 20 (0.11 mg/L). Total aluminum concentrations between 2022 – 2024 have been consistent.

Cadmium

Outside of low flow conditions, total cadmium concentrations have generally ranged between 0.00010 mg/L and 0.00050 mg/L over the last eight years of monitoring (Figure 11). In 2024, higher concentrations (up to 0.00092 mg/L) were measured during the period of higher flows in June. It has been noted previously that occasionally higher concentrations measured in 2018 (on July 24 and September 11 and 13) and 2019 (July 31), were not traceable to low flow conditions but rather to heavy rainfall events (DJRC, 2022). The higher concentrations were reported to be driven by surface runoff likely from the area of the former East Mine Workings.

After concentrations peaked in June, total cadmium levels dropped and remained low (below 0.00036 mg/L) until they increased again on October 2, 2024. Therefore, it appears that concentrations were not affected by low flow conditions to the extent that they have been in previous years. During the 2023 low flow period, concentrations were observed up to 0.00089 mg/L, in 2022 concentrations were observed up to 0.00067 mg/L and during the 2021 low flow period, concentrations were observed up to 0.00075 mg/L.

Total cadmium concentrations in 2024 were generally above the MWQSOG Tier II chronic objective of 0.00012 mg/L and below the acute objective of 0.00071 mg/L, which is consistent with results since 2017.

Copper

Total copper concentrations have generally ranged between 0.0030 mg/L and 0.020 mg/L over the last eight years of monitoring, with the lowest concentrations typically occurring under winter ice cover (Figure 12). Total copper concentrations have been generally above the MWQSOG Tier II chronic and acute objectives since 2017. Higher concentrations have been noted during low flow periods or heavy rainfall events as observed for the other metals.

In 2024, concentrations were highest during high flows in June, similar to cadmium, and reached a seasonal high of 0.044 mg/L on June 25, 2024. Again, similar to cadmium, total copper concentrations in 2024 did not

appear to be affected by lower flows between late August and end of September (ranged from 0.0058 mg/L to 0.021 mg/L). This was also observed in 2021. Concentrations on October 2, 2024, increased again to 0.033 mg/L but then dropped on the last sampling event of the year to 0.014 mg/L. Similar instances of increases in total copper concentrations during periods of high flows were observed on July 24, 2018, September 11-13, 2018, and July 31, 2019 (DJRC, 2022).

Zinc

Total zinc concentrations have generally ranged between 0.024 mg/L and 0.20 mg/L independent of any low flow or heavy rainfall condition (Figure 13). Concentrations followed a similar pattern to cadmium and copper in 2024 with the highest concentrations observed in June during high flows and low concentrations observed through the low flow period (except October 2, 2024). Total zinc concentrations in 2024 were generally above the MWQSOG Tier II chronic and acute objectives (0.0497 mg/L), which is consistent with historical ranges.

Summary

Overall, key parameter concentrations within Sherlett Creek have shown minor variations since monitoring began in 2017. In previous years, turbidity and metals have been found to increase with lower flows through the creek, however in 2024 a different pattern was observed where concentrations increased in June with higher flows/precipitation and were less affected during low flow periods (August – October). TSS, turbidity, and metal concentrations were low over winter 2023/2024 and into the 2024 open water season. Surface runoff influenced the creek during June with a high level of precipitation recorded. Thereafter, precipitation was negligible, and surface runoff did not affect concentrations within the creek. It should be noted that the variations observed in Sherlett Creek throughout the year are on a very small scale when compared to the variations observed in Camp Lake.

4.2.2 ADDITIONAL CREEK SAMPLING STATIONS (SC-2 TO SC-6)

Five additional sampling stations (SC-2 to SC-6) were previously established on Sherlett Creek for the purpose of providing water quality information for the reach of Sherlett Creek between Sherlett Lake and SC-1. The five additional sampling locations are all upstream of SC-1, with SC-6 located at the mouth of Sherlett Lake (Figure 1 and 2).

These stations were initially sampled in 2006 to support project planning and subsequently in 2009, 2017, and 2018 to investigate the potential source(s) of elevated metals concentrations in Sherlett Creek (DJRC, 2022). A more detailed sampling program was completed in 2021 and February 2022 due to receipt of a report from a Sherridon resident of overland flow from the vicinity of the East Mine Workings Area (DJRC, 2022). All available data for SC-1 has indicated that total concentrations of cadmium, copper, and zinc have generally been above one or both of the MWQSOG Tier II chronic and acute objectives consistently throughout open water season monitoring. The higher concentrations have occurred regardless of precipitation or local runoff conditions and have been most notable during periods of low flows, which suggests that there may be another metal source influencing the creek (DJRC, 2022).

The results of the detailed monitoring program conducted in 2021 concluded that the source of metal contamination to the creek appears to be a sub-surface source that enters the creek downstream of SC-4 (DJRC, 2022). The source has been identified as either an inflow of metal contaminated groundwater or direct

contact of the creek with the naturally occurring mineralized zone of the Sherridon deposit, which passes directly beneath the creek in this location.

In 2024, total cadmium, copper, and zinc concentrations at stations SC-3, SC-2, and SC-1 were higher than at stations SC-4, SC-5, and SC-6 on both open water sampling dates (June 11 and October 2). October generally had higher concentrations than June for total metals. Concentrations of total metals were consistent with 2021 and 2023 concentrations but higher than 2022. General water quality, sulphate, and total aluminum concentrations were consistent with SC-1 concentrations.

4.3 Camp Lake and Camp Lake Discharge

The Camp Lake Water Quality Performance Objectives (CLWQPO) were created as a means for evaluating the performance of the reclamation works in comparison to the expectations developed during project planning (AMP, 2022). They are not regulatory limits. The AMP (2022) states that once construction is completed (September 2021), water quality within Camp Lake is expected to gradually approach the objectives over an estimated three to four year period. However, as established in Section 2.2.1 and Section 4.1.1, an additional two years are recommended to be added to the post-construction phase as a result of the unnecessary stoplog addition at the north weir from 2022 – 2023.

An important factor to consider in understanding water quality in Camp Lake and its potential effect on water quality in Cold Lake is the magnitude of Sherlett Creek flow entering the lake. During the 2024 open water season, a period of high precipitation/flow was experienced in June but by the end of August flows in Sherlett Creek became greatly reduced until the end of open water sampling, reflecting low seasonal precipitation and the presence of beaver activity at the notched cofferdam restricting flows.

There were no stoplogs installed at the discharge weir for the duration of the 2024 open water sampling. A discharge over the weir was observed at every biweekly sampling event (May 28 – October 17).

4.3.1 PH, ALKALINITY AND SULPHATE

4.3.1.1 pH

Throughout the 2024 open water season, field pH within Camp Lake generally remained near neutral (pH = 7.0) (Figure 14). During the winter event on February 21, 2024, field pH measured between 6.54 and 6.91. Shortly following ice out at the end of May, field pH was measured between 4.87 and 6.90. The drastic drop in field pH can be attributed to low levels of precipitation, negligible spring runoff, and lack of spring flushing. The winter of 2023/2024 generated below average snowfall compared to previous years which eliminated the spring runoff flushing period that typically occurs every year, adding high levels of alkalinity to Camp Lake and restoring pH levels (alkalinity levels in May 2024 ranged from <1.0 mg $CaCO_3$/L to 8.3 mg $CaCO_3$/L compared to May 2023 levels ranged from 9.1 mg $CaCO_3$/L to 17 mg $CaCO_3$/L).

Precipitation levels increased significantly in June which corresponded to an increase in field pH values (all stations measured above the MWQSOG Tier III lower limit of 6.5). The field pH levels within Camp Lake remained steady throughout the remainder of the open water season, showing a very slight decline in October but remaining above the Tier III lower guideline limit. In previous low flow years (2017 and 2021 – 2023), a more noticeable drop in field pH was observed with the negligible flow through Sherlett Creek coupled with the presence of stoplogs at the discharge weir (2022 and 2023 only).

In 2024, the system operated with no stoplogs at the discharge weir which allowed the flow split at the diversion to remain as intended (approximately 85% through Camp Lake and 15% through the diversion). The continuous flow through Camp Lake resulted in a consistent supply of alkalinity and stable pH values. The slight decline in field pH values observed in October is likely attributed to low lake levels and significant beaver activity at the notched cofferdam (beginning in September), restricting flow into Camp Lake.

Generally, field pH levels in Camp Lake closely tracked the pH in the inflowing Sherlett Creek. Field pH values at Camp Lake discharge averaged 0.45 pH units lower than the SC-1 pH in May, June, and October but averaged 0.25 pH unit higher than the SC-1 pH in July, August, and September. Comparatively, Camp Lake discharge pH averaged 0.2 pH units lower than the SC-1 pH in 2023 and 0.25 pH units lower in 2022.

The maintenance of a neutral pH in Camp Lake, even during low flows, indicates that alkalinity was present in sufficient concentrations needed to neutralize remaining acid sources to the lake. Reduction in acid sources to the lake, as a result of mine waste removed from the shores of Camp Lake through the Sherridon Reclamation Project, coupled with a small amount of surface runoff in 2024, and operating the system as intended are all key factors in the maintenance of a neutral pH.

4.3.1.2 Alkalinity

In all previous sampling years, total alkalinity levels at SC-1 and all stations in Camp Lake were generally highest under winter ice cover; however, alkalinity measured during the 2023 winter sampling event measured the lowest concentrations observed since sampling began in 2017 (ranged from 1.0 mg $CaCO_3$/L to 8.1 mg $CaCO_3$/L). Total alkalinity measured during the 2024 winter sampling event did not reach high concentrations observed previously but did show some regeneration and ranged from 6.9 mg $CaCO_3$/L to 11 mg $CaCO_3$/L which is consistent with concentrations observed in winter 2022 (Figure 15). Although flow over the discharge weir was not present at the time of the February 2024 winter sampling event, it appears as though in-lake processes were enough to restore total alkalinity concentrations to some extent over the winter months. It has been suggested by DJRC (2022) that bacterial reduction of sulphate may be a predominant source of alkalinity regeneration over winter in the absence of material flows.

In 2021, alkalinity concentrations dropped drastically from winter to spring as a result of metal and acid-contaminated spring runoff, and then slowly regenerated with continued flow from Sherlett Creek, peaking in July. As flow through Sherlett Creek decreased, alkalinity concentrations also decreased. This pattern was observed in 2022 on a much smaller scale due to the lesser extent of concentration recovery over the winter as well as the construction activities and remnant mine waste removal ending in 2021. Similarly, in 2024 alkalinity concentrations did not recover to the same extent as 2021 under ice conditions, therefore a drastic drop during spring runoff was not observed. Concentrations decreased at all stations (minimally in the south basin) which is attributed to the overall negligible snow melt and the lack of flushing from Sherlett Creek. With a significant increase in precipitation through June, concentrations increased in all basins and continued to increase achieving seasonal highs on July 23, 2024. Concentrations ranged from 16 mg $CaCO_3$/L (EB-2) to 26 mg $CaCO_3$/L (SB-1), reaching near-background levels (SC-1 measured 28 mg $CaCO_3$/L on July 23, 2024). The seasonal high measured in 2024 is greater than any other seasonal high measured since 2017 (concentrations reached 23 mg $CaCO_3$/L in 2020 and 22 mg $CaCO_3$/L in 2021).

The high level of alkalinity that was maintained throughout 2024 is likely attributed to the system operating as intended with the majority of Sherlett Creek inflow coming through the notched cofferdam and consistently supplying high concentrations of alkalinity. As flows through the creek became reduced in

August, concentrations slowly declined until the end of sampling in October (final concentrations ranged from 10 mg $CaCO_3$/L to 12 mg $CaCO_3$/L). In comparison, final concentrations in October 2022 ranged from <1.0 mg $CaCO_3$/L to 3.8 mg $CaCO_3$/L and from 1.1 mg $CaCO_3$/L to 3.8 mg $CaCO_3$/L in October 2023.

The consistent supply of flows from Sherlett Creek (to varying degrees), resulted in a steady neutral pH within Camp Lake throughout the open water season (after May 28, 2024).

4.3.1.3 Sulphate

In accordance with the requirements specified in the AMP, sulphate was added as a key water quality parameter for analysis as of 2023. Sulphate had not been analyzed in any other monitoring years except for 2021. Sulphate concentrations at Camp Lake discharge closely followed concentrations in Camp Lake throughout the open water season (Figure 18). Concentrations at all stations measured high (up to 280 mg/L) during the winter sampling event which is consistent with 2023 but not 2021 (concentrations were as low as 1 mg/L). Concentrations were still measuring high during the first open water sampling event (May 28, 2024) but dropped drastically in June once precipitation levels increased and flow through Sherlett Creek increased. Concentrations continued to drop and reached seasonal lows in July, which ranged from 37 mg/L (SB-2) to 97 mg/L (EB-2), after which concentrations began increasing again and ranged from 100 mg/L to 130 mg/L during the final sampling event, reflecting the negligible flows through Sherlett Creek.

A similar pattern was observed in 2021 and 2023 during the open water season where sulphate concentrations were low during spring and summer and then steadily increased until the end of sampling. Concentrations in 2021 reached a similar seasonal low to 2024 (ranged between 29 mg/L to 91 mg/L) whereas the seasonal low observed in 2023 had concentrations that ranged from 82 mg/L to 150mg/L. The large discrepancy between concentrations in winter 2021/2022 and winter 2022/2023 and 2023/2024 is due to the presence/absence of Sherlett Creek inflow. Sherlett Creek flowed continually through winter 2021/2022 whereas there was no flow in Sherlett Creek from the end of August 2021 through to the March 2022 winter sampling data (DJRC, 2022). Similarly, no flow was observed from July 2022 through to the February 2023 winter sampling event and there was no flow observed at the February 2024 winter sampling event. The lack of flows prevented sulphate concentrations from decreasing and recovering under ice conditions.

According to DJRC (2022), sulphate concentrations in Camp Lake have decreased considerably as a result of the reclamation works. Prior to reclamation, in January 2008, the sulphate concentrations in Camps Bay (vicinity of CB-2), was 2,050 mg/L and the concentrations in Woods Lake (now part of East basin), was 7,520 mg/L (SENES, 2008). The high concentrations of sulphate are caused by the sulphide mine waste (i.e. tailings) generated through the Sherridon mining operations. During the construction phase of the Project, the majority of the sulphide-bearing mine waste was deposited into Camp Lake. Despite the elimination of run-off sources, the submerged tailings will continue to release sulphate concentrations. However, similar to metal concentrations, over time, concentrations are expected to decrease to within the proposed CLWQPO (sulphate: ambient SC-1+7+25%).

All Camp Lake sampling locations exceeded the CLWQPO guideline throughout the open water season but were below the MWQSOG criteria (500 mg/L), which is consistent with 2023 results.

4.3.2 TSS, TURBIDITY AND IRON

Since the start of the Sherridon Mine Reclamation Project, local residents have expressed considerable concern regarding the effect of discharges from Camp Lake on the appearance of water in the Cold Lake arm of Kississing Lake, with specific concerns regarding the potential for red staining of boats. Three of the key parameters measured – TSS, turbidity, and iron – are indicators of water appearance, with iron being a source of red staining.

Prior to August 2018, lime treatments were applied to Camp Lake to manage water quality during the reclamation phase of the project. The lime treatments created a floc that settled on the lake bottom during calm periods but would be resuspended during high wind events and create a red-colored turbidity in the lake (due to particulate iron associated with the floc). Lime has not been used since Sherlett Creek flow was reestablished through Camp Lake in August 2018; however, remnant mine waste remained a source of dissolved and particulate iron to Camp Lake. Since construction and targeted removal of mine waste was completed in 2021, the amount of dissolved and particulate iron, and potentially TSS and turbidity, introduced to Camp Lake from this source is expected to be greatly reduced (DJRC, 2022).

4.3.2.1 TSS

TSS concentrations in 2024 followed a U-shaped pattern, with higher concentrations observed during spring and in fall (Figure 16). TSS concentrations in spring 2024 were similar to 2022 and 2023 and were notably lower compared to previous years, remaining below 5 mg/L versus 10 mg/L in spring 2021. Lower spring concentrations are attributed to the absence of active construction occurring on-site and specifically around the East basin where the highest concentrations were observed in 2020 and 2021. TSS concentrations declined throughout the open water season, meeting background Sherlett Creek concentrations at all stations by the late June and reaching a seasonal low of <1.0 mg/L at all stations on July 23, 2024. By September, concentrations started to increase due to negligible inflow from Sherlett Creek, however, still remaining well below the CLWQPO and MWQSOG Tier II chronic objective of 11.5 mg/L. Both sampling events in October recorded higher concentrations than previous years which is likely due to the low water level on Camp Lake. Less water cover would cause the tailings to be more susceptible to wind events increasing the turbidity and TSS within the water column.

TSS concentrations at the Camp Lake discharge were equal to or below 3.0 mg/L throughout the open water season, except for the two sampling events in October. Overall, TSS levels at the discharge weir in 2024 were lower than 2022 and 2023, and below the CLWQPO and MWQSOG Tier II chronic objective.

4.3.2.2 Turbidity

Turbidity levels in 2024 at all Camp Lake basins including the discharge were low compared to levels measured in 2021 – 2023 (Figure 17). Values measured during the winter 2024 sampling event indicated that turbidity levels had recovered under ice cover and ranged from 7.3 NTU to 13 NTU, compared to March 2022 where values ranged from 16 NTU to 27 NTU and February 2023 values ranged from 21 NTU to 32 NTU. In 2022, the higher levels persisted into spring, whereas in 2023 turbidity levels dropped from winter to spring. In 2024, from winter to spring all lake basin concentrations dropped except for the south basin and central basin which increased (ranged from 21 NTU to 23 NTU). The variability in values is likely due to limited volumes of snow melt and surface runoff that was observed in spring 2024.

Following the May sampling event, turbidity levels at all sampling stations decreased through spring/summer, reaching seasonal lows on July 23, 2024, with levels ranging from 1.1 NTU to 2.3 NTU. Comparatively low

turbidity values have not been observed in Camp Lake since summer 2020. Turbidity levels reached seasonal lows in 2022 on July 12th and ranged from 4.6 NTU to 7.4 NTU and in 2023 the seasonal low was reached on June 27th and ranged from 6.0 NTU to 8.0 NTU. In August 2024, turbidity levels gradually increased until the end of sampling on October 17, 2024. End of season concentrations were very similar to 2023 and lower than 2021 and 2022. The increase in values in October was likely correlated with the increase in TSS concentrations and the low water levels that were observed on Camp Lake.

The CLWQPO for turbidity is ambient SC-1 + 25%; calculated CLWQPO values ranged between 1.4 NTU and 6.1 NTU. All turbidity values measured during the 2024 open water season were above the CLWQPO, except for both sampling events in July where concentrations dropped below guidelines in all basins including the discharge. Excluding spring and fall, turbidity values tracked SC-1 levels fairly closely.

Overall, the elevated turbidity in Camp Lake which has been characteristic of the previous years has diminished, although has not been eliminated. Turbidity levels are directly affected by the lack of inflow from Sherlett Creek and low water levels on Camp Lake especially when combined with high wind events.

4.3.2.3 Iron

Iron is the metal attributed to the discolored water on Camp Lake and staining of boats noted by local residents and is therefore a parameter of particular interest to the project. Staining was a regular occurrence through 2008, prior to the start of reclamation activities (DJRC, 2022). The staining stopped from 2009 through 2017 but then resumed following the resumption of discharges from Camp Lake (DJRC, 2022). No reports of staining were received by the project team during the 2024 monitoring year.

Total iron in Camp Lake, including the discharge, recovered to low concentrations over winter 2023/2024 which did not occur over the previous two winters (Figure 19). Concentrations measured on February 21, 2024, ranged from 0.56 mg/L to 1.2 mg/L compared to winter 2021/2022 concentrations which ranged from 4.5 mg/L to 6.5 mg/L and winter 2022/2023 concentrations which ranged from 2.2 mg/L to 3.4 mg/L. The greater extent of under ice recovery observed in winter 2024 is likely due to the removal of all stoplogs at the discharge weir at the end of 2023, and restoring flow through the notched cofferdam and over the weir. Over both 2021/2022 and 2022/2023 winters, stoplogs were present at the discharge weir which would have restricted any potential flow through Camp Lake.

An increase in concentration from winter to spring was observed in 2024, however to a much lesser extent compared to years prior to 2022. The minimal increase in concentrations from winter to spring reflects the overall low volume of spring runoff observed in 2024 as well as a substantial reduction in iron loading to the lake during spring runoff periods compared to years prior to 2022. Following the sampling event on May 28, 2024, concentrations declined through spring reaching seasonal lows at all sampling locations, including the discharge, on July 10, 2024. Concentrations ranged from 0.36 mg/L to 0.52 mg/L, hitting background concentrations for the first time since 2020. A fairly steep increase in concentrations was observed from early August until the end of sampling, reaching concentrations consistent with 2020. During the last sampling event in 2024, total iron concentrations ranged from 3.7 mg/L (EB-2) to 6.8 mg/L (SB-1). In October 2020, concentrations ranged from 3.5 mg/L (EB-2) to 7.2 mg/L (SB-2). The end of season increase is likely attributed to several factors, including negligible flow from Sherlett Creek which was accentuated by beaver activity at the notched cofferdam, coupled with a low water level on Camp Lake which reduced the capacity for dilution of heavy metals and would have made resuspension of particulate iron more likely. The artificially high water levels on Camp Lake created by the stoplogs in 2022 and 2023 would have maintained a high dilution

potential within the lake and therefore no steep increase in concentrations was observed in these years. The south and central basin generally measured the highest concentrations, and the east basin measured the lowest throughout 2024 which is consistent with previous years. Total iron concentrations in the Camp Lake discharge were consistently within the range observed in Camp Lake.

Total iron concentrations were above the CLWQPO (ambient SC-1 + 25%) during all sampling events and for all stations (including the Camp Lake discharge) in 2024. The concentrations in early July were approximately 1.1 to 1.6 times that of the CLWQPO, while the highest concentrations in fall were approximately 11.5 to 21 times that of the CLWQPO. All concentrations were above the MWQSOG Tier III guideline of 0.3 mg/L.

4.3.3 TOTAL METALS

4.3.3.1 Aluminum

Total aluminum concentrations in 2024 followed a U-shaped pattern and were the highest at the beginning of the open water season and at the end of sampling in October. These observations are consistent with the patterns observed during the 2020, 2021 and 2022 open water seasons which followed a U-shaped pattern with the highest concentrations occurring at the beginning and end of the open water seasons, and the lowest concentrations occurring in mid-summer (Figure 20). Total aluminum concentrations in 2023 followed a slightly different pattern where the end of season increase was not observed.

The highest concentrations at nearly all stations along Camp Lake occurred in June, with the influx of precipitation. Concentrations along the main axis of the lake (south, central, and north basins), ranged from 0.081 mg/L (SB-2) to 0.16 mg/L (NB-1) and within the east basin stations concentrations ranged from 0.19 mg/L to 0.33 mg/L, which were notably higher than the main axis. Concentrations at the Camp Lake discharge measured 0.15 mg/L in June. Total aluminum concentrations were below the MWQSOG Tier III guideline in early June within the south and central basins and above the guideline within the north and east basins as well as the discharge. The MWQSOG Tier III guideline for total aluminum is dependent on pH and is 0.1 mg/L for pH ≥ 6.5 and 0.005 mg/L for pH < 6.5. Concentrations in all four basins declined from late June until the end of September, dropping below the MWQSOG Tier III guideline and remaining below until October 2, 2024, when concentrations within all basins, including the discharge, increased above the guideline. The late season increase is attributed to negligible flow contributions from Sherlett Creek and the resulting low water level on Camp Lake. Total aluminum concentrations in Camp Lake, including the discharge, closely tracked concentrations observed at SC-1.

Concentrations in spring 2022 and 2023 appear to have been affected by higher concentrations measured over winter (as measured on March 18, 2022 and February 14, 2023). Total aluminum concentrations in winter 2021/2022 and 2022/2023 did not decline to the same extent as previous winters due to the negligible flows at the end of both sampling years and the presence of stoplogs at the discharge weir. Conversely, total aluminum concentrations fully recovered under ice conditions over winter 2023/2024 and were consistent with concentrations measured in winters 2019 – 2021. During the 2023/2024 winter, the system was operating with no stoplogs at the discharge weir which is consistent with conditions over 2019 – 2021 winters and would have allowed flow to continue over the discharge until the lake froze over. The increase in aluminum concentrations measured in May 2024 were therefore likely affected by the lack of flushing from snow melt rather than high concentrations sustained over winter.

Concentrations above the CLWQPO (ambient SC-1 + 25%) were commonly observed in spring and fall at all Camp Lake stations including the discharge. From July to September, most concentrations within the main

lake axis stations (including the discharge) measured below the CLWQPO until October. Concentrations were above the CLWQPO guideline within the east basin stations during all sampling events in 2024 except for August 20, 2024.

4.3.3.2 Cadmium

Total cadmium concentrations within Camp Lake followed an L-shaped seasonal pattern with the highest concentrations of 2024 occurring in all basins early in the open water season, shortly after ice-out and through June during high precipitation levels (Figure 21). Spring concentrations in 2024 measured higher than recent years, specifically within the east basin which ranged from 0.0014 mg/L to 0.0029 mg/L in May/June compared to spring 2023 concentrations which ranged from 0.00053 mg/L to 0.0010 mg/L. Spring concentrations as high as 2024 were last observed in 2020 which also experienced high levels of precipitation. However, unlike 2020 and recent years, total cadmium concentrations within Sherlett Creek during spring were also elevated and may have been a contributing source to the concentrations observed in Camp Lake in 2024. Total cadmium began to decline rapidly in late June and then continued to decline more slowly and stabilized through September and October. This pattern is consistent with 2023 and 2022. The open water season minima were reached at most stations by early August, at which point concentrations ranged between 0.00025 mg/L (SB-2) and 0.00042 mg/L (EB-1). Background concentrations were also met at this point and all basins, including the discharge, remained consistent with SC-1 until the end of sampling.

The concentrations measured in August 2021 were the lowest open water season concentrations measured since Sherlett Creek flow was restored to the lake in 2018 (DJRC, 2022). The lowest concentrations in 2024 were consistent with these concentrations. Despite the higher-than-normal concentrations observed in spring 2024, total cadmium concentrations recovered quickly and stabilized until sampling ended in late October. Minor increases were observed in October compared to the seasonal lows, however, not to any notable scale and likely caused by negligible flow through the notched cofferdam coupled with the beaver activity. In 2022 and 2023, increases observed in fall were also a result of negligible flows through Sherlett Creek and beaver activity at the notched cofferdam (2023 only). The increase in concentrations at the end of open water monitoring in 2021 was attributed to construction activities that were still ongoing (DJRC, 2022).

Unlike total iron and aluminum, total cadmium concentrations measured in February 2024 did not recover to the same extent under ice conditions. Concentrations measured during the winter sampling event in February ranged from 0.00064 mg/L to 0.0011 mg/L and were consistent with concentrations measured during winter 2022 and 2023. In comparison, concentrations measured during winter 2021 ranged from 0.00013 mg/L to 0.00033 mg/L. Despite the lack of stoplogs at the discharge weir over winter 2023/2024, the flow that would have continued until the lake froze over does not appear to have been sufficient to allow the recovery of total cadmium concentrations in Camp Lake under ice cover.

Concentrations at all Camp Lake stations fluctuated between measuring above and below the CLWQPO (ambient SC-1 + 25%) throughout the 2024 sampling season. The east basin stations were most consistently above the CLWQPO and only measured below during the September 17 and October 2, 2024, sampling events.

Concentrations within Camp Lake, including the discharge, were consistently below the MWQSOG Tier II acute objective (0.00125 mg/L) after July 10, 2024, but remained above the chronic objective (0.00018 mg/L) through the open water season. This pattern is consistent with historical observations.

Total cadmium measured within Camp Lake closely tracked concentrations measured at SC-1 after July 10, 2024, once concentrations had declined from elevated levels during spring. SC-1 measured higher than Camp Lake basins on two occasions in 2024 (September 17 and October 2), however it is unlikely that these concentrations had an effect on Camp Lake given the limited flows observed at this time.

4.3.3.3 Copper

Total copper concentrations along Camp Lake followed an L-shaped seasonal pattern as also observed in 2022 and 2023 (Figure 22). Concentrations in 2024 were highest shortly after ice-out and through June during the period of high precipitation (ranged from 0.021 mg/L at SB-1 to 0.099 mg/L at EB-2). From July to September, concentrations declined rapidly reaching open water seasonal lows on September 4, 2024, in all lake basins (ranged from 0.012 mg/L at NB-1 to 0.014 mg/L at NB-1, EB-1, and EB-2). Increases in concentrations were observed in both sampling events in October (max concentration 0.024 mg/L at EB-2), which reflects the negligible flow through the lake and the low water level on Camp Lake. Similar increases in October were observed in turbidity, TSS, aluminum, and cadmium. Comparatively, increases in total copper concentrations through fall were not observed in 2022 or 2023. Concentrations in the East basin were not substantially higher than concentrations within the main lake axis stations except for the sampling events in May and June.

Similar to other key metals, spring concentrations of total copper measured in 2024 were higher than recent years, specifically in the East basin, and were more consistent with concentrations measured in 2020 which was a year that also experienced high levels of precipitation through spring. Consistent with total cadmium, total copper concentrations within Sherlett Creek during spring were also elevated and may have been a contributing source to the concentrations observed in Camp Lake in 2024. Total copper concentrations measured in February 2024 were consistent with 2022 and 2023, in which concentrations did not recover under ice conditions to the extent observed in 2019 – 2021. Concentrations measured on February 21, 2024, ranged from 0.011 mg/L to 0.018 mg/L (all above Tier II chronic and acute objectives) compared to March 3, 2020, where concentrations ranged from <0.00020 mg/L to 0.0046 mg/L (all below Tier II chronic and acute objectives). Like total cadmium, the flow through Camp Lake does not appear to have been sufficient to allow total copper concentrations to recover under ice conditions.

Total copper concentrations in all Camp Lake basins, including the discharge, were above the MWQSOG Tier II chronic (0.00598 mg/L) and acute (0.00857 mg/L) objective throughout the 2024 open water season. This is consistent with previous years results.

Similar to total cadmium, total copper concentrations in all basins including the Camp Lake discharge fluctuated between measuring above and below the CLWQPO (ambient SC-1 + 30%) throughout the 2024 sampling season. In the main lake axis stations, concentrations dropped below the CLWQPO in June, August, and from late September to the end of sampling. In the East basin, concentrations were only below the CLWQPO on four sampling dates (EB-1) and three sampling dates (EB-2) in 2024.

Total copper concentrations at SC-1 were low in May but increased rapidly in June during the period of high precipitation. It is likely that concentrations in Camp Lake were affected by the higher concentrations due to the large influx of volume flowing in from Sherlett Creek. After June, SC-1 concentrations were typically lower or equivalent to Camp Lake except on October 2, 2024, where SC-1 measured 0.033 mg/L compared to the highest concentration in Camp Lake (0.024 mg/L at EB-2).

4.3.3.4 Zinc

Total zinc concentrations along Camp Lake followed an L-shaped seasonal pattern as similarly observed in 2022 and 2023 (Figure 23). Concentrations were highest shortly after ice-out and through June during the period of high precipitation (ranged from 0.20 mg/L at CB-1 to 0.82 mg/L at EB-2). From July to September, concentrations declined rapidly reaching open water seasonal lows on September 4, 2024, in all lake basins (ranged from 0.070 mg/L at SB-2 to 0.094 mg/L at EB-2). Slight increases in concentrations were observed during the sampling events in October (max concentration 0.19 mg/L at EB-2), which reflects the negligible flow through the lake and the low water level on Camp Lake. Similar increases in October were observed in turbidity, TSS, aluminum, cadmium, and copper. Fall concentrations measured in 2024 were consistent with results from 2022 and 2023 and lower than years prior. Similar to total copper, concentrations in the East basin were not substantially higher than concentrations within the main lake axis stations except for the sampling events in May and June.

Similar to other key metals, spring concentrations of total zinc measured in 2024 were higher than recent years, specifically in the East basin, and were more consistent with concentrations measured in 2020 which was a year that also experienced high levels of precipitation through spring. Consistent with total cadmium and copper, concentrations of total zinc within Sherlett Creek during spring were also elevated compared to recent years and may have been a contributing source to the total zinc observed in Camp Lake. Total zinc concentrations measured in February 2024 did not recover under ice conditions to the extent observed in 2019 – 2021 and were consistent with winter sampling events in 2022 and 2023. Concentrations increased from the last sampling event in October 2023 and ranged from 0.20 mg/L to 0.34 mg/L on February 21, 2024 (above the Tier II acute and chronic objectives). Like total cadmium and copper, the flow through Camp Lake does not appear to have been sufficient to allow total zinc concentrations to recover under ice conditions.

Total zinc concentrations in all Camp Lake main axis basins, including the discharge, were above the MWQSOG Tier II chronic and acute objective (0.0771 mg/L) throughout the 2024 open water season, except for the two sampling events in September. The East basin stations remained above the MWQSOG Tier II objective during the September 4 and 17 sampling events.

Similar to total cadmium and copper, zinc concentrations at all lake basins, including the Camp Lake discharge, fluctuated between measuring above and below the CLWQPO (ambient SC-1 + 25%) throughout the 2024 sampling season. Concentrations above the CLWQPO were typically observed in spring and summer with all stations dropped below criteria in September and October.

Total zinc concentrations at SC-1 were elevated through June during the period of high precipitation and it is likely that concentrations in Camp Lake were affected by the higher concentrations due to the large influx of volume flowing in from Sherlett Creek. After June, SC-1 concentrations were typically lower or equivalent to Camp Lake except on October 2, 2024, where SC-1 measured 0.33 mg/L compared to the highest concentration in Camp Lake (0.19 mg/L at EB-2).

4.4 Cold Lake

A discharge over the north weir was observed at every sampling event in 2024, therefore Camp Lake water quality had the potential to affect water quality in Cold Lake from May to October 2024. Water quality results from Cold Lake throughout 2024 are considered to be representative of conditions while the system is operating as intended (i.e., no stoplogs at the discharge weir).

4.4.1 PH, ALKALINITY AND SULPHATE

The field pH and alkalinity within the Camp Lake discharge closely tracked all basins in Camp Lake throughout 2024. The field pH of the discharge was below the CLWQPO and the MWQSOG Tier III guideline of pH = 6.5 (minimum) on the first sampling event in May but recovered quickly and measured above guideline for the remaining sampling events.

Stations included in the Cold Lake mixing zone (CL-3, CL-7, and CL-8) all had field pH values within the Tier III guideline range throughout 2024, ranging from 6.99 to 7.57 (Figure 24). One value below the Tier III guideline was measured at CL-8 sfc on July 10, 2024 (6.24), however it was likely anomalous and was not related to the discharge which measured 7.37 on that date. Field pH values in the Cold Lake stations located outside the mixing zone (CL-2, CL-4, CL-5, and CL-6) all had field pH values within the Tier III guideline throughout 2024, ranging from 6.57 to 8.36 (Figure 25). One value below the Tier III guideline was measured at CL-6 btm on August 20, 2024 (6.08), however again, this result is likely anomalous (CL-6 sfc measured 6.60) and not related to the discharge (which measured 7.17). Historically, field pH at Cold Lake stations outside the mixing zone would fluctuate below the Tier III lower guideline (6.5) often throughout the open water season. In 2023, field pH measured below guideline in February and May before increasing and measuring above guideline for the remainder of the open water season. The 2024 sampling season was the first year since 2018 that field pH in Cold Lake has only measured below guideline on two occasions. Historically, field pH measured within the mixing zone has consistently remained within the Tier III guideline (6.5 – 9.0).

Field pH measured over winter from 2021 – 2023 at all Cold Lake stations has been on the low end of the Tier II guideline (6.5) and not shown signs of fully recovering under ice conditions. Comparatively, field pH values measured on February 21, 2024, ranged from 7.06 to 7.92 and maintained the neutrality measured during the last sampling event in 2023 (October 17). Despite the low field pH measured at the Camp Lake discharge on May 28, 2024 (5.09), field pH values measured within the mixing zone were consistently neutral and ranged from 7.21 to 7.33, showing no signs of influence from the discharge. Field staff observed water discharging over the north weir during the sampling event on May 28, 2024.

Alkalinity within Cold Lake was maintained at a consistently high level ranging from 13 mg $CaCO_3$/L to 43 mg $CaCO_3$/L (Figures 26 and 27). Concentrations were similar to or higher than concentrations measured since sampling began in 2017. Total alkalinity measured on February 21, 2024, were some of the highest concentrations measured in 2024 (ranged from 33 $CaCO_3$/L to 43 mg $CaCO_3$/L) and some of the highest concentrations measured since sampling began in 2017. The low alkalinity concentration measured at the Camp Lake discharge on May 28, 2024 (<1 mg $CaCO_3$/L) had no effect on the mixing zone which ranged from 26 $CaCO_3$/L to 29 mg $CaCO_3$/L.

In accordance with the requirements specified in the AMP, sulphate was added as a key water quality parameter for analysis as of 2023. Sulphate had not been analyzed in any other monitoring years except for 2021. Sulphate concentrations within Cold Lake mixing zone in 2024 appeared to be influenced by concentrations measured at the discharge during the two sampling events in June, through the period of high precipitation (Figure 32). Outside of June, concentrations measured within the mixing zone were not affected by discharge concentrations. For instance, on May 28, 2024, the discharge measured 270 mg/L compared to the mixing zone which ranged from 13 mg/L to 16 mg/L and on October 17, 2024, the discharge measured 120 mg/L compared to the mixing zone which measured 26 mg/L at all stations. Similar observations were noted in 2021 and 2023; outside of spring, the discharge had no effect on sulphate concentrations within the mixing zone. Sulphate measured at Cold Lake stations outside of the mixing zone remained consistent

throughout 2024 and ranged from 14 mg/L to 44 mg/L (Figure 33). These concentrations are consistent with ranges observed in 2021 and 2023. All sulphate concentrations measured in Cold Lake throughout 2024 were well below the MWQSOG Tier III guideline of 500 mg/L.

4.4.2 TSS, TURBIDITY AND IRON

4.4.2.1 TSS

TSS concentrations in the Camp Lake discharge followed a similar U-shaped pattern to that of the rest of Camp Lake. TSS at the Camp Lake discharge ranged from from <1 mg/L to 6.0 mg/L.

TSS concentrations in the Cold Lake mixing zone in 2019, 2020, and 2021 showed initial higher concentrations in spring, due to high flows from the discharge during spring runoff (Figure 28). This trend was not observed in 2022 or 2023, with all concentrations being equal to or below 3.3 mg/L throughout the duration of open water sampling. In 2024, concentrations were low in February and May and increased up to 2.7 mg/L in June, however compared to 2019 – 2021 where spring concentrations reached as high as 6.0 mg/L, TSS concentrations in spring 2024 remained low. After June, TSS concentrations within the mixing zone remained below 2.0 mg/L and frequently measured <1 mg/L. During the last three sampling events of the year, TSS concentrations at the discharge increased from 2.7 mg/L to 6.0 mg/L. Despite the increase in concentrations, the mixing zone remained unaffected and ranged from <0.99 mg/L to 1.3 mg/L.

TSS concentrations within the Cold Lake stations outside the mixing zone followed a similar trend to that of the mixing zone, with concentrations measuring below 2.9 mg/L throughout open water sampling (Figure 29). A concentration of 11 mg/L was measured at CL-6 sfc on October 2, 2024; however, the result is likely anomalous as CL-6 btm measured <1.0 mg/L on the same date. The Camp Lake discharge had no effect on TSS concentrations at any station outside the mixing zone in Cold Lake in 2024.

It is notable that seasonal patterns prior to 2019 are not known due to the 4 mg/L analytical detection limit previously employed. TSS concentrations in the mixing zone and wider Cold Lake stations have remained well below the MWQSOG Tier II chronic objective of 11.5 mg/L since 2017.

4.4.2.2 Turbidity

The Camp Lake discharge followed the same pattern for turbidity as TSS (“U-shape”), with higher values measured in late May and early June and also in fall. Turbidity in the Camp Lake discharge ranged from summer lows of 1.2 to 4.7 NTU to highs of 11 NTU in spring and 21 NTU in fall.

Turbidity in the Cold Lake mixing zone was higher in June during the period of high precipitation (ranged from 2.3 NTU to 9.7 NTU) and was likely affected by the discharge which measured 7.6 NTU (June 11) and 11 NTU (June 25) (Figure 30). Since the re-establishment of flow through Sherlett Creek in 2018, turbidity within the mixing zone has followed the U-shaped pattern with higher values also observed in fall. In 2024, the typically fall increase did not occur to the same degree and values remained below 3.9 NTU. The mixing zone during fall was not affected by the increased levels of turbidity observed at the discharge which reached 21 NTU by the end of open water sampling.

Turbidity at the Cold Lake stations located outside the mixing zone followed a similar trend to that of the mixing zone, with the highest values measured in June (up to 7.4 NTU at CL-4 btm) followed by a decrease and stabilizing of values until the end of open water sampling (Figure 31). Turbidity at the Cold Lake stations outside the mixing zone did not appear to be affected by turbidity in the mixing zone. Turbidity levels at all stations showed a more consistent range compared to 2022 and 2023 and measured generally between <1

NTU to 4.5 NTU. One higher-than-normal value was recorded at CL-4 btm on August 20, 2024 (13 NTU), which has also occurred historically in 2017, 2018, 2022, and 2023.

4.4.2.3 Iron

Total iron concentrations in the Camp Lake discharge closely tracked concentrations in Camp Lake and were the highest in late summer and fall. Concentrations ranged between 0.40 mg/L and 1.8 mg/L in spring and early summer and from 1.7 mg/L to 5.8 mg/L in late summer and fall. All measured concentrations were above the MWQSOG Tier III guideline (0.3 mg/L) throughout the duration of open water sampling.

In 2024, the concentrations of total iron at the Cold Lake mixing zone stations were highest in spring (0.52 mg/L to 1.2 mg/L), when concentrations and flow from the discharge were the highest and declined to seasonal lows (0.21 mg/L to 0.30 mg/L) by July 10, 2024 (Figure 34). Similar to TSS and turbidity, it is likely that the discharge had an effect on concentrations within the mixing zone during June when water levels were highest. Thereafter, the mixing zone was not affected by the discharge even through the late summer and fall increase in concentrations observed at the discharge. The lack of increase in concentrations through fall is similar to 2022 and 2023 and may be attributed to less iron loading and the overall improvement of water quality within Cold Lake. Increases in concentrations in fall in previous years may be attributed to autumnal mixing of the water column with increased water temperatures – enabling flow mixing to the bottom of the lake and resuspension of iron that is released from lake sediments under anoxic conditions (DJRC, 2022). Total iron concentrations within the mixing zone stations measured higher than the MWQSOG Tier III guideline on most sampling events in 2024 except for February 21, May 28, July 10, July 23, and August 20 (only CL-8 sfc).

Total iron concentrations within the Cold Lake stations located outside the mixing zone remained low and were fairly consistent from May to October (Figure 35). Concentrations ranged from <0.06 mg/L to 0.8 mg/L throughout the open water season and no increase in concentrations were observed in spring compared to previous years. Concentrations measured in 2024 were consistent with 2023 and were the lowest measured since 2019 and showed less variability and lower concentrations than 2020 – 2022. Total iron concentrations in Cold Lake generally started lower than the MWQSOG Tier III guideline but increased above the guideline at most stations by early August.

During the period of time that Sherlett Creek was diverted from Camp Lake and water treatment was being used to manage water quality in Camp Lake, concentrations of total iron in Cold Lake were measured as high as 2.29 mg/L on near-bottom samples (DJRC, 2022). In comparison, total iron concentrations in 2024 were well below this background concentration throughout the open water season and only reached as high as 1.5 mg/L (August 20, 2024 at CL-4 btm).

4.4.3 TOTAL METALS

4.4.3.1 Aluminum

The Camp Lake discharge appeared to have some effect on total aluminum concentrations in the Cold Lake mixing zone through June 2024 during the period of high precipitation. Thereafter, the discharge had minimal effect on the mixing zone despite the highly variable concentrations that were measured at the discharge throughout the 2024 open water season (compared to previous years). The concentrations of total aluminum within the mixing zone stations were highest in June (ranged from 0.063 mg/L to 0.19 mg/L) and decreased to below the MWQSOG Tier III guideline (0.10 mg/L) for the remainder of the open water season (Figure 36).

Seasonal lows were reached on September 17, 2024, where measured concentrations ranged from 0.029 mg/L (CL-7 sfc) to 0.037 (CL-3 btm). Overall, total aluminum concentrations within the mixing zone showed more variability compared to 2023, correlating to an increase in influence from the discharge. However, when compared to mixing zone concentrations from years with similar levels of precipitation in spring and no stoplogs at the discharge weir (e.g., 2020), total aluminum concentrations measured in 2024 have shown a significant decrease.

Total aluminum concentrations in Cold Lake stations located outside the mixing zone were generally consistent with the mixing zone (between 0.017 mg/L and 0.10 mg/L; Figure 37). Concentrations were below the MWQSOG Tier III guideline at all stations outside the mixing zone throughout the open water season. The lowest concentrations measured in Cold Lake, including the mixing zone, were during ice cover in February where total aluminum ranged from 0.0092 mg/L to 0.039 mg/L. Concentrations of total aluminum within Cold Lake outside of the mixing zone were not affected by the discharge at any time during the 2024 open water sampling. Overall, total aluminum concentrations measured in 2023 and 2024 are significantly lower than concentrations measured between 2020 – 2022 and more consistent with 2016 – 2019 concentrations.

4.4.3.2 Cadmium, Copper, and Zinc

In 2024, the concentrations of total cadmium, copper, and zinc within the mixing zone stations (CL-3, CL-7, and CL-8) were higher in spring and summer than in fall and initially higher at CL-3 compared to CL-7 and CL-8 (Figures 38, 40, and 42). The concentrations of total cadmium and total zinc at all mixing zone stations decreased to below MWQSOG Tier II objectives by August 7 and July 23, 2024, respectively. Concentrations of total copper at all mixing zone stations measured above the MWQSOG Tier II acute objectives throughout the 2024 open water season except for all stations in September and some stations in October. Total copper concentrations did not drop below the Tier II chronic objective during any sampling event except for February and May 2024. The Camp Lake discharge concentrations appeared to have affected concentrations within the Cold Lake mixing zone in June for all three metals. Concentrations were elevated similar to 2020 which also experienced high precipitation in June. After June 2024, concentrations of total cadmium, copper, and zinc decreased until the end of open water sampling, reaching seasonal lows in September and October that were comparable to concentrations observed in 2021 – 2023. Comparatively in 2020, concentrations decreased from spring but remained high and above Tier II objectives throughout the open water season.

Total cadmium, copper, and zinc concentrations within the Cold Lake stations located outside the mixing zone followed a reverse U-shaped pattern with the lowest concentrations observed at the beginning and end of sampling and the highest concentrations observed in June and July (Figures 39, 41, and 43). Total cadmium concentrations in Cold Lake outside the mixing zone were below the Tier II chronic objective in February and May and from August to October. Select concentrations measured above the Tier II chronic objective at CL-2, CL-4, and CL-5 in June and July. Total zinc concentrations outside the mixing zone were above the Tier II acute and chronic objective at only two stations in 2024: CL-2 (July 10 and July 23) and CL-4 (June 11 and June 25). Conversely, total copper concentrations above Tier II chronic and/or acute objectives were present at all Cold Lake stations throughout open water sampling. Total copper concentrations in Cold Lake in 2024 were higher in June through August compared to historical ranges. Total copper concentrations in 2020 were also high and remained high throughout the sampling season.

The higher concentrations of total cadmium, copper and zinc in June and July were likely influenced by the high level of precipitation during that period and the corresponding runoff and higher volume of flow coming from the discharge. It is likely that the discharge had some influence on the higher concentrations within Cold

Lake outside of the mixing zone as peak concentrations (dissolved and total) during June and July were some of the highest observed within the post-construction phase. The high concentrations of dissolved cadmium, copper, and zinc (and lower particulate concentrations) measured at the discharge would require a longer residence time to settle out of the water column as particulates. However, with the high discharge rate, residence time was limited and therefore, metals concentrations from the discharge were able to affect concentrations in Cold Lake outside of the mixing zone.

In the absence of the Camp Lake discharge, total cadmium concentrations in Cold Lake have been measured as high as 0.00034 mg/L while total zinc concentrations have been measured as high as 0.098 mg/L (DJRC, 2022). Despite the higher-than-normal concentrations observed in 2024, the concentrations of total cadmium and total zinc at all Cold Lake stations outside the mixing zone were well below these values even during the high flow period. Total copper concentrations in Cold Lake have ranged as high as 0.011 mg/L (i.e., above the Tier II acute objective) outside of any discharge event (DJRC, 2022). CL-2, CL-4, and CL-5 had measured concentrations above the maximum background concentration in July and early August. CL-2 reached a maximum concentration of 0.015 mg/L, CL-4 reached 0.017 mg/L and CL-5 reached 0.015 mg/L. Although concentrations of total cadmium, copper, and zinc were elevated in June and July, concentrations recovered to low levels by the end of the open water season, therefore long-term adverse effects are not anticipated.

4.5 Discharge Toxicity

Water samples were collected from the Camp Lake discharge weir for testing of acute toxicity (96-hour LC_{50}) to juvenile rainbow trout on three dates in 2024 (May 25, July 10, and September 4). This toxicity test is one of the standard toxicity tests specified in the Metal and Diamond Mining Effluent Regulations (MDMER), which is not applicable to the Sherridon Reclamation Project but is completed to demonstrate whether the discharge water quality presents a toxicity risk to the aquatic environment. Rainbow trout are one of the standard test organisms because they are more sensitive to potentially toxic materials than many other fish species.

The LC_{50} is the effluent concentration that is lethal to 50% of the fish tested. An LC_{50} result of >100% indicates that the discharge is not acutely toxic to fish. The test results from May and September returned an LC_{50} > 100% result (Table 7). The test from July 10, 2024, was conducted at a single effluent concentration due to limited sample volume being received by the lab. The test is run at 100% effluent (undiluted) concentration over a 96-hour period to determine the mortality percentage and is still a method that demonstrates compliance under the MDMER. The sample test result from July 10 returned 0% mortality and therefore the sample was determined not toxic to the aquatic environment.

The test results from September 4 returned 0% mortality and 0% atypical behavior noted over the 96-hour test, however the test results from May returned 20% mortality (2/10 fish) and 80% atypical behavior (8/10 fish) only at 100% effluent concentration and during the last 24-hour period of the test. The pH noted at the beginning of the test was 5.2 and the pH at the start of the 96-hour period was 5.3. It is likely that the low pH was the cause of the mortalities and atypical behavior (which was described as lethargic). Despite the mortalities, an LC_{50} result of >100% was still received as there were less than 50% mortality in the trout tested.

Based on the test results, the Camp Lake discharge was not acutely toxic to fish at any time over the six-month open water monitoring period.

4.6 Groundwater Monitoring and Sampling

The following sections discuss the field and laboratory results for the groundwater monitoring events completed on June 12 and October 3, 2024, with data comparisons to previous samplings events. Since the on-site groundwater monitoring wells were installed in January and February 2022, there have been a total of six sampling events.

The groundwater results are compared to the MWQSOG, which were the reference criteria utilized for comparison of the February 2022 data (Tetra Tech; April 27, 2022 Memo). The groundwater results are compared to the MWQSOG based on sample specific hardness values measured for each groundwater sample.

Groundwater samples were collected from all 12 groundwater wells during both sampling events. During each sampling event in June and October, a total of 13 samples, including one field duplicate sample, were submitted to BV Laboratory in Winnipeg, Manitoba for laboratory analyses of general water chemistry, total metals, and dissolved metals. For comparison purposes, the groundwater analytical results are described below in terms of overburden and bedrock monitoring wells.

The 2024 results for field chemistry are provided in Table 9, general water quality in Table 10, dissolved metals in Table 11, and total metals in Table 12. The groundwater CoAs are included in Appendix D.

4.6.1 ROUTINE AND FIELD PARAMETERS

Bedrock Groundwater

Field pH measured for the bedrock monitoring wells MW-01-BR, MW-02-BR, and MW-04-BR showed consistent above neutral pH levels between 7.20 and 8.20 (i.e., within the MWQSOG Tier III guideline range) during both the June and October sampling events. MW-05-BR and MW-08-BR both had pH levels below the minimum MWQSOG Tier III guideline in the spring (6.26 and 5.62, respectively), however in the fall, pH levels were within the Tier III guideline range at both wells (6.89 and 6.52, respectively). MW-06-BR and MW-07-BR had slightly acidic pH levels during both sampling events with levels measuring between 4.65 and 5.95 (all below the minimum MWQSOG Tier III guideline). Monitoring wells MW-06-BR, MW-07-BR, and MW-08-BR are located within the vicinity of the former shaft and glory hole sites associated with the historic East Mine Workings Area (Figure 2), which likely explains the slightly acidic conditions observed within these wells. Overall, field pH levels in all wells were consistent with 2022 and 2023 ranges.

The remaining general chemistry parameters showed overall consistency within each groundwater well with some seasonal variation. Generally, concentrations measured in 2024 were elevated in fall compared to spring which is consistent with concentrations measured in 2022 and 2023. Higher concentrations of conductivity, total alkalinity, bicarbonate, chloride, and TDS were observed in the wells north of Sherlett Creek (MW-01-BR, MW-02-BR, and MW-04-BR) in 2022, 2023, and 2024 sampling events. Since sampling started in 2022, MW-01-BR has shown elevated concentrations of conductivity, total hardness, TDS, sulphate and total alkalinity when compared to other bedrock wells.

Overburden Groundwater

Field pH measurements for the groundwater samples collected from the overburden groundwater wells (MW-03-OB, MW-04-OB, and MW-11-OB) showed consistent near neutral levels in June and October ranging from 6.85 to 7.56. MW-09-OB and MW-10-OB had field pH levels on the lower end of the MWQSOG Tier III guideline (6.5 – 9.0) and ranged from 6.42 to 6.57 in June and October. All groundwater samples collected from the overburden wells had field pH values that were within the MWQSOG Tier III guideline, except for MW-09-OB (in June) and MW-10-OB (in June and October). In 2022 and 2023, these two wells had field pH values above the Tier II guideline however all values were on the lower end. Both wells are located within a wetland area downgradient of the former East Mine Workings Area (Figure 2) which likely explains the slightly acidic conditions observed within these wells.

Other general chemistry parameters including conductivity, TDS, sulphate, and hardness were consistent between spring and fall 2024 and when compared to 2022 and 2023 concentrations. The only parameter that was notably different between wells was total alkalinity which measured high in MW-03-OB and MW-04-OB and low in the remaining overburden wells, however this is consistent with historical concentrations. A high total alkalinity indicates the water has a high capacity to neutralize acids and resist changes in pH levels. Field and lab pH in MW-03-OB and MW-04-OB have been consistent since 2022 and have measured 7.00 or higher.

4.6.2 DISSOLVED METALS

The June and October 2024 results for dissolved metals in groundwater are included in Table 11.

Bedrock Groundwater

Dissolved metal concentrations in MW-01-BR, MW-02-BR, MW-04-BR, and MW-05-BR were consistently low and below the hardness dependent MWQSOG Tier II chronic and acute guidelines during both spring and fall 2024 sampling events. The exceptions were MW-02-BR which had a dissolved copper concentration that measured above the acute guideline in October (0.023 mg/L) and MW-05-BR had a concentration of dissolved copper measure above the chronic guideline in June (0.0098 mg/L). Notably, MW-01-BR had elevated concentrations of calcium, magnesium, and potassium compared to other bedrock wells in 2022, 2023, and 2024. The elevated concentrations of minerals combined with the elevated concentrations of total hardness suggests that the water in MW-01-BR is likely “hard water” (i.e., high mineral content). Overall, concentrations measured in 2024 at all four wells were consistent with concentrations observed in 2022 and 2023.

MW-06-BR, MW-07-BR, and MW-08-BR all had higher concentrations of key dissolved metals parameters during the 2024 spring and fall sampling events, compared to the other bedrock wells. All three groundwater wells had concentrations above the MWQSOG Tier II acute and chronic objectives for dissolved copper (0.049 mg/L to 6.1 mg/L) and dissolved zinc (0.78 mg/L to 31 mg/L). MW-06-BR and MW-07-BR also had concentrations of dissolved cadmium above the Tier II chronic and acute objectives (0.060 mg/L to 0.12 mg/L) and dissolved cadmium concentrations in MW-08-BR were above the Tier II chronic objectives (0.0028 mg/L in June and 0.0016 mg/L in October). Concentrations measured in 2024 were consistent with concentrations observed in 2022 and 2023.

Overall, higher concentrations were typically observed in the spring compared to the fall in 2024 which may have been a result of the high levels of precipitation experienced through June. MW-06-BR and MW-07-BR showed the poorest water quality and higher metal concentrations when compared to the other bedrock

wells. Both of these wells are located in the Former East Mine Workings Area which likely contributes to the higher concentrations of dissolved metals.

Overburden Groundwater

Dissolved metal concentrations in MW-03-OB and MW-04-OB were consistently low and below the hardness dependent Tier II chronic and acute guidelines during both spring and fall 2024 sampling events which is consistent with concentrations observed in 2022 and 2023.

MW-09-OB, MW-10-OB, and MW-11-OB all had dissolved zinc concentrations above the MWQSOG Tier II acute and chronic objectives in spring and fall 2024. Concentrations ranged from 0.75 mg/L (MW-11-OB) to 24 mg/ (MW-09-OB) which is consistent with concentrations observed in 2022 and 2023. MW-10-OB also had dissolved cadmium concentrations above the Tier II chronic objectives in spring and fall 2024 (0.0038 mg/L and 0.0023 mg/L, respectively). These concentrations are consistent with concentrations measured in 2022 and 2023 at MW-10-OB.

Overall, higher dissolved concentrations in 2024 were generally observed at MW-09-OB, MW-10-OB, and MW-11-OB which is consistent with 2022 and 2023 results and is likely attributed to the wetland location of the groundwater wells. Unlike the bedrock wells, dissolved metal concentrations were not necessarily higher in the spring compared to the fall in the overburden wells.

4.6.3 TOTAL METALS

The June and October 2024 results for total metals in groundwater are included in Table 12.

Bedrock Groundwater

Total aluminum concentrations were above the MWQSOG Tier III guideline in all seven bedrock wells in 2024 and ranged from 0.028 mg/L at MW-05-BR to 5.1 mg/L at MW-07-BR (not including MW-02-BR). These concentrations are consistent with concentrations measured in 2022 and 2023. MW-02-BR measured 43 mg/L in June and 35 mg/L in October for total aluminum, which is not consistent with previous results which ranged from 0.15 mg/L to 0.63 mg/L. Future sampling events will help determine if these are anomalous results or further investigation is required. Total iron concentrations were above the Tier III guideline in all bedrock wells during both sampling events except for MW-05-BR and MW-07-BR in June (<0.060 mg/L and 0.069 mg/L, respectively). Total iron concentrations measured in the bedrock wells were consistent with previous years data except for MW-02-BR which measured 37 mg/L in June and 27 mg/L in October. In 2022 and 2023, total iron ranged from 0.25 mg/L to 0.73 mg/L in MW-02-BR. MW-02-BR also had concentrations above MWQSOG objectives for total copper and total lead where historically, concentrations were below guideline. The increase in concentrations at MW-02-BR for select key total metal parameters will continue to be monitored during future sampling events. In June, the well was flooded from high waters in Sherlett Creek which may have been a contributing factor to changes in concentrations from previous years which did not experience flooding.

MW-06-BR, MW-07-BR, and MW-08-BR all had concentrations above the hardness-dependent MWQSOG Tier II acute and chronic objectives for total cadmium, copper, and zinc in 2024, however, this is consistent with previous years' results. In 2022 and 2023, MW-05-BR had total copper concentrations above MWQSOG Tier II objectives, however in 2024, both June and October results were below guideline. MW-01-BR had concentrations above MWQSOG Tier III guidelines for total selenium and total uranium (October only) which

are consistent with 2022 and 2023 results. MW-07-BR also had concentrations above MWQSOG Tier III guidelines for total selenium and total silver (October only), which are both consistent with previous years.

Overall, higher concentrations were typically observed in the spring compared to the fall in 2024, similar to dissolved metals, and most likely attributed to the high levels of precipitation experienced in spring 2024. Unusually high concentrations of total aluminum, copper, iron and lead were observed in MW-02-BR in both spring and fall sampling events and future sampling will be important to determine if the results were anomalous or due to flooding at the well.

Overburden Groundwater

Total aluminum concentrations were above the MWQSOG Tier III guideline in all five overburden wells in 2024, however all wells showed a decrease in concentrations compared to previous years' results. Prior to 2024, total aluminum concentrations in MW-03-OB ranged from 20 mg/L to 100 mg/L and in 2024 concentrations measured 0.11 mg/L in June and 2.8 mg/L in October. The exception was at MW-04-OB in June where total aluminum measured 110 mg/L and previous concentrations ranged from 0.0049 mg/L to 12 mg/L. During the June sampling event, numerous key parameters measured higher-than-normal at MW-04-OB including total cadmium (0.0015 mg/L), chromium (0.30 mg/L), copper (0.25 mg/L), iron (170 mg/L), lead (0.052 mg/L), mercury (0.000084 mg/L), nickel (0.20 mg/L), selenium (0.0013 mg/L), silver (0.00069 mg/L), thallium (0.0014 mg/L), and zinc (0.76 mg/L). All parameters were above their respective guidelines. During the sampling event in October, all above-mentioned key parameters decreased and measured within their normal ranges. The high levels of precipitation in June may have affected the water quality at MW-04-OB.

MW-03-OB, MW-09-OB, MW-10-OB, and MW-11-OB were above the Tier III guideline for total iron and the Tier II objective for total zinc during both sampling events in 2024. Measured concentrations were consistent with results from 2022 and 2023, except for MW-03-OB which measured significantly lower in 2024. Total iron measured 3.7 mg/L in June and 6.9 mg/L in October at MW-03-OB, compared to previous years where concentrations ranged from 25 mg/L to 170 mg/L. Similarly for total zinc, concentrations measured 0.40 mg/L in June and 0.69 mg/L in October compared to previous years where concentrations ranged from 1.6 mg/L to 28 mg/L. A number of other key parameters showed notable decreases in concentration at MW-03-OB in 2024, including total cadmium, chromium, copper, lead, nickel, selenium, and silver. Concentrations for these parameters had previously been above criteria, however in 2024, all parameters measured below.

Additional concentrations above MWQSOG Tier II objectives included total cadmium at MW-10-OB (spring and fall) which is consistent with past results. Overall, higher total metal concentrations in 2024 were generally observed at MW-09-OB, MW-10-OB, and MW-11-OB which is consistent with 2022 and 2023 results and is likely attributed to the wetland location of the groundwater wells. Similar to total metal concentrations in bedrock wells, higher concentrations of total metals in the overburden wells occurred more frequently in the spring compared to the fall.

4.7 QA/QC

A total of three field duplicate samples were collected during each biweekly surface water sampling event and submitted for laboratory analysis along with one trip blank sample. During the groundwater sampling events, one field duplicate sample was collected from MW-05-BR (June) and from MW-07-BR (October). A field blank and trip blank were also submitted for laboratory analysis. A field blank was not submitted during

the October 2024 sampling trip. Additionally, during groundwater sampling events, an extra field duplicate was collected at the additional Sherlett Creek sample locations (SC-2 to SC-6).

QA/QC assessment includes calculation of relative percent difference (RPD) for original and duplicate sample results, calculated as:

$$RPD = \frac{(A - B) \times 100}{(A + B) / 2}$$

Where: A = concentration of constituent in the original sample

B = concentration of constituent in the duplicate sample

Relative Percent Difference (RPD) was calculated for each duplicate and results are shown in Tables 4 to 6 for surface water and Tables 10 to 12 for groundwater. General accepted protocols allow for a 30% RPD for water sample results that are greater than five times the detection limit of the analysis. Overall, QA/QC results show a high consistency between original and duplicate samples collected in 2024 for surface water. There were two instances where the RPD values were unusually elevated, on August 7, 2024, at CL-6 sfc total lead had a RPD value of 128% and total molybdenum had a RPD value of 133%. On October 2, 2024, at NB-2 total lead had an RPD value of 148% and total nickel had a RPD value of 191%. Variations in results may be due to excessive turbidity and sediment in a sample, or collection timing between parent and duplicate sample bottles.

Overall, QA/QC results show a high consistency between original and duplicate samples collected in 2024 for groundwater. Elevated RPD values were observed at MW-05-BR on June 12, 2024, for dissolved and total aluminum (191% and 194%, respectively) and for dissolved and total copper (116% and 124%, respectively). The instances of elevated RPD values are likely due to seasonal variation observed in groundwater wells.

5.0 PROGRESS TOWARD PROTECTION OF KISSISSING LAKE

One of the primary objectives of the Sherridon Reclamation Project is to prevent further degradation of Kississing Lake water quality related to runoff and discharge of mining impacted water from the former Sherridon Mine Site (AMP, 2022). Water quality monitoring within Kississing Lake was completed in September 2008 as part of a baseline study completed prior to the start of construction activities for site reclamation (Tetra Tech WEI, 2016). The September 2008 water quality results enable comparison of the current monitoring data to this data set to evaluate the degree of improvement that has been achieved through site reclamation works. It is important to continue to evaluate water quality to assess ongoing progress towards improvement of water quality within Kississing Lake.

During the 2024 open water season, the mean concentrations of the key total metals and key dissolved metals in the Camp Lake discharge were 65% to 93% lower and 72% to 98% lower, respectively, than concentrations measured in September 2008 (Table 13). From 2008 to 2024, the mean discharge pH increased from 3.4 to 6.93 (Table 13). From the 2021 to 2024 open water seasons, the mean concentrations of total and dissolved aluminum, cadmium, copper, and zinc showed no distinct changes. In 2024, total iron and dissolved iron concentrations showed a 9% decrease and 8% decrease, respectively, from 2021 concentrations.

The percent reduction in the mean concentrations of aluminum, cadmium, copper, and zinc at Cold Lake stations CL-2, CL-3, CL-4, and CL-5 correlate with the percent reduction in the mean metal concentrations occurring in the Camp Lake discharge (Table 14 and Table 15). Station CL-6 indicated a smaller percent reduction relative to the other stations; however, CL-6 contained lower mean metal concentrations relative to the other stations in 2008 (due to being farther from the historical discharge). Due to the reduced metal concentrations in the Camp Lake discharge, the mean concentrations of total cadmium (excluding CL-3) and total zinc across Cold Lake were below the MWQSOG Tier II chronic exposure objectives (0.00018 mg/L and 0.0771 mg/L, respectively) in 2024. The mean concentrations of total aluminum across Cold Lake were below the MWQSOG Tier III guideline (0.1 mg/L) in 2024.

Reclamation of the Sherridon Mine Site has lowered the total and dissolved iron loading into Cold Lake via the Camp Lake discharge by 88% and 93%, respectively (Table 13), compared to concentrations measured in 2008. The reduced concentrations resulted in decreases in the mean total iron concentrations measured at CL-2, CL-3, CL-4, CL-5, and CL-6 (up to 79% decrease) (Table 15). Similarly, the mean dissolved iron concentrations at CL-2, CL-3, CL-4 sfc and CL-6 decreased up to 89%, while the mean dissolved iron concentrations at CL-4 btm decreased only by 1% and concentrations at CL-5 decreased by 10% (sfc) and 3% (btm) (Table 14).

The disproportionate decreases in the mean concentrations of total and dissolved iron indicate that there is another source of iron to Cold Lake other than the Camp Lake discharge. The 2021 Water Quality Summary Report by DJRC (2022) stated that the most probable source of the additional iron is iron release from the Cold Lake sediments. Due to several decades of uncontrolled release of mining-impacted water from the Sherridon Mine Site, sediments within Cold Lake contain a considerable fraction of iron, representing 25% to 28% of the total sediment mass at the time of the September 2008 Baseline Study. The release of iron from

the Cold Lake sediments was suggested to occur under oxygen-depleted conditions, such as those that develop on lake bottoms under winter ice cover and under thermally stratified conditions that remain in spring/summer (DJRC, 2022; Wetzel, 2001).

6.0 CONCLUSIONS

The 2024 monitoring year was the third year of water quality monitoring in the post-construction phase of the Sherridon Mine Reclamation Project. The 2024 monitoring year was also the third year that the water quality results for Camp Lake were compared to the Camp Lake Water Quality Performance Objectives (CLWQPO), which were developed within the AMP that governs the post-construction and post-closure periods of the reclamation project. The CLWQPO represents proposed targets that have been estimated to be achieved within three to four years of the completion of construction if the system is operated in accordance with design parameters.

For the sixth consecutive year, Sherlett Creek provided sufficient alkalinity to maintain a near-neutral pH within Camp Lake, without the need for batch lime treatment, despite 2024 being the second lowest year of precipitation in the last 10 years and the fourth consecutive year of low flows within Sherlett Creek. However, unlike the past three years, June 2024 saw a large increase in precipitation similar to 2020. The 2024 monitoring year was the first year since 2021 that the Camp Lake discharge was operated as intended (i.e., no stoplogs). However, beaver activity on Sherlett Creek at the notched cofferdam continued to be an issue in fall 2024 restricting flows into Camp Lake as observed in previous years.

6.1 Sherlett Creek

Sherlett Creek documents the background surface water quality before the creek inflows into Camp Lake. Sherlett Creek is essential to the water quality within Camp Lake for several reasons including the continual supply of alkalinity for neutralizing pH within Camp Lake.

Field pH was near neutral and ranged from 6.63 to 7.32 during the 2024 open water season. This is consistent with field pH levels measured since 2017. Similar to 2017 and 2020 – 2023, pH levels in 2024 declined slightly when flows were reduced through the creek on August 20, 2024. Despite the lower flows in 2024 and over the previous three years, all field pH values have remained within the MWQSOG Tier III guideline range (6.5 to 9.0), except for a sample collected on October 31, 2023 (field pH 5.29). Alkalinity concentrations followed an increasing trend throughout the 2024 open water season, consistent with previous years, and measured the highest under ice cover (43 mg $CaCO_3$/L). Total alkalinity concentrations measured at SC-1 in 2024 have been the highest recorded since sampling started in 2017.

In 2024, TSS concentrations during low flow periods were comparable to concentrations measured during high flow periods, ranging from <1.0 mg/L to 4.6 mg/L. There has been no apparent relation between flow volume and TSS at SC-1 in any of the low flow years including 2024. All measured concentrations in 2024 were below the MWQSOG Tier II chronic objective of 11.5 mg/L. All turbidity results in 2024 were below 2.7 NTU, except for the winter event (4.9 NTU) and no seasonal increase during low flow was observed, unlike 2017 and 2021. In accordance with the requirements specified in the AMP, sulphate was added as a key water quality parameter for analysis in 2023. In 2024, sulphate concentrations increased in spring from winter concentrations before steadily declining and reaching a seasonal low of 2.2 mg/L (on August 20) before increasing again until the end of open water sampling (9.8 mg/L). This pattern is different than the one observed in 2021 and 2023. In both years, sulphate concentrations started low over winter and into spring and then steadily increased throughout the open water season.

Starting in 2021, the total concentrations of cadmium, copper, and zinc were compared to MWQSOG Tier II aquatic life criteria using an average hardness calculated for Sherlett Creek (using SC-1 hardness) instead of the average Cold Lake hardness (59.4 mg $CaCO_3$/L), which was used in previous years. The average SC-1 hardness in 2024 was calculated to be 34.4 mg $CaCO_3$/L, which is similar to the hardness calculated in 2022 (30.8 mg $CaCO_3$/L) and 2023 (33.7 mg $CaCO_3$/L).

Over the past eight years of monitoring (2017 – 2024), total iron concentrations at SC-1 have typically been below 0.4 mg/L. In 2024, total iron concentrations were below the MWQSOG Tier III guideline of 0.30 mg/L except for three occasions in late August and September (ranged from 0.37 mg/L to 0.48 mg/L), which is similar to 2022. In comparison, 2023 had eight sampling events with concentrations above guideline and 2021 had 13 events above Tier III guideline. Total aluminum concentrations have generally ranged between 0.02 mg/L and 0.10 mg/L over the last eight years of monitoring. All concentrations in 2024, with the exception of June 25 (0.12 mg/L) and August 20 (0.11 mg/L), were below the MWQSOG Tier III guideline (0.10 mg/L for pH ≥ 6.5 and 0.005 mg/L for pH < 6.5). Total aluminum concentrations between 2022 – 2024 have been very consistent.

Outside of low flow conditions, total cadmium concentrations have generally ranged between 0.00010 mg/L and 0.00050 mg/L over the last eight years of monitoring. Higher concentrations (up to 0.00092 mg/L) were measured during the period of higher flows in June. It has been noted historically that occasionally higher concentrations were measured in 2018 (on July 24 and September 11 and 13) and 2019 (July 31), which were not traceable to low flow conditions but rather to heavy rainfall events (DJRC, 2022). After concentrations peaked in June, total cadmium levels dropped and remained low (below 0.00036 mg/L) until they increased again on October 2, 2024. Therefore, it appears that concentrations were not affected by low flow conditions to the extent that they have been in previous years. Total cadmium concentrations in 2024 were generally above the MWQSOG Tier II chronic objective of 0.00012 mg/L and below the acute objective of 0.00071 mg/L, which is consistent with results since 2017. Higher concentrations of total copper have been noted during low flow periods or heavy rainfall events as observed for the other metals. In 2024, concentrations were highest during high flows in June, similar to cadmium, but did not appear to be affected by lower flows between late August and end of September (ranged from 0.0058 mg/L to 0.021 mg/L), which was also observed in 2021. Total copper concentrations have been generally above the MWQSOG Tier II chronic and acute objectives since 2017. Total zinc concentrations in 2024 were elevated during high precipitation in June and remained low and unaffected through the low flow period, similar to cadmium and copper. Concentrations were generally above the MWQSOG Tier II chronic and acute objectives (0.0497 mg/L) throughout the open water season, which is consistent with previous years.

Overall, key parameter concentrations within SC-1 have shown minor variations since monitoring began in 2017. In previous years, turbidity and metals have been found to increase with lower flows through the creek, however in 2024 a slightly different pattern was observed where concentrations increased in June with higher flows/precipitation and were less affected during low flow periods (August – October). Surface runoff influenced the creek's water quality during the high level of precipitation in June. Thereafter, precipitation was negligible, and surface runoff did not affect concentrations within the creek.

Five additional surface water sampling locations (SC-2 to SC-6) were sampled upstream of SC-1 to gather further water quality information in the reach of Sherlett Creek between SC-1 and Sherlett Lake on June 11 and October 2, 2024. In 2021, a detailed sampling event was conducted to investigate a potential sub-surface source of metal contamination that enters the creek downstream of SC-4. The source was identified as either

an inflow of metal contaminated groundwater or direct contact of the creek with the mineralized zone of the Sherridon deposit, which passes directly beneath the creek in this location.

In 2024, total concentrations of cadmium, copper, and zinc at stations SC-3, SC-2, and SC-1 were higher than at stations SC-4, SC-5, and SC-6 on both open water sampling dates. October generally had higher concentrations than June for total metals. Concentrations of total metals were consistent with 2021 and 2023 concentrations but higher than 2022. General water quality, sulphate, and total aluminum concentrations were very consistent with SC-1 concentrations.

6.2 Camp Lake

An important factor to consider in understanding water quality in Camp Lake and its potential effect on water quality in Cold Lake is the magnitude of inflow from Sherlett Creek into the South basin of Camp Lake. During the 2024 open water sampling season, a period of high flow was experienced in June but by the end of August flows in Sherlett Creek became greatly reduced until the end of open water sampling, reflecting low seasonal precipitation and the presence of beaver activity at the notched cofferdam restricting inflows from Sherlett Creek.

The results and conclusions are stated first for the winter sampling event completed on February 21, 2024, as concentrations in spring are dependent on concentrations in winter, and specifically, water quality in winter must be understood in order to assess the effectiveness of reclamation activities in reducing concentrations in spring.

In previous monitoring years, water sampling events completed under winter ice cover indicated that water quality substantially improved over winter compared to water quality measured in fall. Flows maintained under winter ice cover reduced metals, TSS, and turbidity, and improved pH, and therefore provided an indication of water quality that can be achieved in the absence of runoff related effects but in the presence of flows. The winter sampling events completed in March 2022 and February 2023 showed that there was not a substantial improvement of water quality under winter ice cover. The lack of reduction in metals, TSS, and turbidity was attributed to substantially reduced flows on Sherlett Creek and the lack of discharge over the north weir by the end of July during both years. In the absence of flows under ice cover, water quality over winter could not improve to the same extent as it did in previous monitoring years, where flow was maintained. The winter sampling event completed on February 21, 2024, indicated an improvement once again in water quality for many key parameters under ice cover. The difference from the past two years was that the stoplogs at the discharge weir were removed at the end of the 2023 open water sampling season and remained that way through 2024. The absence of stoplogs at the discharge weir allowed flow (albeit limited) to continue from October 2023 until the lake froze completely (no flow over the discharge weir was observed during the winter sampling event on February 21, 2024). Recovery of key parameter concentrations were observed for alkalinity, TSS, turbidity, iron, and aluminum. Concentrations of sulphate, alkalinity and total cadmium, copper and zinc did not recover to the same extent and measured values were similar to the winter sampling events in 2022 and 2023.

A comparison of the metals concentrations between winter and spring provides an indication of the overall contribution of spring runoff (or lack thereof) to metals concentrations in Camp Lake. Concentrations of all key metals in 2024 increased from winter to spring to a greater extent (specifically in the East basin) than previous years which is attributed to the negligible spring flushing in May due to the limited accumulation of

snow over winter 2023/2024. In previous years, the ice and snow melt has caused a spring flushing that correlates with a decrease in concentration for most key parameters, however in 2024, the lack of snow melt and therefore lack of flushing resulted in higher concentrations measured in May. The spike in precipitation experienced in June 2024, correlated to an increase in runoff which has implications for Camp Lake water quality, particularly in the East basin where adjacent mine waste was present until 2021 and is the least weathered area. The East basin measured the highest concentrations of total aluminum, cadmium, copper, and zinc compared to other basins in May and June 2024. The smallest effects of the increased precipitation were observed in the South basin and intermediate effects in the Central and North basins. Alkalinity concentrations decreased at all stations (minimally in the South basin) from winter to May which is attributed to the overall negligible snow melt and lack of flushing from Sherlett Creek. With a significant increase in precipitation through June, concentrations increased achieving seasonal highs on July 23, 2024 (ranging from 16 mg $CaCO_3$/L (EB-2) to 26 mg $CaCO_3$/L (SB-1)). The seasonal high measured in 2024 is greater than any other seasonal high measured since 2017 (concentrations reached 23 mg $CaCO_3$/L in 2020 and 22 mg $CaCO_3$/L in 2021). As flows through the creek became reduced in August, concentrations slowly declined until the end of sampling in October (final concentrations ranged from 10 mg $CaCO_3$/L to 12 mg $CaCO_3$/L). In comparison, final concentrations in October 2022 ranged from <1.0 mg $CaCO_3$/L to 3.8 mg $CaCO_3$/L and from 1.1 mg $CaCO_3$/L to 3.8 mg $CaCO_3$/L in October 2023.

The improvements in water quality from winter to spring were most notable in TSS, turbidity, sulphate, and total iron, where only a slight increase in concentrations was observed through June at select stations, while other stations showed no increase, or even decreased, in June from runoff sources. Outside of the East basin, total aluminum, cadmium, and zinc appeared to be less affected by June runoff than copper which measured higher at all basins than 2023 results but comparable to 2022 concentrations. Overall, the monitoring results indicate that the high levels of precipitation in June contributed to metals loading to the lake, which is consistent with previous years of high precipitation in spring. The increases that still occur with high levels of runoff are likely due to very small quantities of residual sources of mine waste that remain onsite (which are likely not practical to remove), loading from natural metal-bearing rock in vicinity of Camp Lake, and/or interactions between submerged tailings and the lake water.

Concentrations of metals, as well as TSS, turbidity, and sulphate, decreased from spring into mid-summer with flow from Sherlett Creek. The decreases in concentration were maintained until flow became reduced at the end of August, after which inflows into Camp Lake became minimal due to negligible precipitation and beaver activity at the notched cofferdam in fall.

In 2022 and 2023, the cause of the lower inflows into Camp Lake was both lower precipitation-based flows on Sherlett Creek, and water levels on Camp Lake which were artificially raised by the placement of stoplogs at the north discharge weir. Although flows were reduced, the higher lake level allowed sufficient volume for dilution of metals and concentrations remained low through late summer and fall. In previous years that have operated with no stoplogs at the discharge weir and have been dry (i.e., 2021), concentrations in late summer and fall have shown an increase as flows reduce. The same pattern was observed in 2024, however to a lesser extent and with less variation between basins. Concentrations of total cadmium and zinc were consistent with 2023 results and remained low through fall, however concentrations of TSS, turbidity, and iron reflected the biggest effect from low inflow volume and low water levels. A positive correlation between TSS, turbidity, and iron was also observed in 2021. The peak in total iron concentrations through fall of 2021 was a product of sequential peaks in dissolved and particulate iron (DJRC, 2022). Dissolved iron increased first

in all basins, then rapidly declined from September to the end of open water sampling. The particulate iron peak developed as dissolved iron concentrations were declining, indicating the peak was the product of a shift in partitioning rather than a continuing source to the lake (DJRC, 2022). In 2024, dissolved iron began increasing at the beginning of August until the last sampling event on October 17, after which all basins decreased slightly. Concentrations of particulate iron began increasing at the beginning of September and continued to increase until the end of open water sampling. Similar to 2021, it appears that the sequential peaks in dissolved and particulate iron fractions resulted in the total iron peak that is observed in late summer through fall 2024. Dissolved iron accounted for 60% (EB-2) to 76% (CB-1) of total iron in Camp Lake on average in 2021 and averaged 66% in the discharge (DJRC, 2022). In 2024, dissolved iron accounted for an average of 52% (EB-1) to 62% (NB-2) of total iron in Camp Lake and averaged 64% at the discharge. Iron in the dissolved fraction has greater potential to migrate and affect water quality versus the particulate fraction which will settle out of the water column.

The following is a summary of the key parameters when compared against the CLWQPO for the 2024 open water season.

- ***Field pH:*** Levels at all stations were above the CLWQPO minimum during all sampling events with the exception of the sampling event in May where all basins, except for the South basin, were below the minimum.
- ***TSS:*** Concentrations at all stations remained well below the CLWQPO (11.5 mg/L) for the entirety of the open water season.
- ***Turbidity:*** All turbidity levels measured during the 2024 open water season were above the CLWQPO, with the exception of July 10 and July 23 where all basins (except EB-1 and EB-2 on July 10) were below the CLQWPO.
- ***Sulphate:*** All Camp Lake sampling locations exceeded the CLWQPO guideline throughout the open water season.
- ***Iron:*** Concentrations were above the CLWQPO during all sampling events and for all stations in 2024.
- ***Aluminum:*** Concentrations were above the CLWQPO (ambient SC-1 + 25%) at all lake stations in May and October, and on an additional 2 – 4 varying dates at all basins. The East basin was above the CLWQPO during all sampling events except for February 21 and August 20, 2024.
- ***Cadmium:*** Concentrations at most lake stations, including the Camp Lake discharge, followed a fluctuating pattern of measuring above and below the CLWQPO. Most stations measured below by the end of August, however the East basin only measured below the CLWQPO on two occasions in fall.
- ***Copper:*** Similar to cadmium, concentrations of total copper fluctuated measuring above and below the CLWQPO throughout the open water season at all stations. The highest concentrations at all stations were measured in spring.
- ***Zinc:*** Concentrations at all Camp Lake stations, including the Camp Lake discharge, were above the CLWQPO in early spring and intermittently in summer. The East basin measured above the CLWQPO until early September before dropping below until the end of sampling.

Testing of acute toxicity (96-hour LC_{50}) to juvenile rainbow trout was conducted on three dates in 2024 (May 25, July 10, and September 4) at the Camp Lake Discharge. Results from May and September measured LC_{50} > 100% and the July sample measured 0% mortality. Therefore, based on the test results, it was determined that the Camp Lake discharge was not acutely toxic to fish at any time over the six-month open water monitoring period.

Overall, the 2024 monitoring year results indicate water quality in Camp Lake that is achieved after four consecutive years of low precipitation. Greater recovery of concentrations under ice cover was observed in 2024 compared to previous years. The 2024 monitoring year was the first year within the post-reclamation phase that the north discharge weir was operated as intended (i.e., no stoplogs). The residual effects of the installation of stoplogs at the north weir from 2022 – 2023 resulted in the recommendation to extend the post-reclamation phase for two years. Water quality results collected in upcoming sampling years will be important to observe the recovery of Camp Lake while the system is operating as intended. It is important to note that the Reclamation Project was intended and designed to prevent further degradation of the environment related to historic mining operations. The Project was not intended or designed to return the site to pre-mining conditions (AMP, 2022).

6.3 Cold Lake

A discharge over the north weir was observed at every sampling event in 2024, therefore Camp Lake water quality had the potential to affect water quality in Cold Lake throughout the open water season. Water quality results from Cold Lake throughout 2024 are representative of conditions while the system is operating as intended (i.e., no stoplogs at the discharge weir).

The following are conclusions for water quality monitoring within Cold Lake:

- The stations located within Cold Lake, including the mixing zone, all had pH values within the MWQSOG Tier III guideline throughout 2024. There were two instances of values below guideline, however they were determined to be anomalous and unrelated to the discharge.
- Alkalinity in Cold Lake was maintained at a consistently high level throughout the 2024 open water season.
- Sulphate concentrations in the mixing zone appeared to be influenced by discharge concentrations during the two sampling events in June, through the period of high precipitation. Cold Lake stations outside the mixing zone were not affected by the discharge.
- TSS within Cold Lake both in and outside the mixing zone were consistently low (i.e., lower than in Camp Lake and well below the Tier II chronic objective).
- Turbidity within the mixing zone stations was generally below 8 NTU and appeared to be affected by the mixing zone in June (due to high precipitation); however, turbidity outside the mixing zone did not appear to be affected by the discharge turbidity.
- Total aluminum concentrations in the Cold Lake mixing zone were highest in June and appeared to be affected by the discharge through the period of high precipitation. Thereafter, concentrations in the mixing zone remained low and unaffected. Cold Lake stations outside the mixing zone had concentrations consistent with the mixing zone. The lowest concentrations measured in Cold Lake, including the mixing zone, were during ice cover in February.
- Higher concentrations of total iron, cadmium, copper, and zinc were measured in the Cold Lake mixing zone in spring versus summer/fall, with the highest concentrations measured at CL-3 versus CL-7 and CL-8; therefore, the discharge appears to have affected the mixing zone, but only in spring.
- Total iron concentrations in Cold Lake outside the mixing zone remained consistent throughout the open water season and did not increase in spring as observed in previous years.
- Concentrations of total cadmium, copper, and zinc in Cold Lake outside of the mixing zone followed similar patterns with the lowest concentrations measured in February/May and in fall and the highest

concentrations measured in spring and summer. It is likely that the discharge had an effect on concentrations of cadmium, copper, and zinc in Cold Lake in June and July. The high discharge flow coupled with a high percentage of dissolved metals measured at the discharge resulted in low residence time in the mixing zone which did not allow the metals to settle out.

- Despite the higher-than-normal values of total cadmium and zinc, concentrations did not reach background conditions at Cold Lake stations even during the high flow period.
- Concentrations of total copper at some Cold Lake stations were above maximum background conditions in July and early August.

6.4 Groundwater

The monitoring wells located in the wetland area and to the southeast, in the vicinity of the historic East Mine workings, showed water quality parameters potentially indicative of exposure to naturally mineralized zones or potential mine waste, with the remaining wells to the north of the creek and southwest along the bedrock ridge showing freshwater indicators. Elevated total and dissolved metal concentrations were observed within the vicinity of the wetland area, which is consistent with the results from 2022 and 2023. With that said, the majority of the groundwater wells had elevated concentrations of key metals such as aluminum, cadmium, copper, iron, and zinc.

In the bedrock wells, higher concentrations were generally measured in the spring 2024 compared to fall, which is likely attributed to the high levels of precipitation experienced in June. In the overburden wells, higher concentrations of total metals were generally measured in the spring compared to the fall, however for routine water chemistry and dissolved metals, concentrations were generally consistent between seasons. When the 2024 results were compared against the results of the 2022 and 2023 groundwater monitoring events, higher concentrations of key metal and water quality parameters were generally observed in 2023 and 2024 compared to 2022. To understand the groundwater quality at the site, it will be important to complete groundwater sampling events in spring and fall to increase the available data set. As knowledge of the groundwater at the site becomes more comprehensive, further insight may be available to determine if groundwater could be the source of elevated metals concentrations observed in Sherlett Creek downstream of SC-4.

7.0 RECOMMENDATIONS

The environmental monitoring program is recommended to continue into 2025 (i.e., the fourth year of post-construction monitoring). Environmental monitoring should follow the requirements listed in the AMP for water quality monitoring. Water levels on Camp Lake should continue to be captured during the 2025 open water monitoring season as per the requirements of the AMP. An inspection of the notched cofferdam should be conducted at minimum every two weeks in conjunction with biweekly sampling to note any evidence of beaver activity or accumulation to ensure that beaver dam removal is conducted on a regular basis. No reduction in the sampling frequency is proposed for the 2025 monitoring year.

8.0 REFERENCES

1. American Meteorological Society. 2012. Glossary of Meteorology. Accessed on March 22, 2024: https://glossary.ametsoc.org/wiki/Water_year
2. D.J. Ramsey Consulting Ltd. 2022. Sherridon Orphaned Mine Reclamation Project 2021 Water Quality Monitoring Program Summary. Report Prepared for Tetra Tech Canada Inc., Winnipeg MB. September 30, 2022.
3. Environmental Canada Past Weather and Climate. 2024. Historical Data for Flin Flon Weather Station (ECCC - MSC Station Operator). Accessed on March 22, 2024: https://climate.weather.gc.ca/climate_data/daily_data_e.html?hlyRange=1994-02-01%7C2023-01-30&dlyRange=1996-09-01%7C2023-01-30&mlyRange=1996-09-01%7C2007-11-01&StationID=10213&Prov=MB&urlExtension=_e.html&searchType=stnProx&optLimit=yearRange&StartYear=1840&EndYear=2023&selRowPerPage=25&Line=2&txtRadius=200&optProxType=decimal&selCity=&selPark=&txtCentralLatDeg=&txtCentralLatMin=0&txtCentralLatSec=0&txtCentralLongDeg=&txtCentralLongMin=0&txtCentralLongSec=0&txtLatDecDeg=55.1254&txtLongDecDeg=-101.1114&timeframe=2&Day=31&Year=2022&Month=9#
4. KGS Group. 2024. OAM Subprogram – Sherridon Mine Site 2022 Water Quality Summary Report. Final Version. April 26, 2024.
5. Manitoba Water Stewardship. 2011. Manitoba Water Quality Standards, Objectives, and Guidelines. Water Science and Management Branch, Manitoba Water Stewardship. Manitoba Water Stewardship Report 2011-01. Published November 28, 2011.
6. SENES Consultants Ltd. 2008. Geochemical and Hydrogeological Assessment in Support of Sherridon Rehabilitation. Report prepared for Wardop Engineering Inc., Winnipeg, MB, by SENES Consultants Ltd., Richmond Hill, Ontario. December 2008.
7. Tetra Tech WEI. 2016. Sherridon Orphaned Mine Reclamation Project Aquatic Resources Baseline Study – 2008. Report prepared for Manitoba Mineral Resources, Mines Branch, Winnipeg, MB, by Tetra Tech WEI Inc., Winnipeg, MB. April 2016.
8. Tetra Tech. 2022. Sherridon Mine Orphan Mine Site Reclamation Project: Adaptive Management Plan. Prepared for Manitoba Environment, Climate and Parks, Environmental Programs and Remediation, Winnipeg, MB, by Tetra Tech Canada Inc., Winnipeg, MB. August 16, 2022.
9. Tetra Tech. 2022. Sherridon East Mine Workings Groundwater Investigations Update Memo No. 3. Prepared for Manitoba Conservation and Climate, Winnipeg, MB, by Tetra Tech Canada Inc., Winnipeg, MB. April 27, 2022.
10. Tetra Tech. 2024. CO 8 – Engineering Support – Camp Lake Water Levels Memo. Prepared for Manitoba Environment and Climate Change, Winnipeg, MB, by Tetra Tech Canada Inc., Winnipeg, MB. March 18, 2024.
11. Wetzel, R.G. 2001. Limnology, Lake and River Ecosystems, Third Edition. Academic Press, San Diego, California.

TABLES

TABLE 3
SURFACE WATER FIELD CHEMISTRY
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Time	Temperature (°C)	pH	EC (µS/cm)	DO		ORP (mV)	Turbidity (NTU)
							% L	mg/L		
Camp Lake										
SB-1	21-Feb-24		10:52	-0.1	6.57	538.4	49.1	6.85	78.7	7.42
	28-May-24		9:40	11.2	6.76	376.4	82.8	8.76	20.6	23.1
	11-Jun-24		14:35	14.7	7.25	205.1	77.2	7.38	1.3	5.33
	25-Jun-24		9:55	17.5	7.32	170.5	74.6	6.81	80.5	2.4
	10-Jul-24		9:25	23.1	7.26	149.1	68.3	5.59	80.1	1.22
	23-Jul-24		9:46	22.5	7.14	153.2	83.7	6.97	19.9	1.17
	7-Aug-24		9:30	19.1	7.12	182.3	63.4	5.66	25.4	5.33
	20-Aug-24	SW-124	9:25	20.6	7.03	207.6	90.0	7.57	97.6	3.34
	4-Sep-24		11:20	17.7	6.96	246.7	97.9	8.97	41.9	3.07
	17-Sep-24		9:30	16.5	7.02	253.7	81.9	7.71	46.5	4.32
	2-Oct-24		14:40	9.8	6.88	308.4	81.6	8.76	61.7	16.74
	17-Oct-24		9:35	6.0	6.66	316.3	97.7	11.45	116.6	18.71
SB-2	21-Feb-24		10:57	-0.1	6.67	549.9	68.3	9.55	77.8	8.59
	28-May-24		9:35	11.2	6.90	371.7	83.3	8.87	21.8	22.4
	11-Jun-24		14:30	14.8	7.30	201.8	77.9	7.45	2.2	5.76
	25-Jun-24	SW-112	9:50	17.4	7.31	182.8	73.8	6.66	77.9	2.77
	10-Jul-24		9:20	22.6	7.28	149.5	66.5	5.55	79.3	1.75
	23-Jul-24		9:35	22.5	7.07	149.8	82.4	6.88	15.6	1.31
	7-Aug-24		9:25	18.8	6.99	172.0	62.5	5.63	25.4	5.33
	20-Aug-24		9:20	20.6	6.98	200.8	88.5	7.22	104.2	3.40
	4-Sep-24		11:15	17.9	6.96	244.1	96.3	8.82	44.0	2.97
	17-Sep-24		9:28	16.4	7.06	249.5	79.6	7.48	49.6	4.52
	2-Oct-24		14:35	9.9	6.84	309.9	77.7	8.34	60.9	17.27
	17-Oct-24		9:30	6.0	6.91	316.0	101.6	11.36	114.1	18.47
CB-1	21-Feb-24		10:23	-0.1	6.62	552.0	53.1	7.33	78.9	5.88
	28-May-24		9:45	11.2	6.44	421.6	80.3	8.60	19.1	24.1
	11-Jun-24		14:40	14.1	7.16	250.4	77.8	7.37	2.8	8.62
	25-Jun-24		10:00	17.2	7.32	184.7	77.3	7.12	79.8	1.80
	10-Jul-24	SW-115	9:30	23.5	7.35	152.2	64.0	5.33	80.5	0.58
	23-Jul-24	SW-116	9:45	22.3	7.13	164.2	84.9	7.12	20.7	1.07
	7-Aug-24		9:35	18.9	7.21	191.5	60.7	5.43	21.5	2.83
	20-Aug-24		9:30	20.7	7.11	208.1	88.0	7.37	96.6	3.08
	4-Sep-24		11:25	17.6	6.91	250.9	97.5	8.96	40.9	3.62
	17-Sep-24		9:35	16.8	7.03	250.1	85.3	7.91	47.4	3.66
	2-Oct-24		14:45	9.7	6.96	310.2	81.3	8.8	59.3	17.35
	17-Oct-24		9:40	6.0	6.66	323.6	101.7	11.9	115.5	17.31
CB-2	21-Feb-24		10:30	-0.1	6.63	571.2	50.0	6.94	77.2	4.99
	28-May-24		9:50	11.4	6.13	434.3	77.7	8.22	19.3	22.6
	11-Jun-24		14:45	15.9	7.18	263.8	7.65	7.13	2.4	7.03
	25-Jun-24		10:05	17.4	7.29	205.1	78.2	7.05	79.5	2.11
	10-Jul-24		9:35	23.6	7.36	168.3	65.3	5.35	80.4	0.78
	23-Jul-24		9:50	22.1	7.10	180.2	84.9	7.18	19.9	1.23
	7-Aug-24	SW-121	9:40	18.9	7.24	188.8	64.4	5.77	20.6	2.71
	20-Aug-24		9:35	20.8	7.09	216.5	93.2	7.82	94.3	2.62
	4-Sep-24		11:30	17.8	6.96	257.4	98.6	9.03	39.9	3.11
	17-Sep-24		9:38	16.9	7.08	260.8	86.3	7.99	45.0	3.74
	2-Oct-24		14:50	9.4	6.83	311.1	83.2	9.02	59.4	16.29
	17-Oct-24		9:45	5.9	6.65	327.0	102	11.96	114.0	16.36
NB-1	21-Feb-24		10:13	-0.1	6.67	521.2	61.9	8.64	78.0	7.43
	28-May-24		10:15	11.6	5.11	495.5	79.7	8.38	36.2	8.78
	11-Jun-24	SW-108	15:25	15.0	6.95	340.5	77.4	7.39	6.3	10.91
	25-Jun-24		10:20	17.6	7.31	225.9	76.2	6.90	74.0	2.15
	10-Jul-24		10:00	23.6	7.27	170.1	65.4	5.40	69.2	1.51
	23-Jul-24		10:20	22.4	7.18	179.5	83.7	7.04	34.1	0.72
	7-Aug-24		10:00	19.0	7.40	207.4	62.4	5.57	14.1	1.88
	20-Aug-24		9:55	20.5	7.17	232.3	90.6	7.65	87.9	2.90
	4-Sep-24		11:50	17.7	7.07	281.6	98.9	9.09	63.1	2.91
	17-Sep-24		10:00	16.8	7.09	282.6	85.2	7.90	42.9	4.42
	2-Oct-24		15:10	9.5	7.04	339.6	81.2	8.78	52.9	13.58
	17-Oct-24	SW-136	10:25	5.8	6.71	351.2	102.2	12.04	109.3	14.29
NB-2	21-Feb-24		10:19	-0.1	6.60	563.9	62.4	8.58	79.5	6.72
	28-May-24		10:10	11.6	5.17	489.1	86.4	9.07	37.3	10.48
	11-Jun-24		15:00	15.3	6.83	328.4	77.3	7.30	8.3	10.85
	25-Jun-24		10:25	17.6	7.29	224.0	81.4	7.38	75.0	2.30
	10-Jul-24		9:55	23.3	7.38	165.1	66.3	5.38	70.4	1.31
	23-Jul-24		10:15	22.0	7.19	178.1	83.4	7.10	47.7	1.07
	7-Aug-24		9:55	18.5	7.48	207.6	17.5	6.14	13.4	2.19
	20-Aug-24		9:50	20.6	7.21	233.0	114.4	9.45	90.1	2.94
	4-Sep-24		11:45	17.8	7.22	278.9	100.3	9.24	82.4	2.75
	17-Sep-24	SW-128	9:55	16.6	7.22	281.3	84.5	7.84	42.0	4.33
	2-Oct-24	SW-132	15:05	9.2	7.04	337.3	79.6	8.65	52.3	13.49
	17-Oct-24		10:20	5.8	6.76	352.2	105.7	12.24	109.6	14.45
EB-1	21-Feb-24	SW-100	10:36	0.1	6.62	599.5	44.3	6.16	76.3	6.55
	28-May-24		9:55	11.5	5.19	481.3	81.0	8.55	25.5	5.44
	11-Jun-24		14:50	15.7	6.78	410.7	74.8	7.01	7.4	9.51
	25-Jun-24		10:10	17.9	7.18	297.2	77.4	6.93	80.1	3.04
	10-Jul-24		9:40	23.7	7.23	248.3	70.4	5.83	79.6	1.55
	23-Jul-24		10:00	21.9	7.04	253.2	87.0	7.41	28.0	2.18
	7-Aug-24		9:45	17.8	7.29	260.8	68.8	6.27	20.9	2.44
	20-Aug-24		9:40	20.7	7.11	279.1	87.1	7.40	93.4	3.76
	4-Sep-24		11:35	17.5	7.11	310.0	101.9	9.30	41.4	2.86
	17-Sep-24		9:44	16.4	7.13	300.7	87.1	8.14	46.7	3.96
	2-Oct-24		14:55	8.1	7.05	357.5	86.5	9.66	59.7	9.62
	17-Oct-24	SW-135	9:50	5.8	6.76	360.6	105.7	12.42	112.1	12.86
EB-2	21-Feb-24		10:44	-0.1	6.54	591.7	52.8	7.37	76.7	10.81
	28-May-24		10:05	11.6	4.87	489.8	83.2	8.77	33.5	2.43
	11-Jun-24		14:55	16.5	6.65	397.7	79.2	7.14	8.8	9.11
	25-Jun-24		10:15	18.2	7.15	324.0	78.5	7.02	80.3	3.26
	10-Jul-24		9:45	23.4	7.26	262.0	66.1	5.40	80.0	1.60
	23-Jul-24		10:05	22.6	7.10	261.6	84.8	7.12	20.9	2.01
	7-Aug-24		9:50	18.5	7.37	273.0	69.2	6.34	19.2	3.11
	20-Aug-24		9:45	20.8	7.11	287.2	85.3	7.21	91.3	3.71
	4-Sep-24	SW-127	11:40	17.9	7.23	318.5	103.8	9.46	41.4	3.16
	17-Sep-24		9:47	17.0	7.17	313.6	86.1	7.94	44.9	4.18
	2-Oct-24		15:00	8.3	7.25	360.0	84.9	9.44	54.8	10.92
	17-Oct-24		9:55	5.9	6.78	368.9	105	12.26	111.9	11.18
Camp Lake Discharge	21-Feb-24	SW-102	10:05	-0.1	6.91	401.1	98.1	13.73	73.6	11.27
	28-May-24		10:20	12.4	5.09	507.1	69.2	7.21	36.6	8.05
	11-Jun-24		15:30	14.6	6.87	358.1	77.3	7.35	6.2	12.0
	25-Jun-24		10:30	17.6	7.27	232.4	76.2	6.85	73.0	1.99
	10-Jul-24		10:05	23.7	7.37	65.5	71.6	5.85	75.0	1.23
	23-Jul-24		10:25	22.4	7.20	179.4	81.3	6.75	26.8	0.87
	7-Aug-24		10:05	18.5	7.40	213.0	65.1	5.91	17.3	1.78
	20-Aug-24		10:00	20.6	7.17	234.4	87.8	7.43	88.0	4.98
	4-Sep-24		11:55	17.6	7.18	278.6	93.4	8.52	53.7	2.86
	17-Sep-24	SW-129	10:08	15.9	7.07	283.5	86.2	8.15	41.3	5.37
	2-Oct-24		15:15	10.0	6.98	341.3	77.2	8.22	54.7	13.63
	17-Oct-24		10:30	5.9	6.65	354.5	94.6	11.10	107.7	17.23

TABLE 3
SURFACE WATER FIELD CHEMISTRY
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Time	Temperature (°C)	pH	EC (µS/cm)	DO		ORP (mV)	Turbidity (NTU)
							% L	mg/L		
Manitoba Water Quality Standards, Objectives, and Guidelines [1]										
Protection of Freshwater Aquatic Life										
Tier III Guideline				-	6.5 - 9.0	-	-	-	-	-
Camp Lake Water Quality Performance Objectives [2]										
Sampling Event Dates	21-Feb-24	-	-	-	6.5 - 9.0 [2a]	-	-	-	-	12.7 [2b, 2c]
	28-May-24	-	-	-		-	-	-	-	1.5 [2b, 2c]
	11-Jun-24	-	-	-		-	-	-	-	1.5 [2b, 2c]
	25-Jun-24	-	-	-		-	-	-	-	0.7 [2b, 2c]
	10-Jul-24	-	-	-		-	-	-	-	0.9 [2b, 2c]
	23-Jul-24	-	-	-		-	-	-	-	1.7 [2b, 2c]
	7-Aug-24	-	-	-		-	-	-	-	1.9 [2b, 2c]
	20-Aug-24	-	-	-		-	-	-	-	1.7 [2b, 2c]
	4-Sep-24	-	-	-		-	-	-	-	1.5 [2b, 2c]
	17-Sep-24	-	-	-		-	-	-	-	2.5 [2b, 2c]
	2-Oct-24	-	-	-		-	-	-	-	2.3 [2b, 2c]
	17-Oct-24	-	-	-		-	-	-	-	2.7 [2b, 2c]

Notes:
"-" = no value EC = Electrical Conductivity ORP = Oxygen Reduction Potential DO = Dissolved Oxygen NTU = Nephelometric Turbidity Units

1. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.
2. Camp Lake Water Quality Performance Objectives (CLWQPO). Final Adaptive Management Plan - Sherridon Orphaned Mine Site Reclamation Project, August 16, 2022.
   a. The pH objective is the MWQSOG Tier III guideline. It has been determined to be reasonable based on pre-construction predictions and monitoring record.
   b. Turbidity objectives calculated as ambient SC-1 + 25%. Ambient SC-1 refers to the concentration measured at Sherlett Creek station SC-1 within the previous 7 days.
   c. The 25% allowance in the turbidity calculation is to account for sampling and analytical variation as per DJRC (2022).

- Values outside of MWQSOG range (pH).
BOLD - Values outside of CLWQPO range (pH) or above specified maximum value (turbidity).

Sherlett Creek										
SC-1	21-Feb-24		11:23	-0.1	7.17	223.5	69.2	9.62	75.3	10.15
	28-May-24	SW-105	10:55	11.8	6.70	97.3	85.0	8.85	27.3	1.21
	11-Jun-24		17:25	14.3	7.32	89.6	82.8	7.99	-4.5	1.22
	25-Jun-24		16:50	16.2	7.30	94.8	80.6	7.29	63.9	0.57
	10-Jul-24		10:30	24.0	7.29	84.9	73	5.90	63.6	0.72
	23-Jul-24		10:50	22.5	7.08	83.1	72.9	6.06	55.0	1.36
	7-Aug-24		10:30	17.0	7.22	93.4	56.8	5.28	5.8	1.54
	20-Aug-24		10:35	21.5	6.63	120.9	57.2	4.76	82.1	1.36
	4-Sep-24	SW-126	12:35	17.1	6.78	122.5	50.5	4.71	35.8	1.18
	17-Sep-24		10:30	14.3	6.88	127.2	47.2	4.62	30.5	2.00
	2-Oct-24		16:20	8.3	7.13	150.1	75.2	8.35	53.5	1.84
	17-Oct-24		10:55	6.0	6.82	145.6	98.1	11.39	102.7	2.12
SC-2	11-Jun-24		17:16	14.3	7.22	89.8	77.2	7.48	-1.1	3.03
	2-Oct-24		15:55	7.7	7.06	152.3	73.4	8.31	56.5	1.78
SC-3	11-Jun-24		17:05	14.2	7.19	89.8	78.5	7.69	-1.7	1.27
	2-Oct-24		15:50	7.7	7.07	152.5	75.4	8.82	54.8	2.66
SC-4	11-Jun-24		17:00	14.3	7.08	52.6	81.3	7.80	-5.1	0.94
	2-Oct-24		15:45	8.7	7.13	137.3	72.6	8.05	46.6	2.66
SC-5	11-Jun-24		17:15	13.9	7.01	94.4	65	6.31	-1.5	1.03
	2-Oct-24	SW-133	15:55	9.7	7.18	124.8	71.2	7.62	53.6	1.89
SC-6	11-Jun-24		17:20	14.3	7.29	83.7	75.4	7.33	-3.6	1.18
	2-Oct-24		16:10	11.8	7.40	121.9	79.3	8.11	51.1	1.85
Manitoba Water Quality Standards, Objectives, and Guidelines [1]										
Protection of Freshwater Aquatic Life										
Tier III Guideline				-	6.5 - 9.0	-	-	-	-	-

Notes:
"-" = no value EC = Electrical Conductivity ORP = Oxygen Reduction Potential
DO = Dissolved Oxygen NTU = Nephelometric Turbidity Units

1. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.

- Values outside of MWQSOG range (pH).

TABLE 3
SURFACE WATER FIELD CHEMISTRY
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Time	Temperature (°C)	pH	EC (µS/cm)	DO		ORP (mV)	Turbidity (NTU)
							% L	mg/L		
Cold Lake										
CL-2 sfc	21-Feb-24	SW-101	9:46	0.0	7.42	186.1	88.1	12.35	67.0	1.37
	28-May-24		9:05	9.8	7.33	121.2	81.8	9.01	18.4	2.10
	11-Jun-24		14:00	15.1	7.56	148.0	74.8	7.15	1.6	3.32
	25-Jun-24		9:20	17.4	7.41	149.4	78.4	7.53	77.9	2.77
	10-Jul-24	SW-114	8:55	22.7	7.52	142.1	68.0	5.64	94.6	0.82
	23-Jul-24		9:05	21.3	7.26	136.1	116.3	9.89	29.9	1.12
	7-Aug-24		8:55	19.4	7.49	137.3	61.4	5.47	25.3	1.78
	20-Aug-24		8:50	20.6	7.33	146.4	65.2	5.61	101.1	1.13
	4-Sep-24		10:45	18.3	7.20	159.5	92.5	8.40	39.9	1.60
	17-Sep-24		8:56	17.0	7.42	152.7	83.0	7.68	79.9	1.41
	2-Oct-24		14:20	13.2	7.52	167.9	70.4	7.03	48.3	3.68
	17-Oct-24		9:15	8.5	7.06	163.1	79.3	8.73	118.7	3.27
CL-2 btm	21-Feb-24		9:43	2.2	7.23	197.2	63.0	8.25	65.9	2.39
	28-May-24		9:05	9.3	7.26	123.1	79.8	8.91	18.4	2.50
	11-Jun-24	SW-107	14:05	12.1	7.44	142.9	81.4	8.24	0.4	2.90
	25-Jun-24		9:25	12.9	7.23	143.2	71.1	7.15	83.6	3.17
	10-Jul-24		8:55	20.3	7.41	140.7	72.3	6.23	94.3	0.94
	23-Jul-24		9:05	18.3	6.91	135.2	81.9	7.34	30.8	1.36
	7-Aug-24		8:55	17.7	6.93	135.8	35.6	3.24	25.5	3.08
	20-Aug-24		8:50	20.7	7.28	146.3	88.0	7.46	100.5	1.06
	4-Sep-24		10:45	18.0	7.25	159.3	87.4	7.89	39.5	1.53
	17-Sep-24		9:00	16.6	7.44	152.7	80.6	7.35	47.5	1.58
	2-Oct-24		14:25	13.0	7.49	119.3	74.8	7.43	49.7	3.45
	17-Oct-24		9:10	8.6	7.06	159.0	90.1	9.92	118.1	3.23
CL-3 sfc	21-Feb-24		9:28	-0.1	7.49	174.2	92.9	13.03	46.3	0.42
	28-May-24		8:50	9.9	7.25	132.5	84.6	9.28	22.8	1.89
	11-Jun-24		13:40	14.6	7.32	228.4	81.1	7.79	6.4	6.99
	25-Jun-24		9:00	17.5	7.27	205.2	80.0	7.27	103.7	3.16
	10-Jul-24		8:38	22.9	7.41	151.5	74.5	6.09	102.3	1.35
	23-Jul-24		8:50	21.8	7.33	141.3	105.1	8.99	41.3	1.42
	7-Aug-24		8:40	19.6	7.46	140.1	69.6	6.15	32.6	2.36
	20-Aug-24	SW-123	8:35	20.3	7.13	162.1	70.8	6.15	106.3	2.64
	4-Sep-24		10:30	18.2	7.22	164.0	98.0	8.60	41.5	1.62
	17-Sep-24	SW-130	8:38	17.5	7.42	153.3	78.6	7.17	52.1	1.99
	2-Oct-24		14:00	12.5	7.55	168.3	73.4	7.34	50.2	3.17
	17-Oct-24		8:55	8.6	7.00	163.1	80.7	8.86	124.5	3.08
CL-3 btm	21-Feb-24		9:25	0.1	7.51	181.0	82.4	11.52	77.8	8.59
	28-May-24	SW-104	8:50	9.7	7.30	132.4	81.0	8.91	19.8	2.29
	11-Jun-24		13:45	14.4	7.21	282.2	86.0	8.22	7.7	8.79
	25-Jun-24		9:15	17.2	7.29	202.2	77.1	7.10	103.4	3.29
	10-Jul-24		8:38	22.5	7.47	136.6	84.0	6.82	101.2	1.44
	23-Jul-24	SW-117	8:40	21.6	7.33	137.2	102.4	8.51	40.0	1.42
	7-Aug-24		8:40	19.3	7.49	140.0	63.7	5.73	32.2	2.23
	20-Aug-24		8:35	20.3	7.12	162.6	89.2	7.59	106.0	2.52
	4-Sep-24		10:30	17.7	7.23	164.3	96.1	8.60	42.0	1.50
	17-Sep-24		8:40	16.9	7.43	151.8	80.2	7.36	51.3	2.18
	2-Oct-24		14:05	12.4	7.55	168.2	80.4	8.10	50.5	3.19
	17-Oct-24		8:50	8.5	6.99	163.3	91.8	10.09	124.2	2.90
CL-4 sfc	21-Feb-24		9:08	0.0	7.06	200.8	91.1	12.75	44.0	0.61
	28-May-24	SW-103	8:35	9.7	7.23	121.8	79.2	8.67	35.2	1.86
	11-Jun-24		13:20	14.3	7.38	163.0	90.1	7.57	5.9	3.19
	25-Jun-24		8:40	17.2	7.28	157.0	73.5	6.76	104.6	2.03
	10-Jul-24		8:25	22.5	7.48	123.7	71.7	5.95	109.9	1.46
	23-Jul-24		8:28	21.7	7.26	130.5	108.8	9.23	56.7	1.14
	7-Aug-24		8:25	19.6	7.39	135.4	60.2	5.36	38.5	1.53
	20-Aug-24		8:20	20.1	6.97	140.3	75.4	6.58	117.3	1.11
	4-Sep-24		10:15	18.4	7.18	157.0	91.6	8.31	43.2	1.89
	17-Sep-24		8:27	17.2	7.40	146.3	83.1	7.65	55.6	1.82
	2-Oct-24	SW-131	13:40	13.2	7.57	163.0	80.1	8.13	51.0	3.21
	17-Oct-24		8:35	8.5	7.05	158.4	80.5	8.88	123.3	2.83
CL-4 btm	21-Feb-24		9:03	2.4	7.28	187.4	60.5	7.53	55.3	5.1
	28-May-24		8:35	9.0	7.20	111.5	75.8	8.49	32.5	3.84
	11-Jun-24		13:25	12.0	7.30	154.1	81.2	8.24	5.7	4.07
	25-Jun-24		8:45	12.5	7.17	139.0	68.0	6.89	103.5	6.20
	10-Jul-24		8:25	15.3	6.95	135.6	57.7	5.49	103.3	3.42
	23-Jul-24	SW-118	8:20	15.8	6.74	134.2	69.8	6.45	53.2	3.41
	7-Aug-24		8:25	19.7	7.40	135.2	61.5	5.46	38.3	1.89
	20-Aug-24		8:20	16.8	6.57	149.9	46.6	4.18	118.7	12.87
	4-Sep-24		10:15	18.0	7.21	155.5	89.8	8.09	43.1	1.98
	17-Sep-24		8:30	16.5	7.34	149.8	78.6	7.24	54.9	2.59
	2-Oct-24		13:45	12.9	7.54	163.4	73.4	7.33	51.2	2.96
	17-Oct-24		8:30	8.5	7.03	158.6	91.3	10.04	123.4	2.88
CL-5 sfc	21-Feb-24		8:56	-0.1	7.44	183.0	97.5	13.66	13.2	1.50
	28-May-24		8:25	9.8	7.14	115.0	80.0	8.82	43.3	2.65
	11-Jun-24		13:10	14.0	7.36	121.4	72.0	7.04	5.7	1.81
	25-Jun-24		8:30	16.7	7.33	139.7	75.0	6.97	108.9	2.14
	10-Jul-24		8:15	21.9	7.45	120.9	67.7	5.69	113.3	1.54
	23-Jul-24		8:10	21.6	7.27	128.8	109.2	9.32	60.6	1.30
	7-Aug-24		8:20	19.7	7.28	130.8	64.1	5.68	42.8	1.64
	20-Aug-24		8:10	20.1	6.94	135.7	74.8	6.51	128.8	1.35
	4-Sep-24	SW-125	10:10	18.4	7.22	152.8	94.3	8.54	43.0	3.63
	17-Sep-24		8:15	17.1	7.34	144.1	84.2	7.76	61.4	2.35
	2-Oct-24		13:30	12.8	7.63	159.5	72.2	7.28	52.0	3.07
	17-Oct-24		8:25	8.5	7.24	154.9	88.1	9.89	121.5	3.95
CL-5 btm	21-Feb-24		8:52	0.6	7.41	186.6	80.2	11.03	25.9	0.80
	28-May-24		8:25	9.6	7.14	113.7	84.8	9.36	40.5	2.45
	11-Jun-24		13:15	12.1	7.25	136.8	78.1	8.03	5.6	2.63
	25-Jun-24		8:35	12.7	7.16	138.9	66.5	6.74	107.1	5.98
	10-Jul-24	SW-113	8:15	22.2	7.46	120.8	69.6	5.81	112.2	1.83
	23-Jul-24		8:10	21.4	7.27	128.6	99.7	8.32	60.1	1.52
	7-Aug-24		8:20	19.2	7.33	131.3	63.4	5.65	41.9	1.76
	20-Aug-24		8:10	18.8	6.72	144.2	67.9	6.04	127.7	2.92
	4-Sep-24		10:10	17.7	7.24	152.7	98.6	8.87	43.9	1.89
	17-Sep-24		8:20	16.4	7.38	144.3	83.8	7.70	58.5	2.31
	2-Oct-24		13:35	12.6	7.61	160.4	75.7	7.62	51.8	2.94
	17-Oct-24		8:20	8.3	7.17	154.7	96.9	10.61	121.5	2.94
CL-6 sfc	21-Feb-24		8:38	2.5	7.92	214.6	91.6	11.96	4.2	1.60
	28-May-24		8:15	9.9	6.68	142.5	88.0	9.65	70.2	1.70
	11-Jun-24		13:00	14.0	6.74	109.1	75.9	7.42	15.0	1.25
	25-Jun-24		8:20	15.6	7.29	127.1	69.8	6.65	116.6	3.04
	10-Jul-24		8:05	21.7	7.54	119.4	78.3	6.87	114.4	2.28
	23-Jul-24		8:08	21.7	7.27	120.0	110.6	9.37	71.6	2.07
	7-Aug-24	SW-119	8:10	19.6	7.13	126.7	64.6	5.71	44.8	2.09
	20-Aug-24		8:05	19.8	6.60	126.7	81.3	7.08	142.5	1.44
	4-Sep-24		10:00	18.2	7.26	144.0	99.2	8.96	41.6	2.00
	17-Sep-24		8:10	16.8	7.40	133.4	85.0	7.83	66.1	1.73
	2-Oct-24		13:20	13.0	8.36	164.0	80.8	8.08	52.9	3.46
	17-Oct-24		8:10	8.6	8.21	249.0	100.0	10.89	119.2	2.13
CL-6 btm	21-Feb-24		8:42	0.0	7.62	189.9	98.7	13.84	-15.4	0.63
	28-May-24		8:20	9.3	6.74	109.7	83.4	9.26	55.6	2.24
	11-Jun-24		13:05	11.8	6.97	115.7	87.0	8.92	7.3	1.34
	25-Jun-24	SW-110	8:25	13.8	7.23	121.9	81.2	7.91	111.7	2.55
	10-Jul-24		8:05	18.5	7.43	114.7	78.4	6.93	113.1	1.84
	23-Jul-24		8:00	21.3	7.31	120.0	96.4	8.21	68.4	1.79
	7-Aug-24		8:10	18.3	7.13	122.2	63.0	5.67	-17.0	2.70
	20-Aug-24		8:05	19.1	6.08	140.6	89.2	7.68	156.7	3.86
	4-Sep-24		10:00	17.3	7.32	145.4	88.4	8.15	42.6	2.04
	17-Sep-24		8:05	15.7	7.40	135.7	82.8	7.77	64.8	1.92
	2-Oct-24		13:25	12.4	7.79	149.4	83.2	8.41	52.9	2.97
	17-Oct-24		8:15	8.3	7.78	150.5	97.2	10.77	119.8	1.73

TABLE 3
SURFACE WATER FIELD CHEMISTRY
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Time	Temperature (°C)	pH	EC (µS/cm)	DO		ORP (mV)	Turbidity (NTU)
							% L	mg/L		
CL-7 sfc	21-Feb-24		9:36	-0.1	7.49	174.5	94.1	13.26	51.8	1.02
	28-May-24		8:55	9.9	7.26	129.5	88.1	9.64	21.7	2.06
	11-Jun-24		13:50	14.7	7.42	177.3	74.9	7.2	5.2	3.73
	25-Jun-24	SW-111	9:10	16.9	7.44	161.0	77.1	7.18	93.9	2.59
	10-Jul-24		8:45	22.6	7.50	137.9	81.2	668	99.9	1.16
	23-Jul-24		8:50	21.9	7.25	149.8	108.0	9.16	36.9	1.07
	7-Aug-24		8:45	19.7	7.50	138.1	63.1	5.54	30.9	2.21
	20-Aug-24		8:45	20.3	7.21	150.1	78.2	6.77	104.1	1.20
	4-Sep-24		10:35	18.3	7.21	162.3	92.3	8.40	41.3	1.74
	17-Sep-24		8:47	17.4	7.45	148.6	78.1	7.18	49.9	1.70
	2-Oct-24		14:10	12.6	7.55	167.2	73.1	7.34	19.5	3.18
	17-Oct-24		9:05	8.6	7.01	163.5	81.4	8.96	123.6	2.81
CL-7 btm	21-Feb-24		9:33	0.1	7.50	182.0	89.1	12.45	37.9	0.81
	28-May-24		8:55	9.8	7.33	129.3	81.6	8.96	19.3	2.20
	11-Jun-24		13:55	14.7	7.44	176.4	82.0	7.94	4.9	4.28
	25-Jun-24		9:15	17.1	7.43	165.0	78.0	7.18	93.2	2.74
	10-Jul-24		8:45	22.6	7.49	139.3	68.0	5.61	98.1	1.06
	23-Jul-24		8:50	21.9	7.28	148.5	99.7	8.36	35.7	1.11
	7-Aug-24	SW-120	8:45	19.1	7.54	139.7	59.1	5.30	29.3	2.38
	20-Aug-24		8:45	20.3	7.19	1149.2	71.6	6.21	103.8	2.24
	4-Sep-24		10:35	17.8	7.29	161.6	84.1	7.57	40.2	1.98
	17-Sep-24		8:50	17.1	7.51	149.0	72.2	6.62	50.7	1.78
	2-Oct-24		14:15	12.4	7.52	167.7	80.8	8.10	49.8	3.17
	17-Oct-24		9:00	8.5	7.01	164.0	90.4	9.94	122.0	3.01
CL-8 sfc	21-Feb-24		9:18	-0.1	7.46	137.8	94.3	13.18	53.4	0.4
	28-May-24		8:45	9.9	7.21	137.0	82.2	9.02	30.0	2.1
	11-Jun-24	SW-106	13:30	14.3	7.57	173.3	74.8	7.29	6.2	4.21
	25-Jun-24		8:50	17.1	7.29	165.4	75.4	6.98	100.4	2.09
	10-Jul-24		8:30	21.9	6.24	136.5	74.3	5.55	101.3	1.45
	23-Jul-24		8:30	21.8	7.14	151.0	110.7	9.45	42.9	1.01
	7-Aug-24		8:35	19.7	7.41	137.7	59.5	5.30	35.7	2.04
	20-Aug-24		8:25	20.2	7.08	142.9	76.7	6.66	112.3	1.47
	4-Sep-24		10:25	18.2	7.25	165.0	93.1	8.46	42.0	1.88
	17-Sep-24		8:34	17.5	7.42	149.4	74.9	7.37	52.6	1.90
	2-Oct-24		13:50	12.4	7.51	167.3	85.2	8.32	50.4	3.42
	17-Oct-24	SW-134	8:45	8.4	7.00	164.5	77.8	8.63	124.8	2.88
CL-8 btm	21-Feb-24		9:15	0.2	7.47	182.0	93.7	13.05	37.7	0.40
	28-May-24		8:45	9.8	7.23	137.3	89.3	9.18	25.2	2.57
	11-Jun-24		13:35	14.5	7.30	216.1	81.9	7.79	7.1	6.25
	25-Jun-24		8:55	16.8	7.28	193.0	75.6	7.01	102.5	3.82
	10-Jul-24		8:30	22.0	7.46	133.6	67.0	5.61	102.1	1.45
	23-Jul-24		8:30	21.3	7.27	141.3	104.3	8.77	45.5	1.14
	7-Aug-24		8:35	19.4	7.42	137.5	62.5	5.59	34.6	1.96
	20-Aug-24	SW-122	8:25	20.2	7.13	145.5	73.6	6.28	108.6	1.77
	4-Sep-24		10:25	17.9	7.27	159.0	92.1	8.20	41.8	1.65
	17-Sep-24		8:37	16.8	7.42	149.4	83.4	7.64	52.5	2.38
	2-Oct-24		13:55	12.4	7.55	168.2	71	7.20	50.5	3.19
	17-Oct-24		8:40	8.5	6.99	163.3	81.4	10.06	124.1	2.64
Manitoba Water Quality Standards, Objectives, and Guidelines [1]										
Protection of Freshwater Aquatic Life										
Tier III Guideline				-	6.5 - 9.0	-	-	-	-	-

Notes:
"-" = no value
EC = Electrical Conductivity
ORP = Oxygen Reduction Potential
DO = Dissolved Oxygen
NTU = Nephelometric Turbidity Units

1. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.

- Values outside of MWQSOG range (pH).

TABLE 4
GENERAL WATER QUALITY
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameters [1]												
			pH (units)	Turbidity (NTU)	Alkalinity PP as $CaCO_3$	Alkalinity Total as $CaCO_3$	Bicarbonate (HCO_3)	Carbonate (CO_3)	Hydroxide (OH)	Sulphate (SO_4)	Hardness as $CaCO_3$	Total Hardness as $CaCO_3$	Total Organic Carbon as C	Dissolved Organic Carbon as C	TSS
Camp Lake															
SB-1	21-Feb-24		5.68	9.0	<1.0	9.9	12	<1.0	<1.0	240	280	254	8.6	8.4 [4]	<1.0
	28-May-24		6.24	23	<1.0	6.9	8.5	<1.0	<1.0	190	170	157	6.9	6.5	2.4
	11-Jun-24		6.53	6.3	<1.0	17	21	<1.0	<1.0	67	78	83.2	9.6	9.2	2.1
	25-Jun-24		7.34	3.6	<1.0	22	27	<1.0	<1.0	44	60	66.8	11	11	1.7
	10-Jul-24		6.63	1.5	<1.0	23	28	<1.0	<1.0	40	62	55.6	12	13	1.3
	23-Jul-24		6.55	1.2	<1.0	26	31	<1.0	<1.0	40	63	56.5	12	11	<1.0
	7-Aug-24		6.40	3.8	<1.0	23	28	<1.0	<1.0	52	75	66.0	12	11	<1.0
	20-Aug-24		6.42	3.6	<1.0	22	27	<1.0	<1.0	60	80	77.0	12	11	1.4
		SW-124	6.25	3.9	<1.0	21	26	<1.0	<1.0	60	80	78.8	11	12	1.3
	RPD		*3%*	*8%*	*NC*	*5%*	*4%*	*NC*	*NC*	*0%*	*0%*	*2%*	*9%*	*9%*	*7%*
	4-Sep-24		6.24	7.7	<1.0	16	20	<1.0	<1.0	74	91	87.4	11	12	1.6
	17-Sep-24		5.90	6.9	<1.0	14	17	<1.0	<1.0	81	88	98.1	11	11	2.1
	2-Oct-24		5.82	19	<1.0	8.9	11	<1.0	<1.0	93	110	103	9.3 [8]	9.8 [4]	4.9
	17-Oct-24		5.92	23 [7]	<1.0	11	14	<1.0	<1.0	100	110	101	11	10	3.8
SB-2	21-Feb-24		5.70	10 [6]	<1.0	10	12	<1.0	<1.0	250	300	239	8	8.3	<1.0 [6]
	28-May-24		6.19	22	<1.0	8.3	10	<1.0	<1.0	160	160	152	7.5	6.8	3.1
	11-Jun-24		6.57	5.0	<1.0	21	25	<1.0	<1.0	61	72	75.8	9.7	9.6	1.2
	25-Jun-24		6.36	3.6	<1.0	22	26	<1.0	<1.0	60	69	64.9	12	11	2
		SW-112	6.35	3.5	<1.0	22	27	<1.0	<1.0	54	69	62.3	9.7	11	<0.99
	RPD		*0%*	*3%*	*NC*	*0%*	*4%*	*NC*	*NC*	*11%*	*0%*	*4%*	*21%*	*0%*	*NC*
	10-Jul-24		6.55	1.7	<1.0	24	30	<1.0	<1.0	37	62	55.4	12	11	1.1
	23-Jul-24		6.51	1.4	<1.0	25	30	<1.0	<1.0	38	63	55.3	12	12	<1.0
	7-Aug-24		6.55	5.7	<1.0	21	25	<1.0	<1.0	49	70	58.9	12	11	1.5
	20-Aug-24		6.20	4.3	<1.0	22	27	<1.0	<1.0	55	76	73.1	12	12	<1.0
	4-Sep-24		6.15	7.5	<1.0	16	20	<1.0	<1.0	73	89	84.0	10	11	1.1
	17-Sep-24		6.02	7.8	<1.0	14	17	<1.0	<1.0	80	97	88.7	12	12	1.9
	2-Oct-24		5.77	24	<1.0	7.5	9.1	<1.0	<1.0	97	120	106	11	10 [4]	6.7
	17-Oct-24		5.93	22 [7]	<1.0	10	13	<1.0	<1.0	100	110	114	11	10	4.1
CB-1	21-Feb-24		5.72	7.4	<1.0	11	13	<1.0	<1.0	240	270	235	8.7	8.7	1.1
	28-May-24		5.88	23	<1.0	2.7	3.3	<1.0	<1.0	200	200	207	5.8	5.4	3.3
	11-Jun-24		6.43	7.2	<1.0	15	18	<1.0	<1.0	86	100	105	8.9	9	2.6
	25-Jun-24		6.34	3.2	<1.0	22	26	<1.0	<1.0	54	69	71.1	12	11	2.4
	10-Jul-24		6.57	1.6	<1.0	25	30	<1.0	<1.0	39	63	58.2	12	12	1.3
		SW-115	6.57	1.4	<1.0	24	30	<1.0	<1.0	39	64	58.3	11	11	<1.0
	RPD		*0%*	*13%*	*NC*	*4%*	*0%*	*NC*	*NC*	*0%*	*2%*	*0%*	*9%*	*9%*	*NC*
	23-Jul-24		6.49	1.3	<1.0	25	30	<1.0	<1.0	45	68	61.0	12	11	<1.0
		SW-116	6.46	1.2	<1.0	25	30	<1.0	<1.0	46	69	61.2	11	11	<1.0
	RPD		*0%*	*8%*	*NC*	*0%*	*0%*	*NC*	*NC*	*2%*	*1%*	*0%*	*9%*	*0%*	*NC*
	7-Aug-24		6.48	4.3	<1.0	21	26	<1.0	<1.0	56	80	68.5	11	11	<1.0
	20-Aug-24		6.18	3.5	<1.0	22	26	<1.0	<1.0	58	82	76.5	12	12	2.7
	4-Sep-24		6.16	7.4	<1.0	16	19	<1.0	<1.0	77	93	88.4	11	12	2.0
	17-Sep-24		5.92	6.9	<1.0	16	20	<1.0	<1.0	81	88	96.8	12	12	<1.0
	2-Oct-24		5.85	20	<1.0	9.7	12	<1.0	<1.0	94	120	99.9	11	10 [4]	5
	17-Oct-24		6.00	21 [7]	<1.0	10	13	<1.0	<1.0	100	120	119	11	10	4.5
CB-2	21-Feb-24		5.70	7.3	<1.0	10	13	<1.0	<1.0	250	290	260	9.0	9.3	1.5
	28-May-24		5.69	21	<1.0	1.9	2.3	<1.0	<1.0	230	210	210	5.9	5.7	1.9
	11-Jun-24		6.46	7.9	<1.0	14	17	<1.0	<1.0	100	99	109	8.4	8.1	2.9
	25-Jun-24		7.32	3.9	<1.0	17	21	<1.0	<1.0	61	74	80.4	10	9.8	2.5
	10-Jul-24		6.53	1.5	<1.0	23	28	<1.0	<1.0	46	72	63.9	11	11	1.0
	23-Jul-24		6.43	1.5	*<1.0*	23	28	<1.0	<1.0	54	75	73.2	11	11	<1.0
	7-Aug-24		6.51	3.5	<1.0	22	27	<1.0	<1.0	55	78	66.2	13	12	1.0
		SW-121	6.72	4.7	<1.0	22	27	<1.0	<1.0	55	79	71.3	11	11	<1.0
	RPD		*3%*	*29%*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*1%*	*7%*	*17%*	*9%*	*NC*
	20-Aug-24		6.16	3.1	<1.0	21	26	<1.0	<1.0	64	84	81.3	12	10	1.3
	4-Sep-24		6.22	7.4	<1.0	15	18	<1.0	<1.0	81	95	91.7	11	12	1.7
	17-Sep-24		5.88	7.0	<1.0	13	16	<1.0	<1.0	85	94	104	10	12	2.2
	2-Oct-24		6.20	19	<1.0	11	13	<1.0	<1.0	96	110	105	9.2	9.9 [4]	6.1
	17-Oct-24		6.29	21 [7]	<1.0	11	13	<1.0	<1.0	100	120	119	10	11	4.7
NB-1	21-Feb-24		5.64	8.4	<1.0	8.1	9.8	<1.0	<1.0	260	310	277	9.0	9.7	<1.0
	28-May-24		4.95	8.3	<1.0	<1.0	<1.0	<1.0	<1.0	250	230	252	4.8	4.6	<1.0
	11-Jun-24		6.33	11	<1.0	8.8	11	<1.0	<1.0	140	140	143	7.4	7.0	2.7
		SW-108	6.32	10	<1.0	8.4	10	<1.0	<1.0	150	140	141	7.3	6.6	<1.0
	RPD		*0%*	*10%*	*NC*	*5%*	*10%*	*NC*	*NC*	*7%*	*0%*	*1%*	*1%*	*6%*	*NC*
	25-Jun-24		7.20	4.5	<1.0	15	18	<1.0	<1.0	70	79	92.4	9.2	8.8	3.1
	10-Jul-24		6.38	1.4	<1.0	22	27	<1.0	<1.0	46	70	62.8	11	11	1.4
	23-Jul-24		6.45	1.2	<1.0	24	29	<1.0	<1.0	53	75	72.6	12	11	<1.0
	7-Aug-24		6.51	2.6	<1.0	21	25	<1.0	<1.0	65	84	84.7	11	11	<1.0
	20-Aug-24		6.17	3.1	<1.0	20	25	<1.0	<1.0	71	91	86.7	11	11	2.1
	4-Sep-24		6.21	6.0	<1.0	15	18	<1.0	<1.0	94	100	102	11	11	2.5
	17-Sep-24		5.88	6.7 [7]	<1.0	13	16	<1.0	<1.0	100	110	104	11	11	1.1
	2-Oct-24		6.21	14	<1.0	11	14	<1.0	<1.0	110	130	118	9.1	11 [4]	1.7
	17-Oct-24		5.90	18 [7]	<1.0	10	12	<1.0	<1.0	120	130	122	10	8.9	2.9
		SW-136	5.88	17 [7]	<1.0	10	12	<1.0	<1.0	120	130	122	11	9.0	2.5
	RPD		*0%*	*6%*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*0%*	*0%*	*10%*	*1%*	*15%*
NB-2	21-Feb-24		5.64	7.7	<1.0	11	13	<1.0	<1.0	240	290	251	7.8	8.5	<1.0
	28-May-24		5.08	11	<1.0	<1.0	<1.0	<1.0	<1.0	250	240	231	4.8	4.6	<1.0
	11-Jun-24		6.33	10	<1.0	9.2	11	<1.0	<1.0	130	130	142	7.7	7.1	3.7
	25-Jun-24		6.44	4.0	<1.0	18	22	<1.0	<1.0	73	83	81.7	9.7	10	2.7
	10-Jul-24		6.51	1.4	<1.0	22	27	<1.0	<1.0	43	67	62.3	11	11	1.3
	23-Jul-24		6.46	1.1	<1.0	24	29	<1.0	<1.0	53	71	65.8	11	11	1.0
	7-Aug-24		6.55	3.2	<1.0	22	27	<1.0	<1.0	64	86	72.2	10	12	<1.0
	20-Aug-24		6.23	3.1	<1.0	21	26	<1.0	<1.0	72	90	84.4	11	11	1.3
	4-Sep-24		6.23	5.9	<1.0	16	20	<1.0	<1.0	88	100	98.5	11	10	<1.0
	17-Sep-24		5.90	7.2 [7]	<1.0	13	16	<1.0	<1.0	95	120	105	11	10	<1.0
		SW-128	6.01	6.6 [7]	<1.0	13	16	<1.0	<1.0	97	110	124	10	10	<1.0
	RPD		*2%*	*9%*	*NC*	*0%*	*0%*	*NC*	*NC*	*2%*	*9%*	*17%*	*10%*	*0%*	*NC*
	2-Oct-24		6.19	16	<1.0	11	13	<1.0	<1.0	110	120	113	9.2	11 [4]	3.7
		SW-132	5.84	14	<1.0	10	13	<1.0	<1.0	110	130	118	9.4	10 [4]	2.4
	RPD		*6%*	*9%*	*NC*	*10%*	*0%*	*NC*	*NC*	*0%*	*8%*	*4%*	*2%*	*9%*	*43%*
	17-Oct-24		5.99	18 [7]	<1.0	11	13	<1.0	<1.0	120	130	119	10	9.2	3.9
EB-1	21-Feb-24		5.71	8.2	<1.0	11	14	<1.0	<1.0	270	320	289	9.0	9.0	<1.0
		SW-100	5.70	8.1	<1.0	11	13	<1.0	<1.0	270	320	281	8.2	8.1 [4]	<0.97
	RPD		*0%*	*1%*	*NC*	*0%*	*7%*	*NC*	*NC*	*0%*	*0%*	*3%*	*9%*	*11%*	*NC*
	28-May-24		4.84	4.4	<1.0	<1.0	<1.0	<1.0	<1.0	240	230	245	4.1	4.1	<1.0
	11-Jun-24		6.13	7.4	<1.0	3.9	4.8	<1.0	<1.0	180	170	166	5.7	5.2	3.4
	25-Jun-24		7.11	6.2	<1.0	9.7	12	<1.0	<1.0	100	110	126	9.8	8.5	3.8
	10-Jul-24		6.46	2.2	<1.0	15	18	<1.0	<1.0	97	110	98.9	10	8.7	1.7
	23-Jul-24		6.36	2.3	<1.0	17	20	<1.0	<1.0	80	100	96.6	10	9.7	<1.0
	7-Aug-24		6.44	3.4	<1.0	16	20	<1.0	<1.0	93	120	107	10	9.8	<1.0
	20-Aug-24		6.10	3.4	<1.0	15	18	<1.0	<1.0	92	110	112	10	10	1.5
	4-Sep-24		6.25	6.1	<1.0	14	17	<1.0	<1.0	110	120	112	10	11	1.1
	17-Sep-24		5.79	6.5	<1.0	12	15	<1.0	<1.0	110	110	125	9.5	11	1.4
	2-Oct-24		5.84	12	<1.0	9.8	12	<1.0	<1.0	120	140	126	9.0	9.5 [4]	3.3
	17-Oct-24		5.96	26 [7]	<1.0	11	14	<1.0	<1.0	120 [8]	130	123	9.7	10	9.3
		SW-135	5.95	18 [7]	<1.0	11	14	<1.0	<1.0	120	130	133	10	8.5	5.9
	RPD		*0%*	*36%*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*0%*	*8%*	*3%*	*16%*	*45%*
EB-2	21-Feb-24		5.60	12 [6]	<1.0	6.9	8.5	<1.0	<1.0	280	340	301	9.3	9.9	1.0 [6]
	28-May-24		4.76	2.7	<1.0	<1.0	<1.0	<1.0	<1.0	250	240	231	3.7	3.7	<1.0
	11-Jun-24		6.19	8.4	<1.0	5.1	6.2	<1.0	<1.0	170	160	180	6.6	5.6	2.7
	25-Jun-24		7.11	7.0	<1.0	8.3	10	<1.0	<1.0	120	120	118	8.3	7.7	3.2
	10-Jul-24		6.41	2.0	<1.0	14	17	<1.0	<1.0	96	110	103	9.0	8.5 [6]	1.0
	23-Jul-24		6.39	2.0	<1.0	16	19	<1.0	<1.0	84	98	99.3	9.7	9.1	<1.0
	7-Aug-24		6.60	3.6	<1.0	14	17	<1.0	<1.0	97	120	99.4	10	10	1.6
	20-Aug-24		6.08	3.5	<1.0	14	17	<1.0	<1.0	94	120	103	9.8	11	1.3
	4-Sep-24		6.20	6.4	<1.0	14	17	<1.0	<1.0	120	130	118	9.7	11	<1.0
			6.21	5.9	<1.0	14	17	<1.0	<1.0	120	130	119	9.7	11	2.3
	RPD		*0%*	*8%*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*0%*	*1%*	*0%*	*0%*	*NC*
	17-Sep-24		5.86	6.4	<1.0	13	16	<1.0	<1.0	110	130	122	10	9.9	1.2
	2-Oct-24		5.84	11	<1.0	9.8	12	<1.0	<1.0	120	140	123	8.6	9.1 [4]	4.5
	17-Oct-24		5.94	13 [7]	<1.0	12	15	<1.0	<1.0	130	140	125	9.9	10	3.3
Camp Lake Discharge	21-Feb-24		5.62	13 [6]	<1.0	7.6	9.3	<1.0	<1.0	270	310	260	8.8	9.7	1.1 [6]
		SW-102	5.59	13	<1.0	7.4	9	<1.0	<1.0	270	300	267	9.1	9.0 [4]	1.6
	RPD		*1%*	*0%*	*NC*	*3%*	*3%*	*NC*	*NC*	*0%*	*3%*	*3%*	*3%*	*7%*	*37%*
	28-May-24		4.91	7.6	<1.0	<1.0	<1.0	<1.0	<1.0	250	250	227	4.9	4.7	<1.0
	11-Jun-24		6.28	11	<1.0	7.5	9.2	<1.0	<1.0	150	150	154	6.9	6.7	2.5
	25-Jun-24		7.20	4.7	<1.0	15	19	<1.0	<1.0	75	87	79.4	10	10	2.6
	10-Jul-24		6.63	1.2	<1.0	22	27	<1.0	<1.0	50	72	62.9	10	10	<1.0
	23-Jul-24		6.45	1.3	<1.0	23	29	<1.0	<1.0	53	75	63.5	11	11	<1.0
	7-Aug-24		6.53	3.4	<1.0	22	27	<1.0	<1.0	67	88	84.7	12	12	<0.97
	20-Aug-24		6.23	4.3	<1.0	21	26	<1.0	<1.0	72	91	89.0	11	12	<1.0
	4-Sep-24		6.22	6.2	<1.0	16	19	<1.0	<1.0	93	100	103	10	12	1.5
	17-Sep-24		5.86	7.8 [7]	<1.0	13	16	<1.0	<1.0	97	110	108	10	11	2.7
		SW-129	6.15	7.3 [7]	<1.0	14	17	<1.0	<1.0	98	100	118	10	11	2.2
	RPD		*5%*	*7%*	*NC*	*7%*	*6%*	*NC*	*NC*	*1%*	*10%*	*9%*	*0%*	*0%*	*20%*
	2-Oct-24		6.19	16	<1.0	11	13	<1.0	<1.0	110	120	113	11	10 [4]	3.4
	17-Oct-24		5.95	21 [7]	<1.0	11	14	<1.0	<1.0	120	130	121	10	10	6.0
Laboratory Detection Limits			-	*0.10 - 0.20*	*1.0*	*1.0*	*1.0*	*1.0*	*1.0*	*1.0 - 2.0*	*0.50*	*0.50*	*0.50*	*0.50*	*0.96 - 1.1*
Manitoba Water Quality Standards, Objectives, and Guidelines [2]															
Protection of Aquatic Life and Wildlife															
Tier II Objective - Chronic			-	-	-	-	-	-	-	-	-	-	-	-	*11.5 [2a]*
Tier II Objective - Acute			-	-	-	-	-	-	-	-	-	-	-	-	*31.5 [2a]*
Protection of Freshwater Aquatic Life															
Tier III Guideline			*6.5 - 9.0*	-	-	-	-	-	-	*500*	-	-	-	-	-
Camp Lake Water Quality Performance Objectives [3]															
Sampling Event Dates	21-Feb-24		*6.5 - 9.0*	*6.1 [3b]*	-	-	-	-	-	*14.6 [3c]*	-	-	-	-	*11.5 [3d]*
	28-May-24			*1.4 [3b]*	-	-	-	-	-	*16.4 [3c]*	-	-	-	-	
	11-Jun-24			*2.3 [3b]*	-	-	-	-	-	*15.3 [3c]*	-	-	-	-	
	25-Jun-24			*2.3 [3b]*	-	-	-	-	-	*18.5 [3c]*	-	-	-	-	
	10-Jul-24			*1.9 [3b]*	-	-	-	-	-	*13.1 [3c]*	-	-	-	-	
	23-Jul-24			*2.0 [3b]*	-	-	-	-	-	*12.1 [3c]*	-	-	-	-	
	7-Aug-24			*1.9 [3b]*	-	-	-	-	-	*11.8 [3c]*	-	-	-	-	
	20-Aug-24			*1.5 [3b]*	-	-	-	-	-	*11.5 [3c]*	-	-	-	-	
	4-Sep-24			*3.1 [3b]*	-	-	-	-	-	*12.1 [3c]*	-	-	-	-	
	17-Sep-24			*2.9 [3b]*	-	-	-	-	-	*15.9 [3c]*	-	-	-	-	
	2-Oct-24			*3.1 [3b]*	-	-	-	-	-	*21.0 [3c]*	-	-	-	-	
	17-Oct-24			*3.4 [3b]*	-	-	-	-	-	*17.5 [3c]*	-	-	-	-	

Notes:
"-" = No Data NC = Not Calculated RPD = Relative Percent Difference NTU = Nephelometric Turbidity Units TSS = Total Suspended Solids

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.
   a. The MWQSOG Tier II objectives for TSS state an allowable 5 mg/L increase over background for chronic exposures and 25 mg/L increase over background for acute exposures. In the case of Sherlett Creek, analysis of all available TSS data for 2017-2023 indicates the maximum observed concentration is 6.5 mg/L, for a Tier II chronic exposure objective of 11.5 mg/L and a Tier II acute exposure objective of 31.5 mg/L. This objective has also been applied to Camp Lake and Cold Lake.
3. Camp Lake Water Quality Performance Objectives (CLWQPO). Final Adaptive Management Plan - Sherridon Orphaned Mine Site Reclamation Project, August 16, 2022.
   a. The pH objective is the MWQSOG Tier III guideline. It has been determined to be reasonable based on pre-construction predictions and monitoring record.
   b. The turbidity objectives are calculated as ambient SC-1 + 25%. The 25% allowance in the turbidity calculation is to account for sampling and analytical variation as per DJRC, 2022.
   c. The sulphate objectives are calculated as ambient SC-1 + 7 + 25%. Calculation is based on pre-construction prediction (from SENES 2008) plus 25% allowance for sampling and analytical variation as per DJRC (2022).
   d. The TSS objective is the MWQSOG Tier II chronic objective. It has been determined to be reasonable based on monitoring record.
   e. Ambient SC-1 refers to the concentration measured at Sherlett Creek station SC-1 within the previous 7 days.
4. Sample filtered and preserved past method specified hold time
5. Sample was originally processed within hold time. Data quality required investigation. Re-analysis was completed past recommended hold time.
6. Matrix spike exceeds acceptance limits due to matrix interference.
7. Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
8. Detection limits raised due to matrix interference.

- Values above Tier II Chronic MWQSOG value.
- Values above Tier II Acute MWQSOG value.
- Values above Tier III MWQSOG guideline.

BOLD - Values outside of CLWQPO range (pH) or above specified maximum value (turbidity, sulphate, and TSS).

TABLE 4
GENERAL WATER QUALITY
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameters [1]												
			pH (units)	Turbidity (NTU)	Alkalinity PP as $CaCO_3$	Alkalinity Total as $CaCO_3$	Bicarbonate (HCO_3)	Carbonate (CO_3)	Hydroxide (OH)	Sulphate (SO_4)	Hardness as $CaCO_3$	Total Hardness as $CaCO_3$	Total Organic Carbon as C	Dissolved Organic Carbon as C	TSS
Sherlett Creek															
SC-1	21-Feb-24		6.10	4.9	<1.0	43	53	<1.0	<1.0	4.7	45	39.7	14	14	<1.0
	28-May-24		6.72	1.1	<1.0	28	35	<1.0	<1.0	6.1	33	32.1	11	11	<0.99
		SW-105	6.70	3.0	<1.0	28	34	<1.0	<1.0	5.4	33	33.6	11	11	1.5
	RPD		*0%*	*93%*	*NC*	*0%*	*3%*	*NC*	*NC*	*12%*	*0%*	*5%*	*0%*	*0%*	*NC*
	11-Jun-24		6.67	1.8	<1.0	27	33	<1.0	<1.0	5.2	30	30.9	11	12	2.7
	25-Jun-24		7.39	1.8	<1.0	27	33	<1.0	<1.0	7.8	31	33.4	13	13	4.6
	10-Jul-24		6.66	1.5	<1.0	28	34	<1.0	<1.0	3.5	34	30.9	14	13	2.6
	23-Jul-24		6.42	1.6	<1.0	28	35	<1.0	<1.0	2.7	33	30.1	13	13	<1.0
	7-Aug-24		6.65	1.5	<1.0	29	36	<1.0	<1.0	2.4	35	29.8	14	13	<1.0
	20-Aug-24		6.41	1.2	<1.0	31	37	<1.0	<1.0	2.2	36	35.3	14	13	<0.97
	4-Sep-24		6.42	2.5	<1.0	34	42	<1.0	<1.0	2.7	36	35.0	13	14	<1.0
		SW-126	6.45	2.2	<1.0	34	42	<1.0	<1.0	2.7	36	36.1	13	14	<1.0
	RPD		*0.5%*	*13%*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*0%*	*3%*	*0%*	*0%*	*NC*
	17-Sep-24		6.25	2.3	<1.0	32	39	<1.0	<1.0	5.7	36	37	13	14	1.5
	2-Oct-24		6.42	2.5	<1.0	30	36	<1.0	<1.0	9.8	39	36.5	14	13 [4]	2.3
	17-Oct-24		6.24	2.7	<1.0	40	49	<1.0	<1.0	7.0	37	34.1	14	14	2.1
SC-2	11-Jun-24		6.64	1.2	<1.0	26	32	<1.0	<1.0	7.6	31	34.7	10	11	3.3
	2-Oct-24		6.45	2.3	<1.0	30	37	<1.0	<1.0	10	41	34.7	13	12 [4]	2.5
SC-3	11-Jun-24		6.64	1.8	<1.0	27	33	<1.0	<1.0	7.9	31	32.3	11	12	<1.0
	2-Oct-24		6.42	2.4	<1.0	28	35	<1.0	<1.0	18	46	42.1	12 [8]	13 [4]	1.7
SC-4	11-Jun-24		6.69	1.3	<1.0	27	33	<1.0	<1.0	2.7	29	29.6	11	12	1.8
	2-Oct-24		6.52	2.2	<1.0	30	37	<1.0	<1.0	2.2	34	31.5	12	13 [4]	1.6
SC-5	11-Jun-24		6.71	0.4	<1.0	27	33	<1.0	<1.0	6.8	32	35.1	12	12	<1.0
	2-Oct-24		6.51	2.3	<1.0	31	38	<1.0	<1.0	1.7	35	29.9	13	14 [4]	1.6
		SW-133	6.10	2.9	<1.0	29	36	<1.0	<1.0	1.6	35	30.3	12	13 [4]	1.7
	RPD		*7%*	*23%*	*NC*	*7%*	*5%*	*NC*	*NC*	*6%*	*0%*	*1%*	*8%*	*7%*	*6%*
SC-6	11-Jun-24		6.75	1.3	<1.0	27	32	<1.0	<1.0	2.8	29	31.9	11	13	1.7
		SW-109	6.76	1.1	<1.0	27	33	<1.0	<1.0	2.9	29	31.1	11	12	2.0
	RPD		*0%*	*17%*	*NC*	*0%*	*3%*	*NC*	*NC*	*4%*	*0%*	*3%*	*0%*	*8%*	*16%*
	2-Oct-24		6.55	2.0	<1.0	31	38	<1.0	<1.0	1.1	34	30.4	13	13 [4]	1.8
Laboratory Detection Limits			-	*0.10 - 0.20*	*1.0*	*1.0*	*1.0*	*1.0*	*1.0*	*1.0*	*0.50*	*0.50*	*0.50*	*0.50*	*0.96 - 1.1*
Manitoba Water Quality Standards, Objectives, and Guidelines [2]															
Protection of Aquatic Life and Wildlife															
Tier II Objective - Chronic			-	-	-	-	-	-	-	-	-	-	-	-	*11.5* [2a]
Tier II Objective - Acute			-	-	-	-	-	-	-	-	-	-	-	-	*31.5* [2a]
Protection of Freshwater Aquatic Life															
Tier III Guideline			*6.5 - 9.0*	-	-	-	-	-	-	*500*	-	-	-	-	-

Notes:
"-" = No Data NC = Not Calculated RPD = Relative Percent Difference NTU = Nephelometric Turbidity Units TSS = Total Suspended Solids

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.
   a. The MWQSOG Tier II objectives for TSS state an allowable 5 mg/L increase over background for chronic exposures and 25 mg/L increase over background for acute exposures. In the case of Sherlett Creek, analysis of all available TSS data for 2017-2023 indicates the maximum observed concentration is 6.5 mg/L, for a Tier II chronic exposure objective of 11.5 mg/L and a Tier II acute exposure objective of 31.5 mg/L. This objective has also been applied to Camp Lake and Cold Lake.
4. Sample filtered and preserved past method specified hold time
5. Sample was originally processed within hold time. Data quality required investigation. Re-analysis was completed past recommended hold time.
6. Matrix spike exceeds acceptance limits due to matrix interference.
7. Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
8. Detection limits raised due to matrix interference.

- Values above Tier II Chronic MWQSOG value.
- Values above Tier II Acute MWQSOG value.
- Values above Tier III MWQSOG guideline.

Sample ID	Date	Field Duplicate Sample ID	Parameters [1]												
			pH (units)	Turbidity (NTU)	Alkalinity PP as $CaCO_3$	Alkalinity Total as $CaCO_3$	Bicarbonate (HCO_3)	Carbonate (CO_3)	Hydroxide (OH)	Sulphate (SO_4)	Hardness as $CaCO_3$	Total Hardness as $CaCO_3$	Total Organic Carbon as C	Dissolved Organic Carbon as C	TSS
Cold Lake															
CL-2 sfc	21-Feb-24		6.06	1.6	<1.0	41	50	<1.0	<1.0	14	50	43.5	12	12 [4]	1.5
		SW-101	6.09	2.3	<1.0	42	51	<1.0	<1.0	16	50	44.8	12	12 [4]	1.3
	RPD		*0%*	*36%*	*NC*	*2%*	*2%*	*NC*	*NC*	*13%*	*0%*	*3%*	*0%*	*0%*	*14%*
	28-May-24		6.74	2.9	<1.0	26	32	<1.0	<1.0	23	49	48.9	11	9.4	1.1
	11-Jun-24		6.66	3.5	<1.0	25	30	<1.0	<1.0	37	53	53.1	9.9	10	1.1
	25-Jun-24		7.40	2.4	<1.0	24	30	<1.0	<1.0	36	53	49.1	12	10	<1.0
	10-Jul-24		6.59	1.3	<1.0	25	30	<1.0	<1.0	36	59	51.9	11	13	1.1
		SW-114	6.63	1.6	<1.0	25	30	<1.0	<1.0	37	59	53.4	11	11	<1.0
	RPD		*1%*	*21%*	*NC*	*0%*	*0%*	*NC*	*NC*	*3%*	*0%*	*3%*	*0%*	*17%*	*NC*
	23-Jul-24		6.51	0.38	<1.0	26	31	<1.0	<1.0	27	56	47.5	12	11	<1.0
	7-Aug-24		6.58	2.4	<1.0	27	33	<1.0	<1.0	29	57	47.4	12	9.9	<1.0
	20-Aug-24		6.34	1.3	<1.0	27	32	<1.0	<1.0	27	53	52.9	11	11	<1.0
	4-Sep-24		6.39	2.5	<1.0	32	39	<1.0	<1.0	29	53	51.8	11	10	1.1
	17-Sep-24		6.21	2.5	<1.0	28	34	<1.0	<1.0	27	49	57.2	9.3	11	<1.0
	2-Oct-24		6.45	3.2	<1.0	29	36	<1.0	<1.0	25	52	48.3	11	11 [4]	<1.0
	17-Oct-24		6.29	4.4	<1.0	32	39	<1.0	<1.0	26	53	46.5	11	11	<1.0
CL-2 btm	21-Feb-24		6.01	3.1	<1.0	33	41	<1.0	<1.0	29	59	54.2	9.6	9.6 [4]	<1.0
	28-May-24		6.66	2.8	<1.0	27	33	<1.0	<1.0	24	48	48.3	10	9.8	1.1
	11-Jun-24		6.65	3.5	<1.0	25	31	<1.0	<1.0	33	49	54.0	10	9.7	1.3
		SW-107	6.52	3.4	<1.0	25	31	<1.0	<1.0	32	51	51.8	9.7	9.5	1.9
	RPD		*2%*	*3%*	*NC*	*0%*	*0%*	*NC*	*NC*	*3%*	*4%*	*4%*	*3%*	*2%*	*38%*
	25-Jun-24		7.41	4.4	<1.0	25	30	<1.0	<1.0	31	49	46.2	11	11	1.7
	10-Jul-24		6.64	1.5	<1.0	25	30	<1.0	<1.0	34	58	52.9	11	11	<1.0
	23-Jul-24		6.47	1.7	<1.0	26	31	<1.0	<1.0	27	55	48.5	11	10	<1.0
	7-Aug-24		6.77	4.3	<1.0	25	31	<1.0	<1.0	27	54	50.3	10	11	1.0
	20-Aug-24		6.23	1.4	<1.0	28	34	<1.0	<1.0	28	50	49.9	10	10	<1.0
	4-Sep-24		6.38	2.4	<1.0	30	37	<1.0	<1.0	29	54	52.2	10	10	1.2
	17-Sep-24		6.06	2.9	<1.0	28	34	<1.0	<1.0	27	49	57.0	10	12	<1.0
	2-Oct-24		6.50	3.5	<1.0	30	36	<1.0	<1.0	25	53	50.2	9.8	11 [4]	<1.0
	17-Oct-24		6.22	4.1	<1.0	32	39	<1.0	<1.0	27	52	46.9	11	11	<0.99
CL-3 sfc	21-Feb-24		6.08	1.7	<1.0	41	50	<1.0	<1.0	14	51	42.1	11	11	<1.0
	28-May-24		6.73	2.4	<1.0	29	36	<1.0	<1.0	28	52	47.2	9.8	9.6	<1.0
	11-Jun-24		6.50	7.0	<1.0	18	22	<1.0	<1.0	72	85	89.8	9.3	8.7	2.5
	25-Jun-24		7.28	4.5	<1.0	17	21	<1.0	<1.0	61	73	79.5	11	10	1.5
	10-Jul-24		6.64	1.3	<1.0	24	29	<1.0	<1.0	41	63	55.4	11	12	<1.0
	23-Jul-24		6.44	1.3	<1.0	25	30	<1.0	<1.0	36	64	55.7	11	10	<1.0
	7-Aug-24		6.58	1.9	<1.0	30	37	<1.0	<1.0	30	57	48.4	12	11	<1.0
	20-Aug-24		6.23	2.9	<1.0	25	31	<1.0	<1.0	37	60	57.6	10	10	1.5
		SW-123	6.24	2.3	<1.0	26	32	<1.0	<1.0	36	60	59.5	11	11	1.0
	RPD		*0%*	*23%*	*NC*	*4%*	*3%*	*NC*	*NC*	*3%*	*0%*	*3%*	*10%*	*10%*	*40%*
	4-Sep-24		6.38	3.0	<1.0	28	35	<1.0	<1.0	31	56	52.3	10	11	1.6
	17-Sep-24		6.05	2.6	<1.0	29	35	<1.0	<1.0	30	52	51.8	11	11	<1.0
		SW-130	6.20	2.4	<1.0	28	35	<1.0	<1.0	29	54	61.1	10	11	<1.0
	RPD		*2%*	*8%*	*NC*	*4%*	*0%*	*NC*	*NC*	*3%*	*4%*	*16%*	*10%*	*0%*	*NC*
	2-Oct-24		6.50	2.9	<1.0	28	35	<1.0	<1.0	26	55	48.2	9.9 [6]	11 [4]	<1.0
	17-Oct-24		6.22	3.6	<1.0	33	40	<1.0	<1.0	26	51	48.3	10	11	<0.99
CL-3 btm	21-Feb-24		6.09	0.26	<1.0	41	50	<1.0	<1.0	14	51	43.5	10	12	<1.0
	28-May-24		6.66	2.6	<1.0	27	33	<1.0	<1.0	33	54	51.6	10	9.7	1.2
		SW-104	6.70	2.8	<1.0	26	32	<1.0	<1.0	33	53	53.0	9.7	9.8	1.4
	RPD		*1%*	*7%*	*NC*	*4%*	*3%*	*NC*	*NC*	*0%*	*2%*	*3%*	*3%*	*1%*	*15%*
	11-Jun-24		6.43	9.7	<1.0	13	16	<1.0	<1.0	110	110	115	8.1	8.2	2.7
	25-Jun-24		6.35	4.2	<1.0	20	25	<1.0	<1.0	63	73	70.9	12	10	2.1
	10-Jul-24		6.68	1.6	<1.0	25	30	<1.0	<1.0	33	56	48.8	12	12	1.0
	23-Jul-24		6.44	1.3	<1.0	23	28	<1.0	<1.0	31	56	50.0	11	11	<1.0
		SW-117	6.52	1.1	<1.0	26	32	<1.0	<1.0	31	58	50.5	11	11	<0.99
	RPD		*1%*	*17%*	*NC*	*12%*	*13%*	*NC*	*NC*	*0%*	*4%*	*1%*	*0%*	*0%*	*NC*
	7-Aug-24		6.58	2.3	<1.0	27	33	<1.0	<1.0	30	57	54.1	11	12	<1.0
	20-Aug-24		6.25	2.0	<1.0	25	31	<1.0	<1.0	37	61	57.3	11	11	<0.99
	4-Sep-24		6.38	3.1	<1.0	32	39	<1.0	<1.0	32	56	53.9	10	10	1.7
	17-Sep-24		6.20	2.6	<1.0	31	37	<1.0	<1.0	28	54	50.9	9.6	11	<1.0
	2-Oct-24		6.48	3.1	<1.0	29	36	<1.0	<1.0	26	54	48.0	10	11 [4]	<0.97
	17-Oct-24		6.23	3.4	<1.0	33	41	<1.0	<1.0	26	51	46.9	12	11	<1.0
CL-4 sfc	21-Feb-24		6.09	0.13	<1.0	43	53	<1.0	<1.0	14	50	46.6	12	11 [4]	<1.0
	28-May-24		6.75	2.4	<1.0	26	32	<1.0	<1.0	26	48	50.0	10	9.7	<1.0
		SW-103	6.71	3.2	<1.0	27	32	<1.0	<1.0	24	47	48.1	10	9.4	1.7
	RPD		*1%*	*29%*	*NC*	*4%*	*0%*	*NC*	*NC*	*8%*	*2%*	*4%*	*0%*	*3%*	*NC*
	11-Jun-24		6.56	3.1	<1.0	24	29	<1.0	<1.0	44	59	60.6	9.9	9.6	<0.96
	25-Jun-24		7.40	2.7	<1.0	23	29	<1.0	<1.0	41	55	53.8	12	11	1.1
	10-Jul-24		6.61	1.5	<1.0	26	32	<1.0	<1.0	27	50	45.6	12	12	1.1
	23-Jul-24		6.54	0.31	<1.0	26	32	<1.0	<1.0	26	53	47.5	11	11	<1.0
	7-Aug-24		6.51	2.2	<1.0	27	33	<1.0	<1.0	28	55	48.1	11	11	<1.0
	20-Aug-24		6.24	1.4	<1.0	27	33	<1.0	<1.0	25	51	51.4	11	11	<1.0
	4-Sep-24		6.42	3.1	<1.0	26	32	<1.0	<1.0	28	54	51.1	10	11	1.3
	17-Sep-24		6.09	2.6	<1.0	29	35	<1.0	<1.0	26	50	47.6	10	10	<1.0
	2-Oct-24		6.11	2.8	<1.0	28	34	<1.0	<1.0	24	53	45.7	10	9.9 [4]	<1.0
		SW-131	6.47	2.7	<1.0	30	37	<1.0	<1.0	24	52	48.3	8.8 [6]	11 [4]	<0.97
	RPD		*6%*	*4%*	*NC*	*7%*	*8%*	*NC*	*NC*	*0%*	*2%*	*6%*	*13%*	*11%*	*NC*
	17-Oct-24		6.30	4.2	<1.0	31	38	<1.0	<1.0	24	50	45.3	10	11	<1.0
CL-4 btm	21-Feb-24		6.00	6.8	<1.0	34	42	<1.0	<1.0	31	59	54.8	10	11 [4]	<1.0
	28-May-24		6.71	4.7	<1.0	27	32	<1.0	<1.0	19	42	46.4	10	9.8	1.6
	11-Jun-24		6.63	5.0	<1.0	24	30	<1.0	<1.0	39	53	56.5	9.7	9.6	<0.99
	25-Jun-24		7.34	7.4	<1.0	25	30	<1.0	<1.0	28	49	50.9	11	10	2.0
	10-Jul-24		6.53	3.5	<1.0	26	32	<1.0	<1.0	30	54	46.8	10	11	1.1
	23-Jul-24		6.45	5.1	<1.0	26	32	<1.0	<1.0	25	54	48	9.8	9.5	1.9
		SW-118	6.42	4.9	<1.0	25	30	<1.0	<1.0	25	49	48.8	11	10	1.5
	RPD		*0%*	*4%*	*NC*	*4%*	*6%*	*NC*	*NC*	*0%*	*10%*	*2%*	*12%*	*5%*	*24%*
	7-Aug-24		6.59	1.6	<1.0	27	32	<1.0	<1.0	28	57	50.5	11	11	<1.0
	20-Aug-24		6.26	13	<1.0	30	37	<1.0	<1.0	26	51	47.7	11	10	2.9
	4-Sep-24		6.40	2.9	<1.0	30	37	<1.0	<1.0	27	52	49.8	10	10	2.0
	17-Sep-24		6.06	2.9	<1.0	29	35	<1.0	<1.0	24	47	56.4	9.7	11	1.4
	2-Oct-24		6.48	3.0	<1.0	29	36	<1.0	<1.0	24	51	47.5	9.4	11 [4]	<1.0
	17-Oct-24		6.26	3.8	<1.0	35	43	<1.0	<1.0	24	49	44.9	11	11	<1.0
CL-5 sfc	21-Feb-24		6.10	2.1	<1.0	41	50	<1.0	<1.0	14	49	44.4	11	11 [4]	<1.0
	28-May-24		6.74	2.4	<1.0	27	33	<1.0	<1.0	19	44	41.9	10	10	2.1
	11-Jun-24		6.69	2.3	<1.0	26	31	<1.0	<1.0	24	42	44.4	11	10	1.4
	25-Jun-24		7.42	3.3	<1.0	25	31	<1.0	<1.0	33	50	53.2	13	11	0.96
	10-Jul-24		6.70	1.6	<1.0	25	31	<1.0	<1.0	25	49	45.3	12	12	1.5
	23-Jul-24		6.54	1.2	<1.0	27	32	<1.0	<1.0	26	52	46.8	11	11	<1.0
	7-Aug-24		6.81	2.2	<1.0	25	31	<1.0	<1.0	25	53	49.4	11	10	<1.0
	20-Aug-24		6.35	2.2	<1.0	27	33	<1.0	<1.0	24	50	47.1	11	9.6	2.1
	4-Sep-24		6.41	2.7	<1.0	28	35	<1.0	<1.0	26	51	50.9	11	11	<1.0
		SW-125	6.38	2.7	<1.0	31	38	<1.0	<1.0	26	51	49.6	9.7	10	1.7
	RPD		*0%*	*0%*	*NC*	*10%*	*8%*	*NC*	*NC*	*0%*	*0%*	*3%*	*13%*	*10%*	*NC*
	17-Sep-24		6.23	2.5	<1.0	30	36	<1.0	<1.0	24	47	48.0	10	10	1.3
	2-Oct-24		6.47	2.8	<1.0	30	36	<1.0	<1.0	22	50	46.3	9.9	11 [4]	<1.0
	17-Oct-24		6.26	3.3	<1.0	33	40	<1.0	<1.0	22	48	43.6	11	9.4	<0.99
CL-5 btm	21-Feb-24		6.05	1.4	<1.0	39	47	<1.0	<1.0	16	48	43.5	10	10 [4]	<1.0
	28-May-24		6.71	2.6	<1.0	28	34	<1.0	<1.0	20	44	45.7	10	10	1.5
	11-Jun-24		6.66	2.8	<1.0	26	31	<1.0	<1.0	27	46	47.9	10	10	<1.0
	25-Jun-24		7.45	6.2	<1.0	25	31	<1.0	<1.0	29	48	48.3	11	10	1.7
	10-Jul-24		6.65	1.7	<1.0	26	32	<1.0	<1.0	25	49	43.3	9.7	13	<1.0
		SW-113	6.68	1.8	<1.0	26	32	<1.0	<1.0	25	49	46.9	10	12	<1.0
	RPD		*0%*	*6%*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*0%*	*8%*	*3%*	*8%*	*NC*
	23-Jul-24		6.52	1.2	<1.0	26	32	<1.0	<1.0	27	50	47.2	11	11	<1.0
	7-Aug-24		6.78	2.7	<1.0	27	33	<1.0	<1.0	25	53	47.7	12	11	1.2
	20-Aug-24		6.27	3.1	<1.0	30	37	<1.0	<1.0	26	52	46.4	10	11	<1.0
	4-Sep-24		6.40	2.5	<1.0	28	35	<1.0	<1.0	26	51	50.0	9.9	11	1.5
	17-Sep-24		6.05	2.7	<1.0	28	34	<1.0	<1.0	24	47	46.9	9.5	11	<1.0
	2-Oct-24		6.15	3.2	<1.0	28	34	<1.0	<1.0	23	52	44.9	9.2	10 [4]	<1.0
	17-Oct-24		6.28	3.4	<1.0	37	45	<1.0	<1.0	22	48	44.1	10	9.8	<1.0

TABLE 4
GENERAL WATER QUALITY
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameters [1]												
			pH (units)	Turbidity (NTU)	Alkalinity PP as $CaCO_3$	Alkalinity Total as $CaCO_3$	Bicarbonate (HCO_3)	Carbonate (CO_3)	Hydroxide (OH)	Sulphate (SO_4)	Hardness as $CaCO_3$	Total Hardness as $CaCO_3$	Total Organic Carbon as C	Dissolved Organic Carbon as C	TSS
CL-6 sfc	21-Feb-24		6.09	2.6	<1.0	42	52	<1.0	<1.0	15	51	47.0	12	11 [4]	1.3
	28-May-24		6.73	3.2	<1.0	28	34	<1.0	<1.0	14	40	41.2	11	11	1.0
	11-Jun-24		6.71	1.7	<1.0	26	32	<1.0	<1.0	18	39	40.7	11	10	1.4
	25-Jun-24		6.49	2.1	<1.0	26	32	<1.0	<1.0	24	47	43.6	14	12	<0.99
	10-Jul-24		6.67	1.6	<1.0	27	33	<1.0	<1.0	20	45	38.8	14	13	1.7
	23-Jul-24		6.56	1.1	<1.0	27	33	<1.0	<1.0	20	49	43.8	12	10	<1.0
	7-Aug-24		6.81	1.9	<1.0	27	33	<1.0	<1.0	21	48	42.4	11	10	<1.0
		SW-119	6.83	2.5	<1.0	26	32	<1.0	<1.0	21	50	47.0	10	11	<1.0
	RPD		*0%*	*27%*	*NC*	*4%*	*3%*	*NC*	*NC*	*0%*	*4%*	*10%*	*10%*	*10%*	*NC*
	20-Aug-24		6.25	1.7	<1.0	28	34	<1.0	<1.0	19	43	40.9	10	10	1.3
	4-Sep-24		6.41	2.2	<1.0	29	36	<1.0	<1.0	22	47	46.4	10	10	2.3
	17-Sep-24		6.22	2.2	<1.0	29	35	<1.0	<1.0	19	45	50.1	9.8	11	1.8
	2-Oct-24		6.12	2.3	<1.0	29	35	<1.0	<1.0	17	47	42.2	11	10 [4]	11
	17-Oct-24		6.30	2.5	<1.0	33	40	<1.0	<1.0	17	43	42.6	11	9.2	<1.0
CL-6 btm	21-Feb-24		6.07	2.0	<1.0	39	48	<1.0	<1.0	14	47	43.9	9.5	11 [4]	<1.0
	28-May-24		6.76	2.6	<1.0	27	33	<1.0	<1.0	15	40	41.5	10	10	1.5
	11-Jun-24		6.69	1.8	<1.0	27	33	<1.0	<1.0	22	43	40.7	10	9.9	<1.0
	25-Jun-24		6.47	2.6	<1.0	26	32	<1.0	<1.0	24	46	48.3	14	11	<0.99
		SW-110	7.44	3.0	<1.0	26	31	<1.0	<1.0	21	43	48.1	14	11	1.6
	RPD		*14%*	*14%*	*NC*	*0%*	*3%*	*NC*	*NC*	*13%*	*7%*	*0%*	*0%*	*0%*	*NC*
	10-Jul-24		6.69	1.9	<1.0	27	33	<1.0	<1.0	20	45	40.5	11	12	1.5
	23-Jul-24		6.55	1.1	<1.0	27	33	<1.0	<1.0	19	49	44.6	11	11	<1.0
	7-Aug-24		6.59	1.8	<1.0	28	34	<1.0	<1.0	21	49	43.1	11	11	<1.0
	20-Aug-24		6.33	3.3	<1.0	29	35	<1.0	<1.0	21	49	48.5	11	11	2.6
	4-Sep-24		6.38	2.5	<1.0	31	37	<1.0	<1.0	22	48	47.0	9.5	10	2.1
	17-Sep-24		6.08	1.9	<1.0	29	35	<1.0	<1.0	19	44	49.0	11	11	<1.0
	2-Oct-24		6.32	2.6	<1.0	31	37	<1.0	<1.0	17	46	42.6	9.9 [6]	9.8 [4]	<1.0
	17-Oct-24		6.36	2.7	<1.0	35	42	<1.0	<1.0	17	43	40.0	11	10	<1.0
CL-7 sfc	21-Feb-24		6.08	1.2	<1.0	41	51	<1.0	<1.0	16	51	45.4	11	12	<1.0
	28-May-24		6.68	2.3	<1.0	26	32	<1.0	<1.0	28	51	51.5	10	8.9	<1.0
	11-Jun-24		6.82	4.2	<1.0	28	34	<1.0	<1.0	51	64	66.2	9.5	10	<1.0
	25-Jun-24		6.77	4.2	<1.0	22	27	<1.0	<1.0	36	54	58.2	12	11	2.0
		SW-111	7.43	4.2	<1.0	24	29	<1.0	<1.0	35	58	54.1	10	10	1.8
	RPD		*9%*	*0%*	*NC*	*9%*	*7%*	*NC*	*NC*	*3%*	*7%*	*7%*	*18%*	*10%*	*11%*
	10-Jul-24		6.67	1.2	<1.0	24	29	<1.0	<1.0	38	61	54.8	12	11	1.1
	23-Jul-24		6.51	1.6	<1.0	25	31	<1.0	<1.0	38	58	55.9	11	10	<1.0
	7-Aug-24		6.66	2.2	<1.0	27	33	<1.0	<1.0	30	55	53.9	11	12	<1.0
	20-Aug-24		6.27	2.0	<1.0	27	33	<1.0	<1.0	29	57	51.1	11	11	1.2
	4-Sep-24		6.37	3.4	<1.0	27	33	<1.0	<1.0	30	54	54.6	10	11	1.1
	17-Sep-24		6.08	2.6	<1.0	28	34	<1.0	<1.0	27	52	49.2	11	11	<1.0
	2-Oct-24		6.10	3.4	<1.0	29	35	<1.0	<1.0	25	54	49.8	10	10 [4]	<1.0
	17-Oct-24		6.22	3.5	<1.0	35	43	<1.0	<1.0	26	51	47.4	11	10	<1.0
CL-7 btm	21-Feb-24		6.02	1.4	<1.0	41	50	<1.0	<1.0	16	51	44.0	11	11	<1.0
	28-May-24		6.65	2.5	<1.0	27	33	<1.0	<1.0	28	50	54.8	10	9.5	2.6
	11-Jun-24		6.58	4.3	<1.0	22	27	<1.0	<1.0	56	68	71.4	9.5	9.1	1.5
	25-Jun-24		7.39	3.1	<1.0	23	27	<1.0	<1.0	41	59	58.3	13	10	1.5
	10-Jul-24		6.67	1.5	<1.0	24	30	<1.0	<1.0	35	58	50.4	12	11	<1.0
	23-Jul-24		6.51	1.2	<1.0	25	30	<1.0	<1.0	32	61	53.4	11	10	<1.0
	7-Aug-24		6.61	2.9	<1.0	27	33	<1.0	<1.0	29	57	54.2	11	10	<1.0
		SW-120	6.60	3.0	<1.0	26	32	<1.0	<1.0	29	54	48.9	11	11	<1.0
	RPD		*0%*	*3%*	*NC*	*4%*	*3%*	*NC*	*NC*	*0%*	*5%*	*10%*	*0%*	*10%*	*NC*
	20-Aug-24		6.32	2.1	<1.0	28	34	<1.0	<1.0	29	55	52.2	10	11	1.0
	4-Sep-24		6.37	2.8	<1.0	30	37	<1.0	<1.0	30	54	52.2	10	13	2.0
	17-Sep-24		6.06	2.7	<1.0	30	37	<1.0	<1.0	27	52	49.4	9.6	11	1.1
	2-Oct-24		6.51	3.8	<1.0	29	35	<1.0	<1.0	26	55	48.8	11	10 [4]	<1.0
	17-Oct-24		6.19	3.4	<1.0	32	39	<1.0	<1.0	26	51	47.4	11	11	<1.0
CL-8 sfc	21-Feb-24		6.10	1.2	<1.0	41	51	<1.0	<1.0	13	50	45.0	12	11	<1.0
	28-May-24		6.91	3	<1.0	28	34	<1.0	<1.0	32	52	52.9	9.9	9.7	1.2
	11-Jun-24		6.50	4.8	<1.0	23	28	<1.0	<1.0	50	64	64.1	9.6	9.8	1.9
		SW-106	6.62	5.1	<1.0	22	27	<1.0	<1.0	52	65	66.1	9.7	9.7	2.3
	RPD		*2%*	*6%*	*NC*	*4%*	*4%*	*NC*	*NC*	*4%*	*2%*	*3%*	*1%*	*1%*	*19%*
	25-Jun-24		7.37	3.8	<1.0	22	27	<1.0	<1.0	42	57	51.2	11	10	<1.0
	10-Jul-24		6.53	1.3	<1.0	25	30	<1.0	<1.0	33	56	50.5	12	13	1.1
	23-Jul-24		6.47	1.1	<1.0	25	30	<1.0	<1.0	39	63	54.9	11	10	<1.0
	7-Aug-24		6.80	2.2	<1.0	26	31	<1.0	<1.0	29	56	53.2	11	11	<1.0
	20-Aug-24		6.28	1.3	<1.0	27	33	<1.0	<1.0	26	52	49.4	11	10	<1.0
	4-Sep-24		6.40	2.7	<1.0	30	37	<1.0	<1.0	28	53	50.6	11	11	1.8
	17-Sep-24		6.21	2.6	<1.0	29	36	<1.0	<1.0	27	52	49.7	9.7	9.9	1.1
	2-Oct-24		6.51	3.2	<1.0	29	36	<1.0	<1.0	26	54	47.6	9.7	11 [4]	1.3
	17-Oct-24		6.25	3.3	<1.0	34	42	<1.0	<1.0	26	52	50.6	11	9.9	<0.99
		SW-134	6.14	3.4	<1.0	34	41	<1.0	<1.0	26	51	47.3	11	10	<1.0
	RPD		*2%*	*3%*	*NC*	*0%*	*2%*	*NC*	*NC*	*0%*	*2%*	*7%*	*0%*	*1%*	*NC*
CL-8 btm	21-Feb-24		6.08	1.2	<1.0	39	48	<1.0	<1.0	15	48	43.1	10	11 [4]	1.1
	28-May-24		6.71	2.7	<1.0	26	32	<1.0	<1.0	32	53	54.2	9.6	9.3	<1.0
	11-Jun-24		6.52	7.1	<1.0	17	21	<1.0	<1.0	75	86	91.2	8.4	8.9	1.8
	25-Jun-24		6.35	4.8	<1.0	21	26	<1.0	<1.0	60	74	67.2	12	10	2.5
	10-Jul-24		6.59	1.2	<1.0	26	32	<1.0	<1.0	32	55	50.0	12	12	<0.99
	23-Jul-24		6.52	1.1	<1.0	25	31	<1.0	<1.0	29	58	51.1	12	10	<1.0
	7-Aug-24		6.62	3.7	<1.0	27	33	<1.0	<1.0	29	55	52.7	11	11	<1.0
	20-Aug-24		6.25	2.0	<1.0	27	33	<1.0	<1.0	27	50	49.7	11	11	1.4
		SW-122	6.16	1.8	<1.0	27	33	<1.0	<1.0	28	50	52.1	10	11	1.4
	RPD		*1%*	*11%*	*NC*	*0%*	*0%*	*NC*	*NC*	*4%*	*0%*	*5%*	*10%*	*0%*	*0%*
	4-Sep-24		6.42	3.0	<1.0	30	36	<1.0	<1.0	29	56	52.5	11	10	1.9
	17-Sep-24		6.07	3	<1.0	28	34	<1.0	<1.0	28	51	49.5	9.6	11	1.3
	2-Oct-24		6.09	3.7	<1.0	29	35	<1.0	<1.0	26	54	49.5	9.3	11 [4]	<0.99
	17-Oct-24		6.30	3.9	<1.0	33	40	<1.0	<1.0	26	51	47	11	11	<1.0
Laboratory Detection Limits			-	*0.10 - 0.20*	*1.0*	*1.0*	*1.0*	*1.0*	*1.0*	*1.0*	*0.50*	*0.50*	*0.50*	*0.50*	*0.96 - 1.1*
Manitoba Water Quality Standards, Objectives, and Guidelines [2]															
Protection of Aquatic Life and Wildlife															
Tier II Objective - Chronic			-	-	-	-	-	-	-	-	-	-	-	-	*11.5* [2a]
Tier II Objective - Acute			-	-	-	-	-	-	-	-	-	-	-	-	*31.5* [2a]
Protection of Freshwater Aquatic Life															
Tier III Guideline			*6.5 - 9.0*	-	-	-	-	-	-	*500*	-	-	-	-	-

Notes:
"-" = No Data
NC = Not Calculated
NTU = Nephelometric Turbidity Units
RPD = Relative Percent Difference
TSS = Total Suspended Solids

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.
   a. The MWQSOG Tier II objectives for TSS state an allowable 5 mg/L increase over background for chronic exposures and 25 mg/L increase over background for acute exposures. In the case of Sherlett Creek, analysis of all available TSS data for 2017-2023 indicates the maximum observed concentration is 6.5 mg/L, for a Tier II chronic exposure objective of 11.5 mg/L and a Tier II acute exposure objective of 31.5 mg/L. This objective has also been applied to Camp Lake and Cold Lake.
4. Sample filtered and preserved past method specified hold time
5. Sample was originally processed within hold time. Data quality required investigation. Re-analysis was completed past recommended hold time.
6. Matrix spike exceeds acceptance limits due to matrix interference.
7. Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.
8. Detection limits raised due to matrix interference.

- Values above Tier II Chronic MWQSOG value.
- Values above Tier II Acute MWQSOG value.
- Values above Tier III MWQSOG guideline.

Sample ID	Date	Field Duplicate Sample ID	Parameters [1]												
			pH (units)	Turbidity (NTU)	Alkalinity PP as $CaCO_3$	Alkalinity Total as $CaCO_3$	Bicarbonate (HCO_3)	Carbonate (CO_3)	Hydroxide (OH)	Sulphate (SO_4)	Hardness as $CaCO_3$	Total Hardness as $CaCO_3$	Total Organic Carbon as C	Dissolved Organic Carbon as C	TSS
TRIP BLANK	21-Feb-24		4.94	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50 [4]	<1.0
	28-May-24		5.13	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50 [4]	<1.0
	11-Jun-24		5.29	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0
	25-Jun-24		5.86	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0
	10-Jul-24		5.29	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0
	23-Jul-24		5.07	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0
	7-Aug-24		5.07	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0
	20-Aug-24		5.32	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0
	4-Sep-24		5.39	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	1.5
	17-Sep-24		5.16	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0
	2-Oct-24		-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Oct-24		4.86	<0.10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	<1.0
Laboratory Detection Limits			-	*0.10 - 0.20*	*1.0*	*1.0*	*1.0*	*1.0*	*1.0*	*1.0*	*0.50*	*0.50*	*0.50*	*0.50*	*0.96 - 1.1*

Notes:
"-" = No Data
NC = Not Calculated
RPD = Relative Percent Difference
NTU = Nephelometric Turbidity Units
TSS = Total Suspended Solids

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
4. Sample filtered and preserved past method specified hold time

TABLE 5
DISSOLVED METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																															
			Aluminum (Al) Dissolved	Antimony (Sb) Dissolved	Arsenic (As) Dissolved	Barium (Ba) Dissolved	Beryllium (Be) Dissolved	Boron (B) Dissolved	Cadmium (Cd) Dissolved	Calcium (Ca) Dissolved	Chromium (Cr) Dissolved	Cobalt (Co) Dissolved	Copper (Cu) Dissolved	Iron (Fe) Dissolved	Lead (Pb) Dissolved	Lithium (Li) Dissolved	Magnesium (Mg) Dissolved	Manganese (Mn) Dissolved	Molybdenum (Mo) 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) Dissolved	Thallium (Tl) Dissolved	Tin (Sn) Dissolved	Titanium (Ti) Dissolved	Uranium (U) Dissolved	Vanadium (V) Dissolved	Zinc (Zn) Dissolved
Camp Lake																																		
SB-1	21-Feb-24		0.011	<0.00060	0.00030	0.022	<0.0010	<0.020	0.00069	91	<0.0010	0.00057	0.012	<0.060	<0.00020	0.022	14	0.14	<0.00020	0.0017	<0.10	7.2	<0.00020	1.2	<0.00010	5.2	0.092	84	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.21
	28-May-24		0.011	<0.00060	0.00026	0.014	<0.0010	<0.020	0.00096	55	<0.0010	0.0013	0.016	0.22	<0.00020	<0.020	8.9	0.21	<0.00020	0.0021	<0.10	4.6	<0.00020	1.1	<0.00010	3.4	0.053	54	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.30
	11-Jun-24		0.025	<0.00060	0.00028	<0.010	<0.0010	<0.020	0.00056	24	<0.0010	0.0005	0.020	0.33	<0.00020	<0.020	4.6	0.068	<0.00020	0.0012	<0.10	2.3	<0.00020	1.0	<0.00010	2.3	0.03	19	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.19
	25-Jun-24		0.033	<0.00060	0.00029	<0.010	<0.0010	<0.020	0.00063	18	<0.0010	0.0004	0.027	0.28	<0.00020	<0.020	3.9	0.04	<0.00020	0.00095	<0.10	1.9	<0.00020	0.87	<0.00010	2.1	0.03	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.20
	10-Jul-24		0.020	<0.00060	0.00031	<0.010	<0.0010	<0.020	0.00031	18	<0.0010	<0.00030	0.013	0.26	<0.00020	<0.020	4.1	<0.0040	<0.00020	0.00071	<0.10	2.0	<0.00020	0.93	<0.00010	2.2	0.027	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.095
	23-Jul-24		0.017	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00028	18	<0.0010	<0.00030	0.013	0.31	<0.00020	<0.020	4.1	<0.0040	<0.00020	0.00068	<0.10	2.0	<0.00020	0.87	<0.00010	2.2	0.03	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.094
	7-Aug-24		0.022	<0.00060	0.00038	0.012	<0.0010	<0.020	0.00026	22	<0.0010	<0.00030	0.011	1.4	<0.00020	<0.020	4.7	0.012	0.00028	0.00065	<0.10	2.4	<0.00020	0.91	<0.00010	2.3	0.034	18	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.072
	20-Aug-24		0.022	<0.00060	0.00032	<0.010	<0.0010	<0.020	0.00024	24	<0.0010	<0.00030	0.012	1.9	0.00026	<0.020	4.9	0.0060	<0.00020	0.00083	<0.10	2.6	<0.00020	0.82	<0.00010	2.5	0.038	18	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.070
		SW-124	0.020	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00024	24	<0.0010	<0.00030	0.012	2.0	<0.00020	<0.020	4.9	0.0056	<0.00020	0.00077	<0.10	2.6	<0.00020	0.77	<0.00010	2.5	0.038	18	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.071
	RPD		*10%*	*NC*	*12%*	*NC*	*NC*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*5%*	*NC*	*NC*	*0%*	*7%*	*NC*	*8%*	*NC*	*0%*	*NC*	*6%*	*NC*	*0%*	*0%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*1%*
	4-Sep-24		0.025	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00023	27	<0.0010	<0.00030	0.012	3.7	<0.00020	<0.020	5.5	0.0061	0.0017	0.00076	<0.10	3.0	<0.00020	0.79	<0.00010	2.8	0.036	23	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.071
	17-Sep-24		0.017	<0.00060	0.00030	0.010	<0.0010	<0.020	0.00018	27	<0.0010	<0.00030	0.0089	3.8	<0.00020	0.031	5.1	0.0055	<0.00020	0.00074	<0.10	2.9	<0.00020	0.67	<0.00010	2.6	0.036	24	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.050
	2-Oct-24		0.021	<0.00060	0.00036	0.012	<0.0010	<0.020	0.00024	34	<0.0010	<0.00030	0.0088	4.4	0.00028	<0.020	6.5	0.056	<0.00020	0.00063	<0.10	3.4	<0.00020	0.76	<0.00010	3.1	0.047	32	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.065
	17-Oct-24		0.011	<0.00060	0.00037	0.011	<0.0010	<0.020	0.00025	35	<0.0010	<0.00030	0.0073	2.4	<0.00020	<0.020	6.2	0.061	<0.00020	0.00092	<0.10	3.4	<0.00020	0.65	<0.00010	3.1	0.047	31	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.070
SB-2	21-Feb-24		0.012	<0.00060	0.00024	0.022	<0.0010	0.022	0.00068	94	<0.0010	0.00055	0.012	<0.060	<0.00020	<0.020	15	0.15	<0.00020	0.0014	<0.10	7.6	<0.00020	1.2	<0.00010	5.1	0.098	83	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.21
	28-May-24		0.0094	<0.00060	0.00023	0.012	<0.0010	<0.020	0.00086	51	<0.0010	0.0012	0.015	0.19	<0.00020	<0.020	8.3	0.18	<0.00020	0.0016	<0.10	4.1	<0.00020	1.1	<0.00010	3.2	0.05	52	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.29
	11-Jun-24		0.019	<0.00060	0.00031	<0.010	<0.0010	<0.020	0.00048	22	<0.0010	0.00033	0.017	0.28	<0.00020	<0.020	4.3	0.055	<0.00020	0.00092	<0.10	2.2	<0.00020	1.0	<0.00010	2.2	0.03	16	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.17
	25-Jun-24		0.035	<0.00060	0.00029	0.010	<0.0010	<0.020	0.00061	20	<0.0010	0.0005	0.024	0.35	<0.00020	<0.020	4.4	0.050	<0.00020	0.0011	<0.10	2.1	<0.00020	0.93	<0.00010	2.2	0.034	16	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.20
		SW-112	0.036	<0.00060	0.00030	0.011	<0.0010	<0.020	0.00063	20	<0.0010	0.00048	0.025	0.51	<0.00020	<0.020	4.6	0.062	<0.00020	0.0012	<0.10	2.0	<0.00020	1.1	<0.00010	2.0	0.032	17	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.20
	RPD		*3%*	*NC*	*3%*	*10%*	*NC*	*NC*	*3%*	*0%*	*NC*	*4%*	*4%*	*37%*	*NC*	*NC*	*4%*	*21%*	*NC*	*9%*	*NC*	*5%*	*NC*	*17%*	*NC*	*10%*	*6%*	*6%*	*NC*	*NC*	*NC*	*NC*	*NC*	*0%*
	10-Jul-24		0.023	<0.00060	0.00033	<0.010	<0.0010	<0.020	0.00035	18	<0.0010	<0.00030	0.015	0.26	<0.00020	<0.020	4.1	<0.0040	<0.00020	0.00086	<0.10	2.0	<0.00020	0.91	<0.00010	2.2	0.027	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.11
	23-Jul-24		0.016	<0.00060	0.00032	0.011	<0.0010	<0.020	0.00025	18	<0.0010	<0.00030	0.013	0.31	<0.00020	<0.020	4.2	<0.0040	<0.00020	0.00074	<0.10	2.1	0.00022	0.96	<0.00010	2.2	0.03	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.081
	7-Aug-24		0.017	<0.00060	0.00031	<0.010	<0.0010	<0.020	0.00023	21	<0.0010	<0.00030	0.0098	2.8	0.00044	<0.020	4.5	0.031	<0.00020	<0.00050	<0.10	2.3	<0.00020	0.91	<0.00010	2.3	0.033	17	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.062
	20-Aug-24		0.020	<0.00060	0.00037	0.010	<0.0010	<0.020	0.00023	23	<0.0010	<0.00030	0.012	2.0	<0.00020	<0.020	4.7	0.0095	<0.00020	0.00071	<0.10	2.5	<0.00020	0.82	<0.00010	2.4	0.036	17	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.069
	4-Sep-24		0.024	<0.00060	0.0004	0.010	<0.0010	<0.020	0.00021	27	<0.0010	<0.00030	0.012	3.9	0.00033	<0.020	5.3	0.005	<0.00020	0.00087	<0.10	2.9	<0.00020	0.77	<0.00010	2.8	0.036	21	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.068
	17-Sep-24		0.018	<0.00060	0.00029	0.010	<0.0010	<0.020	0.00021	29	<0.0010	<0.00030	0.0096	4.1	<0.00020	0.038	5.7	0.011	<0.00020	0.0010	<0.10	3.1	<0.00020	0.74	<0.00010	2.9	0.037	26	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.066
	2-Oct-24		0.014	<0.00060	0.00033	0.011	<0.0010	<0.020	0.00022	35	<0.0010	<0.00030	0.0070	4.0	0.00021	<0.020	6.8	0.063	<0.00020	0.00058	<0.10	3.4	<0.00020	0.75	<0.00010	3.1	0.046	34	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.056
	17-Oct-24		0.0096	<0.00060	0.00033	0.011	<0.0010	<0.020	0.00023	35	<0.0010	<0.00030	0.0073	2.5	<0.00020	<0.020	6.2	0.06	<0.00020	0.00093	<0.10	3.4	<0.00020	0.65	<0.00010	3.1	0.047	32	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.070
CB-1	21-Feb-24		0.0064	<0.00060	0.00025	0.020	<0.0010	<0.020	0.00062	87	<0.0010	0.00052	0.010	<0.060	<0.00020	<0.020	14	0.14	<0.00020	0.0015	<0.10	6.9	<0.00020	1.2	<0.00010	4.8	0.089	83	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.19
	28-May-24		0.019	<0.00060	<0.00020	0.014	<0.0010	<0.020	0.0011	64	<0.0010	0.0016	0.020	0.28	<0.00020	<0.020	10	0.25	<0.00020	0.0022	<0.10	5.0	<0.00020	1.1	<0.00010	3.7	0.058	66	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.34
	11-Jun-24		0.026	<0.00060	<0.00020	0.010	<0.0010	<0.020	0.00069	32	<0.0010	0.00079	0.020	0.33	<0.00020	<0.020	5.7	0.11	<0.00020	0.0012	<0.10	2.9	<0.00020	1.0	<0.00010	2.6	0.036	26	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.21
	25-Jun-24		0.036	<0.00060	0.0003	<0.010	<0.0010	<0.020	0.00060	20	<0.0010	0.00048	0.025	0.47	<0.00020	<0.020	4.5	0.057	<0.00020	0.0013	<0.10	2.1	<0.00020	1.0	<0.00010	2.1	0.032	17	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.19
	10-Jul-24		0.022	<0.00060	0.00024	<0.010	<0.0010	<0.020	0.00030	18	<0.0010	<0.00030	0.013	0.25	<0.00020	<0.020	4.2	<0.0040	<0.00020	0.00081	<0.10	2.0	<0.00020	0.92	<0.00010	2.2	0.027	13	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.095
		SW-115	0.026	<0.00060	0.00035	<0.010	<0.0010	<0.020	0.00038	19	<0.0010	<0.00030	0.016	0.27	<0.00020	<0.020	4.2	<0.0040	<0.00020	0.00097	<0.10	2.0	<0.00020	0.93	<0.00010	2.2	0.027	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.12
	RPD		*17%*	*NC*	*37%*	*NC*	*NC*	*NC*	*24%*	*5%*	*NC*	*NC*	*21%*	*8%*	*NC*	*NC*	*0%*	*NC*	*NC*	*18%*	*NC*	*0%*	*NC*	*1%*	*NC*	*0%*	*0%*	*8%*	*NC*	*NC*	*NC*	*NC*	*NC*	*23%*
	23-Jul-24		0.018	<0.00060	0.00028	<0.010	<0.0010	<0.020	0.00033	20	<0.0010	<0.00030	0.014	0.34	<0.00020	<0.020	4.3	<0.0040	<0.00020	0.00077	<0.10	2.2	<0.00020	0.87	<0.00010	2.3	0.032	14	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.11
		SW-116	0.018	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00031	20	<0.0010	<0.00030	0.014	0.32	<0.00020	<0.020	4.4	<0.0040	<0.00020	0.00079	<0.10	2.2	<0.00020	0.89	<0.00010	2.3	0.032	14	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.10
	RPD		*0%*	*NC*	*25%*	*NC*	*NC*	*NC*	*6%*	*0%*	*NC*	*NC*	*0%*	*6%*	*NC*	*NC*	*2%*	*NC*	*NC*	*3%*	*NC*	*0%*	*NC*	*2%*	*NC*	*0%*	*0%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*10%*
	7-Aug-24		0.017	<0.00060	0.00035	<0.010	<0.0010	<0.020	0.00024	24	<0.0010	<0.00030	0.011	1.6	<0.00020	<0.020	4.9	0.018	<0.00020	0.00057	<0.10	2.5	<0.00020	0.84	<0.00010	2.4	0.035	20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.069
	20-Aug-24		0.022	<0.00060	0.00036	0.011	<0.0010	<0.020	0.00024	25	<0.0010	<0.00030	0.012	2.0	<0.00020	<0.020	5.0	0.0057	<0.00020	0.00081	<0.10	2.8	<0.00020	0.77	<0.00010	2.5	0.039	18	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.072
	4-Sep-24		0.025	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00024	28	<0.0010	<0.00030	0.012	3.5	<0.00020	<0.020	5.5	0.0071	<0.00020	0.00084	<0.10	3.0	<0.00020	0.77	<0.00010	2.8	0.035	24	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.087
	17-Sep-24		0.016	<0.00060	0.0005	<0.010	<0.0010	<0.020	0.00021	27	<0.0010	<0.00030	0.0095	3.6	<0.00020	<0.020	5.2	0.005	0.00022	0.00079	<0.10	2.8	<0.00020	0.66	<0.00010	2.6	0.037	25	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.063
	2-Oct-24		0.019	<0.00060	0.00035	0.011	<0.0010	<0.020	0.00024	35	<0.0010	<0.00030	0.0085	4.2	0.00025	<0.020	6.7	0.052	<0.00020	0.00056	<0.10	3.4	<0.00020	0.76	<0.00010	3.1	0.046	34	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.063
	17-Oct-24		0.011	<0.00060	0.00028	0.012	<0.0010	<0.020	0.00025	36	<0.0010	<0.00030	0.0079	2.4	<0.00020	<0.020	6.3	0.058	<0.00020	0.00098	<0.10	3.5	<0.00020	0.64	<0.00010	3.1	0.048	32	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.075
CB-2	21-Feb-24		0.0069	<0.00060	0.00032	0.022	<0.0010	0.022	0.00068	92	<0.0010	0.00049	0.011	<0.060	0.00021	<0.020	14	0.14	<0.00020	0.0016	<0.10	7.5	<0.00020	1.2	<0.00010	5.0	0.096	86	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.21
	28-May-24		0.027	<0.00060	<0.00020	0.015	<0.0010	<0.020	0.0012	66	<0.0010	0.0017	0.021	0.37	<0.00020	<0.020	10	0.26	<0.00020	0.0024	<0.10	5.3	<0.00020	1.1	<0.00010	3.7	0.059	66	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.35
	11-Jun-24		0.028	<0.00060	0.00026	0.016	<0.0010	<0.020	0.00075	31	<0.0010	0.00093	0.022	0.35	<0.00020	<0.020	5.4	0.11	<0.00020	0.0015	<0.10	2.6	<0.00020	1.1	<0.00010	2.4	0.042	29	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.25
	25-Jun-24		0.035	<0.00060	0.00028	<0.010	<0.0010	<0.020	0.00061	22	<0.0010	0.00057	0.023	0.38	<0.00020	<0.020	4.5	0.060	<0.00020	0.0013	<0.10	2.2	<0.00020	0.93	<0.00010	2.2	0.034	18	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.19
	10-Jul-24		0.019	<0.00060	0.00025	<0.010	<0.0010	<0.020	0.00032	21	<0.0010	<0.00030	0.013	0.28	<0.00020	<0.020	4.7	<0.0040	<0.00020	0.0019	<0.10	2.2	<0.00020	1.0	<0.00010	2.4	0.029	16	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.098
	23-Jul-24		0.017	<0.00060	0.00036	0.010	<0.0010	<0.020	0.00035	22	<0.0010	<0.00030	0.015	0.36	<0.00020	<0.020	4.6	<0.0040	<0.00020	0.0010	<0.10	2.3	<0.00020	0.85	<0.00010	2.3	0.033	17	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.11
	7-Aug-24		0.018	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.00026	23	<0.0010	<0.00030	0.012	1.4	<0.00020	<0.020	4.8	0.012	<0.00020	0.00055	<0.10	2.5	<0.00020	0.84	<0.00010	2.4	0.035	19	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.074
		SW-121	0.022	<0.00060	0.00031	0.012	<0.0010	<0.020	0.00024	24	<0.0010	<0.00030	0.012	1.4	<0.00020	<0.020	4.8	0.012	<0.00020	0.00054	<0.10	2.5	<0.00020	0.91	<0.00010	2.4	0.035	19	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.072
	RPD		*20%*	*NC*	*20%*	*NC*	*NC*	*NC*	*8%*	*4%*	*NC*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*0%*	*NC*	*2%*	*NC*	*0%*	*NC*	*8%*	*NC*	*0%*	*0%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*3%*
	20-Aug-24		0.022	<0.00060	0.00034	0.011	<0.0010	<0.020	0.00024	25	<0.0010	<0.00030	0.012	1.8	<0.00020	<0.020	5.1	0.0043	<0.00020	0.0008	<0.10	2.7	<0.00020	0.75	<0.00010	2.5	0.039	19	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.070
	4-Sep-24		0.022	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00021	29	<0.0010	<0.00030	0.011	3.5	<0.00020	<0.020	5.6	0.0067	<0.00020	0.00067	<0.10	3.1	<0.00020	0.73	<0.00010	2.8	0.036	25	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.061
	17-Sep-24		0.019	<0.00060	0.00033	<0.010	<0.0010	<0.020	0.00019	29	<0.0010	<0.00030	0.0096	3.8	<0.00020	<0.020	5.5	0.005	<0.00020	0.0010	<0.10	3.0	<0.00020	0.65	<0.00010	2.7	0.037	26	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.057
	2-Oct-24		0.019	<0.00060	0.00033	0.012	<0.0010	<0.020	0.00024	34	<0.0010	<0.00030	0.0080	3.8	0.00023	<0.020	6.4	0.053	<0.00020	0.00053	<0.10	3.2	<0.00020	0.74	<0.00010	3.0	0.045	33	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.061
	17-Oct-24		0.012	<0.00060	0.00034	0.012	<0.0010	<0.020	0.00026	36	<0.0010	<0.00030	0.0087	2.5	0.00043	<0.020	6.3	0.058	<0.00020	0.00095	<0.10	3.6	<0.00020	0.65	<0.00010	3.1	0.049	32	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.078
NB-1	21-Feb-24		0.0082	<0.00060	0.00032	0.024	<0.0010	0.023	0.00068	98	<0.0010	0.00052	0.011	<0.060	<0.00020	<0.020	15	0.15	<0.00020	0.0016	<0.10	7.9	<0.00020	1.2	<0.00010	5.4	0.10	94	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.20
	28-May-24		0.076	<0.00060	<0.00020	0.015	<0.0010	<0.020	0.0014	74	<0.0010	0.0021	0.035	1.2	0.00039	<0.020	11	0.31	<0.00020	0.0024	<0.10	5.3	<0.00020	1.0	<0.00010	3.6	0.064	80	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.40
	11-Jun-24		0.023	<0.00060	0.00022	0.012	<0.0010	<0.020	0.0010	43	<0.0010	0.0014	0.024	0.33	<0.00020	<0.020	7.1	0.17	<0.00020	0.0019	<0.10	3.6	<0.00020	1.1	<0.00010	2.9	0.044	41	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.31
		SW-108	0.022	<0.00060	<0.00020	0.012	<0.0010	<0.020	0.00088	45	<0.0010	0.0012	0.021	0.35	<0.00020	<0.020	7.5	0.17	<0.00020	0.0016	<0.10	3.7	<0.00020	1.1	<0.00010	3.1	0.045	41	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.26
	RPD		*4%*	*NC*	*NC*	*0%*	*NC*	*NC*	*13%*	*5%*	*NC*	*15%*	*13%*	*6%*	*NC*	*NC*	*5%*	*0%*	*NC*	*17%*	*NC*	*3%*	*NC*	*0%*	*NC*	*7%*	*2%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*18%*
	25-Jun-24		0.041	<0.00060	0.00030	0.010	<0.0010	<0.020	0.00081	23	<0.0010	0.00076	0.029	0.57	<0.00020	<0.020	5.3	0.079	<0.00020	0.0014	<0.10	2.1	<0.00020	1.0	<0.00010	2.0	0.036	24	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.24
	10-Jul-24		0.026	<0.00060	0.00024	<0.010	<0.0010	<0.020	0.00043	21	<0.0010	<0.00030	0.021	0.29	<0.00020	<0.020	4.5	<0.0040	<0.00020	0.0010	<0.10	2.1	<0.00020	0.94	<0.00010	2.3	0.029	16	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.15
	23-Jul-24		0.021	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00029	22	<0.0010	<0.00030	0.016	0.38	<0.00020	<0.020	4.6	<0.0040	<0.00020	0.00094	<0.10	2.3	0.0002	0.84	<0.00010	2.3	0.033	17	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.097
	7-Aug-24		0.023	<0.00060	0.00035	<0.010	<0.0010	<0.020	0.00028	25	<0.0010	<0.00030	0.013	1.4	<0.00020	<0.020	5.1	0.012	0.00044	0.00063	<0.10	2.5	<0.00020	0.78	<0.00010	2.4	0.033	21	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.076
	20-Aug-24		0.023	<0.00060	0.00031	<0.010	<0.0010	<0.020	0.00026	27	<0.0010	<0.00030	0.012	2.0	<0.00020	<0.020	5.4	0.0089	<0.00020	0.00087	<0.10	2.7	<0.00020	0.69	<0.00010	2.5	0.040	22	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.071
	4-Sep-24		0.027	<0.00060	0.00033	<0.010	<0.0010	<0.020	0.00023	32	<0.0010	<0.00030	0.012	2.9	<0.00020	<0.020	6.0	<0.0040	<0.00020	0.00083	<0.10	3.0	<0.00020	0.63	<0.00010	2.7	0.037	28	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.068
	17-Sep-24		0.019	<0.00060	0.00032	<0.050	<0.0010	<0.10	0.0002	34	<0.0010	<0.00030	0.0085	2.7	<0.00020	<0.10	6.0	<0.020	0.00050	0.00068	<0.50	2.9	<0.00020	<2.5	<0.00010	3.1	<0.10	31	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.051
	2-Oct-24		0.022	<0.00060	0.00027	0.011	<0.0010	<0.020	0.00026	39	<0.0010	<0.00030	0.0087	3.6	<0.00020	<0.020	7.2	0.041	<0.00020	0.00055	<0.10	3.4	<0.00020	0.69	<0.00010	2.9	0.048	37	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.067
	17-Oct-24		0.012	<0.00060	0.0003	0.011	<0.0010	<0.020	0.00028	40	<0.0010	<0.00030	0.0078	2.2	<0.00020	<0.020	6.9	0.058	<0.00020	0.00097	<0.10	3.5	<0.00020	0.6	<0.00010	3.0	0.050	37	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.078
		SW-136	0.012	<0.00060	0.00033	0.012	<0.0010	<0.020	0.00027	41	<0.0010	<0.00030	0.0076	2.3	0.00042	<0.020	7.2	0.059	<0.00020	0.00090	<0.10	3.6	<0.00020	0.61	<0.00010	3.1	0.051	35	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.075
	RPD		*0%*	*NC*	*10%*	*9%*	*NC*	*NC*	*4%*	*2%*	*NC*	*NC*	*3%*	*4%*	*NC*	*NC*	*4%*	*2%*	*NC*	*7%*	*NC*	*3%*	*NC*	*2%*	*NC*	*3%*	*2%*	*6%*	*NC*	*NC*	*NC*	*NC*	*NC*	*4%*
NB-2	21-Feb-24		0.0061	<0.00060	0.00029	0.021	<0.0010	<0.020	0.00062	91	<0.0010	0.00052	0.0096	<0.060	<0.00020	<0.020	14	0.15	0.00095	0.0015	<0.10	7.3	<0.00020	1.2	<0.00010	4.9	0.094	82	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.19
	28-May-24		0.073	<0.00060	<0.00020	0.016	<0.0010	<0.020	0.0014	77	<0.0010	0.0021	0.034	1.0	0.00038	<0.020	12	0.32	<0.00020	0.0025	<0.10	5.4	<0.00020	1.1	<0.00010	3.8	0.065	81	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.39
	11-Jun-24		0.029	<0.00060	0.00022	0.011	<0.0010	<0.020	0.0010	40	<0.0010	0.0014	0.048	0.27	<0.00020	<0.020	6.7	0.16	<0.00020	<0.00050	<0.10	3.3	<0.00020	1.1	<0.00010	2.8	0.042	40	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.31
	25-Jun-24		0.038	<0.00060	0.00024	<0.010	<0.0010	<0.020	0.00076	25	<0.0010	0.00076	0.027	0.40	<0.00020	<0.020	4.9	0.048	<0.00020	0.0014	<0.10	2.5	<0.00020	0.82	<0.00010	2.3	0.037	19	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.23
	10-Jul-24		0.024	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00038	20	<0.0010	<0.00030	0.019	0.28	<0.00020	<0.020	4.4	<0.0040	<0.00020	0.00088	<0.10	2.1	<0.00020	0.92	<0.00010	2.2	0.028	14	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.13
	23-Jul-24		0.018	<0.00060	0.00028	<0.010	<0.0010	<0.020	0.00028	21	<0.0010	<0.00030	0.015	0.43	<0.00020	<0.020	4.5	<0.0040	<0.00020	0.00089	<0.10	2.2	<0.00020	0.92	<0.00010	2.3	0.030	18	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.087
	7-Aug-24		0.020	<0.00060	0.00033	<0.010	<0.0010	<0.020	0.00025	26	<0.0010	<0.00030	0.012	1.2	<0.00020	<0.020	5.2	0.0067	0.00029	<0.00050	<0.10	2.6	<0.00020	0.78	<0.00010	2.4	0.033	20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.072
	20-Aug-24		0.024	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00024	27	<0.0010	<0.00030	0.013	1.9	<0.00020	<0.020	5.3	0.0066	<0.00020	0.00084	<0.10	2.6	<0.00020	0.68	<0.00010	2.4	0.040	22	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.071
	4-Sep-24		0.029	<0.00060	0.0004	<0.010	<0.0010	<0.020	0.00024	31	<0.0010	<0.00030	0.013	3.0	<0.00020	<0.020	5.9	<0.0040	<0.00020	0.00086	<0.10	3.0	<0.00020	0.64	<0.00010	2.7	0.037	27	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.070
	17-Sep-24		0.023	<0.00060	0.00039	0.010	<0.0010	<0.020	0.00021	38	<0.0010	<0.00030	0.0097	2.7	<0.00020	<0.020	6.0	<0.0040	<0.00020	0.00070	<0.10	3.5	<0.00020	0.57	<0.00010	3.1	0.043	30	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.057
		SW-128	0.020	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00020	34	<0.0010	<0.00030	0.0096	2.9	<0.00020	<0.020	5.9	<0.0040	<0.00020	0.00086	<0.10	3.2	<0.00020	0.54	<0.00010	2.8	0.040	31	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.063
	RPD		*14%*	*NC*	*14%*	*NC*	*NC*	*NC*	*5%*	*11%*	*NC*	*NC*	*1%*	*7%*	*NC*	*NC*	*2%*	*NC*	*NC*	*21%*	*NC*	*9%*	*NC*	*5%*	*NC*	*10%*	*7%*	*3%*	*NC*	*NC*	*NC*	*NC*	*NC*	*10%*
	2-Oct-24		0.019	<0.00060	0.00033	0.01	<0.0010	<0.020	0.00026	38	<0.0010	<0.00030	0.0085	3.3	<0.00020	<0.020	7.0	0.050	<0.00020	0.0013	<0.10	3.2	<0.00020	0.68	<0.00010	2.8	0.046	38	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.064
		SW-131	0.024	<0.00060	0.00027	0.01	<0.0010	<0.020	0.00026	39	<0.0010	<0.00030	0.0093	3.4	<0.00020	<0.020	7.3	0.039	<0.00020	0.00065	<0.10	3.3	<0.00020	0.67	<0.00010	2.9	0.047	38	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.070
	RPD		*23%*	*NC*	*20%*	*0%*	*NC*	*NC*	*0%*	*3%*	*NC*	*NC*	*9%*	*3%*	*NC*	*NC*	*4%*	*25%*	*NC*	*67%*	*NC*	*3%*	*NC*	*1%*	*NC*	*4%*	*2%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*9%*
	17-Oct-24		0.012	<0.00060	0.0003	0.012	<0.0010	<0.020	0.00028	41	<0.0010	<0.00030	0.0078	2.4	<0.00020	<0.020	7.5	0.064	<0.00020	0.0017	<0.10	3.6	<0.00020	0.73	<0.00010	3.1	0.042	41	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.075

TABLE 5
DISSOLVED METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																																
			Aluminum (Al) Dissolved	Antimony (Sb) Dissolved	Arsenic (As) Dissolved	Barium (Ba) Dissolved	Beryllium (Be) Dissolved	Boron (B) Dissolved	Cadmium (Cd) Dissolved	Calcium (Ca) Dissolved	Chromium (Cr) Dissolved	Cobalt (Co) Dissolved	Copper (Cu) Dissolved	Iron (Fe) Dissolved	Lead (Pb) Dissolved	Lithium (Li) Dissolved	Magnesium (Mg) Dissolved	Manganese (Mn) Dissolved	Molybdenum (Mo) 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) Dissolved	Thallium (Tl) Dissolved	Tin (Sn) Dissolved	Titanium (Ti) Dissolved	Uranium (U) Dissolved	Vanadium (V) Dissolved	Zinc (Zn) Dissolved
EB-1	21-Feb-24		0.0069	<0.00060	0.00027	0.023	<0.0010	0.022	0.00074	100	<0.0010	0.00041	0.011	<0.060	<0.00020	<0.020	17	0.13	<0.00020	0.0018	<0.10	8.1	<0.00020	1.2	<0.00010	5.5	0.10	96	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.25
		SW-100	0.0063	<0.00060	0.00027	0.024	<0.0010	<0.020	0.00076	100	<0.0010	0.00045	0.012	<0.060	<0.00020	<0.020	16	0.13	<0.00020	0.0019	<0.10	8.3	<0.00020	1.3	<0.00010	5.8	0.10	93	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.25
	RPD		*9%*	*NC*	*0%*	*4%*	*NC*	*NC*	*3%*	*0%*	*NC*	*9%*	*9%*	*NC*	*NC*	*NC*	*6%*	*0%*	*NC*	*5%*	*NC*	*2%*	*NC*	*8%*	*NC*	*5%*	*0%*	*3%*	*NC*	*NC*	*NC*	*NC*	*NC*	*0%*
	28-May-24		0.16	<0.00060	<0.00020	0.017	<0.0010	<0.020	0.0022	75	<0.0010	0.0039	0.060	1.0	<0.00020	<0.020	12	0.39	<0.00020	0.0044	<0.10	5.4	<0.00020	1.1	<0.00010	4.0	0.067	80	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.62
	11-Jun-24		0.035	<0.00060	<0.00020	0.014	<0.0010	<0.020	0.0019	53	<0.0010	0.0031	0.047	0.14	<0.00020	<0.020	8.6	0.27	<0.00020	0.0036	<0.10	4.1	<0.00020	1.1	<0.00010	3.3	0.054	53	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.54
	25-Jun-24		0.044	<0.00060	0.00024	0.012	<0.0010	<0.020	0.0012	34	<0.0010	0.0018	0.032	0.29	<0.00020	<0.020	6.3	0.13	<0.00020	0.0025	<0.10	3.0	<0.00020	1.0	<0.00010	2.7	0.046	32	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.34
	10-Jul-24		0.032	<0.00060	<0.00020	0.011	<0.0010	<0.020	0.00073	32	<0.0010	0.00052	0.019	0.30	<0.00020	<0.020	6.2	0.069	<0.00020	0.0014	<0.10	2.9	<0.00020	1.0	<0.00010	3.1	0.038	30	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.19
	23-Jul-24		0.025	<0.00060	0.00034	0.011	<0.0010	<0.020	0.00051	32	<0.0010	<0.00030	0.016	0.44	<0.00020	<0.020	6.2	<0.0040	<0.00020	0.0014	<0.10	2.9	<0.00020	0.92	<0.00010	2.8	0.038	30	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.15
	7-Aug-24		0.021	<0.00060	0.00043	0.012	<0.0010	<0.020	0.00038	36	<0.0010	<0.00030	0.012	0.86	<0.00020	<0.020	6.5	0.0061	<0.00020	0.00092	<0.10	3.2	<0.00020	0.79	<0.00010	2.9	0.045	32	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.095
	20-Aug-24		0.022	<0.00060	0.00031	0.011	<0.0010	<0.020	0.00032	32	<0.0010	<0.00030	0.012	1.3	<0.00020	<0.020	6.3	0.0044	<0.00020	0.0010	<0.10	3.1	<0.00020	0.64	<0.00010	3.0	0.043	32	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.083
	4-Sep-24		0.024	<0.00060	0.00032	0.014	<0.0010	<0.020	0.00028	36	<0.0010	<0.00030	0.013	2.1	<0.00020	<0.020	6.4	<0.0040	0.00022	0.00082	<0.10	3.3	<0.00020	0.54	<0.00010	2.9	0.048	32	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.082
	17-Sep-24		0.018	<0.00060	0.00027	0.011	<0.0010	<0.020	0.00027	34	<0.0010	<0.00030	0.010	1.9	<0.00020	<0.020	6.1	<0.0040	0.00025	0.00097	<0.10	3.3	<0.00020	<0.50	<0.00010	2.8	0.041	32	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.082
	2-Oct-24		0.028	<0.00060	0.00031	0.013	<0.0010	<0.020	0.00041	43	<0.0010	<0.00030	0.015	1.8	<0.00020	<0.020	7.6	0.028	<0.00020	0.0010	<0.10	3.6	<0.00020	0.51	<0.00010	3.2	0.052	42	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.13
	17-Oct-24		0.019	<0.00060	0.00023	0.013	<0.0010	<0.020	0.00048	42	<0.0010	0.00039	0.015	1.6	<0.00020	<0.020	7.1	0.042	<0.00020	0.0012	<0.10	3.7	<0.00020	<0.50	<0.00010	3.2	0.053	37	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.16
		SW-135	0.019	<0.00060	0.00028	0.013	<0.0010	<0.020	0.00046	42	<0.0010	0.0004	0.015	1.6	<0.00020	<0.020	7.1	0.044	<0.00020	0.0013	<0.10	3.7	<0.00020	<0.50	<0.00010	3.2	0.053	37	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.16
	RPD		*0%*	*NC*	*20%*	*0%*	*NC*	*NC*	*4%*	*0%*	*NC*	*3%*	*0%*	*0%*	*NC*	*NC*	*0%*	*5%*	*NC*	*8%*	*NC*	*0%*	*NC*	*NC*	*NC*	*0%*	*0%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*0%*
EB-2	21-Feb-24		0.015	<0.00060	0.00029	0.026	<0.0010	0.024	0.00083	110	<0.0010	0.00073	0.013	<0.060	<0.00020	<0.020	17	0.16	<0.00020	0.0020	<0.10	8.7	<0.00020	1.2	<0.00010	5.8	0.11	100	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.24
	28-May-24		0.17	<0.00060	<0.00020	0.017	<0.0010	<0.020	0.0023	76	<0.0010	0.0043	0.050	1.1	0.00036	<0.020	12	0.43	<0.00020	0.0049	<0.10	5.3	<0.00020	1.1	<0.00010	4.0	0.068	81	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.64
	11-Jun-24		0.033	<0.00060	<0.00020	0.014	<0.0010	<0.020	0.0017	51	<0.0010	0.0029	0.041	0.15	<0.00020	<0.020	8.4	0.26	<0.00020	0.0034	<0.10	4.0	<0.00020	1.2	<0.00010	3.2	0.051	51	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.51
	25-Jun-24		0.042	<0.00060	0.00021	0.013	<0.0010	<0.020	0.0013	38	<0.0010	0.0022	0.029	0.19	<0.00020	<0.020	6.8	0.15	<0.00020	0.0030	<0.10	3.3	<0.00020	1.1	<0.00010	2.9	0.050	36	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.38
	10-Jul-24		0.033	<0.00060	0.00022	0.011	<0.0010	<0.020	0.00082	35	<0.0010	0.00068	0.020	0.29	<0.00020	<0.020	6.5	0.078	<0.00020	0.0018	<0.10	3.1	<0.00020	1.1	<0.00010	2.9	0.039	32	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.20
	23-Jul-24		0.022	<0.00060	0.00025	0.012	<0.0010	<0.020	0.00048	29	<0.0010	<0.00030	0.015	0.41	<0.00020	<0.020	6.2	<0.0040	<0.00020	0.0013	<0.10	2.6	<0.00020	1.0	<0.00010	2.4	0.042	31	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.15
	7-Aug-24		0.020	<0.00060	0.00032	0.012	<0.0010	<0.020	0.00036	37	<0.0010	<0.00030	0.012	0.74	<0.00020	<0.020	6.6	0.0049	<0.00020	0.0010	<0.10	3.2	<0.00020	0.78	<0.00010	2.9	0.046	34	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.093
	20-Aug-24		0.022	<0.00060	0.00035	0.013	<0.0010	<0.020	0.00033	36	<0.0010	<0.00030	0.011	1.3	<0.00020	<0.020	6.4	0.0072	<0.00020	0.0012	<0.10	3.2	<0.00020	0.63	<0.00010	2.9	0.048	31	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.082
	4-Sep-24		0.024	<0.00060	0.00033	0.011	<0.0010	<0.020	0.00030	39	<0.0010	<0.00030	0.012	1.5	<0.00020	<0.020	6.9	<0.0040	0.00021	0.0011	<0.10	3.5	<0.00020	0.52	<0.00010	3.1	0.043	36	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.084
		SW-127	0.022	<0.00060	0.00028	0.013	<0.0010	<0.020	0.00029	41	<0.0010	<0.00030	0.011	1.6	<0.00020	<0.020	6.6	<0.0040	0.00027	0.00093	<0.10	3.7	<0.00020	<0.50	<0.00010	3.2	0.050	32	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.078
	RPD		*9%*	*NC*	*16%*	*17%*	*NC*	*NC*	*3%*	*5%*	*NC*	*NC*	*9%*	*6%*	*NC*	*NC*	*4%*	*NC*	*25%*	*17%*	*NC*	*6%*	*NC*	*NC*	*NC*	*3%*	*15%*	*12%*	*NC*	*NC*	*NC*	*NC*	*NC*	*7%*
	17-Sep-24		0.022	<0.00060	0.00038	0.013	<0.0010	<0.020	0.00029	41	<0.0010	<0.00030	0.010	1.5	<0.00020	<0.020	6.5	<0.0040	0.00024	0.001	<0.10	3.7	<0.00020	<0.50	<0.00010	3.1	0.048	35	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.081
	2-Oct-24		0.033	<0.00060	0.00036	0.013	<0.0010	<0.020	0.00036	43	<0.0010	<0.00030	0.011	1.8	0.0004	<0.020	7.6	0.021	<0.00020	0.0016	<0.10	3.7	<0.00020	<0.50	<0.00010	3.2	0.052	41	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.11
	17-Oct-24		0.018	<0.00060	0.0003	0.013	<0.0010	<0.020	0.00046	44	<0.0010	0.00038	0.013	1.4	<0.00020	<0.020	7.2	0.038	<0.00020	0.0015	<0.10	3.8	<0.00020	<0.50	<0.00010	3.3	0.055	38	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.15
Camp Lake Discharge	21-Feb-24		0.0073	<0.00060	0.00029	0.024	<0.0010	0.022	0.00069	99	<0.0010	0.00047	0.0093	<0.060	<0.00020	<0.020	16	0.15	<0.00020	0.0016	<0.10	8.1	<0.00020	1.2	<0.00010	5.4	0.10	90	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.20
		SW-102	0.0073	<0.00060	0.00030	0.024	<0.0010	<0.020	0.00067	95	<0.0010	0.00047	0.0097	<0.060	<0.00020	<0.020	15	0.16	<0.00020	0.0018	<0.10	7.7	<0.00020	1.2	<0.00010	5.4	0.096	90	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.20
	RPD		*0%*	*NC*	*3%*	*0%*	*NC*	*NC*	*3%*	*4%*	*NC*	*0%*	*4%*	*NC*	*NC*	*NC*	*6%*	*6%*	*NC*	*12%*	*NC*	*5%*	*NC*	*0%*	*NC*	*0%*	*4%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*0%*
	28-May-24		0.072	<0.00060	<0.00020	0.016	<0.0010	<0.020	0.0013	81	<0.0010	0.002	0.032	1.3	<0.00020	<0.020	13	0.33	<0.00020	0.0024	<0.10	5.7	<0.00020	1.0	<0.00010	3.8	0.066	83	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.38
	11-Jun-24		0.030	<0.00060	<0.00020	0.013	<0.0010	<0.020	0.0011	46	<0.0010	0.0015	0.027	0.29	<0.00020	<0.020	7.7	0.18	<0.00020	0.0024	<0.10	3.8	<0.00020	1.1	<0.00010	3.1	0.047	43	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.34
	25-Jun-24		0.044	<0.00060	0.00027	0.010	<0.0010	<0.020	0.00076	26	<0.0010	0.00075	0.028	0.45	<0.00020	<0.020	5.1	0.062	<0.00020	0.0015	<0.10	2.5	<0.00020	0.83	<0.00010	2.4	0.038	20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.24
	10-Jul-24		0.025	<0.00060	0.00031	<0.010	<0.0010	<0.020	0.00036	21	<0.0010	<0.00030	0.016	0.31	<0.00020	<0.020	4.6	<0.0040	<0.00020	0.00094	<0.10	2.2	<0.00020	0.96	<0.00010	2.3	0.029	16	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.11
	23-Jul-24		0.017	<0.00060	0.00029	<0.010	<0.0010	<0.020	0.00030	22	<0.0010	<0.00030	0.015	0.39	<0.00020	<0.020	4.6	<0.0040	<0.00020	0.00086	<0.10	2.2	<0.00020	0.84	<0.00010	2.3	0.033	17	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.092
	7-Aug-24		0.019	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.00026	27	<0.0010	<0.00030	0.013	1.3	0.00022	<0.020	5.2	0.0055	<0.00020	0.00061	<0.10	2.6	<0.00020	0.78	<0.00010	2.4	0.033	21	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.074
	20-Aug-24		0.025	<0.00060	0.00032	0.010	<0.0010	<0.020	0.00025	28	<0.0010	<0.00030	0.012	1.9	<0.00020	<0.020	5.4	0.0052	<0.00020	0.00082	<0.10	2.6	<0.00020	0.69	<0.00010	2.4	0.04	22	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.068
	4-Sep-24		0.026	<0.00060	0.00030	<0.010	<0.0010	<0.020	0.00022	32	<0.0010	<0.00030	0.012	3.0	0.00036	<0.020	6.0	<0.0040	<0.00020	0.00086	<0.10	3.0	<0.00020	0.63	<0.00010	2.7	0.038	27	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.065
	17-Sep-24		0.023	<0.00060	0.00036	0.011	<0.0010	<0.020	0.00021	34	<0.0010	<0.00030	0.0086	3.1	<0.00020	<0.020	5.9	<0.0040	<0.00020	0.00068	<0.10	3.0	0.00027	0.65	<0.00010	2.6	0.039	33	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.051
		SW-129	0.018	<0.00060	0.00050	<0.010	<0.0010	<0.020	0.00023	31	<0.0010	<0.00030	0.0090	2.9	<0.00020	<0.020	5.9	<0.0040	0.00048	0.0010	<0.10	2.9	<0.00020	0.56	<0.00010	2.5	0.039	31	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.063
	RPD		*24%*	*NC*	*33%*	*NC*	*NC*	*NC*	*9%*	*9%*	*NC*	*NC*	*5%*	*7%*	*NC*	*NC*	*0%*	*NC*	*NC*	*38%*	*NC*	*3%*	*NC*	*15%*	*NC*	*4%*	*0%*	*6%*	*NC*	*NC*	*NC*	*NC*	*NC*	*21%*
	2-Oct-24		0.019	<0.00060	0.0004	0.011	<0.0010	<0.020	0.00024	38	<0.0010	<0.00030	0.0081	2.9	<0.00020	<0.020	7.0	0.045	<0.00020	0.00061	<0.10	3.3	<0.00020	0.65	<0.00010	2.8	0.047	37	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.061
	17-Oct-24		0.013	<0.00060	0.00031	0.011	<0.0010	<0.020	0.00026	41	<0.0010	<0.00030	0.0072	2.3	<0.00020	<0.020	7.0	0.054	<0.00020	0.0009	<0.10	3.5	<0.00020	0.60	<0.00010	3.0	0.051	36	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.070
Laboratory Detection Limits			*0.0030*	*0.00060*	*0.00020*	*0.010*	*0.0010*	*0.020*	*0.000020*	*0.30*	*0.0010*	*0.00030*	*0.0010*	*0.060*	*0.00020*	*0.020*	*0.20*	*0.0040*	*0.00020*	*0.00050*	*0.10*	*0.30*	*0.00020*	*0.10*	*0.00010*	*0.50*	*0.020*	*0.20*	*0.00020*	*0.0010*	*0.0010*	*0.00010*	*0.0010*	*0.0030*
Manitoba Water Quality Standards, Objectives, and Guidelines [2]																																			
Protection of Aquatic Life and Wildlife																																			
Tier II Objective - Chronic			-	-	*0.150*	-	-	-	*0.00017* [2a]	-	*0.048* [2a]	-	*0.00574* [2a]	-	*0.00142* [2a]	-	-	-	-	*0.0335* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.0760* [2a]
Tier II Objective - Acute			-	-	*0.340*	-	-	-	*0.00121* [2a]	-	*0.372* [2a]	-	*0.00823* [2a]	-	*0.0365* [2a]	-	-	-	-	*0.3014* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.0754* [2a]

Notes:
"-" = No Data
NC = Not Calculated
RPD = Relative Percent Difference

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.
   a. Calculated as per Manitoba Conservation (2011) using mean total hardness of 59.4 mg/L as $CaCO_3$ as measured in Cold Lake on May 11, 2016.

- Values above Tier II Chronic MWQSOG value.
- Values above Tier II Acute MWQSOG value.
- Values above Tier III MWQSOG guideline.

TABLE 5
DISSOLVED METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																																
			Aluminum (Al) Dissolved	Antimony (Sb) Dissolved	Arsenic (As) Dissolved	Barium (Ba) Dissolved	Beryllium (Be) Dissolved	Boron (B) Dissolved	Cadmium (Cd) Dissolved	Calcium (Ca) Dissolved	Chromium (Cr) Dissolved	Cobalt (Co) Dissolved	Copper (Cu) Dissolved	Iron (Fe) Dissolved	Lead (Pb) Dissolved	Lithium (Li) Dissolved	Magnesium (Mg) Dissolved	Manganese (Mn) Dissolved	Molybdenum (Mo) 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) Dissolved	Thallium (Tl) Dissolved	Tin (Sn) Dissolved	Titanium (Ti) Dissolved	Uranium (U) Dissolved	Vanadium (V) Dissolved	Zinc (Zn) Dissolved
Sherlett Creek																																			
SC-1	21-Feb-24		0.010	<0.00060	0.00063	<0.010	<0.0010	<0.020	0.000064	12	<0.0010	<0.00030	0.0029	0.10	<0.00020	<0.020	3.8	0.025	<0.00020	<0.00050	<0.10	1.9	<0.00020	1.5	<0.00010	5.1	0.031	1.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.047
	28-May-24		0.014	<0.00060	0.0004	<0.010	<0.0010	<0.020	0.00040	8.7	<0.0010	<0.00030	0.014	<0.060	0.00031	<0.020	2.7	0.0096	<0.00020	0.00057	<0.10	1.4	<0.00020	1.1	<0.00010	1.7	0.02	2.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.14
		SW-105	0.014	<0.00060	0.00032	<0.010	<0.0010	<0.020	0.00037	8.6	<0.0010	<0.00030	0.014	<0.060	<0.00020	<0.020	2.7	0.0090	<0.00020	<0.00050	<0.10	1.4	<0.00020	1.1	<0.00010	1.7	0.02	2.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.13
	RPD		*0%*	*NC*	*22%*	*NC*	*NC*	*NC*	*8%*	*1%*	*NC*	*NC*	*0%*	*NC*	*NC*	*NC*	*0%*	*6%*	*NC*	*NC*	*NC*	*0%*	*NC*	*0%*	*NC*	*0%*	*0%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*7%*
	11-Jun-24		0.025	<0.00060	0.00031	<0.010	<0.0010	<0.020	0.00041	8.0	<0.0010	<0.00030	0.017	0.063	<0.00020	<0.020	2.5	0.0076	<0.00020	0.00056	<0.10	1.3	<0.00020	0.97	<0.00010	1.7	<0.020	1.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.14
	25-Jun-24		0.046	<0.00060	0.00040	<0.010	<0.0010	<0.020	0.00093	8.1	<0.0010	0.00033	0.040	0.074	<0.00020	<0.020	2.5	0.014	<0.00020	0.00063	<0.10	1.3	<0.00020	0.92	<0.00010	1.6	0.022	2.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.32
	10-Jul-24		0.019	<0.00060	0.00037	<0.010	<0.0010	<0.020	0.00024	8.9	<0.0010	<0.00030	0.0075	0.11	<0.00020	<0.020	2.9	0.012	<0.00020	0.00052	<0.10	1.4	<0.00020	0.91	<0.00010	1.9	0.021	1.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.077
	23-Jul-24		0.017	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.00013	8.7	<0.0010	<0.00030	0.0068	0.13	<0.00020	<0.020	2.7	0.0091	<0.00020	<0.00050	<0.10	1.3	<0.00020	0.98	<0.00010	1.8	0.022	1.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.045
	7-Aug-24		0.014	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.00022	9.3	<0.0010	<0.00030	0.0091	0.14	<0.00020	<0.020	2.9	0.016	<0.00020	<0.00050	<0.10	1.4	<0.00020	1.1	<0.00010	1.9	0.023	1.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.071
	20-Aug-24		0.022	<0.00060	0.00055	<0.010	<0.0010	<0.020	0.00015	9.4	<0.0010	<0.00030	0.011	0.24	<0.00020	<0.020	3.0	0.014	<0.00020	<0.00050	<0.10	1.5	<0.00020	1.2	<0.00010	4.2	0.026	1.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.069
	4-Sep-24		0.023	<0.00060	0.00050	<0.010	<0.0010	<0.020	0.00011	9.6	<0.0010	<0.00030	0.0057	0.24	<0.00020	<0.020	3.0	0.0087	<0.00020	<0.00050	<0.10	1.6	<0.00020	1.2	<0.00010	2.9	0.023	1.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.066
			0.017	<0.00060	0.00040	<0.010	<0.0010	<0.020	0.000084	9.7	<0.0010	<0.00030	0.0047	0.23	<0.00020	<0.020	2.9	0.0081	<0.00020	<0.00050	<0.10	1.6	<0.00020	1.1	<0.00010	3.0	0.025	1.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.054
	RPD		*30%*	*NC*	*22%*	*NC*	*NC*	*NC*	*27%*	*1%*	*NC*	*NC*	*19%*	*4%*	*NC*	*NC*	*3%*	*7%*	*NC*	*NC*	*NC*	*0%*	*NC*	*9%*	*NC*	*3%*	*8%*	*6%*	*NC*	*NC*	*NC*	*NC*	*NC*	*20%*
	17-Sep-24		0.018	<0.00060	0.00055	<0.010	<0.0010	<0.020	0.00029	9.4	<0.0010	<0.00030	0.0090	0.21	<0.00020	<0.020	2.9	0.012	<0.00020	0.00066	<0.10	1.5	<0.00020	1.0	<0.00010	2.7	0.024	2.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.16
	2-Oct-24		0.022	<0.00060	0.00047	0.01	<0.0010	<0.020	0.00073	10	<0.0010	<0.00030	0.027	0.15	<0.00020	<0.020	3.3	0.027	<0.00020	<0.00050	<0.10	1.8	<0.00020	1.1	<0.00010	3.6	0.026	3.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.32
	17-Oct-24		0.013	<0.00060	0.00045	<0.010	<0.0010	<0.020	0.00039	9.7	<0.0010	<0.00030	0.014	0.14	<0.00020	<0.020	3.1	0.019	<0.00020	0.00056	<0.10	1.6	<0.00020	0.83	<0.00010	3.7	0.026	2.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.15
SC-2	11-Jun-24		0.030	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00089	8.2	<0.0010	0.00031	0.032	0.063	<0.00020	<0.020	2.5	0.015	<0.00020	0.00060	<0.10	1.3	<0.00020	0.98	<0.00010	1.6	<0.020	2.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.30
	2-Oct-24		0.026	<0.00060	0.00046	<0.010	<0.0010	<0.020	0.00097	11	<0.0010	0.00031	0.031	0.18	0.00060	<0.020	3.4	0.036	<0.00020	0.00068	<0.10	1.9	<0.00020	1.2	<0.00010	3.5	0.026	3.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.40
SC-3	11-Jun-24		0.032	<0.00060	0.00028	<0.010	<0.0010	<0.020	0.00097	8.3	<0.0010	0.00040	0.039	0.062	0.00021	<0.020	2.6	0.018	<0.00020	0.00067	<0.10	1.3	<0.00020	0.97	<0.00010	1.6	<0.020	2.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.33
	2-Oct-24		0.028	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.0018	12	<0.0010	0.00060	0.059	0.15	<0.00020	<0.020	3.9	0.052	<0.00020	0.00059	<0.10	2.0	<0.00020	1.4	<0.00010	3.6	0.029	6.1	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.68
SC-4	11-Jun-24		0.016	<0.00060	0.00033	<0.010	<0.0010	<0.020	<0.000020	7.6	<0.0010	<0.00030	0.0030	<0.060	<0.00020	<0.020	2.4	<0.0040	<0.00020	<0.00050	<0.10	1.3	<0.00020	0.90	<0.00010	1.6	<0.020	1.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0053
	2-Oct-24		0.012	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000028	8.9	<0.0010	<0.00030	0.0031	0.14	<0.00020	<0.020	2.9	<0.0040	<0.00020	<0.00050	<0.10	1.5	<0.00020	1.2	<0.00010	2.3	0.023	1.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.012
SC-5	11-Jun-24		0.018	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.000021	8.4	<0.0010	<0.00030	0.0038	0.071	<0.00020	<0.020	2.6	<0.0040	<0.00020	<0.00050	<0.10	1.4	<0.00020	0.95	<0.00010	1.6	<0.020	2.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
	2-Oct-24		0.012	<0.00060	0.00054	<0.010	<0.0010	<0.020	<0.000020	9.0	<0.0010	<0.00030	0.0027	0.11	<0.00020	<0.020	3.0	<0.0040	<0.00020	<0.00050	<0.10	1.4	<0.00020	1.2	<0.00010	1.8	0.023	1.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0034
		SW-133	0.014	<0.00060	0.00043	<0.010	<0.0010	<0.020	<0.000020	9.0	<0.0010	<0.00030	0.0027	0.11	<0.00020	<0.020	3.0	<0.0040	<0.00020	<0.00050	<0.10	1.4	<0.00020	1.2	<0.00010	1.8	0.023	1.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0035
	RPD		*15%*	*NC*	*23%*	*NC*	*NC*	*NC*	*NC*	*0%*	*NC*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*NC*	*NC*	*NC*	*NC*	*0%*	*NC*	*0%*	*NC*	*0%*	*0%*	*7%*	*NC*	*NC*	*NC*	*NC*	*NC*	*3%*
SC-6	11-Jun-24		0.025	<0.00060	0.00033	<0.010	<0.0010	<0.020	0.000040	7.6	<0.0010	<0.00030	0.011	<0.060	<0.00020	<0.020	2.4	<0.0040	<0.00020	<0.00050	<0.10	1.3	<0.00020	0.92	<0.00010	1.5	<0.020	1.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
		SW-109	0.023	<0.00060	0.00037	<0.010	<0.0010	<0.020	0.000039	7.5	<0.0010	<0.00030	0.011	<0.060	<0.00020	<0.020	2.4	<0.0040	<0.00020	<0.00050	<0.10	1.3	<0.00020	0.94	<0.00010	1.5	<0.020	1.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
	RPD		*8%*	*NC*	*11%*	*NC*	*NC*	*NC*	*3%*	*1%*	*NC*	*NC*	*0%*	*NC*	*NC*	*NC*	*0%*	*NC*	*NC*	*NC*	*NC*	*0%*	*NC*	*2%*	*NC*	*0%*	*NC*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*0%*
	2-Oct-24		0.0084	<0.00060	0.00051	<0.010	<0.0010	<0.020	<0.000020	8.8	<0.0010	<0.00030	0.0013	0.095	<0.00020	<0.020	3	<0.0040	<0.00020	<0.00050	<0.10	1.3	<0.00020	1.2	<0.00010	1.8	0.023	1.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
Laboratory Detection Limits			*0.0030*	*0.00060*	*0.00020*	*0.010*	*0.0010*	*0.020*	*0.000020*	*0.30*	*0.0010*	*0.00030*	*0.0010*	*0.060*	*0.00020*	*0.020*	*0.20*	*0.0040*	*0.00020*	*0.00050*	*0.10*	*0.30*	*0.00020*	*0.10*	*0.00010*	*0.50*	*0.020*	*0.20*	*0.00020*	*0.0010*	*0.0010*	*0.00010*	*0.0010*	*0.0030*
Manitoba Water Quality Standards, Objectives, and Guidelines [2]																																			
Protection of Aquatic Life and Wildlife																																			
Tier II Objective - Chronic			-	-	*0.150*	-	-	-	*0.000119 [2a]*	-	*0.0317 [2a]*	-	*0.00369 [2a]*	-	*0.00080 [2a]*	-	-	-	-	*0.0216 [2a]*	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.0490 [2a]*
Tier II Objective - Acute			-	-	*0.340*	-	-	-	*0.000733 [2a]*	-	*0.2435 [2a]*	-	*0.00505 [2a]*	-	*0.02052 [2a]*	-	-	-	-	*0.1946 [2a]*	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.0487 [2a]*

Notes:
"-" = No Data NC = Not Calculated RPD = Relative Percent Difference

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.
   a. Calculated as per Manitoba Conservation (2011) using mean dissolved hardness of 35.42 mg/L as $CaCO_3$ as measured at station SC-1 in 2024.

- Values above Tier II Chronic MWQSOG value.
- Values above Tier II Acute MWQSOG value.
- Values above Tier III MWQSOG guideline.

Sample ID	Date	Field Duplicate Sample ID	Aluminum (Al) Dissolved	Antimony (Sb) Dissolved	Arsenic (As) Dissolved	Barium (Ba) Dissolved	Beryllium (Be) Dissolved	Boron (B) Dissolved	Cadmium (Cd) Dissolved	Calcium (Ca) Dissolved	Chromium (Cr) Dissolved	Cobalt (Co) Dissolved	Copper (Cu) Dissolved	Iron (Fe) Dissolved	Lead (Pb) Dissolved	Lithium (Li) Dissolved	Magnesium (Mg) Dissolved	Manganese (Mn) Dissolved	Molybdenum (Mo) 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) Dissolved	Thallium (Tl) Dissolved	Tin (Sn) Dissolved	Titanium (Ti) Dissolved	Uranium (U) Dissolved	Vanadium (V) Dissolved	Zinc (Zn) Dissolved
Cold Lake																																			
CL-2 sfc	21-Feb-24		0.004	<0.00060	0.00056	0.012	<0.0010	<0.020	0.00007	13	<0.0010	<0.00030	0.0051	<0.060	<0.00020	<0.020	4.0	<0.0040	<0.00020	0.00071	<0.10	1.9	<0.00020	0.61	<0.00010	2.8	0.035	4.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
		SW-101	0.004	<0.00060	0.00056	0.012	<0.0010	<0.020	0.000072	13	<0.0010	<0.00030	0.0050	<0.060	<0.00020	<0.020	4.0	<0.0040	<0.00020	0.00064	<0.10	1.8	<0.00020	0.57	<0.00010	2.7	0.035	4.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.014
	RPD		*0%*	*NC*	*0%*	*0%*	*NC*	*NC*	*3%*	*0%*	*NC*	*NC*	*2%*	*NC*	*NC*	*NC*	*0%*	*NC*	*NC*	*10%*	*NC*	*5%*	*NC*	*7%*	*NC*	*4%*	*0%*	*4%*	*NC*	*NC*	*NC*	*NC*	*NC*	*7%*
	28-May-24		0.010	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.000033	13	<0.0010	<0.00030	0.0045	0.06	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.71	<0.00010	2.2	0.027	7.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.016
	11-Jun-24		0.017	<0.00060	0.00025	<0.010	<0.0010	<0.020	0.000082	15	<0.0010	<0.00030	0.0058	0.09	<0.00020	<0.020	3.5	<0.0040	<0.00020	<0.00050	<0.10	1.6	<0.00020	0.72	<0.00010	2.1	0.032	9.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.030
	25-Jun-24		0.025	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00015	15	<0.0010	<0.00030	0.0083	0.098	<0.00020	<0.020	3.6	0.0042	<0.00020	0.00063	<0.10	1.8	<0.00020	0.81	<0.00010	2.2	0.031	10	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.050
	10-Jul-24		0.024	<0.00060	0.00033	0.010	<0.0010	<0.020	0.00020	17	<0.0010	<0.00030	0.011	0.16	0.00028	<0.020	4.0	<0.0040	<0.00020	0.00086	<0.10	1.9	<0.00020	0.86	<0.00010	2.3	0.028	11	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.068
		SW-114	0.024	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.00016	17	<0.0010	<0.00030	0.0095	0.16	<0.00020	0.022	4.0	<0.0040	<0.00020	0.0010	<0.10	1.9	<0.00020	0.83	<0.00010	2.3	0.028	11	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.057
	RPD		*0%*	*NC*	*14%*	*NC*	*NC*	*NC*	*22%*	*0%*	*NC*	*NC*	*15%*	*0%*	*NC*	*NC*	*0%*	*NC*	*NC*	*15%*	*NC*	*0%*	*NC*	*4%*	*NC*	*0%*	*0%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*18%*
	23-Jul-24		0.018	<0.00060	0.00037	<0.010	<0.0010	<0.020	0.00013	16	<0.0010	<0.00030	0.0091	0.12	<0.00020	<0.020	3.9	<0.0040	<0.00020	0.0006	<0.10	1.8	<0.00020	0.74	<0.00010	2.3	0.03	9.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.048
	7-Aug-24		0.017	<0.00060	0.00043	0.010	<0.0010	<0.020	0.000085	16	<0.0010	<0.00030	0.0077	0.16	<0.00020	<0.020	4.0	<0.0040	<0.00020	<0.00050	<0.10	1.9	<0.00020	0.69	<0.00010	2.3	0.031	9.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.032
	20-Aug-24		0.016	<0.00060	0.00041	0.011	<0.0010	<0.020	0.000057	15	<0.0010	<0.00030	0.0069	0.17	<0.00020	<0.020	3.8	<0.0040	<0.00020	0.00057	<0.10	1.8	<0.00020	0.62	<0.00010	2.2	0.032	8.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.023
	4-Sep-24		0.020	<0.00060	0.0005	<0.010	<0.0010	<0.020	0.000035	15	<0.0010	<0.00030	0.0068	0.16	<0.00020	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.61	<0.00010	2.3	0.031	8.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.020
	17-Sep-24		0.012	<0.00060	0.00049	<0.010	<0.0010	<0.020	0.000024	14	<0.0010	<0.00030	0.0055	0.17	<0.00020	<0.020	3.5	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.6	<0.00010	2.2	0.028	7.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.012
	2-Oct-24		0.015	<0.00060	0.00037	<0.010	<0.0010	<0.020	<0.000020	15	<0.0010	<0.00030	0.0055	0.28	<0.00020	<0.020	3.9	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.79	<0.00010	2.2	0.031	8.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0091
	17-Oct-24		0.014	<0.00060	0.00051	0.010	<0.0010	<0.020	<0.000020	15	<0.0010	<0.00030	0.0058	0.33	<0.00020	<0.020	3.8	<0.0040	<0.00020	0.00053	<0.10	1.8	<0.00020	0.71	<0.00010	2.3	0.033	7.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
CL-2 btm	21-Feb-24		0.011	<0.00060	0.00039	0.011	<0.0010	<0.020	0.000051	17	<0.0010	<0.00030	0.0052	0.24	<0.00020	<0.020	4.2	0.014	<0.00020	0.00067	<0.10	1.9	<0.00020	1.1	<0.00010	2.5	0.034	9.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.017
	28-May-24		0.011	<0.00060	0.00046	<0.010	<0.0010	<0.020	0.000041	13	<0.0010	<0.00030	0.0044	0.076	<0.00020	<0.020	3.5	<0.0040	<0.00020	0.00051	<0.10	1.7	<0.00020	0.73	<0.00010	2.2	0.027	7.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.017
	11-Jun-24		0.016	<0.00060	0.00027	<0.010	<0.0010	<0.020	0.000056	14	<0.0010	<0.00030	0.0052	0.076	<0.00020	<0.020	3.4	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.61	<0.00010	2.1	0.031	7.1	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.024
		SW-107	0.015	<0.00060	0.00035	<0.010	<0.0010	<0.020	0.000072	14	<0.0010	<0.00030	0.0057	0.094	<0.00020	<0.020	3.5	<0.0040	<0.00020	0.00055	<0.10	1.6	<0.00020	0.75	<0.00010	2.2	0.027	8.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.028
	RPD		*6%*	*NC*	*26%*	*NC*	*NC*	*NC*	*25%*	*0%*	*NC*	*NC*	*9%*	*21%*	*NC*	*NC*	*3%*	*NC*	*NC*	*NC*	*NC*	*6%*	*NC*	*21%*	*NC*	*5%*	*14%*	*18%*	*NC*	*NC*	*NC*	*NC*	*NC*	*15%*
	25-Jun-24		0.020	<0.00060	0.00039	<0.010	<0.0010	<0.020	0.00010	14	<0.0010	<0.00030	0.0069	0.13	<0.00020	<0.020	3.4	0.0043	<0.00020	0.00068	<0.10	1.7	<0.00020	0.75	<0.00010	2.1	0.03	8.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.04
	10-Jul-24		0.022	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.00017	16	<0.0010	<0.00030	0.011	0.12	<0.00020	<0.020	4.0	<0.0040	<0.00020	0.00068	<0.10	1.9	<0.00020	0.83	<0.00010	2.3	0.027	11	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.059
	23-Jul-24		0.017	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.00011	16	<0.0010	<0.00030	0.0081	0.13	<0.00020	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.88	<0.00010	2.2	0.03	9.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.045
	7-Aug-24		0.019	<0.00060	0.00042	0.010	<0.0010	<0.020	0.00012	15	<0.0010	<0.00030	0.0070	0.22	<0.00020	<0.020	3.8	0.014	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.90	<0.00010	2.2	0.031	9.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.036
	20-Aug-24		0.018	<0.00060	0.00035	0.014	<0.0010	0.023	0.000061	14	<0.0010	<0.00030	0.0068	0.17	<0.00020	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.65	<0.00010	2.1	0.032	9.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.023
	4-Sep-24		0.019	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.000036	15	<0.0010	<0.00030	0.0078	0.19	<0.00020	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.9	<0.00020	0.65	<0.00010	2.3	0.032	8.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.029
	17-Sep-24		0.013	<0.00060	0.00039	<0.010	<0.0010	<0.020	0.000025	14	<0.0010	<0.00030	0.0056	0.19	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.61	<0.00010	2.2	0.028	7.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.012
	2-Oct-24		0.014	<0.00060	0.00038	<0.010	<0.0010	<0.020	<0.000020	15	<0.0010	<0.00030	0.0056	0.34	<0.00020	<0.020	3.9	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.79	<0.00010	2.3	0.032	8.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0093
	17-Oct-24		0.018	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000023	15	<0.0010	<0.00030	0.0066	0.29	<0.00020	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.7	<0.00010	2.3	0.033	7.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0088

TABLE 5
DISSOLVED METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																													
			Aluminum (Al) Dissolved	Antimony (Sb) Dissolved	Arsenic (As) Dissolved	Barium (Ba) Dissolved	Beryllium (Be) Dissolved	Boron (B) Dissolved	Cadmium (Cd) Dissolved	Calcium (Ca) Dissolved	Chromium (Cr) Dissolved	Cobalt (Co) Dissolved	Copper (Cu) Dissolved	Iron (Fe) Dissolved	Lead (Pb) Dissolved	Lithium (Li) Dissolved	Magnesium (Mg) Dissolved	Manganese (Mn) Dissolved	Molybdenum (Mo) 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) Dissolved	Thallium (Tl) Dissolved	Tin (Sn) Dissolved	Titanium (Ti) Dissolved	Uranium (U) Dissolved	Vanadium (V) Dissolved	Zinc (Zn) Dissolved
CL-3 sfc	21-Feb-24		0.0036	<0.00060	0.00062	0.010	<0.0010	<0.020	0.000023	14	<0.0010	<0.00030	0.0035	<0.060	<0.00020	<0.020	4.2	<0.0040	<0.00020	<0.00050	<0.10	2.0	<0.00020	0.55	<0.00010	2.7	0.037	4.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0097
	28-May-24		0.0097	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000058	15	<0.0010	<0.00030	0.0051	0.062	<0.00020	<0.020	3.8	<0.0040	<0.00020	0.00057	<0.10	1.8	<0.00020	0.69	<0.00010	2.2	0.028	8.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.022
	11-Jun-24		0.018	<0.00060	0.0003	0.010	<0.0010	<0.020	0.00038	26	<0.0010	0.00033	0.013	0.19	<0.00020	<0.020	5.0	0.058	<0.00020	0.00110	<0.10	2.4	<0.00020	0.85	<0.00010	2.5	0.034	21	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.12
	25-Jun-24		0.035	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00051	22	<0.0010	0.00036	0.019	0.33	<0.00020	<0.020	4.5	0.041	<0.00020	0.00110	<0.10	2.3	<0.00020	0.80	<0.00010	2.3	0.035	17	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.15
	10-Jul-24		0.033	<0.00060	0.00035	<0.010	<0.0010	<0.020	0.00026	18	<0.0010	<0.00030	0.012	0.23	<0.00020	<0.020	4.2	<0.0040	<0.00020	0.00077	<0.10	2.0	<0.00020	0.87	<0.00010	2.3	0.028	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.081
	23-Jul-24		0.019	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.00021	19	<0.0010	<0.00030	0.012	0.25	<0.00020	<0.020	4.2	<0.0040	<0.00020	0.00062	<0.10	2.0	<0.00020	0.74	<0.00010	2.3	0.031	13	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.073
	7-Aug-24		0.018	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000082	16	<0.0010	<0.00030	0.0076	0.26	<0.00020	<0.020	4.0	<0.0040	<0.00020	<0.00050	<0.10	1.9	<0.00020	0.63	<0.00010	2.3	0.031	10	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.030
	20-Aug-24		0.023	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000091	16	<0.0010	<0.00030	0.0078	0.47	<0.00020	<0.020	4.6	<0.0040	<0.00020	0.00057	<0.10	1.8	<0.00020	0.63	<0.00010	2.7	0.032	13	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.031
			0.017	<0.00060	0.00031	0.010	<0.0010	<0.020	0.000083	17	<0.0010	<0.00030	0.0076	0.47	<0.00020	<0.020	4.1	<0.0040	<0.00020	0.00063	<0.10	1.9	<0.00020	0.56	<0.00010	2.2	0.033	11	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.029
	RPD		*30%*	*NC*	*28%*	*NC*	*NC*	*NC*	*9%*	*6%*	*NC*	*NC*	*3%*	*0%*	*NC*	*NC*	*11%*	*NC*	*NC*	*10%*	*NC*	*5%*	*NC*	*12%*	*NC*	*20%*	*3%*	*17%*	*NC*	*NC*	*NC*	*NC*	*NC*	*7%*
	4-Sep-24		0.011	<0.00060	0.00037	0.010	<0.0010	<0.020	0.000031	16	<0.0010	<0.00030	0.0058	0.24	0.00022	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	1.9	<0.00020	0.57	<0.00010	2.3	0.032	8.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
	17-Sep-24		0.012	<0.00060	0.00038	0.010	<0.0010	<0.020	0.000034	15	<0.0010	<0.00030	0.0054	0.25	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.64	<0.00010	2.2	0.03	8.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.012
		SW-130	0.014	<0.00060	0.00045	<0.010	<0.0010	<0.020	0.000035	16	<0.0010	<0.00030	0.0056	0.23	<0.00020	<0.020	3.6	<0.0040	<0.00020	0.00066	<0.10	2.0	<0.00020	0.59	<0.00010	2.3	0.029	8.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
	RPD		*15%*	*NC*	*17%*	*NC*	*NC*	*NC*	*3%*	*6%*	*NC*	*NC*	*4%*	*8%*	*NC*	*NC*	*0%*	*NC*	*NC*	*NC*	*NC*	*11%*	*NC*	*8%*	*NC*	*4%*	*3%*	*1%*	*NC*	*NC*	*NC*	*NC*	*NC*	*22%*
	2-Oct-24		0.019	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.000028	15	<0.0010	<0.00030	0.0056	0.33	<0.00020	<0.020	4.1	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.78	<0.00010	2.3	0.032	8.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
	17-Oct-24		0.017	<0.00060	0.00038	<0.010	<0.0010	<0.020	<0.000020	14	<0.0010	<0.00030	0.0054	0.28	<0.00020	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.63	<0.00010	2.2	0.032	7.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
CL-3 btm	21-Feb-24		0.0032	<0.00060	0.00061	0.010	<0.0010	<0.020	0.000024	13	<0.0010	<0.00030	0.0032	<0.060	<0.00020	<0.020	4.2	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.55	<0.00010	2.5	0.037	4.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0088
	28-May-24		0.010	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000069	15	<0.0010	<0.00030	0.0052	0.074	<0.00020	<0.020	3.8	0.0067	<0.00020	0.00070	<0.10	1.8	<0.00020	0.70	<0.00010	2.3	0.028	8.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.025
		SW-104	0.011	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.000072	15	<0.0010	<0.00030	0.0050	0.079	<0.00020	<0.020	3.8	0.0081	<0.00020	0.00066	<0.10	1.8	<0.00020	0.71	<0.00010	2.2	0.028	9.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.026
	RPD		*10%*	*NC*	*5%*	*NC*	*NC*	*NC*	*4%*	*0%*	*NC*	*NC*	*4%*	*7%*	*NC*	*NC*	*0%*	*19%*	*NC*	*6%*	*NC*	*0%*	*NC*	*1%*	*NC*	*4%*	*0%*	*4%*	*NC*	*NC*	*NC*	*NC*	*NC*	*4%*
	11-Jun-24		0.024	<0.00060	0.00026	0.011	<0.0010	<0.020	0.00070	34	<0.0010	0.00089	0.020	0.24	<0.00020	<0.020	6.0	0.11	<0.00020	0.0015	<0.10	2.9	<0.00020	0.95	<0.00010	2.7	0.039	31	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.22
	25-Jun-24		0.042	<0.00060	0.00026	0.010	<0.0010	<0.020	0.00051	22	<0.0010	0.00039	0.021	0.35	<0.00020	<0.020	4.4	0.044	<0.00020	0.0011	<0.10	2.1	<0.00020	0.88	<0.00010	2.3	0.035	18	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.17
	10-Jul-24		0.029	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00020	16	<0.0010	<0.00030	0.011	0.16	<0.00020	<0.020	3.9	<0.0040	<0.00020	0.00069	<0.10	1.8	<0.00020	0.83	<0.00010	2.3	0.027	9.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.063
	23-Jul-24		0.027	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.00015	16	<0.0010	<0.00030	0.0099	0.15	<0.00020	<0.020	3.9	<0.0040	<0.00020	0.00061	<0.10	1.8	<0.00020	0.68	<0.00010	2.2	0.03	11	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.050
		SW-117	0.019	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.00014	17	<0.0010	<0.00030	0.010	0.15	<0.00020	<0.020	4.0	<0.0040	<0.00020	0.00063	<0.10	1.9	<0.00020	0.70	<0.00010	2.3	0.03	10	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.049
	RPD		*35%*	*NC*	*7%*	*NC*	*NC*	*NC*	*5%*	*6%*	*NC*	*NC*	*1%*	*0%*	*NC*	*NC*	*3%*	*NC*	*NC*	*3%*	*NC*	*5%*	*NC*	*3%*	*NC*	*4%*	*0%*	*10%*	*NC*	*NC*	*NC*	*NC*	*NC*	*2%*
	7-Aug-24		0.020	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000094	16	<0.0010	<0.00030	0.0074	0.27	<0.00020	<0.020	4.0	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.63	<0.00010	2.3	0.031	10	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.029
	20-Aug-24		0.024	<0.00060	0.00043	0.011	<0.0010	<0.020	0.000093	18	<0.0010	<0.00030	0.0079	0.49	<0.00020	<0.020	4.2	<0.0040	<0.00020	0.00130	<0.10	2.0	<0.00020	0.58	<0.00010	2.3	0.034	11	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.031
	4-Sep-24		0.019	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.000045	16	<0.0010	<0.00030	0.0074	0.24	<0.00020	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	1.9	<0.00020	0.58	<0.00010	2.3	0.032	8.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.019
	17-Sep-24		0.011	<0.00060	0.00037	<0.010	<0.0010	<0.020	0.000027	15	<0.0010	<0.00030	0.0051	0.21	<0.00020	0.038	3.9	<0.0040	<0.00020	0.00065	<0.10	1.8	<0.00020	0.64	<0.00010	2.3	0.029	8.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.014
	2-Oct-24		0.018	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.000026	15	<0.0010	<0.00030	0.0056	0.33	<0.00020	<0.020	4.000	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.77	<0.00010	2.3	0.032	8.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
	17-Oct-24		0.016	<0.00060	0.00042	<0.010	<0.0010	<0.020	<0.000020	14	<0.0010	<0.00030	0.0059	0.28	<0.00020	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.63	<0.00010	2.3	0.032	7.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
CL-4 sfc	21-Feb-24		0.0033	<0.00060	0.0005	0.011	<0.0010	<0.020	0.000063	13	<0.0010	<0.00030	0.0048	<0.060	<0.00020	<0.020	4.1	<0.0040	<0.00020	<0.00050	<0.10	2.0	<0.00020	0.57	<0.00010	2.9	0.035	4.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.013
	28-May-24		0.0093	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.000039	13	<0.0010	<0.00030	0.0046	0.061	<0.00020	<0.020	3.5	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.69	<0.00010	2.2	0.027	7.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.017
		SW-103	0.013	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.000041	13	<0.0010	<0.00030	0.0046	<0.060	<0.00020	<0.020	3.5	<0.0040	<0.00020	0.0012	<0.10	1.7	<0.00020	0.68	<0.00010	2.2	0.027	7.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.019
	RPD		*33%*	*NC*	*2%*	*NC*	*NC*	*NC*	*5%*	*0%*	*NC*	*NC*	*0%*	*NC*	*NC*	*NC*	*0%*	*NC*	*NC*	*NC*	*NC*	*0%*	*NC*	*1%*	*NC*	*0%*	*0%*	*1%*	*NC*	*NC*	*NC*	*NC*	*NC*	*11%*
	11-Jun-24		0.014	<0.00060	0.00022	<0.010	<0.0010	<0.020	0.00013	17	<0.0010	<0.00030	0.0071	0.087	<0.00020	<0.020	3.8	0.011	<0.00020	0.00055	<0.10	1.8	<0.00020	0.64	<0.00010	2.2	0.033	10	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.046
	25-Jun-24		0.029	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00022	16	<0.0010	<0.00030	0.011	0.14	<0.00020	0.025	3.7	0.013	<0.00020	0.00071	<0.10	1.8	<0.00020	0.76	<0.00010	2.1	0.031	11	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.073
	10-Jul-24		0.026	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.00013	14	<0.0010	<0.00030	0.0095	0.11	<0.00020	<0.020	3.7	<0.0040	<0.00020	0.00059	<0.10	1.7	<0.00020	0.76	<0.00010	2.2	0.026	8.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.049
	23-Jul-24		0.017	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.00011	15	<0.0010	<0.00030	0.0082	0.10	<0.00020	<0.020	3.8	<0.0040	<0.00020	0.00056	<0.10	1.8	<0.00020	0.65	<0.00010	2.2	0.03	8.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.041
	7-Aug-24		0.017	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000076	16	<0.0010	<0.00030	0.0073	0.17	<0.00020	<0.020	3.9	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.61	<0.00010	2.3	0.031	9.6	<0.00020	<0.0010	0.001	<0.00010	<0.0010	0.029
	20-Aug-24		0.017	<0.00060	0.0004	0.010	<0.0010	<0.020	0.000045	14	<0.0010	<0.00030	0.0064	0.13	<0.00020	<0.020	3.7	<0.0040	<0.00020	0.00052	<0.10	1.7	<0.00020	0.51	<0.00010	2.2	0.032	7.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.021
	4-Sep-24		0.012	<0.00060	0.00041	0.010	<0.0010	<0.020	0.000032	15	<0.0010	<0.00030	0.0063	0.15	<0.00020	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	2.0	<0.00020	0.57	<0.00010	2.3	0.032	7.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.016
	17-Sep-24		0.011	<0.00060	0.00052	<0.010	<0.0010	<0.020	0.000027	14	<0.0010	<0.00030	0.0052	0.13	<0.00020	<0.020	3.4	<0.0040	0.00039	0.00062	<0.10	1.9	<0.00020	0.58	<0.00010	2.2	0.028	7.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.013
	2-Oct-24		0.014	<0.00060	0.00040	<0.010	<0.0010	<0.020	0.000020	15	<0.0010	<0.00030	0.0053	0.24	<0.00020	<0.020	4.0	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.72	<0.00010	2.3	0.032	7.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0092
		SW-131	0.015	<0.00060	0.00042	<0.010	<0.0010	<0.020	<0.000020	14	<0.0010	<0.00030	0.0053	0.22	<0.00020	<0.020	4.0	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.70	<0.00010	2.3	0.032	7.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0094
	RPD		*7%*	*NC*	*5%*	*NC*	*NC*	*NC*	*NC*	*7%*	*NC*	*NC*	*0%*	*9%*	*NC*	*NC*	*0%*	*NC*	*NC*	*NC*	*NC*	*6%*	*NC*	*3%*	*NC*	*0%*	*0%*	*5%*	*NC*	*NC*	*NC*	*NC*	*NC*	*2%*
	17-Oct-24		0.014	<0.00060	0.00043	0.010	<0.0010	<0.020	<0.000020	14	<0.0010	<0.00030	0.0051	0.22	0.00088	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.6	<0.00010	2.3	0.032	6.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
CL-4 btm	21-Feb-24		0.013	<0.00060	0.00042	0.010	<0.0010	<0.020	0.000036	17	<0.0010	<0.00030	0.0054	0.30	<0.00020	<0.020	4.2	0.0082	<0.00020	<0.00050	<0.10	1.9	<0.00020	1.3	<0.00010	2.5	0.034	10	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.017
	28-May-24		0.011	<0.00060	0.0005	<0.010	<0.0010	<0.020	0.000028	11	<0.0010	<0.00030	0.0041	0.10	<0.00020	<0.020	3.3	0.0068	<0.00020	0.00050	<0.10	1.6	<0.00020	0.70	<0.00010	2.1	0.026	5.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
	11-Jun-24		0.014	<0.00060	0.00025	<0.010	<0.0010	<0.020	0.000084	16	<0.0010	<0.00030	0.0055	0.12	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.73	<0.00010	2.1	0.032	9.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.032
	25-Jun-24		0.022	<0.00060	0.00036	0.010	<0.0010	<0.020	0.00009	13	<0.0010	<0.00030	0.0061	0.27	<0.00020	<0.020	3.7	0.020	<0.00020	0.00054	<0.10	1.7	<0.00020	0.92	<0.00010	2	0.03	8.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.035
	10-Jul-24		0.017	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.000089	15	<0.0010	<0.00030	0.0058	0.21	<0.00020	<0.020	3.8	0.0088	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.94	<0.00010	2.3	0.028	9.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.032
	23-Jul-24		0.020	<0.00060	0.00031	<0.010	<0.0010	<0.020	0.00011	15	<0.0010	<0.00030	0.0077	0.20	<0.00020	<0.020	3.8	0.012	<0.00020	0.00054	<0.10	1.8	<0.00020	1.1	<0.00010	2.3	0.03	9.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.035
		SW-118	0.023	<0.00060	0.00031	0.011	<0.0010	<0.020	0.00012	14	<0.0010	<0.00030	0.0076	0.20	<0.00020	<0.020	3.3	0.012	<0.00020	0.00053	<0.10	1.7	<0.00020	0.99	<0.00010	2.1	0.029	8.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.042
	RPD		*14%*	*NC*	*0%*	*NC*	*NC*	*NC*	*5%*	*7%*	*NC*	*NC*	*1%*	*NC*	*NC*	*NC*	*14%*	*0%*	*NC*	*2%*	*NC*	*6%*	*NC*	*11%*	*NC*	*9%*	*3%*	*9%*	*NC*	*NC*	*NC*	*NC*	*NC*	*18%*
	7-Aug-24		0.017	<0.00060	0.00042	0.011	<0.0010	<0.020	0.000079	16	<0.0010	<0.00030	0.0070	0.17	<0.00020	<0.020	4.0	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.63	<0.00010	2.3	0.031	9.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.032
	20-Aug-24		0.018	<0.00060	0.00028	0.011	<0.0010	<0.020	0.000095	14	<0.0010	<0.00030	0.0059	0.44	0.0003	<0.020	3.8	0.27	<0.00020	0.00059	<0.10	1.8	<0.00020	1.2	<0.00010	2.5	0.03	8.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.032
	4-Sep-24		0.012	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.000025	15	<0.0010	<0.00030	0.0061	0.18	<0.00020	<0.020	3.7	<0.0040	<0.00020	0.00056	<0.10	1.8	<0.00020	0.57	<0.00010	2.2	0.031	7.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
	17-Sep-24		0.011	<0.00060	0.0005	<0.010	<0.0010	<0.020	0.000022	13	<0.0010	<0.00030	0.0052	0.15	<0.00020	<0.020	3.5	<0.0040	<0.00020	0.00053	<0.10	1.8	<0.00020	0.57	<0.00010	2.1	0.028	6.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
	2-Oct-24		0.017	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.000024	14	<0.0010	<0.00030	0.0059	0.23	<0.00020	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.73	<0.00010	2.2	0.031	7.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
	17-Oct-24		0.015	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.000020	14	<0.0010	<0.00030	0.0054	0.20	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.58	<0.00010	2.2	0.032	6.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
CL-5 sfc	21-Feb-24		0.0056	<0.00060	0.00059	0.011	<0.0010	<0.020	0.000090	13	<0.0010	<0.00030	0.0045	<0.060	0.00042	<0.020	4.0	<0.0040	<0.00020	0.00056	<0.10	1.8	<0.00020	0.58	<0.00010	2.6	0.034	4.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.016
	28-May-24		0.0091	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.000036	12	<0.0010	<0.00030	0.0051	<0.060	0.00026	<0.020	3.4	<0.0040	<0.00020	0.00050	<0.10	1.7	<0.00020	0.67	<0.00010	2.2	0.026	6.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.019
	11-Jun-24		0.018	<0.00060	0.00026	<0.010	<0.0010	<0.020	0.000073	12	<0.0010	<0.00030	0.0061	<0.060	<0.00020	<0.020	3.1	<0.0040	<0.00020	<0.00050	<0.10	1.4	<0.00020	0.60	<0.00010	2	0.029	5.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.030
	25-Jun-24		0.034	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.00017	14	<0.0010	<0.00030	0.010	0.11	<0.00020	<0.020	3.5	0.0091	<0.00020	0.00074	<0.10	1.7	<0.00020	0.71	<0.00010	2.1	0.03	8.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.061
	10-Jul-24		0.027	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000099	14	<0.0010	<0.00030	0.0072	0.11	<0.00020	<0.020	3.6	<0.0040	<0.00020	0.00068	<0.10	1.7	<0.00020	0.72	<0.00010	2.2	0.026	7.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.037
	23-Jul-24		0.019	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.000087	15	<0.0010	<0.00030	0.0075	0.10	<0.00020	<0.020	3.7	<0.0040	<0.00020	0.00054	<0.10	1.7	<0.00020	0.58	<0.00010	2.2	0.029	8.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.036
	7-Aug-24		0.023	<0.00060	0.00045	0.010	<0.0010	<0.020	0.000068	15	<0.0010	<0.00030	0.0066	0.14	<0.00020	<0.020	3.8	<0.0040	0.00042	<0.00050	<0.10	1.8	<0.00020	0.55	<0.00010	2.2	0.03	8.6	<0.00020	<0.0010	0.0013	<0.00010	<0.0010	0.026
	20-Aug-24		0.020	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.000048	14	<0.0010	<0.00030	0.0062	0.14	<0.00020	<0.020	3.7	<0.0040	<0.00020	0.00056	<0.10	1.8	<0.00020	<0.50	<0.00010	2.2	0.032	7.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.020
	4-Sep-24		0.022	<0.00060	0.00037	0.010	<0.0010	<0.020	0.000028	14	<0.0010	<0.00030	0.0061	0.098	<0.00020	<0.020	3.6	<0.0040	0.0019	<0.00050	<0.10	1.8	<0.00020	0.52	<0.00010	2.3	0.031	7.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
			0.012	<0.00060	0.00037	<0.010	<0.0010	<0.020	0.000024	15	<0.0010	<0.00030	0.0063	0.11	<0.00020	<0.020	3.6	<0.0040	0.0013	<0.00050	<0.10	1.8	<0.00020	0.53	<0.00010	2.2	0.031	7.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.014
	RPD		*59%*	*NC*	*0%*	*NC*	*NC*	*NC*	*15%*	*7%*	*NC*	*NC*	*3%*	*12%*	*NC*	*NC*	*0%*	*NC*	*38%*	*NC*	*NC*	*0%*	*NC*	*2%*	*NC*	*4%*	*0%*	*3%*	*NC*	*NC*	*NC*	*NC*	*NC*	*7%*
	17-Sep-24		0.011	<0.00060	0.0004	<0.010	<0.0010	<0.020	<0.000020	13	<0.0010	<0.00030	0.0048	0.10	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.54	<0.00010	2.1	0.029	7.1	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
	2-Oct-24		0.014	<0.00060	0.0005	<0.010	<0.0010	<0.020	<0.000020	14	<0.0010	<0.00030	0.0051	0.23	<0.00020	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.65	<0.00010	2.2	0.031	7.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0082
	17-Oct-24		0.014	<0.00060	0.00042	<0.010	<0.0010	<0.020	<0.000020	13	<0.0010	<0.00030	0.0048	0.14	<0.00020	<0.020	3.5	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.52	<0.00010	2.2	0.031	6.1	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.009
CL-5 btm	21-Feb-24		0.005	<0.00060	0.00049	0.011	<0.0010	<0.020	0.000028	13	<0.0010	<0.00030	0.0039	<0.060	<0.00020	<0.020	3.9	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.68	<0.00010	2.6	0.033	4.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
	28-May-24		0.0099	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.000033	12	<0.0010	<0.00030	0.0052	<0.060	0.00059	<0.020	3.4	<0.0040	<0.00020	0.00053	<0.10	1.6	<0.00020	0.66	<0.00010	2.2	0.026	5.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.017
	11-Jun-24		0.016	<0.00060	0.00032	<0.010	<0.0010	<0.020	0.000066	13	<0.0010	<0.00030	0.0055	0.063	<0.00020	<0.020	3.2	<0.0040	<0.00020	<0.00050	<0.10	1.5	<0.00020	0.60	<0.00010	2.1	0.03	6.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.026
	25-Jun-24		0.024	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.000095	14	<0.0010	<0.00030	0.0076	0.14	<0.00020	<0.020	3.4	0.011	<0.00020	0.00056	<0.10	1.7	<0.00020	0.81	<0.00010	2.1	0.03	8.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.038
	10-Jul-24		0.029	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.00013	14	<0.0010	<0.00030	0.0096	0.11	<0.00020	<0.020	3.7	<0.0040	<0.00020	0.00060	<0.10	1.7	<0.00020	0.76	<0.00010	2.2	0.026	7.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.048
		SW-113	0.029	<0.00060	0.00037	<0.010	<0.0010	<0.020	0.00012	14	<0.0010	<0.00030	0.0097	0.12	<0.00020	<0.020	3.7	<0.0040	<0.00020	0.00065	<0.10	1.7	<0.00020	0.75	<0.00010	2.2	0.026	7.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.049
	RPD		*0%*	*NC*	*15%*	*NC*	*NC*	*NC*	*8%*	*0%*	*NC*	*NC*	*1%*	*9%*	*NC*	*NC*	*0%*	*NC*	*NC*	*8%*	*NC*	*0%*	*NC*	*1%*	*NC*	*0%*	*0%*	*1%*	*NC*	*NC*	*NC*	*NC*	*NC*	*2%*
	23-Jul-24		0.025	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000098	14	<0.0010	<0.00030	0.0082	0.11	<0.00020	<0.020	3.6	<0.0040	<0.00020	0.00052	<0.10	1.7	<0.00020	0.61	<0.00010	2.1	0.029	8.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.039
	7-Aug-24		0.018	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.000067	15	<0.0010	<0.00030	0.0069	0.14	<0.00020	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.55	<0.00010	2.2	0.03	8.5	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.025
	20-Aug-24		0.022	<0.00060	0.00043	0.010	<0.0010	<0.020	0.000051	15	<0.0010	<0.00030	0.0075	0.20	<0.00020	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.76	<0.00010	2.2	0.032	8.1	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.028
	4-Sep-24		0.014	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.000023	14	<0.0010	<0.00030	0.0075	0.13	<0.00020	<0.020	3.6	<0.0040	0.00026	<0.00050	<0.10	1.8	<0.00020	0.55	<0.00010	2.3	0.032	7.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
	17-Sep-24		0.011	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.000022	13	<0.0010	<0.00030	0.0054	0.12	<0.00020	<0.020	3.5	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.55	<0.00010	2.1	0.027	6.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
	2-Oct-24		0.016	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000022	14	<0.0010	<0.00030	0.0054	0.20	<0.00020	<0.020	3.9	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.72	<0.00010	2.3	0.031	7.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0092
	17-Oct-24		0.016	<0.00060	0.00047	0.011	<0.0010	<0.020	<0.000020	13	<0.0010	<0.00030	0.0048	0.14	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.60	<0.00010	2.3	0.032	6.1	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0087

TABLE 5
DISSOLVED METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																															
			Aluminum (Al) Dissolved	Antimony (Sb) Dissolved	Arsenic (As) Dissolved	Barium (Ba) Dissolved	Beryllium (Be) Dissolved	Boron (B) Dissolved	Cadmium (Cd) Dissolved	Calcium (Ca) Dissolved	Chromium (Cr) Dissolved	Cobalt (Co) Dissolved	Copper (Cu) Dissolved	Iron (Fe) Dissolved	Lead (Pb) Dissolved	Lithium (Li) Dissolved	Magnesium (Mg) Dissolved	Manganese (Mn) Dissolved	Molybdenum (Mo) 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) Dissolved	Thallium (Tl) Dissolved	Tin (Sn) Dissolved	Titanium (Ti) Dissolved	Uranium (U) Dissolved	Vanadium (V) Dissolved	Zinc (Zn) Dissolved
CL-6 sfc	21-Feb-24		0.0036	<0.00060	0.00065	0.011	<0.0010	<0.020	0.000029	14	<0.0010	<0.00030	0.0041	<0.060	<0.00020	<0.020	4.2	<0.0040	<0.00020	<0.00050	<0.10	2.0	<0.00020	0.54	<0.00010	2.8	0.036	4.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.013
	28-May-24		0.015	<0.00060	0.00046	<0.010	<0.0010	<0.020	<0.000020	11	<0.0010	<0.00030	0.0037	<0.060	<0.00020	<0.020	3.3	<0.0040	<0.00020	<0.00050	<0.10	1.6	<0.00020	0.60	<0.00010	2.1	0.025	4.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
	11-Jun-24		0.018	<0.00060	0.00031	<0.010	<0.0010	<0.020	0.000028	11	<0.0010	<0.00030	0.0034	<0.060	<0.00020	<0.020	2.9	<0.0040	<0.00020	<0.00050	<0.10	1.4	<0.00020	<0.50	<0.00010	2	0.028	4.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
	25-Jun-24		0.033	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.00011	13	<0.0010	<0.00030	0.0078	0.080	<0.00020	<0.020	3.5	0.0061	<0.00020	0.00063	<0.10	1.7	<0.00020	0.67	<0.00010	2.1	0.029	6.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.041
	10-Jul-24		0.027	<0.00060	0.00047	<0.010	<0.0010	<0.020	0.00006	12	<0.0010	<0.00030	0.0062	0.097	<0.00020	<0.020	3.5	<0.0040	<0.00020	0.00057	<0.10	1.6	<0.00020	0.60	<0.00010	2.2	0.026	5.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.026
	23-Jul-24		0.015	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.000066	14	<0.0010	<0.00030	0.0062	0.072	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	<0.50	<0.00010	2.2	0.029	7.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.026
	7-Aug-24		0.014	<0.00060	0.00046	<0.010	<0.0010	<0.020	0.000042	13	<0.0010	<0.00030	0.0048	0.086	<0.00020	<0.020	3.5	<0.0040	<0.00020	<0.00050	<0.10	1.6	<0.00020	<0.50	<0.00010	2.2	0.029	7.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.016
		SW-119	0.013	<0.00060	0.00051	<0.010	<0.0010	<0.020	0.000032	14	<0.0010	<0.00030	0.0049	0.086	<0.00020	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	<0.50	<0.00010	2.2	0.030	7.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
	RPD		*7%*	*NC*	*10%*	*NC*	*NC*	*NC*	*27%*	*7%*	*NC*	*NC*	*2%*	*0%*	*NC*	*NC*	*6%*	*NC*	*NC*	*NC*	*NC*	*6%*	*NC*	*NC*	*NC*	*0%*	*3%*	*1%*	*NC*	*NC*	*NC*	*NC*	*NC*	*6%*
	20-Aug-24		0.013	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.000027	12	<0.0010	<0.00030	0.0045	<0.060	<0.00020	<0.020	3.1	<0.0040	<0.00020	<0.00050	<0.10	1.5	<0.00020	<0.50	<0.00010	2.8	0.03	7.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
	4-Sep-24		0.013	<0.00060	0.00047	<0.010	<0.0010	<0.020	<0.000020	13	<0.0010	<0.00030	0.0053	0.063	<0.00020	<0.020	3.4	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	<0.50	<0.00010	2.2	0.03	6.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.012
	17-Sep-24		0.0096	<0.00060	0.00047	<0.010	<0.0010	<0.020	<0.000020	12	<0.0010	<0.00030	0.0040	<0.060	<0.00020	0.038	3.4	<0.0040	<0.00020	<0.00050	<0.10	1.6	<0.00020	<0.50	<0.00010	2.2	0.027	6.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0085
	2-Oct-24		0.013	<0.00060	0.00043	<0.010	<0.0010	<0.020	<0.000020	13	<0.0010	<0.00030	0.0039	0.087	<0.00020	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	1.6	<0.00020	0.51	<0.00010	2.3	0.03	5.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0068
	17-Oct-24		0.0098	<0.00060	0.00050	<0.010	<0.0010	<0.020	<0.000020	12	<0.0010	<0.00030	0.0037	0.073	<0.00020	<0.020	3.3	<0.0040	<0.00020	<0.00050	<0.10	1.6	<0.00020	<0.50	<0.00010	2.2	0.03	4.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.007
CL-6 btm	21-Feb-24		0.0044	<0.00060	0.00049	0.010	<0.0010	<0.020	0.000028	13	<0.0010	<0.00030	0.0040	<0.060	<0.00020	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.62	<0.00010	2.5	0.033	4.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.014
	28-May-24		0.011	<0.00060	0.00052	<0.010	<0.0010	<0.020	0.000026	11	<0.0010	<0.00030	0.0042	<0.060	<0.00020	<0.020	3.2	<0.0040	<0.00020	0.00051	<0.10	1.5	<0.00020	0.59	<0.00010	2.1	0.025	4.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
	11-Jun-24		0.014	<0.00060	0.00029	<0.010	<0.0010	<0.020	0.000027	12	<0.0010	<0.00030	0.0034	<0.060	<0.00020	<0.020	3.3	<0.0040	<0.00020	<0.00050	<0.10	1.6	<0.00020	0.52	<0.00010	2.2	0.026	5.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.012
	25-Jun-24		0.032	<0.00060	0.00049	<0.010	<0.0010	<0.020	0.000093	13	<0.0010	<0.00030	0.0068	0.099	<0.00020	<0.020	3.4	0.0062	<0.00020	0.00058	<0.10	1.6	<0.00020	0.75	<0.00010	2.2	0.029	7.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.036
		SW-110	0.024	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.000089	12	<0.0010	<0.00030	0.0066	0.066	<0.00020	<0.020	3.1	0.0048	<0.00020	0.00054	<0.10	1.5	<0.00020	0.62	<0.00010	2.1	0.028	6.1	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.035
	RPD		*28.6%*	*NC*	*11%*	*NC*	*NC*	*NC*	*4%*	*8%*	*NC*	*NC*	*3%*	*40%*	*NC*	*NC*	*9%*	*25%*	*NC*	*7%*	*NC*	*6%*	*NC*	*19%*	*NC*	*5%*	*4%*	*14%*	*NC*	*NC*	*NC*	*NC*	*NC*	*3%*
	10-Jul-24		0.027	<0.00060	0.00047	<0.010	<0.0010	<0.020	0.000064	12	<0.0010	<0.00030	0.0060	0.10	<0.00020	<0.020	3.5	<0.0040	<0.00020	0.00050	<0.10	1.6	<0.00020	0.63	<0.00010	2.2	0.026	5.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.024
	23-Jul-24		0.016	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.000073	14	<0.0010	<0.00030	0.0069	0.074	<0.00020	<0.020	3.6	<0.0040	<0.00020	0.00055	<0.10	1.7	<0.00020	<0.50	<0.00010	2.2	0.029	7.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.028
	7-Aug-24		0.014	<0.00060	0.00047	<0.010	<0.0010	<0.020	0.000037	13	<0.0010	<0.00030	0.0052	0.082	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	<0.50	<0.00010	2.2	0.029	7.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
	20-Aug-24		0.017	<0.00060	0.00038	0.010	<0.0010	<0.020	0.000031	14	<0.0010	<0.00030	0.0052	0.12	<0.00020	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.60	<0.00010	2.3	0.032	6.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.016
	4-Sep-24		0.014	<0.00060	0.00035	<0.010	<0.0010	<0.020	<0.000020	13	<0.0010	<0.00030	0.0050	0.070	<0.00020	<0.020	3.5	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.52	<0.00010	2.2	0.03	6.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
	17-Sep-24		0.014	<0.00060	0.00038	<0.010	<0.0010	<0.020	<0.000020	12	<0.0010	<0.00030	0.0040	<0.060	<0.00020	<0.020	3.3	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	<0.50	<0.00010	2.1	0.028	5.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0074
	2-Oct-24		0.011	<0.00060	0.00052	<0.010	<0.0010	<0.020	<0.000020	12	<0.0010	<0.00030	0.0040	0.086	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.6	<0.00020	0.55	<0.00010	2.2	0.03	5.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0068
	17-Oct-24		0.0089	<0.00060	0.00046	<0.010	<0.0010	<0.020	<0.000020	12	<0.0010	<0.00030	0.0037	<0.060	<0.00020	<0.020	3.4	<0.0040	<0.00020	0.00056	<0.10	1.6	<0.00020	<0.50	<0.00010	2.2	0.03	4.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0062
CL-7 sfc	21-Feb-24		0.0041	<0.00060	0.00061	0.010	<0.0010	<0.020	0.000062	14	<0.0010	<0.00030	0.0049	<0.060	<0.00020	<0.020	4.2	<0.0040	<0.00020	0.00061	<0.10	2.0	<0.00020	0.55	<0.00010	2.7	0.037	4.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.014
	28-May-24		0.0094	<0.00060	0.00032	<0.010	<0.0010	<0.020	0.000048	14	<0.0010	<0.00030	0.0048	0.066	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.68	<0.00010	2.2	0.028	8.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.021
	11-Jun-24		0.015	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.00020	19	<0.0010	<0.00030	0.0093	0.11	<0.00020	<0.020	4.1	0.019	<0.00020	0.00081	<0.10	2.0	<0.00020	0.76	<0.00010	2.3	0.03	13	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.069
	25-Jun-24		0.024	<0.00060	0.00034	0.011	<0.0010	<0.020	0.00024	15	<0.0010	<0.00030	0.012	0.21	<0.00020	<0.020	4.1	0.018	<0.00020	0.00077	<0.10	1.6	<0.00020	0.87	<0.00010	1.9	0.031	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.078
		SW-111	0.024	<0.00060	0.00041	0.010	<0.0010	<0.020	0.00021	17	<0.0010	<0.00030	0.011	0.19	<0.00020	<0.020	4.1	0.016	<0.00020	0.00066	<0.10	1.8	<0.00020	0.85	<0.00010	2.1	0.031	13	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.074
	RPD		*0%*	*NC*	*19%*	*10%*	*NC*	*NC*	*13%*	*13%*	*NC*	*NC*	*9%*	*10%*	*NC*	*NC*	*0%*	*12%*	*NC*	*15%*	*NC*	*12%*	*NC*	*2%*	*NC*	*10%*	*0%*	*8%*	*NC*	*NC*	*NC*	*NC*	*NC*	*5%*
	10-Jul-24		0.03	<0.00060	0.00039	<0.010	<0.0010	<0.020	0.00025	17	<0.0010	<0.00030	0.013	0.21	<0.00020	<0.020	4.1	<0.0040	<0.00020	0.00081	<0.10	1.9	<0.00020	0.86	<0.00010	2.3	0.028	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.082
	23-Jul-24		0.022	<0.00060	0.00032	<0.010	<0.0010	<0.020	0.00016	17	<0.0010	<0.00030	0.010	0.22	<0.00020	<0.020	4.0	<0.0040	<0.00020	0.00065	<0.10	1.9	<0.00020	0.78	<0.00010	2.2	0.028	13	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.052
	7-Aug-24		0.020	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000083	16	<0.0010	<0.00030	0.0077	0.25	<0.00020	0.027	3.9	<0.0040	0.00022	<0.00050	<0.10	1.9	<0.00020	0.65	<0.00010	2.2	0.028	9.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.030
	20-Aug-24		0.022	<0.00060	0.00042	0.011	<0.0010	<0.020	0.000069	16	<0.0010	<0.00030	0.0072	0.29	<0.00020	<0.020	4.1	<0.0040	<0.00020	0.00054	<0.10	1.9	<0.00020	0.57	<0.00010	2.3	0.034	9.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.026
	4-Sep-24		0.019	<0.00060	0.00042	0.011	<0.0010	<0.020	0.000036	15	<0.0010	<0.00030	0.0071	0.27	<0.00020	<0.020	3.8	<0.0040	0.00033	<0.00050	<0.10	1.8	<0.00020	0.65	<0.00010	2.3	0.029	8.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.019
	17-Sep-24		0.010	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000022	15	<0.0010	<0.00030	0.0045	0.19	<0.00020	<0.020	3.6	<0.0040	<0.00020	<0.00050	<0.10	1.9	<0.00020	0.62	<0.00010	2.3	0.031	7.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0091
	2-Oct-24		0.020	<0.00060	0.00040	<0.010	<0.0010	<0.020	<0.000020	15	<0.0010	<0.00030	0.0057	0.32	<0.00020	<0.020	4.1	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.77	<0.00010	2.3	0.032	8.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
	17-Oct-24		0.015	<0.00060	0.00038	<0.010	<0.0010	<0.020	<0.000020	14	<0.0010	<0.00030	0.0055	0.32	<0.00020	<0.020	3.6	<0.0040	<0.00020	0.0005	<0.10	1.7	<0.00020	0.63	<0.00010	2.2	0.032	7.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
CL-7 btm	21-Feb-24		0.0039	<0.00060	0.00058	<0.010	<0.0010	<0.020	0.000036	13	<0.0010	<0.00030	0.0036	<0.060	<0.00020	<0.020	4.3	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.54	<0.00010	2.6	0.037	4.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
	28-May-24		0.010	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.000054	14	<0.0010	<0.00030	0.0051	0.066	<0.00020	<0.020	3.6	<0.0040	<0.00020	0.00061	<0.10	1.7	<0.00020	0.68	<0.00010	2.2	0.027	8.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.022
	11-Jun-24		0.018	<0.00060	0.00027	<0.010	<0.0010	<0.020	0.00019	20	<0.0010	<0.00030	0.0088	0.13	<0.00020	<0.020	4.3	0.022	<0.00020	0.00062	<0.10	2.2	<0.00020	0.74	<0.00010	2.4	0.03	14	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.065
	25-Jun-24		0.026	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00028	17	<0.0010	<0.00030	0.013	0.17	<0.00020	<0.020	3.9	0.019	<0.00020	0.00082	<0.10	1.9	<0.00020	0.73	<0.00010	2.2	0.032	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.092
	10-Jul-24		0.027	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.00019	16	<0.0010	<0.00030	0.010	0.17	<0.00020	<0.020	4.0	<0.0040	<0.00020	0.00098	<0.10	1.9	<0.00020	0.83	<0.00010	2.3	0.027	10	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.062
	23-Jul-24		0.018	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00018	18	<0.0010	<0.00030	0.011	0.20	<0.00020	<0.020	4.1	<0.0040	<0.00020	0.00077	<0.10	2.0	<0.00020	0.70	<0.00010	2.2	0.031	11	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.065
	7-Aug-24		0.019	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.000087	16	<0.0010	<0.00030	0.0077	0.26	<0.00020	<0.020	4.0	<0.0040	<0.00020	<0.00050	<0.10	1.9	<0.00020	0.63	<0.00010	2.3	0.031	10	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.030
		SW-120	0.020	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.000081	16	<0.0010	<0.00030	0.0077	0.25	<0.00020	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.60	<0.00010	2.2	0.030	9.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.031
	RPD		*5%*	*NC*	*9%*	*NC*	*NC*	*NC*	*7%*	*0%*	*NC*	*NC*	*0%*	*4%*	*NC*	*NC*	*8%*	*NC*	*NC*	*NC*	*NC*	*5%*	*NC*	*5%*	*NC*	*4%*	*3%*	*3%*	*NC*	*NC*	*NC*	*NC*	*NC*	*3%*
	20-Aug-24		0.021	<0.00060	0.00045	0.010	<0.0010	<0.020	0.000068	15	<0.0010	<0.00030	0.0073	0.29	<0.00020	<0.020	3.9	<0.0040	<0.00020	0.00063	<0.10	1.9	<0.00020	0.54	<0.00010	2.2	0.033	8.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.024
	4-Sep-24		0.018	<0.00060	0.00046	<0.010	<0.0010	<0.020	0.000031	15	<0.0010	<0.00030	0.0072	0.27	<0.00020	<0.020	3.8	<0.0040	0.00031	0.00061	<0.10	1.9	<0.00020	0.64	<0.00010	2.3	0.029	8.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.018
	17-Sep-24		0.014	<0.00060	0.00038	0.010	<0.0010	<0.020	0.000032	15	<0.0010	<0.00030	0.0058	0.19	0.00038	<0.020	3.6	<0.0040	<0.00020	0.00052	<0.10	1.8	<0.00020	0.63	<0.00010	2.3	0.031	7.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.012
	2-Oct-24		0.015	<0.00060	0.00039	<0.010	<0.0010	<0.020	<0.000020	15	<0.0010	<0.00030	0.0057	0.40	<0.00020	<0.020	4.1	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.78	<0.00010	2.3	0.032	8.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0098
	17-Oct-24		0.018	<0.00060	0.00038	<0.010	<0.0010	<0.020	<0.000020	14	<0.0010	<0.00030	0.0060	0.33	0.0003	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.65	<0.00010	2.3	0.032	7.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
CL-8 sfc	21-Feb-24		0.0034	<0.00060	0.0005	<0.010	<0.0010	<0.020	0.000034	13	<0.0010	<0.00030	0.0038	<0.060	<0.00020	<0.020	4.1	<0.0040	<0.00020	<0.00050	<0.10	1.9	<0.00020	0.54	<0.00010	2.6	0.036	4.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
	28-May-24		0.010	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.000062	15	<0.0010	<0.00030	0.0050	0.071	<0.00020	<0.020	3.7	0.0079	<0.00020	0.00052	<0.10	1.8	<0.00020	0.70	<0.00010	2.2	0.028	9.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.025
	11-Jun-24		0.015	<0.00060	0.00021	<0.010	<0.0010	<0.020	0.00018	19	<0.0010	<0.00030	0.0080	0.12	<0.00020	<0.020	4.0	0.021	<0.00020	0.00058	<0.10	2.0	<0.00020	0.70	<0.00010	2.3	0.035	13	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.058
		SW-106	0.016	<0.00060	0.0002	<0.010	<0.0010	<0.020	0.00019	19	<0.0010	<0.00030	0.0084	0.11	<0.00020	<0.020	4.1	0.022	<0.00020	0.00058	<0.10	2.0	<0.00020	0.69	<0.00010	2.3	0.034	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.061
	RPD		*6%*	*NC*	*5%*	*NC*	*NC*	*NC*	*5%*	*0%*	*NC*	*NC*	*5%*	*9%*	*NC*	*NC*	*2%*	*5%*	*NC*	*0%*	*NC*	*0%*	*NC*	*1%*	*NC*	*0%*	*3%*	*8%*	*NC*	*NC*	*NC*	*NC*	*NC*	*5%*
	25-Jun-24		0.033	<0.00060	0.00038	0.012	<0.0010	<0.020	0.00025	17	<0.0010	<0.00030	0.013	0.18	<0.00020	<0.020	3.8	0.017	<0.00020	0.00080	<0.10	1.9	<0.00020	0.84	<0.00010	2.2	0.032	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.087
	10-Jul-24		0.021	<0.00060	0.00029	<0.010	<0.0010	<0.020	0.00016	16	<0.0010	<0.00030	0.0089	0.14	0.00033	<0.020	3.9	<0.0040	<0.00020	0.00091	<0.10	1.8	<0.00020	0.80	<0.00010	2.3	0.027	10	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.052
	23-Jul-24		0.018	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00016	18	<0.0010	<0.00030	0.011	0.24	<0.00020	<0.020	4.2	<0.0040	0.0003	0.00093	<0.10	2.0	<0.00020	0.73	<0.00010	2.3	0.031	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.055
	7-Aug-24		0.018	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000088	16	<0.0010	<0.00030	0.0074	0.22	<0.00020	<0.020	3.9	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.62	<0.00010	2.3	0.031	9.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.030
	20-Aug-24		0.020	<0.00060	0.00043	0.010	<0.0010	<0.020	0.000064	15	<0.0010	<0.00030	0.0069	0.20	<0.00020	<0.020	3.8	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.55	<0.00010	2.2	0.032	7.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.024
	4-Sep-24		0.024	<0.00060	0.00045	0.010	<0.0010	<0.020	0.000030	15	<0.0010	<0.00030	0.0067	0.18	<0.00020	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.58	<0.00010	2.3	0.032	8.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.018
	17-Sep-24		0.011	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.000033	15	<0.0010	<0.00030	0.0054	0.22	<0.00020	0.039	3.8	<0.0040	<0.00020	0.00067	<0.10	1.8	<0.00020	0.66	<0.00010	2.2	0.028	8.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.014
	2-Oct-24		0.017	<0.00060	0.00039	<0.010	<0.0010	<0.020	0.000024	15	<0.0010	<0.00030	0.0056	0.34	<0.00020	<0.020	4	<0.0040	<0.00020	0.00060	<0.10	1.8	<0.00020	0.76	<0.00010	2.3	0.032	8.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
	17-Oct-24		0.016	<0.00060	0.0004	<0.010	<0.0010	<0.020	0.000025	15	<0.0010	<0.00030	0.0054	0.30	<0.00020	<0.020	3.7	<0.0040	<0.00020	0.00053	<0.10	1.8	<0.00020	0.66	<0.00010	2.3	0.032	7.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
		SW-134	0.016	<0.00060	0.00044	0.010	<0.0010	<0.020	<0.000020	14	<0.0010	<0.00030	0.0054	0.33	<0.00020	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.66	<0.00010	2.3	0.032	7.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
	RPD		*0%*	*NC*	*10%*	*NC*	*NC*	*NC*	*NC*	*7%*	*NC*	*NC*	*0%*	*10%*	*NC*	*NC*	*0%*	*NC*	*NC*	*NC*	*NC*	*0%*	*NC*	*0%*	*NC*	*0%*	*0%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*10%*
CL-8 btm	21-Feb-24		0.003	<0.00060	0.00058	0.010	<0.0010	<0.020	<0.000020	13	<0.0010	<0.00030	0.0032	<0.060	<0.00020	<0.020	3.9	<0.0040	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.55	<0.00010	2.6	0.034	4.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
	28-May-24		0.010	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.000092	15	<0.0010	<0.00030	0.0054	0.075	<0.00020	<0.020	3.8	0.008	<0.00020	0.00056	<0.10	1.8	<0.00020	0.69	<0.00010	2.2	0.028	9.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.029
	11-Jun-24		0.017	<0.00060	<0.00020	<0.010	<0.0010	<0.020	0.00036	26	<0.0010	0.0003	0.012	0.17	<0.00020	<0.020	5.0	0.063	<0.00020	0.00080	<0.10	2.4	<0.00020	0.82	<0.00010	2.5	0.039	20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.11
	25-Jun-24		0.042	<0.00060	0.00034	0.011	<0.0010	0.020	0.00050	22	<0.0010	0.00036	0.020	0.47	<0.00020	<0.020	4.8	0.049	<0.00020	0.0012	<0.10	2.1	<0.00020	1.0	<0.00010	2.2	0.034	19	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.16
	10-Jul-24		0.022	<0.00060	0.00033	<0.010	<0.0010	<0.020	0.00016	16	<0.0010	<0.00030	0.009	0.13	0.00037	<0.020	3.9	<0.0040	<0.00020	0.00074	<0.10	1.8	<0.00020	0.79	<0.00010	2.3	0.027	9.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.053
	23-Jul-24		0.016	<0.00060	0.00035	<0.010	<0.0010	<0.020	0.00015	17	<0.0010	<0.00030	0.0093	0.16	<0.00020	<0.020	4.0	<0.0040	<0.00020	0.00054	<0.10	1.9	<0.00020	0.85	<0.00010	2.3	0.030	11	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.050
	7-Aug-24		0.017	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.000080	16	<0.0010	<0.00030	0.0074	0.22	<0.00020	<0.020	3.9	<0.0040	0.00028	<0.00050	<0.10	1.8	<0.00020	0.61	<0.00010	2.2	0.031	9.7	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.029
	20-Aug-24		0.026	<0.00060	0.00046	<0.010	<0.0010	<0.020	0.000063	14	<0.0010	<0.00030	0.0071	0.20	<0.00020	<0.020	3.4	<0.0040	<0.00020	0.00050	<0.10	1.9	<0.00020	0.60	<0.00010	2.1	0.031	7.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.023
		SW-122	0.020	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000055	14	<0.0010	<0.00030	0.0070	0.19	<0.00020	<0.020	3.4	<0.0040	<0.00020	0.00058	<0.10	1.8	<0.00020	0.59	<0.00010	2.2	0.035	7.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.023
	RPD		*26%*	*NC*	*11%*	*NC*	*NC*	*NC*	*14%*	*0%*	*NC*	*NC*	*1%*	*5%*	*NC*	*NC*	*0%*	*NC*	*NC*	*15%*	*NC*	*5%*	*NC*	*2%*	*NC*	*5%*	*12%*	*1%*	*NC*	*NC*	*NC*	*NC*	*NC*	*0%*
	4-Sep-24		0.020	<0.00060	0.00039	0.011	<0.0010	<0.020	0.000030	16	<0.0010	<0.00030	0.0065	0.21	<0.00020	<0.020	3.8	<0.0040	<0.00020	0.00055	<0.10	2.0	<0.00020	0.59	<0.00010	2.4	0.033	7.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.017
	17-Sep-24		0.019	<0.00060	0.00044	0.010	<0.0010	<0.020	0.000029	15	<0.0010	<0.00030	0.0054	0.20	<0.00020	<0.020	3.6	<0.0040	<0.00020	0.00050	<0.10	1.8	<0.00020	0.64	<0.00010	2.3	0.031	8.1	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.012
	2-Oct-24		0.016	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.000023	15	<0.0010	<0.00030	0.0058	0.36	<0.00020	<0.020	4.0	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.77	<0.00010	2.3	0.032	8.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.010
	17-Oct-24		0.016	<0.00060	0.00044	<0.010	<0.0010	<0.020	<0.000020	14	<0.0010	<0.00030	0.0058	0.31	<0.00020	<0.020	3.7	<0.0040	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.67	<0.00010	2.3	0.032	7.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011

TABLE 5
DISSOLVED METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																														
			Aluminum (Al) Dissolved	Antimony (Sb) Dissolved	Arsenic (As) Dissolved	Barium (Ba) Dissolved	Beryllium (Be) Dissolved	Boron (B) Dissolved	Cadmium (Cd) Dissolved	Calcium (Ca) Dissolved	Chromium (Cr) Dissolved	Cobalt (Co) Dissolved	Copper (Cu) Dissolved	Iron (Fe) Dissolved	Lead (Pb) Dissolved	Lithium (Li) Dissolved	Magnesium (Mg) Dissolved	Manganese (Mn) Dissolved	Molybdenum (Mo) 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) Dissolved	Thallium (Tl) Dissolved	Tin (Sn) Dissolved	Titanium (Ti) Dissolved	Uranium (U) Dissolved	Vanadium (V) Dissolved	Zinc (Zn) Dissolved
Laboratory Detection Limits			*0.0030*	*0.00060*	*0.00020*	*0.010*	*0.0010*	*0.020*	*0.000020*	*0.30*	*0.0010*	*0.00030*	*0.0010*	*0.060*	*0.00020*	*0.020*	*0.20*	*0.0040*	*0.00020*	*0.00050*	*0.10*	*0.30*	*0.00020*	*0.10*	*0.00010*	*0.50*	*0.020*	*0.20*	*0.00020*	*0.0010*	*0.0010*	*0.00010*	*0.0010*	*0.0030*
Manitoba Water Quality Standards, Objectives, and Guidelines [2]																																	
Protection of Aquatic Life and Wildlife																																	
Tier II Objective - Chronic			-	-	*0.15*	-	-	-	*0.00017* [2a]	-	*0.048* [2a]	-	*0.00574* [2a]	-	*0.00142* [2a]	-	-	-	-	*0.0335* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	*0.076* [2a]
Tier II Objective - Acute			-	-	*0.34*	-	-	-	*0.00121* [2a]	-	*0.372* [2a]	-	*0.00823* [2a]	-	*0.0365* [2a]	-	-	-	-	*0.301* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	*0.0754* [2a]

Notes:
"-" = No Data
NC = Not Calculated
RPD = Relative Percent Difference

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.
   a. Calculated as per Manitoba Conservation (2011) using mean total hardness of 59.4 mg/L as $CaCO_3$ as measured in Cold Lake on May 11, 2016.

- Values above Tier II Chronic MWQSOG value.
- Values above Tier II Acute MWQSOG value.
- Values above Tier III MWQSOG guideline.

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																														
			Aluminum (Al) Dissolved	Antimony (Sb) Dissolved	Arsenic (As) Dissolved	Barium (Ba) Dissolved	Beryllium (Be) Dissolved	Boron (B) Dissolved	Cadmium (Cd) Dissolved	Calcium (Ca) Dissolved	Chromium (Cr) Dissolved	Cobalt (Co) Dissolved	Copper (Cu) Dissolved	Iron (Fe) Dissolved	Lead (Pb) Dissolved	Lithium (Li) Dissolved	Magnesium (Mg) Dissolved	Manganese (Mn) Dissolved	Molybdenum (Mo) 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) Dissolved	Thallium (Tl) Dissolved	Tin (Sn) Dissolved	Titanium (Ti) Dissolved	Uranium (U) Dissolved	Vanadium (V) Dissolved	Zinc (Zn) Dissolved
TRIP BLANK	21-Feb-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	28-May-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	11-Jun-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	25-Jun-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	10-Jul-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	23-Jul-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	7-Aug-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	20-Aug-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.00020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	4-Sep-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	0.00021	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	17-Sep-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	2-Oct-24		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Oct-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
Laboratory Detection Limits			*0.0030*	*0.00060*	*0.00020*	*0.010*	*0.0010*	*0.020*	*0.000020*	*0.30*	*0.0010*	*0.00030*	*0.0010*	*0.060*	*0.00020*	*0.020*	*0.20*	*0.0040*	*0.00020*	*0.00050*	*0.10*	*0.30*	*0.00020*	*0.10*	*0.00010*	*0.50*	*0.020*	*0.20*	*0.00020*	*0.0010*	*0.0010*	*0.00010*	*0.0010*	*0.0030*

Notes:
"-" = No Data
NC = Not Calculated
RPD = Relative Percent Difference

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.

TABLE 6
TOTAL METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																															
			Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (Ar)	Total Barium (Ba)	Total Beryllium (Be)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)	Total Molybdenum (Mb)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (Tl)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
Camp Lake																																		
SB-1	21-Feb-24		0.041	<0.00060	0.00040	0.020	<0.0010	0.021	0.00086	82	<0.0010	0.0007	0.016	0.75	0.00078	<0.020	12	0.14	<0.00020	0.0021	<0.10	6.5	<0.00020	1.4	<0.00010	4.6	0.071	92	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.27
	28-May-24		0.057	<0.00060	0.00022	0.012	<0.0010	<0.020	0.00097	50	<0.0010	0.0012	0.021	1.8	<0.00020	<0.020	7.8	0.20	<0.00020	0.0017	<0.10	3.9	<0.00020	1.2	<0.00010	3.1	0.051	50	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	0.27
	11-Jun-24		0.086	<0.00060	0.00041	0.011	<0.0010	<0.020	0.00081	25	<0.0010	0.00088	0.035	1.0	<0.00020	<0.020	4.9	0.090	<0.00020	0.0016	<0.10	2.4	<0.00020	1.3	<0.00010	2.4	0.037	21	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	0.28
	25-Jun-24		0.088	<0.00060	0.00040	<0.010	<0.0010	<0.020	0.00073	20	<0.0010	0.00079	0.037	0.74	<0.00020	<0.020	4.4	0.061	<0.00020	0.0013	<0.10	2.0	<0.00020	1.2	<0.00010	2.1	0.031	15	<0.00020	<0.0010	0.0026	<0.00010	<0.0010	0.23
	10-Jul-24		0.049	<0.00060	0.00032	<0.010	<0.0010	<0.020	0.00041	16	<0.0010	<0.00030	0.020	0.36	<0.00020	<0.020	3.7	0.028	<0.00020	0.00088	<0.10	1.8	<0.00020	0.98	<0.00010	1.9	0.028	11	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.13
	23-Jul-24		0.051	<0.00060	0.00053	<0.010	<0.0010	<0.020	0.00046	16	<0.0010	<0.00030	0.022	0.43	<0.00020	<0.020	3.8	0.015	0.00022	0.0013	<0.10	1.9	<0.00020	0.89	<0.00010	2.0	0.026	11	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.14
	7-Aug-24		0.060	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.00028	20	<0.0010	<0.00030	0.014	1.6	<0.00020	<0.020	4.2	0.022	<0.00020	0.00088	<0.10	2.2	<0.00020	0.95	<0.00010	2.2	0.029	16	<0.00020	<0.0010	0.0024	<0.00010	<0.0010	0.073
	20-Aug-24		0.072	<0.00060	0.00061	<0.010	<0.0010	<0.020	0.00038	23	<0.0010	<0.00030	0.020	2.3	<0.00020	<0.020	4.5	0.022	0.00024	0.0014	<0.10	2.4	<0.00020	0.85	<0.00010	2.5	0.030	18	<0.00020	<0.0010	0.0029	<0.00010	<0.0010	0.11
		SW-124	0.068	<0.00060	0.00059	<0.010	<0.0010	<0.020	0.00037	24	<0.0010	<0.00030	0.020	2.4	<0.00020	<0.020	4.8	0.026	<0.00020	0.0013	<0.10	2.6	0.00021	0.97	<0.00010	2.5	0.036	19	<0.00020	<0.0010	0.0025	<0.00010	<0.0010	0.12
	RPD		*6%*	*NC*	*3%*	*NC*	*NC*	*NC*	*3%*	*4%*	*NC*	*NC*	*0%*	*4%*	*NC*	*NC*	*6%*	*17%*	*NC*	*7%*	*NC*	*8%*	*NC*	*13%*	*NC*	*0%*	*18%*	*5%*	*NC*	*NC*	*15%*	*NC*	*NC*	*9%*
	4-Sep-24		0.057	<0.00060	0.00041	0.011	<0.0010	<0.020	0.00028	26	<0.0010	<0.00030	0.013	5.0	<0.00020	<0.020	5.4	0.034	0.0014	0.00080	<0.10	2.8	<0.00020	0.90	<0.00010	2.7	0.039	23	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.073
	17-Sep-24		0.040	<0.00060	0.00044	0.010	<0.0010	<0.020	0.00027	30	<0.0010	<0.00030	0.013	4.7	0.00037	<0.020	5.5	0.029	<0.00020	0.00085	<0.10	3.1	0.00022	0.82	<0.00010	2.9	0.038	25	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.077
	2-Oct-24		0.12	<0.00060	0.00046	0.012	<0.0010	<0.020	0.00029	32	<0.0010	<0.00030	0.015	6.5	0.00050	<0.020	5.8	0.057	<0.00020	0.0012	<0.10	3.1	<0.00020	0.91	<0.00010	2.8	0.042	29	<0.00020	<0.0010	0.0075	<0.00010	<0.0010	0.089
	17-Oct-24		0.11	<0.00060	0.00042	0.010	<0.0010	<0.020	0.00032	31	<0.0010	<0.00030	0.014	6.8	0.00034	<0.020	5.7	0.064	<0.00020	0.0011	<0.10	3.2	<0.00020	0.99	<0.00010	2.6	0.037	35	<0.00020	<0.0010	0.0046	<0.00010	<0.0010	0.088
SB-2	21-Feb-24		0.045	<0.00060	0.00037	0.019	<0.0010	0.021	0.00077	77	<0.0010	0.00061	0.016	0.98	0.00045	<0.020	11	0.13	<0.00020	0.0019	<0.10	6.1	<0.00020	1.4	<0.00010	4.3	0.066	88	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.25
	28-May-24		0.060	<0.00060	0.00029	0.012	<0.0010	<0.020	0.0011	48	<0.0010	0.0013	0.023	1.7	<0.00020	<0.020	7.6	0.19	<0.00020	0.0023	<0.10	3.9	<0.00020	1.2	<0.00010	3.0	0.049	48	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.29
	11-Jun-24		0.081	<0.00060	0.00041	0.010	<0.0010	<0.020	0.00075	23	<0.0010	0.00077	0.030	0.91	<0.00020	<0.020	4.6	0.077	<0.00020	0.0013	<0.10	2.3	<0.00020	1.3	<0.00010	2.3	0.035	19	<0.00020	<0.0010	0.0023	<0.00010	<0.0010	0.25
	25-Jun-24		0.12	<0.00060	0.00039	<0.010	<0.0010	<0.020	0.00080	19	0.0040	0.00097	0.036	0.78	<0.00020	<0.020	4.0	0.061	0.00022	0.0036	<0.10	2.0	<0.00020	1.0	<0.00010	2.0	0.026	15	<0.00020	<0.0010	0.0027	<0.00010	<0.0010	0.24
		SW-112	0.11	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00074	19	<0.0010	0.00078	0.033	0.74	<0.00020	<0.020	3.9	0.058	<0.00020	0.0014	<0.10	1.9	<0.00020	0.95	<0.00010	1.9	0.025	15	<0.00020	<0.0010	0.0025	<0.00010	<0.0010	0.23
	RPD		*9%*	*NC*	*14%*	*NC*	*NC*	*NC*	*8%*	*0%*	*NC*	*22%*	*9%*	*5%*	*NC*	*NC*	*3%*	*5%*	*NC*	*88%*	*NC*	*5%*	*NC*	*5%*	*NC*	*5%*	*4%*	*0%*	*NC*	*NC*	*8%*	*NC*	*NC*	*4%*
	10-Jul-24		0.12	<0.00060	0.00039	<0.010	<0.0010	<0.020	0.00049	16	<0.0010	<0.00030	0.023	0.40	<0.00020	<0.020	3.7	0.029	<0.00020	0.0012	<0.10	1.8	<0.00020	0.99	<0.00010	1.9	0.028	11	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.15
	23-Jul-24		0.074	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.00031	16	<0.0010	<0.00030	0.015	0.44	<0.00020	<0.020	3.7	0.017	<0.00020	0.00078	<0.10	1.9	<0.00020	0.87	<0.00010	2.0	0.024	10	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.10
	7-Aug-24		0.059	<0.00060	0.00040	<0.010	<0.0010	<0.020	0.00025	17	<0.0010	<0.00030	0.013	3.0	<0.00020	<0.020	3.8	0.029	<0.00020	0.00089	<0.10	2.0	<0.00020	0.96	<0.00010	2.0	0.027	14	<0.00020	<0.0010	0.0024	<0.00010	<0.0010	0.068
	20-Aug-24		0.070	<0.00060	0.00060	<0.010	<0.0010	<0.020	0.00044	22	<0.0010	<0.00030	0.021	2.4	0.00069	<0.020	4.3	0.027	0.00027	0.0015	<0.10	2.3	0.00022	0.92	<0.00010	2.5	0.029	17	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.12
	4-Sep-24		0.059	<0.00060	0.00037	0.010	<0.0010	<0.020	0.00025	25	<0.0010	<0.00030	0.013	4.7	0.00020	<0.020	5.2	0.033	0.0059	0.00089	<0.10	2.7	<0.00020	0.89	<0.00010	2.6	0.037	22	<0.00020	<0.0010	0.0028	<0.00010	<0.0010	0.070
	17-Sep-24		0.041	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.00024	27	<0.0010	<0.00030	0.011	4.5	0.00030	<0.020	5.2	0.031	<0.00020	0.0014	<0.10	2.7	<0.00020	0.83	<0.00010	2.6	0.038	25	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.070
	2-Oct-24		0.13	<0.00060	0.00044	0.012	<0.0010	<0.020	0.00032	33	<0.0010	<0.00030	0.014	7.5	0.00042	<0.020	6.0	0.061	<0.00020	0.0011	<0.10	3.2	<0.00020	0.92	<0.00010	2.9	0.043	31	<0.00020	<0.0010	0.0076	<0.00010	<0.0010	0.088
	17-Oct-24		0.13	<0.00060	0.00049	0.012	<0.0010	<0.020	0.00046	36	<0.0010	0.00044	0.019	6.0	0.00056	<0.020	6.1	0.057	<0.00020	0.0014	<0.10	3.3	0.00021	1.0	<0.00010	3.2	0.042	35	<0.00020	<0.0010	0.0057	<0.00010	<0.0010	0.14
CB-1	21-Feb-24		0.026	<0.00060	0.00034	0.019	<0.0010	<0.020	0.00064	75	<0.0010	0.00053	0.012	0.58	0.00053	<0.020	11	0.13	<0.00020	0.0017	<0.10	6.0	<0.00020	1.3	<0.00010	4.3	0.066	86	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.20
	28-May-24		0.074	<0.00060	0.00034	0.016	<0.0010	<0.020	0.0012	66	<0.0010	0.0016	0.025	2.3	<0.00020	<0.020	10	0.26	<0.00020	0.0019	<0.10	5.2	<0.00020	1.3	<0.00010	3.7	0.062	68	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.32
	11-Jun-24		0.097	<0.00060	0.00037	0.012	<0.0010	<0.020	0.00094	32	<0.0010	0.0012	0.037	1.0	<0.00020	<0.020	5.9	0.083	<0.00020	0.0017	<0.10	2.8	<0.00020	1.1	<0.00010	2.6	0.043	24	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	0.31
	25-Jun-24		0.087	<0.00060	0.00032	0.010	<0.0010	<0.020	0.00063	21	<0.0010	0.00070	0.031	0.8	<0.00020	<0.020	4.5	0.066	<0.00020	0.0015	<0.10	2.1	<0.00020	1.1	<0.00010	2.1	0.031	17	<0.00020	<0.0010	0.0020	<0.00010	<0.0010	0.20
	10-Jul-24		0.049	<0.00060	0.00030	<0.010	<0.0010	<0.020	0.00044	17	<0.0010	<0.00030	0.021	0.47	<0.00020	<0.020	3.9	0.030	0.00081	0.0010	<0.10	1.8	<0.00020	1.0	<0.00010	2.5	0.032	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.14
		SW-115	0.064	<0.00060	0.00037	<0.010	<0.0010	<0.020	0.00046	17	<0.0010	<0.00030	0.021	0.39	<0.00020	<0.020	3.8	0.030	<0.00020	0.00094	<0.10	1.9	<0.00020	1.0	<0.00010	2.0	0.029	12	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.14
	RPD		*27%*	*NC*	*21%*	*NC*	*NC*	*NC*	*4%*	*0%*	*NC*	*NC*	*0%*	*19%*	*NC*	*NC*	*3%*	*0%*	*NC*	*6%*	*NC*	*5%*	*NC*	*0%*	*NC*	*22%*	*10%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*0%*
	23-Jul-24		0.038	<0.00060	0.00040	<0.010	<0.0010	<0.020	0.00034	18	<0.0010	<0.00030	0.016	0.47	<0.00020	<0.020	4.0	0.015	<0.00020	0.00089	<0.10	2.0	<0.00020	0.89	<0.00010	2.1	0.026	13	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.11
		SW-116	0.038	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.00039	18	<0.0010	<0.00030	0.018	0.49	<0.00020	<0.020	4.0	0.016	<0.00020	0.0010	<0.10	2.0	<0.00020	0.85	<0.00010	2.1	0.026	13	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.12
	RPD		*0%*	*NC*	*5%*	*NC*	*NC*	*NC*	*14%*	*0%*	*NC*	*NC*	*12%*	*4%*	*NC*	*NC*	*0%*	*6%*	*NC*	*12%*	*NC*	*0%*	*NC*	*5%*	*NC*	*0%*	*0%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*9%*
	7-Aug-24		0.063	<0.00060	0.00045	<0.010	<0.0010	<0.020	0.00036	20	<0.0010	<0.00030	0.018	2.2	<0.00020	<0.020	4.6	0.027	<0.00020	0.0013	<0.10	2.2	0.00021	0.98	<0.00010	2.1	0.033	18	<0.00020	<0.0010	0.0025	<0.00010	<0.0010	0.10
	20-Aug-24		0.063	<0.00060	0.00056	<0.010	<0.0010	<0.020	0.00037	23	<0.0010	<0.00030	0.019	2.2	0.00054	<0.020	4.5	0.022	<0.00020	0.0014	<0.10	2.4	0.00021	0.84	<0.00010	2.5	0.029	17	<0.00020	<0.0010	0.0025	<0.00010	<0.0010	0.11
	4-Sep-24		0.056	<0.00060	0.00039	0.011	<0.0010	<0.020	0.00026	26	<0.0010	<0.00030	0.013	5.1	0.00022	<0.020	5.4	0.033	<0.00020	0.00083	<0.10	2.8	<0.00020	0.86	<0.00010	2.6	0.039	24	<0.00020	<0.0010	0.0022	<0.00010	<0.0010	0.074
	17-Sep-24		0.036	<0.00060	0.00037	0.011	<0.0010	<0.020	0.00024	30	<0.0010	<0.00030	0.012	4.7	0.00032	<0.020	5.3	0.029	<0.00020	0.00077	<0.10	3.1	<0.00020	0.82	<0.00010	2.9	0.038	25	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.067
	2-Oct-24		0.13	<0.00060	0.00040	0.011	<0.0010	<0.020	0.00031	30	<0.0010	<0.00030	0.014	6.6	0.00052	<0.020	5.9	0.057	<0.00020	0.0012	<0.10	2.9	<0.00020	1.0	<0.00010	2.6	0.037	31	<0.00020	<0.0010	0.0073	<0.00010	<0.0010	0.091
	17-Oct-24		0.14	<0.00060	0.00057	0.012	<0.0010	<0.020	0.00053	37	<0.0010	0.00049	0.022	6.6	0.00058	<0.020	6.4	0.063	<0.00020	0.0016	<0.10	3.5	0.00025	1.0	<0.00010	3.3	0.043	37	<0.00020	<0.0010	0.0071	<0.00010	<0.0010	0.17
CB-2	21-Feb-24		0.025	<0.00060	0.00031	0.021	<0.0010	0.021	0.00082	84	<0.0010	0.00060	0.014	0.56	<0.00020	<0.020	13	0.14	<0.00020	0.0019	<0.10	6.7	<0.00020	1.4	<0.00010	4.7	0.073	95	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.24
	28-May-24		0.079	<0.00060	0.00032	0.016	<0.0010	<0.020	0.0013	67	<0.0010	0.0018	0.026	2.1	<0.00020	<0.020	10	0.28	<0.00020	0.0020	<0.10	5.1	<0.00020	1.3	<0.00010	3.8	0.068	69	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.34
	11-Jun-24		0.099	<0.00060	0.00031	0.013	<0.0010	<0.020	0.00090	34	<0.0010	0.0012	0.035	1.3	<0.00020	<0.020	6.1	0.13	<0.00020	0.0017	<0.10	2.9	<0.00020	1.4	<0.00010	2.6	0.045	31	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.30
	25-Jun-24		0.12	<0.00060	0.00034	0.010	<0.0010	<0.020	0.00078	24	<0.0010	0.0010	0.034	0.92	<0.00020	<0.020	5.0	0.079	<0.00020	0.0017	<0.10	2.4	<0.00020	1.2	<0.00010	2.2	0.034	20	<0.00020	<0.0010	0.0042	<0.00010	<0.0010	0.24
	10-Jul-24		0.059	<0.00060	0.00039	<0.010	<0.0010	<0.020	0.00057	19	0.0036	0.00059	0.024	0.47	0.00036	<0.020	4.1	0.039	0.00062	0.0066	<0.10	2.0	<0.00020	1.1	<0.00010	2.2	0.031	15	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.16
	23-Jul-24		0.053	<0.00060	0.00060	<0.010	<0.0010	<0.020	0.00057	22	<0.0010	<0.00030	0.024	0.60	<0.00020	<0.020	4.7	0.020	0.00022	0.0014	<0.10	2.3	0.00021	1.0	<0.00010	2.3	0.029	17	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.16
	7-Aug-24		0.059	<0.00060	0.00039	<0.010	<0.0010	<0.020	0.00027	20	<0.0010	<0.00030	0.014	1.6	<0.00020	<0.020	4.1	0.020	<0.00020	0.00097	<0.10	2.2	<0.00020	0.92	<0.00010	2.1	0.029	16	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.077
		SW-121	0.055	<0.00060	0.00030	<0.010	<0.0010	<0.020	0.00028	21	<0.0010	<0.00030	0.014	1.9	<0.00020	<0.020	4.5	0.023	0.00023	0.00097	<0.10	2.3	0.00020	0.96	<0.00010	2.3	0.032	17	<0.00020	<0.0010	0.0024	<0.00010	<0.0010	0.084
	RPD		*7%*	*NC*	*26%*	*NC*	*NC*	*NC*	*4%*	*5%*	*NC*	*NC*	*0%*	*17%*	*NC*	*NC*	*9%*	*14%*	*NC*	*0%*	*NC*	*4%*	*NC*	*4%*	*NC*	*9%*	*10%*	*6%*	*NC*	*NC*	*13%*	*NC*	*NC*	*9%*
	20-Aug-24		0.059	<0.00060	0.00055	<0.010	<0.0010	<0.020	0.00037	25	<0.0010	<0.00030	0.018	2.1	0.00021	<0.020	4.7	0.018	<0.00020	0.0012	<0.10	2.6	0.00021	0.8	<0.00010	2.6	0.031	19	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.10
	4-Sep-24		0.065	<0.00060	0.00036	0.011	<0.0010	<0.020	0.00028	28	<0.0010	<0.00030	0.013	4.9	<0.00020	<0.020	5.5	0.030	<0.00020	0.00083	<0.10	2.9	<0.00020	0.86	<0.00010	2.7	0.039	25	<0.00020	<0.0010	0.0044	<0.00010	<0.0010	0.071
	17-Sep-24		0.038	<0.00060	0.00042	0.011	<0.0010	<0.020	0.00026	33	<0.0010	<0.00030	0.012	4.6	0.00027	<0.020	5.5	0.026	0.00039	0.00083	<0.10	3.5	<0.00020	0.78	<0.00010	3.0	0.041	27	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.072
	2-Oct-24		0.12	<0.00060	0.00039	0.012	<0.0010	<0.020	0.00032	32	<0.0010	<0.00030	0.015	6.4	0.00057	<0.020	5.9	0.054	<0.00020	0.0013	<0.10	3.1	<0.00020	0.91	<0.00010	2.8	0.043	30	<0.00020	<0.0010	0.0071	<0.00010	<0.0010	0.088
	17-Oct-24		0.14	<0.00060	0.00053	0.012	<0.0010	<0.020	0.00052	37	<0.0010	0.00049	0.022	6.4	0.00062	<0.020	6.4	0.062	<0.00020	0.0015	<0.10	3.4	0.00027	1.0	<0.00010	3.2	0.043	37	<0.00020	<0.0010	0.0064	<0.00010	<0.0010	0.16
NB-1	21-Feb-24		0.029	<0.00060	0.00040	0.022	<0.0010	0.022	0.00081	89	<0.0010	0.00063	0.013	0.78	<0.00020	<0.020	13	0.15	<0.00020	0.0020	<0.10	7.1	<0.00020	1.5	<0.00010	5.0	0.078	100	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.24
	28-May-24		0.11	<0.00060	0.00034	0.017	<0.0010	<0.020	0.0018	80	<0.0010	0.0024	0.040	2.2	<0.00020	<0.020	13	0.35	<0.00020	0.0029	<0.10	5.6	<0.00020	1.3	<0.00010	3.8	0.067	84	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.45
	11-Jun-24		0.16	<0.00060	0.00043	0.014	<0.0010	<0.020	0.0016	45	<0.0010	0.0021	0.058	1.8	0.0010	<0.020	7.5	0.19	<0.00020	0.0028	<0.10	3.6	<0.00020	1.3	<0.00010	3.0	0.053	45	<0.00020	<0.0010	0.0020	<0.00010	<0.0010	0.49
		SW-108	0.16	<0.00060	0.00039	0.013	<0.0010	<0.020	0.0017	44	<0.0010	0.0022	0.062	1.8	<0.00020	<0.020	7.4	0.18	0.00022	0.0030	<0.10	3.4	<0.00020	1.3	<0.00010	3.0	0.053	44	<0.00020	<0.0010	0.0029	<0.00010	<0.0010	0.53
	RPD		*0%*	*NC*	*10%*	*7%*	*NC*	*NC*	*6%*	*2%*	*NC*	*5%*	*7%*	*0%*	*NC*	*NC*	*1%*	*5%*	*NC*	*7%*	*NC*	*6%*	*NC*	*0%*	*NC*	*0%*	*0%*	*2%*	*NC*	*NC*	*37%*	*NC*	*NC*	*8%*
	25-Jun-24		0.16	<0.00060	0.00036	0.011	<0.0010	<0.020	0.0011	28	<0.0010	0.0013	0.051	1.1	<0.00020	<0.020	5.5	0.089	<0.00020	0.0022	<0.10	2.6	<0.00020	1.3	<0.00010	2.4	0.038	25	<0.00020	<0.0010	0.0044	<0.00010	<0.0010	0.34
	10-Jul-24		0.067	<0.00060	0.00052	<0.010	<0.0010	<0.020	0.00072	19	<0.0010	0.00038	0.034	0.39	<0.00020	<0.020	3.9	0.027	<0.00020	0.0017	<0.10	1.9	<0.00020	0.90	<0.00010	2.0	0.027	13	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.22
	23-Jul-24		0.048	<0.00060	0.00056	<0.010	<0.0010	<0.020	0.00054	21	<0.0010	<0.00030	0.024	0.58	<0.00020	<0.020	4.6	0.015	<0.00020	0.0015	<0.10	2.2	<0.00020	0.97	<0.00010	2.3	0.029	17	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.16
	7-Aug-24		0.059	<0.00060	0.00051	<0.010	<0.0010	<0.020	0.00039	26	<0.0010	<0.00030	0.020	1.8	<0.00020	<0.020	5.1	0.023	0.00021	0.0016	<0.10	2.6	0.00021	0.92	<0.00010	2.4	0.036	21	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.11
	20-Aug-24		0.071	<0.00060	0.00045	<0.010	<0.0010	<0.020	0.00034	27	<0.0010	<0.00030	0.018	2.2	0.00034	<0.020	4.9	0.021	0.00037	0.0011	<0.10	2.4	0.00023	0.81	<0.00010	2.5	0.031	22	<0.00020	<0.0010	0.0025	<0.00010	<0.0010	0.099
	4-Sep-24		0.056	<0.00060	0.00039	0.010	<0.0010	<0.020	0.00028	31	<0.0010	<0.00030	0.012	3.9	0.00021	<0.020	6.1	0.028	<0.00020	0.00071	<0.10	2.9	<0.00020	0.77	<0.00010	2.6	0.041	29	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	0.072
	17-Sep-24		0.041	<0.00060	0.00045	<0.010	<0.0010	<0.020	0.00027	32	<0.0010	<0.00030	0.011	4.0	0.00022	<0.020	5.9	0.026	0.00041	0.00068	<0.10	2.9	0.00023	0.71	<0.00010	2.5	0.041	30	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.070
	2-Oct-24		0.11	<0.00060	0.00040	0.011	<0.0010	<0.020	0.00033	37	0.012	0.00037	0.018	5.3	0.00050	<0.020	6.5	0.049	0.0017	0.0051	<0.10	3.2	<0.00020	0.80	<0.00010	2.7	0.045	34	<0.00020	<0.0010	0.0047	<0.00010	<0.0010	0.10
	17-Oct-24		0.12	<0.00060	0.00038	0.010	<0.0010	<0.020	0.00035	38	<0.0010	<0.00030	0.013	5.8	<0.00020	<0.020	6.7	0.061	<0.00020	0.0011	<0.10	3.5	<0.00020	0.90	<0.00010	2.7	0.041	41	<0.00020	<0.0010	0.0038	<0.00010	<0.0010	0.096
		SW-136	0.10	<0.00060	0.00041	0.011	<0.0010	<0.020	0.00038	38	<0.0010	0.00033	0.015	6.0	0.00030	<0.020	6.5	0.065	<0.00020	0.0012	<0.10	3.3	<0.00020	0.92	<0.00010	2.8	0.046	39	<0.00020	<0.0010	0.0040	<0.00010	<0.0010	0.12
	RPD		*18%*	*NC*	*8%*	*10%*	*NC*	*NC*	*8%*	*0%*	*NC*	*NC*	*14%*	*3%*	*NC*	*NC*	*3%*	*6%*	*NC*	*9%*	*NC*	*6%*	*NC*	*2%*	*NC*	*4%*	*11%*	*5%*	*NC*	*NC*	*5%*	*NC*	*NC*	*22%*
NB-2	21-Feb-24		0.031	<0.00060	0.00029	0.020	<0.0010	0.020	0.00074	81	<0.0010	0.00061	0.012	0.67	<0.00020	<0.020	12	0.15	<0.00020	0.0019	<0.10	6.4	<0.00020	1.4	<0.00010	4.6	0.07	91	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.220
	28-May-24		0.11	<0.00060	0.00034	0.016	<0.0010	<0.020	0.0017	74	<0.0010	0.0023	0.039	1.9	<0.00020	<0.020	11	0.32	<0.00020	0.0027	<0.10	5.2	<0.00020	1.2	<0.00010	3.6	0.063	77	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.430
	11-Jun-24		0.11	<0.00060	0.00029	0.014	<0.0010	<0.020	0.0012	45	<0.0010	0.0016	0.045	1.6	<0.00020	<0.020	7.5	0.19	<0.00020	0.0020	<0.10	3.6	<0.00020	1.4	<0.00010	3.0	0.054	43	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.360
	25-Jun-24		0.12	<0.00060	0.00038	0.010	<0.0010	<0.020	0.00093	25	<0.0010	0.0011	0.043	0.94	<0.00020	<0.020	4.9	0.078	<0.00020	0.0019	<0.10	2.3	<0.00020	1.1	<0.00010	2.2	0.033	22	<0.00020	<0.0010	0.0026	<0.00010	<0.0010	0.290
	10-Jul-24		0.056	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00052	18	<0.0010	<0.00030	0.024	0.41	<0.00020	<0.020	4.0	0.030	<0.00020	0.0012	<0.10	2.0	<0.00020	1.0	<0.00010	2.0	0.030	14	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.160
	23-Jul-24		0.051	<0.00060	0.00047	<0.010	<0.0010	<0.020	0.00054	20	<0.0010	<0.00030	0.026	0.48	<0.00020	<0.020	4.1	0.012	0.00028	0.0017	<0.10	2.1	<0.00020	0.79	<0.00010	2.1	0.027	14	<0.00020	<0.0010	0.0013	<0.00010	<0.0010	0.160
	7-Aug-24		0.050	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00026	22	<0.0010	<0.00030	0.014	1.4	0.0013	<0.020	4.3	0.018	0.00028	0.00083	<0.10	2.1	<0.00020	0.85	<0.00010	2.1	0.032	19	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.069
	20-Aug-24		0.071	<0.00060	0.00054	<0.010	<0.0010	<0.020	0.00037	26	<0.0010	<0.00030	0.020	2.1	0.00089	<0.020	4.8	0.020	0.0003	0.0013	<0.10	2.4	0.00022	0.76	<0.00010	2.5	0.030	21	<0.00020	<0.0010	0.0022	<0.00010	<0.0010	0.110
	4-Sep-24		0.063	<0.00060	0.00030	0.011	<0.0010	0.023	0.00026	30	<0.0010	<0.00030	0.014	4.0	0.00056	<0.020	5.9	0.023	<0.00020	0.00087	<0.10	2.8	<0.00020	0.82	<0.00010	2.6	0.040	27	<0.00020	<0.0010	0.0020	<0.00010	<0.0010	0.076
	17-Sep-24		0.043	<0.00060	0.00046	<0.010	<0.0010	<0.020	0.00026	32	<0.0010	<0.00030	0.012	3.9	0.00070	<0.020	6.0	0.023	<0.00020	0.00065	<0.10	2.9	<0.00020	0.69	<0.00010	2.5	0.041	30	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.070
		SW-128	0.055	<0.00060	0.00059	0.011	<0.0010	<0.020	0.00034	40	<0.0010	<0.00030	0.017	4.2	0.00029	<0.020	6.1	0.024	0.00058	0.0012	<0.10	3.7	0.00022	0.71	<0.00010	3.2	0.042	30	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.099
	RPD		*24%*	*NC*	*25%*	*NC*	*NC*	*NC*	*27%*	*22%*	*NC*	*NC*	*34%*	*7%*	*83%*	*NC*	*2%*	*4%*	*NC*	*59%*	*NC*	*24%*	*NC*	*3%*	*NC*	*25%*	*2%*	*0%*	*NC*	*NC*	*40%*	*NC*	*NC*	*34%*
	2-Oct-24		0.12	<0.00060	0.00043	0.010	<0.0010	<0.020	0.00040	35	0.11	0.0014	0.021	6.2	0.0023	<0.020	6.6	0.059	0.013	0.042	<0.10	3.0	0.00020	0.84	0.00019	2.5	0.039	35	<0.00020	<0.0010	0.0053	<0.00010	0.0023	0.11
		SW-132	0.10	<0.00060	0.00045	0.011	<0.0010	<0.020	0.00032	37	<0.0010	<0.00030	0.014	5.3	0.00034	<0.020	6.5	0.049	<0.00020	0.00099	<0.10	3.2	<0.00020	0.79	<0.00010	2.8	0.045	34	<0.00020	<0.0010	0.0049	<0.00010	<0.0010	0.099
	RPD		*18%*	*NC*	*5%*	*10%*	*NC*	*NC*	*22%*	*6%*	*NC*	*NC*	*40%*	*16%*	*148%*	*NC*	*2%*	*19%*	*NC*	*191%*	*NC*	*6%*	*NC*	*6%*	*NC*	*11%*	*14%*	*3%*	*NC*	*NC*	*8%*	*NC*	*NC*	*11%*
	17-Oct-24		0.10	<0.00060	0.00037	0.011	<0.0010	0.020	0.00039	37	<0.0010	<0.00030	0.013	5.9	<0.00020	<0.020	6.4	0.065	<0.00020	0.0011	<0.10	3.2	<0.00020	0.9	<0.00010	2.7	0.045	38	<0.00020	<0.0010	0.0039	<0.00010	<0.0010	0.11

TABLE 6
TOTAL METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter[1]																														
			Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (Ar)	Total Barium (Ba)	Total Beryllium (Be)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)	Total Molybdenum (Mb)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (Tl)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
EB-1	21-Feb-24		0.038	<0.00060	0.00043	0.022	<0.0010	0.022	0.0011	92	<0.0010	0.00061	0.018	0.68	<0.00020	<0.020	15	0.12	<0.00020	0.0026	<0.10	7.3	<0.00020	1.3	<0.00010	5.2	0.090	92	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.34
		SW-100	0.034	<0.00060	0.00041	0.021	<0.0010	0.020	0.00089	90	<0.0010	0.00056	0.015	0.65	<0.00020	<0.020	14	0.11	<0.00020	0.0022	<0.10	7.1	<0.00020	1.3	<0.00010	5.1	0.088	90	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.27
	RPD		*11%*	*NC*	*5%*	*5%*	*NC*	*10%*	*21%*	*2%*	*NC*	*9%*	*18%*	*5%*	*NC*	*NC*	*7%*	*9%*	*NC*	*17%*	*NC*	*3%*	*NC*	*0%*	*NC*	*2%*	*2%*	*2%*	*NC*	*NC*	*0%*	*NC*	*NC*	*23%*
	28-May-24		0.18	<0.00060	0.00041	0.019	<0.0010	<0.020	0.0023	78	<0.0010	0.0042	0.065	1.6	<0.00020	<0.020	12	0.45	<0.00020	0.0044	<0.10	5.5	0.00024	1.4	<0.00010	4.1	0.071	85	<0.00020	<0.0010	0.001	<0.00010	<0.0010	0.65
	11-Jun-24		0.23	<0.00060	<0.00020	0.015	<0.0010	<0.020	0.0020	52	<0.0010	0.0030	0.065	1.0	<0.00020	<0.020	8.8	0.27	<0.00020	0.0034	<0.10	3.9	<0.00020	1.3	<0.00010	3.2	0.060	52	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.55
	25-Jun-24		0.19	<0.00060	0.00030	0.014	<0.0010	<0.020	0.0014	39	<0.0010	0.0022	0.051	1.0	<0.00020	<0.020	7.2	0.16	<0.00020	0.0029	<0.10	3.3	<0.00020	1.5	<0.00010	2.9	0.047	37	<0.00020	<0.0010	0.0044	<0.00010	<0.0010	0.38
	10-Jul-24		0.12	<0.00060	0.00041	0.011	<0.0010	<0.020	0.0010	30	<0.0010	0.0011	0.036	0.52	<0.00020	<0.020	5.7	0.084	<0.00020	0.0021	<0.10	2.7	<0.00020	1.2	<0.00010	2.5	0.041	28	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.23
	23-Jul-24		0.080	<0.00060	0.00050	0.011	<0.0010	<0.020	0.00079	29	0.0029	0.0004	0.027	0.69	<0.00020	<0.020	5.6	0.037	0.00064	0.0038	<0.10	2.7	<0.00020	0.98	<0.00010	2.5	0.036	26	<0.00020	<0.0010	0.0020	<0.00010	<0.0010	0.22
	7-Aug-24		0.080	<0.00060	0.00029	0.012	<0.0010	<0.020	0.00042	33	<0.0010	<0.00030	0.016	1.4	0.00022	<0.020	6.1	0.016	<0.00020	0.0015	<0.10	3.0	<0.00020	1.0	<0.00010	2.8	0.042	30	<0.00020	<0.0010	0.0048	<0.00010	<0.0010	0.11
	20-Aug-24		0.087	<0.00060	0.00054	0.010	<0.0010	<0.020	0.00057	35	<0.0010	<0.00030	0.023	1.8	<0.00020	<0.020	6.0	0.013	<0.00020	0.0018	<0.10	3.0	0.00024	0.70	<0.00010	3.0	0.037	30	<0.00020	<0.0010	0.003	<0.00010	<0.0010	0.15
	4-Sep-24		0.071	<0.00060	0.00034	0.012	<0.0010	<0.020	0.00037	34	<0.0010	<0.00030	0.014	3.0	<0.00020	<0.020	6.4	0.026	<0.00020	0.00093	<0.10	3.2	<0.00020	0.65	<0.00010	2.8	0.044	33	<0.00020	<0.0010	0.0024	<0.00010	<0.0010	0.092
	17-Sep-24		0.056	<0.00060	0.00041	0.013	<0.0010	<0.020	0.00036	39	<0.0010	<0.00030	0.016	3.3	0.00089	<0.020	6.4	0.018	<0.00020	0.0011	<0.10	3.6	<0.00020	0.60	<0.00010	3.1	0.045	34	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.11
	2-Oct-24		0.11	<0.00060	0.00034	0.013	<0.0010	<0.020	0.00052	39	<0.0010	0.00033	0.023	3.4	0.00050	<0.020	6.8	0.033	<0.00020	0.0015	<0.10	3.4	<0.00020	0.61	<0.00010	3.0	0.048	37	<0.00020	<0.0010	0.0045	<0.00010	<0.0010	0.15
	17-Oct-24		0.15	<0.00060	0.00034	0.012	<0.0010	<0.020	0.00049	38	<0.0010	0.00040	0.023	4.5	<0.00020	<0.020	6.7	0.046	<0.00020	0.0013	<0.10	3.5	<0.00020	0.85	<0.00010	2.8	0.042	42	<0.00020	<0.0010	0.0054	<0.00010	<0.0010	0.15
		SW-135	0.23	<0.00060	0.00053	0.013	<0.0010	<0.020	0.00086	42	<0.0010	0.00068	0.041	4.4	0.00041	<0.020	6.9	0.045	<0.00020	0.0021	<0.10	3.6	0.00027	0.83	<0.00010	3.3	0.047	42	<0.00020	<0.0010	0.0084	<0.00010	<0.0010	0.28
	RPD		*42%*	*NC*	*44%*	*8%*	*NC*	*NC*	*55%*	*10%*	*NC*	*52%*	*56%*	*2%*	*NC*	*NC*	*3%*	*2%*	*NC*	*47%*	*NC*	*3%*	*NC*	*2%*	*NC*	*16%*	*11%*	*0%*	*NC*	*NC*	*43%*	*NC*	*NC*	*60%*
EB-2	21-Feb-24		0.049	<0.00060	0.00037	0.024	<0.0010	0.025	0.00097	97	<0.0010	0.00082	0.018	1.1	<0.00020	<0.020	14	0.15	<0.00020	0.0023	<0.10	7.7	<0.00020	1.3	<0.00010	5.3	0.097	98	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.28
	28-May-24		0.23	<0.00060	0.00029	0.017	<0.0010	<0.020	0.0029	74	<0.0010	0.0049	0.057	1.2	<0.00020	<0.020	11	0.44	<0.00020	0.0053	<0.10	5.1	<0.00020	1.3	<0.00010	3.9	0.072	76	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.75
	11-Jun-24		0.33	<0.00060	0.00032	0.016	<0.0010	<0.020	0.0029	57	<0.0010	0.0047	0.099	1.2	<0.00020	<0.020	9.4	0.27	0.00022	0.0055	<0.10	4.1	<0.00020	1.3	<0.00010	3.5	0.066	54	<0.00020	<0.0010	0.0025	0.00012	<0.0010	0.82
	25-Jun-24		0.32	<0.00060	0.00047	0.012	<0.0010	<0.020	0.0022	36	<0.0010	0.0038	0.071	0.82	<0.00020	<0.020	6.6	0.16	<0.00020	0.0050	<0.10	3.0	<0.00020	1.3	<0.00010	2.6	0.043	38	<0.00020	<0.0010	0.0088	0.00012	<0.0010	0.60
	10-Jul-24		0.11	<0.00060	0.00031	0.011	<0.0010	<0.020	0.0010	32	<0.0010	0.0012	0.033	0.52	0.00056	<0.020	5.9	0.091	<0.00020	0.0024	<0.10	2.8	<0.00020	1.2	<0.00010	2.5	0.042	30	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.28
	23-Jul-24		0.098	<0.00060	0.00052	0.011	<0.0010	<0.020	0.00094	30	0.0086	0.00048	0.031	0.60	<0.00020	<0.020	5.7	0.039	0.0011	0.0046	<0.10	2.8	<0.00020	0.94	<0.00010	2.6	0.036	27	<0.00020	<0.0010	0.0025	<0.00010	<0.0010	0.26
	7-Aug-24		0.092	<0.00060	0.00029	0.010	<0.0010	<0.020	0.00039	31	<0.0010	<0.00030	0.015	1.0	0.00050	<0.020	5.6	0.013	<0.00020	0.0014	<0.10	2.9	<0.00020	0.87	<0.00010	2.6	0.037	29	<0.00020	<0.0010	0.004	<0.00010	<0.0010	0.099
	20-Aug-24		0.059	<0.00060	0.00040	0.011	<0.0010	<0.020	0.00040	32	<0.0010	<0.00030	0.014	1.7	<0.00020	<0.020	5.6	0.013	<0.00020	0.0011	<0.10	2.9	0.00021	0.67	<0.00010	2.6	0.039	29	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.11
	4-Sep-24		0.077	<0.00060	0.00033	0.013	<0.0010	<0.020	0.00036	36	<0.0010	<0.00030	0.014	2.6	<0.00020	<0.020	6.6	0.016	0.0021	0.0010	<0.10	3.2	<0.00020	0.65	<0.00010	2.9	0.046	35	<0.00020	<0.0010	0.0029	<0.00010	<0.0010	0.094
			0.083	<0.00060	0.00039	0.013	<0.0010	<0.020	0.00037	37	<0.0010	<0.00030	0.013	2.6	<0.00020	<0.020	6.7	0.016	0.0017	0.00091	<0.10	3.3	<0.00020	0.68	<0.00010	2.9	0.047	35	<0.00020	<0.0010	0.0040	<0.00010	<0.0010	0.093
	RPD		*8%*	*NC*	*17%*	*0%*	*NC*	*NC*	*3%*	*3%*	*NC*	*NC*	*7%*	*0%*	*NC*	*NC*	*2%*	*0%*	*21%*	*9%*	*NC*	*3%*	*NC*	*5%*	*NC*	*0%*	*2%*	*0%*	*NC*	*NC*	*32%*	*NC*	*NC*	*1%*
	17-Sep-24		0.069	<0.00060	0.00039	0.013	<0.0010	<0.020	0.00039	38	<0.0010	<0.00030	0.014	2.7	0.00068	<0.020	6.5	0.015	<0.00020	0.0011	<0.10	3.3	0.00023	0.62	<0.00010	2.9	0.048	36	<0.00020	<0.0010	0.0026	<0.00010	<0.0010	0.10
	2-Oct-24		0.26	<0.00060	0.00065	0.013	<0.0010	0.022	0.00064	38	<0.0010	0.00044	0.024	3.3	0.00038	<0.020	6.8	0.029	<0.00020	0.0023	<0.10	3.2	0.00021	0.86	<0.00010	2.8	0.042	38	<0.00020	<0.0010	0.012	<0.00010	<0.0010	0.19
	17-Oct-24		0.16	<0.00060	0.00039	0.012	<0.0010	<0.020	0.00055	39	<0.0010	0.00045	0.021	3.7	<0.00020	<0.020	6.6	0.040	<0.00020	0.0015	<0.10	3.5	<0.00020	0.73	<0.00010	2.8	0.043	43	<0.00020	<0.0010	0.0057	<0.00010	<0.0010	0.16
Camp Lake Discharge	21-Feb-24		0.035	<0.00060	0.00038	0.020	<0.0010	0.020	0.00067	83	<0.0010	0.00050	0.011	1.2	<0.00020	<0.020	13	0.15	<0.00020	0.0016	<0.10	6.6	<0.00020	1.4	<0.00010	4.7	0.072	96	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.20
		SW-102	0.051	<0.00060	0.00046	0.021	<0.0010	0.022	0.00097	86	<0.0010	0.00072	0.016	1.1	<0.00020	<0.020	13	0.14	<0.00020	0.0025	<0.10	6.8	<0.00020	1.2	<0.00010	4.8	0.085	86	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.28
	RPD		*37%*	*NC*	*19%*	*5%*	*NC*	*10%*	*37%*	*4%*	*NC*	*36%*	*37%*	*9%*	*NC*	*NC*	*0%*	*7%*	*NC*	*44%*	*NC*	*3%*	*NC*	*15%*	*NC*	*2%*	*17%*	*11%*	*NC*	*NC*	*11%*	*NC*	*NC*	*33%*
	28-May-24		0.10	<0.00060	0.00028	0.014	<0.0010	<0.020	0.0015	73	<0.0010	0.0020	0.032	1.8	<0.00020	<0.020	11	0.32	<0.00020	0.0024	<0.10	5.0	<0.00020	1.2	<0.00010	3.5	0.066	76	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.40
	11-Jun-24		0.15	<0.00060	0.00035	0.014	<0.0010	<0.020	0.0015	48	<0.0010	0.0020	0.055	1.8	<0.00020	<0.020	8.0	0.20	0.00220	0.0027	<0.10	3.8	<0.00020	1.4	<0.00010	3.1	0.057	49	<0.00020	<0.0010	0.0023	<0.00010	<0.0010	0.46
	25-Jun-24		0.15	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00089	24	<0.0010	0.0010	0.040	0.99	<0.00020	<0.020	4.6	0.076	<0.00020	0.0017	<0.10	2.3	<0.00020	1.0	<0.00010	2.1	0.029	22	<0.00020	<0.0010	0.0032	<0.00010	<0.0010	0.27
	10-Jul-24		0.053	<0.00060	0.00033	0.011	<0.0010	<0.020	0.00051	19	<0.0010	<0.00030	0.025	0.40	<0.00020	<0.020	4.0	0.028	<0.00020	0.0011	<0.10	1.9	<0.00020	0.92	<0.00010	2.0	0.027	14	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.16
	23-Jul-24		0.041	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.00044	19	<0.0010	<0.00030	0.022	0.47	<0.00020	<0.020	4.0	0.012	0.00034	0.0011	<0.10	1.9	<0.00020	0.78	<0.00010	2.0	0.027	14	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.14
	7-Aug-24		0.057	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00031	26	<0.0010	<0.00030	0.016	1.7	<0.00020	<0.020	5.0	0.020	<0.00020	0.0010	<0.10	2.5	<0.00020	0.93	<0.00010	2.4	0.035	21	<0.00020	<0.0010	0.0037	<0.00010	<0.0010	0.088
	20-Aug-24		0.15	<0.00060	0.00067	<0.010	<0.0010	<0.020	0.00043	27	<0.0010	<0.00030	0.023	2.2	0.0096	<0.020	5.0	0.022	<0.00020	0.0015	<0.10	2.5	0.00026	0.85	<0.00010	2.6	0.031	22	<0.00020	<0.0010	0.0079	<0.00010	<0.0010	0.13
	4-Sep-24		0.063	<0.00060	0.0004	0.011	<0.0010	<0.020	0.00027	31	<0.0010	<0.00030	0.013	3.9	<0.00020	<0.020	6.1	0.024	<0.00020	0.00074	<0.10	2.8	<0.00020	0.74	<0.00010	2.5	0.041	29	<0.00020	<0.0010	0.0029	<0.00010	<0.0010	0.072
	17-Sep-24		0.047	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00026	33	<0.0010	<0.00030	0.012	4.1	0.00024	<0.020	6.1	0.027	<0.00020	0.00096	<0.10	2.9	<0.00020	0.73	<0.00010	2.6	0.042	31	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.071
		SW-129	0.049	<0.00060	0.00051	0.011	<0.0010	<0.020	0.00029	37	<0.0010	<0.00030	0.013	4.0	0.00020	<0.020	6.0	0.027	<0.00020	0.00084	<0.10	3.4	<0.00020	0.73	<0.00010	3.0	0.041	30	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.080
	2-Oct-24		0.13	<0.00060	0.00048	0.010	<0.0010	<0.020	0.00037	35	<0.0010	0.00032	0.015	5.6	0.00034	<0.020	6.5	0.05	<0.00020	0.0012	<0.10	2.9	<0.00020	0.85	<0.00010	2.5	0.038	35	<0.00020	<0.0010	0.0069	<0.00010	<0.0010	0.11
	17-Oct-24		0.19	<0.00060	0.00035	0.011	<0.0010	<0.020	0.00033	37	<0.0010	0.00037	0.014	5.8	0.00054	<0.020	6.6	0.061	<0.00020	0.00094	<0.10	3.3	<0.00020	1.0	<0.00010	2.6	0.040	41	<0.00020	<0.0010	0.010	<0.00010	<0.0010	0.09
Laboratory Detection Limits			*0.0030*	*0.00060*	*0.00020*	*0.010*	*0.0010*	*0.020*	*0.020*	*0.30*	*0.0010*	*0.00030*	*0.0010*	*0.060*	*0.00020*	*0.020*	*0.20*	*0.0040*	*0.00020*	*0.00050*	*0.10*	*0.30*	*0.00020*	*0.10*	*0.00010*	*0.50*	*0.020*	*0.20*	*0.00020*	*0.0010*	*0.0010*	*0.00010*	*0.0010*	*0.0030*
Manitoba Water Quality Standards, Objectives, and Guidelines [2]																																	
Protection of Aquatic Life and Wildlife																																	
Tier II Objective - Chronic			-	-	-	-	-	-	*0.00018* [2a]	-	*0.056* [2a]	-	*0.00598* [2a]	-	*0.00164* [2a]	-	-	-	-	*0.0336* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	*0.0771* [2a]
Tier II Objective - Acute			-	-	-	-	-	-	*0.00125* [2a]	-	*1.176* [2a]	-	*0.00857* [2a]	-	*0.04207* [2a]	-	-	-	-	*0.3020* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	*0.0771* [2a]
Tier III Guideline			*0.1 (pH ≥ 6.5) 0.005 (pH <6.5)*	-	-	-	-	-	-	-	-	-	-	*0.3*	-	-	-	-	-	-	*0.073*	-	-	*0.001*	-	*0.0001*	-	-	-	*0.0008*	-	-	*0.015*	-	-
Camp Lake Water Quality Performance Objectives [3]																																	
Sampling Event Dates	21-Feb-24		*0.071* [3a]	-	-	-	-	-	*0.00011* [3a]	-	-	-	*0.00533* [3b]	*0.263* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.0700* [3a]
	28-May-24		*0.045* [3a]	-	-	-	-	-	*0.00055* [3a]	-	-	-	*0.01820* [3b]	*0.125* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.1625* [3a]
	11-Jun-24		*0.12* [3a]	-	-	-	-	-	*0.00076* [3a]	-	-	-	*0.03510* [3b]	*0.175* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.2625* [3a]
	25-Jun-24		*0.15* [3a]	-	-	-	-	-	*0.00115* [3a]	-	-	-	*0.05720* [3b]	*0.263* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.3750* [3a]
	10-Jul-24		*0.070* [3a]	-	-	-	-	-	*0.00045* [3a]	-	-	-	*0.01560* [3b]	*0.338* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.1500* [3a]
	23-Jul-24		*0.060* [3a]	-	-	-	-	-	*0.00028* [3a]	-	-	-	*0.01430* [3b]	*0.275* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.08375* [3a]
	7-Aug-24		*0.048* [3a]	-	-	-	-	-	*0.00026* [3a]	-	-	-	*0.01430* [3b]	*0.238* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.0825* [3a]
	20-Aug-24		*0.14* [3a]	-	-	-	-	-	*0.00044* [3a]	-	-	-	*0.02730* [3b]	*0.600* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.1375* [3a]
	4-Sep-24		*0.045* [3a]	-	-	-	-	-	*0.00016* [3a]	-	-	-	*0.00754* [3b]	*0.525* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.0713* [3a]
	17-Sep-24		*0.050* [3a]	-	-	-	-	-	*0.00051* [3a]	-	-	-	*0.01690* [3b]	*0.463* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.2250* [3a]
	2-Oct-24		*0.070* [3a]	-	-	-	-	-	*0.00096* [3a]	-	-	-	*0.04290* [3b]	*0.325* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.4125* [3a]
	17-Oct-24		*0.053* [3a]	-	-	-	-	-	*0.00043* [3a]	-	-	-	*0.01820* [3b]	*0.325* [3a]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.1750* [3a]

Notes:
"-" = No Data
NC = Not Calculated
RPD = Relative Percent Difference

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.
   a. Calculated as per Manitoba Conservation (2011) using mean total hardness of 59.4 mg/L as $CaCO_3$ as measured in Cold Lake on May 11, 2016.
3. Camp Lake Water Quality Performance Objectives (CLWQPO). Final Adaptive Management Plan - Sherridon Orphaned Mine Site Reclamation Project, August 16, 2022.
   a. Aluminum, cadmium, iron, and zinc objectives calculated as ambient SC-1 + 25%. The 25% allowance is to account for sampling and analytical variation as per DJRC (2022).
   b. Copper objectives calculated as ambient SC-1 + 30%. Based on pre-construction prediction that total Cu will be 5 to 10% higher than in Sherlett Creek (from SENES 2008) plus 25% allowance for sampling and analytical variation as per DJRC (2022).
   c. Ambient SC-1 refers to the concentration measured at Sherlett Creek station SC-1 within the previous 7 days.

- Values above Tier II Chronic MWQSOG value.
- Values above Tier II Acute MWQSOG value.
- Values above Tier III MWQSOG guideline.
BOLD - Values above CLWQPO value.

TABLE 6
TOTAL METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter[1]																														
			Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (Ar)	Total Barium (Ba)	Total Beryllium (Be)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)	Total Molybdenum (Mb)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (Tl)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
Sherlett Creek																																		
SC-1	21-Feb-24		0.057	<0.00060	0.00059	0.010	<0.0010	<0.020	0.000087	11	<0.0010	<0.00030	0.0041	0.21	<0.00020	<0.020	3.2	0.026	<0.00020	0.00062	<0.10	1.6	<0.00020	1.7	<0.00010	4.6	0.026	1.9	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.056
	28-May-24		0.036	<0.00060	0.00040	<0.010	<0.0010	<0.020	0.00044	8.6	<0.0010	<0.00030	0.014	0.10	<0.00020	<0.020	2.6	0.015	<0.00020	0.00056	<0.10	1.2	<0.00020	1.3	<0.00010	1.7	0.020	2.0	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.13
		SW-105	0.049	<0.00060	0.00061	<0.010	<0.0010	<0.020	0.00055	8.8	<0.0010	<0.00030	0.019	0.13	<0.00020	<0.020	2.8	0.015	<0.00020	0.00062	<0.10	1.4	0.00020	1.3	<0.00010	1.7	0.021	2.1	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.17
	RPD		*31%*	*NC*	*42%*	*NC*	*NC*	*NC*	*22%*	*2%*	*NC*	*NC*	*30%*	*26%*	*NC*	*NC*	*7%*	*0%*	*NC*	*10%*	*NC*	*15%*	*NC*	*0%*	*NC*	*0%*	*5%*	*5%*	*NC*	*NC*	*9%*	*NC*	*NC*	*27%*
	11-Jun-24		0.095	<0.00060	0.00059	<0.010	<0.0010	<0.020	0.00061	8.2	<0.0010	<0.00030	0.027	0.14	<0.00020	<0.020	2.6	0.014	<0.00020	0.00076	<0.10	1.2	<0.00020	1.2	<0.00010	1.7	0.022	1.9	<0.00020	<0.0010	0.0036	<0.00010	<0.0010	0.21
	25-Jun-24		0.12	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.00092	8.8	<0.0010	0.00045	0.044	0.21	<0.00020	<0.020	2.8	0.025	<0.00020	0.00087	<0.10	1.3	<0.00020	1.2	<0.00010	1.6	0.021	2.5	<0.00020	<0.0010	0.0049	<0.00010	<0.0010	0.30
	10-Jul-24		0.056	<0.00060	0.00046	<0.010	<0.0010	<0.020	0.00036	8.4	<0.0010	<0.00030	0.012	0.27	<0.00020	<0.020	2.4	0.029	<0.00020	0.0008	<0.10	1.3	<0.00020	1.1	<0.00010	1.7	<0.020	1.8	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.12
	23-Jul-24		0.048	<0.00060	0.00062	<0.010	<0.0010	0.042	0.00022	7.8	0.0098	<0.00030	0.011	0.22	<0.00020	0.060	2.6	0.027	0.0015	0.0033	<0.10	1.2	<0.00020	0.98	<0.00010	1.6	<0.020	1.3	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.067
	7-Aug-24		0.038	<0.00060	0.0005	<0.010	<0.0010	<0.020	0.00021	7.8	<0.0010	<0.00030	0.011	0.19	<0.00020	<0.020	2.5	0.027	<0.00020	0.00050	<0.10	1.3	<0.00020	1.1	<0.00010	1.6	<0.020	1.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.066
	20-Aug-24		0.11	<0.00060	0.00089	<0.010	<0.0010	<0.020	0.00035	9.5	<0.0010	0.00046	0.021	0.48	0.00036	<0.020	2.8	0.073	<0.00020	0.00096	<0.10	1.5	<0.00020	1.3	<0.00010	4.3	0.021	1.3	<0.00020	<0.0010	0.0060	<0.00010	<0.0010	0.11
	4-Sep-24		0.036	<0.00060	0.00056	<0.010	<0.0010	<0.020	0.00013	9.1	<0.0010	<0.00030	0.0058	0.42	<0.00020	<0.020	3.0	0.041	0.0024	<0.00050	<0.10	1.5	<0.00020	1.3	<0.00010	2.8	0.024	1.6	<0.00020	<0.0010	0.0013	<0.00010	<0.0010	0.057
		SW-126	0.036	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.00013	9.6	<0.0010	<0.00030	0.0056	0.42	<0.00020	<0.020	3.0	0.041	0.0021	<0.00050	<0.10	1.5	<0.00020	1.2	<0.00010	3.0	0.024	1.6	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.058
	RPD		*0%*	*NC*	*29%*	*NC*	*NC*	*NC*	*0%*	*5%*	*NC*	*NC*	*4%*	*0%*	*NC*	*NC*	*0%*	*0%*	*13%*	*NC*	*NC*	*0%*	*NC*	*8%*	*NC*	*7%*	*0%*	*0%*	*NC*	*NC*	*17%*	*NC*	*NC*	*2%*
	17-Sep-24		0.040	<0.00060	0.00058	<0.010	<0.0010	<0.020	0.00041	9.8	<0.0010	<0.00030	0.013	0.37	<0.00020	<0.020	3.0	0.043	<0.00020	0.00079	<0.10	1.7	<0.00020	1.3	<0.00010	2.9	0.024	2.2	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.18
	2-Oct-24		0.056	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.00077	9.6	<0.0010	0.00030	0.033	0.26	<0.00020	<0.020	3.0	0.035	<0.00020	0.00083	<0.10	1.7	<0.00020	1.2	<0.00010	3.3	0.024	3.3	<0.00020	<0.0010	0.0038	<0.00010	<0.0010	0.33
	17-Oct-24		0.042	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00034	8.9	<0.0010	<0.00030	0.014	0.26	<0.00020	0.037	2.9	0.034	<0.00020	0.00054	<0.10	1.6	<0.00020	1.1	<0.00010	3.2	0.021	2.6	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.14
SC-2	11-Jun-24		0.066	<0.00060	0.00046	<0.010	<0.0010	<0.020	0.0010	9.2	<0.0010	0.00040	0.040	0.12	<0.00020	<0.020	2.8	0.019	<0.00020	0.00063	<0.10	1.4	<0.00020	1.0	<0.00010	1.7	0.024	2.1	<0.00020	<0.0010	0.0020	<0.00010	<0.0010	0.35
	2-Oct-24		0.073	<0.00060	0.00050	<0.010	<0.0010	<0.020	0.0013	9.1	<0.0010	0.00047	0.044	0.25	<0.00020	<0.020	2.9	0.043	<0.00020	0.00096	<0.10	1.6	<0.00020	1.3	<0.00010	2.9	0.022	3.3	<0.00020	<0.0010	0.0027	<0.00010	<0.0010	0.49
SC-3	11-Jun-24		0.077	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.0013	8.6	<0.0010	0.00053	0.052	0.13	<0.00020	<0.020	2.6	0.024	0.00023	0.00075	<0.10	1.3	<0.00020	1.2	<0.00010	1.6	0.023	2.6	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.42
	2-Oct-24		0.069	<0.00060	0.00050	<0.010	<0.0010	<0.020	0.0020	11	<0.0010	0.00070	0.068	0.24	<0.00020	<0.020	3.4	0.054	<0.00020	0.0010	<0.10	1.9	<0.00020	1.5	<0.00010	3.4	0.027	5.5	<0.00020	<0.0010	0.0022	<0.00010	<0.0010	0.70
SC-4	11-Jun-24		0.076	<0.00060	0.00045	<0.010	<0.0010	<0.020	0.000032	7.8	<0.0010	<0.00030	0.0043	0.15	<0.00020	<0.020	2.5	0.0098	0.0021	0.00055	<0.10	1.1	<0.00020	1.1	<0.00010	1.5	0.021	1.3	<0.00020	<0.0010	0.0033	<0.00010	<0.0010	0.0095
	2-Oct-24		0.050	<0.00060	0.00050	<0.010	<0.0010	<0.020	0.000033	8.3	<0.0010	<0.00030	0.0056	0.22	<0.00020	<0.020	2.6	0.022	<0.00020	0.00083	<0.10	1.5	<0.00020	1.2	<0.00010	2.1	0.022	1.3	<0.00020	<0.0010	0.0023	<0.00010	<0.0010	0.016
SC-5	11-Jun-24		0.036	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.000031	9.3	<0.0010	<0.00030	0.0049	0.12	<0.00020	<0.020	2.9	0.0091	<0.00020	0.00051	<0.10	1.4	<0.00020	1.2	<0.00010	1.8	0.024	2.3	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.013
	2-Oct-24		0.054	<0.00060	0.00067	<0.010	<0.0010	0.020	<0.000020	7.7	<0.0010	<0.00030	0.0054	0.23	0.00035	<0.020	2.6	0.019	0.00022	0.00096	<0.10	1.3	<0.00020	1.4	<0.00010	1.6	<0.020	1.2	<0.00020	<0.0010	0.0033	<0.00010	<0.0010	0.0062
		SW-133	0.049	<0.00060	0.00048	<0.010	<0.0010	<0.020	<0.000020	7.8	0.0015	<0.00030	0.0042	0.22	<0.00020	<0.020	2.6	0.019	0.00021	0.0027	<0.10	1.3	<0.00020	1.3	<0.00010	1.6	<0.020	1.2	<0.00020	<0.0010	0.0022	<0.00010	<0.0010	0.005
	RPD		*10%*	*NC*	*33%*	*NC*	*NC*	*NC*	*NC*	*1%*	*NC*	*NC*	*25%*	*4%*	*NC*	*NC*	*0%*	*0%*	*NC*	*NC*	*NC*	*0%*	*NC*	*7%*	*NC*	*0%*	*NC*	*0%*	*NC*	*NC*	*40%*	*NC*	*NC*	*21%*
SC-6	11-Jun-24		0.046	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.000047	8.3	<0.0010	<0.00030	0.013	0.12	<0.00020	<0.020	2.7	0.0084	0.00029	0.00067	<0.10	1.3	<0.00020	1.2	<0.00010	1.6	0.022	1.4	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.011
		SW-109	0.047	<0.00060	0.00039	<0.010	<0.0010	<0.020	0.000050	8.2	<0.0010	<0.00030	0.013	0.12	<0.00020	<0.020	2.6	0.0082	0.0080	<0.00050	<0.10	1.2	<0.00020	1.2	<0.00010	1.6	0.022	1.4	<0.00020	<0.0010	0.0013	<0.00010	<0.0010	0.011
	RPD		*2%*	*NC*	*8%*	*NC*	*NC*	*NC*	*6%*	*1%*	*NC*	*NC*	*0%*	*0%*	*NC*	*NC*	*4%*	*2%*	*NC*	*NC*	*NC*	*8%*	*NC*	*0%*	*NC*	*0%*	*0%*	*0%*	*NC*	*NC*	*17%*	*NC*	*NC*	*0%*
	2-Oct-24		0.035	<0.00060	0.00047	<0.010	<0.0010	<0.020	<0.000020	8.0	<0.0010	<0.00030	0.0027	0.17	<0.00020	<0.020	2.5	0.019	<0.00020	0.00063	<0.10	1.2	<0.00020	1.2	<0.00010	1.6	0.021	1.1	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	<0.0030
Laboratory Detection Limits			*0.0030*	*0.00060*	*0.00020*	*0.010*	*0.0010*	*0.020*	*0.000020*	*0.30*	*0.0010*	*0.00030*	*0.0010*	*0.060*	*0.00020*	*0.020*	*0.20*	*0.0040*	*0.000200*	*0.00050*	*0.10*	*0.30*	*0.00020*	*0.10-0.50*	*0.00010*	*0.50*	*0.020*	*0.20*	*0.00020*	*0.0010*	*0.0010*	*0.00010*	*0.0010*	*0.0030*
Manitoba Water Quality Standards, Objectives, and Guidelines [2]																																	
Protection of Aquatic Life and Wildlife																																	
Tier II Objective - Chronic			-	-	-	-	-	-	*0.000125* [2a]	-	*0.0368* [2a]	-	*0.0038* [2b]	-	*0.00085* [2a]	-	-	-	-	*0.02168* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	*0.04972* [2a]
Tier II Objective - Acute			-	-	-	-	-	-	*0.000742* [2a]	-	*0.7706* [2a]	-	*0.0053* [2b]	-	*0.02178* [2a]	-	-	-	-	*0.19497* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	*0.04972* [2a]
Tier III Guideline			*0.1 (pH ≥ 6.5)* *0.005 (pH <6.5)*	-	-	-	-	-	-	-	-	-	-	*0.3*	-	-	-	-	-	*0.073*	-	-	*0.001*	-	*0.0001*	-	-	-	*0.0008*	-	-	*0.015*	-	-

Notes:
"-" = No Data
EQL = Estimated Quantitation Limit = Lowest level of the parameter that can be quantified with confidence
NC = Not Calculated
RPD = Relative Percent Difference

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.
   a. Calculated as per Manitoba Conservation (2011) using mean dissolved hardness of 34.44 mg/L as $CaCO_3$ as measured at station SC-1 in 2024.

- Values above Tier II Chronic MWQSOG value.
- Values above Tier II Acute MWQSOG value.
- Values above Tier III MWQSOG guideline.

Sample ID	Date	Field Duplicate Sample ID	Parameter[1]																														
			Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (Ar)	Total Barium (Ba)	Total Beryllium (Be)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)	Total Molybdenum (Mb)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (Tl)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
Cold Lake																																	
CL-2 sfc	21-Feb-24		0.036	<0.00060	0.0010	0.011	<0.0010	<0.020	0.00013	12	0.0036	<0.00030	0.0087	0.096	0.0016	<0.020	3.5	<0.0040	<0.00020	0.0016	<0.10	1.6	<0.00020	0.66	<0.00010	2.4	0.03	4.4	<0.00020	<0.0010	0.0020	<0.00010	<0.0010	0.021
		SW-101	0.026	<0.00060	0.00077	0.011	<0.0010	<0.020	0.000098	12	0.0027	<0.00030	0.0081	0.11	0.00094	<0.020	3.6	<0.0040	<0.00020	0.00089	<0.10	1.7	<0.00020	0.71	<0.00010	2.4	0.033	4.5	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.015
	RPD		*32%*	*NC*	*26%*	*NC*	*NC*	*NC*	*28%*	*0%*	*NC*	*NC*	*7%*	*14%*	*NC*	*NC*	*3%*	*NC*	*NC*	*57%*	*NC*	*6%*	*NC*	*7%*	*NC*	*0%*	*10%*	*2%*	*NC*	*NC*	*NC*	*NC*	*NC*	*33%*
	28-May-24		0.043	<0.00060	0.00054	<0.010	<0.0010	<0.020	0.000053	14	<0.0010	<0.00030	0.0044	0.27	<0.00020	<0.020	3.7	0.022	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.89	<0.00010	2.2	0.028	7.2	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.020
	11-Jun-24		0.070	<0.00060	0.00067	<0.010	<0.0010	<0.020	0.00020	15	<0.0010	<0.00030	0.011	0.32	<0.00020	<0.020	3.6	0.026	<0.00020	0.00089	<0.10	1.7	<0.00020	0.88	<0.00010	2.1	0.032	10	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.067
	25-Jun-24		0.058	<0.00060	0.00034	<0.010	<0.0010	<0.020	0.00015	14	0.0023	<0.00030	0.0091	0.28	<0.00020	<0.020	3.3	0.017	0.00033	0.0018	<0.10	1.6	<0.00020	0.74	<0.00010	1.9	0.024	9.4	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.050
	10-Jul-24		0.055	<0.00060	0.00042	0.012	<0.0010	<0.020	0.00025	15	<0.0010	<0.00030	0.015	0.22	<0.00020	<0.020	3.5	0.014	0.00032	0.00084	<0.10	1.6	<0.00020	0.83	<0.00010	2.0	0.026	9.6	<0.00020	<0.0010	0.0010	<0.00010	<0.0010	0.083
		SW-114	0.057	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.00027	15	<0.0010	<0.00030	0.015	0.26	<0.00020	<0.020	3.7	0.016	<0.00020	0.00089	<0.10	1.8	<0.00020	0.93	<0.00010	2.1	0.029	10	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.082
	RPD		*4%*	*NC*	*2%*	*NC*	*NC*	*NC*	*8%*	*0%*	*NC*	*NC*	*0%*	*17%*	*NC*	*NC*	*6%*	*13%*	*NC*	*6%*	*NC*	*12%*	*NC*	*11%*	*NC*	*5%*	*11%*	*4%*	*NC*	*NC*	*40%*	*NC*	*NC*	*1%*
	23-Jul-24		0.050	<0.00060	0.00053	<0.010	<0.0010	<0.020	0.00021	13	<0.0010	<0.00030	0.014	0.17	<0.00020	<0.020	3.4	0.0073	0.00022	0.0012	<0.10	1.6	<0.00020	0.69	<0.00010	2.0	0.025	8.2	<0.00020	<0.0010	0.0013	<0.00010	<0.0010	0.070
	7-Aug-24		0.042	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.00012	13	<0.0010	<0.00030	0.0091	0.24	<0.00020	<0.020	3.4	0.011	<0.00020	0.00062	<0.10	1.7	<0.00020	0.78	<0.00010	2.0	0.026	8.4	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.033
	20-Aug-24		0.043	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.000081	15	<0.0010	<0.00030	0.0083	0.26	<0.00020	<0.020	3.6	0.0098	<0.00020	0.00066	<0.10	1.7	<0.00020	0.68	<0.00010	2.3	0.028	8.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.028
	4-Sep-24		0.038	<0.00060	0.0004	0.011	<0.0010	<0.020	0.000065	14	<0.0010	<0.00030	0.0075	0.45	0.00058	<0.020	3.9	0.029	<0.00020	0.00093	<0.10	1.7	<0.00020	0.78	<0.00010	2.2	0.031	8.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.021
	17-Sep-24		0.033	<0.00060	0.00051	0.011	<0.0010	<0.020	0.000046	17	<0.0010	<0.00030	0.0078	0.40	<0.00020	<0.020	3.6	0.020	<0.00020	0.00053	<0.10	2.1	<0.00020	0.78	<0.00010	2.6	0.03	8.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.019
	2-Oct-24		0.053	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.000051	14	<0.0010	<0.00030	0.0078	0.58	<0.00020	<0.020	3.4	0.035	<0.00020	0.00070	<0.10	1.7	<0.00020	0.8	<0.00010	2.1	0.029	7.3	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.017
	17-Oct-24		0.054	<0.00060	0.00042	<0.010	<0.0010	0.024	0.000032	13	<0.0010	<0.00030	0.0064	0.63	0.00023	<0.020	3.4	0.020	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.94	<0.00010	2.0	0.026	8.2	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.013
CL-2 btm	21-Feb-24		0.039	<0.00060	0.00063	0.011	<0.0010	<0.020	0.000097	15	<0.0010	<0.00030	0.0085	0.43	0.00025	<0.020	3.8	0.029	<0.00020	0.00081	<0.10	1.7	<0.00020	1.2	<0.00010	2.2	0.032	9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.026
	28-May-24		0.046	<0.00060	0.00062	<0.010	<0.0010	<0.020	0.00006	13	<0.0010	<0.00030	0.0048	0.33	<0.00020	<0.020	3.6	0.028	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.95	<0.00010	2.1	0.028	7.4	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.020
	11-Jun-24		0.055	<0.00060	0.00042	0.010	<0.0010	<0.020	0.00011	15	<0.0010	<0.00030	0.0072	0.42	<0.00020	<0.020	3.8	0.030	0.00035	0.00068	<0.10	1.7	<0.00020	1.1	<0.00010	2.3	0.033	9.8	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.038
		SW-107	0.057	<0.00060	0.00053	0.010	<0.0010	<0.020	0.00014	15	<0.0010	<0.00030	0.0085	0.39	0.00029	<0.020	3.6	0.029	<0.00020	0.00081	<0.10	1.6	<0.00020	0.97	<0.00010	2.2	0.031	9.3	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	0.045
	RPD		*4%*	*NC*	*23%*	*0%*	*NC*	*NC*	*24%*	*0%*	*NC*	*NC*	*17%*	*7%*	*NC*	*NC*	*5%*	*3%*	*NC*	*17%*	*NC*	*6%*	*NC*	*13%*	*NC*	*4%*	*6%*	*5%*	*NC*	*NC*	*48%*	*NC*	*NC*	*17%*
	25-Jun-24		0.058	<0.00060	0.00036	<0.010	<0.0010	<0.020	0.00014	13	<0.0010	<0.00030	0.0079	0.43	<0.00020	<0.020	3.2	0.026	<0.00020	0.00058	<0.10	1.6	<0.00020	0.77	<0.00010	1.9	0.024	8.5	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.042
	10-Jul-24		0.051	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.00019	15	<0.0010	<0.00030	0.012	0.24	<0.00020	<0.020	3.7	0.015	<0.00020	0.00083	<0.10	1.7	<0.00020	0.95	<0.00010	2.1	0.029	10	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.064
	23-Jul-24		0.062	<0.00060	0.0007	<0.010	<0.0010	<0.020	0.00024	14	<0.0010	<0.00030	0.015	0.25	<0.00020	<0.020	3.5	0.013	<0.00020	0.00097	<0.10	1.6	<0.00020	0.93	<0.00010	2.0	0.024	9.1	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.078
	7-Aug-24		0.055	<0.00060	0.00065	0.011	<0.0010	<0.020	0.00018	14	<0.0010	<0.00030	0.012	0.49	<0.00020	<0.020	3.6	0.056	0.00025	0.00091	<0.10	1.7	0.00021	1.0	<0.00010	2.2	0.029	8.6	<0.00020	<0.0010	0.0013	<0.00010	<0.0010	0.056
	20-Aug-24		0.051	<0.00060	0.00061	<0.010	<0.0010	<0.020	0.00012	14	<0.0010	<0.00030	0.011	0.25	0.00023	<0.020	3.4	0.0092	<0.00020	0.00083	<0.10	1.6	<0.00020	0.62	<0.00010	2.2	0.025	7.7	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.040
	4-Sep-24		0.040	<0.00060	0.00051	0.011	<0.0010	<0.020	0.000071	14	<0.0010	<0.00030	0.0075	0.47	<0.00020	<0.020	3.9	0.030	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.82	<0.00010	2.2	0.031	8.5	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.022
	17-Sep-24		0.030	<0.00060	0.00047	0.010	<0.0010	<0.020	0.000052	17	<0.0010	<0.00030	0.0075	0.39	<0.00020	<0.020	3.7	0.019	<0.00020	0.00066	<0.10	2.1	<0.00020	0.82	<0.00010	2.6	0.028	7.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.019
	2-Oct-24		0.052	<0.00060	0.00036	0.011	<0.0010	<0.020	0.000031	14	<0.0010	<0.00030	0.0065	0.76 [3]	<0.00020	<0.020	3.8	0.040 [3]	<0.00020	<0.00050	<0.10	1.7	<0.00020	1.0	<0.00010	2.2	0.029	8.1	<0.00020	<0.0010	0.0026	<0.00010	<0.0010	0.011
	17-Oct-24		0.064	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.000034	13	<0.0010	<0.00030	0.0095	0.65	<0.00020	<0.020	3.4	0.020	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.95	<0.00010	2.0	0.026	8.3	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.013

TABLE 6
TOTAL METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																															
			Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (Ar)	Total Barium (Ba)	Total Beryllium (Be)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)	Total Molybdenum (Mb)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (Tl)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
CL-3 sfc	21-Feb-24		0.0097	<0.00060	0.00062	<0.010	<0.0010	<0.020	0.000028	11	<0.0010	<0.00030	0.0040	<0.090	<0.00020	<0.020	3.4	<0.0040	<0.00020	0.00062	<0.10	1.6	<0.00020	0.66	<0.00010	2.3	0.029	4.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
	28-May-24		0.031	<0.00060	0.00056	<0.010	<0.0010	<0.020	0.000081	13	0.0012	<0.00030	0.0048	0.25	<0.00020	<0.020	3.3	0.025	<0.00020	0.00061	<0.10	1.5	<0.00020	0.87	<0.00010	2.1	0.026	7.9	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.027
	11-Jun-24		0.083	<0.00060	0.00042	0.012	<0.0010	<0.020	0.00056	27	<0.0010	0.00072	0.024	0.93	<0.00020	<0.020	5.3	0.088	0.00034	0.0013	<0.10	2.4	<0.00020	1.1	<0.00010	2.6	0.042	24	<0.00020	<0.0010	0.0020	<0.00010	<0.0010	0.18
	25-Jun-24		0.19	<0.00060	0.00041	0.010	<0.0010	<0.020	0.00067	24	<0.0010	0.00072	0.029	0.83	<0.00020	0.023	4.9	0.063	<0.00020	0.0014	<0.10	2.4	<0.00020	1.1	<0.00010	2.4	0.033	18	<0.00020	<0.0010	0.0032	<0.00010	<0.0010	0.20
	10-Jul-24		0.053	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.00034	16	<0.0010	<0.00030	0.019	0.29	<0.00020	<0.020	3.7	0.017	0.00043	0.00095	<0.10	1.7	<0.00020	0.85	<0.00010	2.0	0.026	11	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.11
	23-Jul-24		0.065	<0.00060	0.00058	<0.010	<0.0010	<0.020	0.00034	16	0.0059	<0.00030	0.020	0.33	0.00026	<0.020	3.7	0.010	0.0012	0.0035	<0.10	1.8	<0.00020	0.74	<0.00010	2.1	0.026	11	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.14
	7-Aug-24		0.048	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.00011	14	<0.0010	<0.00030	0.0091	0.38	0.00037	<0.020	3.4	0.012	<0.00020	0.00080	<0.10	1.7	<0.00020	0.70	<0.00010	2.0	0.026	8.6	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.033
	20-Aug-24		0.067	<0.00060	0.0004	<0.010	<0.0010	<0.020	0.00012	17	<0.0010	<0.00030	0.0098	0.68	<0.00020	<0.020	3.7	0.014	0.00036	0.00088	<0.10	1.8	<0.00020	0.68	<0.00010	2.3	0.028	10	<0.00020	<0.0010	0.0020	<0.00010	<0.0010	0.038
			0.079	<0.00060	0.00055	0.010	<0.0010	<0.020	0.00013	17	<0.0010	<0.00030	0.011	0.74	<0.00020	<0.020	4.1	0.017	<0.00020	0.00085	<0.10	1.9	<0.00020	0.80	<0.00010	2.2	0.032	11	<0.00020	<0.0010	0.0031	<0.00010	<0.0010	0.043
	RPD		*16%*	*NC*	*32%*	*NC*	*NC*	*NC*	*8%*	*0%*	*NC*	*NC*	*12%*	*8%*	*NC*	*NC*	*10%*	*19%*	*NC*	*3%*	*NC*	*5%*	*NC*	*16%*	*NC*	*4%*	*13%*	*10%*	*NC*	*NC*	*43%*	*NC*	*NC*	*12%*
	4-Sep-24		0.040	<0.00060	0.00048	0.010	<0.0010	<0.020	0.000060	15	<0.0010	<0.00030	0.0072	0.64	<0.00020	<0.020	3.8	0.027	<0.00020	0.00056	<0.10	1.8	<0.00020	0.70	<0.00010	2.1	0.03	8.8	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.021
	17-Sep-24		0.030	<0.00060	0.00053	<0.010	<0.0010	<0.020	0.000053	15	<0.0010	<0.00030	0.0067	0.50	<0.00020	<0.020	3.7	0.018	0.00034	<0.00050	<0.10	1.7	<0.00020	0.74	<0.00010	2.1	0.03	8.7	<0.00020	<0.0010	0.0010	<0.00010	<0.0010	0.017
		SW-130	0.030	<0.00060	0.00049	0.011	<0.0010	<0.020	0.000052	18	<0.0010	<0.00030	0.0069	0.54	0.00025	<0.020	3.7	0.018	<0.00020	0.00057	<0.10	2.3	<0.00020	0.78	<0.00010	2.7	0.03	8.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.018
	RPD		*0%*	*NC*	*8%*	*NC*	*NC*	*NC*	*2%*	*18%*	*NC*	*NC*	*3%*	*8%*	*NC*	*NC*	*0%*	*0%*	*NC*	*NC*	*NC*	*30%*	*NC*	*5%*	*NC*	*25%*	*0%*	*2%*	*NC*	*NC*	*NC*	*NC*	*NC*	*6%*
	2-Oct-24		0.054	<0.00060	0.00054	<0.010	<0.0010	<0.020	0.000043	13	<0.0010	<0.00030	0.0069	0.65	0.0044	<0.020	3.6	0.026	0.00078	0.0022	<0.10	1.6	<0.00020	0.89	<0.00010	2.0	0.027	7.7	<0.00020	<0.0010	0.0023	<0.00010	<0.0010	0.015
	17-Oct-24		0.068	<0.00060	0.00064	<0.010	<0.0010	<0.020	0.000056	14	<0.0010	<0.00030	0.010	0.52	<0.00020	<0.020	3.5	0.013	<0.00020	0.00081	<0.10	1.6	<0.00020	0.81	<0.00010	2.2	0.028	8.3	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.020
CL-3 btm	21-Feb-24		0.013	<0.00060	0.00084	0.010	<0.0010	<0.020	0.000036	12	<0.0010	<0.00030	0.0047	<0.060	<0.00020	<0.020	3.5	<0.0040	<0.00020	0.00062	<0.10	1.5	<0.00020	0.64	<0.00010	2.3	0.03	4.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.011
	28-May-24		0.048	<0.00060	0.00065	<0.010	<0.0010	<0.020	0.00012	15	<0.0010	<0.00030	0.0064	0.27	<0.00020	<0.020	3.6	0.029	<0.00020	0.00056	<0.10	1.6	<0.00020	0.86	<0.00010	2.2	0.029	8.7	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	0.037
		SW-104	0.046	<0.00060	0.00059	<0.010	<0.0010	<0.020	0.000096	15	<0.0010	<0.00030	0.0054	0.31	<0.00020	<0.020	3.8	0.029	<0.00020	0.00055	<0.10	1.8	<0.00020	0.86	<0.00010	2.2	0.029	9.1	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.032
	RPD		*4%*	*NC*	*10%*	*NC*	*NC*	*NC*	*22%*	*0%*	*NC*	*NC*	*17%*	*14%*	*NC*	*NC*	*5%*	*0%*	*NC*	*2%*	*NC*	*12%*	*NC*	*0%*	*NC*	*0%*	*0%*	*4%*	*NC*	*NC*	*48%*	*NC*	*NC*	*14%*
	11-Jun-24		0.086	<0.00060	0.00026	0.017	<0.0010	<0.020	0.00075	35	<0.0010	0.00094	0.027	1.2	<0.00020	<0.020	6.6	0.13	<0.00020	0.0013	<0.10	3.1	<0.00020	1.2	<0.00010	2.8	0.047	32	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.23
	25-Jun-24		0.12	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.00060	21	<0.0010	0.00071	0.029	0.80	<0.00020	<0.020	4.3	0.054	<0.00020	0.0016	<0.10	2.1	<0.00020	0.97	<0.00010	2.1	0.028	18	<0.00020	<0.0010	0.0034	<0.00010	<0.0010	0.18
	10-Jul-24		0.064	<0.00060	0.00051	<0.010	<0.0010	<0.020	0.00027	14	<0.0010	<0.00030	0.017	0.21	0.00021	<0.020	3.4	0.013	<0.00020	0.0011	<0.10	1.6	<0.00020	0.84	<0.00010	1.9	0.025	8.6	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.093
	23-Jul-24		0.039	<0.00060	0.00047	<0.010	<0.0010	<0.020	0.00016	14	<0.0010	<0.00030	0.011	0.20	<0.00020	<0.020	3.6	0.0078	<0.00020	0.00070	<0.10	1.7	<0.00020	0.67	<0.00010	2.0	0.025	9.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.054
		SW-117	0.039	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.00016	14	<0.0010	<0.00030	0.011	0.20	<0.00020	<0.020	3.6	0.008	<0.00020	0.00067	<0.10	1.7	<0.00020	0.68	<0.00010	2.1	0.025	8.7	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.055
	RPD		*0%*	*NC*	*2%*	*NC*	*NC*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*3%*	*NC*	*4%*	*NC*	*0%*	*NC*	*1%*	*NC*	*5%*	*0%*	*10%*	*NC*	*NC*	*NC*	*NC*	*NC*	*2%*
	7-Aug-24		0.066	<0.00060	0.00058	0.010	<0.0010	<0.020	0.00016	15	<0.0010	<0.00030	0.013	0.52	<0.00020	<0.020	3.8	0.016	<0.00020	0.0010	<0.10	1.8	<0.00020	0.77	<0.00010	2.2	0.03	9.7	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.053
	20-Aug-24		0.092	<0.00060	0.00066	<0.010	<0.0010	<0.020	0.00019	17	<0.0010	<0.00030	0.014	0.68	0.00025	<0.020	3.7	0.015	<0.00020	0.0012	<0.10	1.8	<0.00020	0.70	<0.00010	2.3	0.026	10	<0.00020	<0.0010	0.0038	<0.00010	<0.0010	0.059
	4-Sep-24		0.045	<0.00060	0.00045	0.010	<0.0010	<0.020	0.000072	15	<0.0010	<0.00030	0.0075	0.67	<0.00020	<0.020	4.0	0.028	<0.00020	<0.00050	<0.10	1.8	<0.00020	0.79	<0.00010	2.2	0.031	9.3	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.024
	17-Sep-24		0.037	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.000049	14	<0.0010	<0.00030	0.007	0.49	<0.00020	<0.020	3.7	0.017	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.80	<0.00010	2.1	0.03	8.5	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.018
	2-Oct-24		0.075	<0.00060	0.00052	<0.010	<0.0010	<0.020	0.000064	13	<0.0010	<0.00030	0.011	0.65	<0.00020	<0.020	3.6	0.025	<0.00020	0.00088	<0.10	1.6	<0.00020	0.91	<0.00010	2.0	0.027	7.7	<0.00020	<0.0010	0.0022	<0.00010	<0.0010	0.023
	17-Oct-24		0.051	<0.00060	0.00039	<0.010	<0.0010	<0.020	0.000035	13	<0.0010	<0.00030	0.0061	0.58	<0.00020	<0.020	3.4	0.016	<0.00020	0.00053	<0.10	1.7	<0.00020	0.88	<0.00010	2.0	0.026	9.2	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	0.011
CL-4 sfc	21-Feb-24		0.017	<0.00060	0.00072	0.011	<0.0010	<0.020	0.000077	12	0.0010	<0.00030	0.0051	<0.060	0.00053	<0.020	3.8	<0.0040	<0.00020	0.00074	<0.10	1.8	<0.00020	0.70	<0.00010	2.6	0.034	4.6	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.012
	28-May-24		0.039	<0.00060	0.00066	<0.010	<0.0010	<0.020	0.000067	14	<0.0010	<0.00030	0.0048	0.27	0.00026	<0.020	3.8	0.023	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.86	<0.00010	2.2	0.028	7.6	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.022
		SW-103	0.074	<0.00060	0.00057	<0.010	<0.0010	<0.020	0.000071	13	<0.0010	<0.00030	0.0052	0.26	<0.00020	<0.020	3.6	0.022	<0.00020	0.00055	<0.10	1.7	<0.00020	0.85	<0.00010	2.1	0.028	7.3	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.026
	RPD		*62%*	*NC*	*15%*	*NC*	*NC*	*NC*	*6%*	*7%*	*NC*	*NC*	*8%*	*4%*	*NC*	*NC*	*5%*	*4%*	*NC*	*NC*	*NC*	*0%*	*NC*	*1%*	*NC*	*5%*	*0%*	*4%*	*NC*	*NC*	*15%*	*NC*	*NC*	*17%*
	11-Jun-24		0.074	<0.00060	0.00063	0.01	<0.0010	<0.020	0.00031	18	<0.0010	0.00035	0.016	0.43	<0.00020	<0.020	3.9	0.038	0.00043	0.0011	<0.10	1.9	<0.00020	0.9	<0.00010	2.3	0.034	13	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.11
	25-Jun-24		0.078	<0.00060	0.00046	<0.010	<0.0010	<0.020	0.00027	16	0.0099	0.00034	0.015	0.37	<0.00020	<0.020	3.6	0.024	0.0012	0.0057	<0.10	1.8	<0.00020	0.8	<0.00010	2.0	0.025	11	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.089
	10-Jul-24		0.087	<0.00060	0.00062	0.010	<0.0010	<0.020	0.00022	13	<0.0010	<0.00030	0.017	0.19	<0.00020	<0.020	3.3	0.012	0.00024	0.0011	<0.10	1.5	<0.00020	0.81	<0.00010	2.0	0.025	6.9	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.077
	23-Jul-24		0.036	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.00013	13	0.0025	<0.00030	0.0094	0.16	<0.00020	<0.020	3.5	0.0077	0.00046	0.0059	<0.10	1.6	<0.00020	0.64	<0.00010	2.0	0.024	7.8	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.044
	7-Aug-24		0.050	<0.00060	0.00045	<0.010	<0.0010	<0.020	0.000097	14	<0.0010	<0.00030	0.0087	0.25	<0.00020	<0.020	3.5	0.011	<0.00020	0.00069	<0.10	1.7	<0.00020	0.68	<0.00010	2.0	0.026	8.2	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.031
	20-Aug-24		0.049	<0.00060	0.00051	0.010	<0.0010	<0.020	0.000082	14	<0.0010	<0.00030	0.0086	0.26	<0.00020	<0.020	3.8	0.014	<0.00020	0.00074	<0.10	1.7	<0.00020	0.69	<0.00010	2.2	0.031	8.2	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.030
	4-Sep-24		0.047	<0.00060	0.00043	0.010	<0.0010	<0.020	0.000067	14	<0.0010	<0.00030	0.0071	0.45	<0.00020	<0.020	3.8	0.030	0.00021	0.00051	<0.10	1.8	<0.00020	0.76	<0.00010	2.2	0.031	8.2	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.022
	17-Sep-24		0.030	<0.00060	0.00052	<0.010	<0.0010	<0.020	0.000048	13	<0.0010	<0.00030	0.0061	0.34	<0.00020	<0.020	3.5	0.016	0.0014	<0.00050	<0.10	1.7	<0.00020	0.72	<0.00010	2.0	0.029	7.5	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.013
	2-Oct-24		0.068	<0.00060	0.00057	<0.010	<0.0010	<0.020	0.000053	13	<0.0010	<0.00030	0.0098	0.45	0.00063	<0.020	3.4	0.019	<0.00020	0.00091	<0.10	1.5	<0.00020	0.82	<0.00010	2.0	0.026	7.1	<0.00020	<0.0010	0.0022	<0.00010	<0.0010	0.019
		SW-131	0.077	<0.00060	0.00067	<0.010	<0.0010	<0.020	0.000057	13	<0.0010	<0.00030	0.011	0.51	0.00021	<0.020	3.6	0.02	<0.00020	0.00090	<0.10	1.7	<0.00020	0.87	<0.00010	2.2	0.028	7.5	<0.00020	<0.0010	0.0026	<0.00010	<0.0010	0.023
	RPD		*12%*	*NC*	*16%*	*NC*	*NC*	*NC*	*6%*	*0%*	*NC*	*NC*	*12%*	*13%*	*NC*	*NC*	*6%*	*5%*	*NC*	*NC*	*NC*	*13%*	*NC*	*6%*	*NC*	*10%*	*7%*	*5%*	*NC*	*NC*	*17%*	*NC*	*NC*	*19%*
	17-Oct-24		0.063	<0.00060	0.00046	<0.010	<0.0010	<0.020	0.000034	13	<0.0010	<0.00030	0.0058	0.5	0.0011	<0.020	3.4	0.016	<0.00020	0.0008	<0.10	1.7	<0.00020	0.84	<0.00010	2	0.026	7.5	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.011
CL-4 btm	21-Feb-24		0.037	<0.00060	0.00054	0.011	<0.0010	<0.020	0.000063	16	<0.0010	<0.00030	0.0069	0.82	<0.00020	<0.020	3.8	0.071	<0.00020	0.00055	<0.10	1.8	<0.00020	1.5	<0.00010	2.3	0.03	11	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.024
	28-May-24		0.063	<0.00060	0.00076	0.010	<0.0010	<0.020	0.000056	13	<0.0010	<0.00030	0.0052	0.48	0.00028	<0.020	3.7	0.028	<0.00020	0.00051	<0.10	1.7	<0.00020	0.93	<0.00010	2.3	0.028	5.9	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.020
	11-Jun-24		0.079	<0.00060	0.00067	0.011	<0.0010	<0.020	0.00020	16	<0.0010	0.00030	0.012	0.51	<0.00020	<0.020	3.8	0.040	<0.00020	0.00085	<0.10	1.7	<0.00020	0.98	<0.00010	2.2	0.033	11	<0.00020	<0.0010	0.0026	<0.00010	<0.0010	0.072
	25-Jun-24		0.075	<0.00060	0.00043	0.011	<0.0010	<0.020	0.00012	14	<0.0010	<0.00030	0.0077	0.80	<0.00020	<0.020	3.7	0.047	<0.00020	0.00056	<0.10	1.7	<0.00020	1.1	<0.00010	2.2	0.028	8.8	<0.00020	<0.0010	0.0028	<0.00010	<0.0010	0.039
	10-Jul-24		0.076	<0.00060	0.00064	0.010	<0.0010	<0.020	0.00018	13	<0.0010	<0.00030	0.013	0.42	<0.00020	<0.020	3.3	0.024	<0.00020	0.00095	<0.10	1.5	<0.00020	0.95	<0.00010	2.0	0.026	8.0	<0.00020	<0.0010	0.0023	0.0001	<0.0010	0.063
	23-Jul-24		0.051	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.00014	13	<0.0010	<0.00030	0.0091	0.44	0.00044	<0.020	3.5	0.043	<0.00020	0.00060	<0.10	1.7	<0.00020	1.0	<0.00010	2.1	0.025	8.1	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.048
		SW-118	0.055	<0.00060	0.00049	0.011	<0.0010	<0.020	0.00016	14	<0.0010	<0.00030	0.010	0.46	<0.00020	<0.020	3.5	0.044	0.00020	0.00074	<0.10	1.7	<0.00020	1.0	<0.00010	2.1	0.026	8.8	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.052
	RPD		*8%*	*NC*	*15%*	*NC*	*NC*	*NC*	*13%*	*7%*	*NC*	*NC*	*9%*	*4%*	*NC*	*NC*	*0%*	*2%*	*NC*	*21%*	*NC*	*0%*	*NC*	*0%*	*NC*	*0%*	*4%*	*8%*	*NC*	*NC*	*37%*	*NC*	*NC*	*8%*
	7-Aug-24		0.056	<0.00060	0.00061	<0.010	<0.0010	<0.020	0.00013	14	<0.0010	<0.00030	0.011	0.31	<0.00020	<0.020	3.7	0.013	<0.00020	0.00089	<0.10	1.8	<0.00020	0.74	<0.00010	2.2	0.029	8.7	<0.00020	<0.0010	0.002	<0.00010	<0.0010	0.045
	20-Aug-24		0.056	<0.00060	0.00064	0.012	<0.0010	<0.020	0.00017	14	<0.0010	0.00057	0.0092	1.5	0.00035	<0.020	3.3	0.30	<0.00020	0.00074	<0.10	1.6	<0.00020	1.2	<0.00010	2.0	0.028	7.4	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.049
	4-Sep-24		0.040	<0.00060	0.00037	0.010	<0.0010	<0.020	0.000066	14	<0.0010	<0.00030	0.0076	0.45	<0.00020	<0.020	3.7	0.032	<0.00020	0.00050	<0.10	1.7	<0.00020	0.76	<0.00010	2.1	0.03	8.0	<0.00020	<0.0010	0.0013	<0.00010	<0.0010	0.020
	17-Sep-24		0.038	<0.00060	0.00052	0.011	<0.0010	<0.020	0.000047	17	<0.0010	<0.00030	0.0075	0.40	<0.00020	<0.020	3.6	0.022	<0.00020	0.00051	<0.10	2.1	<0.00020	0.80	<0.00010	2.6	0.03	7.4	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.016
	2-Oct-24		0.052	<0.00060	0.0005	<0.010	<0.0010	<0.020	0.000040	13	<0.0010	<0.00030	0.0070	0.44	0.00039	<0.020	3.4	0.019	<0.00020	0.00064	<0.10	1.6	<0.00020	0.76	<0.00010	2.1	0.029	7.0	<0.00020	<0.0010	0.0022	<0.00010	<0.0010	0.015
	17-Oct-24		0.055	<0.00060	0.00046	<0.010	<0.0010	<0.020	0.000036	13	<0.0010	<0.00030	0.0065	0.48	<0.00020	<0.020	3.3	0.017	<0.00020	0.00061	<0.10	1.5	<0.00020	0.83	<0.00010	2.0	0.028	7.0	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.014
CL-5 sfc	21-Feb-24		0.039	0.00089	0.00099	0.011	<0.0010	<0.020	0.00016	12	0.0034	<0.00030	0.0076	0.11	0.0017	<0.020	3.5	<0.0040	<0.00020	0.0011	<0.10	1.5	<0.00020	0.68	<0.00010	2.4	0.031	4.4	<0.00020	<0.0010	0.0027	<0.00010	<0.0010	0.026
	28-May-24		0.040	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.000059	12	<0.0010	<0.00030	0.0047	0.19	<0.00020	<0.020	3.2	0.018	<0.00020	<0.00050	<0.10	1.4	<0.00020	0.84	<0.00010	2.1	0.026	5.7	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.024
	11-Jun-24		0.061	<0.00060	0.0005	<0.010	<0.0010	<0.020	0.00012	12	<0.0010	<0.00030	0.0093	0.21	<0.00020	<0.020	3.3	0.016	0.00026	0.00063	<0.10	1.5	<0.00020	0.91	<0.00010	2.1	0.029	6.7	<0.00020	<0.0010	0.0027	<0.00010	<0.0010	0.050
	25-Jun-24		0.10	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.00021	15	<0.0010	<0.00030	0.012	0.29	<0.00020	<0.020	3.8	0.022	<0.00020	0.00080	<0.10	1.8	<0.00020	0.96	<0.00010	2.2	0.027	9.2	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	0.069
	10-Jul-24		0.090	<0.00060	0.00067	0.010	<0.0010	<0.020	0.00020	13	<0.0010	<0.00030	0.015	0.30	<0.00020	<0.020	3.3	0.012	<0.00020	0.0010	<0.10	1.6	<0.00020	0.79	<0.00010	2.0	0.025	6.7	<0.00020	<0.0010	0.0029	<0.00010	<0.0010	0.074
	23-Jul-24		0.046	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.00013	13	<0.0010	<0.00030	0.0093	0.15	<0.00020	<0.020	3.5	0.0078	<0.00020	0.00082	<0.10	1.7	<0.00020	0.61	<0.00010	2.1	0.025	7.3	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.042
	7-Aug-24		0.052	<0.00060	0.00050	0.010	<0.0010	<0.020	0.00010	14	<0.0010	<0.00030	0.0086	0.25	0.00025	<0.020	3.6	0.013	<0.00020	0.00073	<0.10	1.7	0.0002	0.69	<0.00010	2.2	0.029	8.0	<0.00020	<0.0010	0.002	<0.00010	<0.0010	0.033
	20-Aug-24		0.057	<0.00060	0.00068	<0.010	<0.0010	<0.020	0.000094	13	<0.0010	<0.00030	0.0099	0.20	0.00038	<0.020	3.3	0.011	<0.00020	0.00095	<0.10	1.6	<0.00020	0.54	<0.00010	2.2	0.025	6.8	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.034
	4-Sep-24		0.042	<0.00060	0.00051	0.011	<0.0010	<0.020	0.000054	14	<0.0010	<0.00030	0.0066	0.38	<0.00020	<0.020	3.8	0.026	0.00027	<0.00050	<0.10	1.7	<0.00020	0.67	<0.00010	2.2	0.031	7.7	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.018
			0.041	<0.00060	0.00059	0.011	<0.0010	<0.020	0.000054	14	<0.0010	<0.00030	0.0066	0.37	<0.00020	<0.020	3.8	0.025	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.69	<0.00010	2.2	0.03	7.6	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.018
	RPD		*2%*	*NC*	*15%*	*0%*	*NC*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*3%*	*NC*	*NC*	*0%*	*4%*	*NC*	*NC*	*NC*	*0%*	*NC*	*3%*	*NC*	*0%*	*3%*	*1%*	*NC*	*NC*	*6%*	*NC*	*NC*	*0%*
	17-Sep-24		0.038	<0.00060	0.00049	<0.010	<0.0010	<0.020	0.000037	13	<0.0010	<0.00030	0.0066	0.32	<0.00020	<0.020	3.5	0.016	<0.00020	0.00061	<0.10	1.7	<0.00020	0.71	<0.00010	2.1	0.029	7.3	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.014
	2-Oct-24		0.062	<0.00060	0.00045	0.010	<0.0010	<0.020	0.000034	13	<0.0010	<0.00030	0.0061	0.35	0.00022	<0.020	3.4	0.017	<0.00020	0.00064	<0.10	1.6	<0.00020	0.72	<0.00010	2.1	0.029	6.6	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.013
	17-Oct-24		0.059	<0.00060	0.00051	<0.010	<0.0010	0.02	0.000034	12	<0.0010	<0.00030	0.0063	0.37	<0.00020	<0.020	3.2	0.016	<0.00020	0.00062	<0.10	1.6	<0.00020	0.79	<0.00010	2.0	0.028	6.5	<0.00020	<0.0010	0.0022	<0.00010	<0.0010	0.012
CL-5 btm	21-Feb-24		0.022	<0.00060	0.00081	<0.010	<0.0010	<0.020	0.000043	12	<0.0010	<0.00030	0.0054	0.11	<0.00020	<0.020	3.4	0.0094	<0.00020	0.00071	<0.10	1.5	<0.00020	0.75	<0.00010	2.3	0.03	4.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.021
	28-May-24		0.052	<0.00060	0.00060	<0.010	<0.0010	<0.020	0.000066	12	<0.0010	<0.00030	0.0057	0.25	<0.00020	<0.020	3.6	0.020	<0.00020	0.00060	<0.10	1.7	<0.00020	0.85	<0.00010	2.2	0.027	6.1	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.027
	11-Jun-24		0.053	<0.00060	0.00040	<0.010	<0.0010	<0.020	0.000099	13	<0.0010	<0.00030	0.0071	0.26	<0.00020	<0.020	3.4	0.019	<0.00020	0.00052	<0.10	1.5	<0.00020	0.96	<0.00010	2.1	0.03	7.9	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.038
	25-Jun-24		0.091	<0.00060	0.00047	<0.010	<0.0010	<0.020	0.00015	14	<0.0010	<0.00030	0.010	0.56	<0.00020	<0.020	3.4	0.034	<0.00020	0.00083	<0.10	1.7	<0.00020	0.92	<0.00010	2.1	0.025	8.5	<0.00020	<0.0010	0.0035	<0.00010	<0.0010	0.049
	10-Jul-24		0.095	<0.00060	0.00077	<0.010	<0.0010	<0.020	0.00021	12	<0.0010	<0.00030	0.015	0.18	<0.00020	<0.020	3.2	0.011	<0.00020	0.0010	<0.10	1.5	<0.00020	0.76	<0.00010	1.9	0.024	6.4	<0.00020	<0.0010	0.0029	<0.00010	<0.0010	0.072
		SW-113	0.070	<0.00060	0.00047	<0.010	<0.0010	<0.020	0.00013	13	<0.0010	<0.00030	0.0082	0.27	<0.00020	<0.020	3.3	0.016	<0.00020	0.00053	<0.10	1.6	<0.00020	0.95	<0.00010	2.0	0.026	7.6	<0.00020	<0.0010	0.0024	<0.00010	<0.0010	0.040
	RPD		*30%*	*NC*	*48%*	*NC*	*NC*	*NC*	*47%*	*8%*	*NC*	*NC*	*59%*	*40%*	*NC*	*NC*	*3%*	*37%*	*NC*	*61%*	*NC*	*6%*	*NC*	*22%*	*NC*	*5%*	*8%*	*17%*	*NC*	*NC*	*19%*	*NC*	*NC*	*57%*
	23-Jul-24		0.045	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.00013	13	<0.0010	<0.00030	0.0099	0.16	<0.00020	<0.020	3.5	0.0076	<0.00020	0.00074	<0.10	1.6	<0.00020	0.66	<0.00010	2.1	0.025	7.7	<0.00020	<0.0010	0.0013	<0.00010	<0.0010	0.044
	7-Aug-24		0.055	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000088	13	<0.0010	<0.00030	0.0083	0.25	<0.00020	<0.020	3.6	0.014	<0.00020	0.00066	<0.10	1.6	<0.00020	0.76	<0.00010	2.1	0.028	8.3	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.031
	20-Aug-24		0.061	<0.00060	0.00059	<0.010	<0.0010	<0.020	0.00014	13	<0.0010	<0.00030	0.0099	0.43	0.00045	<0.020	3.3	0.057	<0.00020	0.0010	<0.10	1.6	<0.00020	0.87	<0.00010	2.0	0.027	7.5	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.046
	4-Sep-24		0.038	<0.00060	0.00056	0.011	<0.0010	<0.020	0.000051	14	<0.0010	<0.00030	0.0077	0.37	<0.00020	<0.020	3.8	0.026	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.71	<0.00010	2.2	0.03	7.6	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.018
	17-Sep-24		0.036	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.000043	13	<0.0010	<0.00030	0.0063	0.30	<0.00020	<0.020	3.4	0.016	<0.00020	<0.00050	<0.10	1.6	<0.00020	0.74	<0.00010	2.0	0.029	7.1	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.013
	2-Oct-24		0.067	<0.00060	0.00056	<0.010	<0.0010	<0.020	0.000041	12	<0.0010	<0.00030	0.0078	0.38	<0.00020	<0.020	3.4	0.017	<0.00020	0.00067	<0.10	1.5	<0.00020	0.90	<0.00010	2.0	0.026	6.8	<0.00020	<0.0010	0.0032	<0.00010	<0.0010	0.015
	17-Oct-24		0.067	<0.00060	0.00045	<0.010	<0.0010	<0.020	0.000035	12	<0.0010	<0.00030	0.0057	0.39	0.00047	<0.020	3.3	0.015	<0.00020	0.00064	<0.10	1.7	<0.00020	0.81	<0.00010	2.0	0.026	6.9	<0.00020	<0.0010	0.0024	<0.00010	<0.0010	0.011

TABLE 6
TOTAL METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																															
			Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (Ar)	Total Barium (Ba)	Total Beryllium (Be)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)	Total Molybdenum (Mb)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (Tl)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
CL-6 sfc	21-Feb-24		0.032	<0.00060	0.0012	0.012	<0.0010	<0.020	0.000051	13	0.0012	<0.00030	0.0059	<0.060	0.00083	<0.020	3.8	<0.0040	<0.00020	0.00098	<0.10	1.9	<0.00020	0.67	<0.00010	2.5	0.035	4.7	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.016
	28-May-24		0.053	<0.00060	0.00064	<0.010	<0.0010	<0.020	0.000030	11	<0.0010	<0.00030	0.0038	0.18	0.00022	<0.020	3.4	0.013	<0.00020	0.00068	<0.10	1.7	<0.00020	0.78	<0.00010	2.1	0.026	4.7	<0.00020	<0.0010	0.0016	<0.00010	<0.0010	0.015
	11-Jun-24		0.052	<0.00060	0.00053	<0.010	<0.0010	<0.020	0.000055	11	<0.0010	<0.00030	0.0047	0.14	<0.00020	<0.020	3.2	0.011	<0.00020	<0.00050	<0.10	1.4	<0.00020	0.71	<0.00010	2.0	0.029	5.1	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.018
	25-Jun-24		0.079	<0.00060	0.00038	<0.010	<0.0010	<0.020	0.00012	12	<0.0010	<0.00030	0.0086	0.21	<0.00020	<0.020	3.2	0.014	<0.00020	0.00076	<0.10	1.6	<0.00020	0.78	<0.00010	1.9	0.024	7.0	<0.00020	<0.0010	0.0023	<0.00010	<0.0010	0.043
	10-Jul-24		0.090	<0.00060	0.00076	<0.010	<0.0010	<0.020	0.00011	11	<0.0010	<0.00030	0.0096	0.16	<0.00020	<0.020	3.0	0.012	0.0011	0.00090	<0.10	1.4	<0.00020	0.65	<0.00010	1.8	0.024	4.8	<0.00020	<0.0010	0.0027	<0.00010	<0.0010	0.040
	23-Jul-24		0.038	<0.00060	0.00055	<0.010	<0.0010	<0.020	0.000089	12	<0.0010	<0.00030	0.0074	0.11	<0.00020	<0.020	3.3	0.0077	<0.00020	0.00056	<0.10	1.6	<0.00020	0.51	<0.00010	2.0	0.024	6.4	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.031
	7-Aug-24		0.048	<0.00060	0.00042	<0.010	<0.0010	<0.020	0.000061	12	<0.0010	<0.00030	0.0064	0.16	0.00020	<0.020	3.2	0.014	0.0015	0.00064	<0.10	1.5	<0.00020	0.53	<0.00010	2.0	0.025	6.2	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.019
			0.050	<0.00060	0.00051	0.011	<0.0010	0.021	0.000068	13	<0.0010	<0.00030	0.0070	0.20	0.00091	<0.020	3.5	0.017	0.00030	0.00087	<0.10	1.7	<0.00020	0.65	<0.00010	2.2	0.029	6.7	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.024
	RPD		*4%*	*NC*	*19%*	*NC*	*NC*	*NC*	*11%*	*8%*	*NC*	*NC*	*9%*	*22%*	*128%*	*NC*	*9%*	*19%*	*133%*	*30%*	*NC*	*13%*	*NC*	*20%*	*NC*	*10%*	*15%*	*8%*	*NC*	*NC*	*0%*	*NC*	*NC*	*23%*
	20-Aug-24		0.040	<0.00060	0.0006	<0.010	<0.0010	<0.020	0.000053	11	<0.0010	<0.00030	0.0057	0.13	<0.00020	<0.020	3.1	0.015	<0.00020	<0.00050	<0.10	1.5	<0.00020	<0.50	<0.00010	2.0	0.026	5.4	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.018
	4-Sep-24		0.046	<0.00060	0.00048	0.010	<0.0010	<0.020	0.000046	13	<0.0010	<0.00030	0.0054	0.24	<0.00020	<0.020	3.6	0.018	<0.00020	<0.00050	<0.10	1.6	<0.00020	0.59	<0.00010	2.1	0.03	6.6	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.015
	17-Sep-24		0.036	<0.00060	0.00062	0.010	<0.0010	<0.020	0.000027	14	<0.0010	<0.00030	0.0052	0.19	<0.00020	<0.020	3.4	0.013	<0.00020	<0.00050	<0.10	2.0	<0.00020	0.57	<0.00010	2.5	0.029	5.9	<0.00020	<0.0010	0.0013	<0.00010	<0.0010	0.011
	2-Oct-24		0.076	<0.00060	0.0006	<0.010	<0.0010	<0.020	0.000028	12	<0.0010	<0.00030	0.0062	0.23	<0.00020	<0.020	3.2	0.021	<0.00020	0.00069	<0.10	1.5	<0.00020	0.63	<0.00010	2.1	0.028	5.1	<0.00020	<0.0010	0.0034	<0.00010	<0.0010	0.013
	17-Oct-24		0.061	<0.00060	0.00077	<0.010	<0.0010	<0.020	0.000026	12	<0.0010	<0.00030	0.010	0.19	<0.00020	<0.020	3.2	0.011	<0.00020	0.0019	<0.10	1.5	<0.00020	0.6	<0.00010	2.2	0.027	5.4	<0.00020	<0.0010	0.0023	<0.00010	<0.0010	0.011
CL-6 btm	21-Feb-24		0.028	<0.00060	0.00069	0.010	<0.0010	<0.020	0.000033	12	<0.0010	<0.00030	0.0044	<0.060	<0.00020	<0.020	3.6	0.0061	<0.00020	0.00090	<0.10	1.6	<0.00020	0.73	<0.00010	2.3	0.032	4.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.013
	28-May-24		0.057	<0.00060	0.00071	<0.010	<0.0010	<0.020	0.000056	11	<0.0010	<0.00030	0.0048	0.18	0.00065	<0.020	3.4	0.014	<0.00020	0.00069	<0.10	1.6	<0.00020	0.78	<0.00010	2.1	0.026	4.8	<0.00020	<0.0010	0.0023	<0.00010	<0.0010	0.018
	11-Jun-24		0.063	<0.00060	0.0005	<0.010	<0.0010	<0.020	0.000057	11	<0.0010	<0.00030	0.0058	0.16	<0.00020	<0.020	3.2	0.014	0.00058	0.00065	<0.10	1.3	<0.00020	0.90	<0.00010	2.1	0.028	5.2	<0.00020	<0.0010	0.0024	<0.00010	<0.0010	0.023
	25-Jun-24		0.082	<0.00060	0.0005	0.010	<0.0010	<0.020	0.00014	13	<0.0010	<0.00030	0.0088	0.24	<0.00020	<0.020	3.6	0.017	<0.00020	0.00065	<0.10	1.7	<0.00020	0.96	<0.00010	2.2	0.027	7.2	<0.00020	<0.0010	0.0020	<0.00010	<0.0010	0.044
		SW-110	0.085	<0.00060	0.00046	0.010	<0.0010	<0.020	0.00013	13	<0.0010	<0.00030	0.0086	0.23	<0.00020	<0.020	3.6	0.017	<0.00020	0.00064	<0.10	1.7	<0.00020	0.94	<0.00010	2.1	0.027	7.1	<0.00020	<0.0010	0.0024	<0.00010	<0.0010	0.044
	RPD		*4%*	*NC*	*8%*	*0%*	*NC*	*NC*	*7%*	*0%*	*NC*	*NC*	*2%*	*4%*	*NC*	*NC*	*0%*	*0%*	*NC*	*2%*	*NC*	*0%*	*NC*	*2%*	*NC*	*5%*	*0%*	*1%*	*NC*	*NC*	*18%*	*NC*	*NC*	*0%*
	10-Jul-24		0.093	<0.00060	0.00086	0.01	<0.0010	<0.020	0.00013	11	<0.0010	<0.00030	0.011	0.17	0.00022	<0.020	3.1	0.013	0.00034	0.0012	<0.10	1.4	<0.00020	0.73	<0.00010	1.9	0.024	5.0	<0.00020	<0.0010	0.0032	<0.00010	0.0011	0.046
	23-Jul-24		0.049	<0.00060	0.00061	<0.010	<0.0010	<0.020	0.00012	12	<0.0010	<0.00030	0.0087	0.12	0.00050	<0.020	3.4	0.0076	<0.00020	0.00067	<0.10	1.6	<0.00020	0.55	<0.00010	2.1	0.024	6.3	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	0.035
	7-Aug-24		0.056	<0.00060	0.00053	<0.010	<0.0010	<0.020	0.000081	11	<0.0010	<0.00030	0.0079	0.21	<0.00020	<0.020	3.5	0.017	<0.00020	0.00077	<0.10	1.5	<0.00020	0.63	<0.00010	2.0	0.028	6.8	<0.00020	<0.0010	0.0026	<0.00010	<0.0010	0.028
	20-Aug-24		0.079	<0.00060	0.00071	0.011	<0.0010	<0.020	0.00010	13	<0.0010	<0.00030	0.0085	0.41	0.00026	<0.020	3.7	0.065	<0.00020	0.00087	<0.10	1.7	<0.00020	0.97	<0.00010	2.2	0.031	7.0	<0.00020	<0.0010	0.0025	<0.00010	<0.0010	0.036
	4-Sep-24		0.043	<0.00060	0.00054	0.010	<0.0010	<0.020	0.000044	13	<0.0010	<0.00030	0.0058	0.25	<0.00020	<0.020	3.6	0.018	<0.00020	<0.00050	<0.10	1.6	<0.00020	0.62	<0.00010	2.1	0.03	6.5	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.013
	17-Sep-24		0.037	<0.00060	0.00055	0.011	<0.0010	<0.020	0.000035	14	<0.0010	<0.00030	0.0056	0.18	<0.00020	<0.020	3.5	0.013	<0.00020	0.00057	<0.10	1.9	<0.00020	0.61	<0.00010	2.4	0.029	5.9	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.012
	2-Oct-24		0.074	<0.00060	0.00054	<0.010	<0.0010	<0.020	0.000027	12	<0.0010	<0.00030	0.0072	0.24	0.00046	<0.020	3.3	0.021	<0.00020	0.0013	<0.10	1.5	<0.00020	0.68	<0.00010	2.1	0.028	5.2	<0.00020	<0.0010	0.0032	<0.00010	<0.0010	0.011
	17-Oct-24		0.062	<0.00060	0.00058	<0.010	<0.0010	<0.020	0.000031	11	<0.0010	<0.00030	0.0059	0.22	<0.00020	<0.020	3.1	0.015	<0.00020	0.00051	<0.10	1.5	<0.00020	0.66	<0.00010	2.0	0.027	5.1	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.012
CL-7 sfc	21-Feb-24		0.022	<0.00060	0.00084	0.011	<0.0010	<0.020	0.000073	12	0.0014	<0.00030	0.0068	0.066	0.0011	<0.020	3.6	<0.0040	<0.00020	0.0010	<0.10	1.7	<0.00020	0.66	<0.00010	2.5	0.032	4.5	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.018
	28-May-24		0.037	<0.00060	0.00049	<0.010	<0.0010	<0.020	0.000089	15	<0.0010	<0.00030	0.0057	0.26	<0.00020	<0.020	3.7	0.027	<0.00020	0.00053	<0.10	1.7	<0.00020	0.90	<0.00010	2.3	0.029	8.5	<0.00020	<0.0010	0.0013	<0.00010	<0.0010	0.030
	11-Jun-24		0.090	<0.00060	0.00062	0.01	<0.0010	<0.020	0.00043	20	<0.0010	0.00049	0.020	0.55	<0.00020	<0.020	4.2	0.047	<0.00020	0.0012	<0.10	2.0	<0.00020	0.99	<0.00010	2.3	0.035	15	<0.00020	<0.0010	0.0022	<0.00010	<0.0010	0.14
	25-Jun-24		0.063	<0.00060	0.00035	<0.010	<0.0010	<0.020	0.00024	17	<0.0010	<0.00030	0.014	0.40	<0.00020	<0.020	3.9	0.026	<0.00020	0.00081	<0.10	1.8	<0.00020	0.95	<0.00010	2.1	0.029	12	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.08
		SW-111	0.083	<0.00060	0.00039	<0.010	<0.0010	<0.020	0.00027	16	<0.0010	<0.00030	0.015	0.37	<0.00020	<0.020	3.5	0.024	<0.00020	0.0014	<0.10	1.8	<0.00020	0.82	<0.00010	2.0	0.025	11	<0.00020	<0.0010	0.0024	<0.00010	<0.0010	0.10
	RPD		*27%*	*NC*	*11%*	*NC*	*NC*	*NC*	*12%*	*6%*	*NC*	*NC*	*7%*	*8%*	*NC*	*NC*	*11%*	*8%*	*NC*	*53%*	*NC*	*0%*	*NC*	*15%*	*NC*	*5%*	*15%*	*9%*	*NC*	*NC*	*53%*	*NC*	*NC*	*22%*
	10-Jul-24		0.061	<0.00060	0.00049	<0.010	<0.0010	<0.020	0.00037	16	<0.0010	<0.00030	0.019	0.30	0.00026	<0.020	3.7	0.019	<0.00020	0.00098	<0.10	1.8	<0.00020	0.93	<0.00010	2.0	0.029	11	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.11
	23-Jul-24		0.040	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.00022	16	<0.0010	<0.00030	0.012	0.29	<0.00020	<0.020	3.8	0.0094	<0.00020	0.00072	<0.10	1.8	<0.00020	0.75	<0.00010	2.1	0.026	11	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.068
	7-Aug-24		0.062	<0.00060	0.0007	0.010	<0.0010	<0.020	0.00016	15	<0.0010	<0.00030	0.012	0.50	<0.00020	<0.020	3.9	0.016	<0.00020	0.0016	<0.10	1.8	<0.00020	0.78	<0.00010	2.2	0.031	9.6	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.049
	20-Aug-24		0.078	<0.00060	0.00066	<0.010	<0.0010	<0.020	0.00014	15	<0.0010	<0.00030	0.013	0.46	<0.00020	<0.020	3.4	0.013	<0.00020	0.0012	<0.10	1.7	<0.00020	0.62	<0.00010	2.2	0.025	8.2	<0.00020	<0.0010	0.0029	<0.00010	<0.0010	0.047
	4-Sep-24		0.043	<0.00060	0.00041	0.010	<0.0010	<0.020	0.000065	16	<0.0010	<0.00030	0.0073	0.62	<0.00020	<0.020	3.8	0.028	<0.00020	0.00054	<0.10	1.9	<0.00020	0.73	<0.00010	2.3	0.031	8.7	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.023
	17-Sep-24		0.029	<0.00060	0.00054	<0.010	<0.0010	<0.020	0.000050	14	<0.0010	<0.00030	0.0064	0.38	<0.00020	<0.020	3.6	0.017	0.00034	<0.00050	<0.10	1.7	<0.00020	0.72	<0.00010	2.1	0.029	7.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
	2-Oct-24		0.055	<0.00060	0.00047	0.010	<0.0010	<0.020	0.000046	14	<0.0010	<0.00030	0.0083	0.64	0.00045	<0.020	3.6	0.026	<0.00020	0.00077	<0.10	1.7	<0.00020	0.85	<0.00010	2.2	0.03	7.6	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.018
	17-Oct-24		0.051	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.000039	13	<0.0010	<0.00030	0.0066	0.61	<0.00020	<0.020	3.5	0.017	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.87	<0.00010	2.0	0.026	8.2	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.011
CL-7 btm	21-Feb-24		0.015	<0.00060	0.0008	0.010	<0.0010	<0.020	0.000040	12	<0.0010	<0.00030	0.0048	<0.090	0.00027	<0.020	3.5	<0.0040	<0.00020	0.00055	<0.10	1.7	<0.00020	0.70	<0.00010	2.3	0.03	4.9	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.013
	28-May-24		0.044	<0.00060	0.00054	0.010	<0.0010	<0.020	0.000092	16	<0.0010	<0.00030	0.0054	0.31	<0.00020	<0.020	3.9	0.031	<0.00020	0.00057	<0.10	1.8	<0.00020	1.0	<0.00010	2.4	0.032	9.1	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.029
	11-Jun-24		0.067	<0.00060	0.00049	0.011	<0.0010	<0.020	0.00034	21	<0.0010	0.0004	0.016	0.60	<0.00020	<0.020	4.5	0.052	<0.00020	0.00095	<0.10	2.1	<0.00020	1.0	<0.00010	2.5	0.037	16	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	0.11
	25-Jun-24		0.086	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.00031	17	<0.0010	<0.00030	0.017	0.50	<0.00020	<0.020	3.8	0.032	<0.00020	0.00095	<0.10	1.8	<0.00020	0.88	<0.00010	2.0	0.026	13	<0.00020	<0.0010	0.0035	<0.00010	<0.0010	0.099
	10-Jul-24		0.083	<0.00060	0.00071	0.010	<0.0010	<0.020	0.00037	14	<0.0010	<0.00030	0.022	0.25	<0.00020	<0.020	3.5	0.015	<0.00020	0.0013	<0.10	1.7	<0.00020	0.82	<0.00010	1.9	0.025	9.0	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.12
	23-Jul-24		0.040	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.00028	16	<0.0010	<0.00030	0.012	0.29	<0.00020	<0.020	3.8	0.0094	<0.00020	0.00072	<0.10	1.8	<0.00020	0.75	<0.00010	2.1	0.026	11	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.068
	7-Aug-24		0.048	<0.00060	0.00048	0.010	<0.0010	<0.020	0.00013	15	<0.0010	<0.00030	0.011	0.49	<0.00020	<0.020	3.8	0.016	<0.00020	0.00079	<0.10	1.9	<0.00020	0.80	<0.00010	2.3	0.03	9.6	<0.00020	<0.0010	0.0013	0.00019	<0.0010	0.040
		SW-120	0.051	<0.00060	0.00044	<0.010	<0.0010	<0.020	0.00010	14	<0.0010	<0.00030	0.0093	0.39	<0.00020	<0.020	3.5	0.013	<0.00020	0.00064	<0.10	1.7	<0.00020	0.70	<0.00010	2.0	0.026	8.7	<0.00020	<0.0010	0.0018	<0.00010	<0.0010	0.033
	RPD		*6%*	*NC*	*9%*	*NC*	*NC*	*NC*	*26%*	*7%*	*NC*	*NC*	*17%*	*23%*	*NC*	*NC*	*8%*	*21%*	*NC*	*21%*	*NC*	*11%*	*NC*	*13%*	*NC*	*14%*	*14%*	*10%*	*NC*	*NC*	*32%*	*NC*	*NC*	*19%*
	20-Aug-24		0.091	<0.00060	0.00075	<0.010	<0.0010	<0.020	0.00014	15	<0.0010	<0.00030	0.013	0.44	0.00030	<0.020	3.6	0.013	<0.00020	0.00093	<0.10	1.7	<0.00020	0.61	<0.00010	2.3	0.026	8.3	<0.00020	<0.0010	0.0026	<0.00010	<0.0010	0.050
	4-Sep-24		0.046	<0.00060	0.00045	0.010	<0.0010	<0.020	0.000071	15	<0.0010	<0.00030	0.0076	0.64	0.00022	<0.020	3.9	0.028	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.77	<0.00010	2.2	0.031	8.8	<0.00020	<0.0010	0.0012	<0.00010	<0.0010	0.023
	17-Sep-24		0.030	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.000043	14	<0.0010	<0.00030	0.0074	0.41	<0.00020	<0.020	3.6	0.017	0.0043	<0.00050	<0.10	1.7	<0.00020	0.74	<0.00010	2.0	0.029	8.0	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.016
	2-Oct-24		0.054	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.000041	14	<0.0010	<0.00030	0.0085	0.63	0.00035	<0.020	3.5	0.026	<0.00020	0.00074	<0.10	1.7	<0.00020	0.81	<0.00010	2.1	0.03	7.5	<0.00020	<0.0010	0.0020	<0.00010	<0.0010	0.016
	17-Oct-24		0.050	<0.00060	0.00031	<0.010	<0.0010	<0.020	0.000035	13	<0.0010	<0.00030	0.0064	0.62	<0.00020	<0.020	3.5	0.017	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.92	<0.00010	2.0	0.027	8.2	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.011
CL-8 sfc	21-Feb-24		0.013	<0.00060	0.00079	0.010	<0.0010	<0.020	0.000047	12	<0.0010	<0.00030	0.0052	<0.060	0.00032	<0.020	3.6	<0.0040	<0.00020	0.00078	<0.10	1.6	<0.00020	0.63	<0.00010	2.5	0.031	4.5	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.013
	28-May-24		0.045	<0.00060	0.00054	<0.010	<0.0010	<0.020	0.00011	15	<0.0010	<0.00030	0.0053	0.28	<0.00020	<0.020	3.8	0.029	<0.00020	0.00063	<0.10	1.8	<0.00020	0.84	<0.00010	2.2	0.028	9.3	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.032
	11-Jun-24		0.058	<0.00060	0.00045	0.010	<0.0010	<0.020	0.00027	19	<0.0010	0.00032	0.013	0.52	<0.00020	<0.020	4.1	0.046	<0.00020	0.00075	<0.10	1.9	<0.00020	0.94	<0.00010	2.2	0.034	15	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.092
		SW-106	0.079	<0.00060	0.00066	0.010	<0.0010	<0.020	0.00039	19	<0.0010	0.00044	0.019	0.54	<0.00020	<0.020	4.2	0.048	<0.00020	0.0012	<0.10	1.9	<0.00020	0.98	<0.00010	2.3	0.035	15	<0.00020	<0.0010	0.0023	<0.00010	<0.0010	0.13
	RPD		*31%*	*NC*	*38%*	*0%*	*NC*	*NC*	*36%*	*0%*	*NC*	*32%*	*38%*	*4%*	*NC*	*NC*	*2%*	*4%*	*NC*	*46%*	*NC*	*0%*	*NC*	*4%*	*NC*	*4%*	*3%*	*0%*	*NC*	*NC*	*19%*	*NC*	*NC*	*34%*
	25-Jun-24		0.072	<0.00060	0.0005	<0.010	<0.0010	<0.020	0.00030	15	<0.0010	<0.00030	0.016	0.35	<0.00020	<0.020	3.4	0.025	<0.00020	0.00099	<0.10	1.6	<0.00020	0.85	<0.00010	1.9	0.025	11	<0.00020	<0.0010	0.0021	<0.00010	<0.0010	0.098
	10-Jul-24		0.061	<0.00060	0.00046	0.15	<0.0010	<0.020	0.00026	14	<0.0010	<0.00030	0.017	0.22	0.00034	<0.020	3.5	0.014	<0.00020	0.0018	<0.10	1.7	<0.00020	0.82	<0.00010	2.2	0.027	8.7	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.094
	23-Jul-24		0.036	<0.00060	0.00048	<0.010	<0.0010	<0.020	0.00022	16	0.031	0.00072	0.014	0.39	<0.00020	<0.020	3.8	0.012	0.0040	0.026	<0.10	1.8	<0.00020	0.71	<0.00010	2.0	0.025	11	<0.00020	<0.0010	0.0011	<0.00010	<0.0010	0.074
	7-Aug-24		0.069	<0.00060	0.00071	0.010	<0.0010	<0.020	0.00017	15	<0.0010	<0.00030	0.013	0.44	0.00087	<0.020	3.8	0.015	<0.00020	0.011	<0.10	1.8	<0.00020	0.76	<0.00010	2.3	0.03	9.3	<0.00020	<0.0010	0.0028	<0.00010	<0.0010	0.055
	20-Aug-24		0.060	<0.00060	0.00076	<0.010	<0.0010	<0.020	0.00012	14	<0.0010	<0.00030	0.012	0.25	0.00066	<0.020	3.4	0.011	0.00022	0.00091	<0.10	1.6	<0.00020	0.58	<0.00010	2.2	0.025	7.3	<0.00020	<0.0010	0.0019	<0.00010	<0.0010	0.042
	4-Sep-24		0.042	<0.00060	0.00043	0.010	<0.0010	<0.020	0.000065	14	<0.0010	<0.00030	0.0068	0.51	<0.00020	<0.020	3.8	0.03	<0.00020	<0.00050	<0.10	1.7	<0.00020	0.72	<0.00010	2.2	0.03	8.2	<0.00020	<0.0010	0.0010	<0.00010	<0.0010	0.021
	17-Sep-24		0.031	<0.00060	0.0005	<0.010	<0.0010	<0.020	0.000052	14	<0.0010	<0.00030	0.0063	0.40	<0.00020	<0.020	3.6	0.017	<0.00020	0.00068	<0.10	1.7	<0.00020	0.73	<0.00010	2.1	0.029	8.0	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.015
	2-Oct-24		0.061	<0.00060	0.00062	0.011	<0.0010	<0.020	0.000050	13	<0.0010	<0.00030	0.010	0.57	0.00021	<0.020	3.4	0.023	0.00031	0.0007	<0.10	1.6	<0.00020	0.81	<0.00010	2.1	0.029	7.3	<0.00020	<0.0010	0.0029	<0.00010	<0.0010	0.02
	17-Oct-24		0.063	<0.00060	0.00068	<0.010	<0.0010	<0.020	0.000044	14	<0.0010	<0.00030	0.011	0.55	0.00023	<0.020	3.6	0.015	0.0008	0.00072	<0.10	1.7	<0.00020	0.86	<0.00010	2.3	0.029	8.3	<0.00020	<0.0010	0.0017	<0.00010	<0.0010	0.018
		SW-134	0.064	<0.00060	0.00045	<0.010	<0.0010	<0.020	0.000034	13	<0.0010	<0.00030	0.0067	0.61	0.00032	<0.020	3.4	0.017	<0.00020	0.00057	<0.10	1.7	<0.00020	0.88	<0.00010	2.0	0.026	8.2	<0.00020	<0.0010	0.0023	<0.00010	<0.0010	0.013
	RPD		*2%*	*NC*	*41%*	*NC*	*NC*	*NC*	*26%*	*7%*	*NC*	*NC*	*49%*	*10%*	*33%*	*NC*	*6%*	*13%*	*NC*	*23%*	*NC*	*0%*	*NC*	*2%*	*NC*	*14%*	*11%*	*1%*	*NC*	*NC*	*30%*	*NC*	*NC*	*32%*
CL-8 btm	21-Feb-24		0.0092	<0.00060	0.0006	0.011	<0.0010	<0.020	0.000029	11	<0.0010	<0.00030	0.0031	<0.060	<0.00020	<0.020	3.5	<0.0040	<0.00020	<0.00050	<0.10	1.5	<0.00020	0.71	<0.00010	2.3	0.032	4.3	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0073
	28-May-24		0.040	<0.00060	0.00053	<0.010	<0.0010	<0.020	0.00011	16	<0.0010	<0.00030	0.0057	0.25	0.00030	<0.020	3.7	0.028	<0.00020	0.00068	<0.10	1.6	<0.00020	0.76	<0.00010	2.3	0.029	8.4	<0.00020	<0.0010	0.001	<0.00010	<0.0010	0.036
	11-Jun-24		0.085	<0.00060	0.00042	0.012	<0.0010	<0.020	0.00058	28	<0.0010	0.00072	0.027	0.91	0.0016	<0.020	5.3	0.084	0.00021	0.0017	<0.10	2.5	<0.00020	1.1	<0.00010	2.6	0.042	24	<0.00020	<0.0010	0.0024	<0.00010	<0.0010	0.19
	25-Jun-24		0.11	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.00051	20	<0.0010	0.00057	0.024	0.84	<0.00020	<0.020	4.1	0.051	<0.00020	0.0012	<0.10	2	<0.00020	0.92	<0.00010	2.0	0.027	17	<0.00020	<0.0010	0.003	<0.00010	<0.0010	0.16
	10-Jul-24		0.059	<0.00060	0.00041	<0.010	<0.0010	<0.020	0.00022	14	<0.0010	<0.00030	0.013	0.24	<0.00020	<0.020	3.5	0.016	<0.00020	0.00084	<0.10	1.7	<0.00020	0.92	<0.00010	2.0	0.028	9.1	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.071
	23-Jul-24		0.039	<0.00060	0.00051	<0.010	<0.0010	<0.020	0.00019	15	<0.0010	<0.00030	0.012	0.22	<0.00020	<0.020	3.6	0.0082	<0.00020	0.00073	<0.10	1.7	<0.00020	0.71	<0.00010	2.0	0.025	9.2	<0.00020	<0.0010	0.0010	<0.00010	<0.0010	0.061
	7-Aug-24		0.048	<0.00060	0.00051	0.01	<0.0010	<0.020	0.00011	15	<0.0010	<0.00030	0.0094	0.42	<0.00020	<0.020	3.8	0.014	<0.00020	0.0018	<0.10	1.9	<0.00020	0.77	<0.00010	2.2	0.03	9.3	<0.00020	<0.0010	0.0014	<0.00010	<0.0010	0.037
	20-Aug-24		0.064	<0.00060	0.00075	<0.010	<0.0010	<0.020	0.00014	14	<0.0010	<0.00030	0.012	0.33	<0.00020	<0.020	3.4	0.013	<0.00020	0.00085	<0.10	1.6	<0.00020	0.61	<0.00010	2.2	0.025	7.9	<0.00020	<0.0010	0.0022	<0.00010	<0.0010	0.045
			0.067	<0.00060	0.00061	0.010	<0.0010	<0.020	0.00013	15	<0.0010	<0.00030	0.012	0.41	0.00021	<0.020	3.8	0.023	<0.00020	0.00088	<0.10	1.8	<0.00020	0.79	<0.00010	2.2	0.03	8.7	<0.00020	<0.0010	0.002	<0.00010	<0.0010	0.045
	RPD		*5%*	*NC*	*21%*	*NC*	*NC*	*NC*	*7%*	*7%*	*NC*	*NC*	*0%*	*22%*	*NC*	*NC*	*11%*	*56%*	*NC*	*3%*	*NC*	*12%*	*NC*	*26%*	*NC*	*0%*	*18%*	*10%*	*NC*	*NC*	*10%*	*NC*	*NC*	*0%*
	4-Sep-24		0.045	<0.00060	0.00049	0.011	<0.0010	<0.020	0.000065	15	<0.0010	<0.00030	0.0075	0.58	<0.00020	<0.020	3.9	0.030	0.00067	0.00062	<0.10	1.8	<0.00020	0.93	<0.00010	2.2	0.031	8.4	<0.00020	<0.0010	0.0013	<0.00010	<0.0010	0.022
	17-Sep-24		0.030	<0.00060	0.00043	<0.010	<0.0010	<0.020	0.000045	14	<0.0010	<0.00030	0.0066	0.41	<0.00020	<0.020	3.6	0.017	<0.00020	0.00093	<0.10	1.7	<0.00020	0.74	<0.00010	2.1	0.029	8.0	<0.00020	<0.0010	0.0010	<0.00010	<0.0010	0.014
	2-Oct-24		0.060	<0.00060	0.00047	0.010	<0.0010	<0.020	0.000047	14	<0.0010	<0.00030	0.0074	0.60	<0.00020	<0.020	3.6	0.024	<0.00020	0.00059	<0.10	1.7	<0.00020	0.81	<0.00010	2.2	0.03	8.0	<0.00020	<0.0010	0.0025	<0.00010	<0.0010	0.018
	17-Oct-24		0.055	<0.00060	0.00056	<0.010	<0.0010	<0.020	0.000041	13	<0.0010	<0.00030	0.0083	0.62	<0.00020	<0.020	3.4	0.018	<0.00020	0.00092	<0.10	1.6	<0.00020	0.90	<0.00010	2.1	0.029	7.8	<0.00020	<0.0010	0.0015	<0.00010	<0.0010	0.016
Laboratory Detection Limits			*0.0030*	*0.00060*	*0.00020*	*0.010*	*0.0010*	*0.020*	*0.000020*	*0.30*	*0.0010*	*0.00030*	*0.0010*	*0.060*	*0.00020*	*0.020*	*0.20*	*0.0040*	*0.00020*	*0.00050*	*0.10*	*0.30*	*0.00020*	*0.10-0.50*	*0.00010*	*0.50*	*0.020*	*0.20*	*0.00020*	*0.0010*	*0.0010*	*0.00010*	*0.0010*	*0.0030*

TABLE 6
TOTAL METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																														
			Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (Ar)	Total Barium (Ba)	Total Beryllium (Be)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)	Total Molybdenum (Mb)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (Tl)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
Manitoba Water Quality Standards, Objectives, and Guidelines [2]																																	
Protection of Aquatic Life and Wildlife																																	
Tier II Objective - Chronic			-	-	-	-	-	-	*0.00018* [2a]	-	*0.056*	-	*0.00598* [2a]	-	*0.00164* [2a]	-	-	-	-	*0.0336* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	*0.0771* [2a]
Tier II Objective - Acute			-	-	-	-	-	-	*0.00125* [2a]	-	*1.176*	-	*0.00857* [2a]	-	*0.0421* [2a]	-	-	-	-	*0.302* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	*0.0771* [2a]
Tier III Guideline			*0.1 (pH ≥ 6.5)* *0.005 (pH <6.5)*	-	-	-	-	-	-	-	-	-	-	*0.3*	-	-	-	-	*0.073*	-	-	-	*0.001*	-	*0.0001*	-	-	-	*0.0008*	-	-	*0.015*	-	-

Notes:
"-" = No Data NC = Not Calculated RPD = Relative Percent Difference

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.
   a. Calculated as per Manitoba Conservation (2011) using mean total hardness of 59.4 mg/L as $CaCO_3$ as measured in Cold Lake on May 11, 2016.
3. Duplicate exceeds acceptance criteria due to sample non homogeneity.

- Values above Tier II Chronic MWQSOG value.
- Values above Tier II Acute MWQSOG value.
- Values above Tier III MWQSOG guideline.

Sample ID	Date	Field Duplicate Sample ID	Parameter [1]																														
			Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (Ar)	Total Barium (Ba)	Total Beryllium (Be)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)	Total Molybdenum (Mb)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (Tl)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
TRIP BLANK	21-Feb-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	28-May-24		<0.0030	<0.00060	0.00021	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	11-Jun-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	25-Jun-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	10-Jul-24		0.0053	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	23-Jul-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	7-Aug-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	0.00054	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	20-Aug-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	4-Sep-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	17-Sep-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	2-Oct-24		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	17-Oct-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	0.00033	<0.020	<0.20	<0.0040	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
Laboratory Detection Limits			*0.0030*	*0.00060*	*0.00020*	*0.010*	*0.001*	*0.020*	*0.000020*	*0.30*	*0.0010*	*0.00030*	*0.0010*	*0.060*	*0.00020*	*0.020*	*0.20*	*0.0040*	*0.00020*	*0.00050*	*0.10*	*0.30*	*0.00020*	*0.10*	*0.00010*	*0.50*	*0.020*	*0.20*	*0.00020*	*0.0010*	*0.0010*	*0.00010*	*0.0010*	*0.0030*

Notes:
"-" = No Data NC = Not Calculated RPD = Relative Percent Difference

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.

TABLE 7
RAINBOW TROUT 96 HR LC_{50} TOXICITY RESULTS
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Concentration (%vol/vol)	Start				24 hours				48 hours				72 hours				96 hours								Result
			Temperature (°C)	pH	Conductivity (µS/cm)	DO (mg/L)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Temperature (°C)	pH	Conductivity (µS/cm)	DO (mg/L)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	96 hrs LC_{50} (% vol/vol)
CAMP LAKE DISCHARGE	25-May-24	0	14	7.9	385	9.4	0	0	0	0	0	0	0	0	0	0	0	0	14	8.0	390	9.0	0	0	0	0	>100
		6.25	14	7.6	400	9.6	0	0	0	0	0	0	0	0	0	0	0	0	14	7.9	399	9.0	0	0	0	0	
		12.5	14	7.4	407	9.3	0	0	0	0	0	0	0	0	0	0	0	0	14	7.7	406	8.5	0	0	0	0	
		25	15	7.4	423	9.4	0	0	0	0	0	0	0	0	0	0	0	0	14	7.9	422	9.1	0	0	0	0	
		50	15	7.4	453	9.5	0	0	0	0	0	0	0	0	0	0	0	0	14	7.7	454	9.1	0	0	0	0	
		100	15	5.2	526	9.4	0	0	0	0	0	0	0	0	0	0	0	0	14	5.3	527	9.3	2	20	AA(8)	80	
	10-Jul-24 [2]	0	14	8.3	386	9.7	0	0	0	0	0	0	0	0	0	0	0	0	14	8.5	389	9.6	0	0	0	0	0 [2a]
		6.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		12.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		100	14	7.4	155	9.6	0	0	0	0	0	0	0	0	0	0	0	0	14	7.7	160	9.6	0	0	0	0	
	04-Sep-24	0	14	8.4	366	9.5	0	0	0	0	0	0	0	0	0	0	0	0	14	8.1	368	9.0	0	0	0	0	>100
		6.25	14	8.5	353	9.4	0	0	0	0	0	0	0	0	0	0	0	0	14	8.2	359	9.2	0	0	0	0	
		12.5	14	8.4	348	9.6	0	0	0	0	0	0	0	0	0	0	0	0	14	8.1	352	9.2	0	0	0	0	
		25	14	8.3	332	9.6	0	0	0	0	0	0	0	0	0	0	0	0	14	8.1	336	9.1	0	0	0	0	
		50	15	8.2	300	9.5	0	0	0	0	0	0	0	0	0	0	0	0	14	8.0	304	9.1	0	0	0	0	
		100	15	7.8	231	9.4	0	0	0	0	0	0	0	0	0	0	0	0	14	7.5	233	9.2	0	0	0	0	
Metal and Diamond Mining Effluent Regulations [1]																											
Rainbow trout 96 hr LC_{50}			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100 [1a]

Notes:
"-" = No Data
AA = Lethargic

1. Metal and Diamond Mining Effluent Regulations (MDMER) discharge quality limits, SOR/2002-222, Minister of Justice, amended June 9, 2023.
   a. An LC_{50} value >100% indicates discharge is not acutely toxic to fish.
2. Limited volume for analysis. Test was conducted as a single test at full effluent concentration and not as an LC50.
a. This result refers to 0% mortality at 100% effluent concentration.

BOLD - Exceedance of MDMER Criteria

TABLE 9
HISTORICAL GROUNDWATER MONITORING AND FIELD CHEMISTRY
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Duplicate Sample ID	Depth to Water (m)	Depth to Bottom (m)	Stick up (m)	Ground Elevation (m above MSL) [1]	Groundwater Elevation (m above MSL)	Temperature (°C)	pH	EC (µS/cm)	DO (mg/L)	ORP (mV)	Notes
BEDROCK WELLS													
MW-01-BR	1-Feb-22		6.039	10.690	0.868	323.67	317.631	-	-	-	-	-	equipment malfunction, no data
	20-Sep-22		5.708	11.778	0.854	323.67	317.962	5.1	6.96	2028	9.05	125.7	
	14-Jun-23		5.008	11.550	0.841	323.67	318.662	6.5	7.38	2,247	5.82	17.4	
	3-Oct-23		5.969	11.488	0.839	323.67	317.701	6.5	7.48	2,265	7.15	112.4	light grey, no odour
	11-Jun-24		4.692	11.500	0.800	323.67	318.978	5.0	7.20	1993	6.25	10.1	brown, cloudy, no odour
	2-Oct-24		5.980	11.500	0.848	323.67	317.690	6.6	7.27	2219	5.92	90.8	clear, no odour
MW-02-BR	1-Feb-22		1.523	9.470	0.958	316.82	315.297	-	-	-	-	-	
	20-Sep-22		1.510	10.403	0.919	316.82	315.310	11.8	7.98	740	3.23	95.5	
	14-Jun-23		0.752	10.400	0.940	316.82	316.068	8.4	8.15	677	3.16	88.5	
	3-Oct-23		1.597	10.350	1.000	316.82	315.223	8.0	8.25	736	3.34	112.0	clear, no odour
	11-Jun-24		0.322	10.348	0.981	316.82	316.498	6.0	8.05	654.7	0.61	-3.5	clear, no odour
	2-Oct-24		1.371	10.355	0.985	316.82	315.449	5.2	8.20	744.4	1.84	64	gray sediment, turbid, metallic odour
MW-04-BR	7-Feb-22		1.340	13.310	0.970	317.00	315.660	-	-	-	-	-	
	20-Sep-22		1.450	14.310	0.994	317.00	315.550	5.1	8.30	910	5.95	87.5	
	14-Jun-23		0.956	14.273	1.088	317.00	316.044	6.5	8.57	890	5.04	53.1	
	3-Oct-23		1.353	14.224	1.001	317.00	315.647	6.7	8.69	1046	7.11	115.6	clear, no odour
	11-Jun-24		0.850	14.219	0.951	317.00	316.150	5.5	8.16	1034	6.06	0.6	grey, cloudy, faint sewage odour
	2-Oct-24		1.211	14.235	0.978	317.00	315.789	5.7	8.05	1032	4.62	70.8	clear, PHC odour
MW-05-BR	7-Feb-22		6.500	15.240	0.900	325.32	318.820	-	-	-	-	-	
	20-Sep-22		6.400	16.379	0.900	325.32	318.920	7.7	5.55	112	4.01	119.2	
	14-Jun-23		3.605	16.115	0.905	325.32	321.715	7.6	6.49	207.8	6.15	167.5	
	3-Oct-23		6.971	16.122	0.919	325.32	318.349	11.5	6.63	299.5	6.61	103.2	clear, no odour
	11-Jun-24	MW-100	3.126	16.070	0.927	325.32	322.194	6.0	6.26	258.5	6.79	10.0	cloudy, no odour
	2-Oct-24		6.836	16.110	0.924	325.32	318.484	8.1	6.89	396.3	7.61	104.7	clear, no odour
MW-06-BR	7-Feb-22		1.556	6.600	0.994	318.96	317.404	-	-	-	-	-	
	20-Sep-22		1.450	7.480	0.983	318.96	317.510	8.3	6.41	612.7	3.93	32.8	
	14-Jun-23	MW-100	1.508	7.480	1.005	318.96	317.452	8.4	6.07	734.0	2.89	125.3	
	3-Oct-23		1.612	7.473	1.022	318.96	317.348	8.6	6.17	680.0	2.31	140.5	clear, no odour
	11-Jun-24		1.385	7.478	1.032	318.96	317.575	6.2	5.95	733.2	8.85	60.4	clear with orange, no odour
	2-Oct-24		1.569	7.477	1.078	318.96	317.391	6.0	5.92	792.2	2.87	141.4	clear, no odour
MW-07-BR	7-Feb-22		3.387	9.400	0.942	327.17	323.783	-	-	-	-	-	
	20-Sep-22	MW-100	3.114	10.297	0.946	327.17	324.056	9.4	5.95	503.9	7.3	124.0	
	14-Jun-23		2.467	10.298	0.953	327.17	324.703	8.2	4.8	508.0	9.83	267.1	
	3-Oct-23		4.444	10.297	0.993	327.17	322.726	8.7	5.11	827.0	5.67	184.4	light yellow with particulates, no odour
	11-Jun-24		1.400	10.295	0.990	327.17	325.770	9.0	4.65	533.5	8.28	167.7	cloudy with yellow particulates, no odour
	2-Oct-24	MW-101	4.558	10.300	1.018	327.17	322.612	6.7	5.52	766.4	7.93	169.5	turbid, metallic odour
MW-08-BR	1-Feb-22		4.186	15.090	0.924	334.54	330.354	-	-	-	-	-	
	20-Sep-22		11.193	16.261	0.899	334.54	323.347	-	-	-	-	-	bailer down well - not sampled
	14-Jun-23		8.947	15.976	0.910	334.54	325.593	9.20	6.16	398.20	9.54	214.30	
	3-Oct-23		11.924	15.974	0.910	334.54	322.616	9.60	6.66	514.00	8.06	92.00	light grey, no odour
	11-Jun-24		7.663	15.922	0.911	334.54	326.877	6.7	5.62	354.7	11.65	131.0	grey, cloudy, no odour
	02-Oct-24		11.880	15.975	0.957	334.54	322.660	4.7	6.52	523.7	9.58	158.5	clear, no odour
OVERBURDEN WELLS													
MW-03-OB	7-Feb-22		1.699	8.660	0.942	317.28	315.581	-	-	-	-	-	
	20-Sep-22		1.319	8.306	1.055	317.28	315.961	5.2	7.13	770	4.05	57.0	equipment malfunction, no data
	14-Jun-23		1.275	8.193	1.082	317.28	316.005	6.4	7.28	854.0	2.27	-49.8	
	3-Oct-23	MW-100	1.736	8.187	1.110	317.28	315.544	6.0	7.09	848.0	1.5	139.9	dark brown, silty, no odour
	11-Jun-24		1.128	8.503	0.888	317.28	316.152	5.6	6.85	898	1.48	72.8	cloudy, no odour
	2-Oct-24		1.58	8.492	1.123	317.28	315.700	4.0	6.96	925	2.97	139.4	turbid, metallic odour
MW-04-OB	18-Mar-22		0.994	7.920	0.640	317.02	316.026	-	-	-	-	-	
	20-Sep-22		0.805	8.621	0.661	317.02	316.215	11.1	7.57	1129	3.32	80.4	
	14-Jun-23		0.641	8.631	0.705	317.02	316.379	9.2	7.58	1,039	5.04	58.6	
	3-Oct-23		1.064	8.631	0.645	317.02	315.956	8.5	7.65	1,201	5.12	115.2	brown, silty, waste water odour
	11-Jun-24		0.391	8.595	0.555	317.02	316.629	5.2	7.53	1174	5.25	2.3	brown, silty, cloudy, sewage odour
	2-Oct-24		1.944	8.587	0.676	317.02	315.076	7.0	7.56	1262	2.88	74.8	clear, no odour
MW-09-OB	1-Feb-22		0.917	5.500	0.902	317.50	316.583	-	-	-	-	-	
	20-Sep-22		0.860	6.451	0.861	317.50	316.640	10.2	6.51	460	3.02	24.5	
	14-Jun-23		0.820	6.491	0.970	317.50	316.680	5.8	10.59	941.0	1.86	-5.0	
	3-Oct-23		1.021	6.449	0.977	317.50	316.479	9.8	6.66	968.0	1.14	97.6	light grey, no odour
	11-Jun-24		0.709	6.458	1.010	317.50	316.791	6.9	6.43	953	1.19	69.0	orange, no odour
	2-Oct-24		0.982	6.454	1.032	317.50	316.518	4.9	6.57	987	2.01	108.2	clear, no odour
MW-10-OB	1-Feb-22	Duplicate	1.542	5.180	0.771	318.15	316.608	-	-	-	-	-	
	20-Sep-22		1.402	6.276	1.202	318.15	316.748	9.0	6.57	902	4.04	22.7	
	14-Jun-23		1.362	6.273	1.213	318.15	316.788	10.1	6.86	929	3.08	-17.4	
	3-Oct-23		1.554	6.271	1.258	318.15	316.596	8.5	6.58	945	2.64	122.3	clear, no odour
	11-Jun-24		1.238	6.275	1.260	318.15	316.912	7.3	6.46	930	2.45	43.7	clear with yellow, no odour
	2-Oct-24		1.522	6.278	1.267	318.15	316.628	6.9	6.42	577.2	9.94	130.8	clear, metallic odour
MW-11-OB	1-Feb-22		0.844	6.800	0.836	317.27	316.426	-	-	-	-	-	not sampled
	20-Sep-22		0.746	7.692	0.855	317.27	316.524	9.9	6.9	945.0	5.0	24.1	
	14-Jun-23		0.799	7.681	0.926	317.27	316.471	9.6	7.15	1018	4.11	-36.7	
	3-Oct-23		0.956	7.678	0.885	317.27	316.314	9.2	7.13	1039	3.49	90.0	clear, silty, no odour
	11-Jun-24		0.736	7.685	0.946	317.27	316.534	7.7	6.98	1039	4.30	47.1	faint orange, silty, no odour
	2-Oct-24		0.943	7.734	0.913	317.27	316.327	6.0	7.05	107.3	4.64	102.2	clear, no odour

Notes:
"-" = no value MSL = Mean Sea Level DO = Dissolved Oxygen EC = Electrical Conductivity ORP = Oxygen Reduction Potential

1. Ground elevations collected during geodetic survey in February 2022.

TABLE 10
GENERAL GROUNDWATER QUALITY
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Duplicate Sample ID	Anion Sum (meq/L)	Cation Sum (meq/L)	Ionic Balance (%)	pH (units)	E.C. (µS/cm)	Alkalinity (PP as $CaCO_3$)	Alkalinity (Total as $CaCO_3$)	Bicarbonate as $CaCO_3$	Carbonate as $CaCO_3$	Hydroxide as $CaCO_3$	Chloride	Sulphate	Total Hardness ($CaCO_3$)	Nitrate	Nitrate as N	Nitrite	Nitrite as N	Nitrate & Nitrite as N	T.D.S.
BEDROCK WELLS																					
MW-01-BR	1-Feb-22		-	-	-	8.02	1,400	<1.0	210	260	<1.0	<1.0	45	520	667	3.2	0.73	0.07	0.021	0.75	990
	20-Sep-22		28	30	2.2	7.62	2,200	<1.0	340	420	<1.0	<1.0	69	930	1400	12	2.6	0.45	0.14	2.8	1,700
	14-Jun-23		30	29	2.2	7.74	2,200	<1.0	350	420	<1.0	<1.0	54	1000	1300	0.22	0.049	<0.033	<0.010	0.049	1,800
	3-Oct-23		31	31	0.38	7.60	2,300	<1.0	370	450	<1.0	<1.0	65	1100	1400	0.10	0.023	<0.033	<0.010	0.023	1,900
	12-Jun-24		28	27	2.5	8.05	2,100	<1.0	350	430	<1.0	<1.0	52	950	1200	0.19	0.043	0.046	0.014	0.057	1,700
	3-Oct-24		28	29	0.97	7.81	2,200	<1.0	360	440	<1.0	<1.0	64	920	1300	2.9	0.65	0.067	0.020	0.67	1,700
MW-02-BR	1-Feb-22		-	-	-	8.23	680	<1.0	190	230	<1.0	<1.0	28	120	143	0.13	0.029	<0.033	<0.010	0.029	430
	20-Sep-22		7.9	8.1	1.1	7.83	770	<1.0	200	240	<1.0	<1.0	29	150	150	<0.044	<0.010	<0.033	<0.010	<0.010	470
	14-Jun-23		6.6	6.9	2.5	8.07	630	<1.0	180	220	<1.0	<1.0	20	120	120	<0.044	<0.010	<0.033	<0.010	<0.010	390
	3-Oct-23		7.2	7.2	0.23	7.64	670	<1.0	190	240	<1.0	<1.0	29	120	130	<0.044	<0.010	<0.033	<0.010	<0.010	420
	12-Jun-24		6.8	6.4	2.8	7.34	460	<1.0	190	230	<1.0	<1.0	25	110	110	0.049	0.011	<0.033	<0.010	0.011	380
	3-Oct-24		6.8	6.9	0.40	8.13	630	<1.0	200	250	<1.0	<1.0	26	96	120	<0.044	<0.010	<0.033	<0.010	<0.010	390
MW-04-BR	7-Feb-22		-	-	-	7.94	910	<1.0	190	230	<1.0	<1.0	32	230	200	0.66	0.15	<0.033	<0.010	0.15	590
	20-Sep-22		9.8	10	3.3	7.90	970	<1.0	210	260	<1.0	<1.0	27	230	190	0.053	0.012	<0.033	<0.010	0.012	600
	14-Jun-23		8.8	9.5	3.6	8.25	880	<1.0	200	240	<1.0	<1.0	20	200	130	0.37	0.083	<0.033	<0.010	0.083	550
	3-Oct-23		10	10	0.067	8.08	990	<1.0	240	290	<1.0	<1.0	30	230	100	0.51	0.11	<0.033	<0.010	0.11	630
	12-Jun-24		11	10	6.0	7.66	1,000	<1.0	210	260	<1.0	<1.0	33	300	210	0.11	0.025	<0.033	<0.010	0.025	670
	3-Oct-24		10	11	2.7	7.97	1,000	<1.0	210	250	<1.0	<1.0	32	250	210	2.4	0.54	0.041	0.012	0.55	630
MW-05-BR	7-Feb-22		-	-	-	6.54	310	<1.0	84	100	<1.0	<1.0	19	48	130	0.26	0.058	<0.033	<0.010	0.058	190
	20-Sep-22		1.1	1.1	NC	5.91	120	<1.0	15	18	<1.0	<1.0	<1.0	36	47	0.48	0.11	<0.033	<0.010	0.11	67
	14-Jun-23		2.0	2.1	NC	6.71	200	<1.0	54	65	<1.0	<1.0	<1.0	43	98	0.064	0.015	<0.033	<0.010	0.015	120
	3-Oct-23		3.0	2.7	4.7	6.51	260	<1.0	100	130	<1.0	<1.0	<1.0	44	130	0.19	0.044	<0.033	<0.010	0.044	160
	12-Jun-24		2.5	2.3	4.7	6.48	230	<1.0	75	91	<1.0	<1.0	<1.0	48	100	<0.044	<0.010	<0.033	<0.010	<0.010	140
		MW-100	2.5	2.3	2.9	6.42	230	<1.0	76	93	<1.0	<1.0	<1.0	46	110	<0.044	<0.010	<0.033	<0.010	<0.010	140
	RPD		*0%*	*0%*	*47%*	*1%*	*0%*	*NC*	*1%*	*2%*	*NC*	*NC*	*NC*	*4%*	*10%*	*NC*	*NC*	*NC*	*NC*	*NC*	*0%*
	3-Oct-24		3.7	3.4	3.8	6.78	320	<1.0	150	180	<1.0	<1.0	<1.0	37	160	0.12	0.026	<0.033	<0.010	0.026	190
MW-06-BR	7-Feb-22		-	-	-	6.23	440	<1.0	47	57	<1.0	<1.0	7.1	160	200	0.070	0.016	<0.033	<0.010	0.016	280
	20-Sep-22		6.3	6.1	1.8	5.94	650	<1.0	27	33	<1.0	<1.0	<1.0	280	280	0.056	0.013	<0.033	<0.010	0.013	410
	14-Jun-23		7.0	7.1	1.2	6.19	700	<1.0	22	27	<1.0	<1.0	<1.0	310	330	<0.044	<0.010	<0.033	<0.010	<0.010	460
		MW-100	7.4	7.4	0.32	6.18	710	<1.0	25	30	<1.0	<1.0	<1.0	330	340	<0.044	<0.010	<0.033	<0.010	<0.010	490
	RPD		*6%*	*4%*	*116%*	*0%*	*1%*	*NC*	*13%*	*11%*	*NC*	*NC*	*NC*	*6%*	*3%*	*NC*	*NC*	*NC*	*NC*	*NC*	*6%*
	3-Oct-23		6.3	5.8	4.1	5.81	620	<1.0	22	27	<1.0	<1.0	<1.0	280	260	<0.044	<0.010	<0.033	<0.010	<0.010	400
	12-Jun-24		8.6	6.5	14	5.95	690	<1.0	25	30	<1.0	<1.0	<1.0	390	290	0.34	0.076	<0.033	<0.010	0.076	530
	3-Oct-24		6.5	5.7	6.2	5.94	650	<1.0	22	27	<1.0	<1.0	<1.0	290	260	<0.044	<0.010	<0.033	<0.010	<0.010	410
MW-07-BR	7-Feb-22		-	-	-	6.28	530	<1.0	51	62	<1.0	<1.0	9.7	200	240	3.5	0.80	<0.033	<0.010	0.80	360
	20-Sep-22		5.0	4.7	3.8	4.54	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	240	210	2.7	0.61	<0.033	<0.010	0.61	330
		MW-100	5.1	4.7	4.6	4.60	550	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	240	210	3.0	0.68	<0.033	<0.010	0.68	340
	RPD		*2%*	*0%*	*19%*	*1%*	*0%*	*NC*	*NC*	*NC*	*NC*	*NC*	*NC*	*0%*	*0%*	*11%*	*11%*	*NC*	*NC*	*11%*	*3%*
	14-Jun-23		4.8	4.3	5.7	4.43	490	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	230	200	1.4	0.32	<0.010	<0.010	0.32	310
	3-Oct-23		7.8	8.4	3.4	4.80	770	<1.0	1.2	1.5	<1.0	<1.0	<1.0	370	390	4.1	0.92	<0.033	<0.010	0.92	540
	12-Jun-24		5.5	4.0	16	4.56	500	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	260	180	2.6	0.58	<0.033	<0.010	0.58	340
	3-Oct-24		7.1	7.0	0.42	5.42	710	<1.0	7.7	9.4	<1.0	<1.0	<1.0	330	330	1.9	0.42	<0.033	<0.010	0.42	470
		MW-101	7.0	7.1	0.71	5.57	720	<1.0	9.7	12	<1.0	<1.0	<1.0	320	330	2.0	0.44	<0.033	<0.010	0.44	470
	RPD		*1%*	*1%*	*51%*	*3%*	*1%*	*NC*	*23%*	*24%*	*NC*	*NC*	*NC*	*3%*	*0%*	*5%*	*5%*	*NC*	*NC*	*5%*	*0%*
MW-08-BR	1-Feb-22		-	-	-	7.71	200	<1.0	49	60	<1.0	<1.0	22	10	39	1.4	0.31	0.044	0.013	0.32	110
	14-Jun-23		4.0	4.2	2.4	6.46	400	<1.0	29	35	<1.0	<1.0	<1.0	160	190	1.4	0.31	<0.033	0.31	0.31	260
	3-Oct-23		4.7	4.3	5.0	6.36	450	<1.0	59	72	<1.0	<1.0	<1.0	170	200	1.4	0.32	<0.033	<0.010	0.32	290
	12-Jun-24		3.8	3.4	5.6	6.13	390	<1.0	21	26	<1.0	<1.0	<1.0	160	150	1.3	0.29	<0.033	<0.010	0.29	240
	3-Oct-24		4.4	4.6	2.3	6.73	440	<1.0	71	86	<1.0	<1.0	<1.0	140	210	0.99	0.22	<0.033	<0.010	0.22	270
OVERBURDEN WELLS																					
MW-03-OB	7-Feb-22		-	-	-	6.89	800	<1.0	210	250	<1.0	<1.0	2.0	240	430	0.39	0.088	<0.033	<0.010	0.088	550
	20-Sep-22		9.1	9.7	3.2	7.15	840	<1.0	200	250	<1.0	<1.0	2.0	240	440	0.11	0.025	<0.033	<0.010	0.025	550
	14-Jun-23		9.2	10	4.1	7.53	820	<1.0	200	240	<1.0	<1.0	1.7	250	450	<0.044	<0.010	<0.033	<0.010	<0.010	560
	3-Oct-23		9.4	9.4	0.34	6.95	820	<1.0	210	260	<1.0	<1.0	2.0	250	420	<0.044	<0.010	<0.033	<0.010	<0.010	550
			9.3	9.5	1.2	7.10	820	<1.0	210	250	<1.0	<1.0	2.2	240	430	<0.22	<0.050	<0.033	<0.010	<0.050 [3]	550
	RPD		*1%*	*1%*	*112%*	*2%*	*0%*	*NC*	*0%*	*4%*	*NC*	*NC*	*10%*	*4%*	*2%*	*NC*	*NC*	*NC*	*NC*	*NC*	*0%*
	12-Jun-24		11	9.6	5.9	7.16	860	<1.0	210	260	<1.0	<1.0	1.4	310	430	<0.22	<0.050	<0.033	<0.010	<0.050 [3]	620
	3-Oct-24		9.6	10	2.2	7.12	840	<1.0	210	260	<1.0	<1.0	2.2	260	450	<0.044	<0.010	<0.033	<0.010	<0.010	580
MW-04-OB	18-Mar-22		-	-	-	7.84	1,100	<1.0	360	440	<1.0	<1.0	14	250	570	<0.044	<0.010	<0.033	<0.010	<0.010	700
	20-Sep-22		14	16	5.7	7.81	1,200	<1.0	360	440	<1.0	<1.0	14	300	700	0.097	0.022	<0.033	<0.010	0.022	810
	14-Jun-23		12	12	3.2	7.81	1,000	<1.0	340	410	<1.0	<1.0	13	210	560	<0.044	<0.010	<0.033	<0.010	<0.010	660
	3-Oct-23		14	15	2.2	7.77	1,200	<1.0	380	460	<1.0	<1.0	16	300	660	<0.044	<0.010	<0.033	<0.010	<0.010	810
	12-Jun-24		13	13	1.4	7.91	1,100	<1.0	370	460	<1.0	<1.0	14	250	570	0.11	0.025	<0.033	<0.010	0.025	720
	3-Oct-24		14	15	3.4	7.86	1,200	<1.0	370	450	<1.0	<1.0	14	300	670	<0.044	<0.010	<0.033	<0.010	<0.010	800
MW-09-OB	1-Feb-22		-	-	-	7.00	930	<1.0	100	130	<1.0	<1.0	<1.0	420	456	0.16	0.035	<0.033	<0.010	0.035	700
	20-Sep-22		9.7	10	1.4	6.20	920	<1.0	88	110	<1.0	<1.0	1.2	380	460	0.15	0.034	<0.033	<0.010	0.034	620
	14-Jun-23		9.6	10	3.4	6.62	870	<1.0	60	73	<1.0	<1.0	<1.0	400	460	<0.22	<0.050	<0.033	<0.010	<0.050	630
	3-Oct-23		10	10	0.26	6.29	900	<1.0	100	130	<1.0	<1.0	<1.0	390	450	<0.22	<0.050	<0.16	<0.050 [3]	0.014	640
	12-Jun-24		12	9.3	11	6.20	880	<1.0	84	100	<1.0	<1.0	<1.0	480	410	0.066	0.015	<0.033	<0.010	0.015	710
	3-Oct-24		9.7	10	1.9	6.47	890	<1.0	93	110	<1.0	<1.0	1.1	370	450	<0.22	<0.050	<0.16	<0.050 [3]	<0.050 [3]	620
MW-10-OB	1-Feb-22		-	-	-	6.87	960	<1.0	100	120	<1.0	<1.0	<1.0	420	426	1.6	0.36	<0.033	<0.010	0.36	690
		Duplicate	-	-	-	6.84	960	<1.0	100	120	<1.0	<1.0	1.3	430	443	1.6	0.37	<0.033	<0.010	0.37	710
	RPD		*NC*	*NC*	*NC*	*0%*	*0%*	*NC*	*0%*	*0%*	*NC*	*NC*	*NC*	*2%*	*4%*	*0%*	*3%*	*NC*	*NC*	*3%*	*3%*
	20-Sep-22		9.9	11	4.1	6.39	960	<1.0	110	130	<1.0	<1.0	<1.0	370	470	<0.044	<0.010	<0.033	<0.010	<0.010	640
	14-Jun-23		9.9	10	2.3	6.56	870	<1.0	65	80	<1.0	<1.0	<1.0	410	450	<0.044	<0.010	<0.033	<0.010	<0.010	650
	3-Oct-23		9.7	10	1.7	6.19	880	<1.0	77	94	<1.0	<1.0	<1.0	390	430	<0.22	<0.050	<0.16	<0.050 [3]	0.035	630
	12-Jun-24		10	9.3	4.3	6.19	860	<1.0	67	82	<1.0	<1.0	<1.0	420	400	<0.044	<0.010	<0.033	<0.010	<0.010	640
	3-Oct-24		8.8	9.3	3.0	6.20	850	<1.0	70	85	<1.0	<1.0	1.0	350	400	<0.22	<0.050	<0.16	<0.050 [3]	<0.050 [3]	570
MW-11-OB	20-Sep-22		11	12	4.5	7.02	1,000	<1.0	180	220	<1.0	<1.0	<1.0	380	590	0.070	0.016	<0.033	<0.010	0.016	710
	14-Jun-23		12	13	4.7	7.58	1,000	<1.0	170	210	<1.0	<1.0	1.0	390	600	<0.044	<0.010	<0.033	<0.010	<0.010	720
	3-Oct-23		12	12	1.4	6.77	1,000	<1.0	170	210	<1.0	<1.0	1.1	390	550	0.083	0.019	<0.033	<0.010	0.019	710
	12-Jun-24		13	11	8.8	7.01	1,000	<1.0	170	210	<1.0	<1.0	<1.0	470	520	0.13	0.029	<0.033	<0.010	0.029	770
	3-Oct-24		11	12	3.6	7.25	1,000	<1.0	170	200	<1.0	<1.0	1.3	370	560	<0.044	<0.010	<0.033	<0.010	<0.010	690
QA/QC																					
FIELD BLANK	20-Sep-22		0	0.009	NC	5.06	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.044	<0.010	<0.033	<0.010	<0.010	<10
	14-Jun-23		0	0.0160	NC	4.80	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.010	<0.010	<0.033	<0.010	<0.010	<10
	3-Oct-23		0	0.011	NC	4.95	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.044	<0.010	<0.033	<0.010	<0.010	<10
	12-Jun-24		0	0.004	NC	5.38	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.044	<0.010	<0.033	<0.010	<0.010	<10
TRIP BLANK	20-Sep-22		0	0.012	NC	4.90	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.044	<0.010	<0.033	<0.010	<0.010	<10
	14-Jun-23		0	0.007	NC	5.15	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.044	<0.010	<0.033	<0.010	<0.010	<10
	3-Oct-23		0	0.012	NC	4.93	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.044	<0.010	<0.033	<0.010	<0.010	<10
	12-Jun-24		0	0.009	NC	5.05	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.044	<0.010	<0.033	<0.010	<0.010	<10
	3-Oct-24		0	0.007	NC	5.13	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50	<0.044	<0.010	<0.033	<0.010	<0.010	<10
Laboratory Detection Limits						-	*2.0*	*1.0*	*1.0*	*1.0*	*1.0*	*1.0*	*1.0*	*1-25*	*0.50*	*0.044-0.22*	*0.010-0.050*	*0.033*	*0.010*	*0.010-0.050*	*10-25*
Manitoba Water Quality Standards, Objectives, and Guidelines [2]																					
Protection of Cool Water Aquatic Life																					
Tier III Guideline						*6.5 - 9.0*													*0.06*		

Notes:
"-" = No Data E.C. = Electrical Conductivity T.D.S. = Total Dissolved Solids

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.

- Exceedance of MWQSOG Criteria

TABLE 11
DISSOLVED METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Duplicate Sample ID	Parameter[1]																																
			Aluminum (Al) Dissolved	Antimony (Sb) Dissolved	Arsenic (As) Dissolved	Barium (Ba) Dissolved	Beryllium (Be) Dissolved	Boron (B) Dissolved	Cadmium (Cd) Dissolved	Calcium (Ca) Dissolved	Chromium (Cr) Dissolved	Cobalt (Co) Dissolved	Copper (Cu) Dissolved	Iron (Fe) Dissolved	Lead (Pb) Dissolved	Lithium (Li) Dissolved	Magnesium (Mg) Dissolved	Manganese (Mn) Dissolved	Mercury (Hg) Dissolved	Molybdenum (Mo) 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) Dissolved	Thallium (Tl) Dissolved	Tin (Sn) Dissolved	Titanium (Ti) Dissolved	Uranium (U) Dissolved	Vanadium (V) Dissolved	Zinc (Zn) Dissolved
BEDROCK WELLS																																			
MW-01-BR	1-Feb-22		0.046	<0.00060	0.00046	0.12	<0.0010	0.11	0.000063	160	<0.0010	0.0044	0.0044	<0.060	<0.00020	0.041	81	0.17	<0.0000919	0.0066	0.0046	<0.10	21	0.0036	5.4	<0.00010	32	0.98	170	<0.00020	0.0012	<0.0010	0.023	<0.0010	0.012
	20-Sep-22		<0.0030	<0.00060	0.00050	0.10	<0.0010	0.19	<0.000020	290	<0.0010	0.017	<0.0010	<0.060	<0.00020	0.033	160	1.6	<0.0000919	0.010	0.013	<0.10	21	0.0086	5.5	<0.00010	41	1.4	310	<0.00020	<0.0010	<0.0010	0.052	<0.0010	0.0032
	14-Jun-23		0.0048	<0.00060	0.00052	0.016	<0.0010	0.19	0.000098	270	<0.0010	0.0062	0.0046	0.073	<0.00020	0.051	160	0.35	<0.0000919	0.0026	0.0041	<0.10	21	0.0032	6.7	<0.00010	44	1.9	350	<0.00020	<0.0010	<0.0010	0.074	<0.0010	0.016
	3-Oct-23		<0.0030	<0.00060	0.0016	0.050	<0.0010	0.21	<0.000020	300	<0.0010	0.0060	<0.0010	2.9	<0.00020	0.048	170	1.1	<0.0000919	0.0033	0.0032	<0.10	19	0.00055	6.6	<0.00010	48	2.1	340	<0.00020	<0.0010	<0.0010	0.12	0.0011	<0.0030
	12-Jun-24		<0.0030	<0.00060	0.0013	0.045	<0.0010	0.18	0.000024	260	<0.0010	0.0049	0.0012	0.77	<0.00020	0.040	140	1.0	<0.0000919	0.0029	0.0029	<0.10	19	0.0012	6.2	<0.00010	41	1.7	280	<0.00020	<0.0010	<0.0010	0.072	<0.0010	0.0048
	3-Oct-24		<0.0030	<0.00060	<0.000020	0.056	<0.0010	0.19	0.000060	280	<0.0010	0.0011	0.0035	<0.060	<0.00020	0.046	160	0.15	<0.0000919	0.0012	0.0024	<0.10	21	0.0048	5.9	<0.00010	38	1.7	300	<0.00020	<0.0010	<0.0010	0.11	<0.0010	0.0030
MW-02-BR	1-Feb-22		0.0059	<0.00060	0.00020	0.063	<0.0010	0.53	<0.000020	33	<0.0010	0.0082	0.0034	<0.060	<0.00020	0.075	17	0.078	<0.0000919	0.0013	0.0015	<0.10	9.0	<0.00020	7.2	<0.00010	110	0.44	49	<0.00020	<0.0010	<0.0010	0.0053	<0.0010	0.013
	20-Sep-22		0.0030	<0.00060	0.00051	0.052	<0.0010	0.54	<0.000020	32	<0.0010	0.0018	0.0015	<0.060	<0.00020	0.083	17	0.068	<0.0000919	0.00055	<0.00050	<0.10	6.9	<0.00020	6.4	<0.00010	110	0.42	48	<0.00020	<0.0010	<0.0010	0.0060	<0.0010	<0.0030
	14-Jun-23		0.0035	<0.00060	0.00059	0.042	<0.0010	0.48	<0.000020	26	<0.0010	0.0016	0.0036	<0.060	<0.00020	0.084	14	0.058	<0.0000919	0.00068	<0.00050	<0.10	6.0	<0.00020	7.3	<0.00010	98	0.36	41	<0.00020	<0.0010	<0.0010	0.0058	<0.0010	<0.0030
	3-Oct-23		0.0059	<0.00060	0.00060	0.034	<0.0010	0.54	<0.000020	27	<0.0010	0.0024	<0.0010	0.15	<0.00020	0.078	15	0.057	<0.0000919	0.0008	<0.00050	<0.10	6.2	<0.00020	6.6	<0.00010	100	0.37	40	<0.00020	<0.0010	<0.0010	0.0064	<0.0010	<0.0030
	12-Jun-24		0.0055	<0.00060	0.00063	0.028	<0.0010	0.49	<0.000020	23	<0.0010	0.0034	<0.0010	0.14	0.00022	0.067	12	0.049	<0.0000919	0.00095	<0.00050	<0.10	5.7	<0.00020	5.8	<0.00010	93	0.30	30	<0.00020	<0.0010	<0.0010	0.0045	<0.0010	<0.0030
	3-Oct-24		0.047	<0.00060	0.00069	0.029	<0.0010	0.52	<0.000020	24	<0.0010	0.020	0.023	0.064	<0.00020	0.073	13	0.052	<0.0000919	0.0010	0.0058	<0.10	6.3	<0.00020	6.9	<0.00010	100	0.31	33	<0.00020	<0.0010	0.0021	0.0050	0.0015	<0.0030
MW-04-BR	7-Feb-22		0.013	<0.00060	0.00099	0.034	<0.0010	0.43	<0.000020	39	<0.0010	0.00063	0.00075	<0.060	<0.00020	0.13	24	0.059	<0.0000919	0.0042	0.00066	<0.10	8.8	0.00027	5.9	<0.00010	140	0.64	81	<0.00020	<0.0010	<0.0010	0.0067	<0.0010	<0.0030
	20-Sep-22		0.0074	<0.00060	0.0023	0.040	<0.0010	0.49	<0.000020	37	<0.0010	0.00055	<0.0010	<0.060	<0.00020	0.13	23	0.096	<0.0000919	0.0059	0.00079	<0.10	8.9	0.0002	6.0	<0.00010	150	0.62	79	<0.00020	<0.0010	<0.0010	0.0090	<0.0010	<0.0030
	14-Jun-23		0.0031	<0.00060	0.0046	0.031	<0.0010	0.45	<0.000021	25	<0.0010	0.00041	<0.0010	<0.060	<0.00020	0.13	16	0.13	<0.0000919	0.0065	0.0011	0.10	6.1	0.00033	5.9	<0.00010	160	0.44	74	<0.00020	<0.0010	<0.0010	0.0075	<0.0010	<0.0030
	3-Oct-23		0.0039	0.00086	0.0058	0.027	<0.0010	0.49	<0.000020	20	<0.0010	0.00035	<0.0010	<0.060	<0.00020	0.11	13	0.093	<0.0000919	0.0074	0.0012	<0.10	5.2	0.00023	5.6	<0.00010	190	0.36	78	<0.00020	<0.0010	<0.0010	0.010	0.0022	<0.0030
	12-Jun-24		<0.0030	<0.00060	0.0014	0.046	<0.0010	0.43	<0.000020	41	<0.0010	0.00032	<0.0010	<0.060	<0.00020	0.12	26	0.09	<0.0000919	0.00087	0.00057	<0.10	9.0	<0.00020	5.4	<0.00010	130	0.72	79	<0.00020	<0.0010	<0.0010	0.0055	<0.0010	<0.0030
	3-Oct-24		0.0039	<0.00060	0.0023	0.046	<0.0010	0.46	<0.000020	41	<0.0010	0.00033	0.0019	<0.060	<0.00020	0.13	27	0.10	<0.0000919	0.0016	0.00096	<0.10	9.3	<0.00020	6.0	<0.00010	150	0.70	87	<0.00020	<0.0010	<0.0010	0.0064	<0.0010	<0.0030
MW-05-BR	7-Feb-22		0.036	<0.00060	0.00022	0.025	<0.0010	<0.020	0.000039	42	<0.0010	0.22	0.0044	<0.060	<0.00020	<0.020	6.6	0.51	0.0000022	0.0018	0.017	<0.10	10.0	0.00038	4.7	<0.00010	9.1	0.068	17	<0.00020	<0.0010	0.0016	0.0032	<0.0010	0.0048
	20-Sep-22		0.12	<0.00060	<0.00020	0.014	<0.0010	<0.020	0.000079	14	<0.0010	0.0091	0.014	<0.060	<0.00020	<0.020	3.2	0.13	<0.0000919	<0.00020	0.0038	<0.10	3.0	0.0003	5.8	<0.00010	1.6	<0.020	12	<0.00020	<0.0010	<0.0010	0.00064	<0.0010	0.029
	14-Jun-23		0.019	<0.00060	<0.00020	0.016	<0.0010	<0.020	0.00011	32	<0.0010	0.0075	0.0036	<0.060	<0.00020	<0.020	4.6	0.35	<0.0000919	<0.00020	0.0025	<0.10	3.6	<0.00020	6.0	<0.00010	1.5	0.034	15	<0.00020	<0.0010	<0.0010	0.0021	<0.0010	0.046
	3-Oct-23		0.017	<0.00060	<0.00020	0.031	<0.0010	<0.020	0.000057	40	<0.0010	0.0027	0.0029	<0.060	<0.00020	<0.020	6.4	0.20	<0.0000919	<0.00020	0.0015	<0.10	4.1	<0.00020	5.7	<0.00010	1.8	0.041	14	<0.00020	<0.0010	<0.0010	0.0017	<0.0010	0.015
	12-Jun-24		1.0	<0.00060	<0.00020	0.021	<0.0010	<0.020	0.000069	34	<0.0010	0.0072	0.0098	1.2	0.00056	<0.020	4.6	0.29	<0.0000919	<0.00020	0.0017	<0.10	3.4	<0.00020	5.3	<0.00010	1.5	0.030	13	<0.00020	<0.0010	0.047	0.0017	<0.0010	0.025
		MW-100	0.024	<0.00060	<0.00020	0.017	<0.0010	<0.020	0.000096	36	<0.0010	0.0033	0.0026	<0.060	<0.00020	<0.020	4.5	0.30	<0.0000919	<0.00020	0.0015	<0.10	3.5	<0.00020	5.0	<0.00010	1.5	0.031	14	<0.00020	<0.0010	<0.0010	0.0017	<0.0010	0.027
	RPD		*191%*	*NC*	*NC*	*21%*	*NC*	*NC*	*4%*	*8%*	*NC*	*74%*	*116%*	*NC*	*NC*	*NC*	*2%*	*3%*	*NC*	*NC*	*13%*	*NC*	*3%*	*NC*	*0%*	*8%*	*NC*	*0%*	*3%*	*7%*	*NC*	*NC*	*NC*	*0%*	*NC*	*8%*
	3-Oct-24		0.026	<0.00060	<0.00020	0.025	<0.0010	0.021	0.000051	54	0.0010	0.0020	0.0036	<0.060	<0.00020	<0.020	6.4	0.20	<0.0000919	0.00022	0.0019	<0.10	4.1	<0.00020	5.6	<0.00010	2.0	0.058	12	<0.00020	<0.0010	0.0012	0.0025	<0.0010	0.010
MW-06-BR	7-Feb-22		0.0049	<0.00060	<0.00020	0.027	<0.0010	0.021	0.039	60	<0.0010	0.023	0.025	0.21	<0.00020	0.03	12	0.99	<0.0000919	0.00037	0.050	<0.10	8.0	0.0003	5.8	<0.00010	5.3	0.11	55	<0.00020	<0.0010	<0.0010	0.00088	<0.0010	8.5
	20-Sep-22		<0.0030	<0.00060	<0.00020	0.024	<0.0010	0.038	0.100	83	<0.0010	0.044	0.22	0.17	<0.00020	<0.020	18	1.6	<0.0000919	<0.00020	0.017	<0.10	8.3	<0.00020	7.4	<0.00010	4.4	0.14	99	0.00021	<0.0010	<0.0010	0.00069	<0.0010	27
	14-Jun-23		0.0077	<0.00060	<0.00020	0.024	<0.0010	0.041	0.110	95	<0.0010	0.047	0.37	2.5	<0.00020	0.05	22	1.9	<0.0000919	<0.00020	0.017	<0.10	8.1	<0.00020	8.6	<0.00010	4.9	0.17	130	<0.00020	<0.0010	<0.0010	0.0012	<0.0010	34
		MW-100	0.0081	<0.00060	<0.00020	0.026	<0.0010	0.042	0.110	99	<0.0010	0.048	0.37	2.2	<0.00020	0.054	22	1.9	<0.0000919	<0.00020	0.017	<0.10	8.2	<0.00020	8.3	<0.00010	5.4	0.18	110	<0.00020	<0.0010	<0.0010	0.0012	<0.0010	35
	RPD		*0%*	*NC*	*NC*	*8%*	*NC*	*2%*	*0%*	*4%*	*NC*	*2%*	*0%*	*13%*	*NC*	*8%*	*0%*	*0%*	*NC*	*NC*	*0%*	*NC*	*2%*	*NC*	*4%*	*NC*	*10%*	*4%*	*17%*	*NC*	*NC*	*NC*	*0%*	*NC*	*3%*
	3-Oct-23		0.070	0.0014	0.00025	0.018	<0.0010	0.041	0.100	74	<0.0010	0.041	0.48	4.5	0.0052	0.044	18	1.5	<0.0000919	<0.00020	0.014	<0.10	7.6	<0.00020	7.5	<0.00010	4.5	0.14	98	0.00025	<0.0010	<0.0010	0.0019	<0.0010	28
	12-Jun-24		0.069	<0.00060	<0.00020	0.021	<0.0010	0.046	0.120	86	<0.0010	0.047	0.54	4.6	0.0038	0.048	19	1.6	<0.0000919	<0.00020	0.016	<0.10	7.5	<0.00020	6.9	<0.00010	4.7	0.15	100	<0.00020	<0.0010	<0.0010	0.0021	<0.0010	31
	3-Oct-24		0.11	<0.00060	0.00023	0.020	<0.0010	0.038	0.099	74	<0.0010	0.041	0.53	4.0	0.0055	0.046	18	1.4	<0.0000919	<0.00020	0.015	<0.10	7.8	<0.00020	7.7	<0.00010	4.2	0.13	92	<0.00020	<0.0010	<0.0010	0.0020	<0.0010	22
MW-07-BR	7-Feb-22		0.038	<0.00060	0.00029	0.044	<0.0010	<0.020	0.019	75	<0.0010	0.015	0.69	<0.060	<0.00020	0.021	12	0.43	0.0000116	0.0048	0.035	<0.10	12.0	0.0013	7.8	<0.00010	14	0.14	69	<0.00020	<0.0010	<0.0010	0.0029	<0.0010	5
	20-Sep-22		3.5	<0.00060	<0.00020	0.029	<0.0010	<0.020	0.066	63	<0.0010	0.032	5.8	0.064	0.00039	<0.020	13	0.57	<0.0000919	<0.00020	0.019	0.11	10	0.00069	12	<0.00010	2.6	0.077	88	<0.00020	<0.0010	<0.0010	0.0032	<0.0010	17
		MW-100	3.3	<0.00060	<0.00020	0.029	<0.0010	0.020	0.064	64	<0.0010	0.031	5.6	<0.060	0.00029	<0.020	13	0.57	<0.0000919	<0.00020	0.019	0.11	10	0.00092	12	<0.00010	2.7	0.078	87	<0.00020	<0.0010	<0.0010	0.0029	<0.0010	16
	RPD		*6%*	*NC*	*NC*	*0%*	*NC*	*NC*	*3%*	*2%*	*NC*	*3%*	*4%*	*NC*	*29%*	*NC*	*0%*	*0%*	*NC*	*NC*	*0%*	*0%*	*0%*	*29%*	*0%*	*NC*	*4%*	*1%*	*1%*	*NC*	*NC*	*NC*	*10%*	*NC*	*6%*
	14-Jun-23		4.6	<0.012	<0.0040	0.019	<0.040	<0.020	0.057	57	<0.020	0.036	6.2	0.076	<0.0040	<0.020	13	0.58	<0.0000919	<0.0040	0.019	0.14	7.3	<0.0040	12	<0.0020	2.7	0.076	74	<0.0040	<0.020	<0.020	0.0036	<0.020	14
	3-Oct-23		2.1	<0.00060	0.00025	0.019	<0.0010	0.021	0.061	120	<0.0010	0.018	3.2	<0.060	0.00051	0.025	20	0.36	0.0000025	<0.00020	0.015	<0.10	13	0.0012	11	<0.00010	3.8	0.13	140	<0.00020	<0.0010	<0.0010	0.0043	<0.0010	14
	12-Jun-24		3.8	<0.00060	<0.00020	0.019	<0.0010	<0.020	0.060	54	<0.0010	0.035	6.1	<0.060	0.00038	<0.020	12	0.53	<0.0000919	<0.00020	0.018	0.11	6.4	0.00079	11	<0.00010	2.6	0.075	74	<0.00020	<0.0010	<0.0010	0.0032	<0.0010	15
	03-Oct-24		1.7	<0.00060	<0.00020	0.022	<0.0010	0.021	0.063	100	<0.0010	0.025	4.1	<0.060	0.00058	0.025	18	0.45	<0.0000919	<0.00020	0.020	<0.10	12	0.0012	11	<0.00010	3.4	0.11	110	<0.00020	<0.0010	<0.0010	0.0050	<0.0010	13
		MW-101	1.6	<0.00060	<0.00020	0.021	<0.0010	<0.020	0.062	100	<0.0010	0.023	3.8	<0.060	0.00041	0.026	18	0.44	<0.0000919	<0.00020	0.018	<0.10	12	0.0012	11	<0.00010	3.4	0.11	110	<0.00020	<0.0010	<0.0010	0.0046	<0.0010	12
	RPD		*6%*	*NC*	*NC*	*5%*	*NC*	*NC*	*2%*	*0%*	*NC*	*8%*	*8%*	*NC*	*34%*	*4%*	*0%*	*2%*	*NC*	*NC*	*11%*	*0%*	*0%*	*0%*	*0%*	*NC*	*0%*	*0%*	*0%*	*NC*	*NC*	*NC*	*8%*	*NC*	*8%*
MW-08-BR	1-Feb-22		0.089	<0.00060	0.00052	<0.010	<0.0010	<0.020	0.000029	9.3	<0.0010	0.0025	0.011	0.36	0.00033	<0.020	2.3	0.033	<0.0000919	0.011	0.0051	<0.10	3.3	0.00046	3.0	<0.00010	33	0.051	3.4	<0.00020	<0.0010	0.0015	0.0028	<0.0010	0.0035
	14-Jun-23		0.068	<0.00060	<0.00020	0.022	<0.0010	0.029	0.0024	56	<0.0010	0.041	0.12	0.072	<0.00020	0.045	12	0.40	<0.0000919	0.00033	0.022	0.12	5.6	0.00034	12	<0.00010	4.0	0.11	60	<0.00020	<0.0010	<0.0010	0.0017	<0.0010	1.5
	3-Oct-23		0.11	<0.00060	<0.00020	0.026	<0.0010	0.032	0.0029	58	<0.0010	0.052	0.23	<0.060	<0.00020	0.035	13	0.36	<0.0000919	0.00033	0.024	<0.10	5.7	0.00031	9.9	<0.00010	3.9	0.13	52	<0.00020	<0.0010	<0.0010	0.0037	<0.0010	1.6
	12-Jun-24		0.47	<0.00060	<0.00020	0.018	<0.0010	0.021	0.0039	44	<0.0010	0.030	0.57	<0.060	<0.00020	0.035	10	0.40	<0.0000919	<0.00020	0.014	<0.10	5.0	0.00034	9.5	<0.00010	3.5	0.092	47	<0.00020	<0.0010	<0.0010	0.0026	<0.0010	1.7
	3-Oct-24		0.015	<0.00060	<0.00020	0.018	<0.0010	0.032	0.0016	63	<0.0010	0.016	0.049	<0.060	<0.00020	0.030	13	0.57	<0.0000919	0.00029	0.012	<0.10	5.7	0.00042	8.0	<0.00010	3.9	0.11	46	<0.00020	<0.0010	<0.0010	0.0016	<0.0010	0.78

TABLE 11
DISSOLVED METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Duplicate Sample ID	Parameter[1]																																		
			Aluminum (Al) Dissolved	Antimony (Sb) Dissolved	Arsenic (As) Dissolved	Barium (Ba) Dissolved	Beryllium (Be) Dissolved	Boron (B) Dissolved	Cadmium (Cd) Dissolved	Calcium (Ca) Dissolved	Chromium (Cr) Dissolved	Cobalt (Co) Dissolved	Copper (Cu) Dissolved	Iron (Fe) Dissolved	Lead (Pb) Dissolved	Lithium (Li) Dissolved	Magnesium (Mg) Dissolved	Manganese (Mn) Dissolved	Mercury (Hg) Dissolved	Molybdenum (Mo) 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) Dissolved	Thallium (Tl) Dissolved	Tin (Sn) Dissolved	Titanium (Ti) Dissolved	Uranium (U) Dissolved	Vanadium (V) Dissolved	Zinc (Zn) Dissolved
OVERBURDEN WELLS																																					
MW-03-OB	7-Feb-22		0.0095	<0.00060	0.00078	0.14	<0.0010	0.061	<0.000020	130	<0.0010	0.0021	<0.00020	0.56	<0.00020	0.041	26	1.1	<0.0000019	0.00071	0.0025	<0.10	8.4	<0.00020	9.3	<0.00010	17	0.38	80	<0.00020	<0.0010	<0.0010	0.0021	<0.0010	0.18
	20-Sep-22		<0.0030	<0.00060	0.00080	0.14	<0.0010	0.071	<0.000020	130	<0.0010	0.0012	<0.0010	<0.060	<0.00020	0.033	25	0.92	<0.0000019	0.00093	0.0018	<0.10	9.1	<0.00020	7.9	<0.00010	15	0.38	83	<0.00020	<0.0010	<0.0010	0.0039	<0.0010	0.038
	14-Jun-23		<0.0030	<0.00060	0.00078	0.10	<0.0010	0.071	<0.000020	140	<0.0010	0.0011	0.0013	0.11	<0.00020	0.041	26	1.1	<0.0000019	0.00033	0.0012	<0.10	8.4	<0.00020	10	<0.00010	16	0.41	92	<0.00020	<0.0010	<0.0010	0.0015	<0.0010	0.23
	3-Oct-23		<0.0030	0.00071	0.0022	0.092	<0.0010	0.069	<0.000020	130	<0.0010	0.00095	<0.0010	3.3	<0.00020	0.040	25	0.98	<0.0000019	0.00050	0.0012	<0.10	7.9	<0.00020	9.0	<0.00010	14	0.39	82	<0.00020	<0.0010	<0.0010	0.0017	<0.0010	0.33
	RPD		<0.0030	0.0011	0.0021	0.093	<0.0010	0.068	<0.000020	130	<0.0010	0.00090	<0.0010	3.4	<0.00020	0.037	26	1.0	<0.0000019	0.00047	0.0011	<0.10	8.0	<0.00020	9.3	<0.00010	14	0.40	84	<0.00020	<0.0010	<0.0010	0.0016	<0.0010	0.30
			NC	43%	5%	1%	NC	1%	NC	0%	NC	5%	NC	3%	NC	8%	4%	2%	NC	6%	9%	NC	1%	NC	3%	NC	0%	3%	2%	NC	NC	NC	NC	6%	NC	10%
	12-Jun-24		<0.0030	<0.00060	0.0018	0.086	<0.0010	0.064	<0.000020	130	<0.0010	0.00058	<0.0010	3.1	<0.00020	0.040	24	0.95	<0.0000019	0.00059	0.00090	<0.10	7.6	<0.00020	8.4	<0.00010	15	0.38	82	<0.00020	<0.0010	<0.0010	0.0012	<0.0010	0.33
	3-Oct-24		0.037	<0.00060	0.0021	0.093	<0.0010	0.068	<0.000020	140	<0.0010	0.00084	0.0023	3.9	0.00021	0.037	27	1.0	<0.0000019	0.00030	0.0011	<0.10	8.4	<0.00020	9.1	<0.00010	14	0.39	87	<0.00020	<0.0010	0.0030	0.0013	<0.0010	0.37
MW-04-OB	18-Mar-22		<0.0030	<0.00060	0.00043	0.13	<0.0010	0.16	<0.000020	150	<0.0010	0.0036	<0.00030	0.0004	<0.060	<0.00020	0.036	50	0.54	<0.0000019	<0.00020	<0.00050	<0.10	5.1	<0.00020	9.1	<0.00010	27	0.70	78	<0.00020	<0.0010	<0.0010	0.0010	<0.0010	0.0036
	20-Sep-22		<0.0030	<0.00060	<0.00020	0.11	<0.0010	0.14	<0.000020	180	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	0.074	60	0.58	<0.0000019	<0.00020	<0.00050	<0.10	5.6	<0.00020	9.1	<0.00010	31	0.84	110	<0.00020	<0.0010	<0.0010	0.0016	<0.0010	<0.0030
	14-Jun-23		<0.0030	<0.00060	<0.00020	0.094	<0.0010	0.17	0.00016	140	<0.0010	<0.00030	0.0020	<0.060	<0.00020	0.047	48	0.56	<0.0000019	<0.00020	<0.00050	<0.10	4.7	<0.00020	11	<0.00010	26	0.70	75	<0.00020	<0.0010	<0.0010	0.00056	<0.0010	0.050
	3-Oct-23		1.8	<0.00060	0.00051	0.13	<0.0010	0.15	0.000034	170	0.0055	0.0016	0.0040	5.0	0.0013	0.043	58	0.59	<0.0000019	<0.00020	0.0042	0.11	5.4	<0.00020	11	<0.00010	30	0.85	100	<0.00020	<0.0010	0.16	0.0018	0.0061	0.032
	12-Jun-24		<0.0030	<0.00060	<0.00020	0.094	<0.0010	0.14	<0.000020	150	<0.0010	<0.00030	<0.0010	0.70	<0.00020	0.042	48	0.48	<0.0000019	<0.00020	<0.00050	<0.10	4.7	<0.00020	8.3	<0.00010	27	0.69	73	<0.00020	<0.0010	<0.0010	0.0010	<0.0010	<0.0030
	3-Oct-24		<0.0030	<0.00060	<0.00020	0.11	<0.0010	0.14	<0.000020	170	<0.0010	<0.00030	<0.0010	0.41	0.00062	0.043	59	0.51	<0.0000019	<0.00020	<0.00050	<0.10	5.2	<0.00020	8.7	<0.00010	31	0.82	100	<0.00020	<0.0010	<0.0010	0.0017	<0.0010	<0.0030
MW-09-OB	1-Feb-22		<0.0030	<0.00060	<0.00020	0.10	<0.0010	0.061	0.00022	150	<0.0010	0.028	<0.00020	7.1	<0.00020	0.056	35	2.6	<0.0000019	<0.00020	0.0097	<0.10	8.5	<0.00020	10	<0.00010	8.8	0.34	150	<0.00020	<0.0010	<0.0010	0.00018	<0.0010	18
	20-Sep-22		<0.0030	<0.00060	<0.00020	0.033	<0.0010	0.055	0.00021	130	<0.0010	0.039	<0.0010	7.4	<0.00020	0.058	31	2.2	<0.0000019	<0.00020	0.014	<0.10	7.1	<0.00020	8.6	<0.00010	6.5	0.24	140	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	24
	14-Jun-23		<0.0030	<0.00060	0.00059	0.017	<0.0010	0.051	0.00034	130	<0.0010	0.041	<0.0010	17	<0.00020	0.061	32	2.3	<0.0000019	<0.00020	0.015	<0.10	6.9	<0.00020	10	<0.00010	6.6	0.24	150	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	31
	3-Oct-23		0.057	<0.00060	0.0015	0.023	<0.0010	0.068	0.00039	130	<0.0010	0.035	<0.0010	14	<0.00020	0.052	30	2.1	<0.0000019	<0.00020	0.013	<0.10	6.8	<0.00020	9.4	<0.00010	7.3	0.25	130	<0.00020	<0.0010	0.0053	<0.00010	<0.0010	24
	12-Jun-24		<0.0030	<0.00060	0.0014	0.013	<0.0010	0.046	0.00044	120	<0.0010	0.038	<0.0010	14	<0.00020	0.050	28	2.0	<0.0000019	<0.00020	0.014	<0.10	6.5	<0.00020	8.4	<0.00010	6.2	0.23	120	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	24
	3-Oct-24		<0.0030	<0.00060	0.0013	0.018	<0.0010	0.058	0.00047	130	<0.0010	0.036	0.0018	15	<0.00020	0.056	31	2.1	<0.0000019	<0.00020	0.013	<0.10	7.1	<0.00020	9.3	<0.00010	6.7	0.24	130	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	19
MW-10-OB	1-Feb-22		<0.0030	<0.00060	<0.00020	0.037	<0.0010	0.069	0.0093	130	<0.0010	0.030	<0.00020	7.0	<0.00020	0.049	30	2.4	<0.0000019	0.0019	0.017	<0.10	8.8	0.0010	8.7	<0.00010	28	0.26	160	<0.00020	<0.0010	<0.0010	0.0012	<0.0010	15
		Duplicate	<0.0030	<0.00060	<0.00020	0.037	<0.0010	0.071	0.01	140	<0.0010	0.031	<0.00020	9.2	<0.00020	0.053	32	2.5	<0.0000019	0.0024	0.017	<0.10	9.4	0.0011	9.1	<0.00010	30	0.26	160	<0.00020	<0.0010	<0.0010	0.0013	<0.0010	17
		RPD	NC	NC	NC	0%	NC	3%	7%	7%	NC	3%	NC	27%	NC	8%	6%	4%	NC	23%	0%	NC	7%	10%	4%	NC	7%	0%	0%	NC	NC	NC	8%	NC	13%
	20-Sep-22		<0.0030	<0.00060	<0.00020	0.023	<0.0010	0.11	0.0021	140	<0.0010	0.028	0.0012	3.7	<0.00020	0.046	28	2.3	<0.0000019	0.00070	0.014	<0.10	7.5	<0.00020	8.3	<0.00010	24	0.33	140	<0.00020	<0.0010	<0.0010	0.0015	<0.0010	9.1
	14-Jun-23		0.0032	<0.00060	<0.00020	0.021	<0.0010	0.082	0.0031	140	<0.0010	0.037	<0.0010	13	<0.00020	0.064	28	2.5	<0.0000019	0.00046	0.017	<0.10	7.1	<0.00020	9.8	<0.00010	13	0.26	150	<0.00020	<0.0010	<0.0010	0.00072	<0.0010	16
	3-Oct-23		0.0031	<0.00060	0.00067	0.021	<0.0010	0.084	0.0016	130	<0.0010	0.037	<0.0010	20	<0.00020	0.055	27	2.3	<0.0000019	0.00075	0.017	<0.10	7.2	<0.00020	9.5	<0.00010	12	0.25	140	<0.00020	<0.0010	<0.0010	0.00073	<0.0010	18
	12-Jun-24		<0.0030	<0.00060	0.00033	0.017	<0.0010	0.057	0.0038	120	<0.0010	0.041	<0.0010	18	<0.00020	0.052	25	2.1	<0.0000019	0.00073	0.018	<0.10	6.6	<0.00020	8.1	<0.00010	9.2	0.21	120	<0.00020	<0.0010	<0.0010	0.00047	<0.0010	21
	3-Oct-24		<0.0030	<0.00060	0.00030	0.018	<0.0010	0.062	0.0023	120	<0.0010	0.041	0.0011	18	<0.00020	0.056	26	2.1	<0.0000019	0.00039	0.019	<0.10	7.1	<0.00020	9.0	<0.00010	8.5	0.21	130	<0.00020	<0.0010	<0.0010	0.00031	<0.0010	18
MW-11-OB	20-Sep-22		<0.0030	<0.00060	0.0010	0.089	<0.0010	0.062	<0.000020	170	<0.0010	0.0032	<0.0010	<0.060	<0.00020	0.076	39	1.9	<0.0000019	0.00027	0.0018	<0.10	6.1	<0.00020	9.3	<0.00010	10	0.56	130	<0.00020	<0.0010	<0.0010	0.00024	<0.0010	0.47
	14-Jun-23		0.015	<0.00060	0.0009	0.062	<0.0010	0.059	<0.000020	170	<0.0010	0.0046	0.0023	0.51	<0.00020	0.047	40	1.9	<0.0000019	0.00026	0.0021	<0.10	6.5	<0.00020	9.6	<0.00010	10	0.55	130	<0.00020	<0.0010	<0.0010	0.00032	<0.0010	1.3
	3-Oct-23		0.047	<0.00060	0.0025	0.082	<0.0010	0.063	<0.000020	160	<0.0010	0.0044	<0.0010	4.0	<0.00020	0.045	36	1.8	<0.0000019	0.00030	0.0021	<0.10	5.8	<0.00020	9.3	<0.00010	9.7	0.57	130	<0.00020	<0.0010	0.0033	0.00017	<0.0010	1.3
	12-Jun-24		<0.0030	<0.00060	0.0013	0.066	<0.0010	0.056	<0.000020	150	<0.0010	0.0030	0.0010	1.2	<0.00020	0.040	34	1.6	<0.0000019	0.0013	0.0013	<0.10	5.4	<0.00020	8.5	<0.00010	9.3	0.53	120	<0.00020	0.0011	<0.0010	0.00019	<0.0010	0.75
	3-Oct-24		<0.0030	<0.00060	0.0012	0.079	<0.0010	0.061	0.000029	160	<0.0010	0.0040	0.0019	1.8	<0.00020	0.048	38	1.8	<0.0000019	0.00026	0.0015	<0.10	6.0	<0.00020	9.1	<0.00010	9.5	0.55	130	<0.00020	<0.0010	<0.0010	0.00018	<0.0010	1.2
QA/QC																																					
FIELD BLANK	20-Sep-22		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	14-Jun-23		<0.060	<0.012	<0.0040	<0.010	<0.020	<0.020	<0.00040	<0.30	<0.020	<0.0060	<0.020	<0.060	<0.0040	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.0010	<0.10	<0.30	<0.0040	<0.50	<0.0020	<0.50	<0.020	<0.20	<0.0040	<020	<0.020	<0.0020	0.020	<0.060
	3-Oct-23		<0.0030	0.00079	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	0.0019	<0.0010	<0.00010	<0.0010	<0.0030
	12-Jun-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	0.00025	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	0.0019	<0.0010	<0.00010	<0.0010	<0.0030
TRIP BLANK	20-Sep-22		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	-	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	14-Jun-23		<0.060	<0.012	<0.0040	<0.010	<0.020	<0.020	<0.00040	<0.30	<0.020	<0.0060	<0.020	<0.060	<0.0040	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.0010	<0.10	<0.30	<0.0040	<0.50	<0.0020	<0.50	<0.020	<0.20	<0.0040	<020	<0.020	<0.0020	0.023	<0.060
	3-Oct-23		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	12-Jun-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	3-Oct-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
Laboratory Detection Limits			*0.0030*	*0.00060*	*0.00020*	*0.010*	*0.0010*	*0.020*	*0.000020*	*0.30*	*0.0010*	*0.00030*	*0.0010*	*0.060*	*0.00020*	*0.020*	*0.20*	*0.0040*	*0.0000019*	*0.00020*	*0.00050*	*0.10*	*0.30*	*0.00020*	*0.10*	*0.00010*	*0.50*	*0.020*	*0.20*	*0.00020*	*0.0010*	*0.0010*	*0.00010*	*0.0010*	*0.0030*
Manitoba Water Quality Standards, Objectives, and Guidelines [2]																																					
Protection of Cool Water Aquatic Life																																					
Tier II Objective (acute)			-	-	-	-	-	-	*0.00120 - 0.0077* [2a]	-	*0.56 - 1.8* [2a]	-	*0.013 - 0.050* [2a]	-	*0.063 - 0.28* [2a]	-	-	-	-	-	*0.46 - 1.5* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.12 - 0.38* [2a]
Tier II Objective (chronic)			-	-	-	-	-	-	*0.00024 - 0.00664* [2a]	-	*0.073 - 0.23* [2a]	-	*0.0088 - 0.029* [2a]	-	*0.0025 - 0.011* [2a]	-	-	-	-	-	*0.051 - 0.17* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	-	*0.12 - 0.38* [2a]

Notes:
"-" = No Data
EQL = Estimated Quantitation Limit = Lowest level of the parameter that can be quantified with confidence
NC = Not Calculated
RPD = Relative Percent Difference

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship. 2011.
   a. Guideline values are dependent on hardness value of specific samples. Equations used to calculate guideline value are provided in Manitoba Water Quality Standards, Objectives, and Guidelines, 2011. Values for Dissolved Metals calculated using both factors in equations presented in guideline document. Calculated using sample specific total harness as CaCO3 as measured on September 20, 2022.

- Values above Tier II Chronic MWQSOG value.
- Values above Tier II Acute MWQSOG value.

TABLE 12
TOTAL METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Duplicate Sample ID	Parameter [1]																																		
			Total Aluminum (Al)	Total Antimony (Sb)	Total Arsenic (As)	Total Barium (Ba)	Total Beryllium (Be)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)	Total Mercury (Hg)	Total Molybdenum (Mb)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (Tl)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
BEDROCK WELLS																																					
MW-01-BR	1-Feb-22		0.83	<0.00060	0.00090	0.13	<0.0010	0.10	0.000064	150	0.0014	0.0070	0.0095	2.5	0.00088	0.035	74	0.17	0.0000072	0.0068	0.0062	<0.10	17	0.0031	9	<0.00010	28	0.91	160	<0.00020	0.0014	0.059	0.029	0.0030	0.020
	20-Sep-22		0.99	<0.00060	0.0015	0.12	<0.0010	0.18	0.000051	280	0.0028	0.019	0.0082	3.1	0.0017	0.040	160	1.9	0.0000056	0.012	0.017	<0.10	21	0.0067	7.3	<0.00010	41	1.4	290	<0.00020	<0.0010	0.066	0.053	0.0043	0.014
	14-Jun-23		2.4	<0.00060	0.0018	0.11	<0.0010	0.18	0.00015	270	0.0050	0.010	0.018	6.7	0.0036	0.038	160	0.88	0.0000091	0.0034	0.0070	0.14	20	0.0037	14	<0.00010	40	1.7	320	<0.00020	0.0020	0.1500	0.082	0.0080	0.028
	3-Oct-23		4.3	<0.00060	0.0030	0.12	<0.0010	0.21	0.00014	310	0.0069	0.012	0.021	9.8	0.0058	0.059	190	1.0	0.0000071	0.0030	0.0078	0.22	21	0.0022	13	<0.00010	47	2.2	350	<0.00020	0.0023	0.31	0.15	0.015	0.032
	12-Jun-24		1.6	<0.00060	0.0027	0.085	<0.0010	0.20	0.000082	260	0.0025	0.0084	0.010	6.3	0.0017	0.036	150	1.2	<0.0000019	0.0032	0.0046	<0.10	19	0.0033	11	<0.00010	42	1.9	300	<0.00020	0.0012	0.098	0.076	0.0055	0.012
	3-Oct-24		1.8	<0.00060	0.00096	0.087	<0.0010	0.19	0.00010	270	0.0032	0.0070	0.018	2.7	0.0021	0.040	140	0.27	0.0000058	0.0019	0.0052	<0.10	21	0.0060	7.7	<0.00010	38	1.7	280	<0.00020	0.0011	0.14	0.14	0.0073	0.016
MW-02-BR	1-Feb-22		0.57	<0.00060	0.00046	0.065	<0.0010	0.50	<0.000020	31	<0.0010	0.011	0.0084	0.73	<0.00020	0.068	16	0.073	0.0000034	0.0013	0.0022	<0.10	7.6	<0.00020	8.7	<0.00010	95	0.37	41	<0.00020	<0.0010	0.028	0.0066	0.0020	0.028
	20-Sep-22		0.15	<0.00060	0.00073	0.052	<0.0010	0.53	<0.000020	32	<0.0010	0.0025	0.0019	0.25	<0.00020	0.085	17	0.073	<0.0000019	0.00075	<0.00050	<0.10	6.6	<0.00020	6.8	<0.00010	110	0.41	46	<0.00020	<0.0010	0.0056	0.0062	<0.0010	<0.0030
	14-Jun-23		0.63	<0.00060	0.00082	0.042	<0.0010	0.44	0.000035	24	<0.0010	0.0040	0.0064	0.62	0.00020	0.061	13	0.064	0.0000032	0.00077	0.00065	<0.10	5.8	<0.00020	7.7	<0.00010	87	0.32	33	0.00060	<0.0010	0.0230	0.006	0.001	0.0030
	3-Oct-23		0.47	<0.00060	0.00074	0.046	<0.0010	0.48	<0.000020	27	<0.0010	0.0031	0.0046	0.46	<0.00020	0.083	15	0.066	<0.0000019	0.00076	0.00059	<0.10	6.1	<0.00020	7.3	<0.00010	99	0.35	39	<0.00020	<0.0010	0.017	0.0064	<0.0010	0.0039
	12-Jun-24		43	<0.00060	0.0028	0.22	<0.0010	0.51	0.00014	73	0.011	0.32	0.44	37	0.0048	0.11	28	0.91	0.000026	0.0022	0.034	0.85	17	<0.00020	63	<0.00010	95	0.39	32	<0.00020	0.025	1.7	0.0068	0.059	0.12
	3-Oct-24		35	<0.00060	0.0025	0.16	<0.0010	0.52	0.000095	69	0.0076	0.28	0.38	27	0.0042	0.099	24	0.67	<0.0000019	0.0015	0.030	0.79	14	<0.00020	50	<0.00010	100	0.37	32	<0.00020	0.020	1.4	0.0058	0.048	0.11
MW-04-BR	7-Feb-22		2.0	<0.00060	0.0016	0.048	<0.0010	0.42	0.000021	36	0.0037	0.0027	0.0042	2.0	0.0014	0.11	22	0.089	<0.0000019	0.0036	0.0028	0.11	8.1	0.00027	8.4	<0.00010	120	0.61	80	<0.00020	<0.0010	0.088	0.0059	0.004	0.0068
	20-Sep-22		1.4	<0.00060	0.0027	0.049	<0.0010	0.49	0.000021	37	0.0037	0.0015	0.0066	1.5	0.0013	0.14	24	0.12	0.0000024	0.0059	0.0027	<0.10	9.2	0.00025	8.2	<0.00010	150	0.62	77	<0.00020	<0.0010	0.087	0.0089	0.0044	0.0058
	14-Jun-23		0.63	<0.00060	0.00082	0.042	<0.0010	0.44	0.000035	24	<0.0010	0.0040	0.0064	0.62	0.00020	0.061	13	0.064	0.0000032	0.00077	0.00065	<0.10	5.8	<0.00020	7.7	<0.00010	87	0.32	33	0.0006	<0.0010	0.0230	0.0060	0.001	0.0030
	3-Oct-23		0.47	<0.00060	0.00074	0.046	<0.0010	0.48	<0.000020	27	<0.0010	0.0031	0.0046	0.46	<0.00020	0.083	15	0.066	<0.0000019	0.00076	0.00059	<0.10	6.1	<0.00020	7.3	<0.00010	99	0.35	39	<0.00020	<0.0010	0.017	0.0064	<0.0010	0.0039
	12-Jun-24		0.94	<0.00060	0.0016	0.051	<0.0010	0.43	<0.000020	41	<0.0010	0.00052	0.0056	0.38	0.00054	0.11	27	0.11	0.0000054	0.00099	0.0026	<0.10	9.3	<0.00020	7.8	<0.00010	130	0.77	82	<0.00020	<0.0010	0.014	0.0055	<0.0010	<0.0030
	3-Oct-24		0.76	<0.00060	0.0023	0.049	<0.0010	0.46	0.000024	39	<0.0010	0.00053	0.0027	0.53	0.0022	0.11	25	0.098	<0.0000019	0.0016	0.0014	<0.10	8.8	<0.00020	7.9	<0.00010	140	0.68	81	<0.00020	<0.0010	0.020	0.0066	<0.0010	0.0066
MW-05-BR	7-Feb-22		2.3	<0.00060	0.00042	0.041	<0.0010	<0.020	0.000045	39	0.0039	0.21	0.017	2.5	0.00052	<0.020	6.5	0.54	<0.0000019	0.0018	0.017	<0.10	9.8	0.00050	7.5	<0.00010	9.3	0.077	17	<0.00020	0.0019	0.098	0.0029	0.0028	0.012
	20-Sep-22		0.34	<0.00060	<0.00020	0.014	<0.0010	<0.020	0.000074	14	<0.0010	0.0087	0.015	0.094	<0.00020	<0.020	3.1	0.13	<0.0000019	<0.00020	0.0031	<0.10	2.9	0.00032	5.9	<0.00010	1.5	<0.020	11	<0.00020	<0.0010	0.0030	0.00075	<0.0010	0.027
	14-Jun-23		2.3	<0.00060	0.00053	0.028	<0.0010	<0.020	0.00016	30	0.0011	0.011	0.013	2.4	0.0018	<0.020	5	0.37	0.0000029	<0.00020	0.0033	<0.10	4.1	0.00049	10	<0.00010	1.7	0.034	14	<0.00020	0.0011	0.0850	0.0027	0.0026	0.060
	3-Oct-23		2.9	<0.00060	0.00052	0.046	<0.0010	<0.020	0.000087	42	0.0021	0.014	0.019	3.1	0.0013	<0.020	7.4	0.33	0.0000025	0.00021	0.0033	<0.10	5.0	<0.00020	10	<0.00010	2.2	0.036	14	<0.00020	0.0016	0.14	0.0021	0.0033	0.029
	12-Jun-24		0.028	<0.00060	<0.00020	0.018	<0.0010	0.023	0.000069	36	<0.0010	0.0032	0.0026	<0.060	<0.00020	<0.020	4.6	0.32	<0.0000019	0.00023	0.0014	<0.10	3.4	<0.00020	5.3	<0.00010	1.5	0.027	14	<0.00020	<0.0010	<0.0010	0.0016	<0.0010	0.025
		MW-100	1.7	<0.00060	0.00024	0.028	<0.0010	<0.020	0.000082	36	<0.0010	0.0067	0.011	1.8	0.00076	<0.020	5.0	0.36	0.0000023	<0.00020	0.0021	<0.10	3.7	0.00020	8.0	<0.00010	1.7	0.034	14	<0.00020	<0.0010	0.067	0.0021	0.0019	0.031
	RPD		*194%*	*NC*	*NC*	*43%*	*NC*	*NC*	*17%*	*0%*	*NC*	*71%*	*124%*	*NC*	*NC*	*NC*	*8%*	*12%*	*NC*	*NC*	*40%*	*NC*	*8%*	*NC*	*41%*	*NC*	*13%*	*23%*	*0%*	*NC*	*NC*	*NC*	*27%*	*NC*	*21%*
	3-Oct-24		1.1	<0.00060	0.00030	0.030	<0.0010	0.022	0.000048	53	<0.0010	0.0055	0.0090	1.3	0.00064	<0.020	6.3	0.22	<0.0000019	0.00021	0.0017	<0.10	4.1	<0.00020	7.4	<0.00010	2.2	0.058	11	<0.00020	<0.0010	0.066	0.0027	0.0015	0.017
MW-06-BR	7-Feb-22		0.34	0.0011	0.00036	0.030	<0.0010	0.024	0.04	56	<0.0010	0.024	0.065	1.9	0.0016	<0.020	11	1.0	<0.0000019	0.00046	0.056	<0.10	7.5	0.00021	7.3	<0.00010	5.0	0.11	56	<0.00020	<0.0010	0.0090	0.0014	<0.0010	8.9
	20-Sep-22		0.13	<0.00060	<0.00020	0.022	<0.0010	0.034	0.10	86	<0.0010	0.041	0.34	6.1	0.0068	0.044	19	1.7	<0.0000019	<0.00020	0.017	<0.10	8.4	0.00032	8	<0.00010	4.5	0.13	110	<0.00020	<0.0010	0.0030	0.0019	<0.0010	27
	14-Jun-23		0.075	<0.00060	0.00021	0.022	<0.0010	0.037	0.13	86	<0.0010	0.049	0.49	5.9	0.0072	0.030	20	1.7	<0.0000019	<0.00020	0.017	<0.10	7.6	<0.00020	7.8	<0.00010	4.3	0.15	110	0.00049	<0.0010	<0.0010	0.0026	<0.0010	33
		MW-100	0.079	<0.00060	0.00032	0.023	<0.0010	0.041	0.13	88	<0.0010	0.048	0.48	6.1	0.0074	0.030	20	1.8	<0.0000019	<0.00020	0.018	<0.10	7.8	0.00023	8.1	<0.00010	4.4	0.15	110	0.00072	<0.0010	0.0011	0.0026	<0.0010	33
	RPD		*5%*	*NC*	*42%*	*4%*	*NC*	*10%*	*0%*	*2%*	*NC*	*2%*	*2%*	*3%*	*3%*	*0%*	*0%*	*6%*	*NC*	*NC*	*6%*	*NC*	*3%*	*NC*	*4%*	*NC*	*2%*	*0%*	*0%*	*NC*	*NC*	*NC*	*0%*	*NC*	*0%*
	3-Oct-23		0.12	<0.00060	0.00021	0.021	<0.0010	0.040	0.13	77	<0.0010	0.056	0.68	4.8	0.011	0.040	18	1.5	<0.0000019	<0.00020	0.020	<0.10	7.6	<0.00020	7.8	<0.00010	4.5	0.14	95	0.00027	<0.0010	0.0011	0.0028	<0.0010	26
	12-Jun-24		0.11	<0.00060	0.00022	0.025	<0.0010	0.035	0.13	89	<0.0010	0.052	0.63	5.9	0.010	0.044	20	1.8	<0.0000019	0.00021	0.019	<0.10	7.6	<0.00020	8.0	<0.00010	4.8	0.17	110	<0.00020	0.0011	0.0012	0.0026	<0.0010	30
	3-Oct-24		0.11	<0.00060	0.00022	0.022	<0.0010	0.046	0.12	78	<0.0010	0.052	0.75	4.6	0.013	0.036	18	1.4	<0.0000019	<0.00020	0.019	<0.10	7.8	<0.00020	7.9	<0.00010	4.4	0.14	96	0.00023	<0.0010	<0.0010	0.0024	<0.0010	28
MW-07-BR	7-Feb-22		0.46	0.0012	0.00042	0.051	<0.0010	<0.020	0.018	66	0.0014	0.015	0.77	0.51	0.00044	<0.020	11	0.42	0.0000161	0.0049	0.036	<0.10	11	0.0010	9.7	<0.00010	12	0.13	66	<0.00020	0.0012	0.014	0.0032	<0.0010	4.6
	20-Sep-22		3.4	<0.00060	<0.00020	0.028	<0.0010	<0.020	0.064	66	<0.0010	0.031	5.6	0.094	0.00046	0.023	14	0.58	0.0000025	<0.00020	0.018	<0.10	10	0.0014	11	<0.00010	2.7	0.071	89	<0.00020	<0.0010	0.0018	0.0030	<0.0010	17
		MW-100	3.6	<0.00060	<0.00020	0.027	<0.0010	<0.020	0.065	63	<0.0010	0.030	5.5	0.16	0.00048	0.022	13	0.55	0.0000030	<0.00020	0.018	<0.10	10	0.0011	11	<0.00010	2.6	0.068	86	<0.00020	<0.0010	0.0033	0.0031	<0.0010	17
	RPD		*6%*	*NC*	*NC*	*4%*	*NC*	*NC*	*2%*	*5%*	*NC*	*3%*	*2%*	*52%*	*4%*	*4%*	*7%*	*5%*	*18%*	*NC*	*0%*	*NC*	*0%*	*24%*	*0%*	*NC*	*4%*	*4%*	*3%*	*NC*	*NC*	*59%*	*3%*	*NC*	*0%*
	14-Jun-23		5.8	<0.00060	0.00021	0.019	<0.0010	<0.020	0.068	52	<0.0010	0.039	6.7	0.19	0.00071	<0.020	12	0.56	0.0000028	<0.00020	0.021	0.10	6.5	0.00095	12	0.00011	2.4	0.072	76	0.00024	<0.0010	0.0024	0.0041	<0.0010	16
	3-Oct-23		3.7	<0.00060	0.00023	0.020	<0.0010	0.023	0.077	110	<0.0010	0.030	5.5	<0.060	0.00080	<0.020	19	0.54	<0.0000019	<0.00020	0.020	0.11	11	0.0013	12	<0.00010	3.6	0.11	130	<0.00020	<0.0010	<0.0010	0.0059	<0.0010	19
	12-Jun-24		5.1	<0.00060	0.00021	0.020	<0.0010	<0.020	0.071	53	<0.0010	0.043	6.1	0.069	0.00051	<0.020	12	0.58	<0.0000019	0.00025	0.022	0.13	6.3	0.0012	11	<0.00010	2.6	0.079	76	<0.00020	<0.0010	<0.0010	0.0042	<0.0010	16
	03-Oct-24		4.6	<0.00060	0.00030	0.023	<0.0010	<0.020	0.063	100	<0.0010	0.021	3.5	0.36	0.0011	0.021	17	0.34	0.0000054	<0.00020	0.019	<0.10	12	0.0014	12	0.00038	3.5	0.11	110	<0.00020	<0.0010	0.0090	0.0065	<0.0010	14
		MW-101	5.0	<0.00060	0.00048	0.026	<0.0010	0.021	0.068	98	<0.0010	0.027	4.5	0.54	0.0015	<0.020	17	0.42	0.0000061	0.00022	0.023	<0.10	11	0.0013	12	0.00039	3.4	0.11	110	<0.00020	0.0013	0.016	0.0080	<0.0010	14
	RPD		*8%*	*NC*	*46%*	*12%*	*NC*	*NC*	*8%*	*2%*	*NC*	*25%*	*25%*	*40%*	*31%*	*NC*	*0%*	*21%*	*12%*	*NC*	*19%*	*NC*	*9%*	*7%*	*0%*	*3%*	*3%*	*0%*	*0%*	*NC*	*NC*	*56%*	*21%*	*NC*	*0%*
MW-08-BR	1-Feb-22		8.7	<0.00060	0.0019	0.034	<0.0010	0.028	0.000087	9.6	0.0078	0.034	0.079	5.9	0.0053	<0.020	3.6	0.082	0.0000063	0.014	0.027	0.17	4.4	0.00050	26	<0.00010	29	0.055	3.3	<0.00020	0.0052	0.18	0.0071	0.0066	0.023
	14-Jun-23		2.2	<0.00060	0.00038	0.027	<0.0010	0.026	0.0028	55	0.0014	0.055	0.24	1.2	0.0013	0.029	12	0.39	<0.0000019	0.00055	0.030	<0.10	5.7	0.00047	14	<0.00010	3.8	0.11	52	0.00024	0.0018	0.034	0.0037	0.0013	1.7
	3-Oct-23		4.3	<0.00060	0.00079	0.039	<0.0010	0.035	0.0029	67	0.0023	0.064	0.42	2.0	0.0024	0.049	16	0.42	0.0000028	0.00052	0.032	<0.10	6.6	0.00037	14	<0.00010	4.6	0.14	57	<0.00020	0.0017	0.057	0.011	0.0023	1.7
	12-Jun-24		3.5	<0.00060	0.00081	0.026	<0.0010	0.025	0.0038	44	0.0027	0.043	0.65	2.2	0.0026	0.035	11	0.41	<0.0000019	0.00070	0.025	<0.10	5.0	0.00048	12	<0.00010	3.3	0.095	49	<0.00020	0.0031	0.065	0.0051	0.0026	2.2
	3-Oct-24		3.5	<0.00060	0.00049	0.025	<0.0010	0.036	0.0023	62	0.0017	0.028	0.20	1.1	0.0016	0.030	13	0.42	<0.0000019	0.00059	0.020	<0.10	5.5	0.00042	11	<0.00010	4.1	0.13	47	<0.00020	0.0021	0.038	0.0066	0.0016	1.1

TABLE 12
TOTAL METALS IN WATER
SHERRIDON MINE SITE, MANITOBA

Sample ID	Date	Duplicate Sample ID	Parameter [1]																																		
			Total Aluminium (Al)	Total Antimony (Sb)	Total Arsenic (Ar)	Total Barium (Ba)	Total Beryllium (Be)	Total Boron (B)	Total Cadmium (Cd)	Total Calcium (Ca)	Total Chromium (Cr)	Total Cobalt (Co)	Total Copper (Cu)	Total Iron (Fe)	Total Lead (Pb)	Total Lithium (Li)	Total Magnesium (Mg)	Total Manganese (Mn)	Total Mercury (Hg)	Total Molybdenum (Mb)	Total Nickel (Ni)	Total Phosphorus (P)	Total Potassium (K)	Total Selenium (Se)	Total Silicon (Si)	Total Silver (Ag)	Total Sodium (Na)	Total Strontium (Sr)	Total Sulphur (S)	Total Thallium (Tl)	Total Tin (Sn)	Total Titanium (Ti)	Total Uranium (U)	Total Vanadium (V)	Total Zinc (Zn)
OVERBURDEN WELLS																																					
MW-03-OB	7-Feb-22		36	0.0019	0.0091	0.54	0.0019	0.075	0.00050	140	0.15	0.041	0.11	75	0.023	0.11	52	2.2	0.0000229	0.0017	0.10	1.7	23	0.00041	72	0.00021	18	0.42	80	0.00074	0.0033	4.0	0.0091	0.16	2.6
	20-Sep-22		20	<0.00060	0.0048	0.28	0.0010	0.086	0.00017	140	0.044	0.012	0.033	25	0.0084	0.066	34	1.3	0.0000048	0.00073	0.031	0.39	15	0.00023	36	<0.00010	17	0.41	76	<0.00020	0.0023	1.2	0.0040	0.047	1.6
	14-Jun-23		100	<0.0012	0.027	1.1	<0.010	<0.020	0.0020	190	0.28	0.074	0.28	170	0.056	<0.20	97	3.1	0.0000060	0.0024	0.19	3.3	46	0.0013	120	0.00051	19	0.58	96	0.0016	0.0086	6.2	0.0150	0.28	28
	3-Oct-23		40	<0.0012	0.012	0.49	0.0021	0.28	0.00055	160	0.12	0.030	0.089	65	0.023	0.12	53	1.9	0.000029	0.0013	0.080	1.2	24	0.00048	67	0.00022	19	0.48	90	0.00046	0.0036	2.8	0.0077	0.12	7.0
			47	0.00082	0.013	0.57	0.0023	<0.20	0.00057	160	0.12	0.031	0.092	76	0.024	<0.20	60	2.0	0.000025	0.0015	0.082	1.2	28	0.00049	83	0.00024	19	0.48	91	0.00048	0.0040	3.1	0.0081	0.13	7.0
	RPD		*16%*	*NC*	*8%*	*15%*	*9%*	*NC*	*4%*	*0%*	*0%*	*3%*	*3%*	*16%*	*4%*	*NC*	*12%*	*5%*	*15%*	*14%*	*2%*	*0%*	*15%*	*2%*	*21%*	*9%*	*0%*	*0%*	*1%*	*4%*	*11%*	*10%*	*5%*	*8%*	*0%*
	12-Jun-24		0.11	<0.00060	0.0023	0.096	<0.0010	0.070	<0.000020	130	<0.0010	0.00088	<0.0010	3.7	<0.00020	0.029	24	1.1	<0.0000019	0.00068	0.0013	<0.10	7.6	<0.00020	9.3	<0.00010	15	0.41	85	<0.00020	<0.0010	0.022	0.0015	<0.0010	0.40
	3-Oct-24		2.8	<0.00060	0.0028	0.11	<0.0010	0.070	0.000026	130	0.0069	0.0024	0.0050	6.9	0.0015	0.033	26	1.0	<0.0000019	0.00035	0.0055	<0.10	9.0	<0.00020	13	<0.00010	15	0.40	83	<0.00020	<0.0010	0.23	0.0017	0.0078	0.69
MW-04-OB	18-Mar-22		7.2	<0.00060	0.0014	0.24	<0.0010	0.16	0.00010	150	0.020	0.0047	0.012	12	0.0040	0.053	55	0.69	0.0000038	<0.00020	0.013	0.27	8.7	<0.00020	37	<0.00010	28	0.74	80	<0.00020	<0.0010	0.60	0.0015	0.021	0.12
	20-Sep-22		2.7	<0.00060	0.00047	0.13	<0.0010	0.14	0.000050	180	0.0055	0.0013	0.0044	3.6	0.0014	0.045	57	0.62	0.0000027	<0.00020	0.0039	0.41	5.9	<0.00020	13	<0.00010	31	0.82	99	<0.00020	0.0015	0.15	0.0021	0.0061	0.013
	14-Jun-23		12	<0.00060	0.0019	0.20	<0.0010	0.16	0.00019	150	0.031	0.0071	0.04	18	0.0051	<0.10	57	0.77	0.0000080	<0.00020	0.020	<0.50	8.9	0.00024	31	<0.00010	27	0.74	76	<0.00020	0.0012	0.94	0.0017	0.034	0.096
	3-Oct-23		0.0049	<0.00060	0.00021	0.15	<0.0010	0.15	<0.000020	180	<0.0010	<0.00030	<0.0010	0.56	<0.00020	0.050	63	0.58	<0.0000019	<0.00020	<0.00050	<0.10	5.6	<0.00020	9.5	<0.00010	32	0.83	110	<0.00020	<0.0010	<0.0010	0.0014	<0.0010	<0.0030
	12-Jun-24		110	0.00068	0.021	1.1	0.0051	0.19	0.0015	210	0.30	0.075	0.25	170	0.052	0.24	120	3.2	0.000084	0.0023	0.20	5.4	40	0.0013	130	0.00069	30	0.93	81	0.0014	0.0068	8.0	0.013	0.33	0.76
	3-Oct-24		2.3	<0.00060	0.00046	0.12	<0.0010	0.14	<0.000020	170	0.0059	0.0012	0.0036	2.7	0.0012	0.037	56	0.51	<0.0000019	<0.00020	0.0035	<0.10	5.7	<0.00020	12	<0.00010	31	0.82	96	<0.00020	<0.0010	0.19	0.0020	0.0066	0.011
MW-09-OB	1-Feb-22		0.8	<0.00060	0.0018	0.099	<0.0010	0.059	0.00029	130	0.0024	0.032	0.0013	14	0.00029	0.054	31	2.2	<0.0000019	0.00022	0.012	<0.10	6.8	<0.00020	12	<0.00010	7.6	0.27	130	<0.00020	<0.0010	0.053	0.00027	0.0018	18
	20-Sep-22		1.7	<0.00060	0.0015	0.040	<0.0010	0.046	0.00037	130	0.0036	0.041	0.0027	20	0.00065	0.065	32	2.3	<0.0000019	<0.00020	0.016	<0.10	7.7	<0.00020	12	<0.00010	6.8	0.22	150	<0.00020	<0.0010	0.11	0.00015	0.0030	26
	14-Jun-23		2.9	<0.00060	0.0016	<0.050	<0.0010	0.11	0.00093	130	0.0065	0.047	0.0044	22	0.0012	<0.10	33	2.3	<0.0000019	<0.00020	0.020	<0.50	7.9	<0.00020	13	<0.00010	7.5	0.26	150	0.00056	<0.0010	0.20	0.00026	0.0064	30
	3-Oct-23		1.7	<0.00060	0.0017	0.035	<0.0010	0.058	0.00058	140	0.0035	0.040	0.0024	18	0.00062	0.069	35	2.3	<0.0000019	0.00027	0.016	<0.10	7.9	<0.00020	14	<0.00010	7.9	0.23	140	<0.00020	<0.0010	0.10	0.00014	0.0035	22
	12-Jun-24		2.6	<0.00060	0.0018	0.029	<0.0010	0.048	0.00074	120	0.0049	0.051	0.0032	18	0.0011	0.049	28	2.3	<0.0000019	0.0058	0.021	<0.10	7.0	<0.00020	13	<0.00010	6.4	0.25	130	<0.00020	0.0012	0.16	0.00027	0.0054	24
	3-Oct-24		0.11	<0.00060	0.0015	0.015	<0.0010	0.055	0.00050	120	<0.0010	0.041	<0.0010	14	<0.00020	0.050	29	2.0	<0.0000019	<0.00020	0.015	<0.10	6.8	<0.00020	9.4	<0.00010	6.5	0.23	120	<0.00020	<0.0010	0.0078	<0.00010	<0.0010	23
MW-10-OB	1-Feb-22		4.1	<0.00060	0.0012	0.089	<0.0010	0.072	0.026	120	0.010	0.037	0.11	26	0.0021	0.052	30	2.2	0.0000185	0.0029	0.026	0.19	9.4	0.00097	23	<0.00010	26	0.23	140	<0.00020	<0.0010	0.31	0.0031	0.011	18
		Duplicate	4.5	<0.00060	0.0010	0.097	<0.0010	0.073	0.028	130	0.012	0.038	0.11	27	0.0024	0.058	31	2.3	0.0000178	0.0030	0.027	0.21	10	0.00094	26	<0.00010	26	0.23	140	<0.00020	<0.0010	0.34	0.0032	0.013	19
	RPD		*9%*	*NC*	*18%*	*9%*	*NC*	*1%*	*7%*	*8%*	*18%*	*3%*	*0%*	*4%*	*13%*	*11%*	*3%*	*4%*	*4%*	*3%*	*4%*	*10%*	*6%*	*3%*	*12%*	*NC*	*0%*	*0%*	*0%*	*NC*	*NC*	*9%*	*3%*	*17%*	*5%*
	20-Sep-22		1.8	<0.00060	0.00083	0.035	<0.0010	0.097	0.0038	140	0.0041	0.028	0.020	22	0.00095	0.056	30	2.5	<0.0000019	0.0012	0.016	<0.10	8.4	<0.00020	12	<0.00010	25	0.3	150	<0.00020	<0.0010	0.11	0.0020	0.0035	10
	14-Jun-23		3.4	<0.00060	0.00066	0.049	<0.0010	0.080	0.013	120	0.0069	0.040	0.043	22	0.0013	0.046	27	2.3	<0.0000019	0.00062	0.021	<0.10	7.9	<0.00020	17	<0.00010	12	0.24	130	<0.00020	0.0014	0.21	0.0016	0.0076	18
	3-Oct-23		1.1	<0.00060	0.00087	0.029	<0.0010	0.084	0.0042	120	0.0026	0.047	0.0066	22	0.00038	0.053	26	2.4	<0.0000019	0.00081	0.023	<0.10	7.5	<0.00020	12	<0.00010	12	0.24	140	<0.00020	<0.0010	0.071	0.00099	0.0027	17
	12-Jun-24		0.29	<0.00060	0.00048	0.021	<0.0010	0.058	0.0057	120	<0.0010	0.051	0.0037	20	<0.00020	0.053	25	2.3	<0.0000019	0.00084	0.024	<0.10	6.7	<0.00020	9.5	<0.00010	9.4	0.23	130	<0.00020	<0.0010	0.026	0.00061	0.0010	20
	3-Oct-24		0.32	<0.00060	0.00043	0.021	<0.0010	0.063	0.0032	110	<0.0010	0.043	0.0026	17	0.00078	0.048	24	2.0	<0.0000019	0.00042	0.019	<0.10	6.9	<0.00020	9.7	<0.00010	8.3	0.2	120	<0.00020	<0.0010	0.025	0.00039	<0.0010	22
MW-11-OB	20-Sep-22		2.9	<0.00060	0.0037	0.1	<0.0010	0.056	0.000070	180	0.0059	0.0048	0.0060	6.6	0.0012	0.054	42	1.9	<0.0000019	0.00029	0.0064	0.13	7.1	<0.00020	14	<0.00010	11	0.53	140	<0.00020	<0.0010	0.23	0.00047	0.0073	0.56
	14-Jun-23		0.58	<0.00060	0.0022	0.07	<0.0010	0.060	0.000038	160	0.0015	0.0050	<0.0010	4.2	0.00028	0.040	36	1.9	<0.0000019	0.00031	0.0030	<0.10	6.0	<0.00020	11	<0.00010	9.0	0.52	130	0.00033	0.0011	0.042	0.00023	0.0014	1.4
	3-Oct-23		1.0	<0.00060	0.0030	0.091	<0.0010	0.063	0.000053	170	0.0026	0.0052	0.0032	5.0	0.00047	0.046	38	1.9	<0.0000019	0.00037	0.0037	<0.10	6.5	<0.00020	13	<0.00010	10	0.57	130	<0.00020	<0.0010	0.080	0.00026	0.0025	1.4
	12-Jun-24		0.63	<0.00060	0.0026	0.077	<0.0010	0.061	0.000025	150	0.0016	0.0040	0.0016	2.5	0.00028	0.035	34	1.9	<0.0000019	0.0023	0.0025	<0.10	5.5	<0.00020	10	<0.00010	9.3	0.57	130	<0.00020	0.0012	0.053	0.00029	0.0018	0.97
	3-Oct-24		0.86	<0.00060	0.0030	0.086	<0.0010	0.051	0.000057	160	0.0027	0.0070	0.0022	3.1	0.00054	0.040	36	1.8	<0.0000019	0.00048	0.0045	<0.10	5.9	<0.00020	11	<0.00010	9.5	0.52	130	<0.00020	<0.0010	0.078	0.00034	0.0027	1.8
QA/QC																																					
FIELD BLANK	20-Sep-22		0.0060	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	0.29	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	14-Jun-23		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	0.000030	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	0.0032
	3-Oct-23		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	12-Jun-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	0.40	<0.0010	<0.00030	0.0013	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
TRIP BLANK	20-Sep-22		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	0.27	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	14-Jun-23		0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	0.000037	<0.30	<0.0010	<0.00030	<0.0010	<0.060	0.00022	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	3-Oct-23		0.0034	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	12-Jun-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	0.00027	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
	3-Oct-24		<0.0030	<0.00060	<0.00020	<0.010	<0.0010	<0.020	<0.000020	<0.30	<0.0010	<0.00030	<0.0010	<0.060	<0.00020	<0.020	<0.20	<0.0040	<0.0000019	<0.00020	<0.00050	<0.10	<0.30	<0.00020	<0.50	<0.00010	<0.50	<0.020	<0.20	<0.00020	<0.0010	<0.0010	<0.00010	<0.0010	<0.0030
Laboratory Detection Limits			*0.0030*	*0.00060*	*0.00020*	*0.010*	*0.0010*	*0.020*	*0.000020*	*0.30*	*0.0010*	*0.00030*	*0.0010*	*0.060*	*0.00020*	*0.020*	*0.20*	*0.0040*	*0.0000019 - 0.0000038*	*0.00020*	*0.00050*	*0.10*	*0.30*	*0.00020*	*0.50*	*0.00010*	*0.50*	*0.020*	*0.20*	*0.00020*	*0.0010*	*0.0010*	*0.00010*	*0.0010*	*0.0030*
Manitoba Water Quality Standards, Objectives, and Guidelines [2]																																					
Protection of Cool Water Aquatic Life																																					
Tier II Objective (acute)			-	-	-	-	-	-	*0.000989 - 0.0312* [2a]	-	*0.972 - 15.656* [2a]	-	*0.00687 - 0.168* [2a]	-	*0.0312 - 2.349* [2a]	-	-	-	-	-	*0.248 - 4.375* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	*0.0632 - 1.121* [2a]
Tier II Objective (chronic)			-	-	-	-	-	-	*0.000155 - 0.00191* [2a]	-	*0.0464 - 0.748* [2a]	-	*0.00489 - 0.0890* [2a]	-	*0.00122 - 0.0916* [2a]	-	-	-	-	-	*0.0275 - 0.486* [2a]	-	-	-	-	-	-	-	-	-	-	-	-	*0.0632 - 1.121* [2a]
Tier III Guideline			*0.1 (pH ≥ 6.5) 0.005 (pH <6.5)*	-	-	-	-	-	-	-	-	-	-	*0.3*	-	-	-	-	*0.000026*	*0.073*	-	-	-	*0.001*	-	*0.0001*	-	-	-	*0.0008*	-	-	*0.015*	-	-

Notes:
"-" = No Data EQL = Estimated Quantitation Limit = Lowest level of the parameter that can be quantified with confidence NC = Not Calculated RPD = Relative Percent Difference

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.
2. Manitoba Water Quality Standards, Objectives, and Guidelines (MWQSOG). Manitoba Water Stewardship, 2011.
   a. Guideline values are dependent on hardness value of specific samples. Equations used to calculate guideline value are provided in Manitoba Water Quality Standards, Objectives, and Guidelines, 2011.
   Values for Dissolved Metals calculated using both factors in equations presented in guideline document. Calculated using sample specific total harness as CaCO3 as measured on September 20, 2022.

- Values above Tier II Chronic MWQSOG value.
- Values above Tier II Acute MWQSOG value.
- Values above Tier III MWQSOG guideline.

TABLE 13
COMPARISON OF KEY PARAMETER CONCENTRATIONS IN THE CAMP LAKE DISCHARGE (2008 TO 2024)
SHERRIDON MINE SITE, MANITOBA

Parameter	Units	Fraction	2008	2024 (12 samples)			
				Mean	Max	Min	% Change
Aluminum	mg/L	Total	1.47	0.097	0.19	0.035	-93%
		Dissolved	1.43	0.027	0.072	0.0073	-98%
Cadmium	mg/L	Total	0.00178	0.00062	0.0015	0.00026	-65%
		Dissolved	0.00174	0.00050	0.0013	0.00021	-72%
Copper	mg/L	Total	0.149	0.023	0.055	0.011	-84%
		Dissolved	0.153	0.016	0.032	0.0072	-90%
Iron	mg/L	Total	21.0	2.5	5.8	0.40	-88%
		Dissolved	20.0	1.4	3.1	0.03	-93%
Zinc	mg/L	Total	0.71	0.18	0.46	0.071	-74%
		Dissolved	0.698	0.15	0.38	0.051	-79%
pH	pH units	N/A	3.4	6.93	7.40	5.09	104%

TABLE 14
COMPARISON OF KEY DISSOLVED METALS PARAMETER CONCENTRATIONS IN COLD LAKE
(2008 TO 2024)
SHERRIDON MINE SITE, MANITOBA

Parameter	Year		Parameter Concentration [1]									
			CL2 (sfc)	CL2 (btm)	CL3 (sfc)	CL3 (btm)	CL4 (sfc)	CL4 (btm)	CL5 (sfc)	CL5 (btm)	CL6 (sfc)	CL6 (btm)
Aluminum	2024	Mean	0.016	0.017	0.018	0.020	0.015	0.016	0.018	0.017	0.015	0.015
		Max	0.025	0.022	0.035	0.042	0.029	0.022	0.034	0.029	0.033	0.032
		Min	0.0040	0.0110	0.0036	0.0032	0.0033	0.011	0.0056	0.0050	0.0036	0.0044
	2008	September	0.368	0.346	0.401	0.365	0.301	0.273	0.196	0.196	0.0435	0.0416
		% Change	-96%	-95%	-95%	-94%	-95%	-94%	-91%	-91%	-65%	-63%
Cadmium	2024	Mean	0.000074	0.000067	0.00014	0.000162	0.000075	0.000059	0.000061	0.000054	0.000034	0.000035
		Max	0.0002	0.00017	0.00051	0.00070	0.000220	0.000110	0.000170	0.00013	0.000110	0.000093
		Min	0.000010	0.000010	0.000010	0.000010	0.000010	0.000020	0.000010	0.000010	0.000010	0.000010
	2008	September	0.000718	0.000691	0.000673	0.000669	0.000626	0.000592	0.000524	0.000520	0.000185	0.000178
		% Change	-90%	-90%	-79%	-76%	-88%	-90%	-88%	-90%	-81%	-80%
Copper	2024	Mean	0.0068	0.0067	0.0085	0.0091	0.0067	0.0058	0.0062	0.0065	0.0048	0.0049
		Max	0.011	0.011	0.019	0.021	0.011	0.0077	0.01	0.0096	0.0078	0.0069
		Min	0.0045	0.0044	0.0035	0.003	0.0046	0.0041	0.0045	0.0039	0.0034	0.0034
	2008	September	0.0392	0.0388	0.0396	0.0380	0.0343	0.0317	0.0271	0.0267	0.0108	0.0107
		% Change	-83%	-83%	-78%	-76%	-80%	-82%	-77%	-76%	-56%	-55%
Iron	2024	Mean	0.15	0.18	0.24	0.24	0.13	0.21	0.10	0.12	0.059	0.065
		Max	0.33	0.34	0.47	0.490	0.240	0.44	0.23	0.200	0.097	0.120
		Min	0.030	0.076	0.030	0.030	0.030	0.10	0.030	0.030	0.030	0.030
	2008	September	1.35	1.23	1.33	0.779	0.362	0.216	0.117	0.122	0.206	0.214
		% Change	-89%	-85%	-82%	-70%	-64%	-1%	-10%	-3%	-71%	-70%
Zinc	2024	Mean	0.028	0.027	0.047	0.054	0.028	0.023	0.024	0.023	0.016	0.016
		Max	0.068	0.059	0.15	0.22	0.073	0.035	0.061	0.048	0.041	0.036
		Min	0.0091	0.0088	0.010	0.0088	0.009	0.01	0.0082	0.0087	0.0068	0.0062
	2008	September	0.279	0.274	0.277	0.273	0.249	0.239	0.215	0.211	0.0871	0.0849
		% Change	-90%	-90%	-83%	-80%	-89%	-90%	-89%	-89%	-82%	-82%

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.

TABLE 15
COMPARISON OF KEY TOTAL METALS PARAMETER CONCENTRATIONS IN COLD LAKE
(2008 TO 2024)
SHERRIDON MINE SITE, MANITOBA

Parameter	Year		Parameter Concentration [1]								
			CL2 (sfc)	CL2 (btm)	CL3 (sfc)	CL3 (btm)	CL4 (sfc)	CL4 (btm)	CL5 (sfc)	CL5 (btm)	CL6 (sfc)
Aluminum	2024	Mean	0.048	0.050	0.062	0.061	0.053	0.057	0.057	0.057	0.054
		Max	0.070	0.064	0.190	0.12	0.087	0.079	0.1	0.095	0.090
		Min	0.033	0.030	0.010	0.013	0.017	0.037	0.038	0.022	0.032
	2008	September	0.39	0.38	0.38	0.36	0.31	0.27	0.23	0.23	0.081
		% Change	-88%	-87%	-84%	-83%	-83%	-79%	-75%	-76%	-33%
Cadmium	2024	Mean	0.000116	0.000110	0.000205	0.000209	0.000121	0.000104	0.000103	0.000091	0.000058
		Max	0.00025	0.00024	0.000670	0.00075	0.00031	0.0002	0.00021	0.00021	0.00012
		Min	0.000032	0.000031	0.000028	0.000035	0.000034	0.000036	0.000034	0.000035	0.000026
	2008	September	0.00073	0.00075	0.00076	0.00072	0.00068	0.00063	0.00057	0.00056	0.00022
		% Change	-84%	-85%	-73%	-71%	-82%	-83%	-82%	-84%	-73%
Copper	2024	Mean	0.0091	0.0091	0.0125	0.0128	0.0095	0.0086	0.0085	0.0082	0.0066
		Max	0.015	0.015	0.0290	0.029	0.017	0.013	0.015	0.015	0.0100
		Min	0.0044	0.0048	0.0040	0.0047	0.0048	0.0052	0.0047	0.0054	0.0038
	2008	September	0.046	0.045	0.046	0.044	0.040	0.037	0.032	0.032	0.013
		% Change	-80%	-80%	-73%	-71%	-76%	-77%	-74%	-74%	-49%
Iron	2024	Mean	0.33	0.40	0.50	0.53	0.31	0.59	0.26	0.30	0.16
		Max	0.63	0.65	0.9	1.20	0.500	1.5	0.4	0.56	0.24
		Min	0.10	0.24	0.05	0.03	0.03	0.31	0.11	0.11	0.03
	2008	September	1.6	1.8	1.8	1.6	1.3	1.2	0.99	1.0	0.54
		% Change	-79%	-78%	-71%	-68%	-77%	-51%	-74%	-70%	-70%
Zinc	2024	Mean	0.037	0.036	0.068	0.066	0.040	0.035	0.034	0.032	0.021
		Max	0.083	0.078	0.20	0.23	0.11	0.072	0.074	0.072	0.043
		Min	0.013	0.011	0.011	0.011	0.011	0.014	0.012	0.011	0.011
	2008	September	0.29	0.29	0.29	0.28	0.26	0.25	0.22	0.22	0.098
		% Change	-87%	-87%	-77%	-77%	-85%	-86%	-85%	-85%	-79%

1. All values are expressed in milligrams per litre (mg/L) unless otherwise specified.

FIGURES

Portions of data Produced by KGS Group, under Licence with the Province of Manitoba © 2024 Her Majesty the King in Right of Manitoba. All rights reserved.

LEGEND:

- Biweekly Water Sampling Location
- Additional Sherlett Creek Sampling Location
- Lake

NOTES:

1. Image Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.
2. All units are metric and in metres unless otherwise specified. Transverse Mercator Projection, NAD 1983, Zone 14. Elevations are in metres above sea level (MSL).

200 0 200 400 600 800
Metres

SCALE: 1:20,000 METRIC 11"x17"

NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EJC

REVISIONS / ISSUE

KGS GROUP

Manitoba

OAM SUBPROGRAM PROJECT
SHERRIDON MINE SITE
2024 WATER QUALITY SUMMARY REPORT

SITE PLAN AND SURFACE WATER SAMPLING LOCATIONS

JUNE 2025 | FIGURE 01 | REV: 0

FileName: R:\Projects\2021\21-1357-005\Design\GIS\DATA\ArcPro\2023_WQSR\figures.aprx 21-1357-005_Fig01
11"x17" PLOT SCALE 1:1

Portions of data Produced by KGS Group, under Licence with the Province of Manitoba © 2024 Her Majesty the King in Right of Manitoba. All rights reserved.

366750 367000 367250 367500

6110500 6110250 6110000

N W E S

MW-01-BR
SC-1
Wastewater Treatment Plant
MW-02-BR
Water Treatment Plant
SC-6
MW-04-BR
MW-04-OB
SC-5
MW-05-BR
SC-2
Sherlett Creek
SC-4
MW-03-OB
SC-3
Sherlett Lake
MW-11-OB
MW-09-OB
Wetland Area
MW-10-OB
MW-06-BR
Former East Mine Workings Area
MW-07-BR
MW-08-BR

bing

N
Churchill
Lynn Lake
Gillam
Thompson
Study Area
Flin Flon
Dauphin
Brandon
Winnipeg
210
km

LEGEND:

- Biweekly Water Sampling Location
- Additional Sherlett Creek Sampling Location
- Bedrock Monitoring Well
- Overburden Monitoring Well
- Wetland Area

NOTES:
1. Image Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.
2. All units are metric and in metres unless otherwise specified. Transverse Mercator Projection, NAD 1983, Zone 14. Elevations are in metres above sea level (MSL).

25 0 25 50 75 100
Metres

SCALE: 1:3,000 METRIC 11"x17"

NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EJC

REVISIONS / ISSUE

KGS GROUP

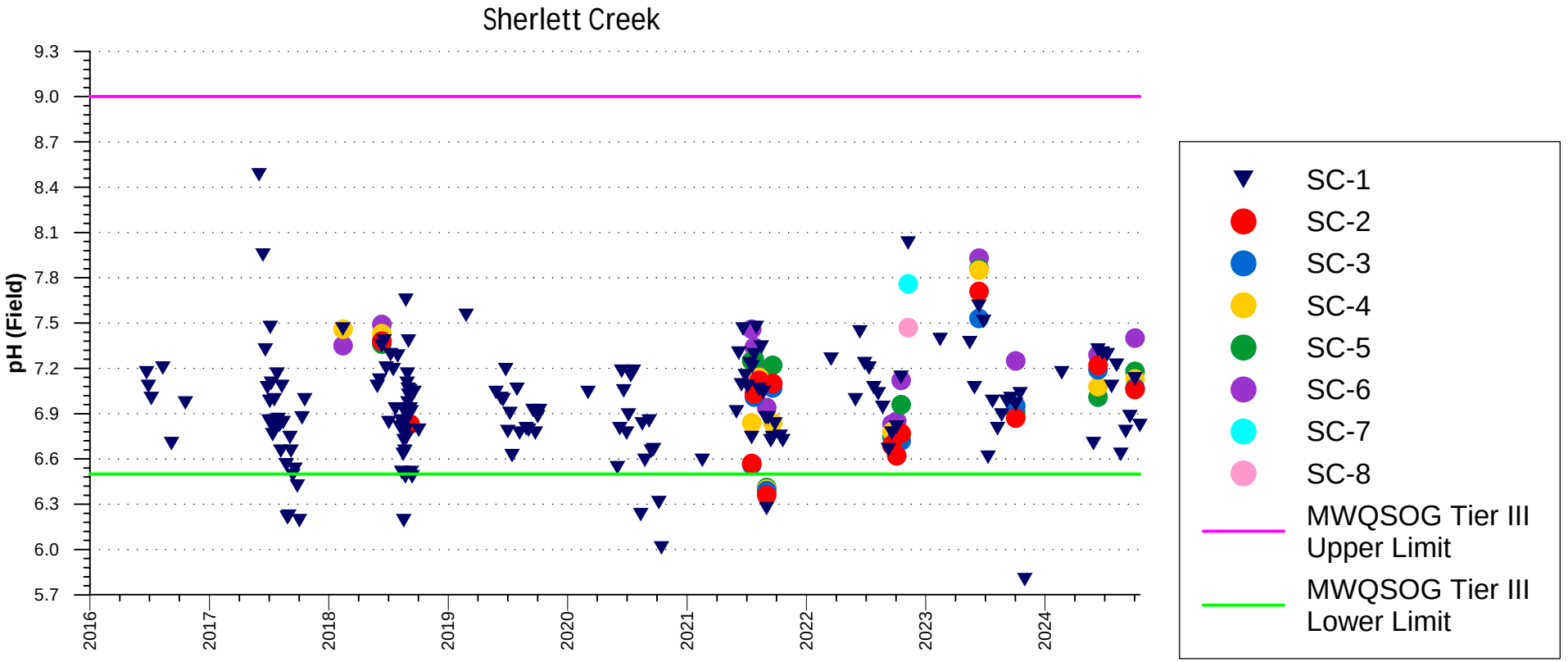
Manitoba

OAM SUBPROGRAM PROJECT
SHERRIDON MINE SITE
2024 WATER QUALITY SUMMARY REPORT

GROUNDWATER MONITORING WELL LOCATIONS

JUNE 2025 | FIGURE 02 | REV: 0

FileName: R:\Projects\2021\21-1357-0065\Design\GIS\DATA\ArcPro\2023_WQSR\figures.aprx 21-1357-005_Fig02
11"x17" PLOT SCALE 1:1



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

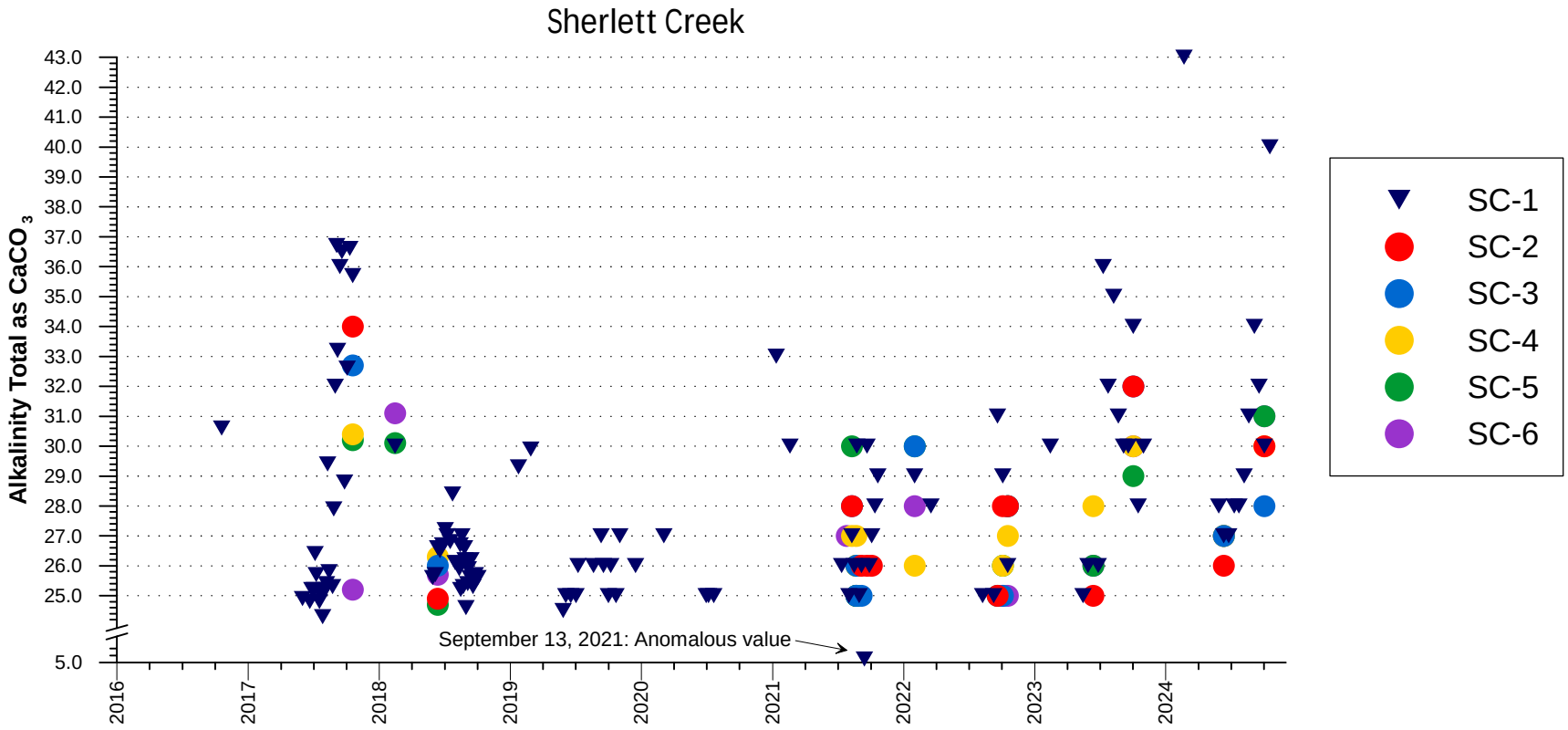
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

SHERLETT CREEK — FIELD pH (2016 - 2024)

JUNE 2025 | FIGURE 04 | REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

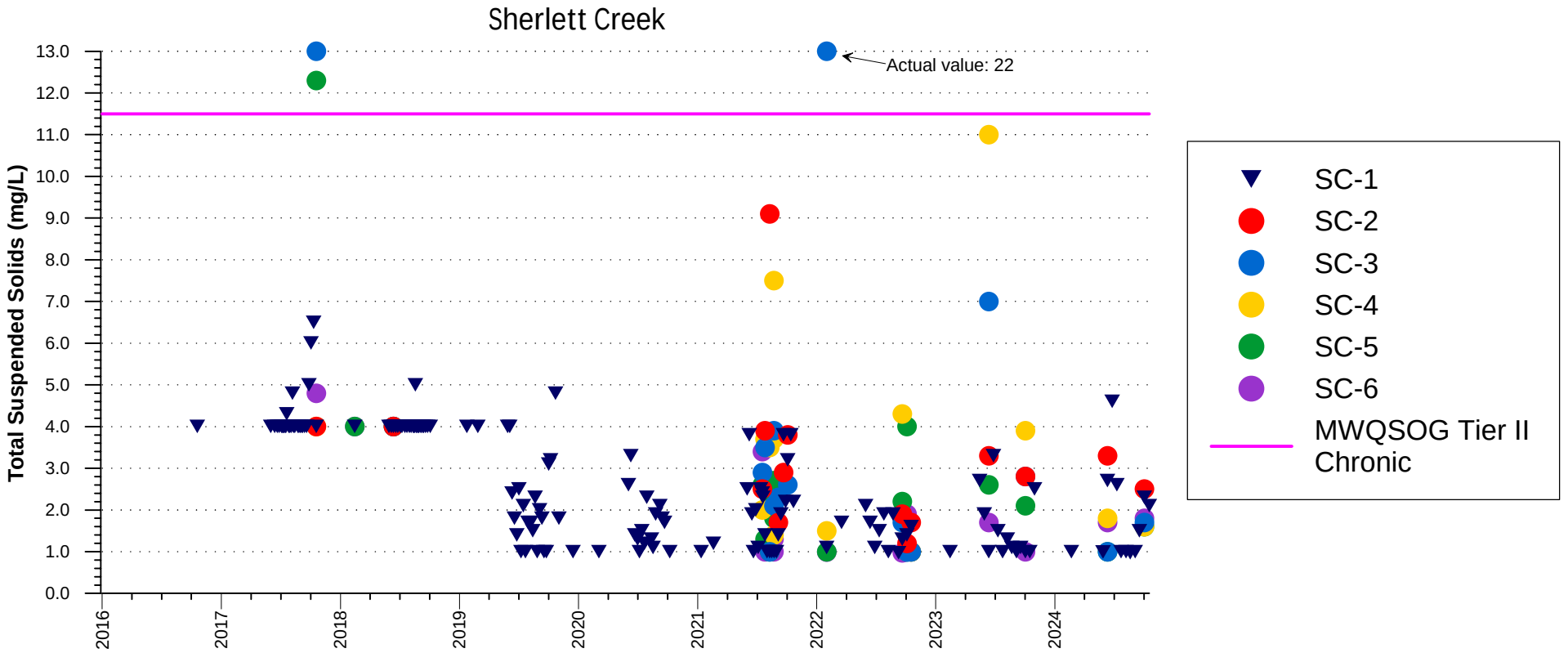
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

SHERLETT CREEK — TOTAL ALKALINITY
(2016 - 2024)

JUNE 2025	FIGURE 05	REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

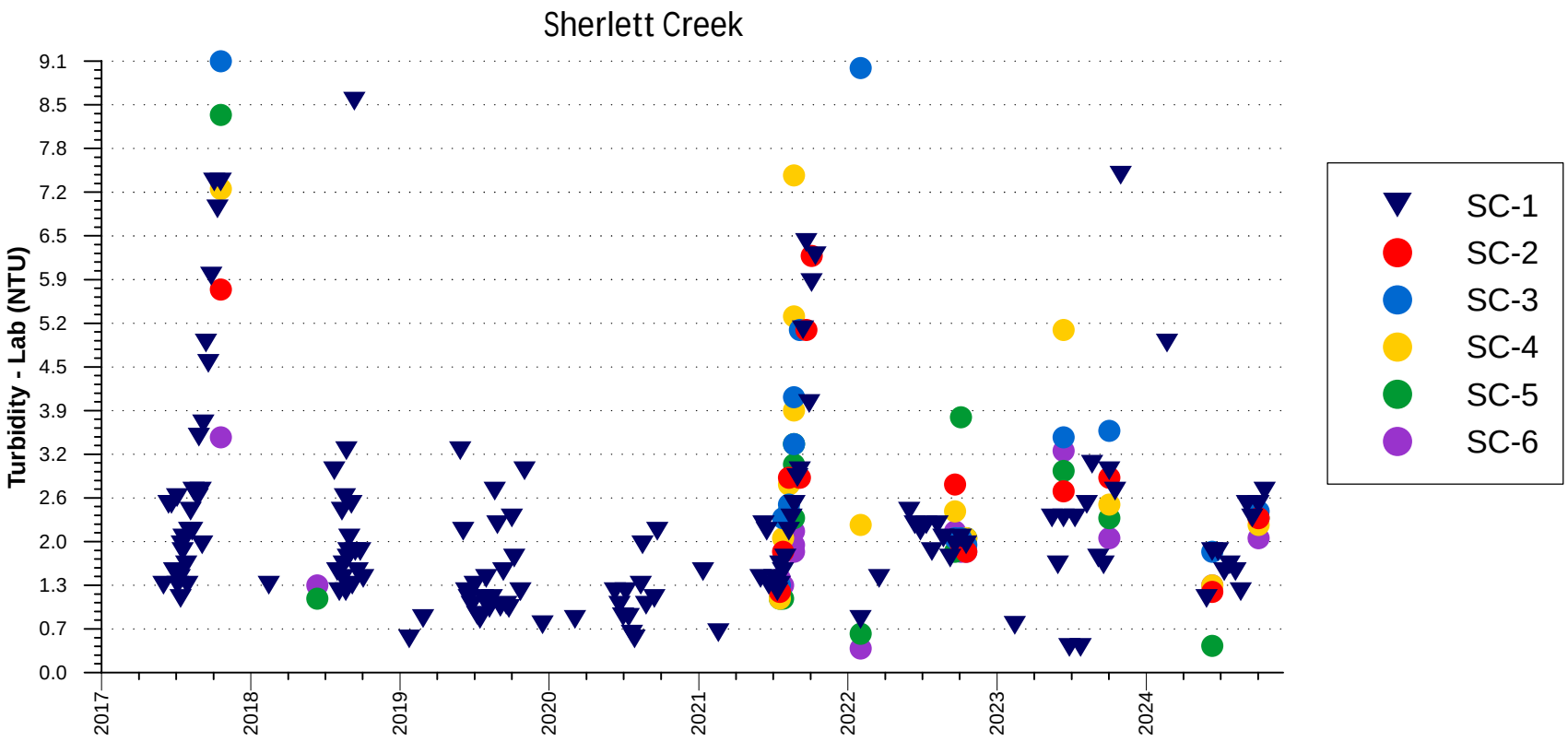
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

SHERLETT CREEK
TOTAL SUSPENDED SOLIDS (2016 - 2024)

JUNE 2025	FIGURE 06	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

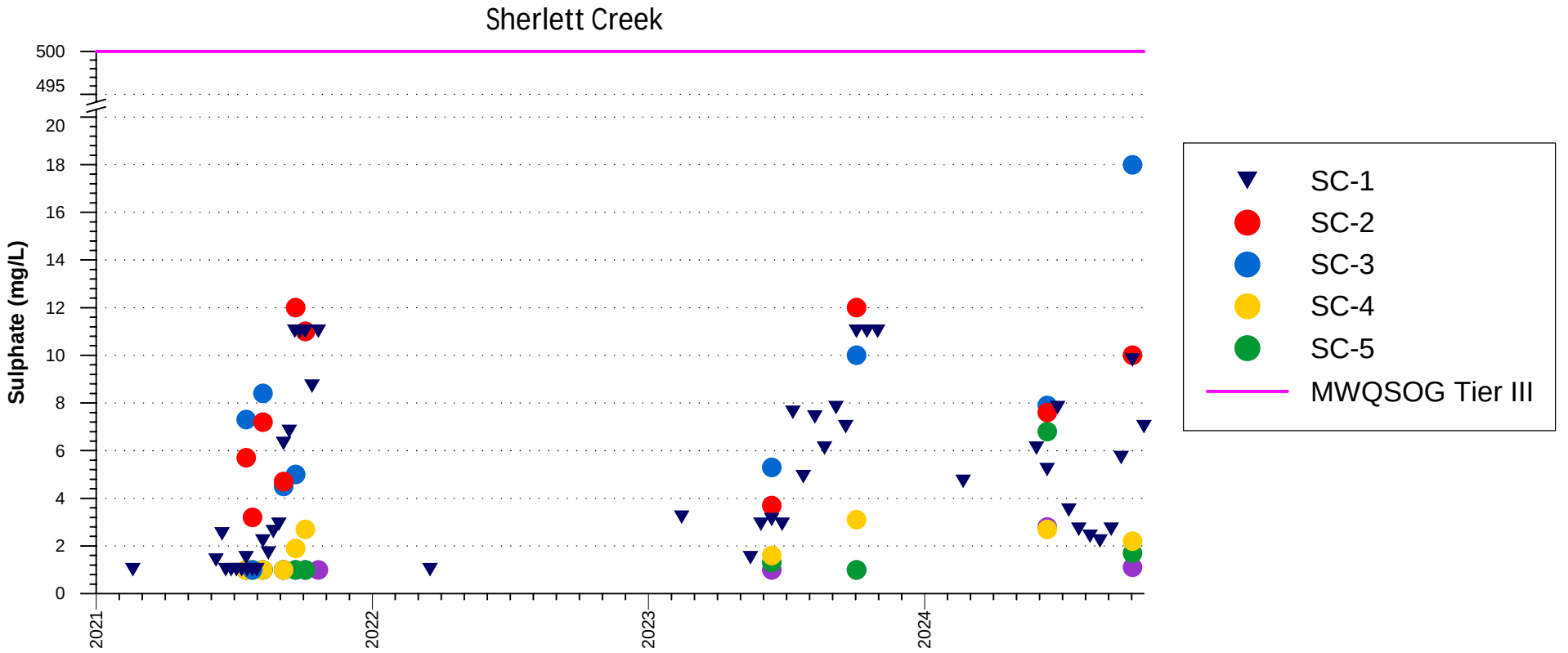
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

SHERLETT CREEK — LAB TURBIDITY
(2017 - 2024)

JUNE 2025	FIGURE 07	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

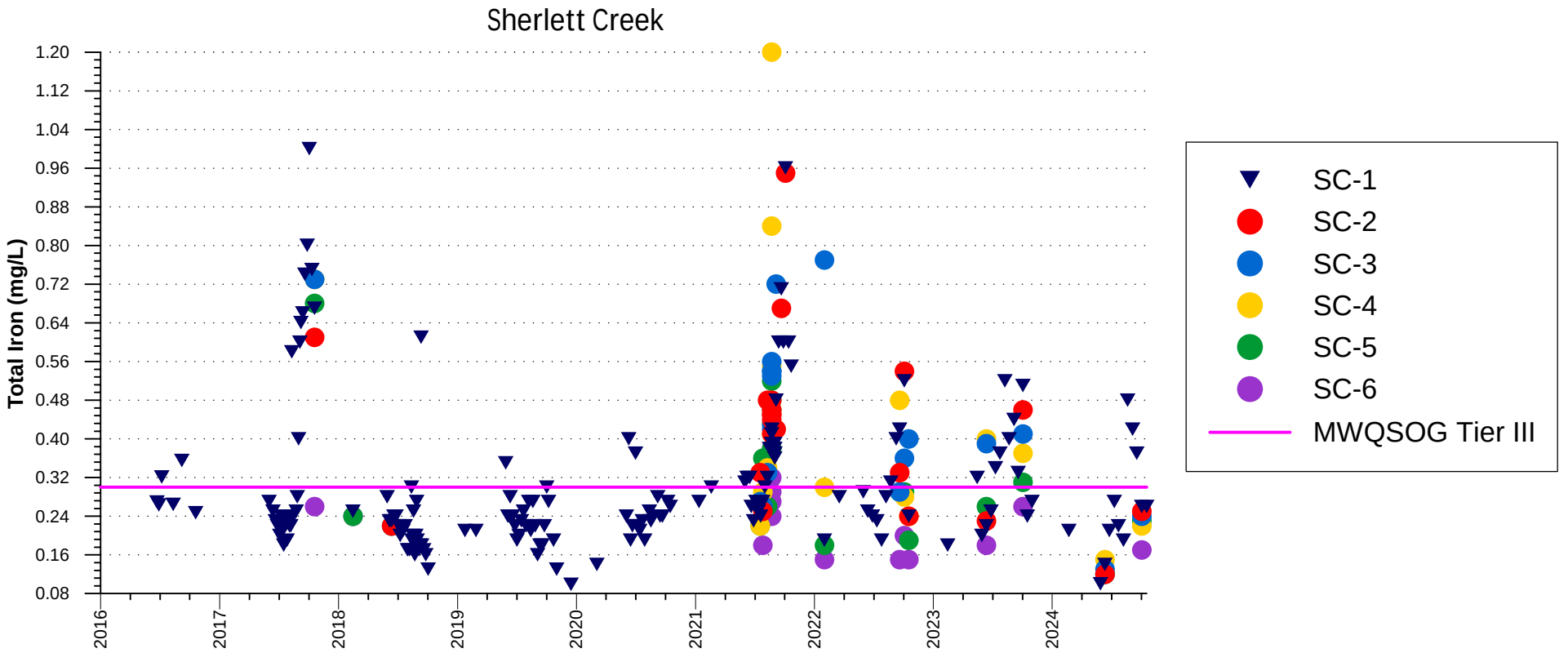
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

SHERLETT CREEK — SULPHATE
(2021 - 2024)

JUNE 2025	FIGURE 08	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

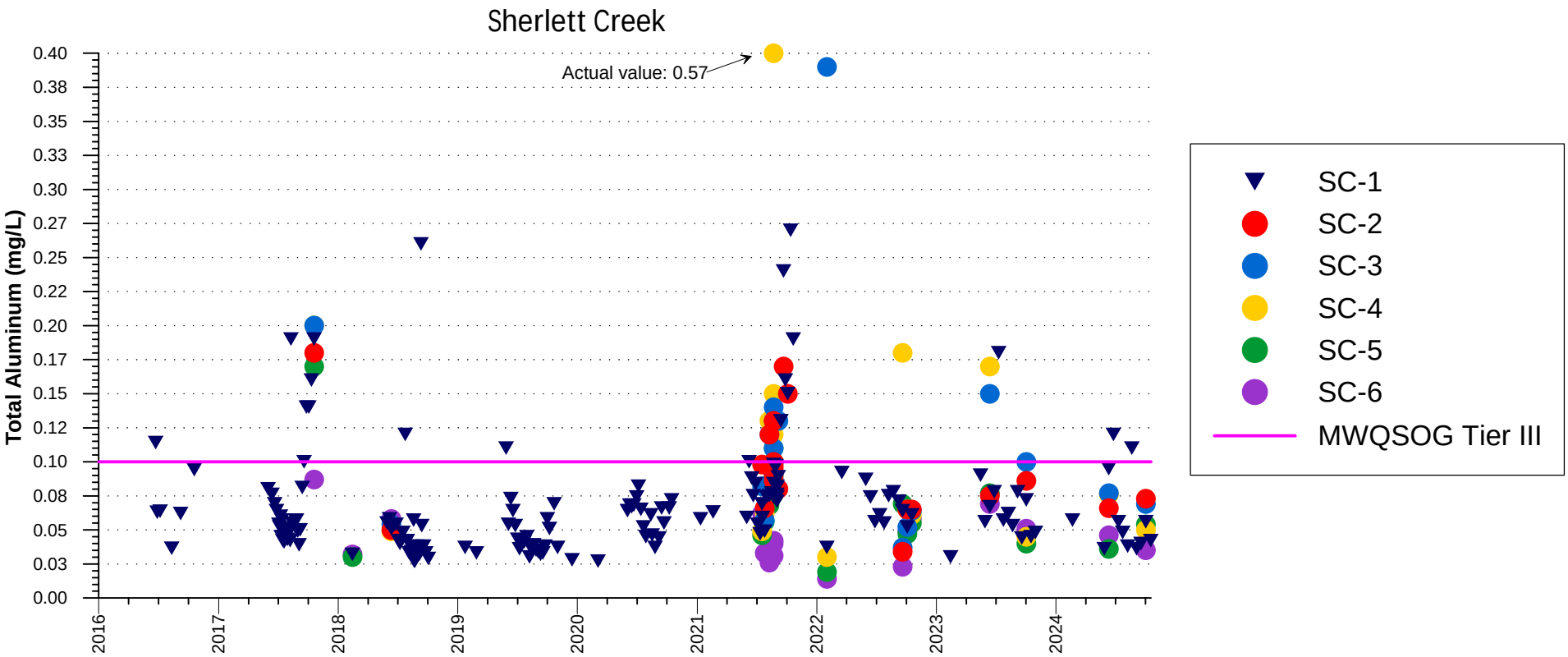
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

SHERLETT CREEK — TOTAL IRON
(2016 - 2024)

JUNE 2025	FIGURE 09	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

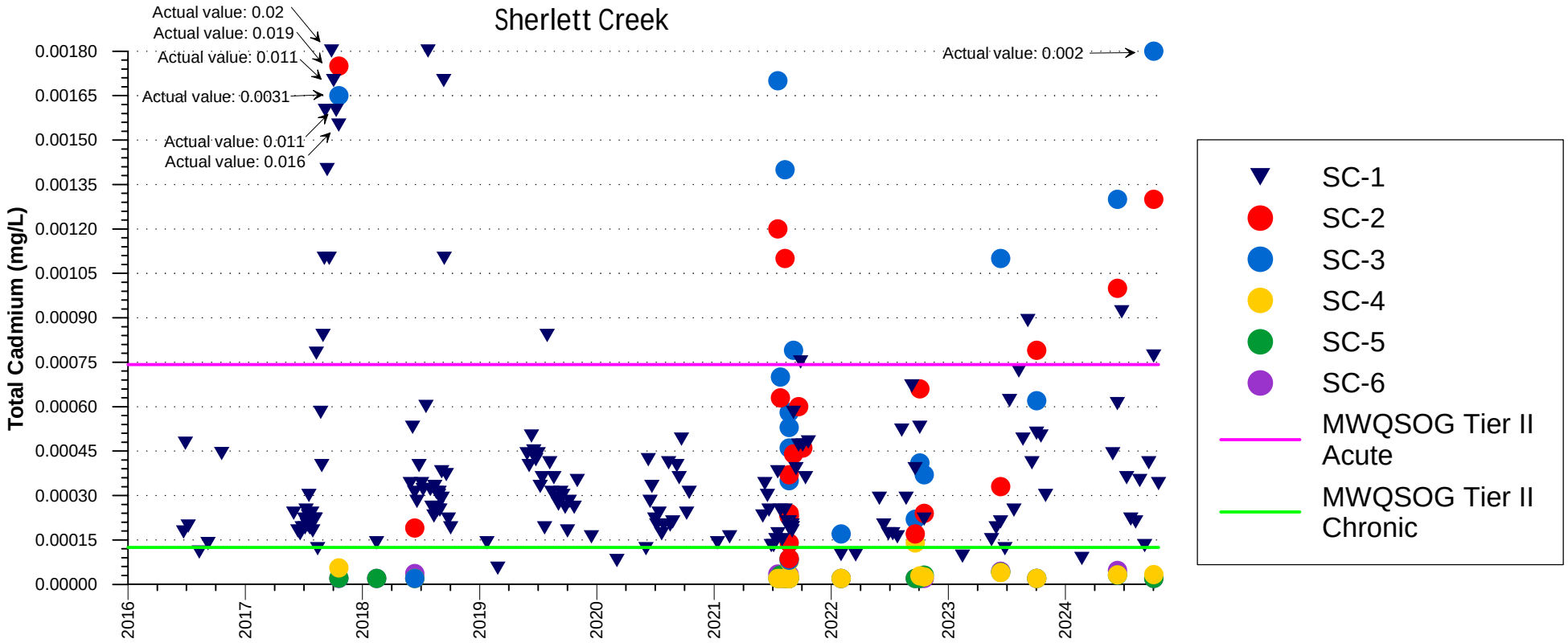
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

SHERLETT CREEK — TOTAL ALUMINUM
(2016 - 2024)

JUNE 2025	FIGURE 10	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

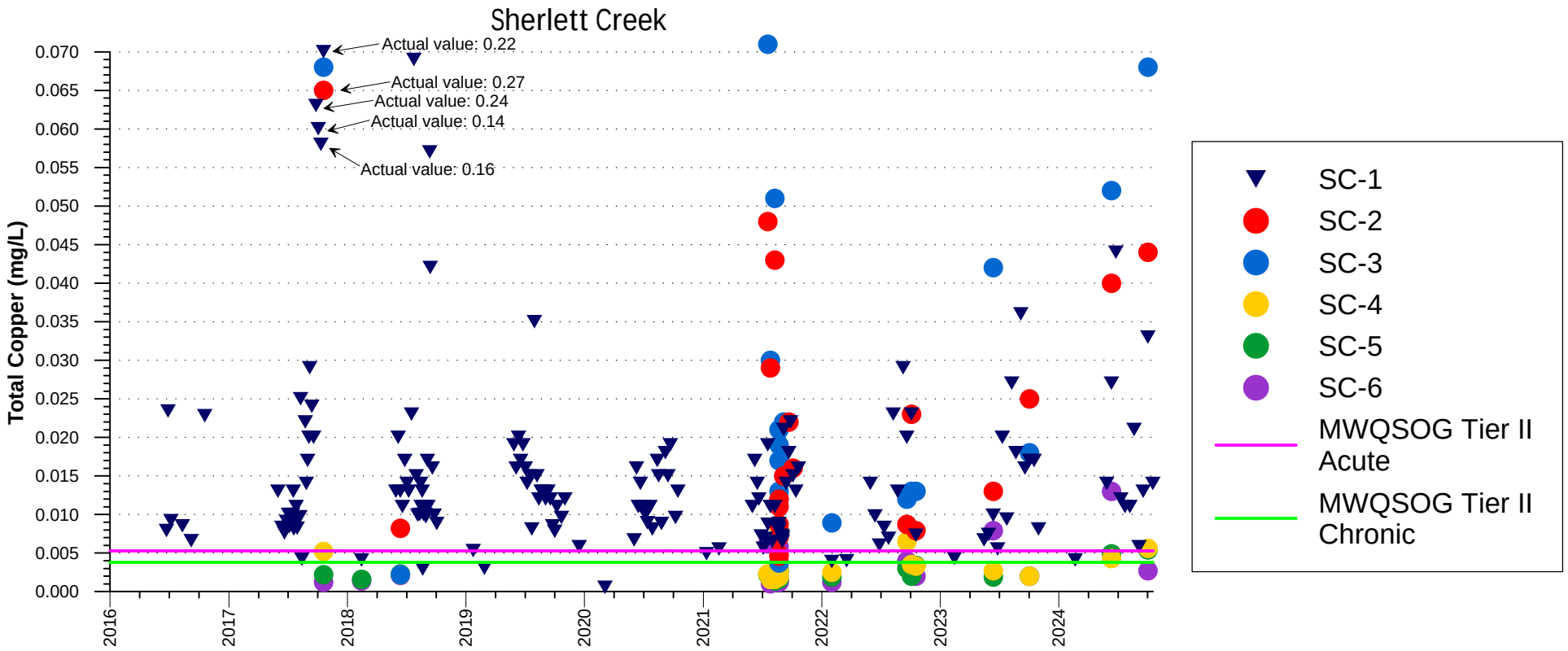
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

SHERLETT CREEK — TOTAL CADMIUM
(2016 - 2024)

JUNE 2025 | FIGURE 11 | REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

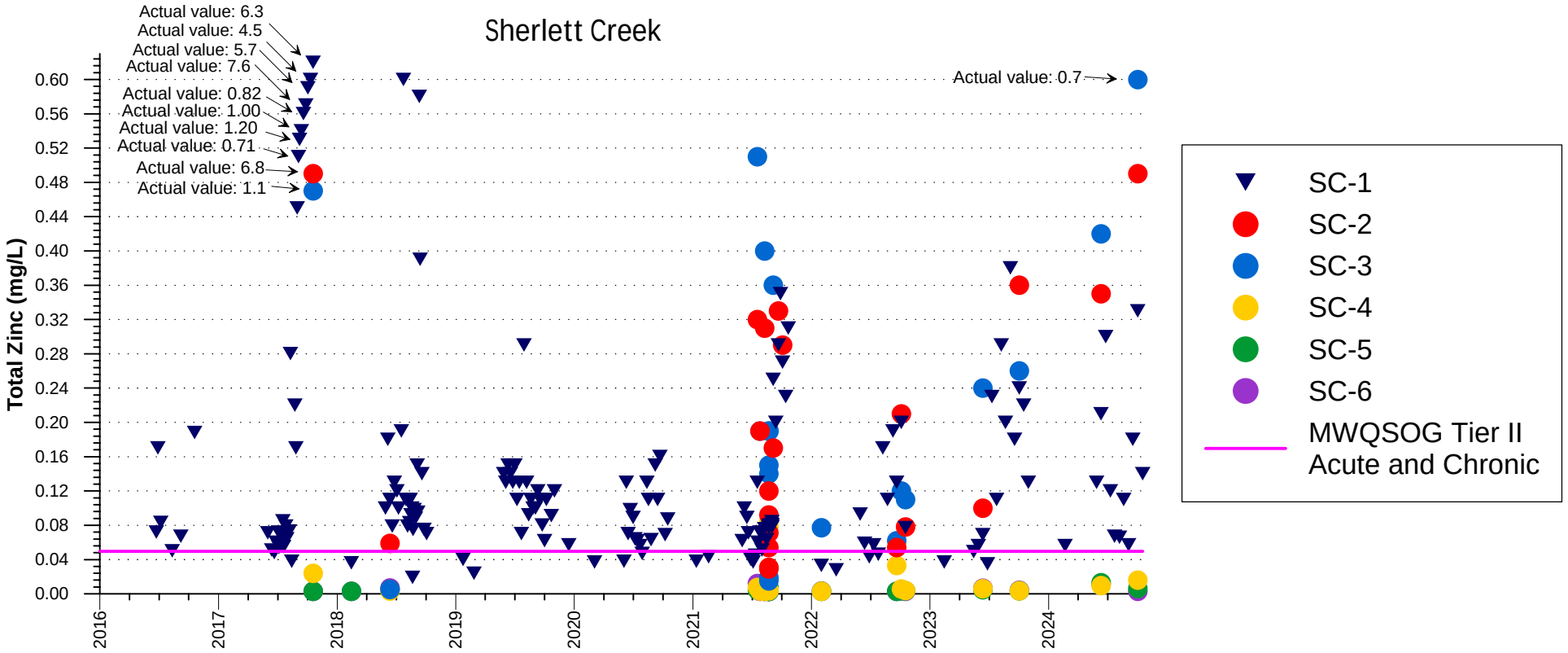
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

SHERLETT CREEK — TOTAL COPPER
(2016 - 2024)

JUNE 2025	FIGURE 12	REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

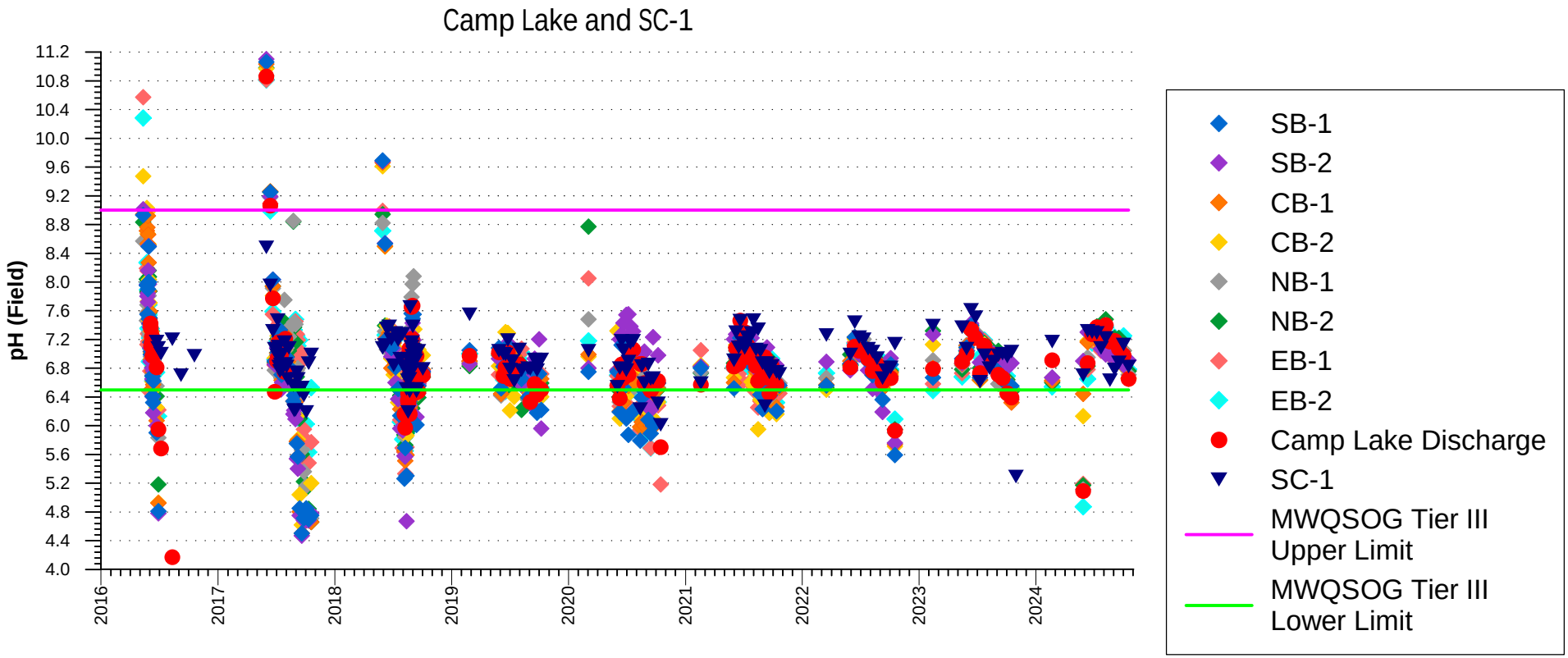
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

SHERLETT CREEK — TOTAL ZINC
(2016 - 2024)

JUNE 2025	FIGURE 13	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

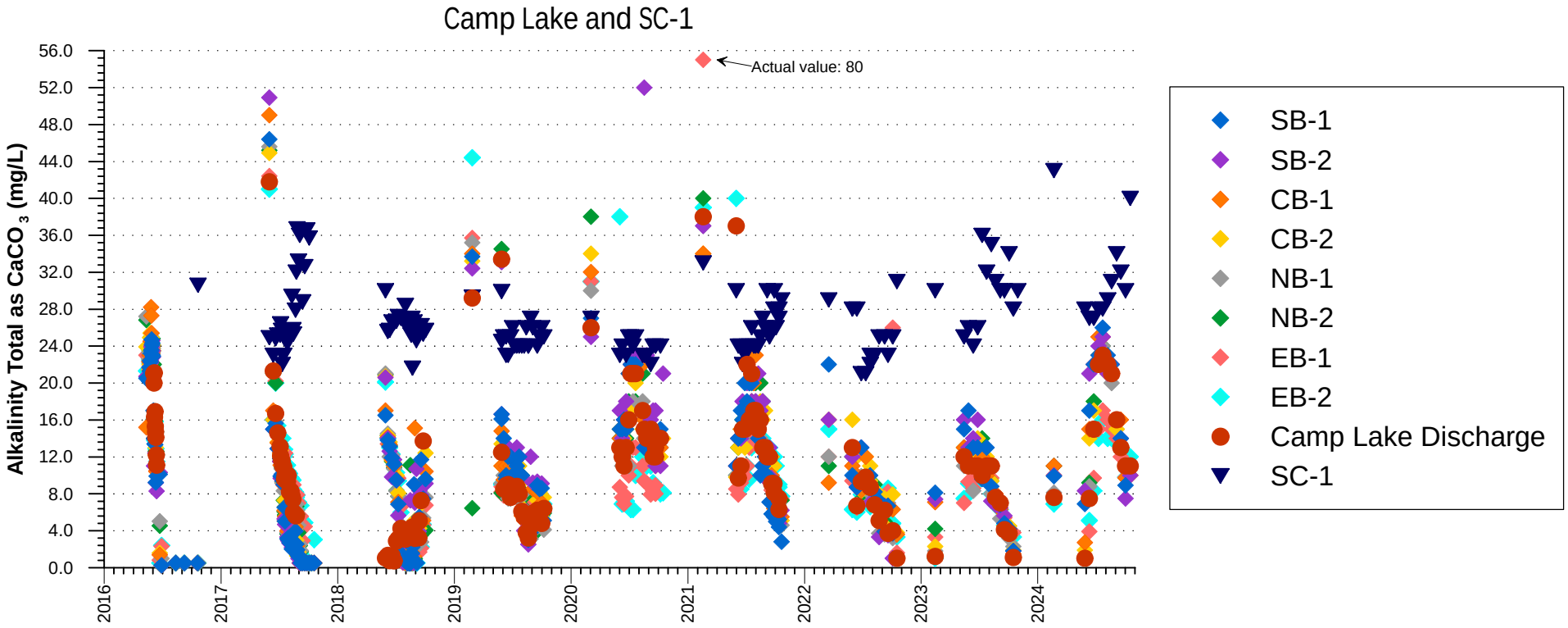
REVISIONS / ISSUE

KGS GROUP Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

CAMP LAKE AND SC-1 — FIELD pH
(2016 - 2024)

JUNE 2025 | FIGURE 14 | REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

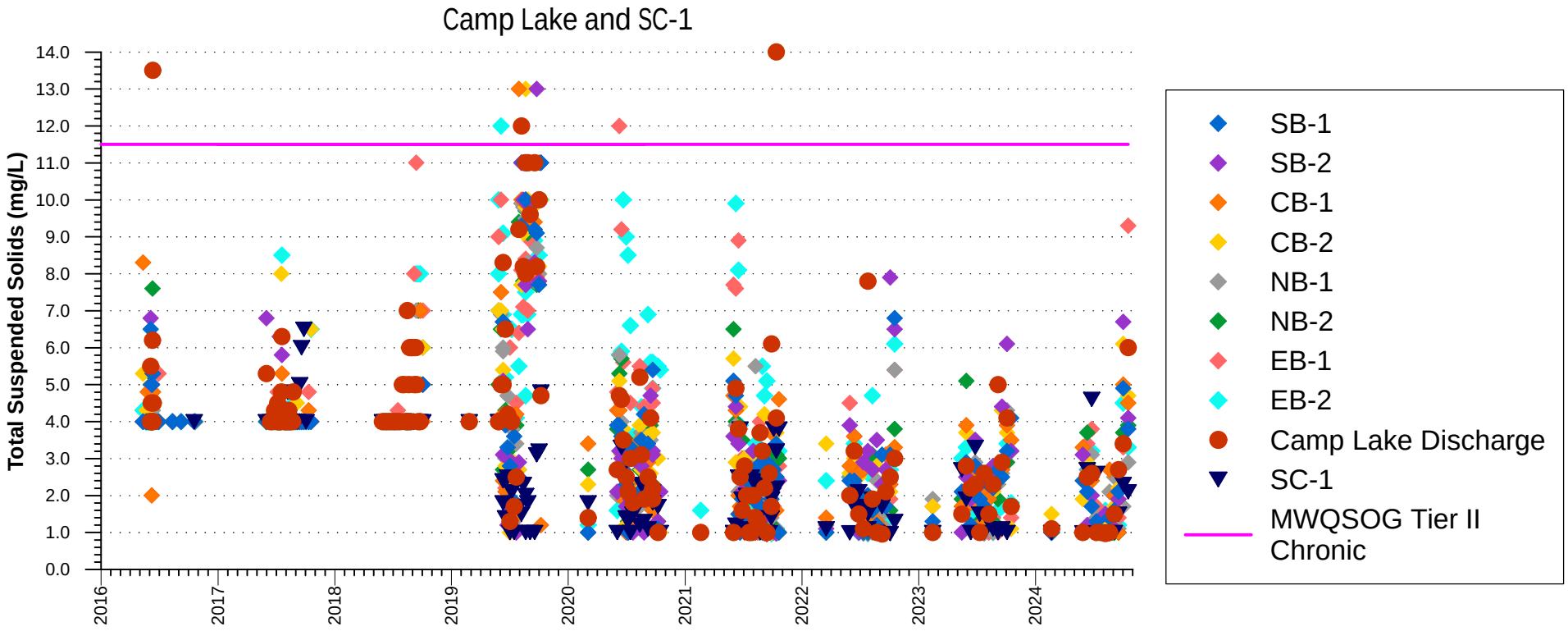
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

CAMP LAKE AND SC-1 — TOTAL ALKALINITY (2016 - 2024)

JUNE 2025 | FIGURE 15 | REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

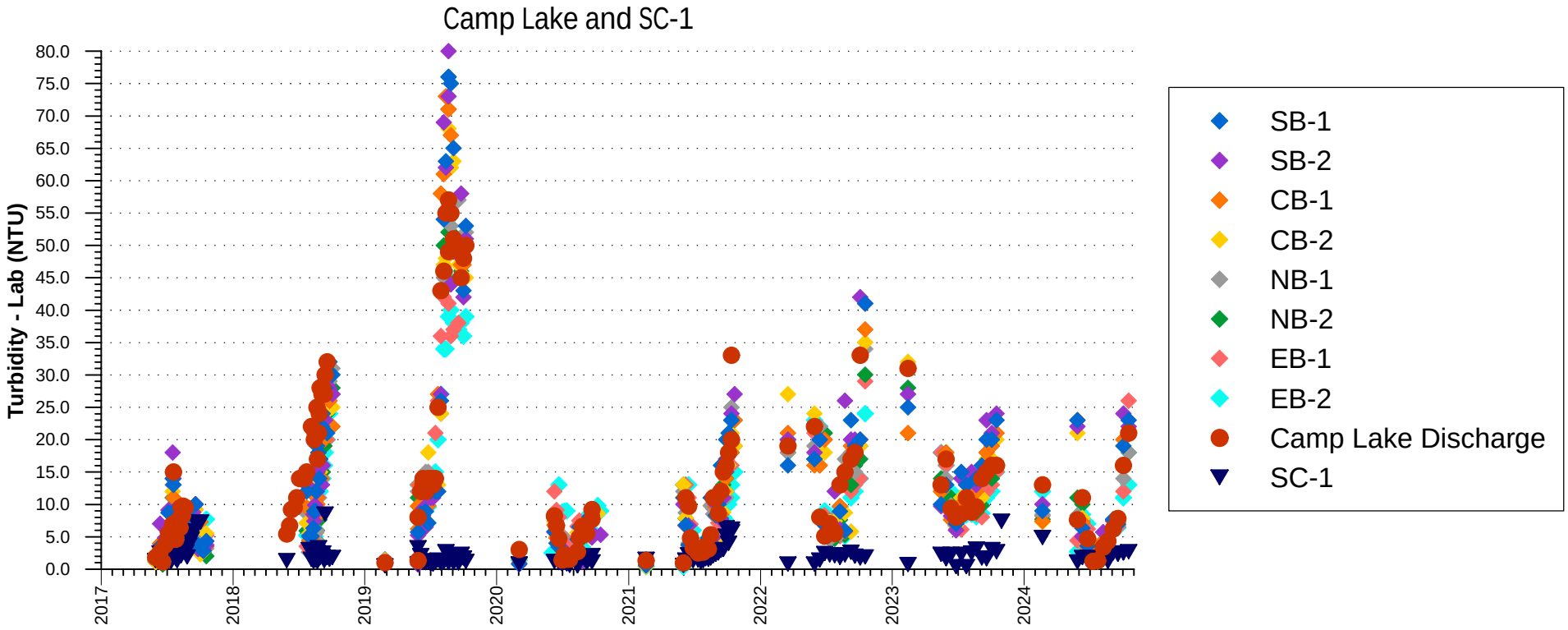
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

CAMP LAKE AND SC-1 — TOTAL SUSPENDED SOLIDS (2016 - 2024)

JUNE 2025	FIGURE 16	REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

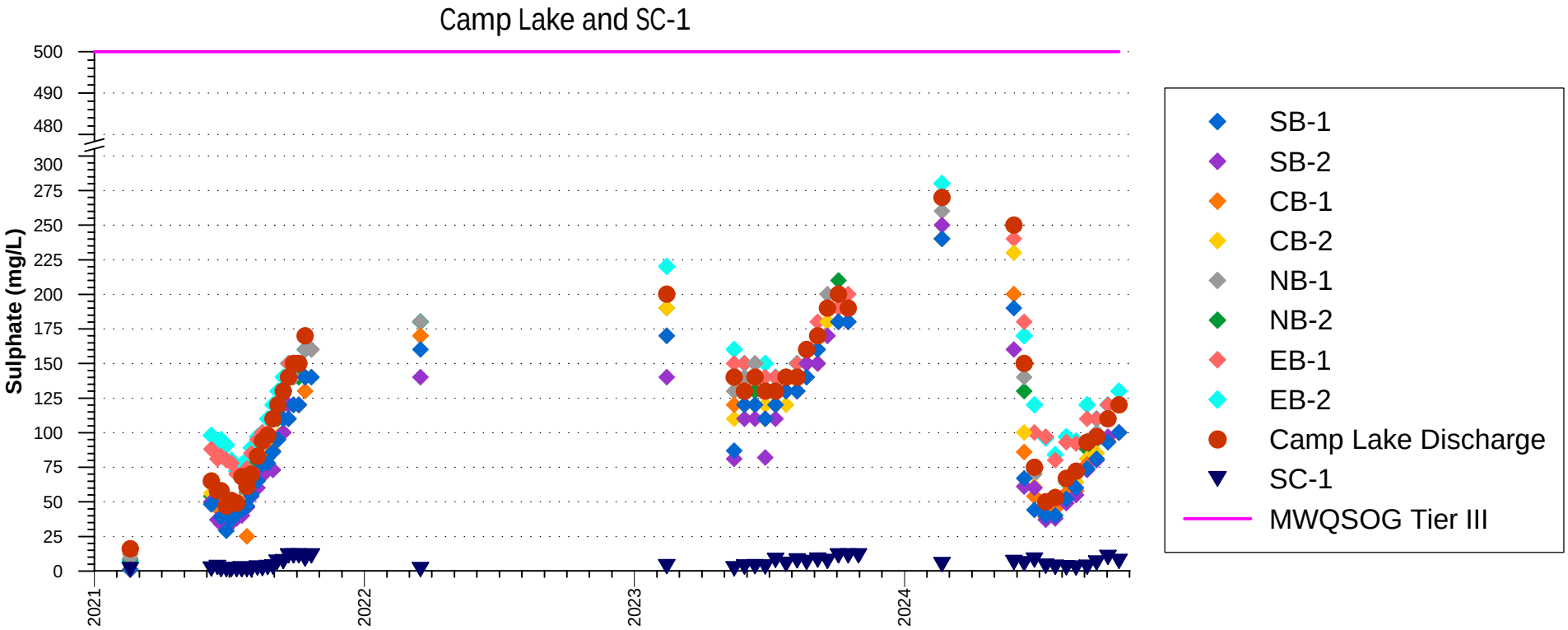
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

CAMP LAKE AND SC-1 — LAB TURBIDITY
(2017 - 2024)

JUNE 2025	FIGURE 17	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

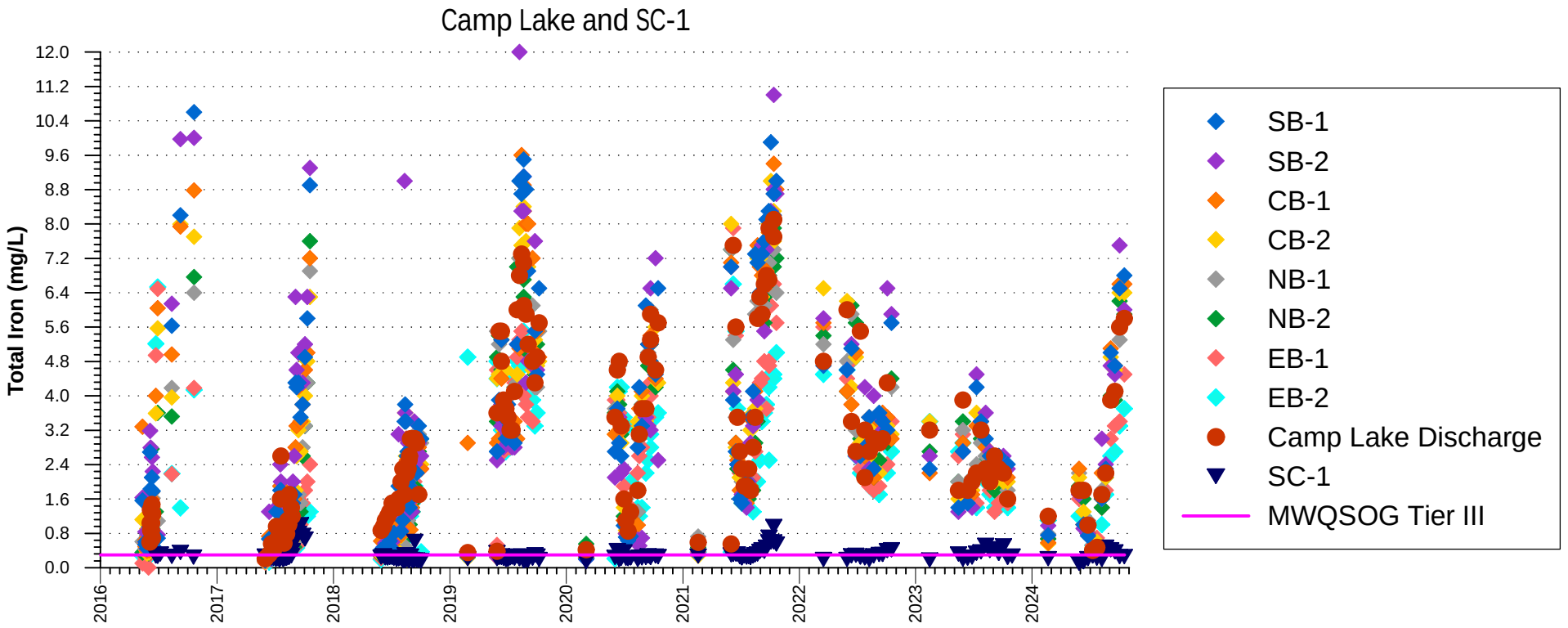
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

CAMP LAKE AND SC-1 — SULPHATE
(2021 - 2024)

JUNE 2025 | FIGURE 18 | REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

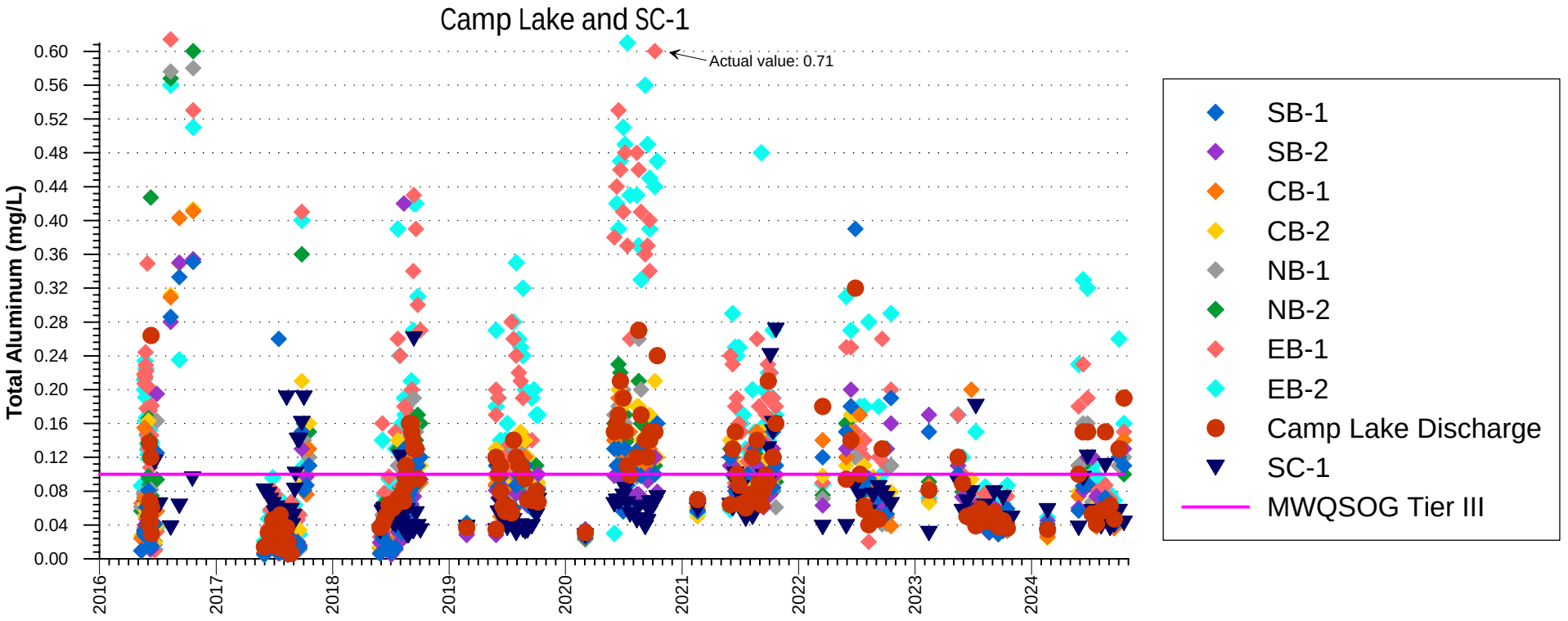
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

CAMP LAKE AND SC-1 — TOTAL IRON
(2016 - 2024)

JUNE 2025	FIGURE 19	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

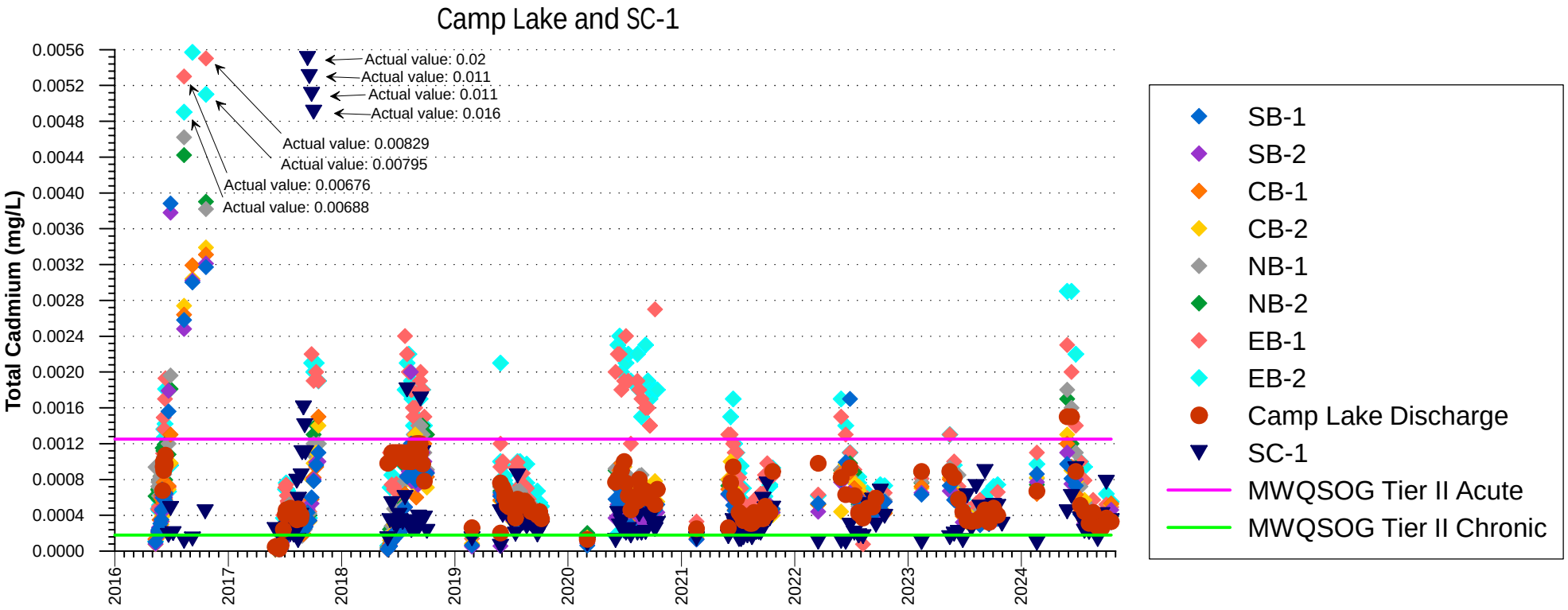
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

CAMP LAKE AND SC-1 — TOTAL ALUMINUM (2016 - 2024)

JUNE 2025 | FIGURE 20 | REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

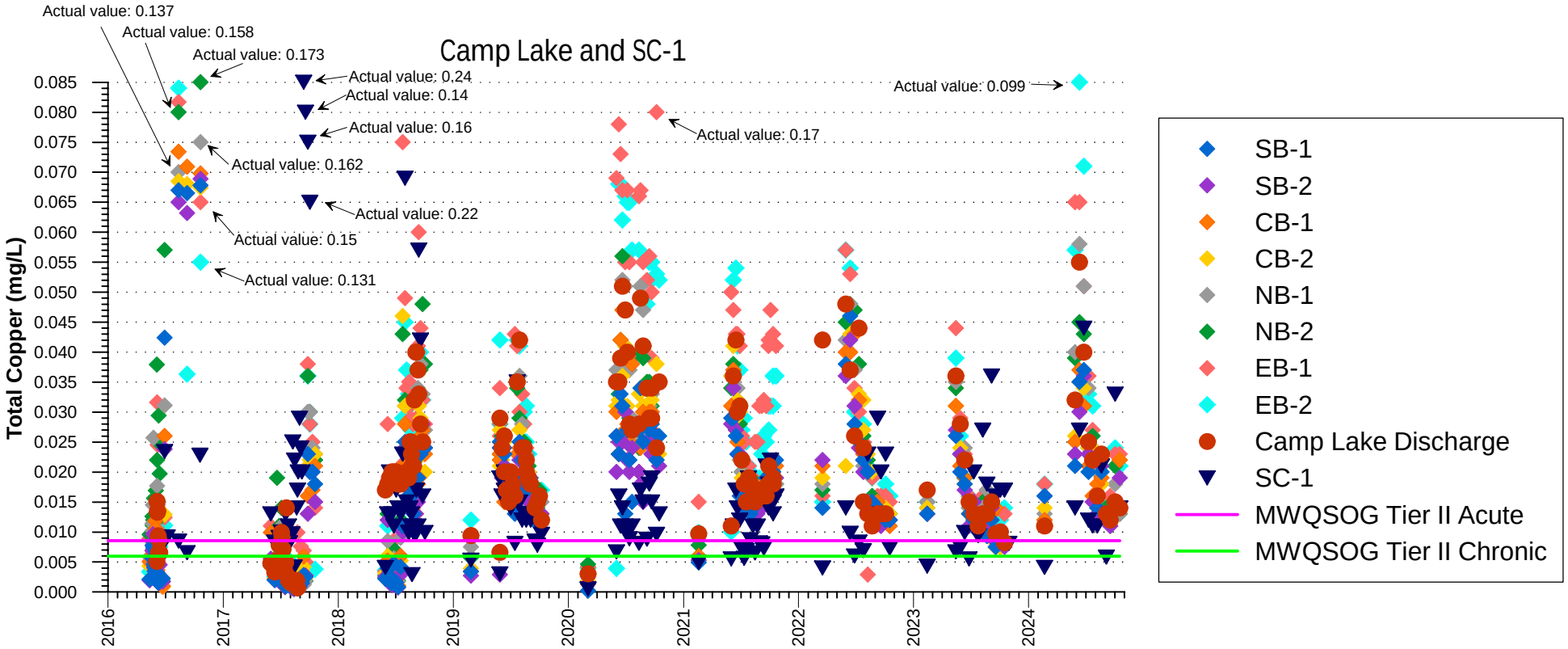
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

CAMP LAKE AND SC-1 — TOTAL CADMIUM
(2016 - 2024)

JUNE 2025	FIGURE 21	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

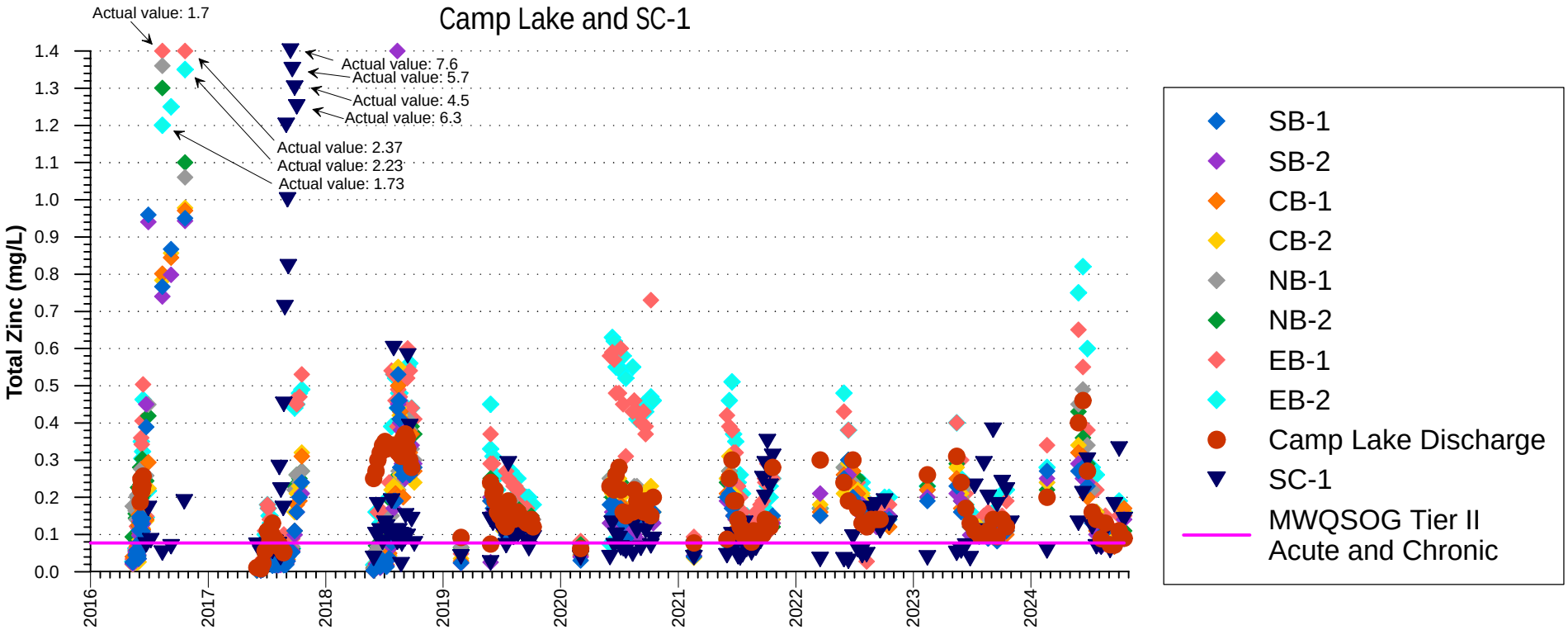
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

CAMP LAKE AND SC-1 — TOTAL COPPER
(2016 - 2024)

JUNE 2025	FIGURE 22	REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

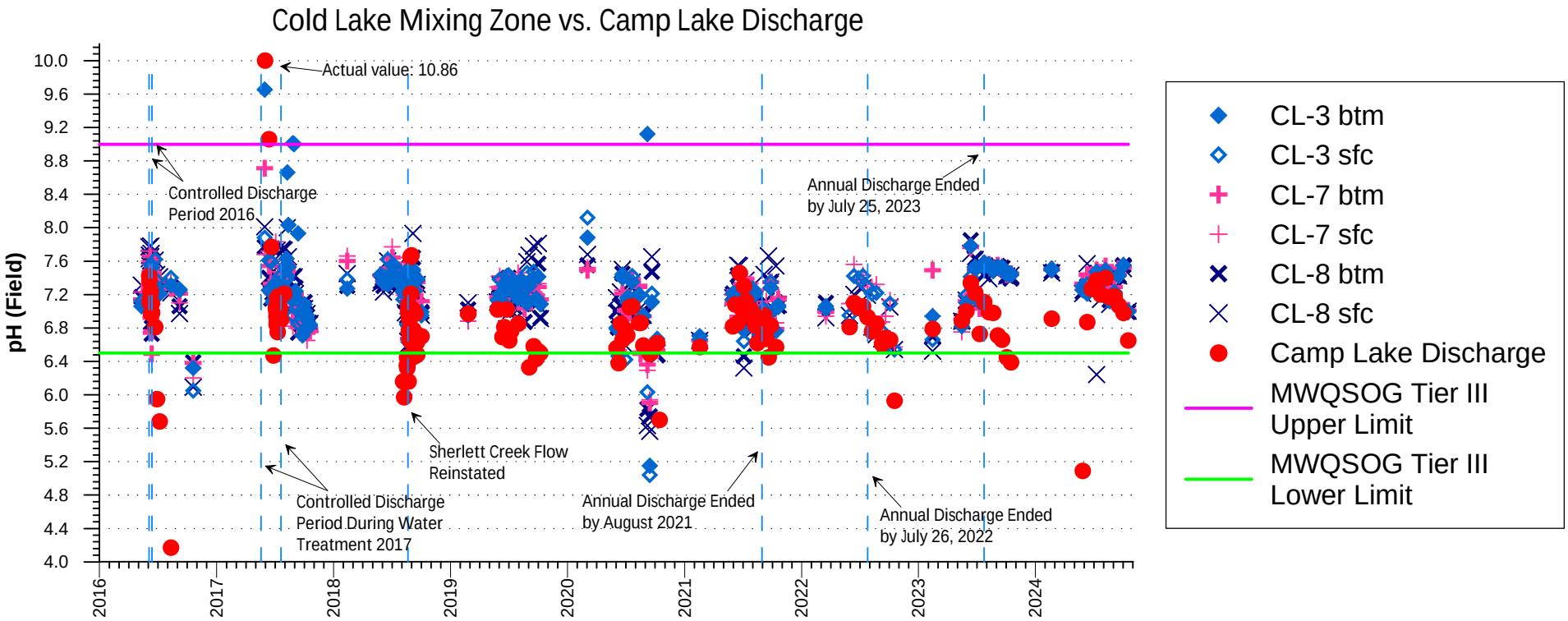
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

CAMP LAKE AND SC-1 — TOTAL ZINC
(2016 - 2024)

JUNE 2025	FIGURE 23	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

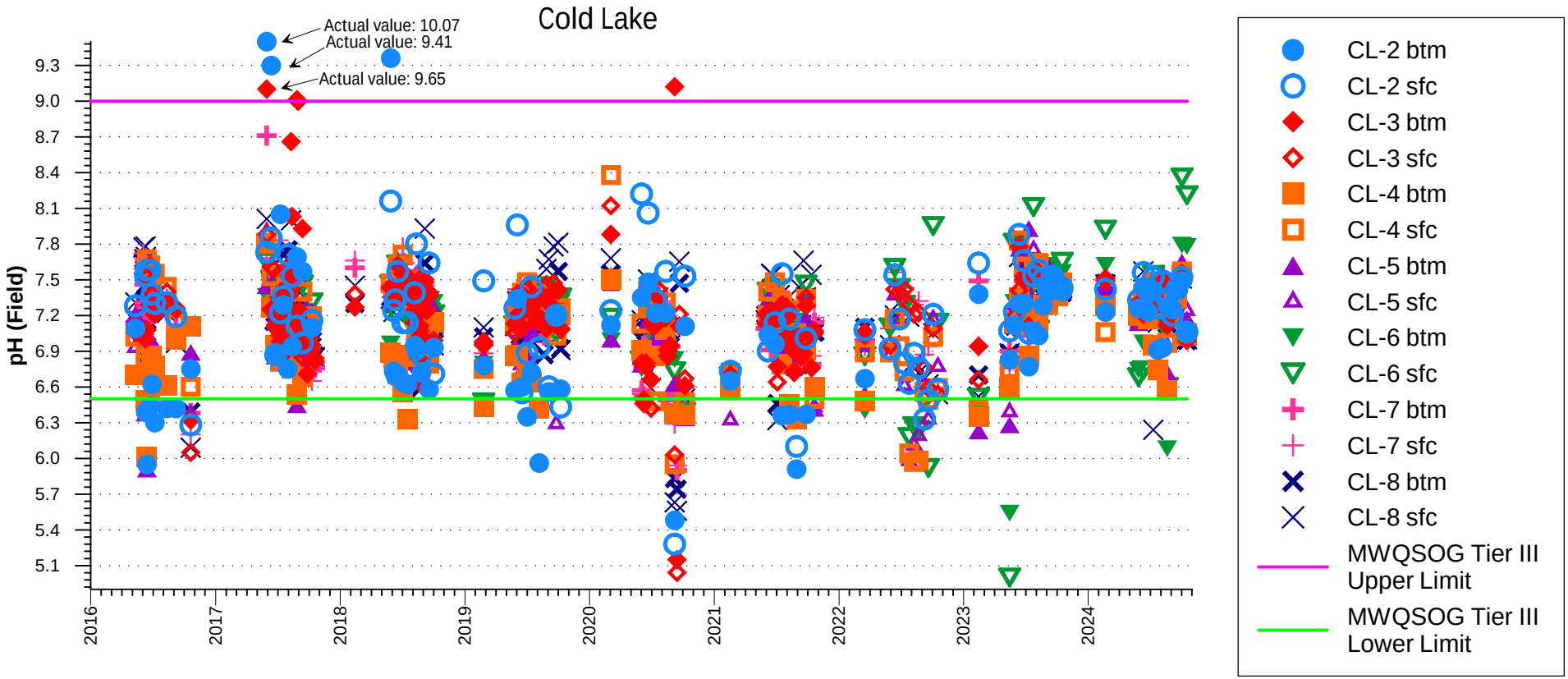
REVISIONS / ISSUE

KGS GROUP Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE MIXING ZONE VS. CAMP LAKE DISCHARGE
FIELD pH (2016 - 2024)

JUNE 2025 | FIGURE 24 | REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

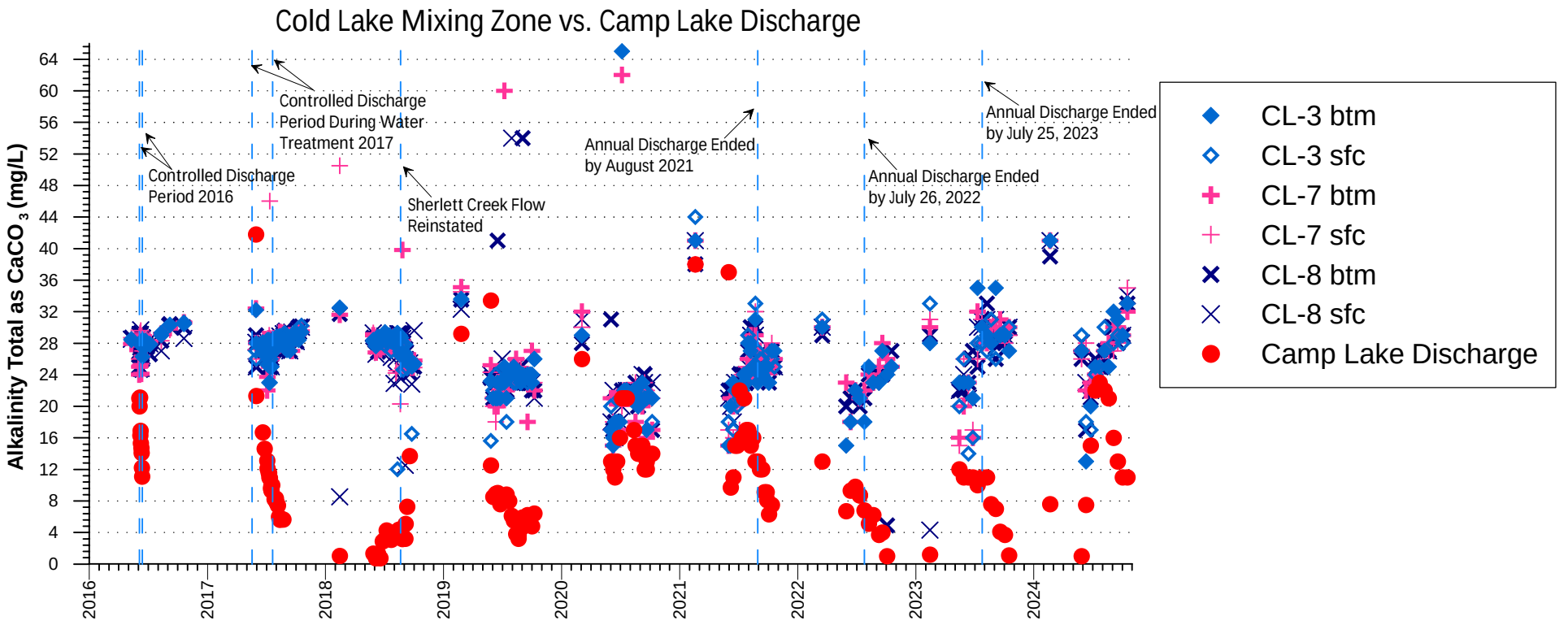
REVISIONS / ISSUE

KGS GROUP Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE — FIELD pH (2016 - 2024)

JUNE 2025	FIGURE 25	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

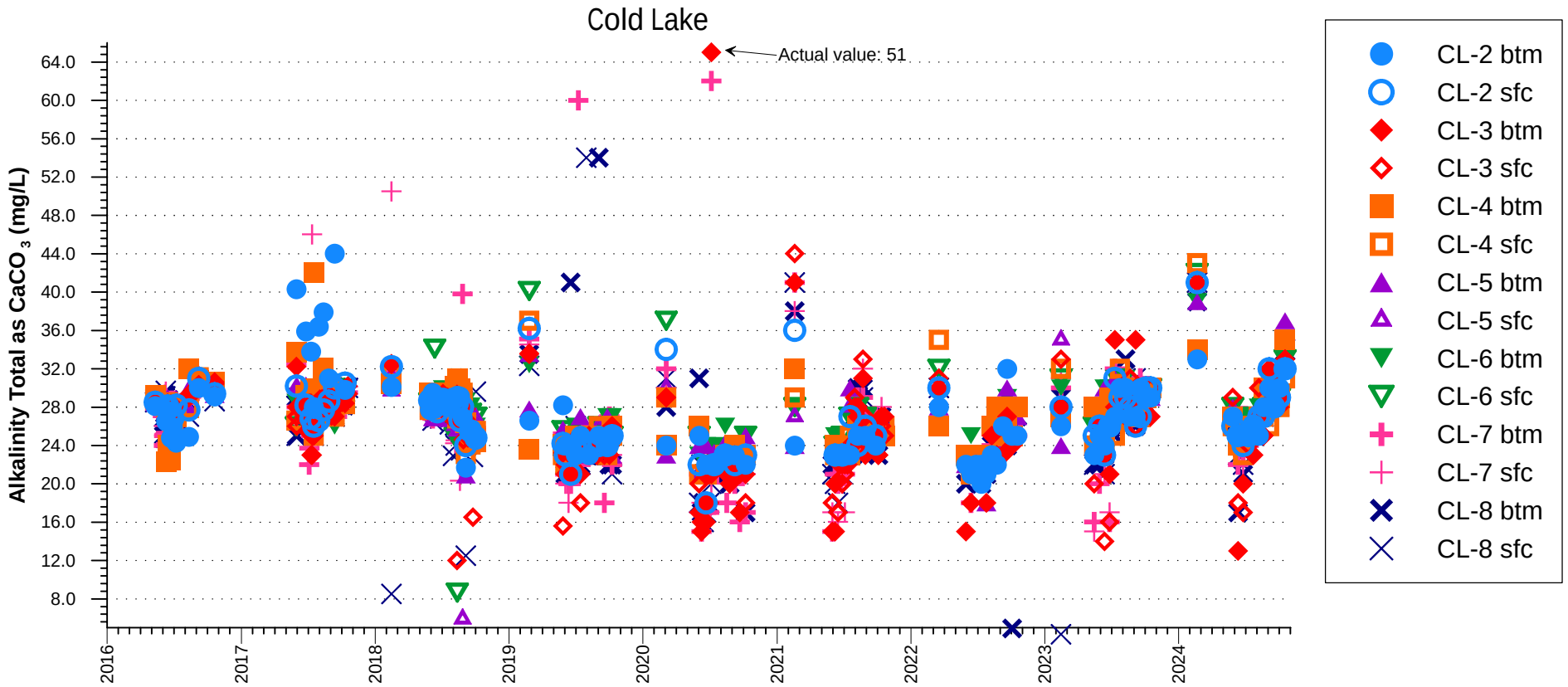
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE MIXING ZONE VS. CAMP LAKE DISCHARGE
TOTAL ALKALINITY (2016 - 2024)

JUNE 2025	FIGURE 26	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

KGS GROUP

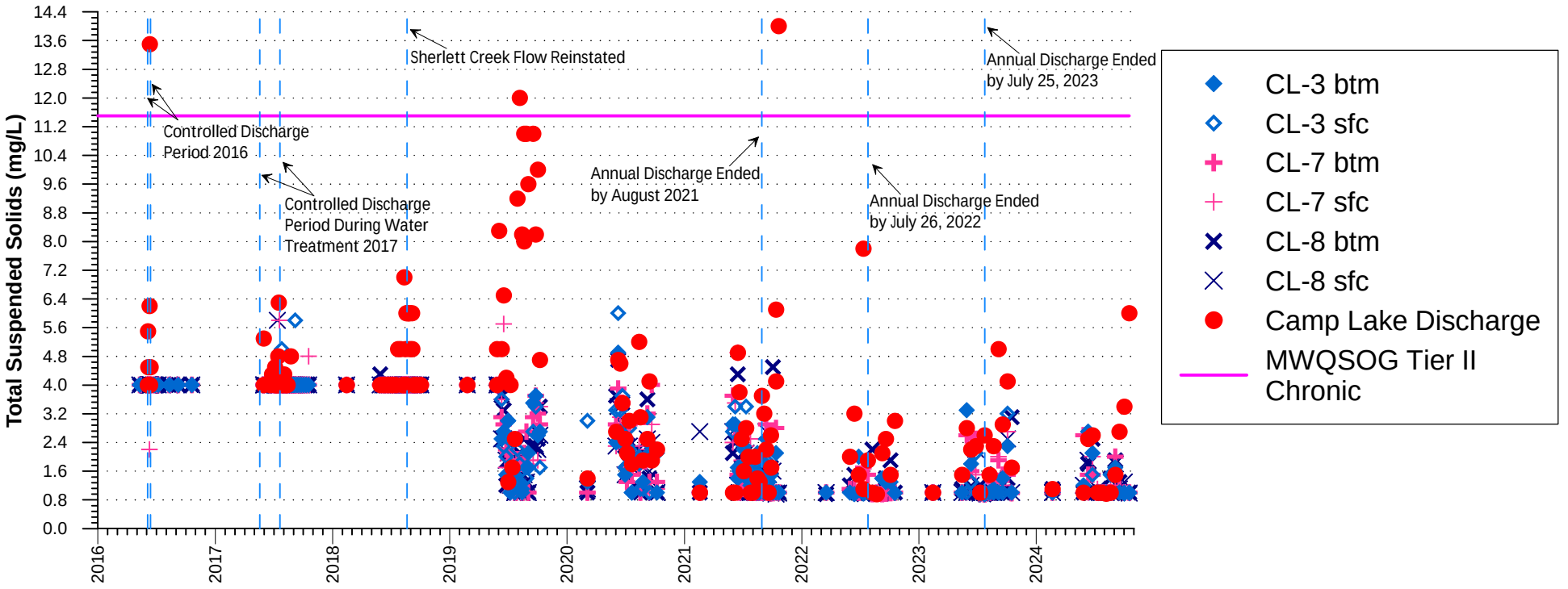
Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE — TOTAL ALKALINITY
(2016 - 2024)

JUNE 2025 | FIGURE 27 | REV. 0

Cold Lake Mixing Zone vs. Camp Lake Discharge



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

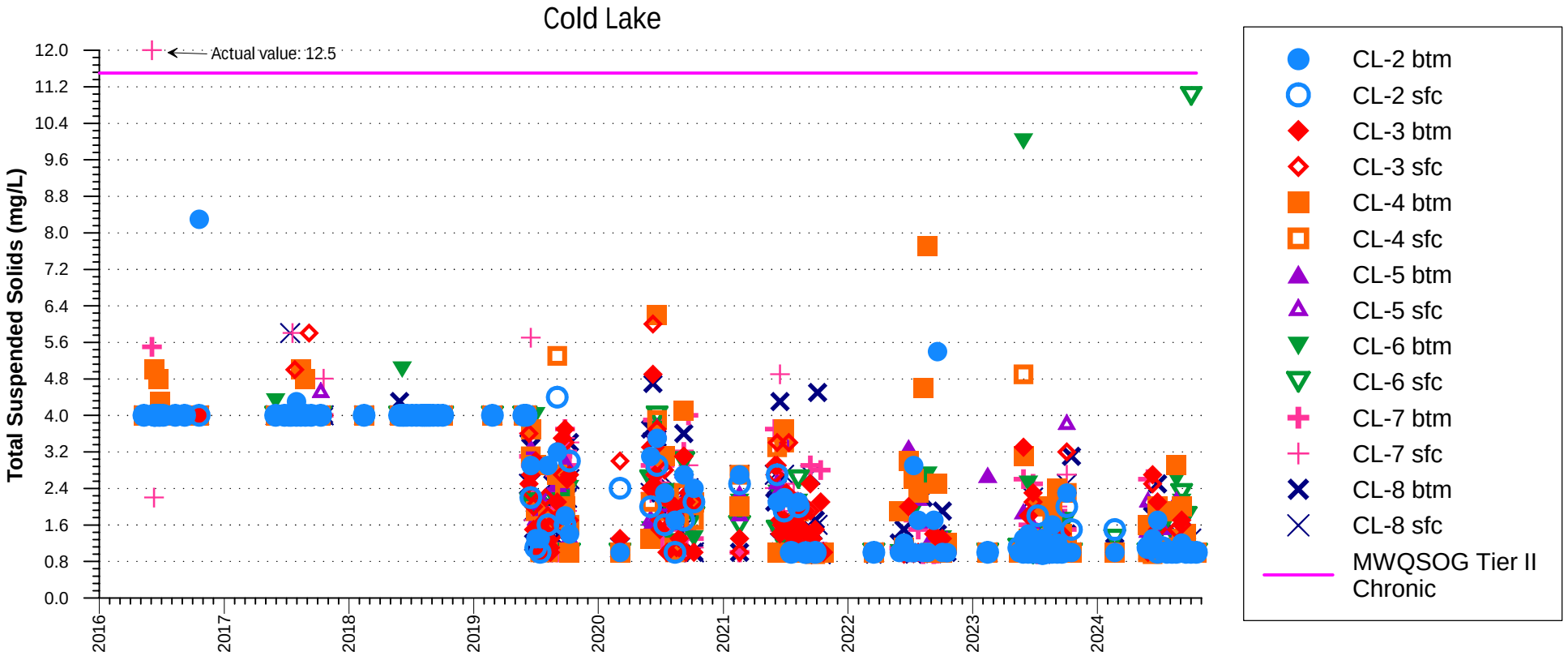
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE MIXING ZONE VS. CAMP LAKE DISCHARGE
TOTAL SUSPENDED SOLIDS (2016 - 2024)

JUNE 2025	FIGURE 28	REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

KGS GROUP

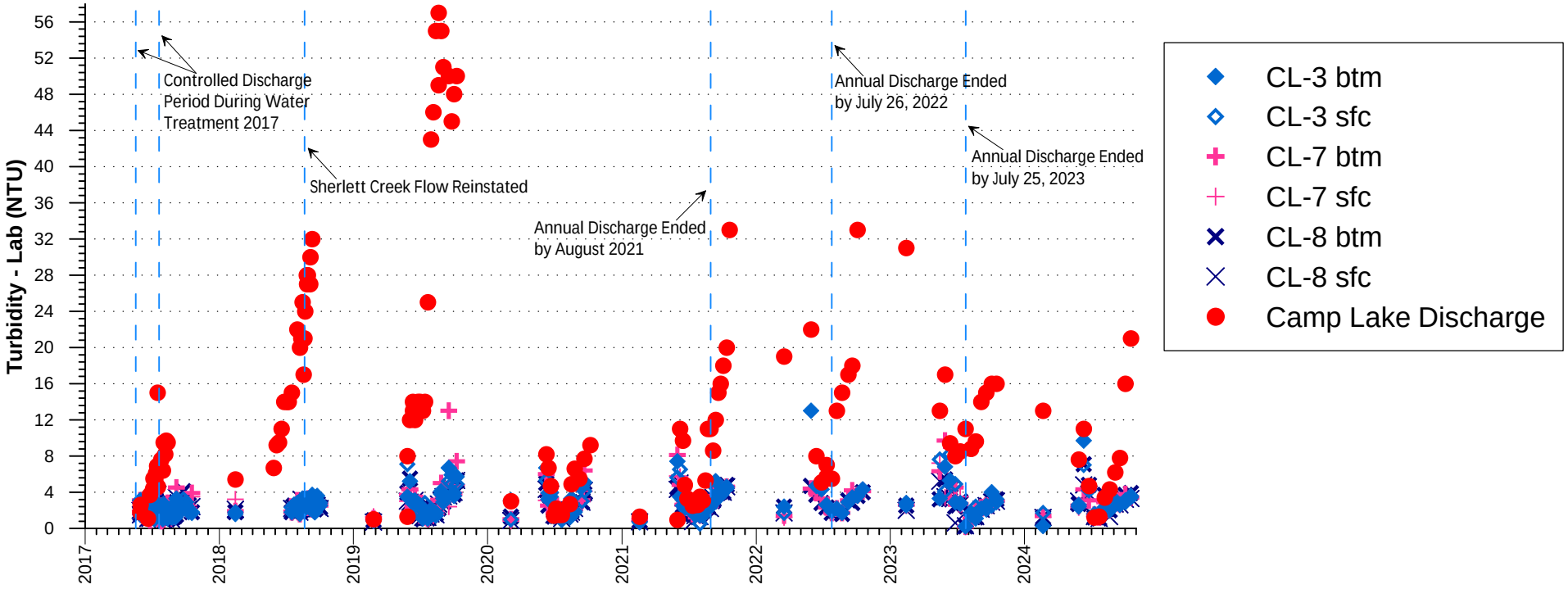
Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE — TOTAL SUSPENDED SOLIDS (2016 - 2024)

JUNE 2025	FIGURE 29	REV: 0

Cold Lake Mixing Zone vs. Camp Lake Discharge



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

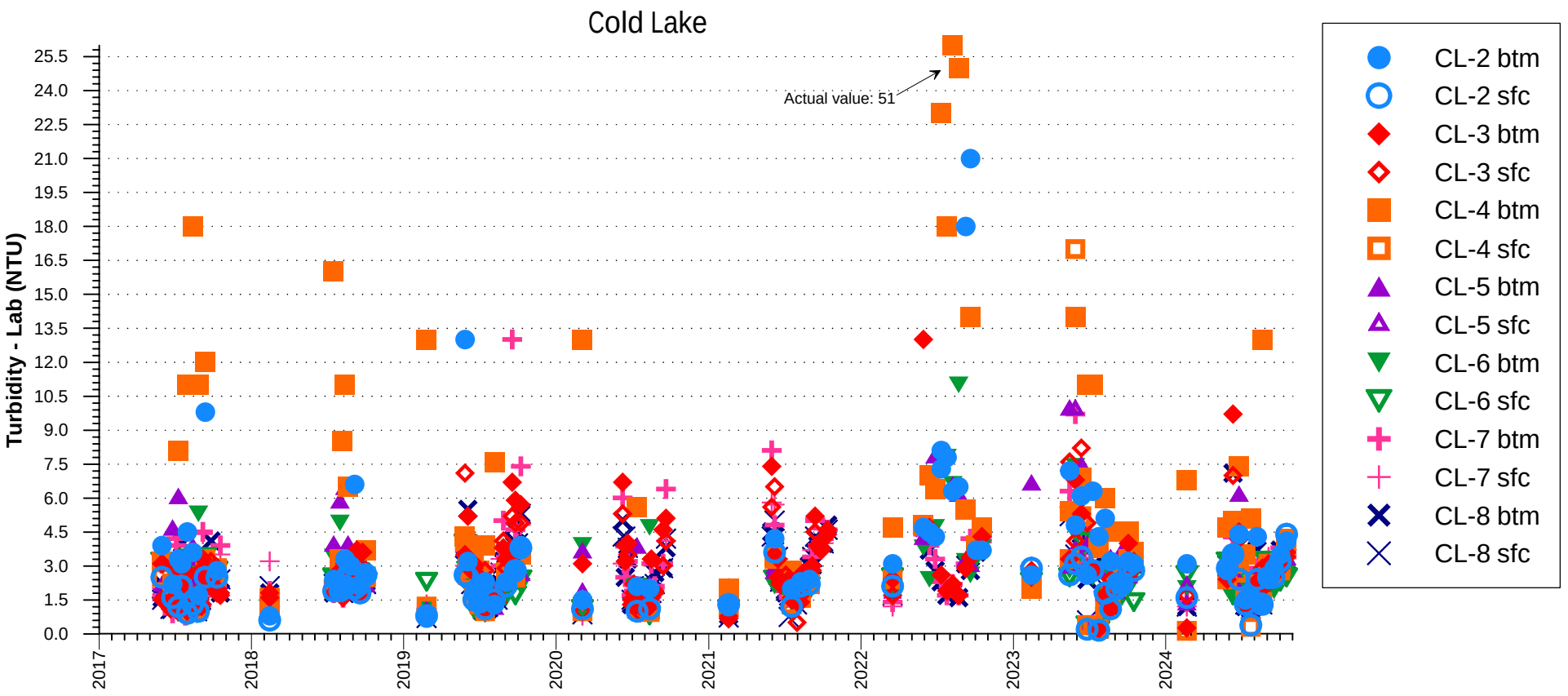
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE MIXING ZONE VS. CAMP LAKE DISCHARGE
LAB TURBIDITY (2017 - 2024)

JUNE 2025	FIGURE 30	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

KGS GROUP

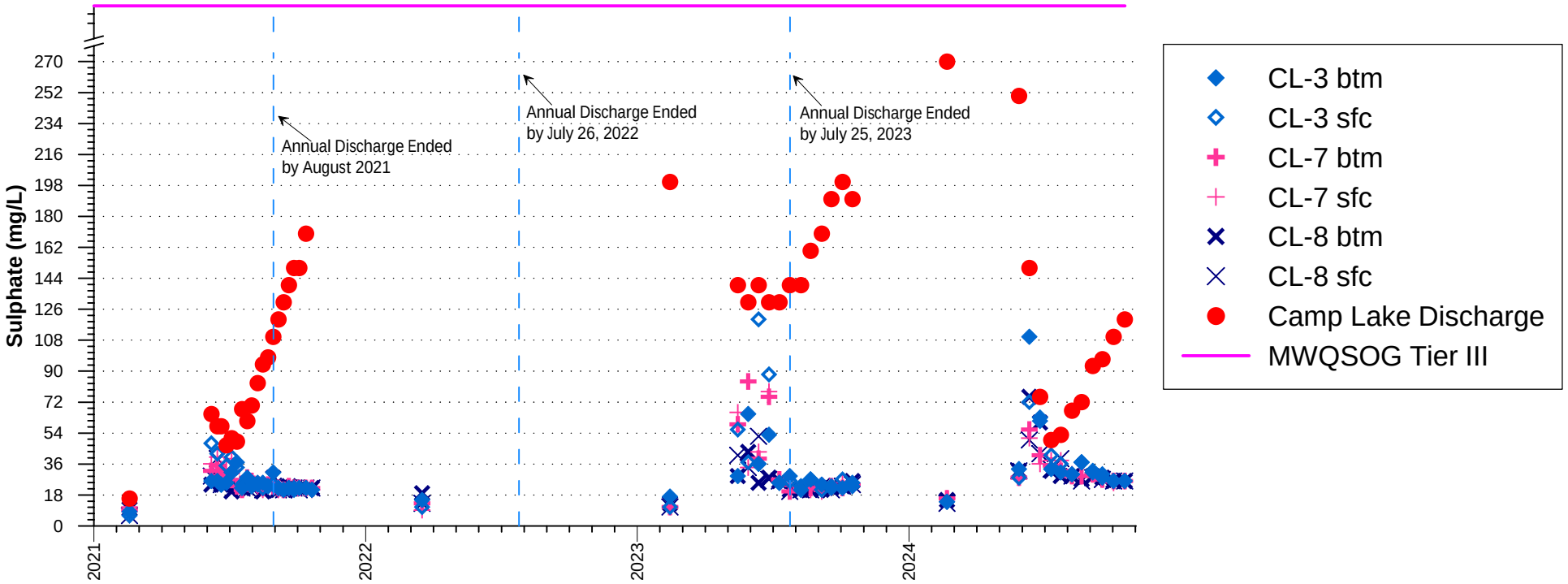
Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE — LAB TURBIDITY (2017 - 2024)

JUNE 2025	FIGURE 31	REV. 0

Cold Lake Mixing Zone vs. Camp Lake Discharge



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

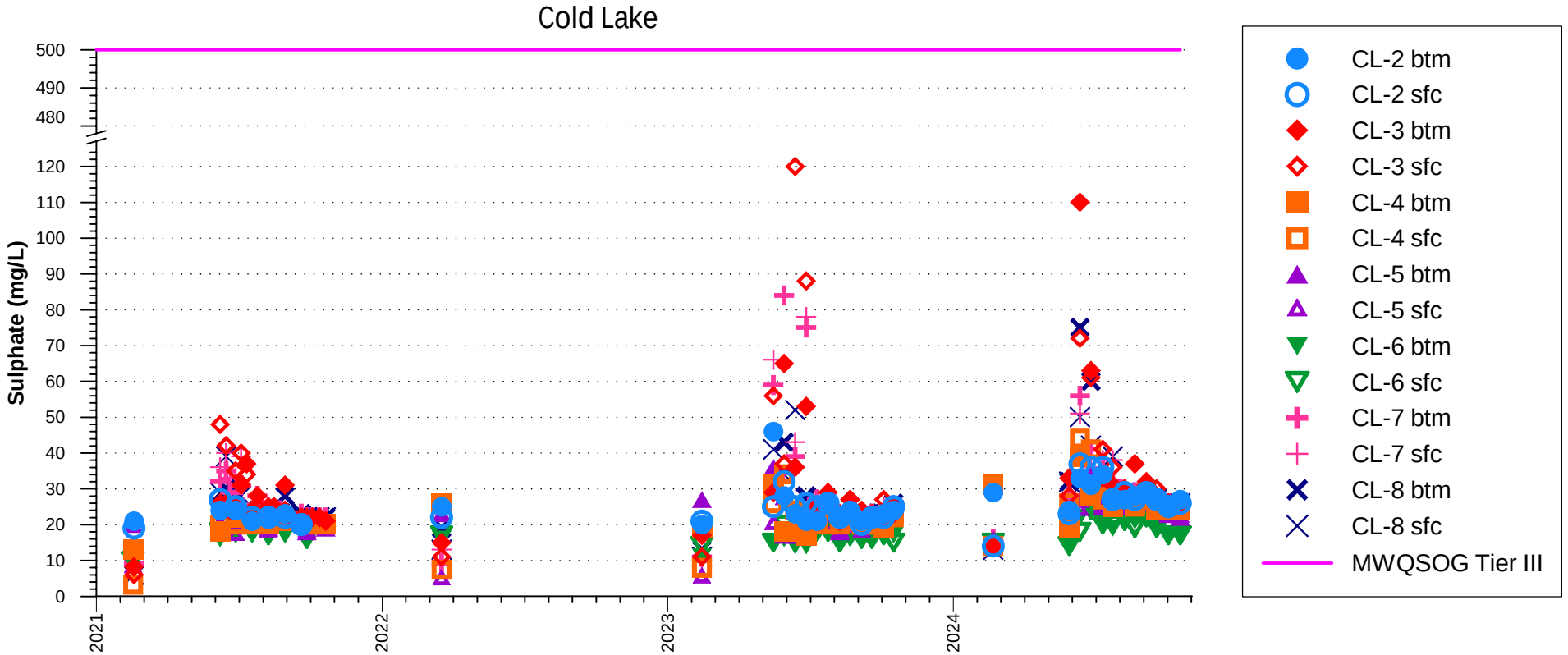
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE MIXING ZONE VS. CAMP LAKE DISCHARGE SULPHATE (2021 - 2024)

JUNE 2025 | FIGURE 32 | REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

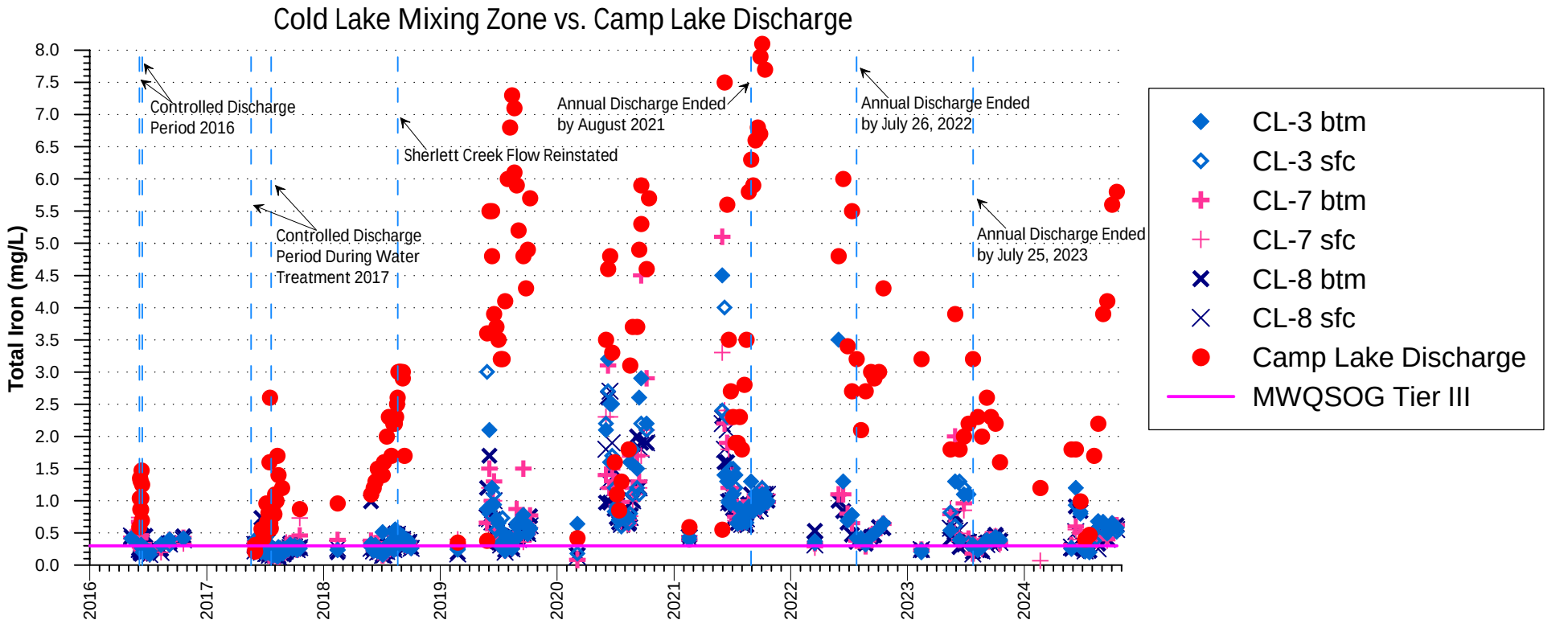
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE — SULPHATE (2021 - 2024)

JUNE 2025 | FIGURE 33 | REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

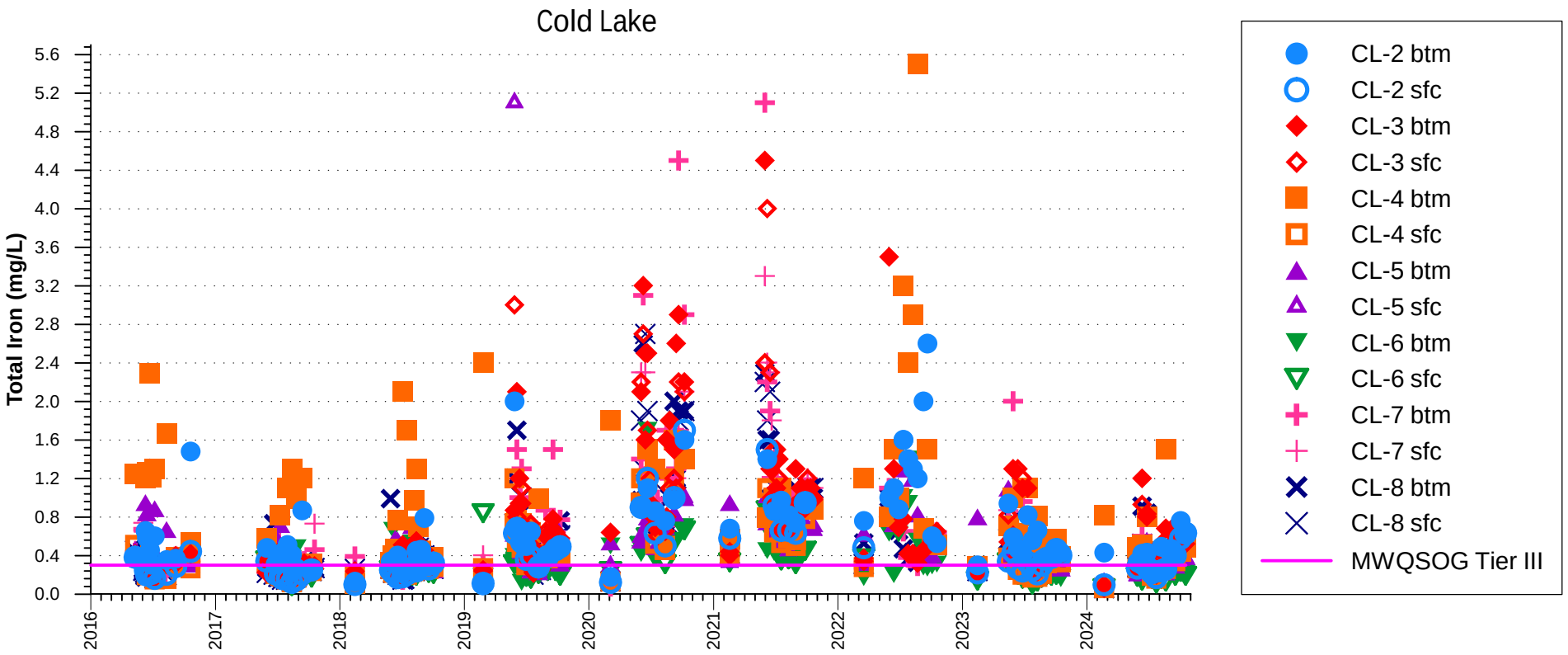
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE MIXING ZONE VS. CAMP LAKE DISCHARGE
TOTAL IRON (2016 - 2024)

JUNE 2025	FIGURE 34	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

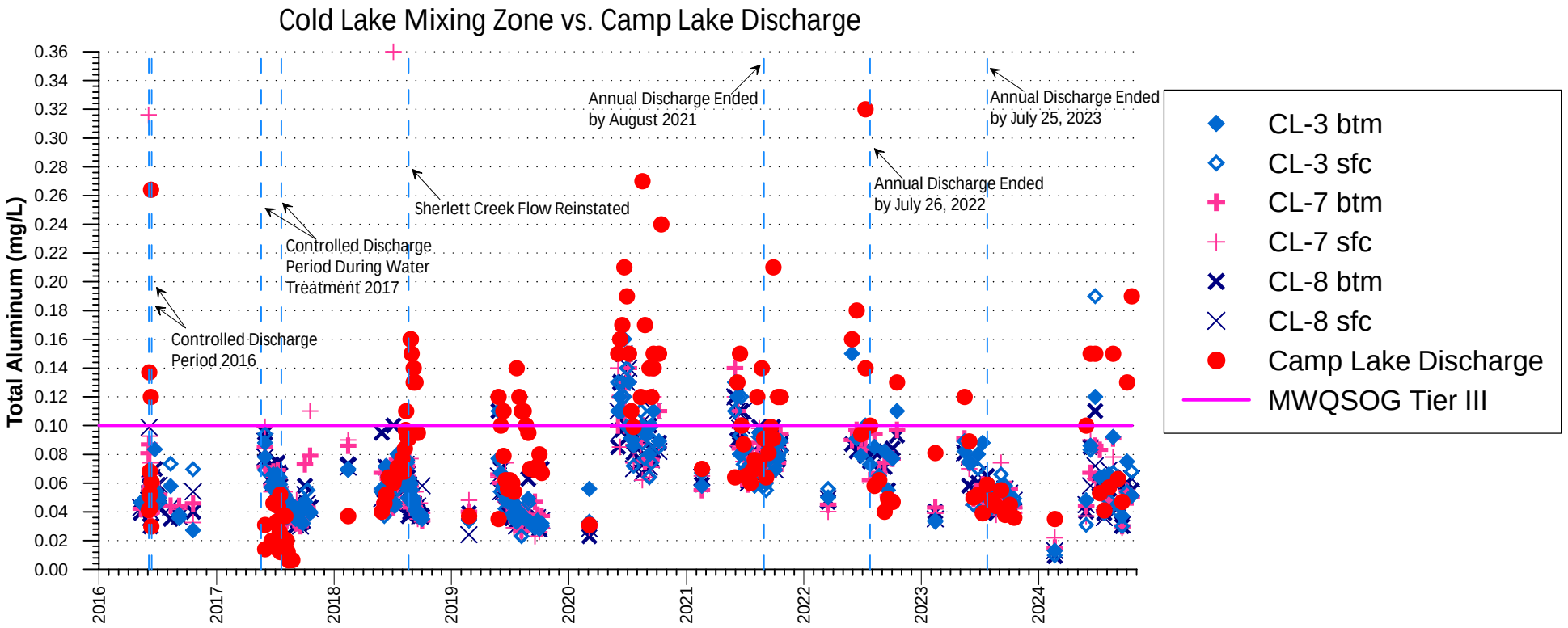
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE — TOTAL IRON (2016 - 2024)

JUNE 2025 | FIGURE 35 | REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

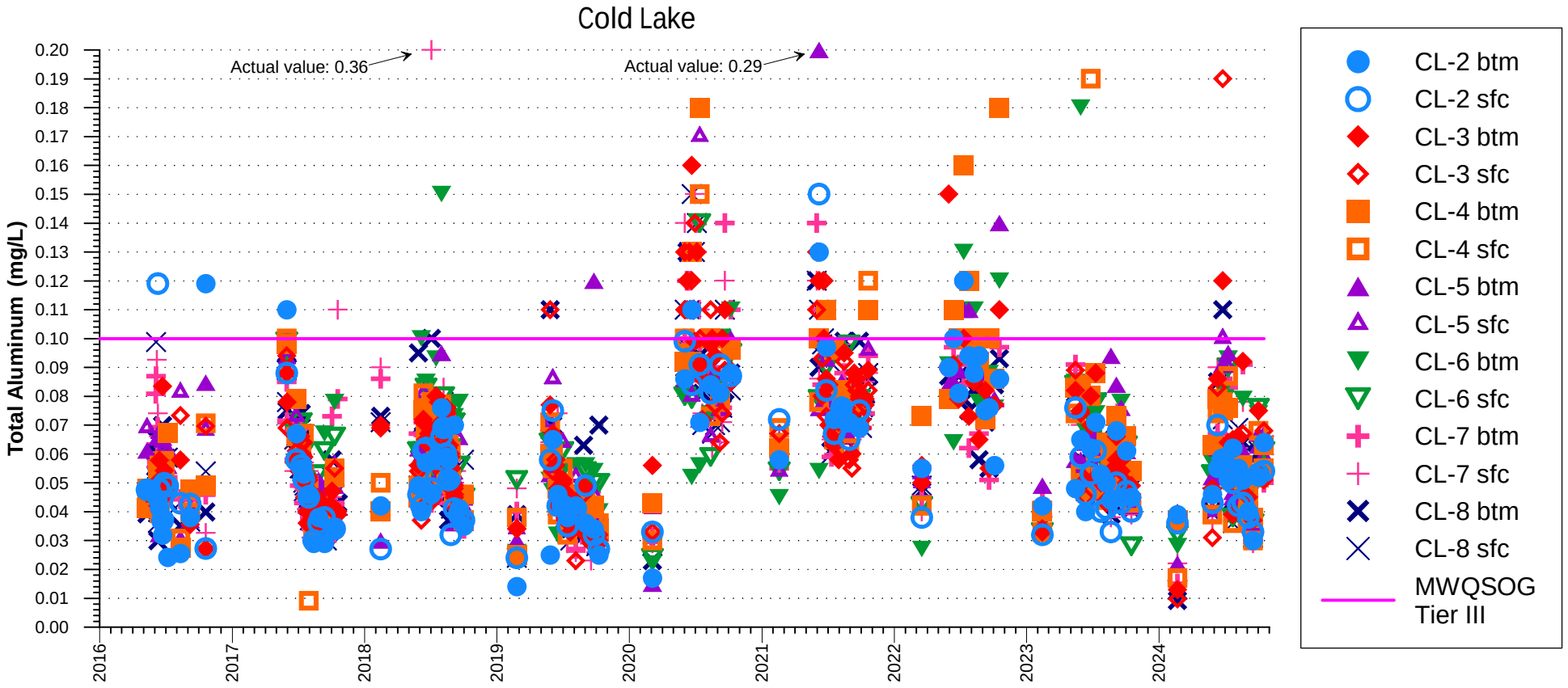
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE MIXING ZONE VS. CAMP LAKE DISCHARGE
TOTAL ALUMINUM (2016 - 2024)

JUNE 2025	FIGURE 36	REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

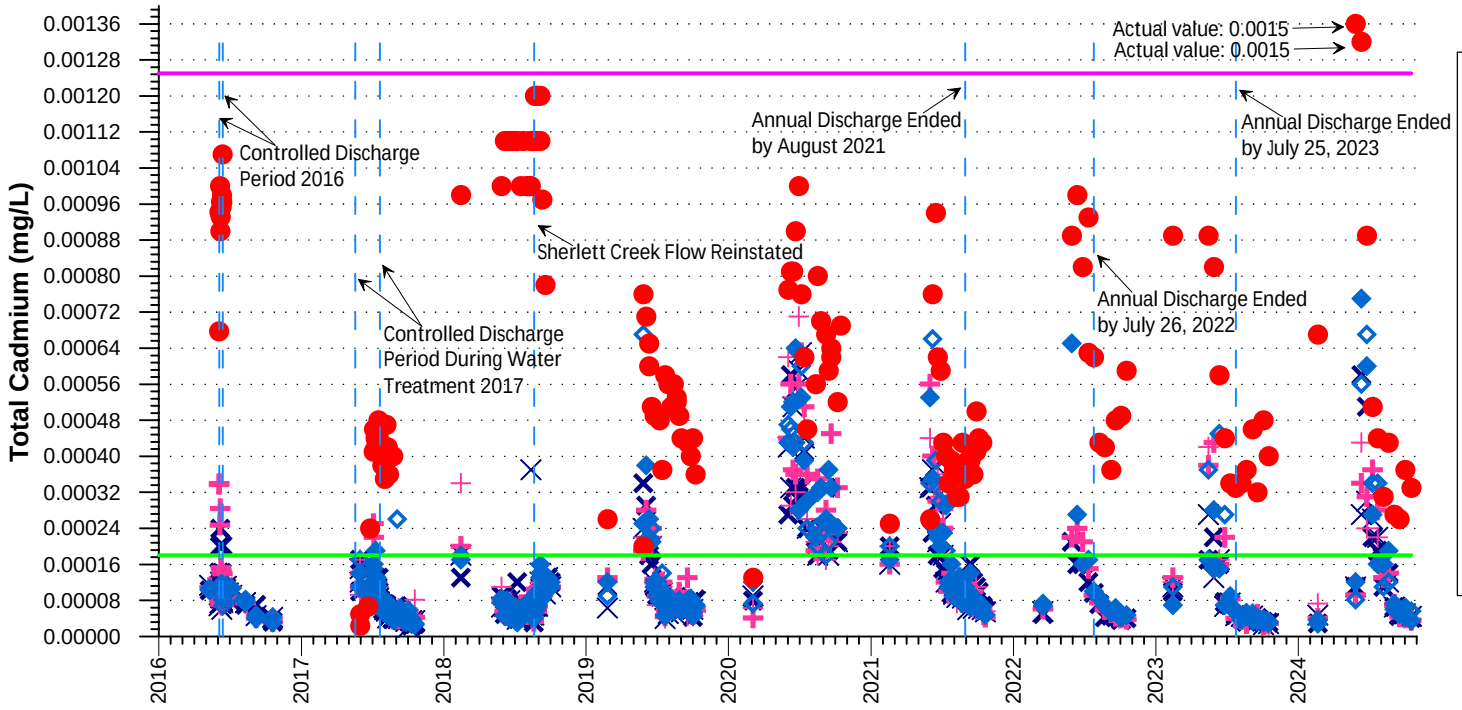
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE — TOTAL ALUMINUM (2016 - 2024)

JUNE 2025 | FIGURE 37 | REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

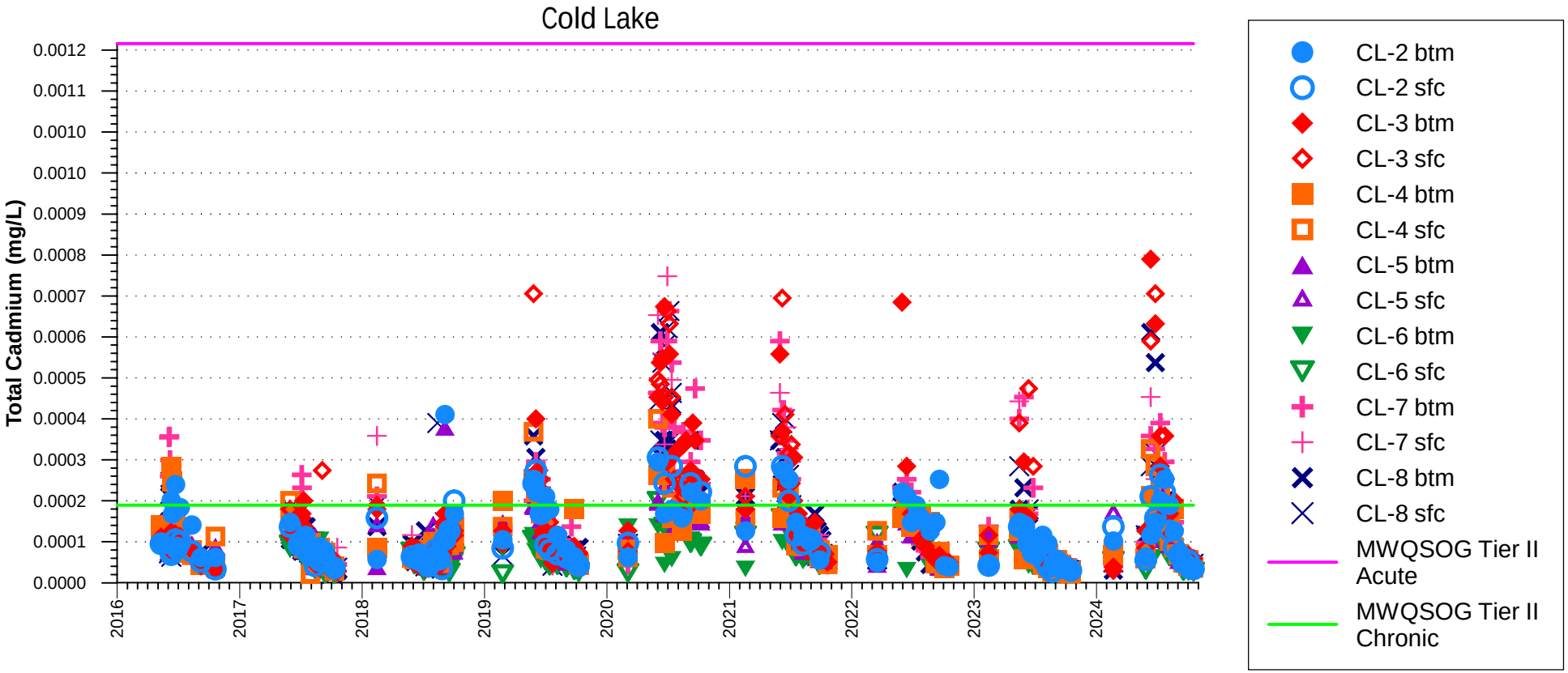
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE MIXING ZONE VS. CAMP LAKE DISCHARGE
TOTAL CADMIUM (2016 - 2024)

JUNE 2025	FIGURE 38	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

KGS GROUP

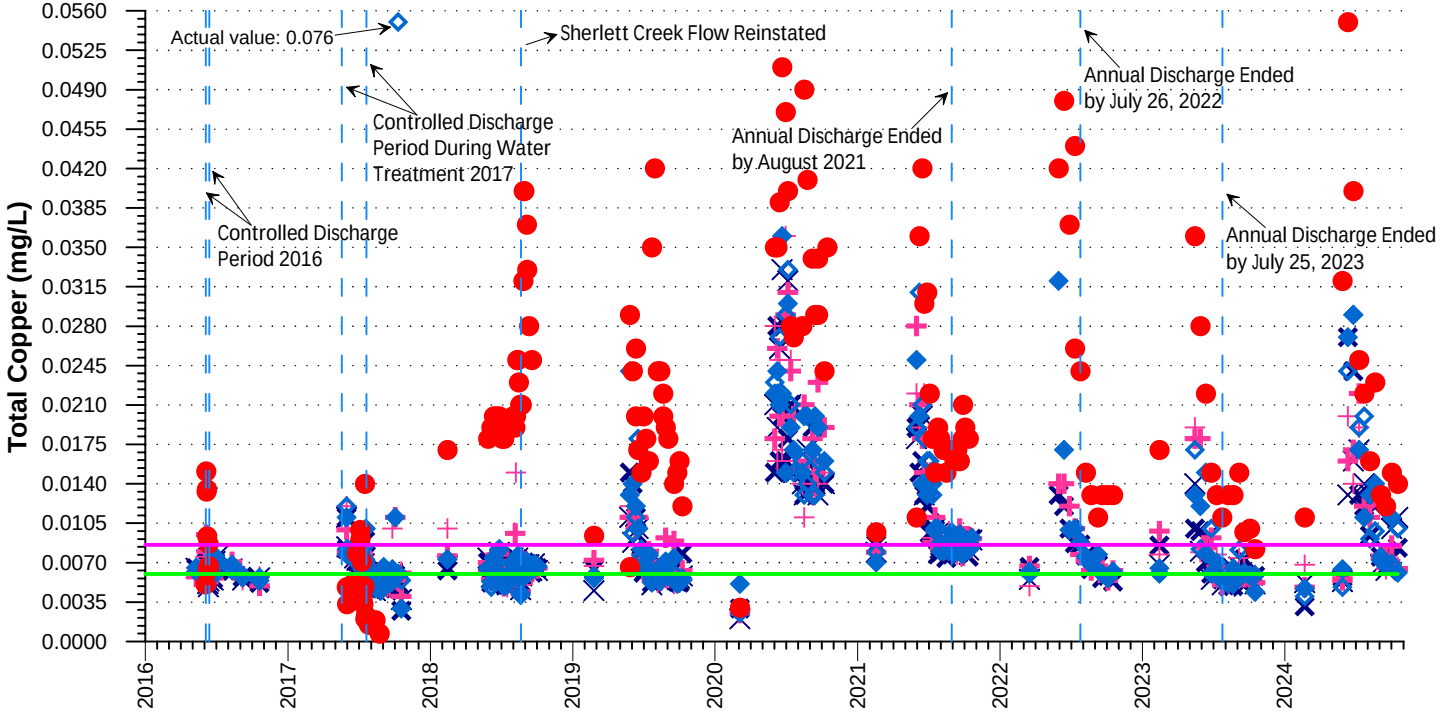
Manitoba

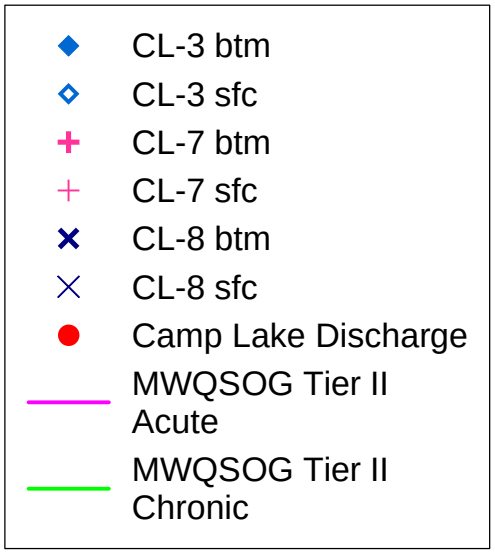
2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE — TOTAL CADMIUM (2016 - 2024)

JUNE 2025 | FIGURE 39 | REV. 0

Cold Lake Mixing Zone vs. Camp Lake Discharge





NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

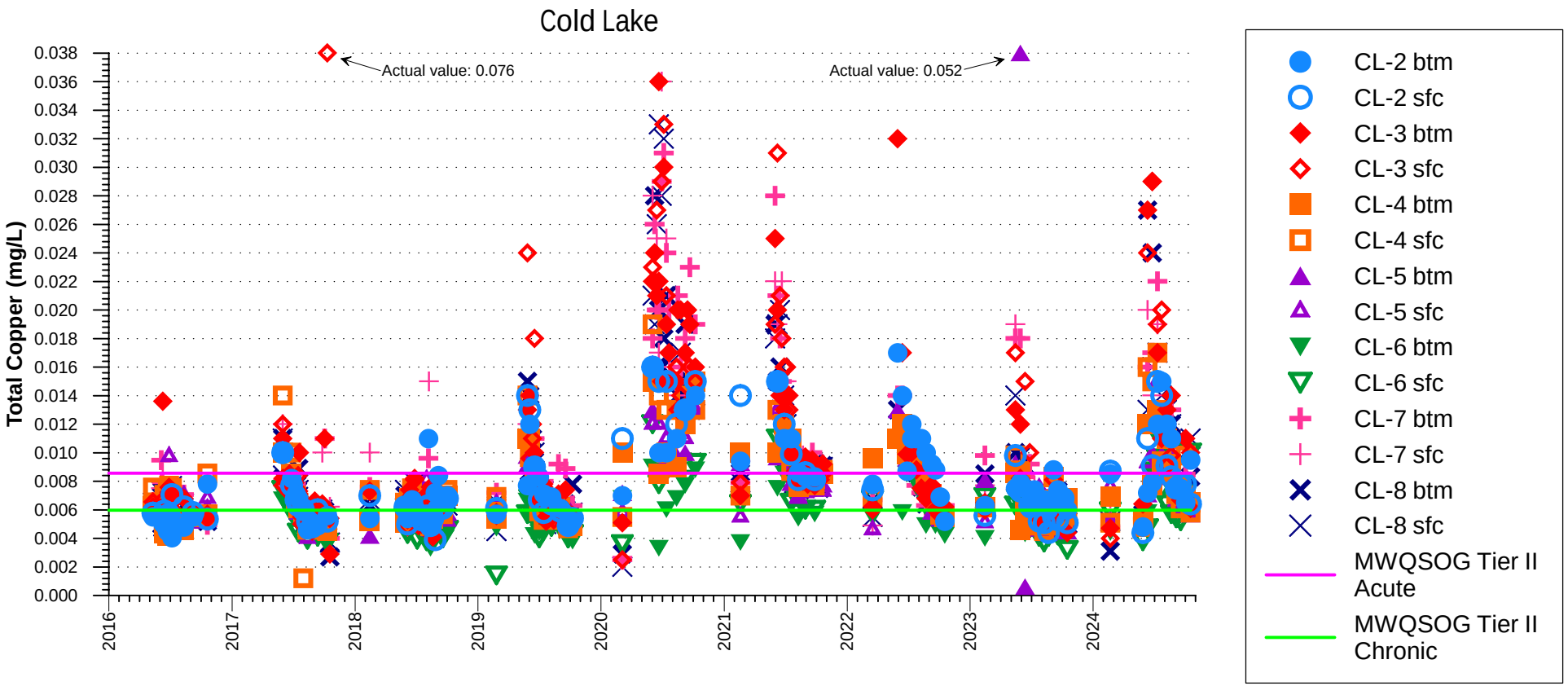
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE MIXING ZONE VS. CAMP LAKE DISCHARGE
TOTAL COPPER (2016 - 2024)

JUNE 2025	FIGURE 40	REV: 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

KGS GROUP

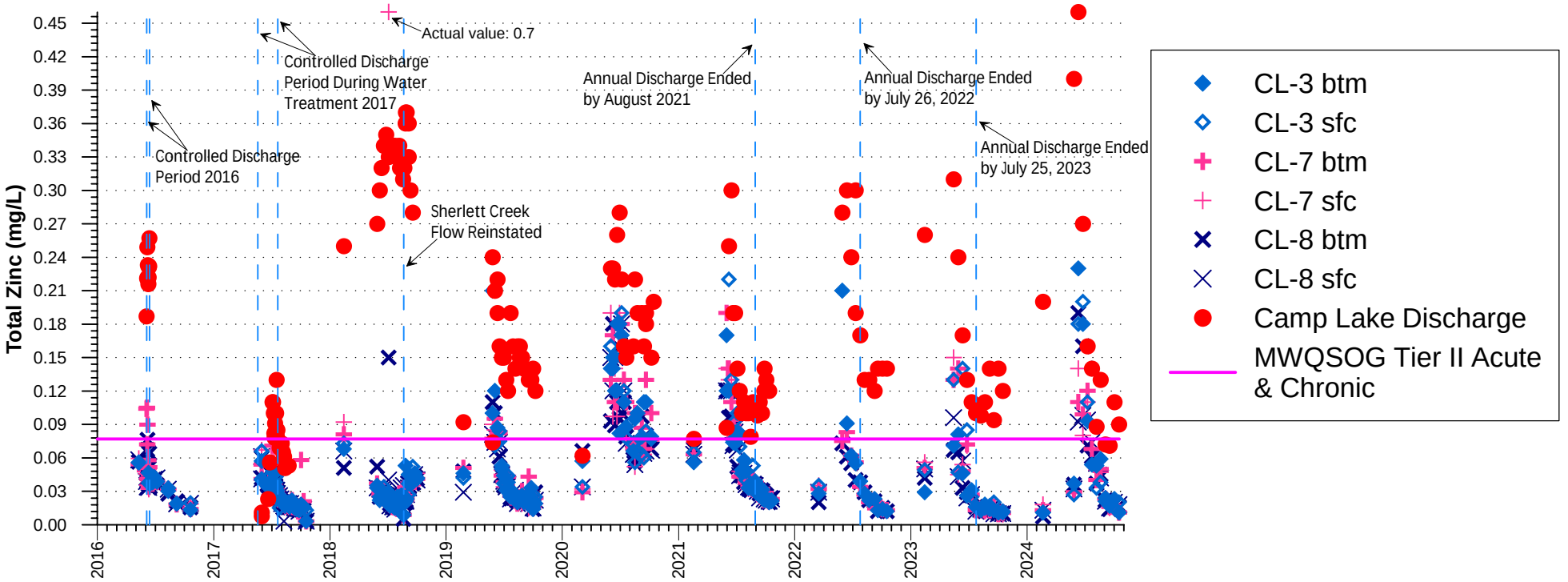
Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE — TOTAL COPPER (2016 - 2024)

JUNE 2025 | FIGURE 41 | REV: 0

Cold Lake Mixing Zone vs. Camp Lake Discharge



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

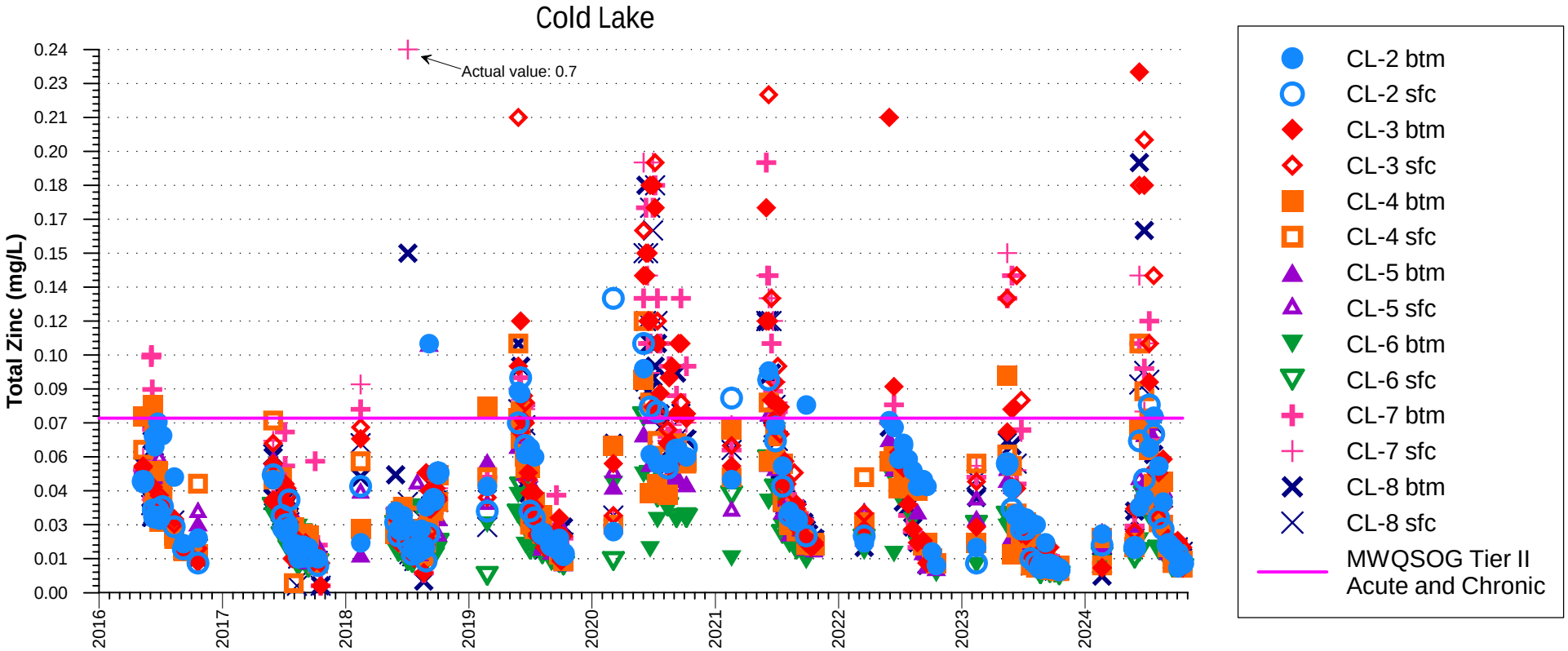
KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE MIXING ZONE VS. CAMP LAKE DISCHARGE
TOTAL ZINC (2016 - 2024)

JUNE 2025	FIGURE 42	REV. 0



NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
0	25/06/30	ISSUED WITH FINAL REPORT	RED	EC

REVISIONS / ISSUE

KGS GROUP

Manitoba

2024 WATER QUALITY SUMMARY REPORT
SHERRIDON MINE SITE

COLD LAKE — TOTAL ZINC (2016 - 2024)

JUNE 2025	FIGURE 43	REV. 0

APPENDIX A

Sherridon Adaptive Management Plan

Sherridon Mine Orphan Mine Site Reclamation Project: Adaptive Mgmt. Plan

400-161 Portage Avenue East
Winnipeg, MB R3B 0Y4
Tel +1-204-954-6800

TETRA TECH

Sherridon Orphan Mine Site Reclamation Project: Adaptive Management Plan

705-0924010300-REP-G0001-00
August 2022

PRESENTED TO

Manitoba Environment, Climate and Parks
Environmental Programs and Remediation
200 Saulteaux Cres. Box 38
Winnipeg, MB R3J 3W3

PRESENTED BY

Tetra Tech Canada Inc. P +1-204-954-6800
400-161 Portage Ave E.
Winnipeg, MB R3B 0Y4 tetratech.com

Prepared by:

FILE: 705-0924010300-REP-G0001-00
FILE: 705-0924010300-REP-G0001-00

Jennifer Wilson, H.B.Sc., R.P.F.
Senior Environmental Scientist

August 16, 2022
Date

FILE: 705-0924010300-REP-G0001-00
FILE: 705-0924010300-REP-G0001-00

Doug Ramsey, M.Sc., R.P.Bio.
Senior Aquatic Scientist

August 16, 2022
Date

Authorized by:

FILE: 705-0924010300-REP-G0001-00
FILE: 705-0924010300-REP-G0001-00

Jennifer Wilson, H.B.Sc., R.P.F.,
Project Manager

August 16, 2022
Date

LIMITATIONS OF REPORT

This report and its contents are intended for the sole use of the Province of Manitoba and their agents. Tetra Tech Canada Inc. (Tetra Tech) does not accept any responsibility for the accuracy of any of the data, the analysis, or the recommendations contained or referenced in the report when the report is used or relied upon by any Party other than the Province of Manitoba, or for any Project other than the proposed development at the subject site. Any such unauthorized use of this report is at the sole risk of the user. Use of this document is subject to the Limitations on the Use of this Document attached in the Appendix or Contractual Terms and Conditions executed by both parties.

EXECUTIVE SUMMARY

The Sherridon Orphaned Mine Site is located on the east shore of Camp Lake, approximately 65 km northeast of Flin Flon, Manitoba. The copper-zinc mine was operated by Sherritt Gordon Mines between 1928 and 1952. The communities of Cold Lake and Sherridon developed in the early 20th century in conjunction with development and operation of the Sherridon Mine. The mine site is since abandoned and is now the responsibility of the Province of Manitoba (the Province).

The Province commissioned a reclamation plan and associated design for the site in 2006. The design study recommended tailings relocation in combination with flooding as the preferred option for site reclamation. The reclamation plan included the relocation of 47 hectares of land-based tailings into Camp Lake. Construction associated with the Sherridon Orphan Mine Reclamation Project (the Project) began in 2009 and was completed in early September 2021.

Adaptive management is a means of assessing, managing, and planning for uncertainties associated with a particular project or program. This draft Adaptive Management Plan (AMP) has been developed to describe the framework used by the Province for identification of unanticipated adverse project effects as well as for monitoring and managing project uncertainties. The AMP identifies linkages between management plans and monitoring programs and defines how results from environmental monitoring programs will contribute to the adaptive management process. This process provides a means of identifying changes in the environment as a result of the project that fall outside of acceptable or expected thresholds to be addressed and mitigated. The AMP also provides a communications plan along with recommendations for communication frequency based on project performance.

The Sherridon Project AMP has been developed to cover the remaining two project phases: i.) post-construction transition; and ii.) final closure. The primary project components requiring monitoring during these two phases include:

- Water quality
- Camp Lake water level
- Adaptive Monitoring Requirements (Sampling Frequency)
- Inspection and Maintenance of Built Structures

Decision flowsheets have been developed to assist in guiding the Province in managing these project components and proactively mitigating any challenges that may arise over the long-term. The decision flowsheets provide a simple, graphical, representation of how adaptive management decisions are made in response to project conditions that may develop. Colour coding of the flowsheet cells indicates the risk of the indicated project condition to the aquatic environment and should also be used by the Province to communicate risk conditions and adaptive responses to project stakeholders.

TABLE OF CONTENTS

1 INTRODUCTION 1
2 PROJECT BACKGROUND 2
3 RECLAMATION PLAN 4
3.1 Plan Objectives 4
3.2 Plan Development 4
3.3 Environmental Monitoring 5
3.3.1 Pre-Project 5
3.3.2 Construction Phase 5
3.3.3 Sampling Locations 6
3.3.4 Program Adaptation 7
3.3.5 Reporting 7
3.4 Plan Performance To Date 10
3.5 Anticipated Future Outcomes 10
4 ADAPTIVE MANAGEMENT 11
4.1 Water Quality 11
4.1.1 Management Concerns 11
4.1.2 Management Thresholds 12
4.1.3 Management Actions 13
4.1.4 Applicable Decision Flowsheets 14
4.2 Water Level/Cover 14
4.2.1 Management Concerns 14
4.2.2 Management Thresholds 14
4.2.3 Management Actions 14
4.2.4 Applicable Decision Flowsheets 15
4.3 Adaptive Monitoring Requirements 15
4.3.1 Management Concerns 15
4.3.2 Management Thresholds 15
4.3.3 Management Actions 15
4.3.4 Applicable Decision Flowsheets 16
4.4 Inspection and Maintenance of Built Structures 16
4.4.1 Management Concerns 16
4.4.2 Management Thresholds 16

4.4.3 Management Actions 16
4.4.4 Applicable Decision Flowsheets 17
5 PROJECT COMMUNICATIONS 18
6 REFERENCES 20

LIST OF TABLES

Table 1 Sherridon Orphan Mine Reclamation Project water quality sampling station GPS locations (UTM Zone 14). 9
Table 2. Proposed Post-construction Camp Lake Water Quality Performance Objectives to be achieved within 4 years following completion of construction. 13

LIST OF FIGURES

Figure 1 Framework for Adaptive Management. 1
Figure 2 Location of the Sherridon Orphan Mine in Manitoba. 3
Figure 3 Sherridon Orphan Mine Project water quality monitoring stations. 8

APPENDICES

Appendix A Sherridon Orphan Mine Reclamation Project Timeline.
Appendix B Reclamation Plan Design Overview
Appendix C Reclamation Plan Modifications
Appendix D Sherridon Water Quality Key Parameters and Water Quality Objectives
Appendix E DJRC (2021b) – Post-construction Water Quality Performance Objectives
Appendix F Decision Flowsheets and Colour Coding Definition
Appendix G Sample Communications Log

ACRONYMS/ABBREVIATIONS

Acronyms/Abbreviations	Definition
AMP	Adaptive Management Plan
ARD	Acid Rock Drainage
CEAA	Canadian Environmental Assessment Agency
CL	Cold Lake
CB	Central Basin (Camp Lake)
DFO	Fisheries and Oceans Canada
EB	East Basin (Camp Lake)
ECCC	Environment and Climate Change Canada
EOR	Engineer of Record
ha	Hectare
HHERA	Human Health and Ecological Risk Assessment
IAA	Impact Assessment Agency of Canada
INAP	International Network for Acid Prevention
km^2	Square Kilometer
m	Meter
masl	Meters Above Sea Level
MECP	Manitoba Environment, Climate and Parks
MDMER	Metal and Diamond Mining Effluent Regulations
MEND	Mine Environment Neutral Drainage Program – a collaboration of the federal government and the Mining Association of Canada
MWQSOG	Manitoba Water Quality Standards, Objectives and Guidelines
NB	North Basin (Camp Lake)
NOAMI	National Orphaned/Abandoned Mines Initiative - a co-operative program guided by an advisory committee that brings together the mining industry, federal/provincial/territorial governments, environmental organizations and First Nations
OAM	Orphaned and Abandoned Mines
the Project	Sherridon Orphan Mine Reclamation Project
SC	Sherlett Creek
SCC	Sherridon Community Council
SB	South Basin (Camp Lake)
the Province	Province of Manitoba
TSS	Total Suspended Solids

1 INTRODUCTION

Adaptive Management is a means of assessing, managing, and planning for uncertainties associated with a particular project or program. The general process for adaptive management begins with a problem followed by an assessment of alternative means of managing that problem, and ultimately selecting the solution (Figure 1). The next step is solution design, followed by implementation. Monitoring is a key component of the adaptive process because the monitoring findings ultimately determine if any adjustment (or replacement) of the solution, or restatement of the problem are required.

The Sherridon Orphaned Mine Reclamation Project (the "Project") has employed adaptive management since project construction began. Going forward, this document formalizes and describes the framework for identification of unanticipated adverse project effects as well as for monitoring and managing project uncertainties. The AMP also provides the structure for communication between the Province and communities/stakeholders.

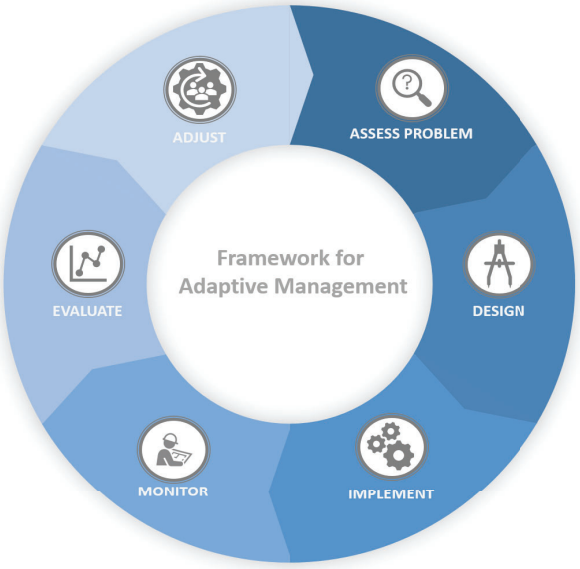


Figure 1 Framework for Adaptive Management.

The AMP includes a Monitoring Program Framework, project-specific water quality performance objectives, and an Adaptive Management Response Framework. The AMP identifies linkages between management plans and monitoring programs and defines how results from environmental monitoring programs will contribute to the adaptive management process. This process provides a means of identifying changes in the environment as a result of the project that fall outside of acceptable or expected thresholds to be addressed and mitigated.

Now that the construction phase of the project is complete, the Sherridon Project AMP has been developed to cover the two remaining project phases: the post-construction or transition phase (approx. 2022-2026) and final closure (2026+).

2 PROJECT BACKGROUND

The Sherridon Orphaned Mine Site is located on the east shore of Camp Lake, approximately 65 km northeast of Flin Flon, Manitoba (Figure 2). The copper-zinc mine was operated by Sherritt Gordon Mines between 1928 and 1952. The communities of Cold Lake and Sherridon developed in the early 20th century in conjunction with development and operation of the Sherridon Mine. The mine site is since abandoned and is now the responsibility of the Province of Manitoba.

The Province commissioned a reclamation plan and associated design for the site in 2006. The design study recommended tailings relocation in combination with flooding as the preferred option for site reclamation. The reclamation plan included the relocation of 47 hectares (ha) of land-based tailings into Camp Lake, which is known to effectively control acid rock drainage (ARD) from sulphide tailings and is a recognized best management practice (SRK 2005). This “sub-aqueous” tailings disposal method had already demonstrated specific effectiveness for the Sherridon sulphide tailings through the analysis of water from Fox Lake (adjacent to Camp Lake) in which tailings had been deposited during mining operations (Moncur et al. 2012). The objectives of the reclamation plan and additional detail are provided in Section 3.0.

Construction associated with the reclamation plan began in 2009 and was completed in early September 2021 (Appendix A). The bulk of the mine waste was relocated to Camp Lake between 2009 and 2012. Subsequent work focused on identifying and removing smaller quantities of residual mine waste from areas adjacent to Camp Lake and removal of the site access road, which was constructed from mine waste.

Figure 2 Location of the Sherridon Orphan Mine in Manitoba.

3 RECLAMATION PLAN

3.1 PLAN OBJECTIVES

The objectives for the Sherridon reclamation project were based on the findings of the Human Health and Ecological Risk Assessment (HHERA) completed in 2004 (UMA/SENES 2004). The HHERA determined that acid rock drainage originating from the tailings presented a significant ecological risk to aquatic life in Kississing Lake. Tailings dusting was identified as an important quality of life issue for the Community of Sherridon, requiring control, but was not found to be a risk to human health or the natural environment. No aspect of the project or its historical environmental effects was identified as a risk to human health (UMA/SENES 2004).

The reclamation objectives for the project were therefore threefold:

- Improve site safety
- Eliminate tailings dusting
- Control acid rock drainage from the Sherridon mine waste to prevent any further degradation of aquatic habitat in Kississing Lake

The Project was intended and designed to prevent further degradation of the environment related to historic mining operations. The Project was not intended or designed to return the site to pre-mining conditions. The scope of the reclamation Project did not extend to addressing historical effects on Kississing Lake, which, accordioning to UMA/SENES 2004, concluded that mine-related metals in soil, dust, drinking water, or diet (fish, berries, wildlife, etc.) were below levels where there would be a potential concern for human health.

3.2 PLAN DEVELOPMENT

The reclamation plan design for the Sherridon Orphan Mine Project was the product of a multi-step design and approval process in which six potentially applicable reclamation approaches were evaluated and compared, leading to recommendation of sub-aqueous disposal as the preferred approach. The plan, prepared by a team of three established and experienced engineering firms, was reviewed by Manitoba (Mines Branch), which also consulted with national and international agencies involved in managing acid rock drainage (e.g., MEND, NOAMI, INAP), and by the inter-departmental planning committee of the Manitoba government, which included representatives of all Provincial government departments and some federal departments and agencies (Fisheries and Oceans Canada (DFO), Environment Canada, and the Canadian Environmental Assessment Agency (now referred to as the Impact Assessment Agency)). Additional detail is provided in Appendix B.

All reclamation projects involve some changes to the initial plan as work proceeds. These changes often are a result of findings in the course of the work, since it is impossible to know in advance of the work everything that will be encountered during excavation and material relocation. The sub-aqueous disposal reclamation approach remains unchanged, but the execution approach has been modified several times to address requests from the community

(e.g., provision to maintain some flow down lower Sherlett Creek), decisions made by the contractor, and matters identified in the course of reclamation. These are further discussed in Appendix C.

3.3 ENVIRONMENTAL MONITORING

Environmental monitoring was a key element of the reclamation plan and will continue to be through the adaptive management phase. Water quality monitoring is the primary indicator of whether the project is continuing to function as designed or requires some form of further assessment or alteration.

3.3.1 Pre-Project

A baseline environmental study was conducted to document environmental conditions in Kississing Lake in the 2008 open water season immediately before the reclamation work started (Tetra Tech WEI 2016). The pre-construction study was designed to document conditions at that time, identifying ecologically appropriate reference areas in Kississing Lake that have not been affected by the historical discharge from Camp Lake to enable quantitative assessment of the effects to date and to assess the geographic extent of effects. The study design also maximized the use of studies conducted prior to 2008, to provide as full a picture of conditions in the lake as possible. Repeating the study over time will then allow determination of the rate of recovery of aquatic conditions in the lake.

3.3.2 Construction Phase

Monitoring has been instrumental in identifying issues associated with the remaining adjacent mine waste to target further reclamation work. The monitoring program for the construction phase of the Sherridon Project is complete. This was focused on water quality to support management of the construction activities to advance the project while preventing degradation of water quality in the Cold Lake arm of Kississing Lake which directly receives inflow from Camp Lake. In addition, the monitoring program has provided a preliminary measure of the performance of the subaqueous mine waste disposal, and an ongoing assessment of the significance of runoff from any mine waste remaining adjacent to Camp Lake.

The water quality monitoring program has evolved considerably to reflect environmental management requirements at different stages of project construction since it was first implemented in 2013. The initial focus was on the pH of Camp Lake, as pH was the primary indicator of project performance at that time. No discharge was planned in 2013 and more detailed water quality information beyond pH was not required. The sampling and analytical program expanded in 2015 in preparation for a controlled discharge of treated water from Camp Lake to include a wider range of water quality parameters (metals, TSS, alkalinity, toxicity) in Camp Lake and stations in Cold Lake. The focus of this program was on determining the suitability of water quality in Camp Lake for discharge following lime treatment and demonstrated that the lake could be treated successfully although no discharge was conducted.

The scope of water quality monitoring expanded further in 2016 to support the first discharge of treated water from Camp Lake. Discharge quality thresholds based on the Metal Mining Effluent Regulations (now the Metal and Diamond Mining Effluent Regulations (MDMER; Minister of Justice 2021)) were set to manage the first treated discharge and to

inform project management actions. Monitoring included frequent sampling during the discharge and a period of post-discharge sampling of downstream conditions.

Discharge quality thresholds were added to management of the 2017 discharge based on 2016 monitoring results (turbidity, iron) and the MWQSOGs (aluminum, cadmium) in addition to the MDMER thresholds (toxicity, pH, TSS, copper, zinc) that were applied in 2016. Sampling was initiated in both Camp Lake and Cold Lake shortly following ice-out and continued through the discharge and on to the end of the open water season. The mixing zone monitoring area was established and sampling frequency in Camp Lake, the discharge, and the mixing zone, was increased during the discharge period.

There was a further increase in sampling frequency in 2017 to include daily sampling of the discharge and frequent sampling of Camp Lake and the mixing zone and this approach continued during the spring 2018 discharge of treated water. Water quality sampling frequency was relaxed to weekly during the open water season once Sherlett Creek flow was returned to Camp Lake in August 2018 and has continued at this frequency though 2021.

A full list of the 2021 sampling parameters is included in Appendix D.

3.3.3 Sampling Locations

The monitoring program samples four distinct areas (Figure 3 and Table 1.0):

- Sherlett Creek above the inlet to Camp Lake (one station, SC-1) – documents background water quality in the dominant surface water inflow to the lake. Additional stations on Sherlett Creek upstream of SC-1 (identified as SC-2, SC-3, SC-4, SC-5, and SC-6) are periodically sampled as well, but SC-1 is the primary monitoring location.
- Camp Lake (8 stations, 2 in each of the South (SB-1 and SB-2), Central (CB-1 and CB-2), North (NB-1 and NB-2), and East (EB-1 and EB-2) basins of the lake); – documents water quality in the lake and allows for determination of how remaining adjacent mine waste and construction activities are affecting water quality
- Camp Lake discharge (one station) and Cold Lake mixing zone (3 stations, CL-3, CL-7, and CL-8) – to document discharge water quality and how the discharge attenuates within the mixing zone. Stations CL-7 and CL-8 are located at the margin of the mixing zone, 100 m from the point of discharge entry to the lake. Both stations were added as part of the reclamation project monitoring program. Station CL-3 is located within the mixing zone 75 m from the point of discharge entry to the lake and is an historical monitoring station employed by studies prior to the reclamation project. The mixing zone size is based on the Manitoba Water Quality Standards Objectives and Guidelines (MWQSOG; Manitoba Water Stewardship 2011) specification of a 100 m radius from the point of discharge entry to the lake.
- Cold Lake (4 stations (CL-2, CL-4, CL-5, and CL-6) – to document water quality within Cold Lake. Stations CL-2, CL-4, and CL-5 are historical monitoring stations. Station CL-6 was added as part of the pre-construction baseline study conducted as part of the reclamation project.

Sampling frequency varies with location and time of year. During the open water season of the construction phase, Sherlett Creek, Camp Lake, the Camp Lake discharge (water quality), and the Cold Lake mixing zone stations were typically sampled weekly, and the Cold Lake stations were sampled monthly. All locations are sampled once during the winter ice cover period, subject to safe ice conditions. Discharge toxicity is sampled monthly during the open water season.

3.3.4 Program Adaptation

Sampling locations can be added to address specific questions that may arise in the future and that may not be adequately considered with existing locations. These additional locations may be sampled only for a specific period to ask a particular question or, if long term data are needed, these may become part of the continuing program.

In general, sampling locations cannot be “moved” without a significant risk of losing comparability with historical data. Unless there is compelling data to the contrary, a sampling station relocation should be viewed as an abandonment of the historical station coupled with establishment of a new station. Considerable caution should be exercised before deciding to abandon a sampling station. At a minimum, a period of paired sampling of the historical and new location is necessary to establish comparability before the historical location is abandoned in favour of a new location. One year of paired sampling is a typical minimum paired sampling period, and longer may be advisable for locations that are not otherwise frequently sampled.

Similar caution should be exercised in the event that a change in analytical laboratories is contemplated. A program of paired analyses from both the historical and proposed new labs for all critical sampling locations is essential to establish comparability. Step changes in temporal trends almost always occur as a result of a lab change and need to be fully understood before completing a transition to a new laboratory service provider.

3.3.5 Reporting

Annual water quality reports for the Project are prepared every spring documenting the previous year’s sampling program, analytical results, and discussing the findings. Summary memos are typically provided throughout the open water season at varying frequencies to update interested parties on project activities and interim findings.

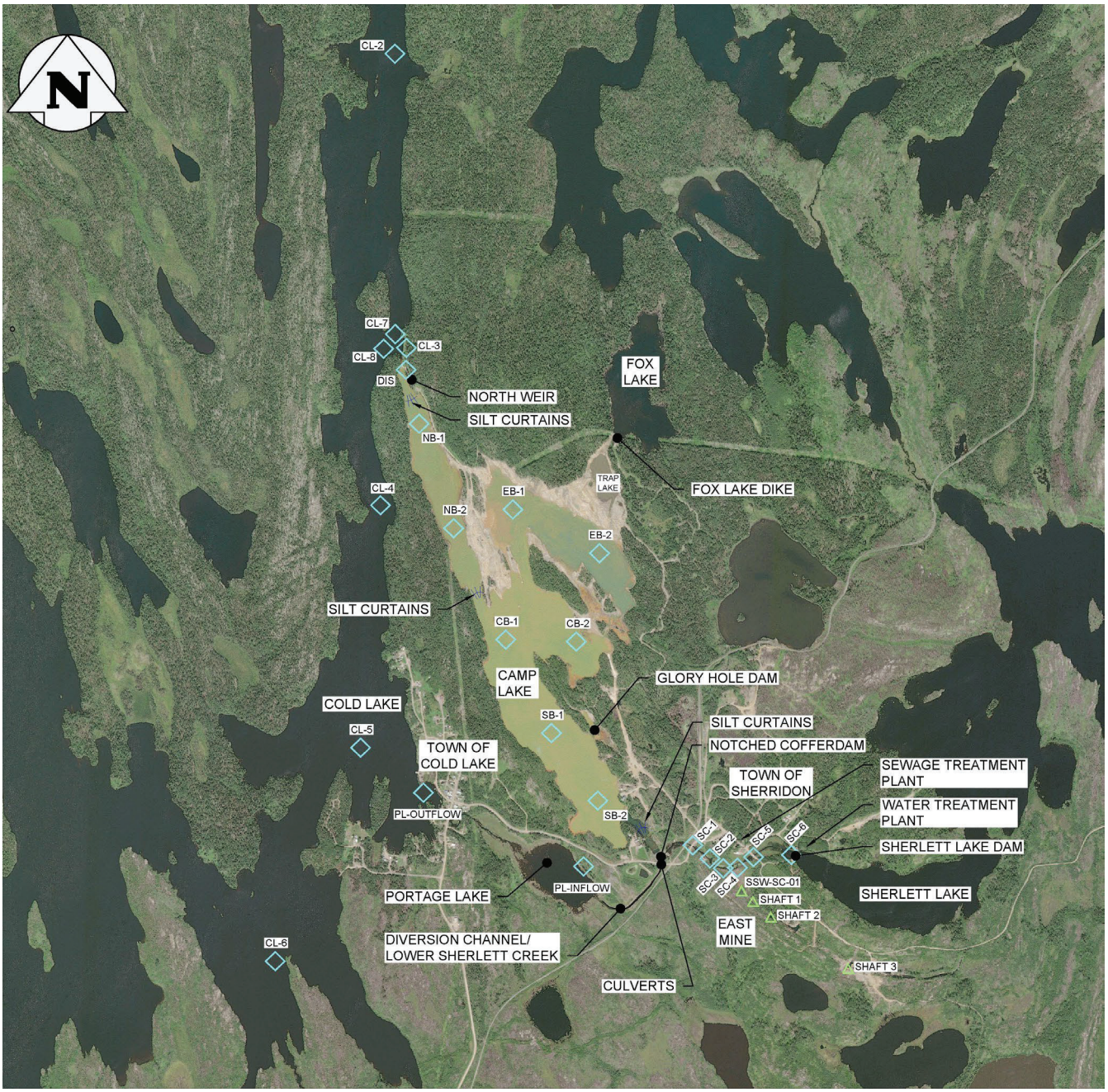


Figure 3 Sherridon Orphan Mine Project water quality monitoring stations.

Table 1 Sherridon Orphan Mine Reclamation Project water quality sampling station GPS locations (UTM Zone 14).

Camp Lake		
Sample ID	Easting	Northing
CB-1	365683	6111532
CB-2	366054	6111523
EB-1	365724	6112218
EB-2	366173	6111982
NB-1	365228	6112789
NB-2	365415	6112114
SB-1	365918	6111047
SB-2	366164	6110692
Cold Lake		
Sample ID	Easting	Northing
CL-2	365105	6114587
CL-3	365108	6113059
CL-4	365029	6112231
CL-5	364921	6110966
CL-6	364479	6109859
CL-7	365112	6113098
CL-8	365072	6113055
Sherlett Creek		
Sample ID	Easting	Northing
SC-1	386666	6110452
SC-2	366757	6110380
SC-3	366819	6110343
SC-4	366898	6110369
SC-5	366975	6110404
SC-6	367184	6110406

3.4 PLAN PERFORMANCE TO DATE

Indicative water quality trends are consistent with the pre-construction model predictions (DJRC 2021).

3.5 ANTICIPATED FUTURE OUTCOMES

The completed reclamation project is expected to:

- Eliminate surface-stockpiled tailings and waste rock, the associated tailings dusting, and the generation and runoff of ARD from the tailings/waste stockpiles into Camp Lake; and,
- Considerably improve water quality in Camp Lake such that it eliminates the Camp Lake discharge as a risk to the health of aquatic life in Kississing Lake.

Tailings dusting has already been eliminated as a result of the relocation of the bulk of the mine waste to the lake.

The expectation of considerable improvement in water quality is based on the water quality model predictions developed for the post-construction period during the project planning phase (Appendix E). These predictions were based on extensive information on Sherridon tailings and mine waste properties collected during project planning, along with site specific groundwater studies and sampling of Sherlett Creek upstream of Camp Lake. The modelling was completed for the key water quality parameters associated with protection of aquatic life - copper and zinc – and key indicators of acid rock drainage control – pH and sulphate. Cadmium originates from the same minerals as the zinc and is expected to behave in the same manner.

Key model predictions were that post-reclamation water quality in Camp Lake would primarily be determined by inflowing Sherlett Creek water quality and that water quality in Camp Lake would quickly approach that in Sherlett Creek on completion of construction. Overall, the submerged tailings were predicted to have a negligible to small effect on overlying water quality following the approximately 4-year transition period.

Subsequent water quality monitoring on Sherlett Creek has demonstrated the considerable variability of several key parameter concentrations. This variability needs to be kept in mind going forward when evaluating post-construction project performance and has been considered in development of the Post-construction Water Quality Performance Objectives (Appendix E).

4 ADAPTIVE MANAGEMENT

The Draft Sherridon Project AMP has been developed to cover the remaining two project phases: i.) post-construction transition; and ii.) final closure. The post-construction transition phase represents a period of improving water quality in Camp lake following removal of the adjacent mine waste/ARD runoff sources and elimination of construction disturbances in the watershed. The transition period represents the time expected to be necessary for the lake to fully respond to the relief from ARD loading. Predictive water quality modelling conducted during project planning indicated the transition period is expected to be relatively short, occurring over approximately four years, followed by the closure period characterized by minor water quality fluctuations related to the project works. The closure phase of the reclamation project represents the period of largely stable operation of the reclamation works. The start of this phase is tentatively set at four years post-construction, but the actual start time for this phase is when Camp Lake discharge water quality has stabilized as demonstrated by monitoring during the post-construction phase.

The primary project components requiring monitoring during these two phases include:

- Water quality
- Camp Lake water level
- Adaptive Monitoring Requirements (Sampling Frequency)
- Inspection and Maintenance of Built Structures

Decision flowsheets have been developed to assist in guiding the project owner in managing these project components and proactively mitigating any challenges that may arise over the long-term. The decision flowsheets provide a simple, graphical, representation of how adaptive management decisions are made in response to project conditions that may develop. Colour coding of the flowsheet cells indicates the risk of the indicated project condition to the aquatic environment (Appendix F) and may also be used by the project owner to communicate risk conditions and adaptive responses to project stakeholders (see Section 5).

4.1 WATER QUALITY

4.1.1 Management Concerns

Specific questions to be addressed include:

1. Has completion of the removal of remaining mine waste adjacent to Camp Lake –
    a. Reduced key metal concentrations (specifically copper and zinc) in the Camp Lake discharge to meet the post-construction water quality performance objectives developed for the project (Table 1).
    b. Caused iron concentrations (and specifically particulate iron) in Camp Lake to decrease such that the associated red turbidity in Camp Lake also has decreased to a level that is no longer an issue of aesthetic concern to local stakeholders.

2. Status of Kississing Lake Recovery

   Mining and mine waste affected water were discharged to the Cold Lake arm of Kississing Lake for about 80 years - from around 1928 until 2008. Kississing Lake is expected to slowly recover as a result of the reclamation project. That recovery will take considerable time, although signs of recovery are already evident. Local residents have observed the return of fish to the Cold Lake arm of Kississing Lake and use of Sherlett Creek by fish. Manitoba Fisheries Branch (now Manitoba Natural Resources and Northern Development) staff also have observed fish occurring within the discharge mixing zone. Water quality in Cold Lake has considerably improved and surficial sediment quality also is showing some initial signs of improvement since the uncontrolled discharge from Camp Lake was discontinued in late 2008. However, a quantitative assessment of recovery to date (e.g., repeat of the 2008 baseline study) remains to be done and the long-term recovery monitoring plan remains to be formalized. It should be noted that the recovery of Kississing Lake is a natural consequence of the project but was not an objective of the reclamation project. The end of the construction period is an appropriate milestone to re-visit the status of Kississing Lake recovery to date and establish a benchmark against which future recovery can be compared.

4.1.2 Management Thresholds

Post-construction water quality performance objectives (Table 1) have been developed to provide a means of evaluating performance of the reclamation project following completion of construction and informing the Adaptive Management Plan. The full basis for these objectives is detailed in DJRC (2022) attached in Appendix E.

The water quality performance objectives should not be considered as regulatory limits. Their purpose is to provide a means for evaluating the performance of the reclamation works in comparison to the expectations developed during project planning. Now that construction is completed, water quality in Camp Lake is expected to gradually approach the objectives over a four-year transition period. Monitoring to date indicates water quality is improving as fast or faster than predicted, although this trend may vary over the next few years.

The important diagnostic consideration is that the trend toward the objectives occurs, and at a rate of improvement such that there is a reasonable expectation that the objectives will be realized within four years of construction completion. Slow or absent improvement should trigger investigation of potential causes, which may or may not require the application of corrective or mitigative measures. Faster improvement than expected should move the monitoring program to confirmation monitoring, possibly followed by a reduced monitoring frequency.

Table 2. Proposed Post-construction Camp Lake Water Quality Performance Objectives to be achieved within 4 years following completion of construction.

Parameter (units)	Proposed Camp Lake Water Quality Performance Objectives
pH, field (pH units)	$6.5 \leq pH \leq 9.0$[1]
Sulphate (mg/L)	Ambient SC-1 +7+25%[2,3]
TSS (mg/L)	11.5 mg/L[4]
Turbidity (NTU)	Ambient SC-1 + 25%
Iron (total) (mg/L)	Ambient SC-1 + 25%
Aluminum (total) (mg/L)	Ambient SC-1 + 25%
Cadmium (total) (mg/L)	Ambient SC-1 + 25%
Copper (total) (mg/L)	Ambient SC-1 + 30%[5]
Zinc (total) (mg/L)	Ambient SC-1 + 25%

1. MWQSOG Tier II Objective – determined to be reasonable based on pre-construction predictions and monitoring record.
2. Ambient SC-1 refers to the current concentration measured at Sherlett Creek station SC-1 within the last 7 days.
3. Based on pre-construction prediction (from SENES 2008) plus 25% allowance for sampling and analytical variation as per DJRC (2022).
4. MSWQOG Tier II Objective for SC-1 determined as per Appendix A of DJRC (2022) and reasonable based on monitoring record.
5. Based on pre-construction prediction that total Cu will be 5 to 10% higher than in Sherlett Creek (from SENES 2008) plus 25% allowance for sampling and analytical variation as per DJRC (2022).

4.1.3 Management Actions

4.1.3.1 Water Quality Monitoring

The environmental monitoring program during the post-closure period will again primarily focus on water quality in Camp Lake since this determines the resulting discharge quality on which project objectives are evaluated. The initial scope of post-construction water quality monitoring is proposed as a continuation of the program conducted during the construction phase, with the same parameters (Table 1) and locations (Table 2) at a slightly decreased sampling frequency (bi-weekly during the open water season in place of the present weekly frequency). This scope should apply for at least the first two post-construction years. The “Water Quality” and “Adaptive Monitoring Requirements” decision flowsheets should be applied to water quality management during the post-construction phase and beyond. The “Water Cover” decision flow-sheet describes management decisions associated with low rainfall years that can erode water cover and affect water quality. There is a specific trigger for increased water quality monitoring frequency if water cover management is required.

4.1.3.2 Establish Post-Construction Benchmark for Kississing Lake

Mining and mine waste affected water were discharged to the Cold Lake arm of Kississing Lake for about 80 years - from around 1927 until 2008. Kississing Lake is expected to slowly recover as a result of the reclamation project, but that recovery will take considerable time, although signs of recovery are already evident. Local residents have observed the return of fish to the Cold Lake arm of Kississing Lake and use of Sherlett Creek by fish. Manitoba Environment, Climate and Parks also have observed fish occurring within the discharge mixing zone. Water quality in Cold Lake has considerably improved and surficial sediment quality also is showing some initial signs of improvement. However, a quantitative assessment of recovery to date remains to be completed.

The baseline environmental study conducted in 2008 provides a framework for long term recovery monitoring, representing the basic structure and sampling locations to be used for a similar post-construction study. Additions to the plan can always be made, but reductions should be avoided unless considered essential. It is recommended that this study be completed in 2022 or 2023.

4.1.4 Applicable Decision Flowsheets

- Water Quality
- Adaptive Management Requirements

4.2 WATER LEVEL/COVER

4.2.1 Management Concerns

Subaqueous storage of sulphide mine waste (tailings and waste rock) is an established best management practice for the long-term control of acid rock drainage. Effective control requires a minimum water cover of 1.0 m. The design of the Sherridon project established a target minimum water cover of 1.5 m to provide a factor of safety over the minimum requirement. The Sherlett Creek watershed covers over 100 km^2, and runoff is expected to maintain the 1 m minimum water cover under all but the most extreme drought conditions.

4.2.2 Management Thresholds

As described above, the target minimum water cover over tailings established for the Project is 1.5 m design cover level (316.0 masl) with a minimum water cover of 1.0 m (315.5 masl).

4.2.3 Management Actions

4.2.3.1 Lake Level Monitoring

Maintenance of the water cover over the mine waste is a critical success factor for the project. Loss of water cover can expose the waste to air, which would result in oxidation of the sulphides in the exposed waste and the resulting generation of acid rock drainage.

The water level on Camp Lake has been regularly monitored during project construction as part of weekly water quality sampling conducted during the open water season. As the project moves to less frequent sampling in the post-construction period, there will need to be a mechanism for the measurement and remote monitoring of the lake level to ensure the water cover is maintained (i.e., installation of continuous water level monitoring with remote access for data downloads).

4.2.3.2 Water Cover Management

Water cover management on Camp Lake would require pumping of water from an adjacent water body to restore water cover over the mine waste. Planning for water cover management would require selection of a water body to provide the water and plans for the installation of pumping capacity to deliver the necessary water. Examination of historical precipitation records indicates that water cover management is expected to rarely be necessary, such that the provision of temporary pumping capacity as needed is likely to be adequate. However, climate change is a reality and the effect of climate change on precipitation and local watershed runoff into the future remains somewhat uncertain. Should more extreme and longer drought conditions develop in the future than have been documented in the past, a permanent makeup water pumping capacity may become necessary.

4.2.4 Applicable Decision Flowsheets

- Water Cover
- Water Quality
- Adaptive Management Requirements

4.3 ADAPTIVE MONITORING REQUIREMENTS

4.3.1 Management Concerns

The primary objective of the Project is to manage the Sherridon mine waste such that discharges from Camp Lake do not present a risk to aquatic life. Project performance is assessed by monitoring water quality in Sherlett Creek, which flows into Camp Lake, in Camp Lake, and in the Cold Lake arm of Kississing Lake, which directly receives inflow from Camp Lake with subsequent comparison of the results to water quality performance objectives. Appropriate management of sampling frequency will ensure that water quality degradation does not go unnoticed.

4.3.2 Management Thresholds

The threshold for increasing/reducing sampling frequency is whether or not the measured water quality is meeting or trending toward the water quality objectives set for the project.

4.3.3 Management Actions

The frequency of water quality monitoring is determined by project phase and performance in comparison to the objectives; therefore, monitoring should continue as follows:

- Sherlett Creek – necessary for calculation of the objectives
- All four basins of Camp Lake to assess local performance of tailings management within the lake
- Camp Lake discharge, which is the location where the objectives are applied
- Cold Lake, within and outside the mixing zone

Monitoring frequency is highest during the initial post-construction period and is progressively reduced over time based on measured water quality.

4.3.4 Applicable Decision Flowsheets

- Adaptive Monitoring Requirements
- Water Quality

4.4 INSPECTION AND MAINTENANCE OF BUILT STRUCTURES

4.4.1 Management Concerns

The project is reliant upon the integrity of several built structures that need to remain in place for the project to function as planned, including: the Sherlett Lake level control dam; the coffer dam at the inflow to Camp Lake; the level control plates and diversion culverts at the inflow to the Sherlett Creek diversion channel; the Fox Lake outflow dyke; the Glory Hole dam; and the Camp Lake north weir. Management must include understanding and maintaining the structural integrity of this infrastructure over the long-term. Silt curtains have also been installed in Camp Lake and fencing has been installed along the diversion channel; both will require ongoing monitoring as long as they are in place (albeit not necessary for the project to function as planned).

4.4.2 Management Thresholds

Inspections must be conducted to determine if structures are functioning for intended purpose and/or if there is an apparent/impending risk of failure.

4.4.3 Management Actions

A program of periodic engineering inspections, informed by a Failure-Mode-Effects analysis to identify critical issues and appropriate management responses, should be developed, and implemented. A Dam Safety Review (including site inspection) was recently completed for the Project. The following management actions are summarized from Tetra Tech 2022.

- Establish Engineer of Record (EOR)
- Conduct Routine Surveillance in conjunction with water quality sampling (EOR to determine frequency; monthly frequency during open water season is recommended to initiate inspection program). Monitoring and reporting

should include but is not limited to beaver activity, vegetation growth, weathering, exposed rebar, cracking, ponding of water, fencing, signage, etc.

- Conduct formal annual inspections (should be conducted by the EOR)

4.4.4 Applicable Decision Flowsheets

Inspection and Maintenance of Built Structures

Silt Curtain Inspection and Maintenance

5 PROJECT COMMUNICATIONS

The community of Sherridon was established to house and service the mine workers; however, many of the original families have remained in the area long since mining ceased. Kississing Lake provides source of income and sustenance for many residents of Sherridon and Cold Lake. The residents have long expressed that Kississing Lake is of critical importance to their health and livelihood. Active communication between the communities of Sherridon and Cold Lake, Manitoba Environment, Climate and Parks (MECP), and other key stakeholders is of the utmost importance to successful AMP development, implementation, and long-term monitoring. To ensure that two-way communication occurs consistently moving forward, the following communication plan is proposed for implementation starting in Spring 2022.

1. **Project Website**. The project website will provide current information about project status and upcoming events, reports and memos of public interest, and photographs.

2. **Project Email Address**. A project specific email address and phone number will be established and provided to the public via the website. Questions or concerns related to the project may be submitted at any time. All incoming emails or phone calls will be received by Manitoba Environment, Climate and Parks with responses issued as quickly as possible. The email address may also be utilized for submitting photographs or observations from site to assist the Owner or its consultants in implementing the adaptive management plan, as needed.

3. **Communications Log**. A formal communications log will be developed and used to track all correspondence related to the project that is received from the public. The log will identify from whom the correspondence was received, when it was received, the form of the communication (email, phone call, meeting, etc.), a description of the query, a date by which follow up correspondence is required and submitted, and the person designated to provide the follow up. A sample communications log is included in Appendix G.

4. **Meetings**. Quarterly, semi-annual or annual meetings will be held via tele or video conference. Additional meetings may be proposed as necessary to address specific issues of concern that may require resolution before the next regular meeting (see item 5 below). It is anticipated that the need for meetings will decrease over time as the project moves past the post-construction transition state. At each regular meeting, a monitoring program update will be provided along with a summary of the communications received and responses provided since the last regular meeting. Time will be provided for a question-and-answer period, as appropriate to the matters under consideration. The meetings will provide a space for respectful open dialogue regarding topics of interest related to the long-term monitoring program and will provide an opportunity for two-way information sharing.

5. **Report Distribution.** Annual monitoring reports and other monitoring-related documents will be distributed to stakeholders following review and approval by Manitoba Environment, Climate and Parks. These reports have been shared with stakeholder groups over the years, including the Canadian federal government (Environment and Climate Change Canada, Fisheries and Oceans Canada), the provincial government (Manitoba Mines Branch, Conservation and Climate, Fisheries, Water Management, Indigenous and Northern Affairs) as well as the Sherridon Community Council, Manitoba Métis Federation, and Mathias Colomb Cree Nation.

6. **Additional Communication Triggers**. The AMP uses a colour coded system to manage project risks but also to trigger communication between the project owner and project stakeholders. Generally, the colour coding corresponds to maintenance of water quality (as per objectives presented in Appendix B). Colour coding in relation to communication triggers is as follows:

   a. Green = Project is performing as planned, water quality is meeting project objectives or trending toward, normal monitoring, maintain regular communication schedule with stakeholders

   b. Yellow = Project is performing as planned with no immediate risk to aquatic environment, but observations made of water quality trending away from project objectives, initiate investigation of cause, notify stakeholders of investigatory activities

   c. Orange = Project is not performing as planned with increased potential of risk to aquatic environment if the issue is not addressed. Investigate and apply corrective action. Communication with project stakeholders should continue until resolved (frequency dependent on nature and timing of issue).

   d. Red = Project is not performing as planned with potential for unacceptable risk to aquatic environment if the issue is not addressed. Response may include stopping the discharge, if appropriate to the issue, and immediate investigation of cause and application of corrective action as soon as possible. Frequent communication with stakeholders until resolved.

   Regular communications will be the responsibility of the project owner so that the community have a full understanding of any issues and what actions the owner or its consultant are taking to investigate and/or mitigate the problem and follow up communications will occur until the issue is resolved.

7. **Community monitor position.** The Province would like to establish a role for a community monitor who would assist the monitoring team with field work. This person would be appointed by Sherridon Community Council (SCC) and would provide liaison between OAM staff and SCC, as required.

6 REFERENCES

D.J. Ramsey Consulting (DJRC). 2021. Sherridon Orphaned Mine Reclamation Project – 2020 Water Quality Monitoring Program Summary. Report prepared for Tetra Tech Canada Inc., Winnipeg, MB.

D.J. Ramsey Consulting Ltd. (DJRC). 2022. Technical Memo to Jennifer Wilson, Tetra Tech Canada Inc. Sherridon Reclamation Project - Development of Post-construction Water Quality Performance Objectives. 29 May 2022.

Manitoba Water Stewardship. 2011. Manitoba Water Stewardship. 2011. Manitoba Water Quality Standards, Objectives, and Guidelines. Water Science and Management Branch, Manitoba Water Stewardship. Manitoba Water Stewardship Report No. 2011-01. November 28, 2011.

Minister of Justice. 2021. Metal and Diamond Mining Effluent Regulations (SOR 2002/222). Published by the Minister of Justice at: http://laws-lois.justice.gc.ca. Current to June 18, 2020.

Moncur, M.C., C.J. Ptacek, D.W. Blowes, M.B.J. Lindsay, and J.L. Jambor. 2012. Long-term storage of sulfide-rich tailings under a shallow water cover. Proceedings from: 9th International Conference on Acid Rock Drainage, May 20-26, 2012, Ottawa, Ontario, Canada. W.A. Price (Ed.)

SENES Consultants Ltd. 2008. Geochemical and Hydrogeological Assessment in Support of Sherridon Rehabilitation. Report to Wardrop Engineering Inc. Richmond Hill, ON. December 2008.

SRK Consulting. 2005. Tailings Alternatives Assessment, Doris North Project, Hope Bay, Nunavut, Canada. Report prepared for Miramar Hope Bay Limited, North Vancouver, BC, by SRK Consulting.

Tetra Tech Canada Inc. 2022. Sherridon Mine Rehabilitation Site Dam Safety Review. Report prepared for Manitoba Environment, Climate and Parks by Tetra Tech Canada Inc. Nanaimo, BC. March 2022.

Tetra Tech WEI Inc. 2016. Sherridon Orphaned Mine Reclamation Project, Aquatic Resources Baseline Study – 2008. Report prepared for Manitoba Mineral Resources, Mines Branch, Winnipeg, MB, by Tetra Tech WEI Inc., Winnipeg, MB. April 2016.

UMA Engineering Ltd and Senes Consultants Ltd. (UMA/SENES). 2004. Site Specific Assessment of Human Health and Ecological Risks from the Abandoned Mine Site, Sherridon/Cold Lake, Manitoba. Report to Manitoba Conservation. Winnipeg, MB. November 2004.

APPENDIX A – SHERRIDON ORPHAN MINE RECLAMATION PROJECT TIMELINE.

Sherridon Orphan Mine Reclamation:
Milestone Timeline

TETRA TECH

1928-1952
Mine Operated by Sherrit Gordon Mines

2000
Manitoba established the OAM Site Rehabilitation Program to address concerns associated with orphaned/abandoned mine sites.

2007-2008
Reclamation Plan Design

2008-2012
- Construct & commission Sherlett Creek diversion & WTP
- Discharge treated lake water, relocate 7 million tonnes of mine waste to Camp Lake

2013-2015
Refill Camp Lake, monitor & manage lake pH / water level

2016-2017
- Water quality monitoring & management
- Controlled discharge from Camp Lake
- Decommission & remove WTP & associated materials (waste rock, causeway materials, sludge)

2018
- Fox Lake & Glory Hole isolation
- Restore Sherlett Ck flow through Camp Lake
- Identify & initiate additional tailings removal
- Water quality monitoring & management.

2019
- Water Quality Monitoring
- No Construction Activity

2020
- Completion of tailings removal
- Removal of mine access road
- Water quality monitoring
- Preparation of draft adaptive management plan

2021-Ongoing
- Completion of tailings removal (2021)
- Adaptive Management Plan formalization & ongoing monitoring/communications

APPENDIX B – RECLAMATION PLAN DESIGN

The reclamation plan design for the Sherridon Project was designed to:

- Improve site safety
- Eliminate tailings dust
- Control acid rock drainage from the Sherridon mine waste

The final design was the product of a multi-step design and approval process. The first step was conceptual design, in which six potentially applicable reclamation approaches were evaluated and compared, leading to recommendation of sub-aqueous disposal as the preferred approach. The conceptual plan was reviewed by Manitoba (Mines Branch), which also consulted with national and international agencies involved in managing acid rock drainage (e.g., MEND, ICARD), and by the inter-departmental planning committee of the Manitoba government, which included representatives of all Provincial government departments and some federal departments and agencies (Fisheries and Oceans Canada (DFO), Environment Canada, and the Canadian Environmental Assessment Agency (now referred to as the Impact Assessment Agency)).

The subaqueous disposal approach was selected for a number of reasons:

- Subaqueous disposal is a recognized best management practice for the prevention of acid rock drainage from sulphide mine waste
- The effectiveness of subaqueous disposal in controlling acid generation from the Sherridon tailings was demonstrated by the placement of tailings in Fox Lake during historical operations
- Tailings dusting is eliminated, because all the tailings would be under water cover
- Long-term water treatment also is not expected to be required, because of the demonstrated effectiveness of the ARD control provided by sub-aqueous disposal resulting in lower cost.

The conceptual design was approved by the Mines Branch following review and the project moved to detailed design. Detailed design considered two approaches to sub-aqueous disposal – high level flooding, which minimized relocation of mine waste by using a system of dykes and dams for containment of the water cover over the mine waste, and a low-level design involving relocation of most of the mine waste (i.e., all that was not already under water or below the final design elevation for the tailings) to Camp Lake and using the natural topography to provide containment. The high-level design was ruled out part-way through the process due to unfavourable foundation conditions for the dam construction needed in Camp Lake. The low-level sub-aqueous disposal design was selected for construction.

The foundational element of the reclamation plan involved the sub-aqueous disposal of the mine waste (tailings and waste rock) that were stockpiled on land adjacent to Camp Lake. This involved temporary diversion of Sherlett Creek around Camp Lake, dewatering of Camp Lake by pumping water through a water treatment plant and discharging the treated water to the Cold Lake Arm of Kississing Lake, and relocation of the mine waste from the stockpile to Camp Lake using a truck and shovel method. The mine waste placed in Camp Lake was track packed in lifts, or layers. The

upper 3 m of mine waste placed in the lake were mixed with lime before placement and packing to assist with neutralization.

The South, Central, and North basins of Camp Lake largely contain placed tailings (i.e., tailings moved from the on-land tailings stockpile) and waste rock. The East basin is almost entirely underlain by cut-down tailings (i.e., tailings that were in place before the reclamation project but were “cut down” to the final design tailings elevation.

The final design elevation for the packed tailings surface was 316.5 m ASL. With the planned 1.5 m deep water cover, the final design water elevation for Camp Lake was 318.0 m ASL. The 1.5 m water cover was selected based on other studies that identified 1 m as the minimum water cover necessary for effective ARD control and then adding a 0.5 m, or 50% buffer to that requirement. Some settlement of the tailings was expected to occur over time, and since has, further increasing the depth of water cover in the basins with placed tailings (South, Central, and North).

Once all the mine waste located above elevation 316.5 m ASL had been relocated to Camp Lake, the lake was then to be refilled with water from Cold Lake, treated as necessary to pH 9.0 using the water treatment plant, and the flow of Sherlett Creek through Camp Lake would be restored.

Restoration of Sherlett Creek flow through Camp Lake is a critical design element for the project. The large Sherlett Creek watershed is sufficient to maintain some creek flow in extreme drought conditions and is therefore necessary to maintain the water cover on Camp Lake under those same conditions without requiring active management. Operation as a flow-through system also ensures that high-flow conditions are managed without requiring active management. Another important contribution of Sherlett Creek is the delivery of alkalinity – on an annual basis, Sherlett Creek delivers as much alkalinity as was typically added during the annual lime treatments.

For this reason, any decision to close the discharge needs to consider the risks associated with closure along with any benefits. Closure of the discharge should only be considered if the discharge quality is representing a risk to aquatic life. An obvious example of this risk is if the toxicity testing shows mortality – without question that should trigger an immediate discharge closure. However, there are other indicators to be monitored that should trigger a discharge closure in advance of an indication of acute toxicity. These include metals (copper, zinc), TSS concentrations, or pH in the discharge approaching the MDMER effluent quality limits.

The primary risk associated with closing of the discharge is that it also requires re-direction of all Sherlett Creek flow to lower Sherlett Creek because Camp Lake has limited storage capacity. This redirection also would eliminate the associated inflow of alkalinity to Camp Lake, which in most circumstances would result in the development of acidic conditions in the lake and would require lime treatment before a discharge could be resumed. Based on past experience, lime treatment is to be avoided if at all possible due to the difficulty associated with preventing fugitive emissions of lime dust during application and from the lake surface and the effect of these emissions on the adjacent community. In this regard, consideration of discharge closure should be limited to situations where it is absolutely necessary to prevent an acutely toxic discharge from occurring. Although issues related to the appearance of the water leaving Camp Lake also are important, discharge closure does not appear to be an acceptable management action given the likely requirement for a subsequent lime treatment before a discharge could be resumed.

APPENDIX C – PLAN MODIFICATIONS

All reclamation projects involve some changes to the initial plan as work proceeds. These changes often are a result of findings in the course of the work, since it is impossible to know in advance of the work everything that will be encountered in the course of excavation and material relocation. The sub-aqueous disposal reclamation approach remains unchanged, but the execution approach has been modified several times to address requests from the community, decisions made by the contractor, and matters identified in the course of reclamation.

Community Requests – The original project design involved routing of the entire flow of Sherlett Creek through Camp Lake via the natural inflow and outflow at the south end of Camp Lake. This would have meant that all water flow in lower Sherlett Creek would first pass through Camp Lake. The Community indicated they did not want water from Camp Lake flowing through the Community. The adaptive response to this request was to route all the Sherlett Creek flow out the north end of Camp Lake (which was the flow route of the creek at the time the reclamation project began) and plug the culverts in the south basin so no water could flow directly from Camp Lake to Portage Lake. Once the Sherlett Creek diversion was implemented, routing all the creek flow down through Portage Lake and lower Sherlett Creek to Kississing Lake, fish started using the creek in spring. The Community was most pleased with the return of the fish, which prompted them to request that flows be maintained in the creek on completion of the project. In response, the project team developed a flow-splitting plan to provide flows to both Camp Lake and lower Sherlett Creek.

Contractor Decisions – The reclamation construction contract was set up as a performance-based contract, which allows the contractor to make changes to the method of work provided that the change or changes have the same result as the original plan. Under this arrangement, any changes made by the contractor are made at their own risk, such that additional costs that result from the change are borne by the contractor.

The original plan called for batch lime treatment of the highly acidic water in what were called the “acid ponds” to remove the bulk of the acidity from the water in the ponds before transfer to the water treatment plant for final treatment before discharge. The contractor decided to skip the initial batch treatment of these waters and instead chose to transfer the untreated acidic water to Camp Lake for treatment through the water treatment plant. The contractor’s water treatment consultant assured them that the plant would handle the acid water from the ponds and the change was approved subject to the requirement that any discharge of water treatment plant sludge to Camp Lake did not exceed a specific depth. However, the treatment plant had difficulty treating the more acidic water, treatment took much longer than planned, and the volume of sludge deposited in Camp Lake considerably exceeded that allowed in the contract specification. The contractor was required to remove the sludge from the lake at their expense.

The contractor also chose to construct the water treatment plant and associated facilities on a pad built with acid-generating waste rock. This introduced the complexity that the waste rock could not be relocated to Camp Lake, or otherwise managed appropriately, until the water treatment plant was removed. This remaining waste rock on site contributed to the acid load to Camp Lake following refilling of the lake

Fox Lake Outlet Reinforcement – Removal of tailings from the area around the outlet of Fox Lake resulted in removal of the material that had been supporting the lake outlet and lowering the crest of the outlet, creating a risk of outlet berm failure during wet periods. A temporary clay berm was installed across the outlet, and a permanent structure was designed to restore outlet berm stability and to provide an overflow spillway to allow discharges from the lake during wet periods without compromising outlet integrity

Glory Hole Isolation – the mining company left several "glory holes" (openings to surface where ore in the crown pillar (the roof of the mine) was mined out at the end of mine life). One glory hole is located adjacent to the east side of the South basin of Camp Lake. The glory hole was not observed to be connected to Camp Lake prior to construction but a connection was clearly evident during construction. This connection likely developed during construction, when the water level in the South basin of Camp Lake was raised to facilitate dewatering of the North basin for waste placement. The connection persisted following establishment of the final operating level on Camp Lake, and a dyke was specified to isolate the Glory Hole from Camp Lake.

Remaining Mine Waste, Water Management, and Lime Treatment – Camp Lake was refilled in 2013, following relocation of much, but not all, of the mine waste. The large tailings stockpile had been removed and relocated to the lake, but waste rock remained on the former mine site, which also was the site of the water treatment plant. The site access road and causeway through the margin of Camp Lake, both constructed with waste rock, and ore/waste rock in the area of an ore loadout adjacent to a former mine shaft also remained between the access road and the South basin of Camp Lake.

In addition to these remaining adjacent mine waste sources, more recent site investigation has indicated the occurrence of mine waste (primarily tailings) adjacent to Camp Lake along the north shore of the East basin, around the peninsula that separates the East basin from the Central basin, and between the East basin and Fox Lake. Some of these materials were identified as mineral soils during the previous period of waste relocation and had been covered with erosion control matting, which was eventually eroded away by the acid drainage. Other waste material had become buried under overburden when placed during mine operations but was exposed by erosion of the overburden by rainfall and one or more overflow discharges from Fox Lake following removal of tailings on top of the overburden.

Acid drainage originating from the adjacent mine wastes and entering Camp Lake quickly acidified the lake after it was filled, and the aggregate acid load to the lake was greater than the ability of the water treatment plant to neutralize the acidity. Some residual mine waste was expected to remain adjacent to Camp Lake following the mine waste relocation, but the actual residual quantity that remained was much greater than planned, for all the reasons indicated above. Consequently, it was not possible to use the plant to treat the lake to an acceptable quality for discharge although the lake still required treatment before any discharge could be implemented.

Simply leaving the lake isolated also was not an option because natural accumulations of rainfall and local watershed runoff also necessitated controlled discharges to maintain containment, so it was necessary to find an approach that could address this treatment requirement.

Batch lime treatment was selected as the most rapid means to treat the entire lake. Lime was applied to the surface of lake ice in late winter 2014. Sampling in late May, following ice-out, indicated the treatment had increased lake pH from the range of pH 3.45 to 4.09, when sampled in 2013, to pH 6.03 to 7.55, demonstrating that batch lime treatment could effectively treat the lake but that higher lime loading would be necessary to achieve the pH of about 9.0 needed to effectively precipitate copper and zinc, the principal metals of concern. The increased pH was short lived, however, dropping to between pH 3.55 and 4.40 by June 10. The rapid post-treatment drop in pH indicated a significant uncontrolled source or sources of acidity to the lake basin remained to be addressed by the reclamation project.

Further investigation in summer 2014 determined that the subaqueous tailings were performing as expected, with black/dark grey unoxidised tailings found over the entire 12 cm length of a core taken in the Camp Bay area (Central basin) of Camp Lake. Subaqueous disposal functions to control acid generation from sulphide tailings by maintaining anoxic conditions in the tails and the core sample indicated the necessary anoxia was being maintained. Remaining adjacent mine waste materials were identified as the key contributors of acid drainage to Camp Lake requiring removal. The accumulated water treatment plant sludge in the North basin also was identified as a source of metals to the lake that required removal. The residual adjacent mine waste along the north shoreline of the East basin was not identified as an issue at this time. Acid generation from the waste had not yet started, and water quality in the East basin was generally much better than in the rest of Camp Lake.

A batch lime treatment was applied to the lake in late winter 2015, with a higher lime loading than in 2014, with the intention of conducting a controlled discharge to lower the lake level following verification that acceptable water quality had been achieved. Effective water treatment was achieved by the treatment, but a discharge was delayed by consultation with the Community and, by the time agreement to discharge had been reached with the Community, water quality had degraded due to the continuing inflow of acidity from the adjacent mine wastes and no discharge could occur.

Lime treatment and a controlled discharge were completed in 2016, enabling the construction works to resume. The water treatment plant sludge in the North basin of Camp Lake was dredged and transferred to Trap Lake. Waste rock was removed from the area of the water treatment plant, the causeway was removed, and removal of the access road was started, progressing from the edge of Camp Lake to the crest of the first hill.

The remainder of the planned construction works were planned for completion in 2017. A winter lime treatment was applied, followed by a controlled discharge in spring. Construction access to the site was restricted in 2017 such that it was not possible to complete the planned works (including reinstatement of Sherlett Creek flow through Camp Lake) which resulted in additional water treatment being needed to control pH. An alternative lake treatment was tested in late summer, using liquid sodium hydroxide instead of lime, but sodium hydroxide precipitates from solution below about 12 °C and the cooling ambient temperatures soon made it impossible to effectively apply the treatment.

The final batch lime treatment of Camp Lake was done in late winter 2018, followed by a controlled discharge to lower the lake level. Construction work resumed in July, with the Glory Hole dyke being completed, followed by removal of the ore and waste from around the ore loadout, and completion of the Fox Lake outlet dyke and spillway. The Sherlett Creek cofferdam was notched, and the tailings berm was removed to allow the creek to flow back into and through Camp Lake, beginning in mid-August. No lime treatments have been necessary to maintain water quality in Camp Lake since Sherlett Creek flow was restored, even though the construction works have not been completed.

The residual mine waste located adjacent to Camp Lake along the north shore of the East basin was identified in 2018. Oxidation had progressed to the stage where there was obvious yellow/orange colouration on the surface of the waste and water quality in the East basin was worse than in other lake basins – while water quality the South, Central and North basins had improved, East basin water quality was deteriorating. Removal of this material was added to the workplan, along with a thorough inspection of the adjacent areas to identify all remaining mine waste for removal.

APPENDIX D – WATER QUALITY PARAMETERS

Water quality monitoring sampled a wide range of water quality parameters (typically 75 lab-analysed parameters and 7 field-measured parameters; Table 1), but has primarily focused on what we have termed, since 2015, the "key parameters" for the project: pH, alkalinity, TSS, and the total fractions of the metals iron, aluminum, cadmium, copper, and zinc. The key parameters are those which have been found to be relevant to understanding the effects of water from Camp Lake on receiving water quality in Cold Lake. Some of the key parameters have historically occurred in Camp Lake in concentrations at or above the applicable MWQSOGs (pH, aluminum, cadmium, copper, iron, and zinc; Tetra Tech WEI (2016) and DJRC (2016)). Alkalinity was first introduced as a key parameter to track the performance of lime treatments and, through its consumption over the season, as a measure of continuing acid sources to the lake. With the lime treatment discontinued and Sherlett Creek inflow augmenting buffering capacity in Camp Lake, alkalinity is now monitored to assess the performance of the project in maintaining adequate alkalinity. TSS is a focus because of local concerns regarding the effect of any discharge from Camp Lake on the appearance of water in Cold Lake.

Turbidity, both field and lab measured, was added to the analyses in the 2017 program, and has been continued, to provide another means of detecting possible changes in appearance of the water and is considered here as a key parameter. Total and dissolved organic carbon were added to the 2021 program to provide a better understanding of factors affecting metal partitioning between the dissolved and particulate phases. Dissolved sulphate also was added to the 2021 program to allow comparison with pre-project model predictions.

Table 1.0 Sherridon Orphan Mine Reclamation Project measured water quality parameters (2021).

Parameter
Physical/Chemical (mg/L)
pH (pH units)
Alkalinity ($CaCO_3$)
Bicarbonate (HCO_3)
Carbonate (CO_3)
Hydroxide (OH)
Total Hardness ($CaCO_3$)
Hardness ($CaCO_3$)
Dissolved Hardness ($CaCO_3$)
Turbidity (NTU)
Total Suspended Solids (TSS)
Dissolved Organic Carbon (C)
Total Organic Carbon (C)
Dissolved Sulphate (SO_4)
Acute Toxicity (LC_{50})
Total and Dissolved Metals (mg/L)
Aluminum (Al)
Antimony (Sb)
Arsenic (As)
Barium (Ba)
Beryllium (Be)
Boron (B)
Cadmium (Cd)
Calcium (Ca)
Chromium (Cr)
Cobalt (Co)
Copper (Cu)
Iron (Fe)
Lead (Pb)
Lithium (Li)
Magnesium (Mg)
Manganese (Mn)
Molybdenum (Mo)
Nickel (Ni)
Phosphorus (P)
Potassium (K)
Selenium (Se)
Silicon (Si)
Silver (Ag)
Sodium (Na)

Strontium (Sr)
Sulphur (S)
Thallium (Tl)
Tin (Sn)
Titanium (Ti)
Uranium (U)
Vanadium (V)
Zinc (Zn)

APPENDIX E – WATER QUALITY PERFORMANCE OBJECTIVES

technical memorandum

DJRC | D.J. Ramsey Consulting Ltd.

To: Jennifer Wilson, Tetra Tech Canada Inc.

From: Doug Ramsey

Date: 29 May 2022

Re: Sherridon Reclamation Project – Development of Post-construction Water Quality Performance Objectives

---

Jennifer

Post-construction water quality in Camp Lake was modelled during project planning to estimate the water quality improvement expected following completion of the construction works. The model predictions indicated that post-construction water quality in Camp Lake will be strongly influenced by Sherlett Creek water quality, with small to no incremental increases in parameter concentrations in passing through Camp Lake. Modelling was focused on total copper and zinc, as the key metal parameters targeted for control, and on pH and sulphate, as measures of the significance of any residual ARD generation from the submerged tailings.

The planning-level modelling provided sufficient insight to assess the effectiveness of the selected subaqueous disposal reclamation approach but stopped short of developing post-construction water quality performance objectives. This memo extends the pre-construction modelling results to performance objectives to be applied during the post-construction monitoring period. The modelling results are reviewed, predictions are benchmarked against recent monitoring results as a preliminary gauge of their validity, potential types of performance objectives are considered and their applicability evaluated, leading to identification of preferred performance objectives.

1.0 Predicted Post-Construction Water Quality

Post-construction water quality in the Camp Lake discharge was modelled as part of the detailed design phase of project planning (SENES 2008). Modelling was done using the Reactive Acid Tailings Program for Base Metal Tailings (RATAP.BMT) and focused on four parameters (pH, sulphate, total copper, and total zinc).

Input terms to the model included:

- tailings dimensions (size, depth, depth to water table),
- tailings particle size distribution,
- gaseous transport characteristics (diffusion coefficient, gas filled porosity),
- precipitation (hydraulic flows),

- mineralogy (bulk density, reactive sulfide minerals, other primary minerals, secondary minerals, buffering minerals),
- water quality (background water quality, both surface (Sherlett Creek) and groundwater, and tailings porewater quality),
- pond option (pond size, depth, pond water quality, inflow water quality),

Input data were subjected to statistical analysis to identify outliers and significant data clusters. All water quality data were checked for ion balance and solid/solution equilibrium with the US Geological Survey's PHREEQC water quality program.

The model predictions indicated that post-construction water quality in Camp Lake and the discharge to Cold Lake would largely be determined by the quality of the inflowing Sherlett Creek, with relatively steady water quality achieved within about 30 to 40 months following project completion (Figures 1 to 4).

pH was estimated to be the same as in Sherlett Creek within 10 months of the end of construction and to remain the same over the 600-month modelling period (Figure 1). Sulphate concentrations were estimated to be in the 11 to 12 mg/L range over the same period (Figure 2).

The tailings placed in Camp Lake were estimated to make a minor (range of 3 to 10%; Figure 3) additional contribution to the copper concentration compared to the creek inflow. It is unlikely that this small increase would be detectable in monitoring given that the precision of determinations by commercial analytical laboratories is typically in the range of 10 to 15%. Following project completion, the total zinc concentration in the Camp Lake discharge was expected to be 20 to 25% lower compared to the concentration in the Sherlett Creek inflow (Figure 4), indicating the submerged tailings appear to be a sink for zinc rather than a source.

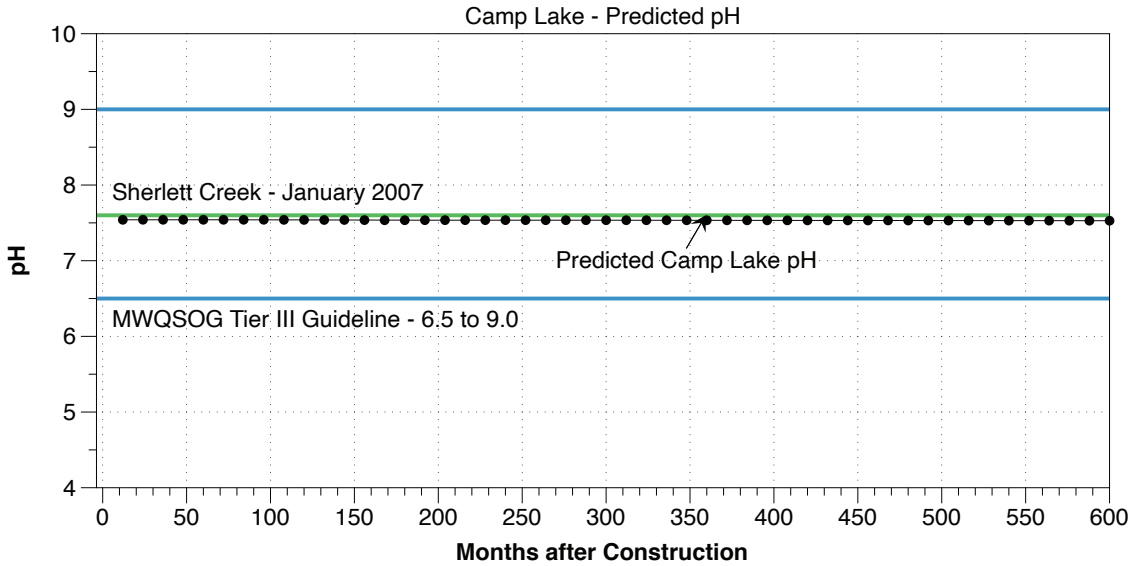


Figure 1. Predicted post-construction pH in the Camp Lake discharge.

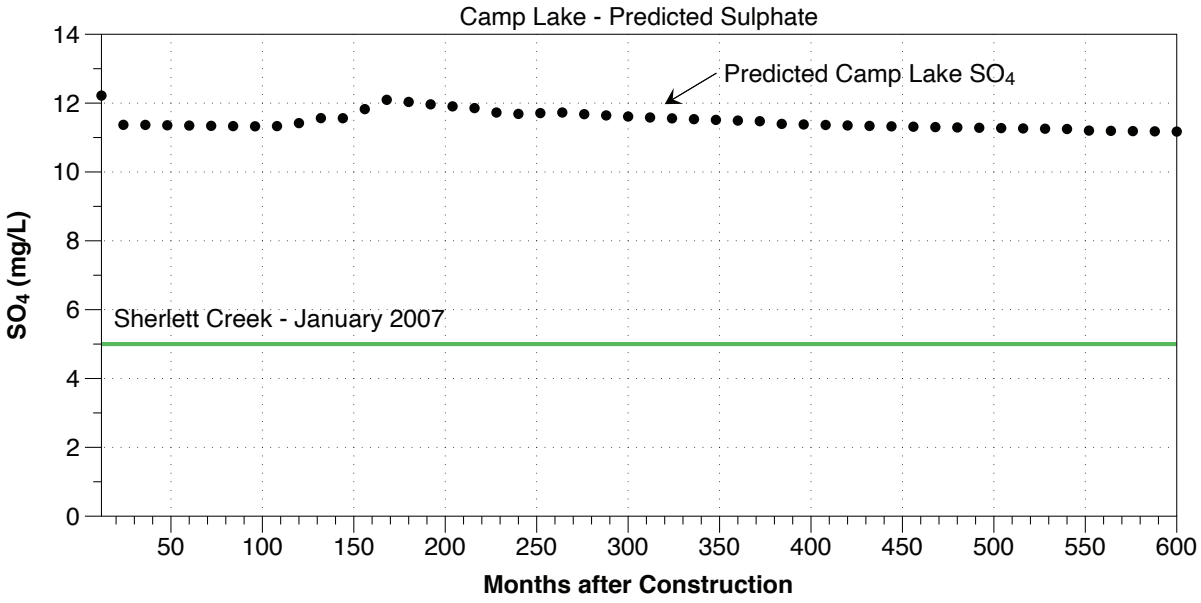


Figure 2. Predicted post-construction sulphate concentration in the Camp Lake discharge.

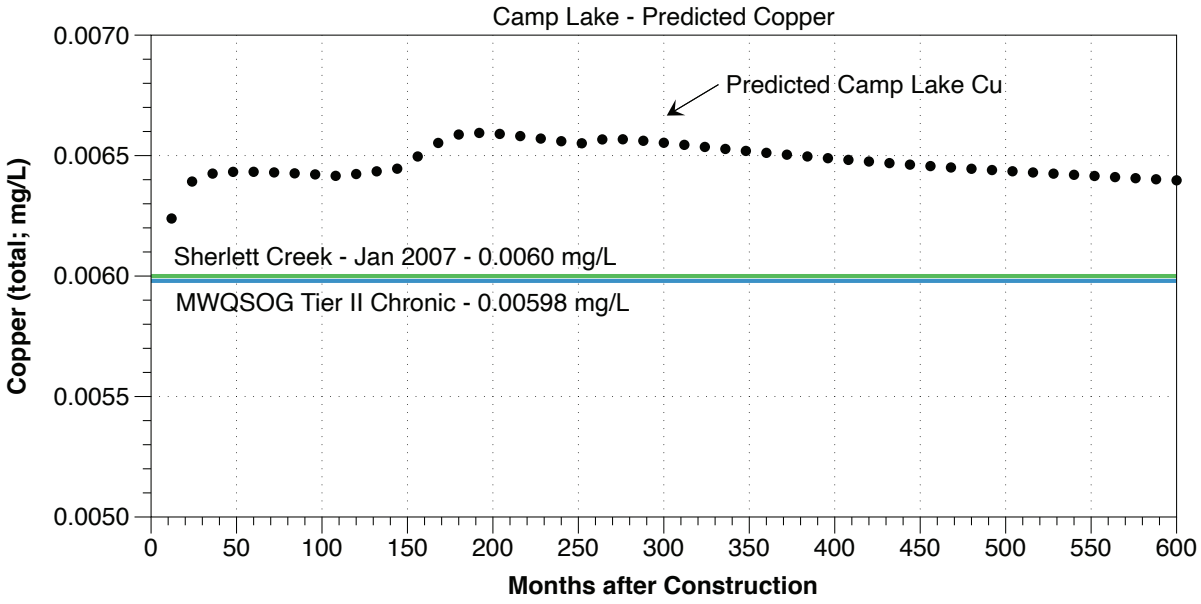


Figure 3. Predicted post-construction total copper concentration in the Camp Lake discharge.

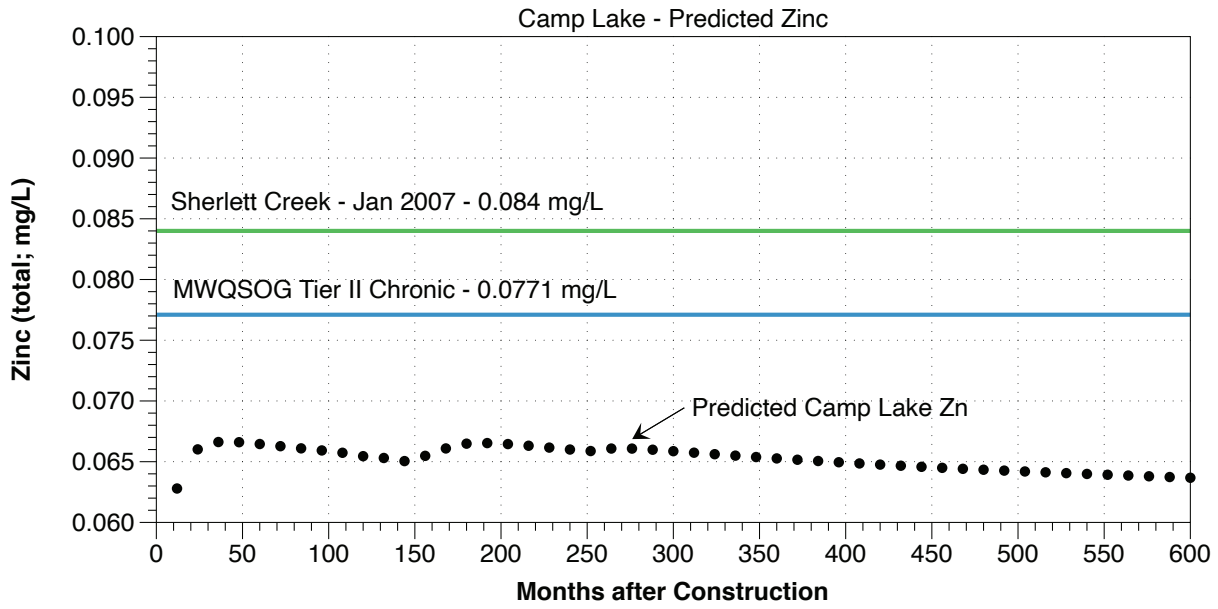


Figure 4. Predicted post-construction total zinc concentration in the Camp Lake discharge.

2.0 Benchmarking the Pre-construction Predictions

A conclusive benchmarking analysis of the Camp Lake water quality monitoring data has not yet been possible because construction was only completed in mid-September 2021. However, indicative water quality trends are consistent with the pre-construction model predictions.

Camp Lake pH quickly moved toward that in Sherlett Creek following the restoration of Sherlett Creek flow through Camp Lake in 2018 (Figure 5). By the 2020 and 2021 open water seasons, Camp Lake discharge pH matched that in Sherlett Creek on most sampling dates.

Sulphate wasn't routinely monitored through 2020 but was added to the analyses beginning in 2021.

An early indication of the validity of the predicted post-construction copper and zinc concentrations made during project planning is found in the measurements of under-ice water quality in Camp Lake during winter. Until construction is completed, mine waste remaining adjacent to the lake continues to influence water quality during the open water season (DJRC 2019, 2020, and 2021). Winter ice cover isolates the lake from runoff from the adjacent waste and provides an early means of testing the predictions.

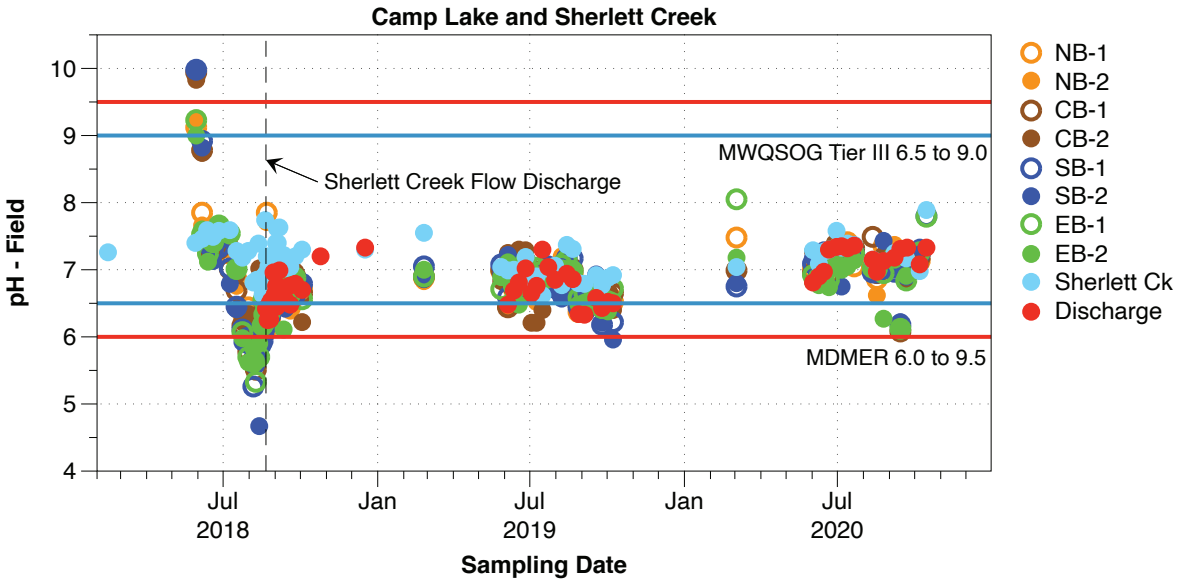


Figure 5. Field pH in Camp Lake and Sherlett Creek – 2018 to 2020.

In all three winter periods (2018/19, 2019/20, and 2020/21) since Sherlett Creek flow was restored to Camp Lake, copper and zinc concentrations in the lake have generally approached those in the inflowing Sherlett Creek (Figures 6 and 7). On this basis, the post-construction water quality predictions appear to be valid provided that the remaining mine waste adjacent to Camp Lake is removed.

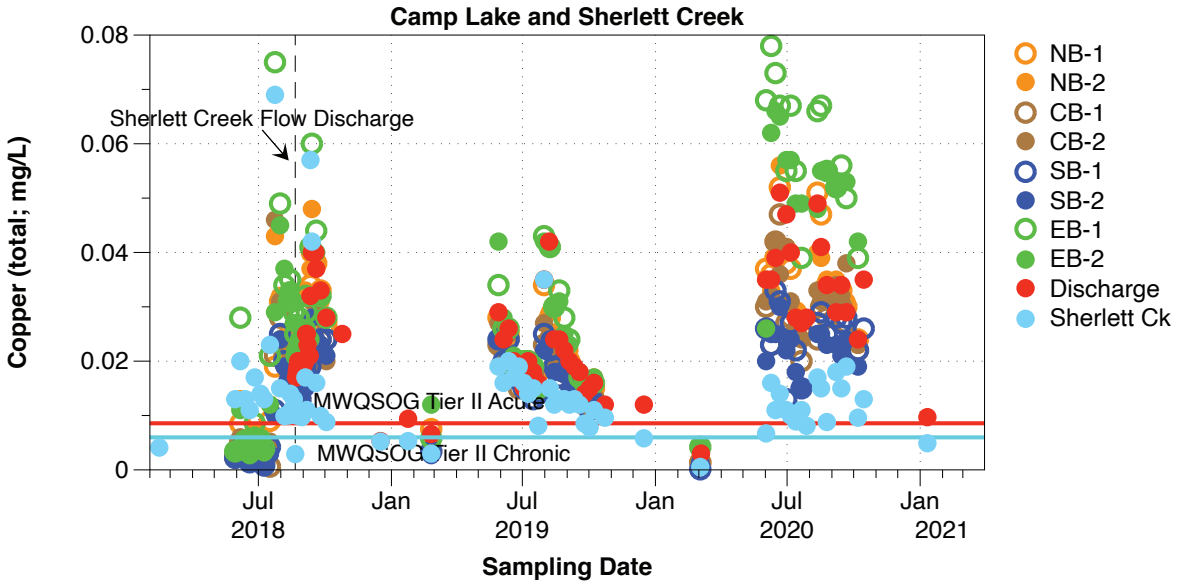


Figure 6. Total copper concentrations in Camp Lake and Sherlett Creek – 2018 to 2020.

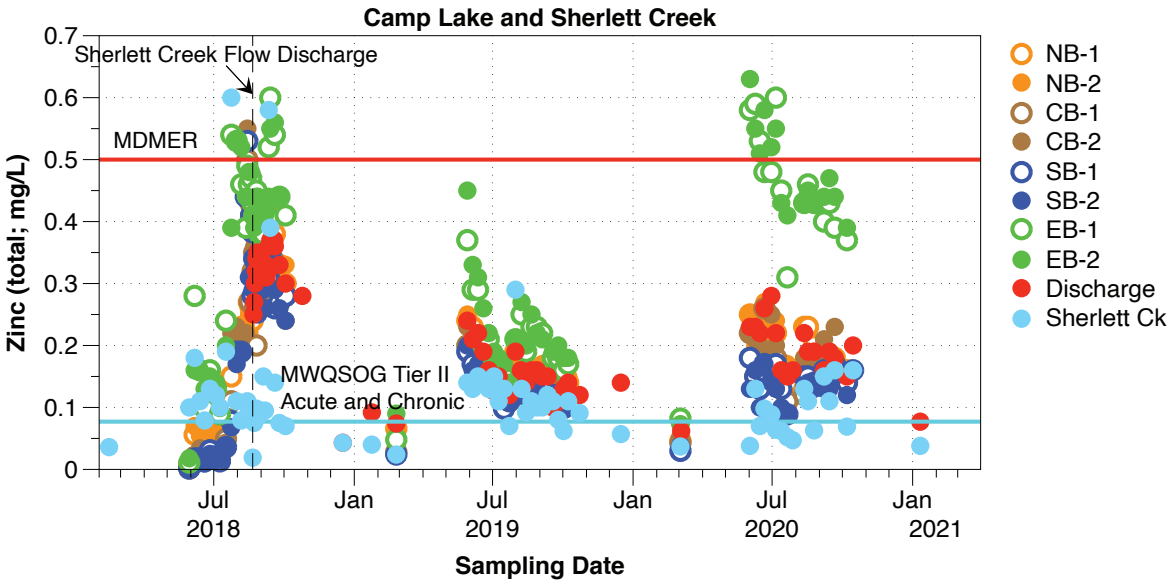


Figure 7. Total zinc concentrations in Camp Lake and Sherlett Creek – 2018 to 2020.

3.0 Potential Post-construction Performance Criteria

The preliminary model validations discussed above indicate that post-construction water quality in Camp Lake, and the lake discharge, will largely depend on Sherlett Creek water quality. Likewise, the post-construction performance metrics for the project will need to be based primarily on Sherlett Creek water quality. There are three possible approaches, used either individually or in combination, to set the metrics:

- apply existing regulatory criteria (e.g., MWQSOGs, MDMER effluent quality standards) as fixed objective concentrations;
- establish a fixed objective concentration for each parameter of interest based on model predictions; or
- establish a current background "plus" objective, represented by the current background condition plus an allowance to account for the predicted Camp Lake influence along with sampling and analytical uncertainty.

3.1 Regulatory Criteria Approach

Regulatory criteria to potentially consider include the Metal and Diamond Mining Effluent Regulations (MDMER; Minister of Justice 2020, current regulations at the time the analysis was conducted in early 2021) and the Manitoba Water Quality Standards Objectives and Guidelines (MWQSOGs; Manitoba Water Stewardship 2011).

The MDMER effluent quality standards represent the minimum acceptable effluent quality for an operating mine site, subject to the limitation that lower concentrations may be required at some sites to prevent adverse effects. The MDMER are not applicable to closed out mine sites – once a mine site attains "closed-out" status, the authorization to apply the MDMER standards is withdrawn by Environment Canada. The Sherridon site is approaching closed out status as a result of the reclamation project, consequently, the MDMER have not been considered further here.

The MWQSOGs are used by Manitoba to manage surface water quality and can be considered as reasonable potential performance metrics provided the background parameter concentration in Sherlett Creek does not already exceed the applicable criterion. However, concentrations of several key parameters (cadmium, copper, and zinc) almost always exceed the applicable MWQSOGs in Sherlett Creek (Table 1A in Appendix A), eliminating use of this approach for these parameters.

3.2 Fixed Objective Concentration

3.2.1 Model Prediction Approach

A fixed objective concentration for a parameter can also be assigned on the basis of water quality modelling predictions, provided that background concentrations are either:

- consistently much lower than the expected "project-affected" concentration, so that variations in background concentrations are relatively unimportant; or

- if background concentrations are similar to project-affected concentrations, that the background values are relatively constant so that variations in parameter concentrations can reasonably be attributed to the project and not to background variability.

Neither condition is fully met by water quality in Sherlett Creek. Predicted water quality in the Camp Lake discharge is very close to, or the same as, quality in Sherlett Creek, as noted in Section 2.0 above. Some key water quality parameters in Sherlett Creek also are particularly variable – coefficients of variation for cadmium, copper, and zinc have been in the range of 174% (Cu) to 310% (Zn) from 2017 through 2020 (Table 1A in Appendix A).

3.2.2 Site-Specific Objectives

Site-specific water quality objectives, developed on the basis of a statistical analysis of the site water quality data, also can be used to set performance objectives. However, the considerable variability of some key parameters means that unacceptably high site-specific objectives would be necessary for those parameters, as shown for cadmium, copper, and zinc (Table 1A in Appendix A).

The Sherlett Creek water characteristics discussed above in relation to the potential fixed concentration objectives mean this approach could only be applied for some of the key

parameters, and there is not a suitable fixed concentration objective that could be applied for any of cadmium, copper, and zinc – which are the primary parameters of concern with respect to the protection of aquatic life.

3.2.3 Background Plus Approach

The background plus approach to setting management thresholds accommodates variability in background parameter concentrations (in Sherlett Creek in this instance) by using current background water quality measurements to which a fixed increment is applied to account for sampling and analytical uncertainty and any predicted incremental contribution from the submerged mine waste.

Current background, or ambient, water quality in this specific case is a measurement made in Sherlett Creek within the last 7 days as the paired measurement in the Camp Lake discharge. In most cases, the measurements will be made the same day but some flexibility in timing is built into the approach to account for unforeseen circumstances (e.g., samples being lost or damaged in shipment, equipment breakdown, weather delay, etc.). This degree of "currency" in the paired measurements is necessary because water quality in Sherlett Creek can change quickly, particularly during lower flow periods when the highest concentrations of cadmium, copper, and zinc tend to occur in Sherlett Creek, as shown in DJRC (2018).

The "plus" component of the management threshold represents the magnitude of the difference from the current background value necessary for a difference in concentration between the Camp Lake discharge and Sherlett Creek to be considered a significant deviation from the prediction. The "plus" is determined in consideration of the sampling variability, analytical variability, and the predicted difference.

Analytical uncertainty needs to be included in the "plus" because all water quality analyses are subject to some small procedural variability. An allowance of +/- 10 to 15% is typically considered an acceptable level of variability, depending on the parameter (e.g., 10% for metals, 15% for TSS; Environment Canada 2012). The reader should keep in mind that this refers to analytical precision under ideal laboratory conditions and that +/- 10 to 15% variability can be expected in the analytical results for identical samples. Sampling variability also needs to be considered, since two samples taken from the same location at the same time will typically yield slightly different results. An allowance, expressed as the Relative Percent Difference (RPD), of +/- 25% is generally considered acceptable for paired replicate samples (e.g., CCME 2011) – with this allowance incorporating the analytical variability. On this basis, a difference of at least 25% is necessary to conclude that the measured concentrations in a pair of samples are different.

Finally, there is the need to consider the contribution of the submerged tailings, over and above that of the inflowing Sherlett Creek, to Camp Lake water quality. Based on the pre-construction modelling, three possible scenarios need to be considered: parameter concentrations that are unaffected by the submerged tailings (e.g., pH); concentrations that increase somewhat in passing through Camp Lake (e.g., copper and SO_4); and concentrations that decrease in passing over the tailings (e.g., zinc). Aluminum, cadmium, and iron were not modelled before

construction. Cadmium should perform similarly to zinc. Winter monitoring indicates aluminum and iron in Camp Lake follow concentrations in Sherlett Creek, inferring similar performance should be expected post-construction.

4.0 Proposed Water Quality Performance Objectives

The previous sections reviewed the potential water quality performance objectives. That analysis indicated that, for most parameters considered, it will be necessary to apply objectives developed using the Background "Plus" approach to accommodate the considerable variation in parameter concentration that occurs in Sherlett Creek. The only exceptions are pH and TSS, for which the applicable MWQSOG Tier II objectives are proposed (Table 1).

Table 1. Proposed Post-construction Camp Lake Water Quality Performance Objectives to be achieved within 4 years following completion of construction.

Parameter (units)	Proposed Camp Lake Water Quality Performance Objectives
pH, field (pH units)	$6.5 \leq pH \leq 9.0$[1]
Sulphate (mg/L)	Ambient SC-1 +7+25%[2,3]
TSS (mg/L)	11.5 mg/L[4]
Turbidity (NTU)	Ambient SC-1 + 25%
Fe (total) (mg/L)	Ambient SC-1 + 25%
Al (total) (mg/L)	Ambient SC-1 + 25%
Cd (total) (mg/L)	Ambient SC-1 + 25%
Cu (total) (mg/L)	Ambient SC-1 + 30%[5]
Zn (total) (mg/L)	Ambient SC-1 + 25%

1. MWQSOG Tier II Objective – determined to be reasonable n=based on pre-construction predictions and monitoring record.
2. Ambient SC-1 refers to the current concentration measured at Sherlett Creek station SC-1 within the last 7 days.
3. Based on pre-construction prediction (Figure 2) plus 25% allowance for analytical variation – Section 3.2.3.
4. MSWQOG Tier II Objective for SC-1 determined as per Appendix A and reasonable based on monitoring record.
5. Based on pre-construction prediction that total Cu concentrations in Camp Lake will be about 5% higher than in Sherlett Creek (Figure 3) plus 25% allowance for analytical variation as per section 3.2.3.

4.1 Application of the Performance Objectives

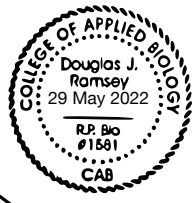
The water quality performance objectives should not be considered as regulatory limits. Their purpose is to provide a means for evaluating the performance of the reclamation works in comparison to the expectations developed during project planning. Once construction is completed, water quality in Camp Lake should be expected to gradually approach the objectives over a 3-to-4-year period. Water quality may improve to meet the objectives over a shorter period, but also may not.

The important diagnostic consideration is that the trend toward the objectives occurs, and at a rate of improvement such that there is a reasonable expectation that the objectives will be realized within 4 years of construction completion. Slow or absent improvement should trigger investigation of potential causes, which may or may not require the application of corrective or mitigative measures. Faster improvement than expected should move the monitoring program to confirmation monitoring followed by a reduced monitoring frequency.

5.0 Closure

We trust the water quality performance objectives developed herein address the needs for as specific a set of objectives as is possible in consideration of the site conditions and variations in upstream Sherlett Creek water quality. Should you have any questions regarding this memo, please contact the undersigned.

Sincerely,



Doug Ramsey, M.Sc. R.P.Bio
Principal Consultant

Third Party Disclaimer

The content of this document is not intended for the use of, nor is it intended to be relied upon by any person, firm, or corporation, other than the client and D.J. Ramsey Consulting Ltd. ("DJRC"). DJRC denies any liability whatsoever to other parties for damages or injury suffered by such third party arising from use of this document by them, without the express prior written authority of DJRC and our client. This document is subject to further restrictions imposed by the contract between the client and DJRC and these parties' permission must be sought regarding this document in all other circumstances.

Appendix A
Site-Specific Water Quality Objectives for Sherlett Creek

Site Specific Water Quality Objectives (SSWQOs) facilitate the detection of potential project-related effects on receiving water quality by accounting for site-specific physical, chemical, and biological factors that might make generic guidelines such as the MWQSOGs over-protective or under-protective.

The need for/suitability of site-specific water quality objectives as applied to Sherlett Creek was assessed for 8 of the key water quality parameters (pH, TSS, turbidity, and total iron, aluminum, cadmium, copper, and zinc) as follows based on the 2007-2020 data record.

- Data were first screened for evident outliers. All field duplicate values also were removed from the dataset.

- Values below the Reportable Detection Limit (RDL; i.e., the "less than" values) were replaced with a value equal to 0.50xRDL to calculate mean concentrations and other summary statistics. This is a convention in water quality data analysis.

- All data were then compared to the applicable generic guidelines (Table A1) and the following summary statistics were calculated for each parameter:

    - count (the total number of individual measurements);
    - count greater than the reportable detection limit (the total number of measurements that were above the "less than" value);
    - mean and median concentration;
    - count greater than the applicable generic guideline (total number of measurements, including less than RDL results, that were greater than the guideline); and,
    - count greater than both the RDL and the guideline (total number of measurements that were quantitatively detectable and were greater than the guideline).

These statistics facilitated the identification of parameters that were truly elevated relative to the guideline (i.e., those greater than both the RDL and the guideline) and the identification of problematic RDLs (i.e., RDLs that were higher than the applicable guideline) or RDLs that are higher than the ambient concentrations).

Naturally elevated parameters were identified as those that exceeded applicable guidelines at a frequency greater than 5%. Other factors considered in the identification of naturally elevated parameters included detectability (i.e., the proportion of samples with results greater than RDL) and the ratio of mean concentration to the guideline. Parameters found to exceed the applicable guidelines with a frequency of at least 5% and to exceed the applicable RDL in the majority (>50%) of samples were identified for SSWQO development.

Based on this screening analysis, the parameters fell into three categories: those never or rarely exceeding the generic guideline (pH, TSS, and turbidity); those periodically exceeding the generic guideline (Fe and Al); and those which typically exceeded the guideline (Cd, Cu, Zn). All of total iron, aluminum, cadmium, copper, and zinc were identified for SSWQO development.

The Background Concentration Procedure (BCP; CCME 2003) was employed to calculate preliminary SSWQOs. The BCP recognizes that it is not possible to meet generic water quality guidelines in surface waters where the natural concentrations of substances exceed the guidelines. Therefore, the BCP uses the site-specific monitoring data to determine the upper limit of background concentrations for the watercourse, water body, or watershed in question, which can be put forward as an SSWQO. Specific statistical procedures for defining the upper limit of background are not prescribed by CCME (2003), but typically involve a range of statistics that may define the upper 95% confidence limit of the mean concentration, including: the upper 95% confidence limit (mean + $t_{\alpha=0.05(1)}$*standard error of the mean), the mean + $t_{\alpha=0.05(1)}$*standard deviation of the mean, the mean + 2*standard deviation of the mean, the 90th or 95th percentile, or other alternatives as appropriate to the area under study (BCMELP 1997; CCME 1999).

The following summary statistics were calculated for each parameter identified as requiring the development of a SSWQO:

- sample size (count);
- sample size greater than the reportable detection limit;
- mean and median;
- standard deviation;
- standard error;
- mean + $t_{\alpha=0.05(1)}$* standard error;
- mean + $t_{\alpha=0.05(1)}$* standard deviation;
- mean + 2 * standard deviation; and,
- 95th percentile.

Water quality objectives can be used to achieve a number of water quality management goals, from maintaining average water quality to defining maximum parameter concentrations. Most typically, the objectives are used to set maximum allowable parameter concentrations in receiving waters. This type of objective is referred to as a Maximum BCP-SSWQO.

Three statistics (mean + $t_{\alpha=0.05(1)}$*standard deviation; mean + 2 standard deviations; and the 95th percentile) were examined for derivation of potential maximum BCP-SSWQOs for iron, aluminum, cadmium, copper, and zinc. Of these, the maximum BCP SSWQO based on the 95th percentile of the monitoring data provided the lowest frequency of exceedance for more of the

parameters (lowest for Fe and Al; tied for lowest for Cd and Cu; next to lowest for Zn) than either of the other measures.

Although the maximum BCP SSWQOs based on the 95th percentile have lower frequencies of exceedance than do the corresponding generic objectives, and by a very wide margin in some instances (e.g., cadmium, copper, and zinc) the occurrence of exceedances is not reduced to zero, with the natural frequency of exceedance remaining between 3% and 5% for all five parameters (Table A1).

Some of the 95th percentile BCPs derived above are particularly high in comparison to established water quality criteria. The BCPs for cadmium and copper are about 10X the applicable MWQSOGs and the BCP for zinc is about 153X the applicable MWQSOG. The zinc BCP also is about 2.4X the maximum acceptable monthly mean concentration specified under the MDMER and also exceeds the maximum acceptable concentration in a single grab sample by 18%.

Given the very high values of the BCPs for cadmium, copper, and zinc, these BCPs are not a useful tool for monitoring performance of the Sherridon project since they incorporate the very wide range of variation in Sherlett Creek water quality – variation that greatly exceeds the expected influence of Camp Lake flow-through on water quality. The values are so high they would never adequately detect poor Camp Lake performance. A more sensitive measure is needed, at least for Cd, Cu, and Zn.

Table A1. Sherlett Creek (SC-1) key parameter summary statistics, potential Maximum Background Concentration Procedure (BCP) Site Specific Water Quality Objectives (SSWQOs), and related Exceedance Reductions based on the 2017-2020 period of record.

Statistic	pH (field)	Turbidity	TSS	Fe[9]	Al[9]	Cd[9]	Cu[9]	Zn[9]
Summary Statistics								
Mean	7.15	2.1	2.0	0.27	0.060	0.00095	0.0209	0.383
Median	6.93	1.5	2.0	0.23	0.051	0.00031	0.0120	0.0980
Max	7.89	8.5	6.5	1.0	0.26	0.020	0.240	7.60
Min	6.59	0.5	0.5	0.099	0.027	0.00005	0.0005	0.0190
Count	80	87	91	101	101	101	101	101
Count >RDL	N/A	87	30	101	101	101	101	101
%>RDL	N/A	100%	33%	100%	100%	100%	100%	100%
MWQSOG[1]	6.5 to 9.0	8.1[3]	11.5[2]	0.30	0.10[4]	0.00018[5]	0.00598[6]	0.00771[7]
Count>MWQSOG[8]	0	1	0	14	9	89	93	100
%>MWQSOG[8]	0%	1%	0	14%	9%	92%	96%	99%
StDev.S				0.16	0.038	0.0029	0.0367	1.19
StDev.P				0.16	0.038	0.0029	0.0365	1.18
CV				57	63.6	304	176	310
SE				0.016	0.0038	0.00029	0.00365	0.118
2SD				0.31	0.076	0.0058	0.0734	2.38
Potential SSWQOs								
95% CI (SE)				0.304	0.0672	0.00152	0.0282	0.618
95% CI (SD)				0.584	0.136	0.00667	0.0938	2.74
Mean + 2 SD				0.586	0.137	0.00672	0.0943	2.76
95th Percentile				0.669	0.160	0.00179	0.0678	1.18
Exceedance Reductions for Each SSWQO								
Count>95% CI (SE)				14	21	7	9	8
Count>95% CI(SD)				9	7	4	4	4
Count>Mean + 2SD				9	7	4	4	4
Count>95th percentile				4	3	4	4	5
%>95% CI (SE)				14%	21%	7%	9%	8%
%>95% CI(SD)				9%	7%	4%	4%	4%
%>Mean + 2SD				9%	7%	4%	4%	4%
%>95th percentile				4%	3%	4%	4%	5%

1. MWQSOG – Manitoba Water Quality Standards Objectives and Guidelines (Manitoba Water Stewardship 2011)
2. TSS – MWQSOG Tier II Objective. Determined as highest value observed plus 5 mg/L
3. Turbidity – MWQSOG Tier II Objective. Calculated from the linear regression equation for turbidity on TSS (Turbidity = 0.69342 + 0.64783*TSS) using the TSS guideline of 11.5 mg/L
4. Al – MWQSOG Tier III Guideline for pH range ≥6.5
5. Cd – MWQSOG Tier II Chronic Exposure Objective – calculated as $[e^{\{0.7409[\ln(Hardness)]-4.719\}}]*[1.101672-\{\ln(Hardness)*(0.041838)\}]$ – values were calculated using hardness in Cold
6. Cu - MWQSOG Tier II Chronic Exposure Objective – calculated as $0.960*[e^{\{0.8545[\ln(Hardness)]-1.702\}}]$ – Cold L. hardness
7. Zn - MWQSOG Tier II Chronic Exposure Objective – calculated as $0.986*[e^{\{0.8473[\ln(Hardness)]+0.884\}}]$ – Cold L. hardness
8. For pH, refers to values both higher and lower than the MWQSOG guideline range
9. Total fraction

References

British Columbia Ministry of Environment, Lands, and Parks (BCMELP). 1997. Methods for Developing Site Specific Water Quality Objectives in British Columbia and Yukon. Report prepared for: Narender Nagpal, Water Management Branch, BC Ministry of Environment, Lands and Parks, Victoria, British Columbia. Report prepared by: Donald D. MacDonald, MacDonald Environmental Sciences Ltd., Nanaimo, British Columbia.

CCME (Canadian Council of Ministers of the Environment). 1999. Canadian environmental quality guidelines. Guidelines and Standards Division. Environment Canada. Winnipeg, Manitoba.

CCME. 2003. Guidance on the site-specific application of water quality guidelines in Canada: Procedures for deriving numerical water quality objectives. Canadian Council of Ministers of the Environment, Winnipeg, MB.

CCME. 2011. Protocols manual for water quality sampling in Canada. Canadian Council of Ministers of the Environment, Winnipeg, MB.

D.J. Ramsey Consulting (DJRC). 2018. Sherridon Orphaned Mine Reclamation Project – 2017 Water Quality Monitoring Program Summary. Report prepared for Tetra Tech Canada Inc., Winnipeg, MB. 29 June 2018.

D.J. Ramsey Consulting (DJRC). 2019. Sherridon Orphaned Mine Reclamation Project – 2018 Water Quality Monitoring Program Summary. Report prepared for Tetra Tech Canada Inc., Winnipeg, MB. 27 March 2019.

D.J. Ramsey Consulting (DJRC). 2020. Sherridon Orphaned Mine Reclamation Project – 2019 Water Quality Monitoring Program Summary. Report prepared for Tetra Tech Canada Inc., Winnipeg, MB. 27 May 2020.

D.J. Ramsey Consulting (DJRC). 2021. Sherridon Orphaned Mine Reclamation Project – 2020 Water Quality Monitoring Program Summary. Report prepared for Tetra Tech Canada Inc., Winnipeg, MB. 8 July 2021.

Environment Canada. 2012. Metal Mining Technical Guidance for Environmental Effects Monitoring. Environment Canada, Ottawa, ON. ISBN 978-1-100-20496-3

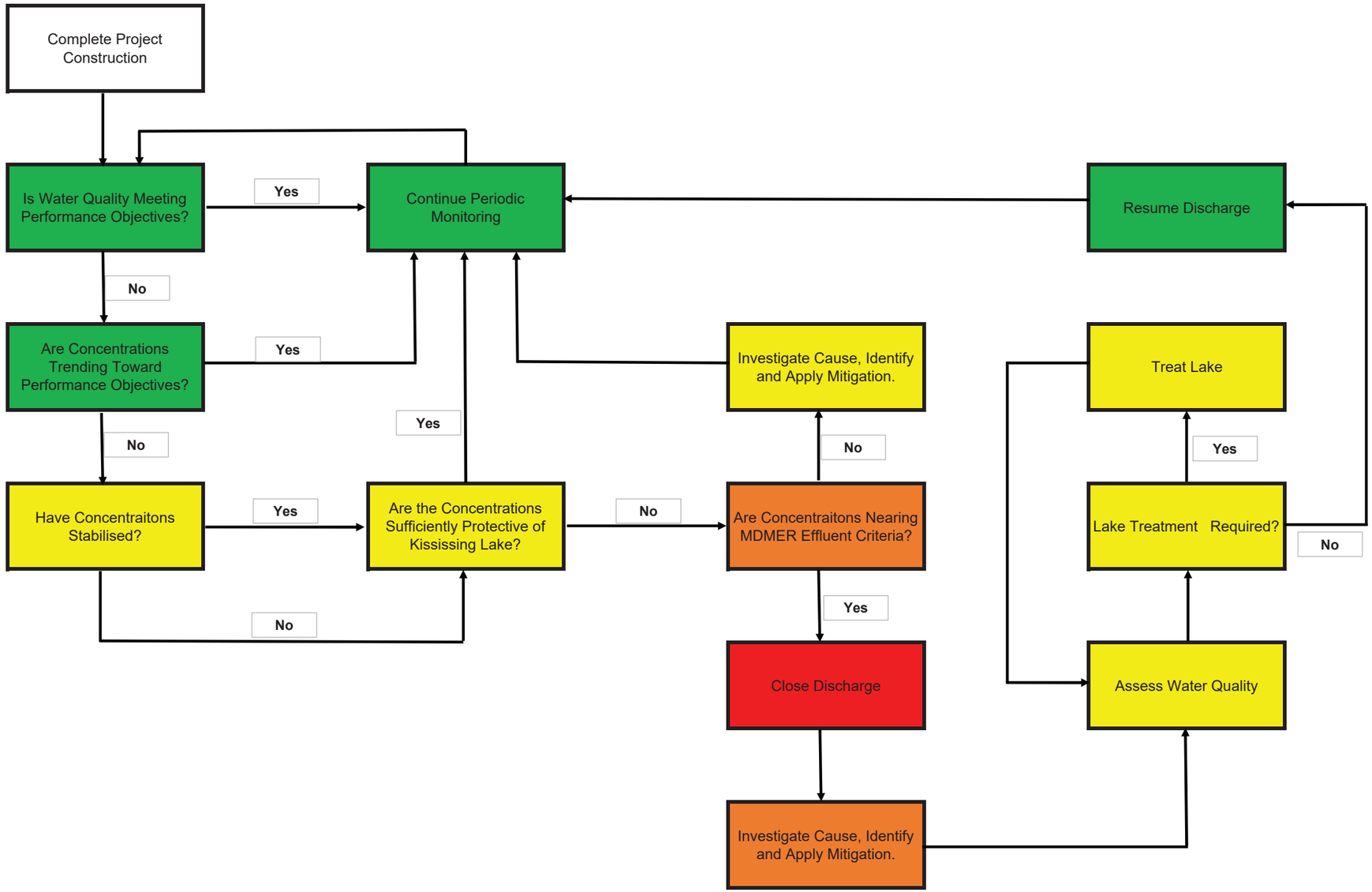
Manitoba Water Stewardship. 2011. Manitoba Water Quality Standards, Objectives, and Guidelines. Manitoba Water Stewardship report No. 2011-01, November 28, 2011.

Minister of Justice. 2020. Metal and Diamond Mining Effluent Regulations (SOR 2002/222). Published by the Minister of Justice at: http://laws-lois.justice.gc.ca. Current to February 24, 2021.

SENES Consultants Limited. 2008. Geochemical and Hydrogeological Assessment in Support of Sherridon Rehabilitation. Report prepared for Wardrop Engineering Inc., Winnipeg, MB, by SENES Consultants Limited, Richmond Hill, Ontario, December 2008.

APPENDIX F – DECISION FLOWSHEETS AND COLOUR CODING DEFINITION

Sherridon Reclamation Project - Post-Construction Water Quality Performance Evaluation Process



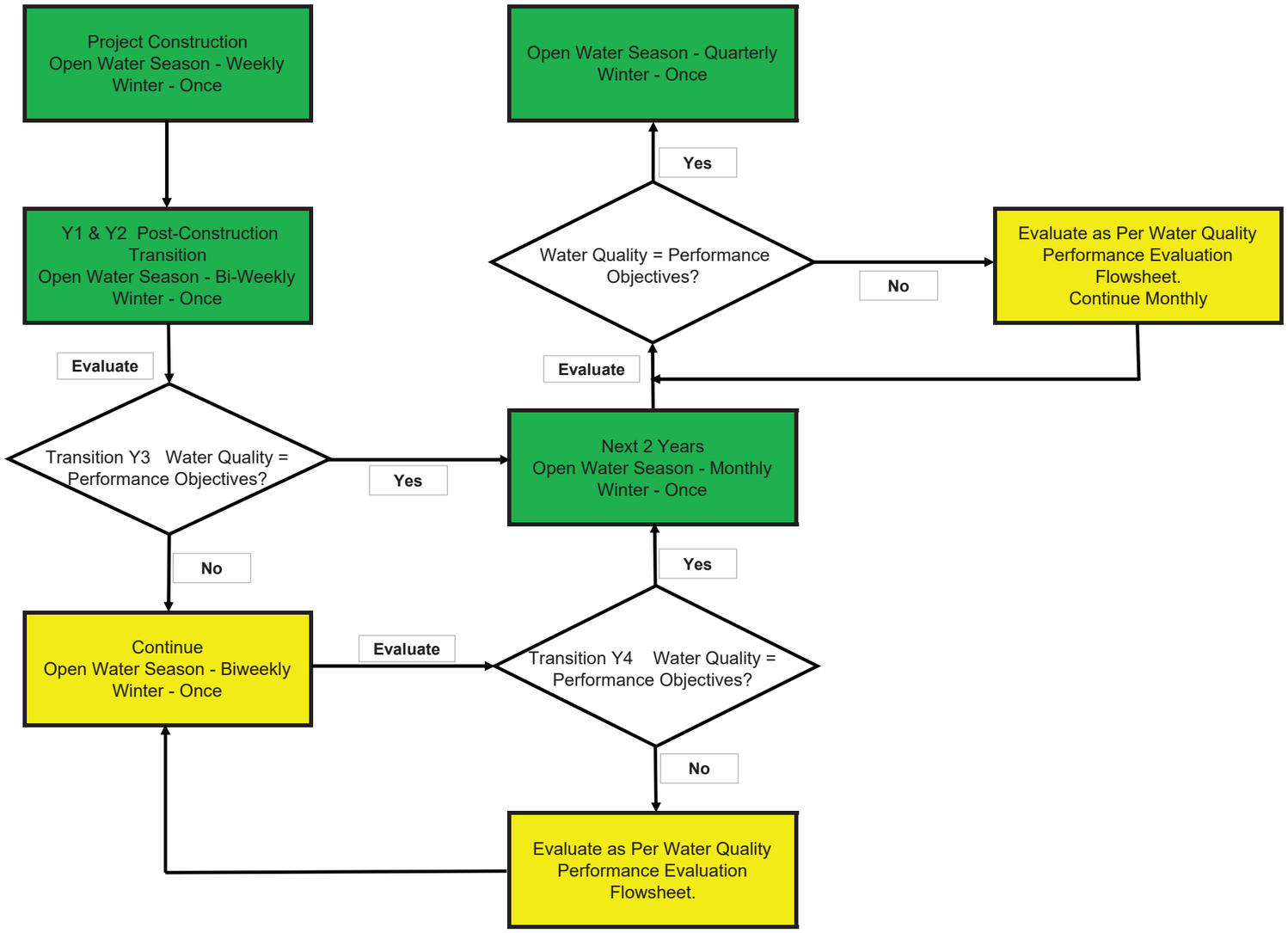
a. Green = Project is performing as planned, water quality is meeting project objectives or trending toward, normal monitoring, maintain regular communication schedule with stakeholders

b. Yellow = Project is performing as planned with no immediate risk to aquatic environment, but observations made of water quality trending away from project objectives, initiate investigation of cause, notify stakeholders of investigatory activities

c. Orange = Project is not performing as planned with increased potential of risk to aquatic environment if the issue is not addressed. Investigate and apply corrective action. Communication with project stakeholders should continue until resolved (frequency dependent on nature and timing of issue).

d. Red = Project is not performing as planned with potential for unacceptable risk to aquatic environment if the issue is not addressed. Response may include stopping the discharge, if appropriate to the issue, and immediate investigation of cause and application of corrective action as soon as possible. Frequent communication with stakeholders until resolved.

Sherridon Reclamation Project - Water Quality Monitoring Frequency



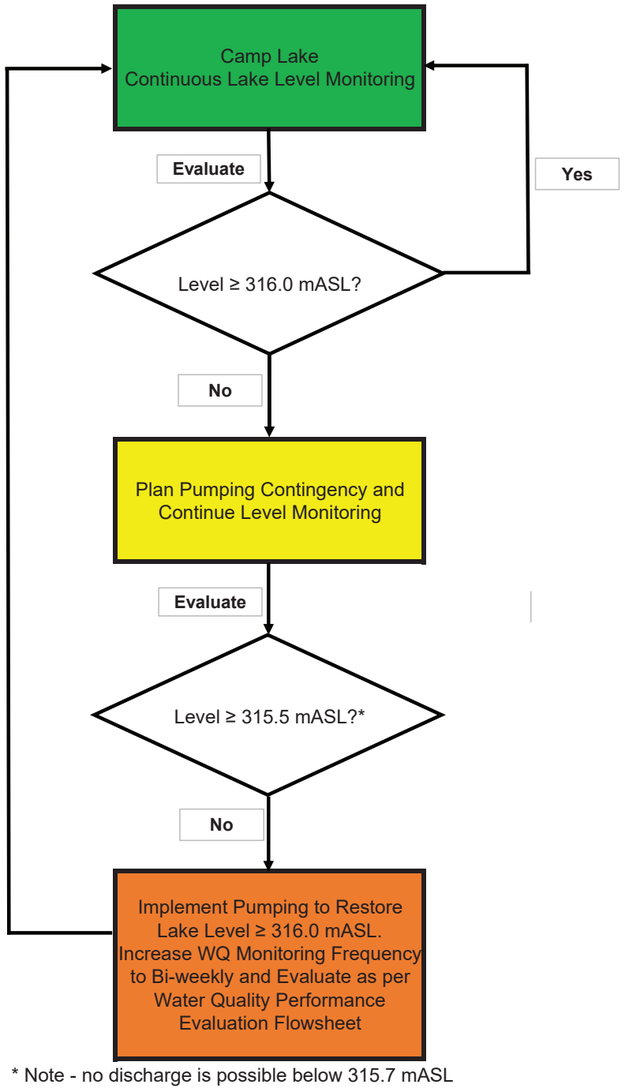
a. Green = Project is performing as planned, water quality is meeting project objectives or trending toward, normal monitoring, maintain regular communication schedule with stakeholders

b. Yellow = Project is performing as planned with no immediate risk to aquatic environment, but observations made of water quality trending away from project objectives, initiate investigation of cause, notify stakeholders of investigatory activities

c. Orange = Project is not performing as planned with increased potential of risk to aquatic environment if the issue is not addressed. Investigate and apply corrective action. Communication with project stakeholders should continue until resolved (frequency dependent on nature and timing of issue).

d. Red = Project is not performing as planned with potential for unacceptable risk to aquatic environment if the issue is not addressed. Response may include stopping the discharge, if appropriate to the issue, and immediate investigation of cause and application of corrective action as soon as possible. Frequent communication with stakeholders until resolved.

Sherridon Reclamation Project - Camp Lake Level Monitoring



* Note - no discharge is possible below 315.7 mASL

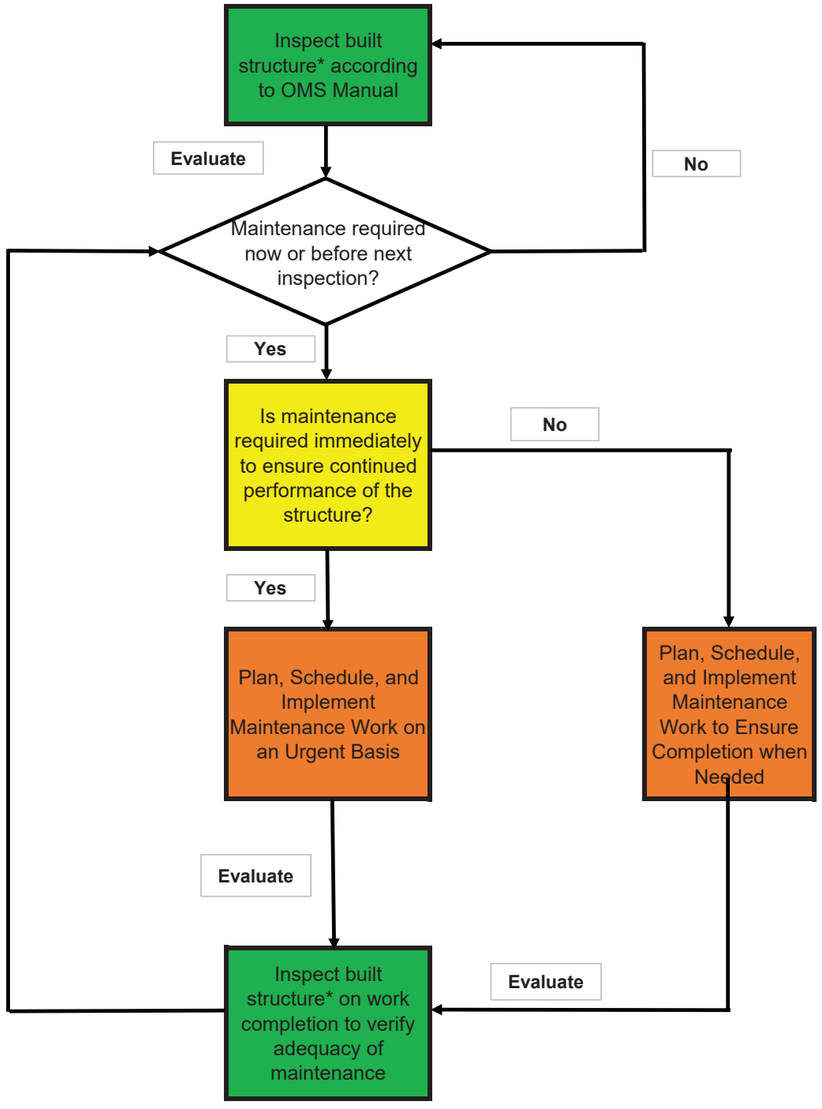
a. Green = Project is performing as planned, water quality is meeting project objectives or trending toward, normal monitoring, maintain regular communication schedule with stakeholders

b. Yellow = Project is performing as planned with no immediate risk to aquatic environment, but observations made of water quality trending away from project objectives, initiate investigation of cause, notify stakeholders of investigatory activities

c. Orange = Project is not performing as planned with increased potential of risk to aquatic environment if the issue is not addressed. Investigate and apply corrective action. Communication with project stakeholders should continue until resolved (frequency dependent on nature and timing of issue).

d. Red = Project is not performing as planned with potential for unacceptable risk to aquatic environment if the issue is not addressed. Response may include stopping the discharge, if appropriate to the issue, and immediate investigation of cause and application of corrective action as soon as possible. Frequent communication with stakeholders until resolved.

Sherridon Reclamation Project - Inspection and Maintenance of Built Structures



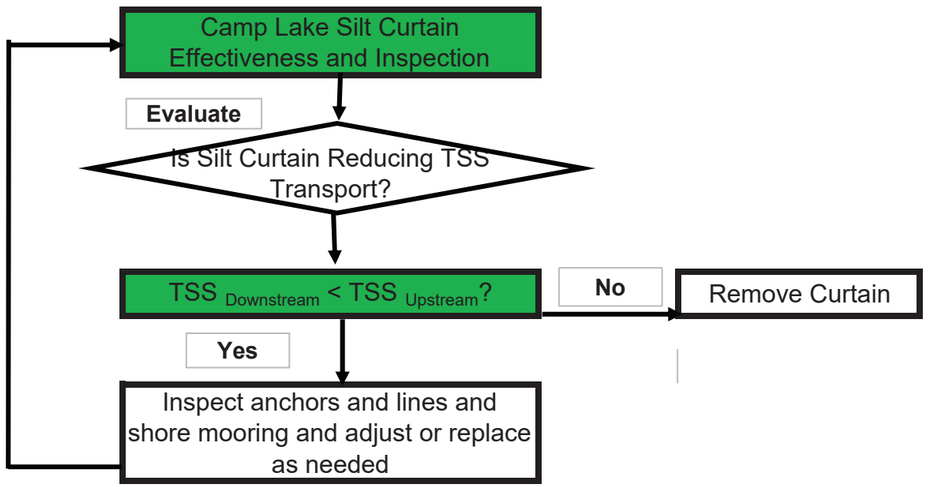
a. Green = Project is performing as planned, water quality is meeting project objectives or trending toward, normal monitoring, maintain regular communication schedule with stakeholders

b. Yellow = Project is performing as planned with no immediate risk to aquatic environment, but observations made of water quality trending away from project objectives, initiate investigation of cause, notify stakeholders of investigatory activities

c. Orange = Project is not performing as planned with increased potential of risk to aquatic environment if the issue is not addressed. Investigate and apply corrective action. Communication with project stakeholders should continue until resolved (frequency dependent on nature and timing of issue).

d. Red = Project is not performing as planned with potential for unacceptable risk to aquatic environment if the issue is not addressed. Response may include stopping the discharge, if appropriate to the issue, and immediate investigation of cause and application of corrective action as soon as possible. Frequent communication with stakeholders until resolved.

Sherridon Reclamation Project
Silt Curtain Inspection and Management



a. Green = Project is performing as planned, water quality is meeting project objectives or trending toward, normal monitoring, maintain regular communication schedule with stakeholders

b. Yellow = Project is performing as planned with no immediate risk to aquatic environment, but observations made of water quality trending away from project objectives, initiate investigation of cause, notify stakeholders of investigatory activities

c. Orange = Project is not performing as planned with increased potential of risk to aquatic environment if the issue is not addressed. Investigate and apply corrective action. Communication with project stakeholders should continue until resolved (frequency dependent on nature and timing of issue).

d. Red = Project is not performing as planned with potential for unacceptable risk to aquatic environment if the issue is not addressed. Response may include stopping the discharge, if appropriate to the issue, and immediate investigation of cause and application of corrective action as soon as possible. Frequent communication with stakeholders until resolved.

APPENDIX G – SAMPLE COMMUNICATIONS LOG

Communication Log: Sherridon Mine Site

Sherridon Community Council

Manitoba

Record of Communication

First Nation/Community: Sherridon Community Council
Representative:
Contact Information:

Band Office Phone:
Fax Number:

*Sherridon Community Council is a local community with Indigenous members, not a recognized First Nation Community

CURRENT TO:

Communication / Activity Log						
Date of Contact	**Manitoba Rep**	**FN / Community Rep**	**Method of Contact**	**Incoming / Outgoing**	**Summary/Action Items (include document ID if applicable)**	**Action Items / Follow-up**

APPENDIX B

Groundwater Well Logs

TETRA TECH

RECORD OF BOREHOLE

MW01-BR

Sheet 1 of 1

705-09240103-ALL

CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: January 26, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6110539

BOREHOLE LOCATION: 3.8 m northeast of intersection of Jowsey Street and Portage Road, north of community waste water treatment plant. EASTING: 366854

BORING METHOD	DEPTH SCALE m	DEPTH SCALE ft	ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)	MONITORING WELL MW01-BR
Auger - Solid Stem	0.00		323.67	Ground Surface								Steel Protective Casing 324.54
			323.27	***Organics*** Some fine-grained sand.								323.67
			0.40	***Silt*** Some clay, little fine-grained sand, brown, loose, low plasticity, moist.								Bentonite
	1	5	322.17									Solid 50 mm PVC
			1.50	***Clay*** Little silt, brown-grey, soft, medium plasticity, moist.								
	2	10	320.67									319.47
			3.00	***Silt*** Little clay, little fine-grained sand, brown, soft, non-plastic, moist.			C				7 5 4 5 2 8 1 3 1 2 3 1 2 1 2	319.15
	3		320.32									318.50 January 29, 2022
			3.35	***Bedrock*** Gneiss, very strong, black, slightly decomposed in upper fracture zones, moderately fractured from 3.3 m to 6 m, slightly fractured below 6 m depth. - Quartz seam at 4.98 m depth. - Quartz seam at 5.41 m depth.			C					
	4	15										
	5	20					C					
	6		316.79									Sand
	7	25	6.88	- Water bearing fracture with indications of white precipitate at 6.78 m depth.			C					Slotted 50 mm PVC
	8											
		30	314.50									
	9		9.17	- Water bearing fracture with indications of white precipitate at 9.07 m depth.			C					
	10	35	312.98									312.98
	11		10.69	***End of Borehole at 10.69m***								
	12	40										
	13											
	14	45										
	15	50										
	16											
	17	55										
	18											

Maple Leaf Drilling Ltd., B-54 Mobile
Coring

SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

TETRA TECH

RECORD OF BOREHOLE

MW02-BR

Sheet 1 of 1

705-09240103-ALL

CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: January 28, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6110440

BOREHOLE LOCATION: Southeast corner of Jowsey Street and Sherlett Drive Intersection. Approximately 20 m northwest of the Sherlett Creek bridge. EASTING: 366971

BORING METHOD	DEPTH SCALE m / ft	ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)	MONITORING WELL MW02-BR
Auger - Solid Stem / Coring (Maple Leaf Drilling Ltd., B-54 Mobile)	0.00 / 0	316.82	Ground Surface								Steel Protective Casing 317.78
		316.57 / 0.25	***Organics*** Little silt, black-brown.								316.82
	1 / 5		***Silt*** Trace clay, brown, soft, non-plastic, moist. - From 0.6 m to 1.6 m; grey, very soft. - From 1.6 m to 4.4 m; wet.								316.26 January 29, 2022
	2 / 10										Bentonite / Solid 50 mm PVC
	3 / 10										
	4	312.42 / 4.40									
	15	312.17 / 4.65	***Sand*** Fine-grained, wet.							0 1	311.62
	5 / 20		***Bedrock*** Gneiss, very stong, black, moderately fractured from 4.65 m to 5.7 m, slightly fractured below 5.7 m depth.			C				3 2	311.32
	6 / 20					C				1 2 4	
	7 / 25	309.18 / 7.64	- Water bearing fracture zone at 7.5 m depth.			C				4 3 2 3	Sand / Slotted 50 mm PVC
	8 / 30	308.12 / 8.70	- Granite intrusion from 8.5 m to 8.7 m depth.			C				7 5 2 1	
	9 / 30	307.72 / 9.10	- Quartz seam from 8.9 m to 9.0 m depth. - Water bearing fracture at 9.0 m depth.			C					307.35
	10 / 35	307.35 / 9.47	***End of Borehole at 9.47m***								
	11 / 40										
	12 / 40										
	13 / 45										
	14 / 45										
	15 / 50										
	16 / 50										
	17 / 55										
	18										

SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

TETRA TECH

RECORD OF BOREHOLE

MW03-OB

Sheet 1 of 1

705-09240103-ALL

CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: February 4, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6110369

BOREHOLE LOCATION: East edge of wetland area on south side of Sherlett Creek. Approximately 30 m southwest of the Sherlett Creek Bridge. EASTING: 366990

BORING METHOD	DEPTH SCALE m / ft	SUBSURFACE PROFILE: ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLES: SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)	MONITORING WELL MW03-BR
Maple Leaf Drilling Ltd., B-54 Mobile Auger - Solid Stem	0 / 0.00	317.28	Ground Surface								Steel Protective Casing 318.22; Solid 50 mm PVC
			Peat Black, moist.								317.28
		316.47									Bentonite
	1 / 5	0.81 315.98	***Silt*** Black, soft, non-plastic, moist.								316.52 Feb. 7, 2022
		1.30	***Silt*** Little clay, grey, soft, medium plasticity, moist.								316.08
	2 / 10		- From 2.21 m to 8.61 m; wet.								315.78
	3 / 10										
	4 / 15										
	5 / 15										Sand
	6 / 20										Slotted 50 mm PVC
	7 / 25										
	8 / 25	308.67									
	9 / 30	8.61 308.62	***Sand*** Fine-grained, wet.								308.62
	10 / 35	8.66	***End of Borehole at 8.66m*** Terminated at refusal on suspected bedrock.								
	11 / 35										
	12 / 40										
	13 / 45										
	14 / 45										
	15 / 50										
	16 / 50										
	17 / 55										
	18 / 55										

SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

TETRA TECH

RECORD OF BOREHOLE

MW04-BR

Sheet 1 of 1

705-09240103-ALL

CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: February 5, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6110396

BOREHOLE LOCATION: North side of Sherlett Creek, across from wetland area. Approximately 30 m southwest of the waste water treatment plant. EASTING: 366867

BORING METHOD	DEPTH SCALE m	DEPTH SCALE ft	ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)	MONITORING WELL MW04-BR
Auger - Solid Stem / Coring (Maple Leaf Drilling Ltd., B-54 Mobile)	0.00		317.00	Ground Surface								Steel Protective Casing 317.97
			316.39 (0.61)	***Topsoil*** Some organics, brown-black.								317.00
	1	5	316.19 (0.81)	***Silt*** Some clay, grey, soft, medium plasticity, moist.								316.63 February 6, 2022
			315.81 (1.19)	***Silt*** Little clay, grey, soft, low plasticity, wet.								
	2	10	314.71 (2.29)	***Peat*** Brown, moist.								Solid 50 mm PVC
	3		313.60 (3.40)	***Silt*** Little organics, brown, soft, non-plastic, wet.								
	4	15		***Silt*** Trace clay, grey, soft, non-plastic, wet. - From 3.68 m to 3.76 m; little clay.								Bentonite
	5											
	6	20										
	7			- From 7.06 m to 7.62 m; little small gravel.								
		25	309.38 (7.62)	- From 7.42 m to 7.62 m; some fine-grained sand.								307.86
	8			***Bedrock*** Gneiss, very stong, black, slightly fractured.			C				3 4 2 3	
	9	30					C				0 2 1	
	10										0 1	306.87
		35					C				2 1 2	Slotted 50 mm PVC
	11											Sand
	12	40					C				0 1	
	13		303.69 (13.31)	***End of Borehole at 13.31m***								303.69
	14	45										
	15											
		50										
	16											
	17	55										
	18											

SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

TETRA TECH

RECORD OF BOREHOLE

MW04-OB

Sheet 1 of 1

705-09240103-ALL

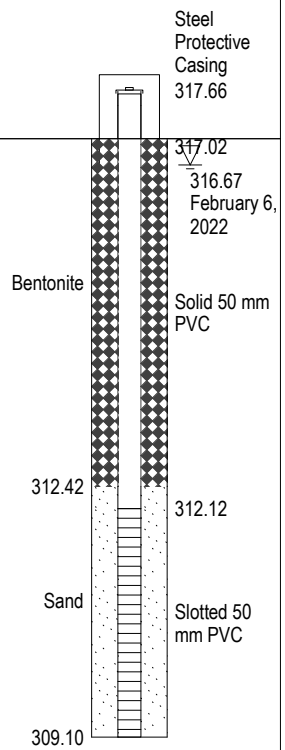
CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: February 5, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6110398

BOREHOLE LOCATION: North side of Sherlett Creek, across from wetland area. Approximately 30 m southwest of the waste water treatment plant. EASTING: 366866

Tetra Tech Canada Inc.
Auger - Solid Stem

BORING METHOD	DEPTH SCALE m	DEPTH SCALE ft	ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)	MONITORING WELL MW04-OB
	0.00		317.02	Ground Surface								
			316.41	***Topsoil*** Some organics, brown-black.								
			0.61									
	1		316.21	***Silt*** Some clay, grey, soft, medium plasticity, moist.								
			0.81									
		5	315.83	***Silt*** Little clay, grey, soft, low plasticity, wet.								
	2		1.19									
			314.73	***Peat*** Brown, moist.								
			2.29									
	3	10		***Silt*** Little organics, brown, soft, non-plastic, wet.								
			313.62									
			3.40	***Silt*** Trace clay, grey, soft, non-plastic, wet. - From 3.68 m to 3.76 m; little clay.								
	4	15										
	5											
	6	20										
	7			- From 7.06 m to 7.72 m; little small gravel.								
		25										
			309.10	- From 7.72 m to 7.92 m; some fine-grained sand.								
	8		7.92	***End of Borehole at 7.92m*** Terminated at refusal on suspected bedrock.								
	9	30										
	10											
		35										
	11											
	12	40										
	13											
		45										
	14											
	15	50										
	16											
		55										
	17											
	18											



SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

TETRA TECH

RECORD OF BOREHOLE

MW05-BR

Sheet 1 of 1

705-09240103-ALL

CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: February 5, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6110368

BOREHOLE LOCATION: South side of Sherlett creek and west of the wetland area. Approximately 75 m east of Portage Road. EASTING: 366711

BORING METHOD	DEPTH SCALE m	DEPTH SCALE ft	ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)	MONITORING WELL MW05-BR
Coring	0	0	325.32	Ground Surface								Steel Protective Casing 326.22
			325.02	***Silt***								325.32
			0.30	Some coarse-grained sand, trace small gravel, brown, loose, non-plastic, dry.			C				1 3 4	
	1	5	324.32								0 1 1	Bentonite
			1.00	***Bedrock***Gneiss, highly weathered, red-brown colouration, pyrite crystals, iron staining on fracture surfaces.							3	Solid 50 mm PVC
	2	10		***Bedrock*** Gneiss, very stong, black, slightly fractured. - Fracture zone with iron staining at 1.93 m depth.			C				0 1 0	322.32
	3										4	
	4	15		- Fracture zone with iron staining at 3.06 m depth.			C				3	
				- Fracture zone with iron staining at 4.6 m depth.							2 1	
	5			- Fracture zone with iron staining at 5.05 m depth.			C				2	▽ 319.72 February 6, 2022
	6	20									4 2	
											5 1	
	7			- Fracture zone with iron staining at 6.93 m depth.			C				2 1	
	8	25	317.06								3 1	
			8.26	***Bedrock*** Granite, Quartz rich, hard, white to pink coloured.			C				2	
			316.30								3	Sand 316.18
	9	30	9.02	***Bedrock*** Gneiss, very stong, black, slightly fractured.							2	
	10						C				6 1	
		35									3 0	
	11						C				1	
	12	40										Slotted 50 mm PVC
				- Red-brown discolouration from 12.5 m to 13.5 m depth.							0 1	
	13						C				0 1	
		45									2	
	14										0 1	
	15	50	310.08				C				1	310.08
			15.24	***End of Borehole at 15.24m***								
	16											
		55										
	17											
	18											

SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

Maple Leaf Drilling Ltd., B-54 Mobile

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

TETRA TECH

RECORD OF BOREHOLE

MW06-BR

Sheet 1 of 1

705-09240103-ALL

CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: February 3, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6110246

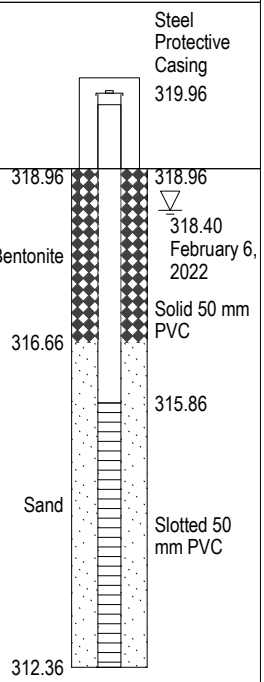
BOREHOLE LOCATION: Southern edge of the wetland to the south of Sherlett Creek, to the north of the apparent groundwater spring. EASTING: 366922

BORING METHOD: Maple Leaf Drilling Ltd., B-54 Mobile Auger - Solid Stem Coring

DEPTH SCALE m / ft

ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)
0.00 318.96	Ground Surface							
318.22 0.74	***Organics*** Trace silt, trace clay, black, moist.							
317.21 1.75	***Bedrock*** Granite, strong, pink, coarse grained, moderate fracturing. - Fracture zone from 1.4 m to 1.75 m depth, possibly water bearing.			C				4 3 6 / 2 3 / 1 2 3 / 2 1 2 / 1 2 4 / 2 3 4 / 3
314.76 4.20	- Water bearing facture at 4.1 m depth.							
314.36 4.60	***Bedrock*** Gneiss, very stong, black, slightly fractured.							
312.36 6.60	***End of Borehole at 6.60m***							

MONITORING WELL MW06-BR



SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

TETRA TECH

RECORD OF BOREHOLE

MW07-BR

Sheet 1 of 1

705-09240103-ALL

CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: January 31, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6110027

BOREHOLE LOCATION: South end of study area, Approximately 40 m east of the "Glory Hole". EASTING: 367243

BORING METHOD	DEPTH SCALE m	DEPTH SCALE ft	ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)	MONITORING WELL MW07-BR
Auger - Solid Stem Maple Leaf Drilling Ltd., B-54 Mobile Coring	0	0.00	327.17	Ground Surface								Steel Protective Casing 328.11
			326.33	***Silt*** Few small and large gravel, trace clay, brown, soft, low plasticity, moist.								327.17
	1	5	0.84	***Bedrock*** Gneiss, very strong, black, slightly fractured.			C				5 2 1 2	Bentonite Solid 50 mm PVC
	2						C				0 2	
	3	10	323.17				C				7 5 4 4	324.53 324.72 Feb.. 5, 2022
	4	15	4.00	***Bedrock*** Granite, strong, pink, coarse grained, moderate fracturing.							2	
	5		322.27 4.90	- Water bearing fracture at 4.7 m depth.			C				1 2	
	6	20	321.77 5.40	***Bedrock*** Gneiss, very strong, black, slightly fractured.							1	Sand Slotted 50 mm PVC
				Bedrock Granite, quartz rich strong, white, coarse grained, moderate fracturing. - Gneiss seam from 5.7 m to 5.8 m depth.			C				3 1 2 3 2	
	7	25	319.76 7.41									
	8						C				4	
	9	30	317.97 9.20	- Water bearing fracture at 9.1 m depth.			C					317.77
			317.82 9.35	***End of Borehole at 9.40m***								
	10	35										
	11											
	12	40										
	13											
	14	45										
	15											
	16	50										
	17	55										
	18											

SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

TETRA TECH

RECORD OF BOREHOLE

MW08-BR

Sheet 1 of 1

705-09240103-ALL

CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: January 30, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6109904

BOREHOLE LOCATION: South end of study area, on ridge area approximately 120 m south of the "Glory Hole" EASTING: 367205

BORING METHOD	DEPTH SCALE m	DEPTH SCALE ft	ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)	MONITORING WELL MW08-BR
Auger - Solid Stem Coring	0.00		334.54	Ground Surface								Steel Protective Casing 335.46
			333.74 0.80	***Silt*** Some fine-grained sand, trace small gravel, light brown, loose, non-plastic, dry.			C				4 2	334.54
	1	5	333.09 1.45	***Bedrock*** Granite, quartz rich strong, white, coarse grained, weathered to 0.9 m depth.							4 5	
	2			***Bedrock*** Gneiss, very strong, black, slightly fractured.			C				2 0	
	3	10	331.19 3.35	- Water bearing fracture zone at 3.2 m depth. Iron staining of exposed fracture surfaces.			C				5 4 1	331.27 January 31, 2022
	4											Bentonite
	5	15					C				1 2 0	
	6	20					C				2 4 2	Solid 50 mm PVC
	7						C				1 2	
	8	25		- Multiple fracture zones between 7.7 m and 8.8 m depth with indications of water.			C				1 2	
	9	30	325.74 8.80 325.64 8.90	***Bedrock*** Granite, strong, pink, coarse grained, moderate fracturing.			C				1 2	325.88 325.55
	10		324.94 9.60	***Bedrock*** Granite, quartz rich strong, white, coarse grained, weathered to 0.9 m depth.			C				0 1 2	
	11	35					C				4 2	
	12	40					C				1 2	Slotted 50 mm PVC Sand
	13		321.34 13.20	***Bedrock*** Granite, strong, pink, coarse grained, moderate fracturing.			C				1 2	
	14	45	320.24 14.30	- Granite colour changes to dark red at 13.8 m depth.			C				4 1	
	15	50	319.44 15.10	***Bedrock*** Gneiss, very strong, black, slightly fractured.								319.45
	16			***End of Borehole at 15.09m***								
	17	55										
	18											

SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

Maple Leaf Drilling Ltd., B-54 Mobile

TETRA TECH

RECORD OF BOREHOLE

MW09-OB

Sheet 1 of 1

705-09240103-ALL

CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: January 28, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6110304

BOREHOLE LOCATION: Central portion of the wetland area to the south of Sherlett Creek. EASTING: 366912

BORING METHOD	DEPTH SCALE m / ft	ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)	MONITORING WELL MW09-OB
Maple Leaf Drilling Ltd., B-54 Mobile Auger - Solid Stem	0.00 / 0	317.50	Ground Surface								Steel Protective Casing 318.34
			Peat Little silt, black, moist.		MW-09-OB (0.25-0.35)	A					317.50
	1 / 5				MW-09-OB (1.50-1.75)	A					317.42 January 23, 2022
		315.50									Bentonite
	2 / 10	2.00	***Silt*** Trace clay, grey, very soft, high plasticity, moist.		MW-09-OB (2.75-3.00)	A					Solid 50 mm PVC
	3 / 15		- From 3 m to 5.5 m; wet.								314.50
	4 / 20				MW-09-OB (4.25-4.50)	A					314.20
	5 / 25	312.00	- From 5.25 m to 5.5 m; little fine-grained sand.		MW-09-OB (5.25-5.50)	A					Sand
		5.50	***End of Borehole at 5.50m*** Terminated at refusal on suspected bedrock.								Slotted 50 mm PVC
	6 / 30										311.90
	7 / 35										
	8 / 40										
	9 / 45										
	10 / 50										
	11 / 55										
	12 / 60										
	13 / 65										
	14 / 70										
	15 / 75										
	16 / 80										
	17 / 85										
	18 / 90										

SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

TETRA TECH

RECORD OF BOREHOLE

MW10-OB

Sheet 1 of 1

705-09240103-ALL

CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: January 29, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6110273

BOREHOLE LOCATION: South-central portion of wetland area to the south of Sherlett Creek. EASTING: 366915

BORING METHOD	DEPTH SCALE m / ft	SUBSURFACE PROFILE: ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLES: SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)	MONITORING WELL MW10-OB
Maple Leaf Drilling Ltd., B-54 Mobile Auger - Solid Stem	0.00 / 0	318.15	Ground Surface								Steel Protective Casing 319.05
		317.85 / 0.30	***Peat*** Trace small gravel, orange-red, moist.		MW-10-OB (0.10-0.35)	A				0 0 0 0	318.15
	1 / 5	317.45 / 0.70	***Peat*** Trace silt, black, moist.		MW-10-OB (0.70-0.95)	A					Bentonite
		316.95 / 1.20	***Clay*** Little peat, black.								316.15
	2 / 10		***Silt*** Trace clay, grey, very soft, high plasticity, moist.		MW-10-OB (2.3-2.55)	A					315.75
			- From 2.8 m to 5.2 m; wet.								
	3 / 10		- From 3.2 m to 5.2 m; little fine-grained sand, trace small gravel, trace coarse-grained sand.		MW-10-OB (3.20-3.45)	A	Metals		FAIL		Sand
	4 / 15										Slotted 50 mm PVC
	5	312.97 / 5.18	***End of Borehole at 5.18m*** Terminated at refusal on suspected bedrock.		MW-10-OB (4.8-5.05)	A					312.97
	6 / 20										
	7 / 25										
	8 / 25										
	9 / 30										
	10 / 35										
	11 / 35										
	12 / 40										
	13 / 45										
	14 / 45										
	15 / 50										
	16 / 50										
	17 / 55										
	18										

SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

TETRA TECH

RECORD OF BOREHOLE

MW11-OB

Sheet 1 of 1

705-09240103-ALL

CLIENT: Manitoba Environment, Climate and Parks DATE DRILLED: January 29, 2022 DATUM: Geodetic

PROJECT TITLE: Sherridon Phased Groundwater Assessment PROJECT SITE: Sherridon, Manitoba NORTHING: 6110306

BOREHOLE LOCATION: North-central portion of wetland area to the south of Sherlett Creek. EASTING: 366893

BORING METHOD	DEPTH SCALE m / ft	ELEV DEPTH (m)	DESCRIPTION	SYMBOLS	SAMPLE NAME	SAMPLE TYPE	LAB TESTING (Primary)	LAB TESTING (Secondary)	GUIDELINE COMPARISON	No. of Fractures/ 0.3 m (2 4 6 8)	MONITORING WELL MW11-OB
Maple Leaf Drilling Ltd., B-54 Mobile Auger - Solid Stem	0.00 / 0	317.27	Ground Surface								Steel Protective Casing 318.04
		317.02 / 0.25	***Peat*** Trace small gravel, trace coarse-grained sand, orange-red, moist.		MW-11-OB (0.70-0.95)	A					317.27
	1 / 5	315.47 / 1.80	***Peat*** Little silt, trace small-grained and coarse-grained sand, black, wet.								317.19 February 1, 2022
	2 / 10	314.77 / 2.50	***Silt*** Some peat, trace clay, black, soft, low plasticity, wet.		MW-11-OB (2.20-2.45)	A					Bentonite / Solid 50 mm PVC
	3 / 10		***Silt*** Trace clay, grey, very soft, non-plastic, wet.		MW-11-OB (3.30-3.50)	A	Metals		FAIL		313.67
	4 / 15										313.47
	5 / 20				MW-11-OB (4.70-4.95)	A					Sand / Slotted 50 mm PVC
	6 / 20	310.47			MW-11-OB (6.20-6.45)	A					310.47
	7 / 25	6.80	***End of Borehole at 6.80m*** Terminated at refusal on suspected bedrock.								
	8 / 25										
	9 / 30										
	10 / 35										
	11 / 35										
	12 / 40										
	13 / 45										
	14 / 45										
	15 / 50										
	16 / 50										
	17 / 55										
	18										

SCALE 1: 100.0 LOGGED BY: MR CHECKED BY: BH

TETRA TECH CANADA LOG - ANALYTICAL 705-09240103-ALL-BOR-V0001-00 SHERRIDON -X-SECT.GPJ 22-5-26

APPENDIX C.1

Laboratory Certificates of Analysis – Biweekly

Surface Water Quality

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 717398-01-01, 717398-02-01, 717398-03-01

Report Date: 2024/02/29
Report #: R3469440
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C412576
Received: 2024/02/22, 12:40

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	28	N/A	2024/02/26	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	28	N/A	2024/02/28		Auto Calc
Cadmium - low level CCME (Total) (1)	28	N/A	2024/02/28		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	28	N/A	2024/02/26	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	20	N/A	2024/02/28	AB SOP-00087	MMCW 119 1996 m
Carbon (DOC) -Lab Filtered (1, 2)	8	N/A	2024/02/29	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	14	N/A	2024/02/27		Auto Calc
Hardness (1)	14	N/A	2024/02/28		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	10	N/A	2024/02/28	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	18	N/A	2024/02/29	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	14	N/A	2024/02/26	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 4)	14	N/A	2024/02/27	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	10	2024/02/27	2024/02/27	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	13	2024/02/27	2024/02/28	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	5	2024/02/27	2024/02/29	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	28	N/A	2024/02/27	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	21	2024/02/27	2024/02/27	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	7	2024/02/27	2024/02/28	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	28	N/A	2024/02/26	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	21	N/A	2024/02/28	AB SOP-00087	MMCW 119 1996 m
Carbon (Total Organic) (1, 7)	7	N/A	2024/02/29	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	17	2024/02/26	2024/02/28	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	8	2024/02/27	2024/02/27	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	3	2024/02/29	2024/02/29	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	25	N/A	2024/02/23	CAL SOP-00081	SM 24 2130 B m

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 717398-01-01, 717398-02-01, 717398-03-01

Report Date: 2024/02/29
Report #: R3469440
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C412576
Received: 2024/02/22, 12:40

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Turbidity (1)	3	N/A	2024/02/29	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 717398-01-01, 717398-02-01, 717398-03-01

Report Date: 2024/02/29
Report #: R3469440
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C412576
Received: 2024/02/22, 12:40

(7) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ293		CJQ294			CJQ294		
Sampling Date		2024/02/21 11:23		2024/02/21 10:52			2024/02/21 10:52		
COC Number		717398-01-01		717398-01-01			717398-01-01		
	UNITS	SC-1	QC Batch	SB-1	RDL	QC Batch	SB-1 Lab-Dup	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.064	B293198	0.69	0.020	B293198			
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.010	B295223	0.011	0.0030	B295227	0.011	0.0030	B295227
Dissolved Antimony (Sb)	mg/L	<0.00060	B295223	<0.00060	0.00060	B295227	<0.00060	0.00060	B295227
Dissolved Arsenic (As)	mg/L	0.00063	B295223	0.00030	0.00020	B295227	0.00028	0.00020	B295227
Dissolved Barium (Ba)	mg/L	<0.010	B294849	0.022	0.010	B294828			
Dissolved Beryllium (Be)	mg/L	<0.0010	B295223	<0.0010	0.0010	B295227	<0.0010	0.0010	B295227
Dissolved Boron (B)	mg/L	<0.020	B294849	<0.020	0.020	B294828			
Dissolved Calcium (Ca)	mg/L	12	B294849	91	0.30	B294828			
Dissolved Chromium (Cr)	mg/L	<0.0010	B295223	<0.0010	0.0010	B295227	<0.0010	0.0010	B295227
Dissolved Cobalt (Co)	mg/L	<0.00030	B295223	0.00057	0.00030	B295227	0.00055	0.00030	B295227
Dissolved Copper (Cu)	mg/L	0.0029	B295223	0.012	0.0010	B295227	0.011	0.0010	B295227
Dissolved Iron (Fe)	mg/L	0.10	B294849	<0.060	0.060	B294828			
Dissolved Lead (Pb)	mg/L	<0.00020	B295223	<0.00020	0.00020	B295227	<0.00020	0.00020	B295227
Dissolved Lithium (Li)	mg/L	<0.020	B294849	0.022	0.020	B294828			
Dissolved Magnesium (Mg)	mg/L	3.8	B294849	14	0.20	B294828			
Dissolved Manganese (Mn)	mg/L	0.025	B294849	0.14	0.0040	B294828			
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B295223	<0.00020	0.00020	B295227	<0.00020	0.00020	B295227
Dissolved Nickel (Ni)	mg/L	<0.00050	B295223	0.0017	0.00050	B295227	0.0016	0.00050	B295227
Dissolved Phosphorus (P)	mg/L	<0.10	B294849	<0.10	0.10	B294828			
Dissolved Potassium (K)	mg/L	1.9	B294849	7.2	0.30	B294828			
Dissolved Selenium (Se)	mg/L	<0.00020	B295223	<0.00020	0.00020	B295227	<0.00020	0.00020	B295227
Dissolved Silicon (Si)	mg/L	1.5	B294849	1.2	0.50	B294828			
Dissolved Silver (Ag)	mg/L	<0.00010	B295223	<0.00010	0.00010	B295227	<0.00010	0.00010	B295227
Dissolved Sodium (Na)	mg/L	5.1	B294849	5.2	0.50	B294828			
Dissolved Strontium (Sr)	mg/L	0.031	B294849	0.092	0.020	B294828			
Dissolved Sulphur (S)	mg/L	1.9	B294849	84	0.20	B294828			
Dissolved Thallium (Tl)	mg/L	<0.00020	B295223	<0.00020	0.00020	B295227	<0.00020	0.00020	B295227
Dissolved Tin (Sn)	mg/L	<0.0010	B295223	<0.0010	0.0010	B295227	<0.0010	0.0010	B295227
Dissolved Titanium (Ti)	mg/L	<0.0010	B295223	<0.0010	0.0010	B295227	<0.0010	0.0010	B295227
Dissolved Uranium (U)	mg/L	<0.00010	B295223	<0.00010	0.00010	B295227	<0.00010	0.00010	B295227

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ293		CJQ294			CJQ294		
Sampling Date		2024/02/21 11:23		2024/02/21 10:52			2024/02/21 10:52		
COC Number		717398-01-01		717398-01-01			717398-01-01		
	UNITS	**SC-1**	**QC Batch**	**SB-1**	**RDL**	**QC Batch**	**SB-1 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B295223	<0.0010	0.0010	B295227	<0.0010	0.0010	B295227
Dissolved Zinc (Zn)	mg/L	0.047	B295223	0.21	0.0030	B295227	0.21	0.0030	B295227

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ295	CJQ296	CJQ297	CJQ298	CJQ299	CJQ300		
Sampling Date		2024/02/21 10:57	2024/02/21 10:23	2024/02/21 10:30	2024/02/21 10:36	2024/02/21 10:44	2024/02/21 10:13		
COC Number		717398-01-01	717398-01-01	717398-01-01	717398-01-01	717398-01-01	717398-01-01		
	UNITS	SB-2	CB-1	CB-2	EB-1	EB-2	NB-1	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.68	0.62	0.68	0.74	0.83	0.68	0.020	B293198
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.012	0.0064	0.0069	0.0069	0.015	0.0082	0.0030	B295223
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B295223
Dissolved Arsenic (As)	mg/L	0.00024	0.00025	0.00032	0.00027	0.00029	0.00032	0.00020	B295223
Dissolved Barium (Ba)	mg/L	0.022	0.020	0.022	0.023	0.026	0.024	0.010	B294849
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295223
Dissolved Boron (B)	mg/L	0.022	<0.020	0.022	0.022	0.024	0.023	0.020	B294849
Dissolved Calcium (Ca)	mg/L	94	87	92	100	110	98	0.30	B294849
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295223
Dissolved Cobalt (Co)	mg/L	0.00055	0.00052	0.00049	0.00041	0.00073	0.00052	0.00030	B295223
Dissolved Copper (Cu)	mg/L	0.012	0.010	0.011	0.011	0.013	0.011	0.0010	B295223
Dissolved Iron (Fe)	mg/L	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	0.060	B294849
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	0.00021	<0.00020	<0.00020	<0.00020	0.00020	B295223
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B294849
Dissolved Magnesium (Mg)	mg/L	15	14	14	17	17	15	0.20	B294849
Dissolved Manganese (Mn)	mg/L	0.15	0.14	0.14	0.13	0.16	0.15	0.0040	B294849
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295223
Dissolved Nickel (Ni)	mg/L	0.0014	0.0015	0.0016	0.0018	0.0020	0.0016	0.00050	B295223
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B294849
Dissolved Potassium (K)	mg/L	7.6	6.9	7.5	8.1	8.7	7.9	0.30	B294849
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295223
Dissolved Silicon (Si)	mg/L	1.2	1.2	1.2	1.2	1.2	1.2	0.50	B294849
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B295223
Dissolved Sodium (Na)	mg/L	5.1	4.8	5.0	5.5	5.8	5.4	0.50	B294849
Dissolved Strontium (Sr)	mg/L	0.098	0.089	0.096	0.10	0.11	0.10	0.020	B294849
Dissolved Sulphur (S)	mg/L	83	83	86	96	100	94	0.20	B294849
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295223
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295223
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295223
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B295223
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295223

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ295	CJQ296	CJQ297	CJQ298	CJQ299	CJQ300		
Sampling Date		2024/02/21 10:57	2024/02/21 10:23	2024/02/21 10:30	2024/02/21 10:36	2024/02/21 10:44	2024/02/21 10:13		
COC Number		717398-01-01	717398-01-01	717398-01-01	717398-01-01	717398-01-01	717398-01-01		
	UNITS	**SB-2**	**CB-1**	**CB-2**	**EB-1**	**EB-2**	**NB-1**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.21	0.19	0.21	0.25	0.24	0.20	0.0030	B295223
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ301	CJQ302	CJQ303	CJQ304	CJQ305	CJQ306		
Sampling Date		2024/02/21 10:19	2024/02/21 10:05	2024/02/21 09:28	2024/02/21 09:25	2024/02/21 09:36	2024/02/21 09:33		
COC Number		717398-01-01	717398-01-01	717398-02-01	717398-02-01	717398-02-01	717398-02-01		
	UNITS	NB-2	CLD	CL-3 SFC	CL-3 BTM	CL-7 SFC	CL-7 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.62	0.69	0.023	0.024	0.062	0.036	0.020	B293198
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.0061	0.0073	0.0036	0.0032	0.0041	0.0039	0.0030	B295223
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B295223
Dissolved Arsenic (As)	mg/L	0.00029	0.00029	0.00062	0.00061	0.00061	0.00058	0.00020	B295223
Dissolved Barium (Ba)	mg/L	0.021	0.024	0.010	0.010	0.010	<0.010	0.010	B294849
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295223
Dissolved Boron (B)	mg/L	<0.020	0.022	<0.020	<0.020	<0.020	<0.020	0.020	B294849
Dissolved Calcium (Ca)	mg/L	91	99	14	13	14	13	0.30	B294849
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295223
Dissolved Cobalt (Co)	mg/L	0.00052	0.00047	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B295223
Dissolved Copper (Cu)	mg/L	0.0096	0.0093	0.0035	0.0032	0.0049	0.0036	0.0010	B295223
Dissolved Iron (Fe)	mg/L	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	0.060	B294849
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295223
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B294849
Dissolved Magnesium (Mg)	mg/L	14	16	4.2	4.2	4.2	4.3	0.20	B294849
Dissolved Manganese (Mn)	mg/L	0.15	0.15	<0.0040	<0.0040	<0.0040	<0.0040	0.0040	B294849
Dissolved Molybdenum (Mo)	mg/L	0.00095	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295223
Dissolved Nickel (Ni)	mg/L	0.0015	0.0016	<0.00050	<0.00050	0.00061	<0.00050	0.00050	B295223
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B294849
Dissolved Potassium (K)	mg/L	7.3	8.1	2.0	1.8	2.0	1.8	0.30	B294849
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295223
Dissolved Silicon (Si)	mg/L	1.2	1.2	0.55	0.55	0.55	0.54	0.50	B294849
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B295223
Dissolved Sodium (Na)	mg/L	4.9	5.4	2.7	2.5	2.7	2.6	0.50	B294849
Dissolved Strontium (Sr)	mg/L	0.094	0.10	0.037	0.037	0.037	0.037	0.020	B294849
Dissolved Sulphur (S)	mg/L	82	90	4.4	4.4	4.6	4.5	0.20	B294849
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295223
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295223
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295223
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B295223
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295223

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ301	CJQ302	CJQ303	CJQ304	CJQ305	CJQ306		
Sampling Date		2024/02/21 10:19	2024/02/21 10:05	2024/02/21 09:28	2024/02/21 09:25	2024/02/21 09:36	2024/02/21 09:33		
COC Number		717398-01-01	717398-01-01	717398-02-01	717398-02-01	717398-02-01	717398-02-01		
	UNITS	**NB-2**	**CLD**	**CL-3 SFC**	**CL-3 BTM**	**CL-7 SFC**	**CL-7 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.19	0.20	0.0097	0.0088	0.014	0.010	0.0030	B295223
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ307		CJQ308	CJQ309	CJQ310	CJQ311		
Sampling Date		2024/02/21 09:18		2024/02/21 09:15	2024/02/21 09:46	2024/02/21 09:43	2024/02/21 09:08		
COC Number		717398-02-01		717398-02-01	717398-02-01	717398-02-01	717398-02-01		
	UNITS	CL-8 SFC	QC Batch	CL-8 BTM	CL-2 SFC	CL-2 BTM	CL-4 SFC	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.034	B293198	<0.020	0.070	0.051	0.063	0.020	B293198
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.0034	B295223	0.0030	0.0040	0.011	0.0033	0.0030	B295227
Dissolved Antimony (Sb)	mg/L	<0.00060	B295223	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B295227
Dissolved Arsenic (As)	mg/L	0.00050	B295223	0.00058	0.00056	0.00039	0.00050	0.00020	B295227
Dissolved Barium (Ba)	mg/L	<0.010	B294849	0.010	0.012	0.011	0.011	0.010	B294828
Dissolved Beryllium (Be)	mg/L	<0.0010	B295223	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Boron (B)	mg/L	<0.020	B294849	<0.020	<0.020	<0.020	<0.020	0.020	B294828
Dissolved Calcium (Ca)	mg/L	13	B294849	13	13	17	13	0.30	B294828
Dissolved Chromium (Cr)	mg/L	<0.0010	B295223	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Cobalt (Co)	mg/L	<0.00030	B295223	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B295227
Dissolved Copper (Cu)	mg/L	0.0038	B295223	0.0032	0.0051	0.0052	0.0048	0.0010	B295227
Dissolved Iron (Fe)	mg/L	<0.060	B294849	<0.060	<0.060	0.24	<0.060	0.060	B294828
Dissolved Lead (Pb)	mg/L	<0.00020	B295223	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Lithium (Li)	mg/L	<0.020	B294849	<0.020	<0.020	<0.020	<0.020	0.020	B294828
Dissolved Magnesium (Mg)	mg/L	4.1	B294849	3.9	4.0	4.2	4.1	0.20	B294828
Dissolved Manganese (Mn)	mg/L	<0.0040	B294849	<0.0040	<0.0040	0.014	<0.0040	0.0040	B294828
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B295223	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Nickel (Ni)	mg/L	<0.00050	B295223	<0.00050	0.00071	0.00067	<0.00050	0.00050	B295227
Dissolved Phosphorus (P)	mg/L	<0.10	B294849	<0.10	<0.10	<0.10	<0.10	0.10	B294828
Dissolved Potassium (K)	mg/L	1.9	B294849	1.7	1.9	1.9	2.0	0.30	B294828
Dissolved Selenium (Se)	mg/L	<0.00020	B295223	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Silicon (Si)	mg/L	0.54	B294849	0.55	0.61	1.1	0.57	0.50	B294828
Dissolved Silver (Ag)	mg/L	<0.00010	B295223	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B295227
Dissolved Sodium (Na)	mg/L	2.6	B294849	2.6	2.8	2.5	2.9	0.50	B294828
Dissolved Strontium (Sr)	mg/L	0.036	B294849	0.034	0.035	0.034	0.035	0.020	B294828
Dissolved Sulphur (S)	mg/L	4.5	B294849	4.6	4.6	9.4	4.9	0.20	B294828
Dissolved Thallium (Tl)	mg/L	<0.00020	B295223	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Tin (Sn)	mg/L	<0.0010	B295223	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Titanium (Ti)	mg/L	<0.0010	B295223	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Uranium (U)	mg/L	<0.00010	B295223	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B295227
Dissolved Vanadium (V)	mg/L	<0.0010	B295223	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295227

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ307		CJQ308	CJQ309	CJQ310	CJQ311		
Sampling Date		2024/02/21 09:18		2024/02/21 09:15	2024/02/21 09:46	2024/02/21 09:43	2024/02/21 09:08		
COC Number		717398-02-01		717398-02-01	717398-02-01	717398-02-01	717398-02-01		
	UNITS	**CL-8 SFC**	**QC Batch**	**CL-8 BTM**	**CL-2 SFC**	**CL-2 BTM**	**CL-4 SFC**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.010	B295223	0.010	0.015	0.017	0.013	0.0030	B295227
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ312	CJQ313	CJQ314	CJQ315	CJQ316	CJQ317		
Sampling Date		2024/02/21 09:03	2024/02/21 08:56	2024/02/21 08:52	2024/02/21 08:38	2024/02/21 08:42	2024/02/21		
COC Number		717398-02-01	717398-03-01	717398-03-01	717398-03-01	717398-03-01	717398-03-01		
	UNITS	CL-4 BTM	CL-5 SFC	CL-5 BTM	CL-6 SFC	CL-6 BTM	SW-101	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.036	0.090	0.028	0.029	0.028	0.072	0.020	B293198
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.013	0.0056	0.0050	0.0036	0.0044	0.0040	0.0030	B295227
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B295227
Dissolved Arsenic (As)	mg/L	0.00042	0.00059	0.00049	0.00065	0.00049	0.00056	0.00020	B295227
Dissolved Barium (Ba)	mg/L	0.010	0.011	0.011	0.011	0.010	0.012	0.010	B294828
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B294828
Dissolved Calcium (Ca)	mg/L	17	13	13	14	13	13	0.30	B294828
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B295227
Dissolved Copper (Cu)	mg/L	0.0054	0.0045	0.0039	0.0041	0.0040	0.0050	0.0010	B295227
Dissolved Iron (Fe)	mg/L	0.30	<0.060	<0.060	<0.060	<0.060	<0.060	0.060	B294828
Dissolved Lead (Pb)	mg/L	<0.00020	0.00042	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B294828
Dissolved Magnesium (Mg)	mg/L	4.2	4.0	3.9	4.2	3.8	4.0	0.20	B294828
Dissolved Manganese (Mn)	mg/L	0.0082	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0040	B294828
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00056	<0.00050	<0.00050	<0.00050	0.00064	0.00050	B295227
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B294828
Dissolved Potassium (K)	mg/L	1.9	1.8	1.7	2.0	1.7	1.8	0.30	B294828
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Silicon (Si)	mg/L	1.3	0.58	0.68	0.54	0.62	0.57	0.50	B294828
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B295227
Dissolved Sodium (Na)	mg/L	2.5	2.6	2.6	2.8	2.5	2.7	0.50	B294828
Dissolved Strontium (Sr)	mg/L	0.034	0.034	0.033	0.036	0.033	0.035	0.020	B294828
Dissolved Sulphur (S)	mg/L	10	4.7	4.8	4.8	4.6	4.8	0.20	B294828
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B295227
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B295227

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ312	CJQ313	CJQ314	CJQ315	CJQ316	CJQ317		
Sampling Date		2024/02/21 09:03	2024/02/21 08:56	2024/02/21 08:52	2024/02/21 08:38	2024/02/21 08:42	2024/02/21		
COC Number		717398-02-01	717398-03-01	717398-03-01	717398-03-01	717398-03-01	717398-03-01		
	UNITS	**CL-4 BTM**	**CL-5 SFC**	**CL-5 BTM**	**CL-6 SFC**	**CL-6 BTM**	**SW-101**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.017	0.016	0.015	0.013	0.014	0.014	0.0030	B295227
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ318	CJQ319	CJQ336		
Sampling Date		2024/02/21	2024/02/21	2024/02/21		
COC Number		717398-03-01	717398-03-01	717398-01-01		
	UNITS	SW-100	SW-102	TRIP BLANK	RDL	QC Batch
Elements						
Dissolved Cadmium (Cd)	ug/L	0.76	0.67	<0.020	0.020	B293198
Lab Filtered Elements						
Dissolved Aluminum (Al)	mg/L	0.0063	0.0073	<0.0030	0.0030	B295227
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	0.00060	B295227
Dissolved Arsenic (As)	mg/L	0.00027	0.00030	<0.00020	0.00020	B295227
Dissolved Barium (Ba)	mg/L	0.024	0.024	<0.010	0.010	B294828
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Boron (B)	mg/L	<0.020	<0.020	<0.020	0.020	B294828
Dissolved Calcium (Ca)	mg/L	100	95	<0.30	0.30	B294828
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Cobalt (Co)	mg/L	0.00045	0.00047	<0.00030	0.00030	B295227
Dissolved Copper (Cu)	mg/L	0.012	0.0097	<0.0010	0.0010	B295227
Dissolved Iron (Fe)	mg/L	<0.060	<0.060	<0.060	0.060	B294828
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	0.020	B294828
Dissolved Magnesium (Mg)	mg/L	16	15	<0.20	0.20	B294828
Dissolved Manganese (Mn)	mg/L	0.13	0.16	<0.0040	0.0040	B294828
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Nickel (Ni)	mg/L	0.0019	0.0018	<0.00050	0.00050	B295227
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	0.10	B294828
Dissolved Potassium (K)	mg/L	8.3	7.7	<0.30	0.30	B294828
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Silicon (Si)	mg/L	1.3	1.2	<0.50	0.50	B294828
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B295227
Dissolved Sodium (Na)	mg/L	5.8	5.4	<0.50	0.50	B294828
Dissolved Strontium (Sr)	mg/L	0.10	0.096	<0.020	0.020	B294828
Dissolved Sulphur (S)	mg/L	93	90	<0.20	0.20	B294828
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B295227
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B295227
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B295227
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B295227

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CJQ318	CJQ319	CJQ336		
Sampling Date		2024/02/21	2024/02/21	2024/02/21		
COC Number		717398-03-01	717398-03-01	717398-01-01		
	UNITS	**SW-100**	**SW-102**	**TRIP BLANK**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.25	0.20	<0.0030	0.0030	B295227
RDL = Reportable Detection Limit						

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ293			CJQ294	CJQ295	CJQ296		
Sampling Date		2024/02/21 11:23			2024/02/21 10:52	2024/02/21 10:57	2024/02/21 10:23		
COC Number		717398-01-01			717398-01-01	717398-01-01	717398-01-01		
	UNITS	SC-1	RDL	QC Batch	SB-1	SB-2	CB-1	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.087	0.020	B292891	0.86	0.77	0.64	0.020	B292891
Total Aluminum (Al)	mg/L	0.057	0.0030	B295864	0.041	0.045	0.026	0.0030	B295854
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B295864	<0.00060	<0.00060	<0.00060	0.00060	B295854
Total Arsenic (As)	mg/L	0.00059	0.00020	B295864	0.00040	0.00037	0.00034	0.00020	B295854
Total Barium (Ba)	mg/L	0.010	0.010	B295874	0.020	0.019	0.019	0.010	B295860
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B295864	<0.0010	<0.0010	<0.0010	0.0010	B295854
Total Boron (B)	mg/L	<0.020	0.020	B295874	0.021	0.021	<0.020	0.020	B295860
Total Calcium (Ca)	mg/L	11	0.30	B295874	82	77	75	0.30	B295860
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B295864	<0.0010	<0.0010	<0.0010	0.0010	B295854
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B295864	0.00070	0.00061	0.00053	0.00030	B295854
Total Copper (Cu)	mg/L	0.0041	0.0010	B295864	0.016	0.016	0.012	0.0010	B295854
Total Iron (Fe)	mg/L	0.21	0.060	B295874	0.75	0.98	0.58	0.090	B295860
Total Lead (Pb)	mg/L	<0.00020	0.00020	B295864	0.00078	0.00045	0.00053	0.00020	B295854
Total Lithium (Li)	mg/L	<0.020	0.020	B295874	<0.020	<0.020	<0.020	0.020	B295860
Total Magnesium (Mg)	mg/L	3.2	0.20	B295874	12	11	11	0.20	B295860
Total Manganese (Mn)	mg/L	0.026	0.0040	B295874	0.14	0.13	0.13	0.0040	B295860
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B295864	<0.00020	<0.00020	<0.00020	0.00020	B295854
Total Nickel (Ni)	mg/L	0.00062	0.00050	B295864	0.0021	0.0019	0.0017	0.00050	B295854
Total Phosphorus (P)	mg/L	<0.10	0.10	B295874	<0.10	<0.10	<0.10	0.10	B295860
Total Potassium (K)	mg/L	1.6	0.30	B295874	6.5	6.1	6.0	0.30	B295860
Total Selenium (Se)	mg/L	<0.00020	0.00020	B295864	<0.00020	<0.00020	<0.00020	0.00020	B295854
Total Silicon (Si)	mg/L	1.7	0.50	B295874	1.4	1.4	1.3	0.50	B295860
Total Silver (Ag)	mg/L	<0.00010	0.00010	B295864	<0.00010	<0.00010	<0.00010	0.00010	B295854
Total Sodium (Na)	mg/L	4.6	0.50	B295874	4.6	4.3	4.3	0.50	B295860
Total Strontium (Sr)	mg/L	0.026	0.020	B295874	0.071	0.066	0.066	0.020	B295860
Total Sulphur (S)	mg/L	1.9	0.20	B295874	92	88	86	0.20	B295860
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B295864	<0.00020	<0.00020	<0.00020	0.00020	B295854
Total Tin (Sn)	mg/L	<0.0010	0.0010	B295864	<0.0010	<0.0010	<0.0010	0.0010	B295854
Total Titanium (Ti)	mg/L	0.0021	0.0010	B295864	<0.0010	0.0012	<0.0010	0.0010	B295854
Total Uranium (U)	mg/L	<0.00010	0.00010	B295864	<0.00010	<0.00010	<0.00010	0.00010	B295854
Total Vanadium (V)	mg/L	<0.0010	0.0010	B295864	<0.0010	<0.0010	<0.0010	0.0010	B295854

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ293			CJQ294	CJQ295	CJQ296		
Sampling Date		2024/02/21 11:23			2024/02/21 10:52	2024/02/21 10:57	2024/02/21 10:23		
COC Number		717398-01-01			717398-01-01	717398-01-01	717398-01-01		
	UNITS	**SC-1**	**RDL**	**QC Batch**	**SB-1**	**SB-2**	**CB-1**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.056	0.0030	B295864	0.27	0.25	0.20	0.0030	B295854
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ297			CJQ298		CJQ299		
Sampling Date		2024/02/21 10:30			2024/02/21 10:36		2024/02/21 10:44		
COC Number		717398-01-01			717398-01-01		717398-01-01		
	UNITS	CB-2	RDL	QC Batch	EB-1	QC Batch	EB-2	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.82	0.020	B292891	1.1	B293199	0.97	0.020	B293200
Total Aluminum (Al)	mg/L	0.025	0.0030	B295854	0.038	B295864	0.049	0.0030	B295864
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B295854	<0.00060	B295864	<0.00060	0.00060	B295864
Total Arsenic (As)	mg/L	0.00031	0.00020	B295854	0.00043	B295864	0.00037	0.00020	B295864
Total Barium (Ba)	mg/L	0.021	0.010	B295860	0.022	B295874	0.024	0.010	B295874
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B295854	<0.0010	B295864	<0.0010	0.0010	B295864
Total Boron (B)	mg/L	0.021	0.020	B295860	0.022	B295874	0.025	0.020	B295874
Total Calcium (Ca)	mg/L	84	0.30	B295860	92	B295874	97	0.30	B295874
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B295854	<0.0010	B295864	<0.0010	0.0010	B295864
Total Cobalt (Co)	mg/L	0.00060	0.00030	B295854	0.00061	B295864	0.00082	0.00030	B295864
Total Copper (Cu)	mg/L	0.014	0.0010	B295854	0.018	B295864	0.018	0.0010	B295864
Total Iron (Fe)	mg/L	0.56	0.090	B295860	0.68	B295874	1.1	0.060	B295874
Total Lead (Pb)	mg/L	<0.00020	0.00020	B295854	<0.00020	B295864	<0.00020	0.00020	B295864
Total Lithium (Li)	mg/L	<0.020	0.020	B295860	<0.020	B295874	<0.020	0.020	B295874
Total Magnesium (Mg)	mg/L	13	0.20	B295860	15	B295874	14	0.20	B295874
Total Manganese (Mn)	mg/L	0.14	0.0040	B295860	0.12	B295874	0.15	0.0040	B295874
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B295854	<0.00020	B295864	<0.00020	0.00020	B295864
Total Nickel (Ni)	mg/L	0.0019	0.00050	B295854	0.0026	B295864	0.0023	0.00050	B295864
Total Phosphorus (P)	mg/L	<0.10	0.10	B295860	<0.10	B295874	<0.10	0.10	B295874
Total Potassium (K)	mg/L	6.7	0.30	B295860	7.3	B295874	7.7	0.30	B295874
Total Selenium (Se)	mg/L	<0.00020	0.00020	B295854	<0.00020	B295864	<0.00020	0.00020	B295864
Total Silicon (Si)	mg/L	1.4	0.50	B295860	1.3	B295874	1.3	0.50	B295874
Total Silver (Ag)	mg/L	<0.00010	0.00010	B295854	<0.00010	B295864	<0.00010	0.00010	B295864
Total Sodium (Na)	mg/L	4.7	0.50	B295860	5.2	B295874	5.3	0.50	B295874
Total Strontium (Sr)	mg/L	0.073	0.020	B295860	0.090	B295874	0.097	0.020	B295874
Total Sulphur (S)	mg/L	95	0.20	B295860	92	B295874	98	0.20	B295874
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B295854	<0.00020	B295864	<0.00020	0.00020	B295864
Total Tin (Sn)	mg/L	<0.0010	0.0010	B295854	<0.0010	B295864	<0.0010	0.0010	B295864
Total Titanium (Ti)	mg/L	<0.0010	0.0010	B295854	0.0012	B295864	<0.0010	0.0010	B295864
Total Uranium (U)	mg/L	<0.00010	0.00010	B295854	<0.00010	B295864	<0.00010	0.00010	B295864
Total Vanadium (V)	mg/L	<0.0010	0.0010	B295854	<0.0010	B295864	<0.0010	0.0010	B295864

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ297			CJQ298		CJQ299		
Sampling Date		2024/02/21 10:30			2024/02/21 10:36		2024/02/21 10:44		
COC Number		717398-01-01			717398-01-01		717398-01-01		
	UNITS	**CB-2**	**RDL**	**QC Batch**	**EB-1**	**QC Batch**	**EB-2**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.24	0.0030	B295854	0.34	B295864	0.28	0.0030	B295864
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ300		CJQ301		CJQ302	CJQ303		
Sampling Date		2024/02/21 10:13		2024/02/21 10:19		2024/02/21 10:05	2024/02/21 09:28		
COC Number		717398-01-01		717398-01-01		717398-01-01	717398-02-01		
	UNITS	NB-1	QC Batch	NB-2	QC Batch	CLD	CL-3 SFC	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.81	B293200	0.74	B293200	0.67	0.028	0.020	B293200
Total Aluminum (Al)	mg/L	0.029	B295854	0.031	B295854	0.035	0.0097	0.0030	B295854
Total Antimony (Sb)	mg/L	<0.00060	B295854	<0.00060	B295854	<0.00060	<0.00060	0.00060	B295854
Total Arsenic (As)	mg/L	0.00040	B295854	0.00029	B295854	0.00038	0.00062	0.00020	B295854
Total Barium (Ba)	mg/L	0.022	B295860	0.020	B295860	0.020	<0.010	0.010	B295860
Total Beryllium (Be)	mg/L	<0.0010	B295854	<0.0010	B295854	<0.0010	<0.0010	0.0010	B295854
Total Boron (B)	mg/L	0.022	B295860	0.020	B295860	0.020	<0.020	0.020	B295860
Total Calcium (Ca)	mg/L	89	B295860	81	B295860	83	11	0.30	B295860
Total Chromium (Cr)	mg/L	<0.0010	B295854	<0.0010	B295854	<0.0010	<0.0010	0.0010	B295854
Total Cobalt (Co)	mg/L	0.00063	B295854	0.00061	B295854	0.00050	<0.00030	0.00030	B295854
Total Copper (Cu)	mg/L	0.013	B295854	0.012	B295854	0.011	0.0040	0.0010	B295854
Total Iron (Fe)	mg/L	0.78	B295860	0.67	B295860	1.2	<0.090	0.090	B295860
Total Lead (Pb)	mg/L	<0.00020	B295854	<0.00020	B295854	<0.00020	<0.00020	0.00020	B295854
Total Lithium (Li)	mg/L	<0.020	B295860	<0.020	B295860	<0.020	<0.020	0.020	B295860
Total Magnesium (Mg)	mg/L	13	B295860	12	B295860	13	3.4	0.20	B295860
Total Manganese (Mn)	mg/L	0.15	B295860	0.15	B295860	0.15	<0.0040	0.0040	B295860
Total Molybdenum (Mo)	mg/L	<0.00020	B295854	<0.00020	B298842	<0.00020	<0.00020	0.00020	B295854
Total Nickel (Ni)	mg/L	0.0020	B295854	0.0019	B295854	0.0016	0.00062	0.00050	B295854
Total Phosphorus (P)	mg/L	<0.10	B295860	<0.10	B295860	<0.10	<0.10	0.10	B295860
Total Potassium (K)	mg/L	7.1	B295860	6.4	B295860	6.6	1.6	0.30	B295860
Total Selenium (Se)	mg/L	<0.00020	B295854	<0.00020	B295854	<0.00020	<0.00020	0.00020	B295854
Total Silicon (Si)	mg/L	1.5	B295860	1.4	B295860	1.4	0.66	0.50	B295860
Total Silver (Ag)	mg/L	<0.00010	B295854	<0.00010	B295854	<0.00010	<0.00010	0.00010	B295854
Total Sodium (Na)	mg/L	5.0	B295860	4.6	B295860	4.7	2.3	0.50	B295860
Total Strontium (Sr)	mg/L	0.078	B295860	0.070	B295860	0.072	0.029	0.020	B295860
Total Sulphur (S)	mg/L	100	B295860	91	B295860	96	4.8	0.20	B295860
Total Thallium (Tl)	mg/L	<0.00020	B295854	<0.00020	B295854	<0.00020	<0.00020	0.00020	B295854
Total Tin (Sn)	mg/L	<0.0010	B295854	<0.0010	B295854	<0.0010	<0.0010	0.0010	B295854
Total Titanium (Ti)	mg/L	0.0011	B295854	<0.0010	B295854	0.0017	<0.0010	0.0010	B295854
Total Uranium (U)	mg/L	<0.00010	B295854	<0.00010	B295854	<0.00010	<0.00010	0.00010	B295854
Total Vanadium (V)	mg/L	<0.0010	B295854	<0.0010	B295854	<0.0010	<0.0010	0.0010	B295854

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ300		CJQ301		CJQ302	CJQ303		
Sampling Date		2024/02/21 10:13		2024/02/21 10:19		2024/02/21 10:05	2024/02/21 09:28		
COC Number		717398-01-01		717398-01-01		717398-01-01	717398-02-01		
	UNITS	**NB-1**	**QC Batch**	**NB-2**	**QC Batch**	**CLD**	**CL-3 SFC**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.24	B295854	0.22	B295854	0.20	0.011	0.0030	B295854
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ304	CJQ305			CJQ306		
Sampling Date		2024/02/21 09:25	2024/02/21 09:36			2024/02/21 09:33		
COC Number		717398-02-01	717398-02-01			717398-02-01		
	UNITS	CL-3 BTM	CL-7 SFC	RDL	QC Batch	CL-7 BTM	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.036	0.073	0.020	B293200	0.040	0.020	B293200
Total Aluminum (Al)	mg/L	0.013	0.022	0.0030	B295864	0.015	0.0030	B295854
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B295864	<0.00060	0.00060	B295854
Total Arsenic (As)	mg/L	0.00084	0.00084	0.00020	B295864	0.00080	0.00020	B295854
Total Barium (Ba)	mg/L	0.010	0.011	0.010	B295874	0.010	0.010	B295860
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B295864	<0.0010	0.0010	B295854
Total Boron (B)	mg/L	<0.020	<0.020	0.020	B295874	<0.020	0.020	B295860
Total Calcium (Ca)	mg/L	12	12	0.30	B295874	12	0.30	B295860
Total Chromium (Cr)	mg/L	<0.0010	0.0014	0.0010	B295864	<0.0010	0.0010	B295854
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	0.00030	B295864	<0.00030	0.00030	B295854
Total Copper (Cu)	mg/L	0.0047	0.0068	0.0010	B295864	0.0048	0.0010	B295854
Total Iron (Fe)	mg/L	<0.060	0.066	0.060	B295874	<0.090	0.090	B295860
Total Lead (Pb)	mg/L	<0.00020	0.0011	0.00020	B295864	0.00027	0.00020	B295854
Total Lithium (Li)	mg/L	<0.020	<0.020	0.020	B295874	<0.020	0.020	B295860
Total Magnesium (Mg)	mg/L	3.5	3.6	0.20	B295874	3.5	0.20	B295860
Total Manganese (Mn)	mg/L	<0.0040	<0.0040	0.0040	B295874	<0.0040	0.0040	B295860
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	0.00020	B295864	<0.00020	0.00020	B295854
Total Nickel (Ni)	mg/L	0.00062	0.0010	0.00050	B295864	0.00055	0.00050	B295854
Total Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B295874	<0.10	0.10	B295860
Total Potassium (K)	mg/L	1.5	1.7	0.30	B295874	1.7	0.30	B295860
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B295864	<0.00020	0.00020	B295854
Total Silicon (Si)	mg/L	0.64	0.66	0.50	B295874	0.70	0.50	B295860
Total Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B295864	<0.00010	0.00010	B295854
Total Sodium (Na)	mg/L	2.3	2.5	0.50	B295874	2.3	0.50	B295860
Total Strontium (Sr)	mg/L	0.030	0.032	0.020	B295874	0.030	0.020	B295860
Total Sulphur (S)	mg/L	4.3	4.5	0.20	B295874	4.9	0.20	B295860
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B295864	<0.00020	0.00020	B295854
Total Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B295864	<0.0010	0.0010	B295854
Total Titanium (Ti)	mg/L	<0.0010	0.0019	0.0010	B295864	<0.0010	0.0010	B295854
Total Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	B295864	<0.00010	0.00010	B295854
Total Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B295864	<0.0010	0.0010	B295854

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ304	CJQ305			CJQ306		
Sampling Date		2024/02/21 09:25	2024/02/21 09:36			2024/02/21 09:33		
COC Number		717398-02-01	717398-02-01			717398-02-01		
	UNITS	**CL-3 BTM**	**CL-7 SFC**	**RDL**	**QC Batch**	**CL-7 BTM**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.011	0.018	0.0030	B295864	0.013	0.0030	B295854
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ307		CJQ308		CJQ309	CJQ310		
Sampling Date		2024/02/21 09:18		2024/02/21 09:15		2024/02/21 09:46	2024/02/21 09:43		
COC Number		717398-02-01		717398-02-01		717398-02-01	717398-02-01		
	UNITS	CL-8 SFC	QC Batch	CL-8 BTM	QC Batch	CL-2 SFC	CL-2 BTM	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.047	B293200	0.029	B293200	0.13	0.097	0.020	B293200
Total Aluminum (Al)	mg/L	0.013	B295864	0.0092	B296307	0.036	0.039	0.0030	B295864
Total Antimony (Sb)	mg/L	<0.00060	B295864	<0.00060	B296307	<0.00060	<0.00060	0.00060	B295864
Total Arsenic (As)	mg/L	0.00079	B295864	0.00060	B296307	0.0010	0.00063	0.00020	B295864
Total Barium (Ba)	mg/L	0.010	B295874	0.011	B296309	0.011	0.011	0.010	B295874
Total Beryllium (Be)	mg/L	<0.0010	B295864	<0.0010	B296307	<0.0010	<0.0010	0.0010	B295864
Total Boron (B)	mg/L	<0.020	B295874	<0.020	B296309	<0.020	<0.020	0.020	B295874
Total Calcium (Ca)	mg/L	12	B295874	11	B296309	12	15	0.30	B295874
Total Chromium (Cr)	mg/L	<0.0010	B295864	<0.0010	B296307	0.0036	<0.0010	0.0010	B295864
Total Cobalt (Co)	mg/L	<0.00030	B295864	<0.00030	B296307	<0.00030	<0.00030	0.00030	B295864
Total Copper (Cu)	mg/L	0.0052	B295864	0.0031	B296307	0.0087	0.0085	0.0010	B295864
Total Iron (Fe)	mg/L	<0.060	B295874	<0.060	B296309	0.096	0.43	0.060	B295874
Total Lead (Pb)	mg/L	0.00032	B295864	<0.00020	B296307	0.0016	0.00025	0.00020	B295864
Total Lithium (Li)	mg/L	<0.020	B295874	<0.020	B296309	<0.020	<0.020	0.020	B295874
Total Magnesium (Mg)	mg/L	3.6	B295874	3.5	B296309	3.5	3.8	0.20	B295874
Total Manganese (Mn)	mg/L	<0.0040	B295874	<0.0040	B296309	<0.0040	0.029	0.0040	B295874
Total Molybdenum (Mo)	mg/L	<0.00020	B295864	<0.00020	B296307	<0.00020	<0.00020	0.00020	B295864
Total Nickel (Ni)	mg/L	0.00078	B295864	<0.00050	B296307	0.0016	0.00081	0.00050	B295864
Total Phosphorus (P)	mg/L	<0.10	B295874	<0.10	B296309	<0.10	<0.10	0.10	B295874
Total Potassium (K)	mg/L	1.6	B295874	1.5	B296309	1.6	1.7	0.30	B295874
Total Selenium (Se)	mg/L	<0.00020	B295864	<0.00020	B296307	<0.00020	<0.00020	0.00020	B295864
Total Silicon (Si)	mg/L	0.63	B295874	0.71	B296309	0.66	1.2	0.50	B295874
Total Silver (Ag)	mg/L	<0.00010	B295864	<0.00010	B296307	<0.00010	<0.00010	0.00010	B295864
Total Sodium (Na)	mg/L	2.5	B295874	2.3	B296309	2.4	2.2	0.50	B295874
Total Strontium (Sr)	mg/L	0.031	B295874	0.032	B296309	0.030	0.032	0.020	B295874
Total Sulphur (S)	mg/L	4.5	B295874	4.3	B296309	4.4	9.0	0.20	B295874
Total Thallium (Tl)	mg/L	<0.00020	B295864	<0.00020	B296307	<0.00020	<0.00020	0.00020	B295864
Total Tin (Sn)	mg/L	<0.0010	B295864	<0.0010	B296307	<0.0010	<0.0010	0.0010	B295864
Total Titanium (Ti)	mg/L	<0.0010	B295864	<0.0010	B296307	0.0020	<0.0010	0.0010	B295864
Total Uranium (U)	mg/L	<0.00010	B295864	<0.00010	B296307	<0.00010	<0.00010	0.00010	B295864
Total Vanadium (V)	mg/L	<0.0010	B295864	<0.0010	B296307	<0.0010	<0.0010	0.0010	B295864

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ307		CJQ308		CJQ309	CJQ310		
Sampling Date		2024/02/21 09:18		2024/02/21 09:15		2024/02/21 09:46	2024/02/21 09:43		
COC Number		717398-02-01		717398-02-01		717398-02-01	717398-02-01		
	UNITS	**CL-8 SFC**	**QC Batch**	**CL-8 BTM**	**QC Batch**	**CL-2 SFC**	**CL-2 BTM**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.013	B295864	0.0073	B296307	0.021	0.026	0.0030	B295864
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ311			CJQ311			CJQ312		
Sampling Date		2024/02/21 09:08			2024/02/21 09:08			2024/02/21 09:03		
COC Number		717398-02-01			717398-02-01			717398-02-01		
	UNITS	CL-4 SFC	RDL	QC Batch	CL-4 SFC Lab-Dup	RDL	QC Batch	CL-4 BTM	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L	0.077	0.020	B293200				0.063	0.020	B293200
Total Aluminum (Al)	mg/L	0.017	0.0030	B296307	0.020	0.0030	B296307	0.037	0.0030	B295854
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B296307	<0.00060	0.00060	B296307	<0.00060	0.00060	B295854
Total Arsenic (As)	mg/L	0.00072	0.00020	B296307	0.00071	0.00020	B296307	0.00054	0.00020	B295854
Total Barium (Ba)	mg/L	0.011	0.010	B296309	0.011	0.010	B296309	0.011	0.010	B295860
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B296307	<0.0010	0.0010	B296307	<0.0010	0.0010	B295854
Total Boron (B)	mg/L	<0.020	0.020	B296309	<0.020	0.020	B296309	<0.020	0.020	B295860
Total Calcium (Ca)	mg/L	12	0.30	B296309	12	0.30	B296309	16	0.30	B295860
Total Chromium (Cr)	mg/L	0.0010	0.0010	B296307	0.0012	0.0010	B296307	<0.0010	0.0010	B295854
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B296307	<0.00030	0.00030	B296307	<0.00030	0.00030	B295854
Total Copper (Cu)	mg/L	0.0051	0.0010	B296307	0.0059	0.0010	B296307	0.0069	0.0010	B295854
Total Iron (Fe)	mg/L	<0.060	0.060	B296309	<0.060	0.060	B296309	0.82	0.090	B295860
Total Lead (Pb)	mg/L	0.00053	0.00020	B296307	0.00054	0.00020	B296307	<0.00020	0.00020	B295854
Total Lithium (Li)	mg/L	<0.020	0.020	B296309	<0.020	0.020	B296309	<0.020	0.020	B295860
Total Magnesium (Mg)	mg/L	3.8	0.20	B296309	3.8	0.20	B296309	3.8	0.20	B295860
Total Manganese (Mn)	mg/L	<0.0040	0.0040	B296309	<0.0040	0.0040	B296309	0.071	0.0040	B295860
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B296307	<0.00020	0.00020	B296307	<0.00020	0.00020	B295854
Total Nickel (Ni)	mg/L	0.00074	0.00050	B296307	0.0010	0.00050	B296307	0.00055	0.00050	B295854
Total Phosphorus (P)	mg/L	<0.10	0.10	B296309	<0.10	0.10	B296309	<0.10	0.10	B295860
Total Potassium (K)	mg/L	1.8	0.30	B296309	1.8	0.30	B296309	1.8	0.30	B295860
Total Selenium (Se)	mg/L	<0.00020	0.00020	B296307	<0.00020	0.00020	B296307	<0.00020	0.00020	B295854
Total Silicon (Si)	mg/L	0.70	0.50	B296309	0.69	0.50	B296309	1.5	0.50	B295860
Total Silver (Ag)	mg/L	<0.00010	0.00010	B296307	<0.00010	0.00010	B296307	<0.00010	0.00010	B295854
Total Sodium (Na)	mg/L	2.6	0.50	B296309	2.6	0.50	B296309	2.3	0.50	B295860
Total Strontium (Sr)	mg/L	0.034	0.020	B296309	0.035	0.020	B296309	0.030	0.020	B295860
Total Sulphur (S)	mg/L	4.6	0.20	B296309	4.6	0.20	B296309	11	0.20	B295860
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B296307	<0.00020	0.00020	B296307	<0.00020	0.00020	B295854
Total Tin (Sn)	mg/L	<0.0010	0.0010	B296307	<0.0010	0.0010	B296307	<0.0010	0.0010	B295854
Total Titanium (Ti)	mg/L	<0.0010	0.0010	B296307	0.0012	0.0010	B296307	<0.0010	0.0010	B295854
Total Uranium (U)	mg/L	<0.00010	0.00010	B296307	<0.00010	0.00010	B296307	<0.00010	0.00010	B295854
Total Vanadium (V)	mg/L	<0.0010	0.0010	B296307	<0.0010	0.0010	B296307	<0.0010	0.0010	B295854

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ311			CJQ311			CJQ312		
Sampling Date		2024/02/21 09:08			2024/02/21 09:08			2024/02/21 09:03		
COC Number		717398-02-01			717398-02-01			717398-02-01		
	UNITS	**CL-4 SFC**	**RDL**	**QC Batch**	**CL-4 SFC Lab-Dup**	**RDL**	**QC Batch**	**CL-4 BTM**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.012	0.0030	B296307	0.014	0.0030	B296307	0.024	0.0030	B295854

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ313	CJQ314		CJQ315	CJQ316	CJQ317		
Sampling Date		2024/02/21 08:56	2024/02/21 08:52		2024/02/21 08:38	2024/02/21 08:42	2024/02/21		
COC Number		717398-03-01	717398-03-01		717398-03-01	717398-03-01	717398-03-01		
	UNITS	CL-5 SFC	CL-5 BTM	QC Batch	CL-6 SFC	CL-6 BTM	SW-101	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.16	0.043	B293200	0.051	0.033	0.098	0.020	B293200
Total Aluminum (Al)	mg/L	0.039	0.022	B295864	0.032	0.028	0.026	0.0030	B296307
Total Antimony (Sb)	mg/L	0.00089	<0.00060	B295864	<0.00060	<0.00060	<0.00060	0.00060	B296307
Total Arsenic (As)	mg/L	0.00099	0.00081	B295864	0.0012	0.00069	0.00077	0.00020	B296307
Total Barium (Ba)	mg/L	0.011	<0.010	B295874	0.012	0.010	0.011	0.010	B296309
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B295864	<0.0010	<0.0010	<0.0010	0.0010	B296307
Total Boron (B)	mg/L	<0.020	<0.020	B295874	<0.020	<0.020	<0.020	0.020	B296309
Total Calcium (Ca)	mg/L	12	12	B295874	13	12	12	0.30	B296309
Total Chromium (Cr)	mg/L	0.0034	<0.0010	B295864	0.0012	<0.0010	0.0027	0.0010	B296307
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B295864	<0.00030	<0.00030	<0.00030	0.00030	B296307
Total Copper (Cu)	mg/L	0.0076	0.0054	B295864	0.0059	0.0044	0.0081	0.0010	B296307
Total Iron (Fe)	mg/L	0.11	0.11	B295874	<0.060	<0.060	0.11	0.060	B296309
Total Lead (Pb)	mg/L	0.0017	<0.00020	B295864	0.00083	<0.00020	0.00094	0.00020	B296307
Total Lithium (Li)	mg/L	<0.020	<0.020	B295874	<0.020	<0.020	<0.020	0.020	B296309
Total Magnesium (Mg)	mg/L	3.5	3.4	B295874	3.8	3.6	3.6	0.20	B296309
Total Manganese (Mn)	mg/L	<0.0040	0.0094	B295874	<0.0040	0.0061	<0.0040	0.0040	B296309
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B295864	<0.00020	<0.00020	<0.00020	0.00020	B296307
Total Nickel (Ni)	mg/L	0.0011	0.00071	B295864	0.00098	0.00090	0.00089	0.00050	B296307
Total Phosphorus (P)	mg/L	<0.10	<0.10	B295874	<0.10	<0.10	<0.10	0.10	B296309
Total Potassium (K)	mg/L	1.5	1.5	B295874	1.9	1.6	1.7	0.30	B296309
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B295864	<0.00020	<0.00020	<0.00020	0.00020	B296307
Total Silicon (Si)	mg/L	0.68	0.75	B295874	0.67	0.73	0.71	0.50	B296309
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B295864	<0.00010	<0.00010	<0.00010	0.00010	B296307
Total Sodium (Na)	mg/L	2.4	2.3	B295874	2.5	2.3	2.4	0.50	B296309
Total Strontium (Sr)	mg/L	0.031	0.030	B295874	0.035	0.032	0.033	0.020	B296309
Total Sulphur (S)	mg/L	4.4	4.5	B295874	4.7	4.5	4.5	0.20	B296309
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B295864	<0.00020	<0.00020	<0.00020	0.00020	B296307
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B295864	<0.0010	<0.0010	<0.0010	0.0010	B296307
Total Titanium (Ti)	mg/L	0.0027	<0.0010	B295864	0.0014	<0.0010	0.0011	0.0010	B296307
Total Uranium (U)	mg/L	<0.00010	<0.00010	B295864	<0.00010	<0.00010	<0.00010	0.00010	B296307
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B295864	<0.0010	<0.0010	<0.0010	0.0010	B296307

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ313	CJQ314		CJQ315	CJQ316	CJQ317		
Sampling Date		2024/02/21 08:56	2024/02/21 08:52		2024/02/21 08:38	2024/02/21 08:42	2024/02/21		
COC Number		717398-03-01	717398-03-01		717398-03-01	717398-03-01	717398-03-01		
	UNITS	**CL-5 SFC**	**CL-5 BTM**	**QC Batch**	**CL-6 SFC**	**CL-6 BTM**	**SW-101**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.026	0.021	B295864	0.016	0.013	0.015	0.0030	B296307
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ318	CJQ319		CJQ336		
Sampling Date		2024/02/21	2024/02/21		2024/02/21		
COC Number		717398-03-01	717398-03-01		717398-01-01		
	UNITS	SW-100	SW-102	QC Batch	TRIP BLANK	RDL	QC Batch
Elements							
Total Cadmium (Cd)	ug/L	0.89	0.97	B293200	<0.020	0.020	B292891
Total Aluminum (Al)	mg/L	0.034	0.051	B295864	<0.0030	0.0030	B295864
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B295864	<0.00060	0.00060	B295864
Total Arsenic (As)	mg/L	0.00041	0.00046	B295864	<0.00020	0.00020	B295864
Total Barium (Ba)	mg/L	0.021	0.021	B295874	<0.010	0.010	B295874
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B295864	<0.0010	0.0010	B295864
Total Boron (B)	mg/L	0.020	0.022	B295874	<0.020	0.020	B295874
Total Calcium (Ca)	mg/L	90	86	B295874	<0.30	0.30	B295874
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B295864	<0.0010	0.0010	B295864
Total Cobalt (Co)	mg/L	0.00056	0.00072	B295864	<0.00030	0.00030	B295864
Total Copper (Cu)	mg/L	0.015	0.016	B295864	<0.0010	0.0010	B295864
Total Iron (Fe)	mg/L	0.65	1.1	B295874	<0.060	0.060	B295874
Total Lead (Pb)	mg/L	<0.00020	<0.00020	B295864	<0.00020	0.00020	B295864
Total Lithium (Li)	mg/L	<0.020	<0.020	B295874	<0.020	0.020	B295874
Total Magnesium (Mg)	mg/L	14	13	B295874	<0.20	0.20	B295874
Total Manganese (Mn)	mg/L	0.11	0.14	B295874	<0.0040	0.0040	B295874
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B295864	<0.00020	0.00020	B295864
Total Nickel (Ni)	mg/L	0.0022	0.0025	B295864	<0.00050	0.00050	B295864
Total Phosphorus (P)	mg/L	<0.10	<0.10	B295874	<0.10	0.10	B295874
Total Potassium (K)	mg/L	7.1	6.8	B295874	<0.30	0.30	B295874
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B295864	<0.00020	0.00020	B295864
Total Silicon (Si)	mg/L	1.3	1.2	B295874	<0.50	0.50	B295874
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B295864	<0.00010	0.00010	B295864
Total Sodium (Na)	mg/L	5.1	4.8	B295874	<0.50	0.50	B295874
Total Strontium (Sr)	mg/L	0.088	0.085	B295874	<0.020	0.020	B295874
Total Sulphur (S)	mg/L	90	86	B295874	<0.20	0.20	B295874
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B295864	<0.00020	0.00020	B295864
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B295864	<0.0010	0.0010	B295864
Total Titanium (Ti)	mg/L	0.0012	0.0019	B295864	<0.0010	0.0010	B295864
Total Uranium (U)	mg/L	<0.00010	<0.00010	B295864	<0.00010	0.00010	B295864
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B295864	<0.0010	0.0010	B295864
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CJQ318	CJQ319		CJQ336		
Sampling Date		2024/02/21	2024/02/21		2024/02/21		
COC Number		717398-03-01	717398-03-01		717398-01-01		
	UNITS	**SW-100**	**SW-102**	**QC Batch**	**TRIP BLANK**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.27	0.28	B295864	<0.0030	0.0030	B295864
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ293			CJQ293			CJQ294		
Sampling Date		2024/02/21 11:23			2024/02/21 11:23			2024/02/21 10:52		
COC Number		717398-01-01			717398-01-01			717398-01-01		
	UNITS	SC-1	RDL	QC Batch	SC-1 Lab-Dup	RDL	QC Batch	SB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	45	0.50	B293146				280	0.50	B293146
Total Hardness (CaCO3)	mg/L	39.7	0.50	B292909				254	0.50	B292909
Misc. Inorganics										
pH	pH	6.10	N/A	B295177				5.68	N/A	B295172
Total Organic Carbon (C)	mg/L	14	0.50	B298008				8.6	0.50	B298008
Total Suspended Solids	mg/L	<1.0	1.0	B295247	<1.0	1.0	B295247	<1.0	1.0	B295247
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	14	0.50	B297819				8.4 (1)	0.50	B298087
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B295175				<1.0	1.0	B295169
Alkalinity (Total as CaCO3)	mg/L	43	1.0	B295175				9.9	1.0	B295169
Bicarbonate (HCO3)	mg/L	53	1.0	B295175				12	1.0	B295169
Carbonate (CO3)	mg/L	<1.0	1.0	B295175				<1.0	1.0	B295169
Hydroxide (OH)	mg/L	<1.0	1.0	B295175				<1.0	1.0	B295169
Sulphate (SO4)	mg/L	4.7	1.0	B294695				240	5.0	B294695
Physical Properties										
Turbidity	NTU	4.9	0.10	B293247				9.0	0.10	B293247

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ295			CJQ295			CJQ296		
Sampling Date		2024/02/21 10:57			2024/02/21 10:57			2024/02/21 10:23		
COC Number		717398-01-01			717398-01-01			717398-01-01		
	UNITS	SB-2	RDL	QC Batch	SB-2 Lab-Dup	RDL	QC Batch	CB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	300	0.50	B293146				270	0.50	B293146
Total Hardness (CaCO3)	mg/L	239	0.50	B292909				235	0.50	B292909
Misc. Inorganics										
pH	pH	5.70	N/A	B295177				5.72	N/A	B295177
Total Organic Carbon (C)	mg/L	8.0	0.50	B298008	8.7	0.50	B298008	8.7	0.50	B298008
Total Suspended Solids	mg/L	<1.0 (1)	1.0	B298567	<1.0	1.0	B298567	1.1	1.0	B295247
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	8.3	0.50	B298087				8.7	0.50	B298087
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B295175				<1.0	1.0	B295175
Alkalinity (Total as CaCO3)	mg/L	10	1.0	B295175				11	1.0	B295175
Bicarbonate (HCO3)	mg/L	12	1.0	B295175				13	1.0	B295175
Carbonate (CO3)	mg/L	<1.0	1.0	B295175				<1.0	1.0	B295175
Hydroxide (OH)	mg/L	<1.0	1.0	B295175				<1.0	1.0	B295175
Sulphate (SO4)	mg/L	250	5.0	B294679				240	5.0	B294695
Physical Properties										
Turbidity	NTU	10 (1)	0.10	B299390				7.4	0.10	B293247

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Sample was originally processed within hold time. Data quality required investigation. Re-analysis was completed past recommended hold time.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ297		CJQ298			CJQ298		
Sampling Date		2024/02/21 10:30		2024/02/21 10:36			2024/02/21 10:36		
COC Number		717398-01-01		717398-01-01			717398-01-01		
	UNITS	CB-2	QC Batch	EB-1	RDL	QC Batch	EB-1 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	290	B293146	320	0.50	B293146			
Total Hardness (CaCO3)	mg/L	260	B292909	289	0.50	B292909			
Misc. Inorganics									
pH	pH	5.70	B295177	5.71	N/A	B295172			
Total Organic Carbon (C)	mg/L	9.0	B298008	9.0	0.50	B298008			
Total Suspended Solids	mg/L	1.5	B295247	<1.0	1.0	B295247			
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	9.3	B297819	9.0	0.50	B298087			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B295175	<1.0	1.0	B295169			
Alkalinity (Total as CaCO3)	mg/L	10	B295175	11	1.0	B295169			
Bicarbonate (HCO3)	mg/L	13	B295175	14	1.0	B295169			
Carbonate (CO3)	mg/L	<1.0	B295175	<1.0	1.0	B295169			
Hydroxide (OH)	mg/L	<1.0	B295175	<1.0	1.0	B295169			
Sulphate (SO4)	mg/L	250	B294695	270	5.0	B294679			
Physical Properties									
Turbidity	NTU	7.3	B293247	8.2	0.10	B293252	8.2	0.10	B293252

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ299			CJQ299			CJQ300		
Sampling Date		2024/02/21 10:44			2024/02/21 10:44			2024/02/21 10:13		
COC Number		717398-01-01			717398-01-01			717398-01-01		
	UNITS	EB-2	RDL	QC Batch	EB-2 Lab-Dup	RDL	QC Batch	NB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	340	0.50	B293146				310	0.50	B293146
Total Hardness (CaCO3)	mg/L	301	0.50	B292909				277	0.50	B292909
Misc. Inorganics										
pH	pH	5.60	N/A	B295177				5.64	N/A	B295177
Total Organic Carbon (C)	mg/L	9.3	0.50	B298079	9.4	0.50	B298079	9.0	0.50	B298079
Total Suspended Solids	mg/L	1.0 (1)	1.0	B298567				<1.0	1.0	B295247
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	9.9	0.50	B298087	11	0.50	B298087	9.7	0.50	B297819
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B295175				<1.0	1.0	B295175
Alkalinity (Total as CaCO3)	mg/L	6.9	1.0	B295175				8.1	1.0	B295175
Bicarbonate (HCO3)	mg/L	8.5	1.0	B295175				9.8	1.0	B295175
Carbonate (CO3)	mg/L	<1.0	1.0	B295175				<1.0	1.0	B295175
Hydroxide (OH)	mg/L	<1.0	1.0	B295175				<1.0	1.0	B295175
Sulphate (SO4)	mg/L	280	5.0	B294679				260	5.0	B294679
Physical Properties										
Turbidity	NTU	12 (1)	0.10	B299390				8.4	0.10	B293252

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Sample was originally processed within hold time. Data quality required investigation. Re-analysis was completed past recommended hold time.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ301			CJQ301			CJQ302		
Sampling Date		2024/02/21 10:19			2024/02/21 10:19			2024/02/21 10:05		
COC Number		717398-01-01			717398-01-01			717398-01-01		
	UNITS	NB-2	RDL	QC Batch	NB-2 Lab-Dup	RDL	QC Batch	CLD	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	290	0.50	B293146				310	0.50	B293146
Total Hardness (CaCO3)	mg/L	251	0.50	B292909				260	0.50	B292909
Misc. Inorganics										
pH	pH	5.64	N/A	B295177	5.68	N/A	B295177	5.62	N/A	B295172
Total Organic Carbon (C)	mg/L	7.8	0.50	B298079				8.8	0.50	B298079
Total Suspended Solids	mg/L	<1.0	1.0	B295247				1.1 (1)	1.0	B298567
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	8.5	0.50	B298087				9.7	0.50	B297819
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B295175	<1.0	1.0	B295175	<1.0	1.0	B295169
Alkalinity (Total as CaCO3)	mg/L	11	1.0	B295175	11	1.0	B295175	7.6	1.0	B295169
Bicarbonate (HCO3)	mg/L	13	1.0	B295175	13	1.0	B295175	9.3	1.0	B295169
Carbonate (CO3)	mg/L	<1.0	1.0	B295175	<1.0	1.0	B295175	<1.0	1.0	B295169
Hydroxide (OH)	mg/L	<1.0	1.0	B295175	<1.0	1.0	B295175	<1.0	1.0	B295169
Sulphate (SO4)	mg/L	240	5.0	B294695				270	5.0	B294679
Physical Properties										
Turbidity	NTU	7.7	0.10	B293252				13 (1)	0.10	B299390

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Sample was originally processed within hold time. Data quality required investigation. Re-analysis was completed past recommended hold time.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ303			CJQ303			CJQ304		
Sampling Date		2024/02/21 09:28			2024/02/21 09:28			2024/02/21 09:25		
COC Number		717398-02-01			717398-02-01			717398-02-01		
	UNITS	CL-3 SFC	RDL	QC Batch	CL-3 SFC Lab-Dup	RDL	QC Batch	CL-3 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	51	0.50	B293146				51	0.50	B293146
Total Hardness (CaCO3)	mg/L	42.1	0.50	B292909				43.5	0.50	B292909
Misc. Inorganics										
pH	pH	6.08	N/A	B295172				6.09	N/A	B295172
Total Organic Carbon (C)	mg/L	11	0.50	B298079				10	0.50	B298079
Total Suspended Solids	mg/L	<1.0	1.0	B295247				<1.0	1.0	B295247
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B297819	12	0.50	B297819	12	0.50	B297819
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B295169				<1.0	1.0	B295169
Alkalinity (Total as CaCO3)	mg/L	41	1.0	B295169				41	1.0	B295169
Bicarbonate (HCO3)	mg/L	50	1.0	B295169				50	1.0	B295169
Carbonate (CO3)	mg/L	<1.0	1.0	B295169				<1.0	1.0	B295169
Hydroxide (OH)	mg/L	<1.0	1.0	B295169				<1.0	1.0	B295169
Sulphate (SO4)	mg/L	14	1.0	B294695				14	1.0	B294679
Physical Properties										
Turbidity	NTU	1.7	0.10	B293252				0.26	0.10	B293252

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ305		CJQ306			CJQ306		
Sampling Date		2024/02/21 09:36		2024/02/21 09:33			2024/02/21 09:33		
COC Number		717398-02-01		717398-02-01			717398-02-01		
	UNITS	CL-7 SFC	QC Batch	CL-7 BTM	RDL	QC Batch	CL-7 BTM Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	51	B293146	51	0.50	B293146			
Total Hardness (CaCO3)	mg/L	45.4	B292909	44.0	0.50	B292909			
Misc. Inorganics									
pH	pH	6.08	B295177	6.02	N/A	B295172	6.07	N/A	B295172
Total Organic Carbon (C)	mg/L	11	B298008	11	0.50	B298008			
Total Suspended Solids	mg/L	<1.0	B295247	<1.0	1.0	B295247			
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	12	B297819	11	0.50	B297819			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B295175	<1.0	1.0	B295169	<1.0	1.0	B295169
Alkalinity (Total as CaCO3)	mg/L	41	B295175	41	1.0	B295169	40	1.0	B295169
Bicarbonate (HCO3)	mg/L	51	B295175	50	1.0	B295169	49	1.0	B295169
Carbonate (CO3)	mg/L	<1.0	B295175	<1.0	1.0	B295169	<1.0	1.0	B295169
Hydroxide (OH)	mg/L	<1.0	B295175	<1.0	1.0	B295169	<1.0	1.0	B295169
Sulphate (SO4)	mg/L	16	B294695	16	1.0	B294679			
Physical Properties									
Turbidity	NTU	1.2	B293252	1.4	0.10	B293252			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C412576
Report Date: 2024/02/29

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ307		CJQ308			CJQ308		
Sampling Date		2024/02/21 09:18		2024/02/21 09:15			2024/02/21 09:15		
COC Number		717398-02-01		717398-02-01			717398-02-01		
	UNITS	CL-8 SFC	QC Batch	CL-8 BTM	RDL	QC Batch	CL-8 BTM Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	50	B293146	48	0.50	B293146			
Total Hardness (CaCO3)	mg/L	45.0	B292909	43.1	0.50	B292909			
Misc. Inorganics									
pH	pH	6.10	B295172	6.08	N/A	B295172			
Total Organic Carbon (C)	mg/L	12	B298008	10	0.50	B298008			
Total Suspended Solids	mg/L	<1.0	B295247	1.1	1.0	B295247			
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	11	B297819	11 (1)	0.50	B299173			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B295169	<1.0	1.0	B295169			
Alkalinity (Total as CaCO3)	mg/L	41	B295169	39	1.0	B295169			
Bicarbonate (HCO3)	mg/L	51	B295169	48	1.0	B295169			
Carbonate (CO3)	mg/L	<1.0	B295169	<1.0	1.0	B295169			
Hydroxide (OH)	mg/L	<1.0	B295169	<1.0	1.0	B295169			
Sulphate (SO4)	mg/L	13	B294679	15	1.0	B294697	15	1.0	B294697
Physical Properties									
Turbidity	NTU	1.2	B293252	1.2	0.10	B293252			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C412576
Report Date: 2024/02/29

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ309		CJQ310		CJQ311		CJQ312		
Sampling Date		2024/02/21 09:46		2024/02/21 09:43		2024/02/21 09:08		2024/02/21 09:03		
COC Number		717398-02-01		717398-02-01		717398-02-01		717398-02-01		
	UNITS	CL-2 SFC	QC Batch	CL-2 BTM	QC Batch	CL-4 SFC	QC Batch	CL-4 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	50	B293146	59	B293146	50	B293207	59	0.50	B293209
Total Hardness (CaCO3)	mg/L	43.5	B292909	54.2	B292909	46.6	B292909	54.8	0.50	B292909
Misc. Inorganics										
pH	pH	6.06	B295172	6.01	B295172	6.09	B295172	6.00	N/A	B295172
Total Organic Carbon (C)	mg/L	12	B298008	9.6	B298079	12	B298008	10	0.50	B298008
Total Suspended Solids	mg/L	1.5	B295247	<1.0	B295247	<1.0	B295247	<1.0	1.0	B295247
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	12 (1)	B298087	9.6 (1)	B298087	11 (1)	B298087	11 (1)	0.50	B299173
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	B295169	<1.0	B295169	<1.0	B295169	<1.0	1.0	B295169
Alkalinity (Total as CaCO3)	mg/L	41	B295169	33	B295169	43	B295169	34	1.0	B295169
Bicarbonate (HCO3)	mg/L	50	B295169	41	B295169	53	B295169	42	1.0	B295169
Carbonate (CO3)	mg/L	<1.0	B295169	<1.0	B295169	<1.0	B295169	<1.0	1.0	B295169
Hydroxide (OH)	mg/L	<1.0	B295169	<1.0	B295169	<1.0	B295169	<1.0	1.0	B295169
Sulphate (SO4)	mg/L	14	B294697	29	B294697	14	B294697	31	1.0	B294697
Physical Properties										
Turbidity	NTU	1.6	B293252	3.1	B293252	0.13	B293252	6.8	0.10	B293252

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C412576
Report Date: 2024/02/29

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ312			CJQ313		CJQ314		
Sampling Date		2024/02/21 09:03			2024/02/21 08:56		2024/02/21 08:52		
COC Number		717398-02-01			717398-03-01		717398-03-01		
	UNITS	CL-4 BTM Lab-Dup	RDL	QC Batch	CL-5 SFC	QC Batch	CL-5 BTM	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				49	B293209	48	0.50	B293209
Total Hardness (CaCO3)	mg/L				44.4	B292909	43.5	0.50	B292909
Misc. Inorganics									
pH	pH				6.10	B295172	6.05	N/A	B295172
Total Organic Carbon (C)	mg/L				11	B298008	10	0.50	B297515
Total Suspended Solids	mg/L				<1.0	B295705	<1.0	1.0	B295705
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	11	0.50	B299173	11 (1)	B299173	10 (1)	0.50	B298087
Anions									
Alkalinity (PP as CaCO3)	mg/L				<1.0	B295169	<1.0	1.0	B295169
Alkalinity (Total as CaCO3)	mg/L				41	B295169	39	1.0	B295169
Bicarbonate (HCO3)	mg/L				50	B295169	47	1.0	B295169
Carbonate (CO3)	mg/L				<1.0	B295169	<1.0	1.0	B295169
Hydroxide (OH)	mg/L				<1.0	B295169	<1.0	1.0	B295169
Sulphate (SO4)	mg/L				14	B294697	16	1.0	B294697
Physical Properties									
Turbidity	NTU				2.1	B293252	1.4	0.10	B293252

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ314			CJQ315			CJQ316		
Sampling Date		2024/02/21 08:52			2024/02/21 08:38			2024/02/21 08:42		
COC Number		717398-03-01			717398-03-01			717398-03-01		
	UNITS	CL-5 BTM Lab-Dup	RDL	QC Batch	CL-6 SFC	RDL	QC Batch	CL-6 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				51	0.50	B293209	47	0.50	B293209
Total Hardness (CaCO3)	mg/L				47.0	0.50	B292909	43.9	0.50	B292909
Misc. Inorganics										
pH	pH				6.09	N/A	B295172	6.07	N/A	B295172
Total Organic Carbon (C)	mg/L	11	0.50	B297515	12	0.50	B298008	9.5	0.50	B298008
Total Suspended Solids	mg/L				1.3	0.99	B295705	<1.0	1.0	B295705
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L				11 (1)	0.50	B299173	11 (1)	0.50	B298087
Anions										
Alkalinity (PP as CaCO3)	mg/L				<1.0	1.0	B295169	<1.0	1.0	B295169
Alkalinity (Total as CaCO3)	mg/L				42	1.0	B295169	39	1.0	B295169
Bicarbonate (HCO3)	mg/L				52	1.0	B295169	48	1.0	B295169
Carbonate (CO3)	mg/L				<1.0	1.0	B295169	<1.0	1.0	B295169
Hydroxide (OH)	mg/L				<1.0	1.0	B295169	<1.0	1.0	B295169
Sulphate (SO4)	mg/L				15	1.0	B294697	14	1.0	B294697
Physical Properties										
Turbidity	NTU				2.6	0.10	B293252	2.0	0.10	B293252

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C412576
Report Date: 2024/02/29

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ317			CJQ318			CJQ318		
Sampling Date		2024/02/21			2024/02/21			2024/02/21		
COC Number		717398-03-01			717398-03-01			717398-03-01		
	UNITS	SW-101	RDL	QC Batch	SW-100	RDL	QC Batch	SW-100 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	50	0.50	B293209	320	0.50	B293209			
Total Hardness (CaCO3)	mg/L	44.8	0.50	B292909	281	0.50	B292909			
Misc. Inorganics										
pH	pH	6.09	N/A	B295172	5.70	N/A	B295172			
Total Organic Carbon (C)	mg/L	12	0.50	B298008	8.2	0.50	B298008			
Total Suspended Solids	mg/L	1.3	1.0	B295705	<0.97	0.97	B295705			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	12 (1)	0.50	B299173	8.1 (1)	0.50	B299173			
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B295169	<1.0	1.0	B295169			
Alkalinity (Total as CaCO3)	mg/L	42	1.0	B295169	11	1.0	B295169			
Bicarbonate (HCO3)	mg/L	51	1.0	B295169	13	1.0	B295169			
Carbonate (CO3)	mg/L	<1.0	1.0	B295169	<1.0	1.0	B295169			
Hydroxide (OH)	mg/L	<1.0	1.0	B295169	<1.0	1.0	B295169			
Sulphate (SO4)	mg/L	16	1.0	B294697	270	5.0	B294697			
Physical Properties										
Turbidity	NTU	2.3	0.10	B293252	8.1	0.10	B293256	8.0	0.10	B293256

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CJQ319			CJQ336		
Sampling Date		2024/02/21			2024/02/21		
COC Number		717398-03-01			717398-01-01		
	UNITS	SW-102	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	300	0.50	B293209	<0.50	0.50	B293146
Total Hardness (CaCO3)	mg/L	267	0.50	B292909	<0.50	0.50	B292909
Misc. Inorganics							
pH	pH	5.59	N/A	B295172	4.94	N/A	B295172
Total Organic Carbon (C)	mg/L	9.1	0.50	B298008	<0.50	0.50	B298008
Total Suspended Solids	mg/L	1.6	1.0	B295705	<1.0	1.0	B295705
Lab Filtered Inorganics							
Dissolved Organic Carbon (C)	mg/L	9.0 (1)	0.50	B299173	<0.50 (1)	0.50	B299173
Anions							
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B295169	<1.0	1.0	B295169
Alkalinity (Total as CaCO3)	mg/L	7.4	1.0	B295169	<1.0	1.0	B295169
Bicarbonate (HCO3)	mg/L	9.0	1.0	B295169	<1.0	1.0	B295169
Carbonate (CO3)	mg/L	<1.0	1.0	B295169	<1.0	1.0	B295169
Hydroxide (OH)	mg/L	<1.0	1.0	B295169	<1.0	1.0	B295169
Sulphate (SO4)	mg/L	270	5.0	B294697	<1.0	1.0	B294697
Physical Properties							
Turbidity	NTU	13	0.10	B293256	<0.10	0.10	B293256

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.3°C
Package 2	4.8°C
Package 3	2.8°C
Package 4	4.1°C

Sample CJQ295 [SB-2] : Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity.

Sample CJQ299 [EB-2] : Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity.

Sample CJQ302 [CLD] : Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Turbidity.

Sample CJQ301, Elements by ICPMS - Total: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B293247	Turbidity	2024/02/23			101	80 - 120	<0.10	NTU	2.0	20
B293252	Turbidity	2024/02/23			101	80 - 120	<0.10	NTU	0.12	20
B293256	Turbidity	2024/02/23			102	80 - 120	<0.10	NTU	0.87	20
B294679	Sulphate (SO4)	2024/02/26	88	80 - 120	98	80 - 120	<1.0	mg/L	NC	20
B294695	Sulphate (SO4)	2024/02/26	112	80 - 120	101	80 - 120	<1.0	mg/L	NC	20
B294697	Sulphate (SO4)	2024/02/26	81	80 - 120	93	80 - 120	<1.0	mg/L	1.6	20
B294828	Dissolved Barium (Ba)	2024/02/26	96	80 - 120	102	80 - 120	<0.010	mg/L		
B294828	Dissolved Boron (B)	2024/02/26	98	80 - 120	98	80 - 120	<0.020	mg/L		
B294828	Dissolved Calcium (Ca)	2024/02/26	NC	80 - 120	97	80 - 120	<0.30	mg/L	3.6	20
B294828	Dissolved Iron (Fe)	2024/02/26	99	80 - 120	103	80 - 120	<0.060	mg/L	NC	20
B294828	Dissolved Lithium (Li)	2024/02/26	91	80 - 120	93	80 - 120	<0.020	mg/L		
B294828	Dissolved Magnesium (Mg)	2024/02/26	91	80 - 120	97	80 - 120	<0.20	mg/L	4.1	20
B294828	Dissolved Manganese (Mn)	2024/02/26	98	80 - 120	99	80 - 120	<0.0040	mg/L	7.0	20
B294828	Dissolved Phosphorus (P)	2024/02/26	103	80 - 120	101	80 - 120	<0.10	mg/L		
B294828	Dissolved Potassium (K)	2024/02/26	100	80 - 120	100	80 - 120	<0.30	mg/L	1.7	20
B294828	Dissolved Silicon (Si)	2024/02/26	95	80 - 120	100	80 - 120	<0.50	mg/L		
B294828	Dissolved Sodium (Na)	2024/02/26	NC	80 - 120	101	80 - 120	<0.50	mg/L	2.6	20
B294828	Dissolved Strontium (Sr)	2024/02/26	89	80 - 120	98	80 - 120	<0.020	mg/L		
B294828	Dissolved Sulphur (S)	2024/02/26	NC	80 - 120	98	80 - 120	<0.20	mg/L		
B294849	Dissolved Barium (Ba)	2024/02/27	41 (1)	80 - 120	100	80 - 120	<0.010	mg/L		
B294849	Dissolved Boron (B)	2024/02/27	103	80 - 120	104	80 - 120	<0.020	mg/L		
B294849	Dissolved Calcium (Ca)	2024/02/27	96	80 - 120	97	80 - 120	<0.30	mg/L		
B294849	Dissolved Iron (Fe)	2024/02/27	97	80 - 120	100	80 - 120	<0.060	mg/L		
B294849	Dissolved Lithium (Li)	2024/02/27	99	80 - 120	100	80 - 120	<0.020	mg/L		
B294849	Dissolved Magnesium (Mg)	2024/02/27	100	80 - 120	100	80 - 120	<0.20	mg/L		
B294849	Dissolved Manganese (Mn)	2024/02/27	102	80 - 120	101	80 - 120	<0.0040	mg/L		
B294849	Dissolved Phosphorus (P)	2024/02/27	101	80 - 120	97	80 - 120	<0.10	mg/L		
B294849	Dissolved Potassium (K)	2024/02/27	101	80 - 120	101	80 - 120	<0.30	mg/L		
B294849	Dissolved Silicon (Si)	2024/02/27	92	80 - 120	97	80 - 120	<0.50	mg/L		
B294849	Dissolved Sodium (Na)	2024/02/28	NC	80 - 120	96	80 - 120	<0.50	mg/L	0.76	20
B294849	Dissolved Strontium (Sr)	2024/02/27	90	80 - 120	98	80 - 120	<0.020	mg/L		
B294849	Dissolved Sulphur (S)	2024/02/27	NC	80 - 120	97	80 - 120	<0.20	mg/L		

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B295169	Alkalinity (PP as CaCO3)	2024/02/26					<1.0	mg/L	NC	20
B295169	Alkalinity (Total as CaCO3)	2024/02/26			101	80 - 120	<1.0	mg/L	2.0	20
B295169	Bicarbonate (HCO3)	2024/02/26					<1.0	mg/L	2.0	20
B295169	Carbonate (CO3)	2024/02/26					<1.0	mg/L	NC	20
B295169	Hydroxide (OH)	2024/02/26					<1.0	mg/L	NC	20
B295172	pH	2024/02/26			100	97 - 103			0.91	N/A
B295175	Alkalinity (PP as CaCO3)	2024/02/26					<1.0	mg/L	NC	20
B295175	Alkalinity (Total as CaCO3)	2024/02/26			100	80 - 120	<1.0	mg/L	1.7	20
B295175	Bicarbonate (HCO3)	2024/02/26					<1.0	mg/L	1.7	20
B295175	Carbonate (CO3)	2024/02/26					<1.0	mg/L	NC	20
B295175	Hydroxide (OH)	2024/02/26					<1.0	mg/L	NC	20
B295177	pH	2024/02/26			100	97 - 103			0.64	N/A
B295223	Dissolved Aluminum (Al)	2024/02/27	NC	80 - 120	106	80 - 120	<0.0030	mg/L	26 (1)	20
B295223	Dissolved Antimony (Sb)	2024/02/27	102	80 - 120	106	80 - 120	<0.00060	mg/L	NC	20
B295223	Dissolved Arsenic (As)	2024/02/27	92	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B295223	Dissolved Beryllium (Be)	2024/02/27	94	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B295223	Dissolved Chromium (Cr)	2024/02/27	93	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B295223	Dissolved Cobalt (Co)	2024/02/27	94	80 - 120	95	80 - 120	<0.00030	mg/L	NC	20
B295223	Dissolved Copper (Cu)	2024/02/27	94	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B295223	Dissolved Lead (Pb)	2024/02/27	93	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B295223	Dissolved Molybdenum (Mo)	2024/02/27	96	80 - 120	99	80 - 120	<0.00020	mg/L	7.3	20
B295223	Dissolved Nickel (Ni)	2024/02/27	93	80 - 120	95	80 - 120	<0.00050	mg/L	NC	20
B295223	Dissolved Selenium (Se)	2024/02/27	90	80 - 120	98	80 - 120	<0.00020	mg/L	15	20
B295223	Dissolved Silver (Ag)	2024/02/27	92	80 - 120	96	80 - 120	<0.00010	mg/L	NC	20
B295223	Dissolved Thallium (Tl)	2024/02/27	91	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B295223	Dissolved Tin (Sn)	2024/02/27	93	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B295223	Dissolved Titanium (Ti)	2024/02/27	96	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B295223	Dissolved Uranium (U)	2024/02/27	94	80 - 120	95	80 - 120	<0.00010	mg/L	1.8	20
B295223	Dissolved Vanadium (V)	2024/02/27	96	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B295223	Dissolved Zinc (Zn)	2024/02/27	92	80 - 120	106	80 - 120	<0.0030	mg/L	NC	20
B295227	Dissolved Aluminum (Al)	2024/02/27	89	80 - 120	104	80 - 120	<0.0030	mg/L	0.45	20
B295227	Dissolved Antimony (Sb)	2024/02/27	94	80 - 120	106	80 - 120	<0.00060	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B295227	Dissolved Arsenic (As)	2024/02/27	88	80 - 120	98	80 - 120	<0.00020	mg/L	7.0	20
B295227	Dissolved Beryllium (Be)	2024/02/27	85	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B295227	Dissolved Chromium (Cr)	2024/02/27	85	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B295227	Dissolved Cobalt (Co)	2024/02/27	84	80 - 120	99	80 - 120	<0.00030	mg/L	2.9	20
B295227	Dissolved Copper (Cu)	2024/02/27	83	80 - 120	99	80 - 120	<0.0010	mg/L	5.5	20
B295227	Dissolved Lead (Pb)	2024/02/27	86	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B295227	Dissolved Molybdenum (Mo)	2024/02/27	90	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B295227	Dissolved Nickel (Ni)	2024/02/27	85	80 - 120	99	80 - 120	<0.00050	mg/L	5.1	20
B295227	Dissolved Selenium (Se)	2024/02/27	93	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B295227	Dissolved Silver (Ag)	2024/02/27	86	80 - 120	95	80 - 120	<0.00010	mg/L	NC	20
B295227	Dissolved Thallium (Tl)	2024/02/27	85	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B295227	Dissolved Tin (Sn)	2024/02/27	87	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B295227	Dissolved Titanium (Ti)	2024/02/27	86	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B295227	Dissolved Uranium (U)	2024/02/27	84	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B295227	Dissolved Vanadium (V)	2024/02/27	87	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B295227	Dissolved Zinc (Zn)	2024/02/27	NC	80 - 120	100	80 - 120	<0.0030	mg/L	0.52	20
B295247	Total Suspended Solids	2024/02/28	93	80 - 120	96	80 - 120	<1.0	mg/L	NC	20
B295705	Total Suspended Solids	2024/02/27	NC	80 - 120	98	80 - 120	<1.0	mg/L	6.2	20
B295854	Total Aluminum (Al)	2024/02/27	104	80 - 120	108	80 - 120	<0.0030	mg/L	2.1	20
B295854	Total Antimony (Sb)	2024/02/27	118	80 - 120	119	80 - 120	<0.00060	mg/L	NC	20
B295854	Total Arsenic (As)	2024/02/27	114	80 - 120	115	80 - 120	<0.00020	mg/L	8.7	20
B295854	Total Beryllium (Be)	2024/02/27	108	80 - 120	107	80 - 120	<0.0010	mg/L	NC	20
B295854	Total Chromium (Cr)	2024/02/27	113	80 - 120	114	80 - 120	<0.0010	mg/L	NC	20
B295854	Total Cobalt (Co)	2024/02/27	110	80 - 120	112	80 - 120	<0.00030	mg/L	6.3	20
B295854	Total Copper (Cu)	2024/02/27	112	80 - 120	115	80 - 120	<0.0010	mg/L	5.5	20
B295854	Total Lead (Pb)	2024/02/27	110	80 - 120	113	80 - 120	<0.00020	mg/L	5.6	20
B295854	Total Molybdenum (Mo)	2024/02/27	115	80 - 120	113	80 - 120	<0.00020	mg/L	2.9	20
B295854	Total Nickel (Ni)	2024/02/27	111	80 - 120	113	80 - 120	<0.00050	mg/L	5.5	20
B295854	Total Selenium (Se)	2024/02/27	112	80 - 120	114	80 - 120	<0.00020	mg/L	2.2	20
B295854	Total Silver (Ag)	2024/02/27	108	80 - 120	108	80 - 120	<0.00010	mg/L	NC	20
B295854	Total Thallium (Tl)	2024/02/27	116	80 - 120	116	80 - 120	<0.00020	mg/L	NC	20
B295854	Total Tin (Sn)	2024/02/27	109	80 - 120	109	80 - 120	<0.0010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B295854	Total Titanium (Ti)	2024/02/27	112	80 - 120	112	80 - 120	<0.0010	mg/L	0.17	20
B295854	Total Uranium (U)	2024/02/27	114	80 - 120	116	80 - 120	<0.00010	mg/L	2.3	20
B295854	Total Vanadium (V)	2024/02/27	114	80 - 120	113	80 - 120	<0.0010	mg/L	9.9	20
B295854	Total Zinc (Zn)	2024/02/27	109	80 - 120	112	80 - 120	<0.0030	mg/L	3.0	20
B295860	Total Barium (Ba)	2024/02/27	99	80 - 120	98	80 - 120	<0.010	mg/L	1.5	20
B295860	Total Boron (B)	2024/02/27	105	80 - 120	102	80 - 120	<0.020	mg/L	NC	20
B295860	Total Calcium (Ca)	2024/02/27	NC	80 - 120	98	80 - 120	<0.30	mg/L	2.4	20
B295860	Total Iron (Fe)	2024/02/27	120	80 - 120	119	80 - 120	<0.090	mg/L	12	20
B295860	Total Lithium (Li)	2024/02/27	100	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B295860	Total Magnesium (Mg)	2024/02/27	102	80 - 120	99	80 - 120	<0.20	mg/L	2.4	20
B295860	Total Manganese (Mn)	2024/02/27	121 (1)	80 - 120	114	80 - 120	<0.0040	mg/L	0.34	20
B295860	Total Phosphorus (P)	2024/02/27	116	80 - 120	112	80 - 120	<0.10	mg/L	2.0	20
B295860	Total Potassium (K)	2024/02/27	99	80 - 120	97	80 - 120	<0.30	mg/L	3.0	20
B295860	Total Silicon (Si)	2024/02/27	114	80 - 120	108	80 - 120	<0.50	mg/L	2.9	20
B295860	Total Sodium (Na)	2024/02/27	97	80 - 120	95	80 - 120	<0.50	mg/L	2.0	20
B295860	Total Strontium (Sr)	2024/02/27	98	80 - 120	97	80 - 120	<0.020	mg/L	1.5	20
B295860	Total Sulphur (S)	2024/02/27	NC	80 - 120	106	80 - 120	<0.20	mg/L	1.6	20
B295864	Total Aluminum (Al)	2024/02/27	115	80 - 120	105	80 - 120	<0.0030	mg/L	13	20
B295864	Total Antimony (Sb)	2024/02/27	124 (1)	80 - 120	111	80 - 120	<0.00060	mg/L	NC	20
B295864	Total Arsenic (As)	2024/02/27	117	80 - 120	107	80 - 120	<0.00020	mg/L	NC	20
B295864	Total Beryllium (Be)	2024/02/27	111	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B295864	Total Chromium (Cr)	2024/02/27	120	80 - 120	110	80 - 120	<0.0010	mg/L	NC	20
B295864	Total Cobalt (Co)	2024/02/27	116	80 - 120	108	80 - 120	<0.00030	mg/L	NC	20
B295864	Total Copper (Cu)	2024/02/27	116	80 - 120	110	80 - 120	<0.0010	mg/L	3.6	20
B295864	Total Lead (Pb)	2024/02/27	120	80 - 120	112	80 - 120	<0.00020	mg/L	NC	20
B295864	Total Molybdenum (Mo)	2024/02/27	125 (1)	80 - 120	108	80 - 120	<0.00020	mg/L	9.9	20
B295864	Total Nickel (Ni)	2024/02/27	116	80 - 120	109	80 - 120	<0.00050	mg/L	NC	20
B295864	Total Selenium (Se)	2024/02/27	92	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B295864	Total Silver (Ag)	2024/02/27	116	80 - 120	107	80 - 120	<0.00010	mg/L	NC	20
B295864	Total Thallium (Tl)	2024/02/27	123 (1)	80 - 120	116	80 - 120	<0.00020	mg/L	NC	20
B295864	Total Tin (Sn)	2024/02/27	119	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
B295864	Total Titanium (Ti)	2024/02/27	117	80 - 120	109	80 - 120	<0.0010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B295864	Total Uranium (U)	2024/02/27	123 (1)	80 - 120	114	80 - 120	<0.00010	mg/L	NC	20
B295864	Total Vanadium (V)	2024/02/27	121 (1)	80 - 120	111	80 - 120	<0.0010	mg/L	NC	20
B295864	Total Zinc (Zn)	2024/02/27	109	80 - 120	103	80 - 120	<0.0030	mg/L	2.7	20
B295874	Total Barium (Ba)	2024/02/28	92	80 - 120	98	80 - 120	<0.010	mg/L	3.4	20
B295874	Total Boron (B)	2024/02/28	88	80 - 120	94	80 - 120	<0.020	mg/L	0.44	20
B295874	Total Calcium (Ca)	2024/02/28	NC	80 - 120	101	80 - 120	<0.30	mg/L	1.0	20
B295874	Total Iron (Fe)	2024/02/28	104	80 - 120	110	80 - 120	<0.060	mg/L	NC	20
B295874	Total Lithium (Li)	2024/02/28	91	80 - 120	96	80 - 120	<0.020	mg/L	0.22	20
B295874	Total Magnesium (Mg)	2024/02/28	87	80 - 120	98	80 - 120	<0.20	mg/L	3.3	20
B295874	Total Manganese (Mn)	2024/02/28	101	80 - 120	106	80 - 120	<0.0040	mg/L	1.4	20
B295874	Total Phosphorus (P)	2024/02/28	95	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B295874	Total Potassium (K)	2024/02/28	96	80 - 120	101	80 - 120	<0.30	mg/L	0.24	20
B295874	Total Silicon (Si)	2024/02/28	92	80 - 120	100	80 - 120	<0.50	mg/L	1.6	20
B295874	Total Sodium (Na)	2024/02/28	NC	80 - 120	101	80 - 120	<0.50	mg/L	1.1	20
B295874	Total Strontium (Sr)	2024/02/28	84	80 - 120	95	80 - 120	<0.020	mg/L	3.9	20
B295874	Total Sulphur (S)	2024/02/28	95	80 - 120	97	80 - 120	<0.20	mg/L	NC	20
B296307	Total Aluminum (Al)	2024/02/28	100	80 - 120	100	80 - 120	<0.0030	mg/L	17	20
B296307	Total Antimony (Sb)	2024/02/28	106	80 - 120	105	80 - 120	<0.00060	mg/L	NC	20
B296307	Total Arsenic (As)	2024/02/28	91	80 - 120	92	80 - 120	<0.00020	mg/L	2.1	20
B296307	Total Beryllium (Be)	2024/02/28	97	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B296307	Total Chromium (Cr)	2024/02/28	97	80 - 120	98	80 - 120	<0.0010	mg/L	16	20
B296307	Total Cobalt (Co)	2024/02/28	97	80 - 120	97	80 - 120	<0.00030	mg/L	NC	20
B296307	Total Copper (Cu)	2024/02/28	96	80 - 120	97	80 - 120	<0.0010	mg/L	14	20
B296307	Total Lead (Pb)	2024/02/28	102	80 - 120	102	80 - 120	<0.00020	mg/L	2.1	20
B296307	Total Molybdenum (Mo)	2024/02/28	105	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B296307	Total Nickel (Ni)	2024/02/28	95	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20
B296307	Total Selenium (Se)	2024/02/28	89	80 - 120	89	80 - 120	<0.00020	mg/L	NC	20
B296307	Total Silver (Ag)	2024/02/28	101	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B296307	Total Thallium (Tl)	2024/02/28	104	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B296307	Total Tin (Sn)	2024/02/28	100	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B296307	Total Titanium (Ti)	2024/02/28	95	80 - 120	94	80 - 120	<0.0010	mg/L	16	20
B296307	Total Uranium (U)	2024/02/28	106	80 - 120	106	80 - 120	<0.00010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B296307	Total Vanadium (V)	2024/02/28	97	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B296307	Total Zinc (Zn)	2024/02/28	87	80 - 120	89	80 - 120	<0.0030	mg/L	15	20
B296309	Total Barium (Ba)	2024/02/29	108	80 - 120	106	80 - 120	<0.010	mg/L	0	20
B296309	Total Boron (B)	2024/02/29	103	80 - 120	102	80 - 120	<0.020	mg/L	NC	20
B296309	Total Calcium (Ca)	2024/02/29	104	80 - 120	101	80 - 120	<0.30	mg/L	0.35	20
B296309	Total Iron (Fe)	2024/02/29	109	80 - 120	108	80 - 120	<0.060	mg/L	NC	20
B296309	Total Lithium (Li)	2024/02/29	101	80 - 120	99	80 - 120	<0.020	mg/L	NC	20
B296309	Total Magnesium (Mg)	2024/02/29	103	80 - 120	101	80 - 120	<0.20	mg/L	0.34	20
B296309	Total Manganese (Mn)	2024/02/29	108	80 - 120	106	80 - 120	<0.0040	mg/L	NC	20
B296309	Total Phosphorus (P)	2024/02/29	100	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B296309	Total Potassium (K)	2024/02/29	105	80 - 120	102	80 - 120	<0.30	mg/L	1.8	20
B296309	Total Silicon (Si)	2024/02/29	105	80 - 120	104	80 - 120	<0.50	mg/L	0.59	20
B296309	Total Sodium (Na)	2024/02/29	104	80 - 120	101	80 - 120	<0.50	mg/L	0.29	20
B296309	Total Strontium (Sr)	2024/02/29	104	80 - 120	102	80 - 120	<0.020	mg/L	0.58	20
B296309	Total Sulphur (S)	2024/02/29	99	80 - 120	98	80 - 120	<0.20	mg/L	0.61	20
B297515	Total Organic Carbon (C)	2024/02/28	NC	80 - 120	99	80 - 120	<0.50	mg/L	4.2	20
B297819	Dissolved Organic Carbon (C)	2024/02/28	NC	80 - 120	99	80 - 120	<0.50	mg/L	5.6	20
B298008	Total Organic Carbon (C)	2024/02/28	95	80 - 120	98	80 - 120	<0.50	mg/L	8.4	20
B298079	Total Organic Carbon (C)	2024/02/29	99	80 - 120	98	80 - 120	<0.50	mg/L	0.82	20
B298087	Dissolved Organic Carbon (C)	2024/02/28	110	80 - 120	99	80 - 120	<0.50	mg/L	6.9	20
B298567	Total Suspended Solids	2024/02/29	101	80 - 120	101	80 - 120	<1.0	mg/L	NC	20
B298842	Total Molybdenum (Mo)	2024/02/29	104	80 - 120	102	80 - 120	<0.00020	mg/L	4.6	20
B299173	Dissolved Organic Carbon (C)	2024/02/29	NC	80 - 120	99	80 - 120	<0.50	mg/L	1.3	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B299390	Turbidity	2024/02/29			100	80 - 120	<0.10	NTU	11	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

WINNIPEG ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	

RECEIPT OBSERVATIONS:

	YES	NO				
CUSTODY SEAL			COOLER ID	1		
PRESENT		/	TEMP	4.8 (1)	0.9 (2)	4.1 (3)
INTACT		/				
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID	2		
PRESENT		/	TEMP	4.2 (1)	6.6 (2)	3.1 (3)
INTACT		/				
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID	3		
PRESENT		/	TEMP	3.6 (1)	1.0 (2)	3.8 (3)
INTACT		/				
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID	4		
PRESENT		/	TEMP	5.8 (1)	4.7 (2)	1.9 (3)
INTACT		/				
ICE PRESENT	X					
CUSTODY SEAL	YES	NO	COOLER ID	5		
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	6		
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	7		
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	8		
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	9		
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	10		
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

BUREAU VERITAS JOB#

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
Katrina Schmidt	2024/02/22	1240

BUREAU VERITAS

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS:

BV JOB#:

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	2 (1)	2 (2)	2 (3)
INTACT	✓					
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	1 (1)	2 (2)	3 (3)
INTACT	✓					
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	4 (1)	1 (2)	1 (3)
INTACT	✓					
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	0 (1)	1 (2)	2 (3)
INTACT	✓					
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓		TEMP	3 (1)	1 (2)	1 (3)
INTACT	✓					
ICE PRESENT	✓					

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1	2	3
INTACT						
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
[signature]	SEANENZ	2024/02/23	~~06~~ 08:20

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #: 717398
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			
Address	3rd Floor 865 Waverly St Winnipeg MB R3T 5T4	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
Phone	(204) 896-1209 Fax:	Phone	Fax:	Project Name		C#717398-01-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, mmiemiec@kgsgroup.com	Site #	OAM - Sherridon Mine Site		
				Sampled By	RED, AR		

Regulatory Criteria: MWQSOG

Special Instructions

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT (X)
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	pH, Alkalinity	Total Suspended Solids (NFR)	Turbidity	Regulated Metals (CCME/AT1) - Total	Reg. Metals (CCME/AT1) - Diss. Lab Filt.	Hardness	Hardness Total (calculated as CaCO3)	Sulphate	Carbon (Total Organic)	Carbon (DOC) -Lab Filtered	# of Bottles	Comments
1	SID#338446	SC-1	24/02/21	11:23	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	Analyze DOC + turbidity ASAP
2	SID#338447	SB-1		10:52	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	to meet hold times.
3	SID#338448	SB-2		10:57	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
4	SID#338449	CB-1		10:23	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
5	SID#338450	CB-2		10:30	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
6	SID#338451	EB-1		10:36	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
7	SID#338452	EB-2		10:44	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
8	SID#338453	NB-1		10:13	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	mcal-2024-02-1175
9	SID#338454	NB-2		10:19	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
10	SID#338455	CLD		10:05	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Dyck	24/02/22	12:30	Kathina Schmell / SEAN ENZ	24/02/22 24/02/23	1340 08:20			ACTR	Yes / No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			717398
Address	3rd Floor 865 Waverly St	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5T4			Project Name		C#717398-02-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - Sherridon Mine Site		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, MNiemczyk@kgsgroup.com	Sampled By	RED, AR		

Regulatory Criteria: MWQSOG

Special Instructions:

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10ºC) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	pH, Alkalinity	Total Suspended Solids (NFR)	Turbidity	Regulated Metals (CCME/AT1) - Total	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	Hardness Total (calculated as CaCO3)	Sulphate	Carbon (Total Organic)	Carbon (DOC) -Lab Filtered	# of Bottles	Comments
1	SID#338456	CL-3 SFC	24/02/21	9:28	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	Analyze DOC + turbidity
2	SID#338457	CL-3 BTM	"	9:25	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	ASAP to meet hold times.
3	SID#338458	CL-7 SFC		9:36	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
4	SID#338459	CL-7 BTM		9:33	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
5	SID#338460	CL-8 SFC		9:18	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
6	SID#338461	CL-8 BTM		9:15	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
7	SID#338462	CL-2 SFC		9:46	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
8	SID#338463	CL-2 BTM		9:43	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
9	SID#338464	CL-4 SFC		9:08	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
10	SID#338465	CL-4 BTM		9:03	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Paul Wiley / Rachel Dyck	24/02/22	12:30	Katarina Schmidt	24/02/22	1240			ACT	Yes / No
			Sean Enz SEAN ENZ	2024/02/23	08:20				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			717398
Address	3rd Floor 865 Waverly St	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5T4			Project Name		C#717398-03-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - Sherridon Mine Site		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, MNiewiczyk@kgsgroup.com	Sampled By	RED, BR		

Regulatory Criteria: MWQSOG

Special Instructions:

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	pH, Alkalinity	Total Suspended Solids (NFR)	Turbidity	Regulated Metals (CCME/AT1) - Total	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	Hardness Total (calculated as CaCO3)	Sulphate	Carbon (Total Organic)	Carbon (DOC) -Lab Filtered	# of Bottles	Comments
1	SID#338466	CL-5 SFC	24/02/21	8:56	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	Analyze DOC + turbidity ASAP
2	SID#338467	CL-5 BTM		8:52	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	to meet hold times
3	SID#338468	CL-6 SFC		8:38	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
4	SID#338469	CL-6 BTM		8:42	SW	N	N	X	X	X	X	X	<	X	X	X	X	5	
5	SID#338470	SW-101		PM	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
6	SID#338471	SW-100		AM	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
7	SID#338472	SW-102	↓	AM	SW	N	N	X	X	X	X	X	X	X	Y	X	X	5	
8	SID#338473																		
9																			
10		TRIP BLANK																	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Dyck	24/02/22	12:30	Karenca Jones / Karen Jones EAN ENR	24/02/22 / 2021/02/23	12:40 / 09:20			AC	Yes / No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#723935-01-01, C#723935-02-01, C#723935-03-01

Report Date: 2024/06/05
Report #: R3509231
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C438691
Received: 2024/05/29, 11:45

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	28	N/A	2024/06/02	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	28	N/A	2024/06/01		Auto Calc
Cadmium - low level CCME (Total) (1)	15	N/A	2024/06/03		Auto Calc
Cadmium - low level CCME (Total) (1)	13	N/A	2024/06/04		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	28	N/A	2024/05/31	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	28	N/A	2024/06/03	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	19	N/A	2024/06/01		Auto Calc
Hardness (1)	9	N/A	2024/06/02		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	15	N/A	2024/06/03	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	12	N/A	2024/06/04	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	1	N/A	2024/06/05	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	28	N/A	2024/05/31	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	27	2024/06/03	2024/06/03	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	1	2024/06/03	2024/06/04	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	28	N/A	2024/05/31	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	27	2024/06/03	2024/06/03	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	1	2024/06/03	2024/06/04	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	28	N/A	2024/06/02	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	28	N/A	2024/06/03	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	16	2024/05/31	2024/06/03	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	12	2024/05/31	2024/06/04	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	27	N/A	2024/05/31	CAL SOP-00081	SM 24 2130 B m
Turbidity (1)	1	N/A	2024/06/01	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#723935-01-01, C#723935-02-01, C#723935-03-01

Report Date: 2024/06/05
Report #: R3509231
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C438691
Received: 2024/05/29, 11:45

Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(7) TOC present in the sample should be considered as non-purgeable TOC.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#723935-01-01, C#723935-02-01, C#723935-03-01

Report Date: 2024/06/05
Report #: R3509231
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C438691
Received: 2024/05/29, 11:45

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI754	COI755		COI756	COI757		
Sampling Date		2024/05/28 10:55	2024/05/28 09:40		2024/05/28 09:35	2024/05/28 09:45		
COC Number		C#723935-01-01	C#723935-01-01		C#723935-01-01	C#723935-01-01		
	UNITS	SC-1	SB-1	QC Batch	SB-2	CB-1	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.40	0.96	B384770	0.86	1.1	0.020	B384770
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.014	0.011	B386083	0.0094	0.019	0.0030	B386726
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B386083	<0.00060	<0.00060	0.00060	B386726
Dissolved Arsenic (As)	mg/L	0.00040	0.00026	B386083	0.00023	<0.00020	0.00020	B386726
Dissolved Barium (Ba)	mg/L	<0.010	0.014	B385963	0.012	0.014	0.010	B386505
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B386083	<0.0010	<0.0010	0.0010	B386726
Dissolved Boron (B)	mg/L	<0.020	<0.020	B385963	<0.020	<0.020	0.020	B386505
Dissolved Calcium (Ca)	mg/L	8.7	55	B385963	51	64	0.30	B386505
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B386083	<0.0010	<0.0010	0.0010	B386726
Dissolved Cobalt (Co)	mg/L	<0.00030	0.0013	B386083	0.0012	0.0016	0.00030	B386726
Dissolved Copper (Cu)	mg/L	0.014	0.016	B386083	0.015	0.020	0.0010	B386726
Dissolved Iron (Fe)	mg/L	<0.060	0.22	B385963	0.19	0.28	0.060	B386505
Dissolved Lead (Pb)	mg/L	0.00031	<0.00020	B386083	<0.00020	<0.00020	0.00020	B386726
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B385963	<0.020	<0.020	0.020	B386505
Dissolved Magnesium (Mg)	mg/L	2.7	8.9	B385963	8.3	10	0.20	B386505
Dissolved Manganese (Mn)	mg/L	0.0096	0.21	B385963	0.18	0.25	0.0040	B386505
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B386083	<0.00020	<0.00020	0.00020	B386726
Dissolved Nickel (Ni)	mg/L	0.00057	0.0021	B386083	0.0016	0.0022	0.00050	B386726
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B385963	<0.10	<0.10	0.10	B386505
Dissolved Potassium (K)	mg/L	1.4	4.6	B385963	4.1	5.0	0.30	B386505
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B386083	<0.00020	<0.00020	0.00020	B386726
Dissolved Silicon (Si)	mg/L	1.1	1.1	B385963	1.1	1.1	0.50	B386505
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B386083	<0.00010	<0.00010	0.00010	B386726
Dissolved Sodium (Na)	mg/L	1.7	3.4	B385963	3.2	3.7	0.50	B386505
Dissolved Strontium (Sr)	mg/L	0.020	0.053	B385963	0.050	0.058	0.020	B386505
Dissolved Sulphur (S)	mg/L	2.0	54	B385963	52	66	0.20	B386505
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B386083	<0.00020	<0.00020	0.00020	B386726
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B386083	<0.0010	<0.0010	0.0010	B386726
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B386083	<0.0010	<0.0010	0.0010	B386726
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B386083	<0.00010	<0.00010	0.00010	B386726
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B386083	<0.0010	<0.0010	0.0010	B386726

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI754	COI755		COI756	COI757		
Sampling Date		2024/05/28 10:55	2024/05/28 09:40		2024/05/28 09:35	2024/05/28 09:45		
COC Number		C#723935-01-01	C#723935-01-01		C#723935-01-01	C#723935-01-01		
	UNITS	**SC-1**	**SB-1**	**QC Batch**	**SB-2**	**CB-1**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.14	0.30	B386083	0.29	0.34	0.0030	B386726
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI758		COI759	COI760	COI761		
Sampling Date		2024/05/28 09:50		2024/05/28 09:55	2024/05/28 10:05	2024/05/28 10:15		
COC Number		C#723935-01-01		C#723935-01-01	C#723935-01-01	C#723935-01-01		
	UNITS	CB-2	QC Batch	EB-1	EB-2	NB-1	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	1.2	B384770	2.2	2.3	1.4	0.020	B384770
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.027	B386083	0.16	0.17	0.076	0.0030	B386726
Dissolved Antimony (Sb)	mg/L	<0.00060	B386083	<0.00060	<0.00060	<0.00060	0.00060	B386726
Dissolved Arsenic (As)	mg/L	<0.00020	B386083	<0.00020	<0.00020	<0.00020	0.00020	B386726
Dissolved Barium (Ba)	mg/L	0.015	B385963	0.017	0.017	0.015	0.010	B386505
Dissolved Beryllium (Be)	mg/L	<0.0010	B386083	<0.0010	<0.0010	<0.0010	0.0010	B386726
Dissolved Boron (B)	mg/L	<0.020	B385963	<0.020	<0.020	<0.020	0.020	B386505
Dissolved Calcium (Ca)	mg/L	66	B385963	75	76	74	0.30	B386505
Dissolved Chromium (Cr)	mg/L	<0.0010	B386083	<0.0010	<0.0010	<0.0010	0.0010	B386726
Dissolved Cobalt (Co)	mg/L	0.0017	B386083	0.0039	0.0043	0.0021	0.00030	B386726
Dissolved Copper (Cu)	mg/L	0.021	B386083	0.060	0.050	0.035	0.0010	B386726
Dissolved Iron (Fe)	mg/L	0.37	B385963	1.0	1.1	1.2	0.060	B386505
Dissolved Lead (Pb)	mg/L	<0.00020	B386083	<0.00020	0.00036	0.00039	0.00020	B386726
Dissolved Lithium (Li)	mg/L	<0.020	B385963	<0.020	<0.020	<0.020	0.020	B386505
Dissolved Magnesium (Mg)	mg/L	10	B385963	12	12	11	0.20	B386505
Dissolved Manganese (Mn)	mg/L	0.26	B385963	0.39	0.43	0.31	0.0040	B386505
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B386083	<0.00020	<0.00020	<0.00020	0.00020	B386726
Dissolved Nickel (Ni)	mg/L	0.0024	B386083	0.0044	0.0049	0.0024	0.00050	B386726
Dissolved Phosphorus (P)	mg/L	<0.10	B385963	<0.10	<0.10	<0.10	0.10	B386505
Dissolved Potassium (K)	mg/L	5.3	B385963	5.4	5.3	5.3	0.30	B386505
Dissolved Selenium (Se)	mg/L	<0.00020	B386083	<0.00020	<0.00020	<0.00020	0.00020	B386726
Dissolved Silicon (Si)	mg/L	1.1	B385963	1.1	1.1	1.0	0.50	B386505
Dissolved Silver (Ag)	mg/L	<0.00010	B386083	<0.00010	<0.00010	<0.00010	0.00010	B386726
Dissolved Sodium (Na)	mg/L	3.7	B385963	4.0	4.0	3.6	0.50	B386505
Dissolved Strontium (Sr)	mg/L	0.059	B385963	0.067	0.068	0.064	0.020	B386505
Dissolved Sulphur (S)	mg/L	66	B385963	80	81	80	0.20	B386505
Dissolved Thallium (Tl)	mg/L	<0.00020	B386083	<0.00020	<0.00020	<0.00020	0.00020	B386726
Dissolved Tin (Sn)	mg/L	<0.0010	B386083	<0.0010	<0.0010	<0.0010	0.0010	B386726
Dissolved Titanium (Ti)	mg/L	<0.0010	B386083	<0.0010	<0.0010	<0.0010	0.0010	B386726
Dissolved Uranium (U)	mg/L	<0.00010	B386083	<0.00010	<0.00010	<0.00010	0.00010	B386726
Dissolved Vanadium (V)	mg/L	<0.0010	B386083	<0.0010	<0.0010	<0.0010	0.0010	B386726

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI758		COI759	COI760	COI761		
Sampling Date		2024/05/28 09:50		2024/05/28 09:55	2024/05/28 10:05	2024/05/28 10:15		
COC Number		C#723935-01-01		C#723935-01-01	C#723935-01-01	C#723935-01-01		
	UNITS	**CB-2**	**QC Batch**	**EB-1**	**EB-2**	**NB-1**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.35	B386083	0.62	0.64	0.40	0.0030	B386726
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI762			COI762			COI763		
Sampling Date		2024/05/28 10:10			2024/05/28 10:10			2024/05/28 10:20		
COC Number		C#723935-01-01			C#723935-01-01			C#723935-01-01		
	UNITS	NB-2	RDL	QC Batch	NB-2 Lab-Dup	RDL	QC Batch	CLD	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	1.4	0.020	B384770				1.3	0.020	B384770
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.073	0.0030	B386726	0.072	0.0030	B386726	0.072	0.0030	B386726
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B386726	<0.00060	0.00060	B386726	<0.00060	0.00060	B386726
Dissolved Arsenic (As)	mg/L	<0.00020	0.00020	B386726	<0.00020	0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Barium (Ba)	mg/L	0.016	0.010	B386505	0.015	0.010	B386505	0.016	0.010	B386505
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B386726	<0.0010	0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Boron (B)	mg/L	<0.020	0.020	B386505	<0.020	0.020	B386505	<0.020	0.020	B386505
Dissolved Calcium (Ca)	mg/L	77	0.30	B386505	78	0.30	B386505	81	0.30	B386505
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B386726	<0.0010	0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Cobalt (Co)	mg/L	0.0021	0.00030	B386726	0.0022	0.00030	B386726	0.0020	0.00030	B386726
Dissolved Copper (Cu)	mg/L	0.034	0.0010	B386726	0.034	0.0010	B386726	0.032	0.0010	B386726
Dissolved Iron (Fe)	mg/L	1.0	0.060	B386505	1.1	0.060	B386505	1.3	0.060	B386505
Dissolved Lead (Pb)	mg/L	0.00038	0.00020	B386726	<0.00020	0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B386505	<0.020	0.020	B386505	<0.020	0.020	B386505
Dissolved Magnesium (Mg)	mg/L	12	0.20	B386505	12	0.20	B386505	13	0.20	B386505
Dissolved Manganese (Mn)	mg/L	0.32	0.0040	B386505	0.32	0.0040	B386505	0.33	0.0040	B386505
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B386726	<0.00020	0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Nickel (Ni)	mg/L	0.0025	0.00050	B386726	0.0025	0.00050	B386726	0.0024	0.00050	B386726
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B386505	<0.10	0.10	B386505	<0.10	0.10	B386505
Dissolved Potassium (K)	mg/L	5.4	0.30	B386505	5.6	0.30	B386505	5.7	0.30	B386505
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B386726	<0.00020	0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Silicon (Si)	mg/L	1.1	0.50	B386505	1.1	0.50	B386505	1.0	0.50	B386505
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B386726	<0.00010	0.00010	B386726	<0.00010	0.00010	B386726
Dissolved Sodium (Na)	mg/L	3.8	0.50	B386505	3.8	0.50	B386505	3.8	0.50	B386505
Dissolved Strontium (Sr)	mg/L	0.065	0.020	B386505	0.066	0.020	B386505	0.066	0.020	B386505
Dissolved Sulphur (S)	mg/L	81	0.20	B386505	81	0.20	B386505	83	0.20	B386505
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B386726	<0.00020	0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B386726	<0.0010	0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B386726	<0.0010	0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B386726	<0.00010	0.00010	B386726	<0.00010	0.00010	B386726

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI762			COI762			COI763		
Sampling Date		2024/05/28 10:10			2024/05/28 10:10			2024/05/28 10:20		
COC Number		C#723935-01-01			C#723935-01-01			C#723935-01-01		
	UNITS	**NB-2**	**RDL**	**QC Batch**	**NB-2 Lab-Dup**	**RDL**	**QC Batch**	**CLD**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B386726	<0.0010	0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Zinc (Zn)	mg/L	0.39	0.0030	B386726	0.40	0.0030	B386726	0.38	0.0030	B386726

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI764		COI765		COI766	COI767		
Sampling Date		2024/05/28 08:50		2024/05/28 08:50		2024/05/28 08:55	2024/05/28 08:55		
COC Number		C#723935-02-01		C#723935-02-01		C#723935-02-01	C#723935-02-01		
	UNITS	CL-3 SFC	QC Batch	CL-3 BTM	QC Batch	CL-7 SFC	CL-7 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.058	B384770	0.069	B384770	0.048	0.054	0.020	B384770
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.0097	B386726	0.010	B386083	0.0094	0.010	0.0030	B386726
Dissolved Antimony (Sb)	mg/L	<0.00060	B386726	<0.00060	B386083	<0.00060	<0.00060	0.00060	B386726
Dissolved Arsenic (As)	mg/L	0.00041	B386726	0.00041	B386083	0.00032	0.00034	0.00020	B386726
Dissolved Barium (Ba)	mg/L	<0.010	B386505	<0.010	B385963	<0.010	<0.010	0.010	B386505
Dissolved Beryllium (Be)	mg/L	<0.0010	B386726	<0.0010	B386083	<0.0010	<0.0010	0.0010	B386726
Dissolved Boron (B)	mg/L	<0.020	B386505	<0.020	B385963	<0.020	<0.020	0.020	B386505
Dissolved Calcium (Ca)	mg/L	15	B386505	15	B385963	14	14	0.30	B386505
Dissolved Chromium (Cr)	mg/L	<0.0010	B386726	<0.0010	B386083	<0.0010	<0.0010	0.0010	B386726
Dissolved Cobalt (Co)	mg/L	<0.00030	B386726	<0.00030	B386083	<0.00030	<0.00030	0.00030	B386726
Dissolved Copper (Cu)	mg/L	0.0051	B386726	0.0052	B386083	0.0048	0.0051	0.0010	B386726
Dissolved Iron (Fe)	mg/L	0.062	B386505	0.074	B385963	0.066	0.066	0.060	B386505
Dissolved Lead (Pb)	mg/L	<0.00020	B386726	<0.00020	B390155	<0.00020	<0.00020	0.00020	B386726
Dissolved Lithium (Li)	mg/L	<0.020	B386505	<0.020	B385963	<0.020	<0.020	0.020	B386505
Dissolved Magnesium (Mg)	mg/L	3.8	B386505	3.8	B385963	3.6	3.6	0.20	B386505
Dissolved Manganese (Mn)	mg/L	<0.0040	B386505	0.0067	B385963	<0.0040	<0.0040	0.0040	B386505
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B386726	<0.00020	B386083	<0.00020	<0.00020	0.00020	B386726
Dissolved Nickel (Ni)	mg/L	0.00057	B386726	0.00070	B386083	<0.00050	0.00061	0.00050	B386726
Dissolved Phosphorus (P)	mg/L	<0.10	B386505	<0.10	B385963	<0.10	<0.10	0.10	B386505
Dissolved Potassium (K)	mg/L	1.8	B386505	1.8	B385963	1.7	1.7	0.30	B386505
Dissolved Selenium (Se)	mg/L	<0.00020	B386726	<0.00020	B386083	<0.00020	<0.00020	0.00020	B386726
Dissolved Silicon (Si)	mg/L	0.69	B386505	0.70	B385963	0.68	0.68	0.50	B386505
Dissolved Silver (Ag)	mg/L	<0.00010	B386726	<0.00010	B386083	<0.00010	<0.00010	0.00010	B386726
Dissolved Sodium (Na)	mg/L	2.2	B386505	2.3	B385963	2.2	2.2	0.50	B386505
Dissolved Strontium (Sr)	mg/L	0.028	B386505	0.028	B385963	0.028	0.027	0.020	B386505
Dissolved Sulphur (S)	mg/L	8.7	B386505	8.8	B385963	8.6	8.7	0.20	B386505
Dissolved Thallium (Tl)	mg/L	<0.00020	B386726	<0.00020	B386083	<0.00020	<0.00020	0.00020	B386726
Dissolved Tin (Sn)	mg/L	<0.0010	B386726	<0.0010	B386083	<0.0010	<0.0010	0.0010	B386726
Dissolved Titanium (Ti)	mg/L	<0.0010	B386726	<0.0010	B386083	<0.0010	<0.0010	0.0010	B386726
Dissolved Uranium (U)	mg/L	<0.00010	B386726	<0.00010	B386083	<0.00010	<0.00010	0.00010	B386726
Dissolved Vanadium (V)	mg/L	<0.0010	B386726	<0.0010	B386083	<0.0010	<0.0010	0.0010	B386726

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI764		COI765		COI766	COI767		
Sampling Date		2024/05/28 08:50		2024/05/28 08:50		2024/05/28 08:55	2024/05/28 08:55		
COC Number		C#723935-02-01		C#723935-02-01		C#723935-02-01	C#723935-02-01		
	UNITS	**CL-3 SFC**	**QC Batch**	**CL-3 BTM**	**QC Batch**	**CL-7 SFC**	**CL-7 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.022	B386726	0.025	B386083	0.021	0.022	0.0030	B386726
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI768		COI769		COI770	COI771		
Sampling Date		2024/05/28 08:45		2024/05/28 08:45		2024/05/28 09:05	2024/05/28 09:05		
COC Number		C#723935-02-01		C#723935-02-01		C#723935-02-01	C#723935-02-01		
	UNITS	CL-8 SFC	QC Batch	CL-8 BTM	QC Batch	CL-2 SFC	CL-2 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.062	B384770	0.092	B384770	0.033	0.041	0.020	B384770
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.010	B386083	0.010	B386726	0.010	0.011	0.0030	B386726
Dissolved Antimony (Sb)	mg/L	<0.00060	B386083	<0.00060	B386726	<0.00060	<0.00060	0.00060	B386726
Dissolved Arsenic (As)	mg/L	0.00044	B386083	0.00036	B386726	0.00044	0.00046	0.00020	B386726
Dissolved Barium (Ba)	mg/L	<0.010	B385963	<0.010	B386506	<0.010	<0.010	0.010	B386505
Dissolved Beryllium (Be)	mg/L	<0.0010	B386083	<0.0010	B386726	<0.0010	<0.0010	0.0010	B386726
Dissolved Boron (B)	mg/L	<0.020	B385963	<0.020	B386506	<0.020	<0.020	0.020	B386505
Dissolved Calcium (Ca)	mg/L	15	B385963	15	B386506	13	13	0.30	B386505
Dissolved Chromium (Cr)	mg/L	<0.0010	B386083	<0.0010	B386726	<0.0010	<0.0010	0.0010	B386726
Dissolved Cobalt (Co)	mg/L	<0.00030	B386083	<0.00030	B386726	<0.00030	<0.00030	0.00030	B386726
Dissolved Copper (Cu)	mg/L	0.0050	B386083	0.0054	B386726	0.0045	0.0044	0.0010	B386726
Dissolved Iron (Fe)	mg/L	0.071	B385963	0.075	B386506	0.060	0.076	0.060	B386505
Dissolved Lead (Pb)	mg/L	<0.00020	B386083	<0.00020	B386726	<0.00020	<0.00020	0.00020	B386726
Dissolved Lithium (Li)	mg/L	<0.020	B385963	<0.020	B386506	<0.020	<0.020	0.020	B386505
Dissolved Magnesium (Mg)	mg/L	3.7	B385963	3.8	B386506	3.6	3.5	0.20	B386505
Dissolved Manganese (Mn)	mg/L	0.0079	B385963	0.0080	B386506	<0.0040	<0.0040	0.0040	B386505
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B386083	<0.00020	B386726	<0.00020	<0.00020	0.00020	B386726
Dissolved Nickel (Ni)	mg/L	0.00052	B386083	0.00056	B386726	<0.00050	0.00051	0.00050	B386726
Dissolved Phosphorus (P)	mg/L	<0.10	B385963	<0.10	B386506	<0.10	<0.10	0.10	B386505
Dissolved Potassium (K)	mg/L	1.8	B385963	1.8	B386506	1.7	1.7	0.30	B386505
Dissolved Selenium (Se)	mg/L	<0.00020	B386083	<0.00020	B386726	<0.00020	<0.00020	0.00020	B386726
Dissolved Silicon (Si)	mg/L	0.70	B385963	0.69	B386506	0.71	0.73	0.50	B386505
Dissolved Silver (Ag)	mg/L	<0.00010	B386083	<0.00010	B386726	<0.00010	<0.00010	0.00010	B386726
Dissolved Sodium (Na)	mg/L	2.2	B385963	2.2	B386506	2.2	2.2	0.50	B386505
Dissolved Strontium (Sr)	mg/L	0.028	B385963	0.028	B386506	0.027	0.027	0.020	B386505
Dissolved Sulphur (S)	mg/L	9.0	B385963	9.8	B386506	7.2	7.5	0.20	B386505
Dissolved Thallium (Tl)	mg/L	<0.00020	B386083	<0.00020	B386726	<0.00020	<0.00020	0.00020	B386726
Dissolved Tin (Sn)	mg/L	<0.0010	B386083	<0.0010	B386726	<0.0010	<0.0010	0.0010	B386726
Dissolved Titanium (Ti)	mg/L	<0.0010	B386083	<0.0010	B386726	<0.0010	<0.0010	0.0010	B386726
Dissolved Uranium (U)	mg/L	<0.00010	B386083	<0.00010	B386726	<0.00010	<0.00010	0.00010	B386726
Dissolved Vanadium (V)	mg/L	<0.0010	B386083	<0.0010	B386726	<0.0010	<0.0010	0.0010	B386726

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI768		COI769		COI770	COI771		
Sampling Date		2024/05/28 08:45		2024/05/28 08:45		2024/05/28 09:05	2024/05/28 09:05		
COC Number		C#723935-02-01		C#723935-02-01		C#723935-02-01	C#723935-02-01		
	UNITS	**CL-8 SFC**	**QC Batch**	**CL-8 BTM**	**QC Batch**	**CL-2 SFC**	**CL-2 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.025	B386083	0.029	B386726	0.016	0.017	0.0030	B386726
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI772	COI773		COI774		COI775		
Sampling Date		2024/05/28 08:35	2024/05/28 08:35		2024/05/28 08:25		2024/05/28 08:25		
COC Number		C#723935-02-01	C#723935-02-01		C#723935-03-01		C#723935-03-01		
	UNITS	CL-4 SFC	CL-4 BTM	QC Batch	CL-5 SFC	QC Batch	CL-5 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.039	0.028	B384770	0.036	B384770	0.033	0.020	B384770
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.0093	0.011	B386083	0.0091	B386726	0.0099	0.0030	B386083
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B386083	<0.00060	B386726	<0.00060	0.00060	B386083
Dissolved Arsenic (As)	mg/L	0.00043	0.00050	B386083	0.00042	B386726	0.00038	0.00020	B386083
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	B385963	<0.010	B386506	<0.010	0.010	B385963
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B386083	<0.0010	B386726	<0.0010	0.0010	B386083
Dissolved Boron (B)	mg/L	<0.020	<0.020	B385963	<0.020	B386506	<0.020	0.020	B385963
Dissolved Calcium (Ca)	mg/L	13	11	B385963	12	B386506	12	0.30	B385963
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B386083	<0.0010	B386726	<0.0010	0.0010	B386083
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B386083	<0.00030	B386726	<0.00030	0.00030	B386083
Dissolved Copper (Cu)	mg/L	0.0046	0.0041	B386083	0.0051	B386726	0.0052	0.0010	B386083
Dissolved Iron (Fe)	mg/L	0.061	0.10	B385963	<0.060	B386506	<0.060	0.060	B385963
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B386083	0.00026	B386726	0.00059	0.00020	B386083
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B385963	<0.020	B386506	<0.020	0.020	B385963
Dissolved Magnesium (Mg)	mg/L	3.5	3.3	B385963	3.4	B386506	3.4	0.20	B385963
Dissolved Manganese (Mn)	mg/L	<0.0040	0.0068	B385963	<0.0040	B386506	<0.0040	0.0040	B385963
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B386083	<0.00020	B386726	<0.00020	0.00020	B386083
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B386083	0.00050	B386726	0.00053	0.00050	B386083
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B385963	<0.10	B386506	<0.10	0.10	B385963
Dissolved Potassium (K)	mg/L	1.7	1.6	B385963	1.7	B386506	1.6	0.30	B385963
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B386083	<0.00020	B386726	<0.00020	0.00020	B386083
Dissolved Silicon (Si)	mg/L	0.69	0.70	B385963	0.67	B386506	0.66	0.50	B385963
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B386083	<0.00010	B386726	<0.00010	0.00010	B386083
Dissolved Sodium (Na)	mg/L	2.2	2.1	B385963	2.2	B386506	2.2	0.50	B385963
Dissolved Strontium (Sr)	mg/L	0.027	0.026	B385963	0.026	B386506	0.026	0.020	B385963
Dissolved Sulphur (S)	mg/L	7.3	5.5	B385963	6.2	B386506	5.8	0.20	B385963
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B386083	<0.00020	B386726	<0.00020	0.00020	B386083
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B386083	<0.0010	B386726	<0.0010	0.0010	B386083
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B386083	<0.0010	B386726	<0.0010	0.0010	B386083
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B386083	<0.00010	B386726	<0.00010	0.00010	B386083
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B386083	<0.0010	B386726	<0.0010	0.0010	B386083

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI772	COI773		COI774		COI775		
Sampling Date		2024/05/28 08:35	2024/05/28 08:35		2024/05/28 08:25		2024/05/28 08:25		
COC Number		C#723935-02-01	C#723935-02-01		C#723935-03-01		C#723935-03-01		
	UNITS	**CL-4 SFC**	**CL-4 BTM**	**QC Batch**	**CL-5 SFC**	**QC Batch**	**CL-5 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.017	0.015	B386083	0.019	B386726	0.017	0.0030	B386083
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI776		COI777		COI778		
Sampling Date		2024/05/28 08:15		2024/05/28 08:20		2024/05/28		
COC Number		C#723935-03-01		C#723935-03-01		C#723935-03-01		
	UNITS	CL-6 SFC	QC Batch	CL-6 BTM	QC Batch	SW-103	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	<0.020	B384770	0.026	B384770	0.041	0.020	B384771
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.015	B386726	0.011	B386726	0.013	0.0030	B386726
Dissolved Antimony (Sb)	mg/L	<0.00060	B386726	<0.00060	B386726	<0.00060	0.00060	B386726
Dissolved Arsenic (As)	mg/L	0.00046	B386726	0.00052	B386726	0.00042	0.00020	B386726
Dissolved Barium (Ba)	mg/L	<0.010	B386505	<0.010	B386506	<0.010	0.010	B386506
Dissolved Beryllium (Be)	mg/L	<0.0010	B386726	<0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Boron (B)	mg/L	<0.020	B386505	<0.020	B386506	<0.020	0.020	B386506
Dissolved Calcium (Ca)	mg/L	11	B386505	11	B386506	13	0.30	B386506
Dissolved Chromium (Cr)	mg/L	<0.0010	B386726	<0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Cobalt (Co)	mg/L	<0.00030	B386726	<0.00030	B386726	<0.00030	0.00030	B386726
Dissolved Copper (Cu)	mg/L	0.0037	B386726	0.0042	B386726	0.0046	0.0010	B386726
Dissolved Iron (Fe)	mg/L	<0.060	B386505	<0.060	B386506	<0.060	0.060	B386506
Dissolved Lead (Pb)	mg/L	<0.00020	B386726	<0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Lithium (Li)	mg/L	<0.020	B386505	<0.020	B386506	<0.020	0.020	B386506
Dissolved Magnesium (Mg)	mg/L	3.3	B386505	3.2	B386506	3.5	0.20	B386506
Dissolved Manganese (Mn)	mg/L	<0.0040	B386505	<0.0040	B386506	<0.0040	0.0040	B386506
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B386726	<0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Nickel (Ni)	mg/L	<0.00050	B386726	0.00051	B386726	0.0012	0.00050	B386726
Dissolved Phosphorus (P)	mg/L	<0.10	B386505	<0.10	B386506	<0.10	0.10	B386506
Dissolved Potassium (K)	mg/L	1.6	B386505	1.5	B386506	1.7	0.30	B386506
Dissolved Selenium (Se)	mg/L	<0.00020	B386726	<0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Silicon (Si)	mg/L	0.60	B386505	0.59	B386506	0.68	0.50	B386506
Dissolved Silver (Ag)	mg/L	<0.00010	B386726	<0.00010	B386726	<0.00010	0.00010	B386726
Dissolved Sodium (Na)	mg/L	2.1	B386505	2.1	B386506	2.2	0.50	B386506
Dissolved Strontium (Sr)	mg/L	0.025	B386505	0.025	B386506	0.027	0.020	B386506
Dissolved Sulphur (S)	mg/L	4.8	B386505	4.8	B386506	7.2	0.20	B386506
Dissolved Thallium (Tl)	mg/L	<0.00020	B386726	<0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Tin (Sn)	mg/L	<0.0010	B386726	<0.0010	B386726	<0.0010	0.0010	B390155
Dissolved Titanium (Ti)	mg/L	<0.0010	B386726	<0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Uranium (U)	mg/L	<0.00010	B386726	<0.00010	B386726	<0.00010	0.00010	B386726
Dissolved Vanadium (V)	mg/L	<0.0010	B386726	<0.0010	B386726	<0.0010	0.0010	B386726

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI776		COI777		COI778		
Sampling Date		2024/05/28 08:15		2024/05/28 08:20		2024/05/28		
COC Number		C#723935-03-01		C#723935-03-01		C#723935-03-01		
	UNITS	**CL-6 SFC**	**QC Batch**	**CL-6 BTM**	**QC Batch**	**SW-103**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.011	B386726	0.011	B386726	0.019	0.0030	B390155
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI779		COI780		COI781		
Sampling Date		2024/05/28		2024/05/28		2024/05/02		
COC Number		C#723935-03-01		C#723935-03-01		C#723935-03-01		
	UNITS	SW-104	QC Batch	SW-105	QC Batch	TRIP BLANK	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.072	B384771	0.37	B384771	<0.020	0.020	B384771
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.011	B386083	0.014	B386726	<0.0030	0.0030	B386726
Dissolved Antimony (Sb)	mg/L	<0.00060	B386083	<0.00060	B386726	<0.00060	0.00060	B386726
Dissolved Arsenic (As)	mg/L	0.00043	B386083	0.00032	B386726	<0.00020	0.00020	B386726
Dissolved Barium (Ba)	mg/L	<0.010	B385963	<0.010	B386505	<0.010	0.010	B386506
Dissolved Beryllium (Be)	mg/L	<0.0010	B386083	<0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Boron (B)	mg/L	<0.020	B385963	<0.020	B386505	<0.020	0.020	B386506
Dissolved Calcium (Ca)	mg/L	15	B385963	8.6	B386505	<0.30	0.30	B386506
Dissolved Chromium (Cr)	mg/L	<0.0010	B386083	<0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Cobalt (Co)	mg/L	<0.00030	B386083	<0.00030	B386726	<0.00030	0.00030	B386726
Dissolved Copper (Cu)	mg/L	0.0050	B386083	0.014	B386726	<0.0010	0.0010	B386726
Dissolved Iron (Fe)	mg/L	0.079	B385963	<0.060	B386505	<0.060	0.060	B386506
Dissolved Lead (Pb)	mg/L	<0.00020	B386083	<0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Lithium (Li)	mg/L	<0.020	B385963	<0.020	B386505	<0.020	0.020	B386506
Dissolved Magnesium (Mg)	mg/L	3.8	B385963	2.7	B386505	<0.20	0.20	B386506
Dissolved Manganese (Mn)	mg/L	0.0081	B385963	0.0090	B386505	<0.0040	0.0040	B386506
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B386083	<0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Nickel (Ni)	mg/L	0.00066	B386083	<0.00050	B386726	<0.00050	0.00050	B386726
Dissolved Phosphorus (P)	mg/L	<0.10	B385963	<0.10	B386505	<0.10	0.10	B386506
Dissolved Potassium (K)	mg/L	1.8	B385963	1.4	B386505	<0.30	0.30	B386506
Dissolved Selenium (Se)	mg/L	<0.00020	B386083	<0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Silicon (Si)	mg/L	0.71	B385963	1.1	B386505	<0.50	0.50	B386506
Dissolved Silver (Ag)	mg/L	<0.00010	B386083	<0.00010	B386726	<0.00010	0.00010	B386726
Dissolved Sodium (Na)	mg/L	2.2	B385963	1.7	B386505	<0.50	0.50	B386506
Dissolved Strontium (Sr)	mg/L	0.028	B385963	0.020	B386505	<0.020	0.020	B386506
Dissolved Sulphur (S)	mg/L	9.2	B385963	2.0	B386505	<0.20	0.20	B386506
Dissolved Thallium (Tl)	mg/L	<0.00020	B386083	<0.00020	B386726	<0.00020	0.00020	B386726
Dissolved Tin (Sn)	mg/L	<0.0010	B386083	<0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Titanium (Ti)	mg/L	<0.0010	B386083	<0.0010	B386726	<0.0010	0.0010	B386726
Dissolved Uranium (U)	mg/L	<0.00010	B386083	<0.00010	B386726	<0.00010	0.00010	B386726
Dissolved Vanadium (V)	mg/L	<0.0010	B386083	<0.0010	B386726	<0.0010	0.0010	B386726

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		COI779		COI780		COI781		
Sampling Date		2024/05/28		2024/05/28		2024/05/02		
COC Number		C#723935-03-01		C#723935-03-01		C#723935-03-01		
	UNITS	**SW-104**	**QC Batch**	**SW-105**	**QC Batch**	**TRIP BLANK**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.026	B386083	0.13	B386726	<0.0030	0.0030	B386726
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI754	COI755			COI755		
Sampling Date		2024/05/28 10:55	2024/05/28 09:40			2024/05/28 09:40		
COC Number		C#723935-01-01	C#723935-01-01			C#723935-01-01		
	UNITS	SC-1	SB-1	RDL	QC Batch	SB-1 Lab-Dup	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.44	0.97	0.020	B384137			
Total Aluminum (Al)	mg/L	0.036	0.057	0.0030	B388728	0.058	0.0030	B388728
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B388728	<0.00060	0.00060	B388728
Total Arsenic (As)	mg/L	0.00040	0.00022	0.00020	B388728	0.00031	0.00020	B388728
Total Barium (Ba)	mg/L	<0.010	0.012	0.010	B388713	0.013	0.010	B388713
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B388728	<0.0010	0.0010	B388728
Total Boron (B)	mg/L	<0.020	<0.020	0.020	B388713	<0.020	0.020	B388713
Total Calcium (Ca)	mg/L	8.6	50	0.30	B388713	52	0.30	B388713
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B388728	<0.0010	0.0010	B388728
Total Cobalt (Co)	mg/L	<0.00030	0.0012	0.00030	B388728	0.0012	0.00030	B388728
Total Copper (Cu)	mg/L	0.014	0.021	0.0010	B388728	0.021	0.0010	B388728
Total Iron (Fe)	mg/L	0.10	1.8	0.060	B388713	1.8	0.060	B388713
Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00020	B388728	<0.00020	0.00020	B388728
Total Lithium (Li)	mg/L	<0.020	<0.020	0.020	B388713	<0.020	0.020	B388713
Total Magnesium (Mg)	mg/L	2.6	7.8	0.20	B388713	8.1	0.20	B388713
Total Manganese (Mn)	mg/L	0.015	0.20	0.0040	B388713	0.20	0.0040	B388713
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	0.00020	B388728	<0.00020	0.00020	B388728
Total Nickel (Ni)	mg/L	0.00056	0.0017	0.00050	B388728	0.0016	0.00050	B388728
Total Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B388713	<0.10	0.10	B388713
Total Potassium (K)	mg/L	1.2	3.9	0.30	B388713	4.0	0.30	B388713
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B388728	<0.00020	0.00020	B388728
Total Silicon (Si)	mg/L	1.3	1.2	0.50	B388713	1.2	0.50	B388713
Total Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B388728	<0.00010	0.00010	B388728
Total Sodium (Na)	mg/L	1.7	3.1	0.50	B388713	3.2	0.50	B388713
Total Strontium (Sr)	mg/L	0.020	0.051	0.020	B388713	0.053	0.020	B388713
Total Sulphur (S)	mg/L	2.0	50	0.20	B388713	52	0.20	B388713
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B388728	<0.00020	0.00020	B388728
Total Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B388728	<0.0010	0.0010	B388728
Total Titanium (Ti)	mg/L	0.0012	0.0018	0.0010	B388728	0.0015	0.0010	B388728
Total Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	B388728	<0.00010	0.00010	B388728
Total Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B388728	<0.0010	0.0010	B388728

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI754	COI755			COI755		
Sampling Date		2024/05/28 10:55	2024/05/28 09:40			2024/05/28 09:40		
COC Number		C#723935-01-01	C#723935-01-01			C#723935-01-01		
	UNITS	**SC-1**	**SB-1**	**RDL**	**QC Batch**	**SB-1 Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.13	0.27	0.0030	B388728	0.28	0.0030	B388728

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI756		COI757		COI758		
Sampling Date		2024/05/28 09:35		2024/05/28 09:45		2024/05/28 09:50		
COC Number		C#723935-01-01		C#723935-01-01		C#723935-01-01		
	UNITS	SB-2	QC Batch	CB-1	QC Batch	CB-2	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	1.1	B384137	1.2	B384137	1.3	0.020	B384137
Total Aluminum (Al)	mg/L	0.060	B388728	0.074	B388292	0.079	0.0030	B388752
Total Antimony (Sb)	mg/L	<0.00060	B388728	<0.00060	B388292	<0.00060	0.00060	B388752
Total Arsenic (As)	mg/L	0.00029	B388728	0.00034	B388292	0.00032	0.00020	B388752
Total Barium (Ba)	mg/L	0.012	B388713	0.016	B388205	0.016	0.010	B388756
Total Beryllium (Be)	mg/L	<0.0010	B388728	<0.0010	B388292	<0.0010	0.0010	B388752
Total Boron (B)	mg/L	<0.020	B388713	<0.020	B388205	<0.020	0.020	B388756
Total Calcium (Ca)	mg/L	48	B388713	66	B388205	67	0.30	B388756
Total Chromium (Cr)	mg/L	<0.0010	B388728	<0.0010	B388292	<0.0010	0.0010	B388752
Total Cobalt (Co)	mg/L	0.0013	B388728	0.0016	B388292	0.0018	0.00030	B388752
Total Copper (Cu)	mg/L	0.023	B388728	0.025	B388292	0.026	0.0010	B388752
Total Iron (Fe)	mg/L	1.7	B388713	2.3	B388205	2.1	0.060	B388756
Total Lead (Pb)	mg/L	<0.00020	B388728	<0.00020	B388292	<0.00020	0.00020	B388752
Total Lithium (Li)	mg/L	<0.020	B388713	<0.020	B388205	<0.020	0.020	B388756
Total Magnesium (Mg)	mg/L	7.6	B388713	10	B388205	10	0.20	B388756
Total Manganese (Mn)	mg/L	0.19	B388713	0.26	B388205	0.28	0.0040	B388756
Total Molybdenum (Mo)	mg/L	<0.00020	B388728	<0.00020	B388292	<0.00020	0.00020	B388752
Total Nickel (Ni)	mg/L	0.0023	B388728	0.0019	B388292	0.0020	0.00050	B388752
Total Phosphorus (P)	mg/L	<0.10	B388713	<0.10	B388205	<0.10	0.10	B388756
Total Potassium (K)	mg/L	3.9	B388713	5.2	B388205	5.1	0.30	B388756
Total Selenium (Se)	mg/L	<0.00020	B388728	<0.00020	B388292	<0.00020	0.00020	B388752
Total Silicon (Si)	mg/L	1.2	B388713	1.3	B388205	1.3	0.50	B388756
Total Silver (Ag)	mg/L	<0.00010	B388728	<0.00010	B388292	<0.00010	0.00010	B388752
Total Sodium (Na)	mg/L	3.0	B388713	3.7	B388205	3.8	0.50	B388756
Total Strontium (Sr)	mg/L	0.049	B388713	0.062	B388205	0.068	0.020	B388756
Total Sulphur (S)	mg/L	48	B388713	68	B388205	69	0.20	B388756
Total Thallium (Tl)	mg/L	<0.00020	B388728	<0.00020	B388292	<0.00020	0.00020	B388752
Total Tin (Sn)	mg/L	<0.0010	B388728	<0.0010	B388292	<0.0010	0.0010	B388752
Total Titanium (Ti)	mg/L	0.0021	B388728	0.0017	B388292	0.0016	0.0010	B388752
Total Uranium (U)	mg/L	<0.00010	B388728	<0.00010	B388292	<0.00010	0.00010	B388752
Total Vanadium (V)	mg/L	<0.0010	B388728	<0.0010	B388292	<0.0010	0.0010	B388752

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI756		COI757		COI758		
Sampling Date		2024/05/28 09:35		2024/05/28 09:45		2024/05/28 09:50		
COC Number		C#723935-01-01		C#723935-01-01		C#723935-01-01		
	UNITS	**SB-2**	**QC Batch**	**CB-1**	**QC Batch**	**CB-2**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.29	B388728	0.32	B388292	0.34	0.0030	B388752
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI759		COI760		COI761	COI762		
Sampling Date		2024/05/28 09:55		2024/05/28 10:05		2024/05/28 10:15	2024/05/28 10:10		
COC Number		C#723935-01-01		C#723935-01-01		C#723935-01-01	C#723935-01-01		
	UNITS	EB-1	QC Batch	EB-2	QC Batch	NB-1	NB-2	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	2.3	B384137	2.9	B384137	1.8	1.7	0.020	B384137
Total Aluminum (Al)	mg/L	0.18	B388895	0.23	B388728	0.11	0.11	0.0030	B388292
Total Antimony (Sb)	mg/L	<0.00060	B388895	<0.00060	B388728	<0.00060	<0.00060	0.00060	B388292
Total Arsenic (As)	mg/L	0.00041	B388895	0.00029	B388728	0.00034	0.00034	0.00020	B388292
Total Barium (Ba)	mg/L	0.019	B388902	0.017	B388713	0.017	0.016	0.010	B388205
Total Beryllium (Be)	mg/L	<0.0010	B388895	<0.0010	B388728	<0.0010	<0.0010	0.0010	B388292
Total Boron (B)	mg/L	<0.020	B388902	<0.020	B388713	<0.020	<0.020	0.020	B388205
Total Calcium (Ca)	mg/L	78	B388902	74	B388713	80	74	0.30	B388205
Total Chromium (Cr)	mg/L	<0.0010	B388895	<0.0010	B388728	<0.0010	<0.0010	0.0010	B388292
Total Cobalt (Co)	mg/L	0.0042	B388895	0.0049	B388728	0.0024	0.0023	0.00030	B388292
Total Copper (Cu)	mg/L	0.065	B388895	0.057	B388728	0.040	0.039	0.0010	B388292
Total Iron (Fe)	mg/L	1.6	B388902	1.2	B388713	2.2	1.9	0.060	B388205
Total Lead (Pb)	mg/L	<0.00020	B388895	<0.00020	B388728	<0.00020	<0.00020	0.00020	B388292
Total Lithium (Li)	mg/L	<0.020	B388902	<0.020	B388713	<0.020	<0.020	0.020	B388205
Total Magnesium (Mg)	mg/L	12	B388902	11	B388713	13	11	0.20	B388205
Total Manganese (Mn)	mg/L	0.45	B388902	0.44	B388713	0.35	0.32	0.0040	B388205
Total Molybdenum (Mo)	mg/L	<0.00020	B388895	<0.00020	B388728	<0.00020	<0.00020	0.00020	B388292
Total Nickel (Ni)	mg/L	0.0044	B388895	0.0053	B388728	0.0029	0.0027	0.00050	B388292
Total Phosphorus (P)	mg/L	<0.10	B388902	<0.10	B388713	<0.10	<0.10	0.10	B388205
Total Potassium (K)	mg/L	5.5	B388902	5.1	B388713	5.6	5.2	0.30	B388205
Total Selenium (Se)	mg/L	0.00024	B388895	<0.00020	B388728	<0.00020	<0.00020	0.00020	B388292
Total Silicon (Si)	mg/L	1.4	B388902	1.3	B388713	1.3	1.2	0.50	B388205
Total Silver (Ag)	mg/L	<0.00010	B388895	<0.00010	B388728	<0.00010	<0.00010	0.00010	B388292
Total Sodium (Na)	mg/L	4.1	B388902	3.9	B388713	3.8	3.6	0.50	B388205
Total Strontium (Sr)	mg/L	0.071	B388902	0.072	B388713	0.067	0.063	0.020	B388205
Total Sulphur (S)	mg/L	85	B388902	76	B388713	84	77	0.20	B388205
Total Thallium (Tl)	mg/L	<0.00020	B388895	<0.00020	B388728	<0.00020	<0.00020	0.00020	B388292
Total Tin (Sn)	mg/L	<0.0010	B388895	<0.0010	B388728	<0.0010	<0.0010	0.0010	B388292
Total Titanium (Ti)	mg/L	0.0010	B388895	0.0016	B388728	<0.0010	<0.0010	0.0010	B388292
Total Uranium (U)	mg/L	<0.00010	B388895	<0.00010	B388728	<0.00010	<0.00010	0.00010	B388292
Total Vanadium (V)	mg/L	<0.0010	B388895	<0.0010	B388728	<0.0010	<0.0010	0.0010	B388292

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI759		COI760		COI761	COI762		
Sampling Date		2024/05/28 09:55		2024/05/28 10:05		2024/05/28 10:15	2024/05/28 10:10		
COC Number		C#723935-01-01		C#723935-01-01		C#723935-01-01	C#723935-01-01		
	UNITS	**EB-1**	**QC Batch**	**EB-2**	**QC Batch**	**NB-1**	**NB-2**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.65	B388895	0.75	B388728	0.45	0.43	0.0030	B388292
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI763	COI764	COI765	COI766		
Sampling Date		2024/05/28 10:20	2024/05/28 08:50	2024/05/28 08:50	2024/05/28 08:55		
COC Number		C#723935-01-01	C#723935-02-01	C#723935-02-01	C#723935-02-01		
	UNITS	CLD	CL-3 SFC	CL-3 BTM	CL-7 SFC	RDL	QC Batch
Elements							
Total Cadmium (Cd)	ug/L	1.5	0.081	0.12	0.089	0.020	B384137
Total Aluminum (Al)	mg/L	0.10	0.031	0.048	0.037	0.0030	B388728
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B388728
Total Arsenic (As)	mg/L	0.00028	0.00056	0.00065	0.00049	0.00020	B388728
Total Barium (Ba)	mg/L	0.014	<0.010	<0.010	<0.010	0.010	B388713
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B388728
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B388713
Total Calcium (Ca)	mg/L	73	13	15	15	0.30	B388713
Total Chromium (Cr)	mg/L	<0.0010	0.0012	<0.0010	<0.0010	0.0010	B388728
Total Cobalt (Co)	mg/L	0.0020	<0.00030	<0.00030	<0.00030	0.00030	B388728
Total Copper (Cu)	mg/L	0.032	0.0048	0.0064	0.0057	0.0010	B388728
Total Iron (Fe)	mg/L	1.8	0.25	0.27	0.26	0.060	B388713
Total Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B388728
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B388713
Total Magnesium (Mg)	mg/L	11	3.3	3.6	3.7	0.20	B388713
Total Manganese (Mn)	mg/L	0.32	0.025	0.029	0.027	0.0040	B388713
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B388728
Total Nickel (Ni)	mg/L	0.0024	0.00061	0.00056	0.00053	0.00050	B388728
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	0.10	B388713
Total Potassium (K)	mg/L	5.0	1.5	1.6	1.7	0.30	B388713
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B388728
Total Silicon (Si)	mg/L	1.2	0.87	0.86	0.90	0.50	B388713
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B388728
Total Sodium (Na)	mg/L	3.5	2.1	2.2	2.3	0.50	B388713
Total Strontium (Sr)	mg/L	0.066	0.026	0.029	0.029	0.020	B388713
Total Sulphur (S)	mg/L	76	7.9	8.7	8.5	0.20	B388713
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B388728
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B388728
Total Titanium (Ti)	mg/L	0.0014	0.0012	0.0018	0.0013	0.0010	B388728
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B388728
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B388728

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI763	COI764	COI765	COI766		
Sampling Date		2024/05/28 10:20	2024/05/28 08:50	2024/05/28 08:50	2024/05/28 08:55		
COC Number		C#723935-01-01	C#723935-02-01	C#723935-02-01	C#723935-02-01		
	UNITS	CLD	CL-3 SFC	CL-3 BTM	CL-7 SFC	RDL	QC Batch
Total Zinc (Zn)	mg/L	0.40	0.027	0.037	0.030	0.0030	B388728
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI767		COI768		COI769		
Sampling Date		2024/05/28 08:55		2024/05/28 08:45		2024/05/28 08:45		
COC Number		C#723935-02-01		C#723935-02-01		C#723935-02-01		
	UNITS	CL-7 BTM	QC Batch	CL-8 SFC	QC Batch	CL-8 BTM	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.092	B384137	0.11	B384137	0.11	0.020	B384774
Total Aluminum (Al)	mg/L	0.044	B388752	0.045	B388292	0.040	0.0030	B388728
Total Antimony (Sb)	mg/L	<0.00060	B388752	<0.00060	B388292	<0.00060	0.00060	B388728
Total Arsenic (As)	mg/L	0.00054	B388752	0.00054	B388292	0.00053	0.00020	B388728
Total Barium (Ba)	mg/L	0.010	B388756	<0.010	B388205	<0.010	0.010	B388713
Total Beryllium (Be)	mg/L	<0.0010	B388752	<0.0010	B388292	<0.0010	0.0010	B388728
Total Boron (B)	mg/L	<0.020	B388756	<0.020	B388205	<0.020	0.020	B388713
Total Calcium (Ca)	mg/L	16	B388756	15	B388205	16	0.30	B388713
Total Chromium (Cr)	mg/L	<0.0010	B388752	<0.0010	B388292	<0.0010	0.0010	B388728
Total Cobalt (Co)	mg/L	<0.00030	B388752	<0.00030	B388292	<0.00030	0.00030	B388728
Total Copper (Cu)	mg/L	0.0054	B388752	0.0053	B388292	0.0057	0.0010	B388728
Total Iron (Fe)	mg/L	0.31	B388756	0.28	B388205	0.25	0.060	B388713
Total Lead (Pb)	mg/L	<0.00020	B388752	<0.00020	B388292	0.00030	0.00020	B388728
Total Lithium (Li)	mg/L	<0.020	B388756	<0.020	B388205	<0.020	0.020	B388713
Total Magnesium (Mg)	mg/L	3.9	B388756	3.8	B388205	3.7	0.20	B388713
Total Manganese (Mn)	mg/L	0.031	B388756	0.029	B388205	0.028	0.0040	B388713
Total Molybdenum (Mo)	mg/L	<0.00020	B388752	<0.00020	B388292	<0.00020	0.00020	B388728
Total Nickel (Ni)	mg/L	0.00057	B388752	0.00063	B388292	0.00068	0.00050	B388728
Total Phosphorus (P)	mg/L	<0.10	B388756	<0.10	B388205	<0.10	0.10	B388713
Total Potassium (K)	mg/L	1.8	B388756	1.8	B388205	1.6	0.30	B388713
Total Selenium (Se)	mg/L	<0.00020	B388752	<0.00020	B388292	<0.00020	0.00020	B388728
Total Silicon (Si)	mg/L	1.0	B388756	0.84	B388205	0.76	0.50	B388713
Total Silver (Ag)	mg/L	<0.00010	B388752	<0.00010	B388292	<0.00010	0.00010	B388728
Total Sodium (Na)	mg/L	2.4	B388756	2.2	B388205	2.3	0.50	B388713
Total Strontium (Sr)	mg/L	0.032	B388756	0.028	B388205	0.029	0.020	B388713
Total Sulphur (S)	mg/L	9.1	B388756	9.3	B388205	8.4	0.20	B388713
Total Thallium (Tl)	mg/L	<0.00020	B388752	<0.00020	B388292	<0.00020	0.00020	B388728
Total Tin (Sn)	mg/L	<0.0010	B388752	<0.0010	B388292	<0.0010	0.0010	B388728
Total Titanium (Ti)	mg/L	0.0012	B388752	0.0014	B388292	0.0010	0.0010	B388728
Total Uranium (U)	mg/L	<0.00010	B388752	<0.00010	B388292	<0.00010	0.00010	B388728
Total Vanadium (V)	mg/L	<0.0010	B388752	<0.0010	B388292	<0.0010	0.0010	B388728

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI767		COI768		COI769		
Sampling Date		2024/05/28 08:55		2024/05/28 08:45		2024/05/28 08:45		
COC Number		C#723935-02-01		C#723935-02-01		C#723935-02-01		
	UNITS	**CL-7 BTM**	**QC Batch**	**CL-8 SFC**	**QC Batch**	**CL-8 BTM**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.029	B388752	0.032	B388292	0.036	0.0030	B388728
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI770	COI771	COI772	COI773		
Sampling Date		2024/05/28 09:05	2024/05/28 09:05	2024/05/28 08:35	2024/05/28 08:35		
COC Number		C#723935-02-01	C#723935-02-01	C#723935-02-01	C#723935-02-01		
	UNITS	CL-2 SFC	CL-2 BTM	CL-4 SFC	CL-4 BTM	RDL	QC Batch
Elements							
Total Cadmium (Cd)	ug/L	0.053	0.060	0.067	0.056	0.020	B384774
Total Aluminum (Al)	mg/L	0.043	0.046	0.039	0.063	0.0030	B388292
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B388292
Total Arsenic (As)	mg/L	0.00054	0.00062	0.00066	0.00076	0.00020	B388292
Total Barium (Ba)	mg/L	<0.010	<0.010	<0.010	0.010	0.010	B388205
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B388292
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B388205
Total Calcium (Ca)	mg/L	14	13	14	13	0.30	B388205
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B388292
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B388292
Total Copper (Cu)	mg/L	0.0044	0.0048	0.0048	0.0052	0.0010	B388292
Total Iron (Fe)	mg/L	0.27	0.33	0.27	0.48	0.060	B388205
Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00026	0.00028	0.00020	B388292
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B388205
Total Magnesium (Mg)	mg/L	3.7	3.6	3.8	3.7	0.20	B388205
Total Manganese (Mn)	mg/L	0.022	0.028	0.023	0.028	0.0040	B388205
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B388292
Total Nickel (Ni)	mg/L	<0.00050	<0.00050	<0.00050	0.00051	0.00050	B388292
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	0.10	B388205
Total Potassium (K)	mg/L	1.7	1.7	1.7	1.7	0.30	B388205
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B388292
Total Silicon (Si)	mg/L	0.89	0.95	0.86	0.93	0.50	B388205
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B388292
Total Sodium (Na)	mg/L	2.2	2.1	2.2	2.3	0.50	B388205
Total Strontium (Sr)	mg/L	0.028	0.028	0.028	0.028	0.020	B388205
Total Sulphur (S)	mg/L	7.2	7.4	7.6	5.9	0.20	B388205
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B388292
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B388292
Total Titanium (Ti)	mg/L	0.0016	0.0015	0.0012	0.0017	0.0010	B388292
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B388292
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B388292

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI770	COI771	COI772	COI773		
Sampling Date		2024/05/28 09:05	2024/05/28 09:05	2024/05/28 08:35	2024/05/28 08:35		
COC Number		C#723935-02-01	C#723935-02-01	C#723935-02-01	C#723935-02-01		
	UNITS	CL-2 SFC	CL-2 BTM	CL-4 SFC	CL-4 BTM	RDL	QC Batch
Total Zinc (Zn)	mg/L	0.020	0.020	0.022	0.020	0.0030	B388292
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI774		COI775	COI776	COI777		
Sampling Date		2024/05/28 08:25		2024/05/28 08:25	2024/05/28 08:15	2024/05/28 08:20		
COC Number		C#723935-03-01		C#723935-03-01	C#723935-03-01	C#723935-03-01		
	UNITS	CL-5 SFC	QC Batch	CL-5 BTM	CL-6 SFC	CL-6 BTM	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.059	B384774	0.066	0.030	0.056	0.020	B384774
Total Aluminum (Al)	mg/L	0.040	B388728	0.052	0.053	0.057	0.0030	B388292
Total Antimony (Sb)	mg/L	<0.00060	B388728	<0.00060	<0.00060	<0.00060	0.00060	B388292
Total Arsenic (As)	mg/L	0.00043	B388728	0.00060	0.00064	0.00071	0.00020	B388292
Total Barium (Ba)	mg/L	<0.010	B388713	<0.010	<0.010	<0.010	0.010	B388205
Total Beryllium (Be)	mg/L	<0.0010	B388728	<0.0010	<0.0010	<0.0010	0.0010	B388292
Total Boron (B)	mg/L	<0.020	B388713	<0.020	<0.020	<0.020	0.020	B388205
Total Calcium (Ca)	mg/L	12	B388713	12	11	11	0.30	B388205
Total Chromium (Cr)	mg/L	<0.0010	B388728	<0.0010	<0.0010	<0.0010	0.0010	B388292
Total Cobalt (Co)	mg/L	<0.00030	B388728	<0.00030	<0.00030	<0.00030	0.00030	B388292
Total Copper (Cu)	mg/L	0.0047	B388728	0.0057	0.0038	0.0048	0.0010	B388292
Total Iron (Fe)	mg/L	0.19	B388713	0.25	0.18	0.18	0.060	B388205
Total Lead (Pb)	mg/L	<0.00020	B388728	<0.00020	0.00022	0.00065	0.00020	B388292
Total Lithium (Li)	mg/L	<0.020	B388713	<0.020	<0.020	<0.020	0.020	B388205
Total Magnesium (Mg)	mg/L	3.2	B388713	3.6	3.4	3.4	0.20	B388205
Total Manganese (Mn)	mg/L	0.018	B388713	0.020	0.013	0.014	0.0040	B388205
Total Molybdenum (Mo)	mg/L	<0.00020	B388728	<0.00020	<0.00020	<0.00020	0.00020	B388292
Total Nickel (Ni)	mg/L	<0.00050	B388728	0.00060	0.00068	0.00069	0.00050	B388292
Total Phosphorus (P)	mg/L	<0.10	B388713	<0.10	<0.10	<0.10	0.10	B388205
Total Potassium (K)	mg/L	1.4	B388713	1.7	1.7	1.6	0.30	B388205
Total Selenium (Se)	mg/L	<0.00020	B388728	<0.00020	<0.00020	<0.00020	0.00020	B388292
Total Silicon (Si)	mg/L	0.84	B388713	0.85	0.78	0.78	0.50	B388205
Total Silver (Ag)	mg/L	<0.00010	B388728	<0.00010	<0.00010	<0.00010	0.00010	B388292
Total Sodium (Na)	mg/L	2.1	B388713	2.2	2.1	2.1	0.50	B388205
Total Strontium (Sr)	mg/L	0.026	B388713	0.027	0.026	0.026	0.020	B388205
Total Sulphur (S)	mg/L	5.7	B388713	6.1	4.7	4.8	0.20	B388205
Total Thallium (Tl)	mg/L	<0.00020	B388728	<0.00020	<0.00020	<0.00020	0.00020	B388292
Total Tin (Sn)	mg/L	<0.0010	B388728	<0.0010	<0.0010	<0.0010	0.0010	B388292
Total Titanium (Ti)	mg/L	0.0017	B388728	0.0014	0.0016	0.0023	0.0010	B388292
Total Uranium (U)	mg/L	<0.00010	B388728	<0.00010	<0.00010	<0.00010	0.00010	B388292
Total Vanadium (V)	mg/L	<0.0010	B388728	<0.0010	<0.0010	<0.0010	0.0010	B388292

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI774		COI775	COI776	COI777		
Sampling Date		2024/05/28 08:25		2024/05/28 08:25	2024/05/28 08:15	2024/05/28 08:20		
COC Number		C#723935-03-01		C#723935-03-01	C#723935-03-01	C#723935-03-01		
	UNITS	**CL-5 SFC**	**QC Batch**	**CL-5 BTM**	**CL-6 SFC**	**CL-6 BTM**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.024	B388728	0.027	0.015	0.018	0.0030	B388292
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI778	COI779	COI780	COI781		
Sampling Date		2024/05/28	2024/05/28	2024/05/28	2024/05/02		
COC Number		C#723935-03-01	C#723935-03-01	C#723935-03-01	C#723935-03-01		
	UNITS	SW-103	SW-104	SW-105	TRIP BLANK	RDL	QC Batch
Elements							
Total Cadmium (Cd)	ug/L	0.071	0.096	0.55	<0.020	0.020	B384774
Total Aluminum (Al)	mg/L	0.074	0.046	0.049	<0.0030	0.0030	B388292
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B388292
Total Arsenic (As)	mg/L	0.00057	0.00059	0.00061	0.00021	0.00020	B388292
Total Barium (Ba)	mg/L	<0.010	<0.010	<0.010	<0.010	0.010	B388205
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B388292
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B388205
Total Calcium (Ca)	mg/L	13	15	8.8	<0.30	0.30	B388205
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B388292
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B388292
Total Copper (Cu)	mg/L	0.0052	0.0054	0.019	<0.0010	0.0010	B388292
Total Iron (Fe)	mg/L	0.26	0.31	0.13	<0.060	0.060	B388205
Total Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B388292
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B388205
Total Magnesium (Mg)	mg/L	3.6	3.8	2.8	<0.20	0.20	B388205
Total Manganese (Mn)	mg/L	0.022	0.029	0.015	<0.0040	0.0040	B388205
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B388292
Total Nickel (Ni)	mg/L	0.00055	0.00055	0.00062	<0.00050	0.00050	B388292
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	0.10	B388205
Total Potassium (K)	mg/L	1.7	1.8	1.4	<0.30	0.30	B388205
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	<0.00020	0.00020	B388292
Total Silicon (Si)	mg/L	0.85	0.86	1.3	<0.50	0.50	B388205
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B388292
Total Sodium (Na)	mg/L	2.1	2.2	1.7	<0.50	0.50	B388205
Total Strontium (Sr)	mg/L	0.028	0.029	0.021	<0.020	0.020	B388205
Total Sulphur (S)	mg/L	7.3	9.1	2.1	<0.20	0.20	B388205
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B388292
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B388292
Total Titanium (Ti)	mg/L	0.0014	0.0011	0.0011	<0.0010	0.0010	B388292
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B388292
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B388292

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI778	COI779	COI780	COI781		
Sampling Date		2024/05/28	2024/05/28	2024/05/28	2024/05/02		
COC Number		C#723935-03-01	C#723935-03-01	C#723935-03-01	C#723935-03-01		
	UNITS	**SW-103**	**SW-104**	**SW-105**	**TRIP BLANK**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.026	0.032	0.17	<0.0030	0.0030	B388292
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		COI781		
Sampling Date		2024/05/02		
COC Number		C#723935-03-01		
	UNITS	TRIP BLANK Lab-Dup	RDL	QC Batch
Elements				
Total Aluminum (Al)	mg/L	<0.0030	0.0030	B388292
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B388292
Total Arsenic (As)	mg/L	<0.00020	0.00020	B388292
Total Barium (Ba)	mg/L	<0.010	0.010	B388205
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B388292
Total Boron (B)	mg/L	<0.020	0.020	B388205
Total Calcium (Ca)	mg/L	<0.30	0.30	B388205
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B388292
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B388292
Total Copper (Cu)	mg/L	<0.0010	0.0010	B388292
Total Iron (Fe)	mg/L	<0.060	0.060	B388205
Total Lead (Pb)	mg/L	0.00026	0.00020	B388292
Total Lithium (Li)	mg/L	<0.020	0.020	B388205
Total Magnesium (Mg)	mg/L	<0.20	0.20	B388205
Total Manganese (Mn)	mg/L	<0.0040	0.0040	B388205
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B388292
Total Nickel (Ni)	mg/L	<0.00050	0.00050	B388292
Total Phosphorus (P)	mg/L	<0.10	0.10	B388205
Total Potassium (K)	mg/L	<0.30	0.30	B388205
Total Selenium (Se)	mg/L	<0.00020	0.00020	B388292
Total Silicon (Si)	mg/L	<0.50	0.50	B388205
Total Silver (Ag)	mg/L	<0.00010	0.00010	B388292
Total Sodium (Na)	mg/L	<0.50	0.50	B388205
Total Strontium (Sr)	mg/L	<0.020	0.020	B388205
Total Sulphur (S)	mg/L	<0.20	0.20	B388205
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B388292
Total Tin (Sn)	mg/L	<0.0010	0.0010	B388292
Total Titanium (Ti)	mg/L	<0.0010	0.0010	B388292
Total Uranium (U)	mg/L	<0.00010	0.00010	B388292
Total Vanadium (V)	mg/L	<0.0010	0.0010	B388292
Total Zinc (Zn)	mg/L	<0.0030	0.0030	B388292

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C438691
Report Date: 2024/06/05

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI754			COI754			COI755		
Sampling Date		2024/05/28 10:55			2024/05/28 10:55			2024/05/28 09:40		
COC Number		C#723935-01-01			C#723935-01-01			C#723935-01-01		
	UNITS	SC-1	RDL	QC Batch	SC-1 Lab-Dup	RDL	QC Batch	SB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	33	0.50	B384806				170	0.50	B384806
Total Hardness (CaCO3)	mg/L	32.1	0.50	B384475				157	0.50	B384475
Misc. Inorganics										
pH	pH	6.72	N/A	B387638				6.24	N/A	B387638
Total Organic Carbon (C)	mg/L	11	0.50	B386282				6.9	0.50	B386281
Total Suspended Solids	mg/L	<0.99	0.99	B386365				2.4	1.0	B386365
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B386284				6.5	0.50	B386284
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B387637				<1.0	1.0	B387637
Alkalinity (Total as CaCO3)	mg/L	28	1.0	B387637				6.9	1.0	B387637
Bicarbonate (HCO3)	mg/L	35	1.0	B387637				8.5	1.0	B387637
Carbonate (CO3)	mg/L	<1.0	1.0	B387637				<1.0	1.0	B387637
Hydroxide (OH)	mg/L	<1.0	1.0	B387637				<1.0	1.0	B387637
Sulphate (SO4)	mg/L	6.1	1.0	B386008				190	5.0	B386008
Physical Properties										
Turbidity	NTU	1.1	0.10	B385724	1.2	0.10	B385724	23	0.10	B385724

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C438691
Report Date: 2024/06/05

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI756			COI757			COI758		
Sampling Date		2024/05/28 09:35			2024/05/28 09:45			2024/05/28 09:50		
COC Number		C#723935-01-01			C#723935-01-01			C#723935-01-01		
	UNITS	SB-2	RDL	QC Batch	CB-1	RDL	QC Batch	CB-2	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	160	0.50	B384806	200	0.50	B384806	210	0.50	B384806
Total Hardness (CaCO3)	mg/L	152	0.50	B384475	207	0.50	B384475	210	0.50	B384475
Misc. Inorganics										
pH	pH	6.19	N/A	B387638	5.88	N/A	B387638	5.69	N/A	B387635
Total Organic Carbon (C)	mg/L	7.5	0.50	B386282	5.8	0.50	B386281	5.9	0.50	B386282
Total Suspended Solids	mg/L	3.1	1.0	B386365	3.3	0.99	B386365	1.9	1.0	B386365
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	6.8	0.50	B386285	5.4	0.50	B386285	5.7	0.50	B386284
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B387637	<1.0	1.0	B387637	<1.0	1.0	B387634
Alkalinity (Total as CaCO3)	mg/L	8.3	1.0	B387637	2.7	1.0	B387637	1.9	1.0	B387634
Bicarbonate (HCO3)	mg/L	10	1.0	B387637	3.3	1.0	B387637	2.3	1.0	B387634
Carbonate (CO3)	mg/L	<1.0	1.0	B387637	<1.0	1.0	B387637	<1.0	1.0	B387634
Hydroxide (OH)	mg/L	<1.0	1.0	B387637	<1.0	1.0	B387637	<1.0	1.0	B387634
Sulphate (SO4)	mg/L	160	5.0	B386348	200	5.0	B386348	230	5.0	B386008
Physical Properties										
Turbidity	NTU	22	0.10	B385724	23	0.10	B385724	21	0.10	B385724

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C438691
Report Date: 2024/06/05

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI759			COI759			COI760		
Sampling Date		2024/05/28 09:55			2024/05/28 09:55			2024/05/28 10:05		
COC Number		C#723935-01-01			C#723935-01-01			C#723935-01-01		
	UNITS	EB-1	RDL	QC Batch	EB-1 Lab-Dup	RDL	QC Batch	EB-2	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	230	0.50	B384806				240	0.50	B384806
Total Hardness (CaCO3)	mg/L	245	0.50	B384475				231	0.50	B384475
Misc. Inorganics										
pH	pH	4.84	N/A	B387635				4.76	N/A	B387638
Total Organic Carbon (C)	mg/L	4.1	0.50	B386281				3.7	0.50	B386281
Total Suspended Solids	mg/L	<1.0	1.0	B386365				<1.0	1.0	B386365
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	4.1	0.50	B386285	4.1	0.50	B386285	3.7	0.50	B386285
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B387634				<1.0	1.0	B387637
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	B387634				<1.0	1.0	B387637
Bicarbonate (HCO3)	mg/L	<1.0	1.0	B387634				<1.0	1.0	B387637
Carbonate (CO3)	mg/L	<1.0	1.0	B387634				<1.0	1.0	B387637
Hydroxide (OH)	mg/L	<1.0	1.0	B387634				<1.0	1.0	B387637
Sulphate (SO4)	mg/L	240	5.0	B386348				250	5.0	B386348
Physical Properties										
Turbidity	NTU	4.4	0.10	B385724				2.7	0.10	B385724

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C438691
Report Date: 2024/06/05

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI760			COI761		COI762		
Sampling Date		2024/05/28 10:05			2024/05/28 10:15		2024/05/28 10:10		
COC Number		C#723935-01-01			C#723935-01-01		C#723935-01-01		
	UNITS	EB-2 Lab-Dup	RDL	QC Batch	NB-1	QC Batch	NB-2	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				230	B384806	240	0.50	B384806
Total Hardness (CaCO3)	mg/L				252	B384475	231	0.50	B384475
Misc. Inorganics									
pH	pH				4.95	B387638	5.08	N/A	B387638
Total Organic Carbon (C)	mg/L	3.8	0.50	B386281	4.8	B386281	4.8	0.50	B386281
Total Suspended Solids	mg/L				<1.0	B386365	<1.0	1.0	B386365
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L				4.6	B386285	4.6	0.50	B386284
Anions									
Alkalinity (PP as CaCO3)	mg/L				<1.0	B387637	<1.0	1.0	B387637
Alkalinity (Total as CaCO3)	mg/L				<1.0	B387637	<1.0	1.0	B387637
Bicarbonate (HCO3)	mg/L				<1.0	B387637	<1.0	1.0	B387637
Carbonate (CO3)	mg/L				<1.0	B387637	<1.0	1.0	B387637
Hydroxide (OH)	mg/L				<1.0	B387637	<1.0	1.0	B387637
Sulphate (SO4)	mg/L				250	B386348	250	5.0	B386286
Physical Properties									
Turbidity	NTU				8.3	B385724	11	0.10	B385724

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C438691
Report Date: 2024/06/05

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI763			COI764		COI765		
Sampling Date		2024/05/28 10:20			2024/05/28 08:50		2024/05/28 08:50		
COC Number		C#723935-01-01			C#723935-02-01		C#723935-02-01		
	UNITS	CLD	RDL	QC Batch	CL-3 SFC	QC Batch	CL-3 BTM	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	250	0.50	B384806	52	B384806	54	0.50	B384806
Total Hardness (CaCO3)	mg/L	227	0.50	B384475	47.2	B384475	51.6	0.50	B384475
Misc. Inorganics									
pH	pH	4.91	N/A	B387635	6.73	B387635	6.66	N/A	B387638
Total Organic Carbon (C)	mg/L	4.9	0.50	B386282	9.8	B386282	10	0.50	B386282
Total Suspended Solids	mg/L	<1.0	1.0	B386365	<1.0	B386365	1.2	1.0	B386365
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	4.7	0.50	B386285	9.6	B386284	9.7	0.50	B386284
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B387634	<1.0	B387634	<1.0	1.0	B387637
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	B387634	29	B387634	27	1.0	B387637
Bicarbonate (HCO3)	mg/L	<1.0	1.0	B387634	36	B387634	33	1.0	B387637
Carbonate (CO3)	mg/L	<1.0	1.0	B387634	<1.0	B387634	<1.0	1.0	B387637
Hydroxide (OH)	mg/L	<1.0	1.0	B387634	<1.0	B387634	<1.0	1.0	B387637
Sulphate (SO4)	mg/L	250	5.0	B386348	28	B386348	33	1.0	B386008
Physical Properties									
Turbidity	NTU	7.6	0.10	B385724	2.4	B385724	2.6	0.10	B385724

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C438691
Report Date: 2024/06/05

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI766			COI766			COI767		
Sampling Date		2024/05/28 08:55			2024/05/28 08:55			2024/05/28 08:55		
COC Number		C#723935-02-01			C#723935-02-01			C#723935-02-01		
	UNITS	CL-7 SFC	RDL	QC Batch	CL-7 SFC Lab-Dup	RDL	QC Batch	CL-7 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	51	0.50	B384806				50	0.50	B384806
Total Hardness (CaCO3)	mg/L	51.5	0.50	B384475				54.8	0.50	B384475
Misc. Inorganics										
pH	pH	6.68	N/A	B387638				6.65	N/A	B387638
Total Organic Carbon (C)	mg/L	10	0.50	B386281				10	0.50	B386281
Total Suspended Solids	mg/L	<1.0	1.0	B386507	1.9	1.0	B386507	2.6	1.0	B386507
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	8.9	0.50	B386285				9.5	0.50	B386285
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B387637				<1.0	1.0	B387637
Alkalinity (Total as CaCO3)	mg/L	26	1.0	B387637				27	1.0	B387637
Bicarbonate (HCO3)	mg/L	32	1.0	B387637				33	1.0	B387637
Carbonate (CO3)	mg/L	<1.0	1.0	B387637				<1.0	1.0	B387637
Hydroxide (OH)	mg/L	<1.0	1.0	B387637				<1.0	1.0	B387637
Sulphate (SO4)	mg/L	28	1.0	B386348				28	1.0	B386348
Physical Properties										
Turbidity	NTU	2.3	0.10	B385724				2.5	0.10	B385724

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI767			COI768		COI769		
Sampling Date		2024/05/28 08:55			2024/05/28 08:45		2024/05/28 08:45		
COC Number		C#723935-02-01			C#723935-02-01		C#723935-02-01		
	UNITS	CL-7 BTM Lab-Dup	RDL	QC Batch	CL-8 SFC	QC Batch	CL-8 BTM	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				52	B384806	53	0.50	B384806
Total Hardness (CaCO3)	mg/L				52.9	B384475	54.2	0.50	B384475
Misc. Inorganics									
pH	pH	6.64	N/A	B387638	6.91	B387635	6.71	N/A	B387638
Total Organic Carbon (C)	mg/L				9.9	B386281	9.6	0.50	B386281
Total Suspended Solids	mg/L				1.2	B386507	<1.0	1.0	B386507
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L				9.7	B386284	9.3	0.50	B386285
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B387637	<1.0	B387634	<1.0	1.0	B387637
Alkalinity (Total as CaCO3)	mg/L	27	1.0	B387637	28	B387634	26	1.0	B387637
Bicarbonate (HCO3)	mg/L	33	1.0	B387637	34	B387634	32	1.0	B387637
Carbonate (CO3)	mg/L	<1.0	1.0	B387637	<1.0	B387634	<1.0	1.0	B387637
Hydroxide (OH)	mg/L	<1.0	1.0	B387637	<1.0	B387634	<1.0	1.0	B387637
Sulphate (SO4)	mg/L				32	B386008	32	1.0	B386397
Physical Properties									
Turbidity	NTU				3.0	B385724	2.7	0.10	B385724

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI769			COI770		COI771		
Sampling Date		2024/05/28 08:45			2024/05/28 09:05		2024/05/28 09:05		
COC Number		C#723935-02-01			C#723935-02-01		C#723935-02-01		
	UNITS	CL-8 BTM Lab-Dup	RDL	QC Batch	CL-2 SFC	QC Batch	CL-2 BTM	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				49	B384806	48	0.50	B384806
Total Hardness (CaCO3)	mg/L				48.9	B384475	48.3	0.50	B384475
Misc. Inorganics									
pH	pH				6.74	B387638	6.66	N/A	B387638
Total Organic Carbon (C)	mg/L				11	B386282	10	0.50	B386282
Total Suspended Solids	mg/L				1.1	B386507	1.1	1.0	B386507
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L				9.4	B386284	9.8	0.50	B386285
Anions									
Alkalinity (PP as CaCO3)	mg/L				<1.0	B387637	<1.0	1.0	B387637
Alkalinity (Total as CaCO3)	mg/L				26	B387637	27	1.0	B387637
Bicarbonate (HCO3)	mg/L				32	B387637	33	1.0	B387637
Carbonate (CO3)	mg/L				<1.0	B387637	<1.0	1.0	B387637
Hydroxide (OH)	mg/L				<1.0	B387637	<1.0	1.0	B387637
Sulphate (SO4)	mg/L	33	1.0	B386397	23	B386348	24	1.0	B386348
Physical Properties									
Turbidity	NTU				2.9	B385724	2.8	0.10	B385724

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C438691
Report Date: 2024/06/05

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI772	COI773		COI774			COI774		
Sampling Date		2024/05/28 08:35	2024/05/28 08:35		2024/05/28 08:25			2024/05/28 08:25		
COC Number		C#723935-02-01	C#723935-02-01		C#723935-03-01			C#723935-03-01		
	UNITS	CL-4 SFC	CL-4 BTM	QC Batch	CL-5 SFC	RDL	QC Batch	CL-5 SFC Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	48	42	B384806	44	0.50	B384806			
Total Hardness (CaCO3)	mg/L	50.0	46.4	B384475	41.9	0.50	B384475			
Misc. Inorganics										
pH	pH	6.75	6.71	B387635	6.74	N/A	B387638			
Total Organic Carbon (C)	mg/L	10	10	B386281	10	0.50	B386282	11	0.50	B386282
Total Suspended Solids	mg/L	<1.0	1.6	B386507	2.1	1.0	B386507			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	9.7	9.8	B386284	10	0.50	B386285			
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	B387634	<1.0	1.0	B387637			
Alkalinity (Total as CaCO3)	mg/L	26	27	B387634	27	1.0	B387637			
Bicarbonate (HCO3)	mg/L	32	32	B387634	33	1.0	B387637			
Carbonate (CO3)	mg/L	<1.0	<1.0	B387634	<1.0	1.0	B387637			
Hydroxide (OH)	mg/L	<1.0	<1.0	B387634	<1.0	1.0	B387637			
Sulphate (SO4)	mg/L	26	19	B386008	19	1.0	B386348			
Physical Properties										
Turbidity	NTU	2.4	4.7	B385724	2.4	0.10	B385728	2.5	0.10	B385728

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C438691
Report Date: 2024/06/05

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI775			COI775			COI776		
Sampling Date		2024/05/28 08:25			2024/05/28 08:25			2024/05/28 08:15		
COC Number		C#723935-03-01			C#723935-03-01			C#723935-03-01		
	UNITS	CL-5 BTM	RDL	QC Batch	CL-5 BTM Lab-Dup	RDL	QC Batch	CL-6 SFC	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	44	0.50	B384806				40	0.50	B384806
Total Hardness (CaCO3)	mg/L	45.7	0.50	B384818				41.2	0.50	B384822
Misc. Inorganics										
pH	pH	6.71	N/A	B387638				6.73	N/A	B387638
Total Organic Carbon (C)	mg/L	10	0.50	B386281				11	0.50	B386281
Total Suspended Solids	mg/L	1.5	1.0	B386507				1.0	1.0	B386507
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10	0.50	B386284	11	0.50	B386284	11	0.50	B386285
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B387637				<1.0	1.0	B387637
Alkalinity (Total as CaCO3)	mg/L	28	1.0	B387637				28	1.0	B387637
Bicarbonate (HCO3)	mg/L	34	1.0	B387637				34	1.0	B387637
Carbonate (CO3)	mg/L	<1.0	1.0	B387637				<1.0	1.0	B387637
Hydroxide (OH)	mg/L	<1.0	1.0	B387637				<1.0	1.0	B387637
Sulphate (SO4)	mg/L	20	1.0	B386008				14	1.0	B386348
Physical Properties										
Turbidity	NTU	2.6	0.10	B385728				3.2	0.10	B385728

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI777		COI778		COI779		
Sampling Date		2024/05/28 08:20		2024/05/28		2024/05/28		
COC Number		C#723935-03-01		C#723935-03-01		C#723935-03-01		
	UNITS	**CL-6 BTM**	**QC Batch**	**SW-103**	**QC Batch**	**SW-104**	**RDL**	**QC Batch**
Calculated Parameters								
Hardness (CaCO3)	mg/L	40	B384806	47	B384806	53	0.50	B384813
Total Hardness (CaCO3)	mg/L	41.5	B384822	48.1	B384822	53.0	0.50	B384822
Misc. Inorganics								
pH	pH	6.76	B387638	6.71	B387638	6.70	N/A	B387635
Total Organic Carbon (C)	mg/L	10	B386282	10	B386281	9.7	0.50	B386282
Total Suspended Solids	mg/L	1.5	B386507	1.7	B386507	1.4	1.0	B386507
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	10	B386285	9.4	B386285	9.8	0.50	B386284
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B387637	<1.0	B387637	<1.0	1.0	B387634
Alkalinity (Total as CaCO3)	mg/L	27	B387637	27	B387637	26	1.0	B387634
Bicarbonate (HCO3)	mg/L	33	B387637	32	B387637	32	1.0	B387634
Carbonate (CO3)	mg/L	<1.0	B387637	<1.0	B387637	<1.0	1.0	B387634
Hydroxide (OH)	mg/L	<1.0	B387637	<1.0	B387637	<1.0	1.0	B387634
Sulphate (SO4)	mg/L	15	B386348	24	B386348	33	1.0	B386008
Physical Properties								
Turbidity	NTU	2.6	B385728	3.2	B385728	2.8	0.10	B385728

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		COI780		COI781			COI781		
Sampling Date		2024/05/28		2024/05/02			2024/05/02		
COC Number		C#723935-03-01		C#723935-03-01			C#723935-03-01		
	UNITS	SW-105	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	33	B384815	<0.50	0.50	B384815			
Total Hardness (CaCO3)	mg/L	33.6	B384822	<0.50	0.50	B384822			
Misc. Inorganics									
pH	pH	6.70	B387638	5.13	N/A	B387638			
Total Organic Carbon (C)	mg/L	11	B386281	<0.50	0.50	B386281			
Total Suspended Solids	mg/L	1.5	B386507	<1.0	1.0	B385499	<1.0	1.0	B385499
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	11	B386285	<0.50 (1)	0.50	B386285			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B387637	<1.0	1.0	B387637			
Alkalinity (Total as CaCO3)	mg/L	28	B387637	<1.0	1.0	B387637			
Bicarbonate (HCO3)	mg/L	34	B387637	<1.0	1.0	B387637			
Carbonate (CO3)	mg/L	<1.0	B387637	<1.0	1.0	B387637			
Hydroxide (OH)	mg/L	<1.0	B387637	<1.0	1.0	B387637			
Sulphate (SO4)	mg/L	5.4	B386348	<1.0	1.0	B386348			
Physical Properties									
Turbidity	NTU	3.0	B385728	<0.10	0.10	B387135			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.8°C
Package 2	4.9°C
Package 3	3.7°C
Package 4	2.9°C

Sample COI781 [TRIP BLANK] : Sample was analyzed past method specified hold time for Chloride/Sulphate by Auto Colourimetry. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised. Sample was analyzed past method specified hold time for Total Suspended Solids (NFR). Sample was analyzed past method specified hold time for Turbidity. Sample was analyzed past method specified hold time for Alkalinity @25C (pp, total), CO3,HCO3,OH. Sample was analyzed past method specified hold time for Carbon (DOC) -Lab Filtered. Sample was analyzed past method specified hold time for Carbon (Total Organic).

Sample COI765, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample COI778, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B385499	Total Suspended Solids	2024/06/03	NC	80 - 120	97	80 - 120	<1.0	mg/L	NC	20
B385724	Turbidity	2024/05/31			103	80 - 120	<0.10	NTU	6.8	20
B385728	Turbidity	2024/05/31			102	80 - 120	<0.10	NTU	6.5	20
B385963	Dissolved Barium (Ba)	2024/05/31	96	80 - 120	97	80 - 120	<0.010	mg/L	0.53	20
B385963	Dissolved Boron (B)	2024/05/31	98	80 - 120	95	80 - 120	<0.020	mg/L	15	20
B385963	Dissolved Calcium (Ca)	2024/05/31	94	80 - 120	94	80 - 120	<0.30	mg/L	1.3	20
B385963	Dissolved Iron (Fe)	2024/05/31	102	80 - 120	101	80 - 120	<0.060	mg/L	NC	20
B385963	Dissolved Lithium (Li)	2024/05/31	92	80 - 120	91	80 - 120	<0.020	mg/L	NC	20
B385963	Dissolved Magnesium (Mg)	2024/05/31	98	80 - 120	96	80 - 120	<0.20	mg/L	0.26	20
B385963	Dissolved Manganese (Mn)	2024/05/31	100	80 - 120	99	80 - 120	<0.0040	mg/L	NC	20
B385963	Dissolved Phosphorus (P)	2024/05/31	104	80 - 120	101	80 - 120	<0.10	mg/L	NC	20
B385963	Dissolved Potassium (K)	2024/05/31	97	80 - 120	97	80 - 120	<0.30	mg/L	2.3	20
B385963	Dissolved Silicon (Si)	2024/05/31	93	80 - 120	94	80 - 120	<0.50	mg/L	NC	20
B385963	Dissolved Sodium (Na)	2024/05/31	91	80 - 120	94	80 - 120	<0.50	mg/L	1.3	20
B385963	Dissolved Strontium (Sr)	2024/05/31	94	80 - 120	96	80 - 120	<0.020	mg/L	0.35	20
B385963	Dissolved Sulphur (S)	2024/05/31	98	80 - 120	97	80 - 120	<0.20	mg/L	2.3	20
B386008	Sulphate (SO4)	2024/05/31	113	80 - 120	108	80 - 120	<1.0	mg/L	1.3	20
B386083	Dissolved Aluminum (Al)	2024/05/31	NC	80 - 120	112	80 - 120	<0.0030	mg/L	0.68	20
B386083	Dissolved Antimony (Sb)	2024/05/31	98	80 - 120	99	80 - 120	<0.00060	mg/L	NC	20
B386083	Dissolved Arsenic (As)	2024/05/31	101	80 - 120	101	80 - 120	<0.00020	mg/L	5.4	20
B386083	Dissolved Beryllium (Be)	2024/05/31	92	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B386083	Dissolved Chromium (Cr)	2024/05/31	100	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B386083	Dissolved Cobalt (Co)	2024/05/31	98	80 - 120	99	80 - 120	<0.00030	mg/L	NC	20
B386083	Dissolved Copper (Cu)	2024/05/31	95	80 - 120	98	80 - 120	<0.0010	mg/L	3.2	20
B386083	Dissolved Lead (Pb)	2024/05/31	96	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B386083	Dissolved Molybdenum (Mo)	2024/05/31	101	80 - 120	101	80 - 120	<0.00020	mg/L	8.5	20
B386083	Dissolved Nickel (Ni)	2024/05/31	98	80 - 120	98	80 - 120	<0.00050	mg/L	16	20
B386083	Dissolved Selenium (Se)	2024/05/31	93	80 - 120	99	80 - 120	<0.00020	mg/L	0.49	20
B386083	Dissolved Silver (Ag)	2024/05/31	100	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B386083	Dissolved Thallium (Tl)	2024/05/31	94	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B386083	Dissolved Tin (Sn)	2024/05/31	100	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B386083	Dissolved Titanium (Ti)	2024/05/31	99	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B386083	Dissolved Uranium (U)	2024/05/31	97	80 - 120	96	80 - 120	<0.00010	mg/L	1.3	20
B386083	Dissolved Vanadium (V)	2024/05/31	101	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B386083	Dissolved Zinc (Zn)	2024/05/31	91	80 - 120	100	80 - 120	<0.0030	mg/L	1.6	20
B386281	Total Organic Carbon (C)	2024/06/03	108	80 - 120	107	80 - 120	<0.50	mg/L	2.4	20
B386282	Total Organic Carbon (C)	2024/06/03	NC	80 - 120	109	80 - 120	<0.50	mg/L	5.0	20
B386284	Dissolved Organic Carbon (C)	2024/06/03	NC	80 - 120	109	80 - 120	<0.50	mg/L	4.3	20
B386285	Dissolved Organic Carbon (C)	2024/06/03	106	80 - 120	104	80 - 120	<0.50	mg/L	0.26	20
B386286	Sulphate (SO4)	2024/05/31	108	80 - 120	105	80 - 120	<1.0	mg/L	NC	20
B386348	Sulphate (SO4)	2024/05/31	107	80 - 120	105	80 - 120	<1.0	mg/L	11	20
B386365	Total Suspended Solids	2024/06/04	NC	80 - 120	88	80 - 120	<1.0	mg/L	0	20
B386397	Sulphate (SO4)	2024/05/31	109	80 - 120	107	80 - 120	<1.0	mg/L	0.94	20
B386505	Dissolved Barium (Ba)	2024/05/31	100	80 - 120	98	80 - 120	<0.010	mg/L	6.2	20
B386505	Dissolved Boron (B)	2024/05/31	98	80 - 120	95	80 - 120	<0.020	mg/L	NC	20
B386505	Dissolved Calcium (Ca)	2024/05/31	97	80 - 120	96	80 - 120	<0.30	mg/L	1.2	20
B386505	Dissolved Iron (Fe)	2024/05/31	104	80 - 120	99	80 - 120	<0.060	mg/L	1.7	20
B386505	Dissolved Lithium (Li)	2024/05/31	96	80 - 120	92	80 - 120	<0.020	mg/L	NC	20
B386505	Dissolved Magnesium (Mg)	2024/05/31	104	80 - 120	98	80 - 120	<0.20	mg/L	2.1	20
B386505	Dissolved Manganese (Mn)	2024/05/31	102	80 - 120	98	80 - 120	<0.0040	mg/L	2.5	20
B386505	Dissolved Phosphorus (P)	2024/05/31	105	80 - 120	100	80 - 120	<0.10	mg/L	NC	20
B386505	Dissolved Potassium (K)	2024/05/31	101	80 - 120	98	80 - 120	<0.30	mg/L	2.3	20
B386505	Dissolved Silicon (Si)	2024/05/31	96	80 - 120	93	80 - 120	<0.50	mg/L	3.2	20
B386505	Dissolved Sodium (Na)	2024/05/31	98	80 - 120	95	80 - 120	<0.50	mg/L	1.2	20
B386505	Dissolved Strontium (Sr)	2024/05/31	98	80 - 120	96	80 - 120	<0.020	mg/L	1.5	20
B386505	Dissolved Sulphur (S)	2024/05/31	NC	80 - 120	96	80 - 120	<0.20	mg/L	0.096	20
B386506	Dissolved Barium (Ba)	2024/05/31	98	80 - 120	96	80 - 120	<0.010	mg/L		
B386506	Dissolved Boron (B)	2024/05/31	95	80 - 120	95	80 - 120	<0.020	mg/L		
B386506	Dissolved Calcium (Ca)	2024/05/31	98	80 - 120	93	80 - 120	<0.30	mg/L	5.0	20
B386506	Dissolved Iron (Fe)	2024/05/31	100	80 - 120	99	80 - 120	<0.060	mg/L		
B386506	Dissolved Lithium (Li)	2024/05/31	93	80 - 120	90	80 - 120	<0.020	mg/L		
B386506	Dissolved Magnesium (Mg)	2024/05/31	99	80 - 120	94	80 - 120	<0.20	mg/L	6.9	20
B386506	Dissolved Manganese (Mn)	2024/05/31	99	80 - 120	96	80 - 120	<0.0040	mg/L		
B386506	Dissolved Phosphorus (P)	2024/05/31	104	80 - 120	99	80 - 120	<0.10	mg/L		

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B386506	Dissolved Potassium (K)	2024/05/31	99	80 - 120	96	80 - 120	<0.30	mg/L	1.8	20
B386506	Dissolved Silicon (Si)	2024/05/31	92	80 - 120	92	80 - 120	<0.50	mg/L		
B386506	Dissolved Sodium (Na)	2024/05/31	NC	80 - 120	93	80 - 120	<0.50	mg/L	0.68	20
B386506	Dissolved Strontium (Sr)	2024/05/31	96	80 - 120	95	80 - 120	<0.020	mg/L		
B386506	Dissolved Sulphur (S)	2024/05/31	NC	80 - 120	95	80 - 120	<0.20	mg/L		
B386507	Total Suspended Solids	2024/06/03	95	80 - 120	95	80 - 120	<1.0	mg/L	NC	20
B386726	Dissolved Aluminum (Al)	2024/05/31	NC	80 - 120	109	80 - 120	<0.0030	mg/L	2.4	20
B386726	Dissolved Antimony (Sb)	2024/05/31	99	80 - 120	100	80 - 120	<0.00060	mg/L	NC	20
B386726	Dissolved Arsenic (As)	2024/05/31	102	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B386726	Dissolved Beryllium (Be)	2024/05/31	93	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B386726	Dissolved Chromium (Cr)	2024/05/31	101	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B386726	Dissolved Cobalt (Co)	2024/05/31	100	80 - 120	102	80 - 120	<0.00030	mg/L	4.9	20
B386726	Dissolved Copper (Cu)	2024/05/31	92	80 - 120	102	80 - 120	<0.0010	mg/L	1.4	20
B386726	Dissolved Lead (Pb)	2024/05/31	97	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B386726	Dissolved Molybdenum (Mo)	2024/05/31	103	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B386726	Dissolved Nickel (Ni)	2024/05/31	104	80 - 120	103	80 - 120	<0.00050	mg/L	2.6	20
B386726	Dissolved Selenium (Se)	2024/05/31	99	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B386726	Dissolved Silver (Ag)	2024/05/31	100	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B386726	Dissolved Thallium (Tl)	2024/05/31	96	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B386726	Dissolved Tin (Sn)	2024/05/31	100	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B386726	Dissolved Titanium (Ti)	2024/05/31	98	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B386726	Dissolved Uranium (U)	2024/05/31	99	80 - 120	95	80 - 120	<0.00010	mg/L	NC	20
B386726	Dissolved Vanadium (V)	2024/05/31	103	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B386726	Dissolved Zinc (Zn)	2024/05/31	NC	80 - 120	97	80 - 120	<0.0030	mg/L	1.3	20
B387135	Turbidity	2024/06/01			102	80 - 120	<0.10	NTU	NC	20
B387634	Alkalinity (PP as CaCO3)	2024/06/02					<1.0	mg/L	NC	20
B387634	Alkalinity (Total as CaCO3)	2024/06/02			99	80 - 120	<1.0	mg/L	0.46	20
B387634	Bicarbonate (HCO3)	2024/06/02					<1.0	mg/L	0.46	20
B387634	Carbonate (CO3)	2024/06/02					<1.0	mg/L	NC	20
B387634	Hydroxide (OH)	2024/06/02					<1.0	mg/L	NC	20
B387635	pH	2024/06/02			99	97 - 103			0.43	N/A
B387637	Alkalinity (PP as CaCO3)	2024/06/02					<1.0	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B387637	Alkalinity (Total as CaCO3)	2024/06/02			98	80 - 120	<1.0	mg/L	0.65	20
B387637	Bicarbonate (HCO3)	2024/06/02					<1.0	mg/L	0.65	20
B387637	Carbonate (CO3)	2024/06/02					<1.0	mg/L	NC	20
B387637	Hydroxide (OH)	2024/06/02					<1.0	mg/L	NC	20
B387638	pH	2024/06/02			100	97 - 103			0.29	N/A
B388205	Total Barium (Ba)	2024/06/03	104	80 - 120	106	80 - 120	<0.010	mg/L	NC	20
B388205	Total Boron (B)	2024/06/03	100	80 - 120	101	80 - 120	<0.020	mg/L	NC	20
B388205	Total Calcium (Ca)	2024/06/03	100	80 - 120	103	80 - 120	<0.30	mg/L	NC	20
B388205	Total Iron (Fe)	2024/06/03	105	80 - 120	107	80 - 120	<0.060	mg/L	NC	20
B388205	Total Lithium (Li)	2024/06/03	97	80 - 120	99	80 - 120	<0.020	mg/L	NC	20
B388205	Total Magnesium (Mg)	2024/06/03	103	80 - 120	107	80 - 120	<0.20	mg/L	NC	20
B388205	Total Manganese (Mn)	2024/06/03	104	80 - 120	106	80 - 120	<0.0040	mg/L	NC	20
B388205	Total Phosphorus (P)	2024/06/03	102	80 - 120	104	80 - 120	<0.10	mg/L	NC	20
B388205	Total Potassium (K)	2024/06/03	101	80 - 120	104	80 - 120	<0.30	mg/L	NC	20
B388205	Total Silicon (Si)	2024/06/03	100	80 - 120	102	80 - 120	<0.50	mg/L	NC	20
B388205	Total Sodium (Na)	2024/06/03	99	80 - 120	102	80 - 120	<0.50	mg/L	NC	20
B388205	Total Strontium (Sr)	2024/06/03	99	80 - 120	101	80 - 120	<0.020	mg/L	NC	20
B388205	Total Sulphur (S)	2024/06/03	99	80 - 120	101	80 - 120	<0.20	mg/L	NC	20
B388292	Total Aluminum (Al)	2024/06/03	108	80 - 120	106	80 - 120	<0.0030	mg/L	NC	20
B388292	Total Antimony (Sb)	2024/06/03	101	80 - 120	99	80 - 120	<0.00060	mg/L	NC	20
B388292	Total Arsenic (As)	2024/06/03	97	80 - 120	96	80 - 120	<0.00020	mg/L	4.5	20
B388292	Total Beryllium (Be)	2024/06/03	97	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B388292	Total Chromium (Cr)	2024/06/03	94	80 - 120	91	80 - 120	<0.0010	mg/L	NC	20
B388292	Total Cobalt (Co)	2024/06/03	94	80 - 120	92	80 - 120	<0.00030	mg/L	NC	20
B388292	Total Copper (Cu)	2024/06/03	90	80 - 120	88	80 - 120	<0.0010	mg/L	NC	20
B388292	Total Lead (Pb)	2024/06/03	99	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B388292	Total Molybdenum (Mo)	2024/06/03	102	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B388292	Total Nickel (Ni)	2024/06/03	92	80 - 120	90	80 - 120	<0.00050	mg/L	NC	20
B388292	Total Selenium (Se)	2024/06/03	93	80 - 120	91	80 - 120	<0.00020	mg/L	NC	20
B388292	Total Silver (Ag)	2024/06/03	103	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B388292	Total Thallium (Tl)	2024/06/03	98	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B388292	Total Tin (Sn)	2024/06/03	106	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B388292	Total Titanium (Ti)	2024/06/03	95	80 - 120	91	80 - 120	<0.0010	mg/L	NC	20
B388292	Total Uranium (U)	2024/06/03	103	80 - 120	96	80 - 120	<0.00010	mg/L	NC	20
B388292	Total Vanadium (V)	2024/06/03	97	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B388292	Total Zinc (Zn)	2024/06/03	92	80 - 120	91	80 - 120	<0.0030	mg/L	NC	20
B388713	Total Barium (Ba)	2024/06/03	93	80 - 120	89	80 - 120	<0.010	mg/L	4.9	20
B388713	Total Boron (B)	2024/06/03	95	80 - 120	92	80 - 120	<0.020	mg/L	NC	20
B388713	Total Calcium (Ca)	2024/06/03	98	80 - 120	93	80 - 120	<0.30	mg/L	4.0	20
B388713	Total Iron (Fe)	2024/06/03	98	80 - 120	93	80 - 120	<0.060	mg/L	1.9	20
B388713	Total Lithium (Li)	2024/06/03	98	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B388713	Total Magnesium (Mg)	2024/06/03	96	80 - 120	93	80 - 120	<0.20	mg/L	3.5	20
B388713	Total Manganese (Mn)	2024/06/03	100	80 - 120	98	80 - 120	<0.0040	mg/L	1.5	20
B388713	Total Phosphorus (P)	2024/06/03	95	80 - 120	93	80 - 120	<0.10	mg/L	NC	20
B388713	Total Potassium (K)	2024/06/03	98	80 - 120	94	80 - 120	<0.30	mg/L	2.8	20
B388713	Total Silicon (Si)	2024/06/03	95	80 - 120	93	80 - 120	<0.50	mg/L	3.2	20
B388713	Total Sodium (Na)	2024/06/03	99	80 - 120	95	80 - 120	<0.50	mg/L	4.1	20
B388713	Total Strontium (Sr)	2024/06/03	93	80 - 120	90	80 - 120	<0.020	mg/L	4.2	20
B388713	Total Sulphur (S)	2024/06/03	94	80 - 120	91	80 - 120	<0.20	mg/L	3.7	20
B388728	Total Aluminum (Al)	2024/06/03	104	80 - 120	104	80 - 120	<0.0030	mg/L	0.92	20
B388728	Total Antimony (Sb)	2024/06/03	99	80 - 120	103	80 - 120	<0.00060	mg/L	NC	20
B388728	Total Arsenic (As)	2024/06/03	95	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B388728	Total Beryllium (Be)	2024/06/03	96	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B388728	Total Chromium (Cr)	2024/06/03	89	80 - 120	90	80 - 120	<0.0010	mg/L	NC	20
B388728	Total Cobalt (Co)	2024/06/03	89	80 - 120	92	80 - 120	<0.00030	mg/L	4.2	20
B388728	Total Copper (Cu)	2024/06/03	85	80 - 120	88	80 - 120	<0.0010	mg/L	3.7	20
B388728	Total Lead (Pb)	2024/06/03	91	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B388728	Total Molybdenum (Mo)	2024/06/03	98	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B388728	Total Nickel (Ni)	2024/06/03	87	80 - 120	90	80 - 120	<0.00050	mg/L	6.4	20
B388728	Total Selenium (Se)	2024/06/03	91	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B388728	Total Silver (Ag)	2024/06/03	96	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B388728	Total Thallium (Tl)	2024/06/03	91	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B388728	Total Tin (Sn)	2024/06/03	102	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20
B388728	Total Titanium (Ti)	2024/06/03	92	80 - 120	91	80 - 120	<0.0010	mg/L	20	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B388728	Total Uranium (U)	2024/06/03	96	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B388728	Total Vanadium (V)	2024/06/03	93	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B388728	Total Zinc (Zn)	2024/06/03	89	80 - 120	93	80 - 120	<0.0030	mg/L	4.4	20
B388752	Total Aluminum (Al)	2024/06/03	106	80 - 120	109	80 - 120	<0.0030	mg/L	1.8	20
B388752	Total Antimony (Sb)	2024/06/03	109	80 - 120	111	80 - 120	<0.00060	mg/L	2.4	20
B388752	Total Arsenic (As)	2024/06/03	101	80 - 120	106	80 - 120	<0.00020	mg/L	0.64	20
B388752	Total Beryllium (Be)	2024/06/03	100	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B388752	Total Chromium (Cr)	2024/06/03	93	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B388752	Total Cobalt (Co)	2024/06/03	92	80 - 120	97	80 - 120	<0.00030	mg/L	NC	20
B388752	Total Copper (Cu)	2024/06/03	87	80 - 120	94	80 - 120	<0.0010	mg/L	0.68	20
B388752	Total Lead (Pb)	2024/06/03	97	80 - 120	100	80 - 120	<0.00020	mg/L	9.8	20
B388752	Total Molybdenum (Mo)	2024/06/03	108	80 - 120	105	80 - 120	<0.00020	mg/L	1.6	20
B388752	Total Nickel (Ni)	2024/06/03	90	80 - 120	95	80 - 120	<0.00050	mg/L	3.3	20
B388752	Total Selenium (Se)	2024/06/03	96	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B388752	Total Silver (Ag)	2024/06/03	101	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20
B388752	Total Thallium (Tl)	2024/06/03	96	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B388752	Total Tin (Sn)	2024/06/03	115	80 - 120	111	80 - 120	<0.0010	mg/L	NC	20
B388752	Total Titanium (Ti)	2024/06/03	97	80 - 120	99	80 - 120	<0.0010	mg/L	11	20
B388752	Total Uranium (U)	2024/06/03	102	80 - 120	104	80 - 120	<0.00010	mg/L	1.1	20
B388752	Total Vanadium (V)	2024/06/03	98	80 - 120	101	80 - 120	<0.0010	mg/L	2.1	20
B388752	Total Zinc (Zn)	2024/06/03	92	80 - 120	99	80 - 120	<0.0030	mg/L	NC	20
B388756	Total Barium (Ba)	2024/06/03	98	80 - 120	97	80 - 120	<0.010	mg/L	0.16	20
B388756	Total Boron (B)	2024/06/03	97	80 - 120	96	80 - 120	<0.020	mg/L	1.4	20
B388756	Total Calcium (Ca)	2024/06/03	101	80 - 120	101	80 - 120	<0.30	mg/L	0.19	20
B388756	Total Iron (Fe)	2024/06/03	104	80 - 120	99	80 - 120	<0.060	mg/L	NC	20
B388756	Total Lithium (Li)	2024/06/03	102	80 - 120	102	80 - 120	<0.020	mg/L	0.27	20
B388756	Total Magnesium (Mg)	2024/06/03	100	80 - 120	101	80 - 120	<0.20	mg/L	0.21	20
B388756	Total Manganese (Mn)	2024/06/03	107	80 - 120	103	80 - 120	<0.0040	mg/L	2.1	20
B388756	Total Phosphorus (P)	2024/06/03	100	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B388756	Total Potassium (K)	2024/06/03	102	80 - 120	102	80 - 120	<0.30	mg/L	0.062	20
B388756	Total Silicon (Si)	2024/06/03	101	80 - 120	100	80 - 120	<0.50	mg/L	NC	20
B388756	Total Sodium (Na)	2024/06/03	103	80 - 120	102	80 - 120	<0.50	mg/L	0.029	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B388756	Total Strontium (Sr)	2024/06/03	98	80 - 120	98	80 - 120	<0.020	mg/L	0.45	20
B388756	Total Sulphur (S)	2024/06/03	99	80 - 120	98	80 - 120	<0.20	mg/L	0.21	20
B388895	Total Aluminum (Al)	2024/06/04	98	80 - 120	100	80 - 120	<0.0030	mg/L	NC	20
B388895	Total Antimony (Sb)	2024/06/04	96	80 - 120	99	80 - 120	<0.00060	mg/L	NC	20
B388895	Total Arsenic (As)	2024/06/04	100	80 - 120	104	80 - 120	<0.00020	mg/L	1.4	20
B388895	Total Beryllium (Be)	2024/06/04	98	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B388895	Total Chromium (Cr)	2024/06/04	100	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B388895	Total Cobalt (Co)	2024/06/04	100	80 - 120	102	80 - 120	<0.00030	mg/L	NC	20
B388895	Total Copper (Cu)	2024/06/04	100	80 - 120	104	80 - 120	<0.0010	mg/L	1.3	20
B388895	Total Lead (Pb)	2024/06/04	100	80 - 120	104	80 - 120	<0.00020	mg/L	2.5	20
B388895	Total Molybdenum (Mo)	2024/06/04	105	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B388895	Total Nickel (Ni)	2024/06/04	100	80 - 120	104	80 - 120	<0.00050	mg/L	NC	20
B388895	Total Selenium (Se)	2024/06/04	98	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B388895	Total Silver (Ag)	2024/06/04	103	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20
B388895	Total Thallium (Tl)	2024/06/04	99	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B388895	Total Tin (Sn)	2024/06/04	101	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B388895	Total Titanium (Ti)	2024/06/04	96	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B388895	Total Uranium (U)	2024/06/04	101	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20
B388895	Total Vanadium (V)	2024/06/04	101	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B388895	Total Zinc (Zn)	2024/06/04	98	80 - 120	101	80 - 120	<0.0030	mg/L	1.9	20
B388902	Total Barium (Ba)	2024/06/04	99	80 - 120	109	80 - 120	<0.010	mg/L	NC	20
B388902	Total Boron (B)	2024/06/04	100	80 - 120	98	80 - 120	<0.020	mg/L	0.41	20
B388902	Total Calcium (Ca)	2024/06/04	NC	80 - 120	102	80 - 120	<0.30	mg/L	NC	20
B388902	Total Iron (Fe)	2024/06/04	NC	80 - 120	112	80 - 120	<0.060	mg/L	NC	20
B388902	Total Lithium (Li)	2024/06/04	97	80 - 120	105	80 - 120	<0.020	mg/L	NC	20
B388902	Total Magnesium (Mg)	2024/06/04	84	80 - 120	104	80 - 120	<0.20	mg/L	NC	20
B388902	Total Manganese (Mn)	2024/06/04	111	80 - 120	111	80 - 120	<0.0040	mg/L	NC	20
B388902	Total Phosphorus (P)	2024/06/04	113	80 - 120	110	80 - 120	<0.10	mg/L	NC	20
B388902	Total Potassium (K)	2024/06/04	75 (1)	80 - 120	100	80 - 120	<0.30	mg/L	NC	20
B388902	Total Silicon (Si)	2024/06/04	108	80 - 120	106	80 - 120	<0.50	mg/L	NC	20
B388902	Total Sodium (Na)	2024/06/04	NC	80 - 120	102	80 - 120	<0.50	mg/L	0.62	20
B388902	Total Strontium (Sr)	2024/06/04	96	80 - 120	102	80 - 120	<0.020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B388902	Total Sulphur (S)	2024/06/04	109	80 - 120	105	80 - 120	<0.20	mg/L	0.038	20
B390155	Dissolved Lead (Pb)	2024/06/04	95	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B390155	Dissolved Tin (Sn)	2024/06/04	106	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B390155	Dissolved Zinc (Zn)	2024/06/04	98	80 - 120	101	80 - 120	<0.0030	mg/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name	KGS Group	Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			723935
Address	865 Waverly St., 3rd Floor Winnipeg MB R3T 5P4	Address	865 Waverley St. 3rd Floor Winnipeg MB R3T 5P4	Project #	21-1357-005	Chain Of Custody Record	Project Manager
Phone	(204) 896-1209 Fax:	Phone	(204) 896-1209 Fax:	Project Name		C#723935-01-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com; rdyck@kgsgroup.com	Site #	OAM - SHERRIDON MINE SITE		
				Sampled By	AR, AL		

Regulatory Criteria: MWQSOG

Special Instructions:

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Analysis Requested

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		SC-1	24/05/28	10:55	SW	N	N	x	x	x	x	x	x	x	x	x	x	4	Analyze turbidity + DOC
2		SB-1		9:40				x	x	x	x	x	x	x	x	x	x	4	ASAP to melt hold times.
3		SB-2		9:35				x	x	x	x	x	x	x	x	x	x	4	
4		CB-1		9:45				x	x	x	x	x	x	x	x	x	x	4	
5		CB-2		9:50				x	x	x	x	x	x	x	x	x	x	4	
6		EB-1		9:55				x	x	x	x	x	x	x	x	x	x	4	
7		EB-2		10:05				x	x	x	x	x	x	x	x	x	x	4	
8		NB-1		10:15				x	x	x	x	x	x	x	x	x	x	4	
9		NB-2		10:10				x	x	x	x	x	x	x	x	x	x	4	
10		CLD		10:20				x	x	x	x	x	x	x	x	x	x	4	

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

MCAL-2024-05-1[illegible]06

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Monia Ainsleigh Lorica	24/05/29	17:40	Brooklyn Hiebert	24/05/29	1145	0		ACTR	Yes / No
			Shaira Lora	2024/05/30	08:41				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

See ACM

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name	KGS Group	Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			723935
Address	865 Waverly St., 3rd Floor Winnipeg MB R3T 5P4	Address	865 Waverly Street 3rd Floor Winnipeg MB R3T 5P4	Project #	21-1357-005	Chain Of Custody Record	Project Manager
Phone	(204) 896-1209 Fax:	Phone	204-896-1209 Fax:	Project Name		C#723935-02-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com	Site #	OAM - SHERRIDON MINE SITE		
				Sampled By	AL/AL		

Regulatory Criteria: MWQSOG

Special Instructions

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Analysis Requested

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-3 SFC	24/05/28	08:50	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze turbidity + DOC ASAP
2		CL-3 BTM		08:50		N	N	X	X	X	X	X	X	X	X	X	X	4	to meet hold times
3		CL-7 SFC		08:55		N	N	X	X	X	X	X	X	X	X	X	X	4	
4		CL-7 BTM		08:55		N	N	X	X	X	X	X	X	X	X	X	X	4	
5		CL-8 SFC		08:45		N	N	X	X	X	X	X	X	X	X	X	X	4	
6		CL-8 BTM		08:45		N	N	X	X	X	X	X	X	X	X	X	X	4	
7		CL-2 SFC		09:05		N	N	X	X	X	X	X	X	X	X	X	X	4	
8		CL-2 BTM		09:05		N	N	X	X	X	X	X	X	X	X	X	X	4	
9		CL-4 SFC		09:35		N	N	X	X	X	X	X	X	X	X	X	X	4	
10		CL-4 BTM		09:35		N	N	X	X	X	X	X	X	X	X	X	X	4	

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ [ ]
Rush Confirmation Number _____ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Aftonia Ainsleigh Lorica	24/05/29	11:40	Brooklyn Hiebert	24/05/29	1145	0	[ ]	ACTR	[ ] Yes [ ] No
			Shaira Cura	2024/05/30	08:41				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

See ACTR

White: Bureau Veritas Yellow: Client

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name	KGS Group	Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			723935
Address	865 Waverly St., 3rd Floor	Address	865 Waverly St. 3rd Floor	Project #	21-1357-005		
	Winnipeg MB R3T 5P4		Winnipeg MB R3T 5P4	Project Name		Chain Of Custody Record	Project Manager
Phone	(204) 896-1209 Fax:	Phone	204-896-1209 Fax:	Site #	OAM - SHERRIDON MINE SITE	C#723935-03-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com Rdycke@kgsgroup.com	Sampled By	ARIAL		

Regulatory Criteria: MWQSOG

Special Instructions:

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-5 SFC	24/05/24	08:25	SW		N	X	X	X	X	X	X	X	X	X	X	4	Analyze turbidity + DOC ASAP
2		CL-5 BTM		09:25			N	X	X	X	X	X	X	X	X	X	X	4	to meet hold times.
3		CL-6 SFC		09:15			N	X	X	X	X	X	X	X	X	X	X	4	
4		CL-6 BTM		08:20			N	X	X	X	X	X	X	X	X	X	X	4	
5		SW-103		AM			N	X	X	X	X	X	X	X	X	X	X	4	
6		SW-104		AM			N	X	X	X	X	X	X	X	X	X	X	4	
7		SW-105		AM			N	X	X	X	X	X	X	X	X	X	X	4	
8		TRIP BLANK	Lab	Lab	W		N	X	X	X	X	X	X	X	X	X	X	4	
9																			
10																			

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Alexia Ainsleigh Loria	24/05/24	17:40	BH Brooklyn Hiebert	24/05/24	1145	Ø	☐	ACTR	☐ Yes ☐ No
			Shaira Cura	2024/05/30	08:41				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

See ACTR

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: C#721084-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/06/19
Report #: R3516238
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C443831
Received: 2024/06/13, 11:20

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	6	N/A	2024/06/19	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	6	N/A	2024/06/15		Auto Calc
Cadmium - low level CCME (Total) (1)	6	N/A	2024/06/18		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	6	N/A	2024/06/14	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	6	N/A	2024/06/18	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	6	N/A	2024/06/16		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	4	N/A	2024/06/17	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	2	N/A	2024/06/18	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	6	N/A	2024/06/15	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	6	2024/06/17	2024/06/17	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	6	N/A	2024/06/15	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	4	2024/06/17	2024/06/17	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	2	2024/06/17	2024/06/18	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	6	N/A	2024/06/19	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	3	N/A	2024/06/18	AB SOP-00087	MMCW 119 1996 m
Carbon (Total Organic) (1, 7)	3	N/A	2024/06/19	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	6	2024/06/17	2024/06/18	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	6	N/A	2024/06/14	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: C#721084-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/06/19
Report #: R3516238
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C443831
Received: 2024/06/13, 11:20

Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(7) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH776		CPH777		CPH778	CPH779		
Sampling Date		2024/06/11 17:10		2024/06/11 17:05		2024/06/11 17:00	2024/06/11 17:15		
COC Number		C#721084-01-01		C#721084-01-01		C#721084-01-01	C#721084-01-01		
	UNITS	**SC-2**	**QC Batch**	**SC-3**	**QC Batch**	**SC-4**	**SC-5**	**RDL**	**QC Batch**
Elements									
Dissolved Cadmium (Cd)	ug/L	0.89	B402601	0.97	B402601	<0.020	0.021	0.020	B402601
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.030	B403398	0.032	B403396	0.016	0.018	0.0030	B403398
Dissolved Antimony (Sb)	mg/L	<0.00060	B403398	<0.00060	B403396	<0.00060	<0.00060	0.00060	B403398
Dissolved Arsenic (As)	mg/L	0.00034	B403398	0.00028	B403396	0.00033	0.00038	0.00020	B403398
Dissolved Barium (Ba)	mg/L	<0.010	B403856	<0.010	B403856	<0.010	<0.010	0.010	B403856
Dissolved Beryllium (Be)	mg/L	<0.0010	B403398	<0.0010	B403396	<0.0010	<0.0010	0.0010	B403398
Dissolved Boron (B)	mg/L	<0.020	B403856	<0.020	B403856	<0.020	<0.020	0.020	B403856
Dissolved Calcium (Ca)	mg/L	8.2	B403856	8.3	B403856	7.6	8.4	0.30	B403856
Dissolved Chromium (Cr)	mg/L	<0.0010	B403398	<0.0010	B403396	<0.0010	<0.0010	0.0010	B403398
Dissolved Cobalt (Co)	mg/L	0.00031	B403398	0.00040	B403396	<0.00030	<0.00030	0.00030	B403398
Dissolved Copper (Cu)	mg/L	0.032	B403398	0.039	B403396	0.0030	0.0038	0.0010	B403398
Dissolved Iron (Fe)	mg/L	0.063	B403856	0.062	B403856	<0.060	0.071	0.060	B403856
Dissolved Lead (Pb)	mg/L	<0.00020	B403398	0.00021	B403396	<0.00020	<0.00020	0.00020	B403398
Dissolved Lithium (Li)	mg/L	<0.020	B403856	<0.020	B403856	<0.020	<0.020	0.020	B403856
Dissolved Magnesium (Mg)	mg/L	2.5	B403856	2.6	B403856	2.4	2.6	0.20	B403856
Dissolved Manganese (Mn)	mg/L	0.015	B403856	0.018	B403856	<0.0040	<0.0040	0.0040	B403856
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B403398	<0.00020	B403396	<0.00020	<0.00020	0.00020	B403398
Dissolved Nickel (Ni)	mg/L	0.00060	B403398	0.00067	B403396	<0.00050	0.00058	0.00050	B403398
Dissolved Phosphorus (P)	mg/L	<0.10	B403856	<0.10	B403856	<0.10	<0.10	0.10	B403856
Dissolved Potassium (K)	mg/L	1.3	B403856	1.3	B403856	1.3	1.4	0.30	B403856
Dissolved Selenium (Se)	mg/L	<0.00020	B403398	<0.00020	B403396	<0.00020	<0.00020	0.00020	B403398
Dissolved Silicon (Si)	mg/L	0.98	B403856	0.97	B403856	0.90	0.95	0.50	B403856
Dissolved Silver (Ag)	mg/L	<0.00010	B403398	<0.00010	B403396	<0.00010	<0.00010	0.00010	B403398
Dissolved Sodium (Na)	mg/L	1.6	B403856	1.6	B403856	1.6	1.6	0.50	B403856
Dissolved Strontium (Sr)	mg/L	<0.020	B403856	<0.020	B403856	<0.020	<0.020	0.020	B403856
Dissolved Sulphur (S)	mg/L	2.2	B403856	2.4	B403856	1.2	2.2	0.20	B403856
Dissolved Thallium (Tl)	mg/L	<0.00020	B403398	<0.00020	B403396	<0.00020	<0.00020	0.00020	B403398
Dissolved Tin (Sn)	mg/L	<0.0010	B403398	<0.0010	B403396	<0.0010	<0.0010	0.0010	B403398
Dissolved Titanium (Ti)	mg/L	<0.0010	B403398	<0.0010	B403396	<0.0010	<0.0010	0.0010	B403398
Dissolved Uranium (U)	mg/L	<0.00010	B403398	<0.00010	B403396	<0.00010	<0.00010	0.00010	B403398
Dissolved Vanadium (V)	mg/L	<0.0010	B403398	<0.0010	B403396	<0.0010	<0.0010	0.0010	B403398

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C443831
Report Date: 2024/06/19

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH776		CPH777		CPH778	CPH779		
Sampling Date		2024/06/11 17:10		2024/06/11 17:05		2024/06/11 17:00	2024/06/11 17:15		
COC Number		C#721084-01-01		C#721084-01-01		C#721084-01-01	C#721084-01-01		
	UNITS	SC-2	QC Batch	SC-3	QC Batch	SC-4	SC-5	RDL	QC Batch
Dissolved Zinc (Zn)	mg/L	0.30	B403398	0.33	B403396	0.0053	0.011	0.0030	B403398
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH780	CPH781			CPH781		
Sampling Date		2024/06/11 17:20	2024/06/11			2024/06/11		
COC Number		C#721084-01-01	C#721084-01-01			C#721084-01-01		
	UNITS	SC-6	SW-109	RDL	QC Batch	SW-109 Lab-Dup	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.040	0.039	0.020	B402601			
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.025	0.023	0.0030	B403398			
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B403398			
Dissolved Arsenic (As)	mg/L	0.00033	0.00037	0.00020	B403398			
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	0.010	B403856	<0.010	0.010	B403856
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B403398			
Dissolved Boron (B)	mg/L	<0.020	<0.020	0.020	B403856	<0.020	0.020	B403856
Dissolved Calcium (Ca)	mg/L	7.6	7.5	0.30	B403856	7.5	0.30	B403856
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B403398			
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	0.00030	B403398			
Dissolved Copper (Cu)	mg/L	0.011	0.011	0.0010	B403398			
Dissolved Iron (Fe)	mg/L	<0.060	<0.060	0.060	B403856	<0.060	0.060	B403856
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	0.00020	B403398			
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	0.020	B403856	<0.020	0.020	B403856
Dissolved Magnesium (Mg)	mg/L	2.4	2.4	0.20	B403856	2.4	0.20	B403856
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	0.0040	B403856	<0.0040	0.0040	B403856
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	0.00020	B403398			
Dissolved Nickel (Ni)	mg/L	<0.00050	<0.00050	0.00050	B403398			
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B403856	<0.10	0.10	B403856
Dissolved Potassium (K)	mg/L	1.3	1.3	0.30	B403856	1.2	0.30	B403856
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B403398			
Dissolved Silicon (Si)	mg/L	0.92	0.94	0.50	B403856	0.91	0.50	B403856
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B403398			
Dissolved Sodium (Na)	mg/L	1.5	1.5	0.50	B403856	1.5	0.50	B403856
Dissolved Strontium (Sr)	mg/L	<0.020	<0.020	0.020	B403856	<0.020	0.020	B403856
Dissolved Sulphur (S)	mg/L	1.2	1.2	0.20	B403856	1.2	0.20	B403856
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B403398			
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B403398			
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	0.0010	B403398			
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	B403398			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH780	CPH781			CPH781		
Sampling Date		2024/06/11 17:20	2024/06/11			2024/06/11		
COC Number		C#721084-01-01	C#721084-01-01			C#721084-01-01		
	UNITS	**SC-6**	**SW-109**	**RDL**	**QC Batch**	**SW-109 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B403398			
Dissolved Zinc (Zn)	mg/L	0.011	0.011	0.0030	B403398			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH776		CPH777	CPH778		CPH779		
Sampling Date		2024/06/11 17:10		2024/06/11 17:05	2024/06/11 17:00		2024/06/11 17:15		
COC Number		C#721084-01-01		C#721084-01-01	C#721084-01-01		C#721084-01-01		
	UNITS	SC-2	QC Batch	SC-3	SC-4	QC Batch	SC-5	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	1.0	B402608	1.3	0.032	B402608	0.031	0.020	B402608
Total Aluminum (Al)	mg/L	0.066	B405054	0.077	0.076	B405136	0.036	0.0030	B405054
Total Antimony (Sb)	mg/L	<0.00060	B405054	<0.00060	<0.00060	B405136	<0.00060	0.00060	B405054
Total Arsenic (As)	mg/L	0.00046	B405054	0.00044	0.00045	B405136	0.00048	0.00020	B405054
Total Barium (Ba)	mg/L	<0.010	B405070	<0.010	<0.010	B405142	<0.010	0.010	B405070
Total Beryllium (Be)	mg/L	<0.0010	B405054	<0.0010	<0.0010	B405136	<0.0010	0.0010	B405054
Total Boron (B)	mg/L	<0.020	B405070	<0.020	<0.020	B405142	<0.020	0.020	B405070
Total Calcium (Ca)	mg/L	9.2	B405070	8.6	7.8	B405142	9.3	0.30	B405070
Total Chromium (Cr)	mg/L	<0.0010	B405054	<0.0010	<0.0010	B405136	<0.0010	0.0010	B405054
Total Cobalt (Co)	mg/L	0.00040	B405054	0.00053	<0.00030	B405136	<0.00030	0.00030	B405054
Total Copper (Cu)	mg/L	0.040	B405054	0.052	0.0043	B405136	0.0049	0.0010	B405054
Total Iron (Fe)	mg/L	0.12	B405070	0.13	0.15	B405142	0.12	0.060	B405070
Total Lead (Pb)	mg/L	<0.00020	B405054	<0.00020	<0.00020	B405136	<0.00020	0.00020	B405054
Total Lithium (Li)	mg/L	<0.020	B405070	<0.020	<0.020	B405142	<0.020	0.020	B405070
Total Magnesium (Mg)	mg/L	2.8	B405070	2.6	2.5	B405142	2.9	0.20	B405070
Total Manganese (Mn)	mg/L	0.019	B405070	0.024	0.0098	B405142	0.0091	0.0040	B405070
Total Molybdenum (Mo)	mg/L	<0.00020	B405054	0.00023	0.0021	B405136	<0.00020	0.00020	B405054
Total Nickel (Ni)	mg/L	0.00063	B405054	0.00075	0.00055	B405136	0.00051	0.00050	B405054
Total Phosphorus (P)	mg/L	<0.10	B405070	<0.10	<0.10	B405142	<0.10	0.10	B405070
Total Potassium (K)	mg/L	1.4	B405070	1.3	1.1	B405142	1.4	0.30	B405070
Total Selenium (Se)	mg/L	<0.00020	B405054	<0.00020	<0.00020	B405136	<0.00020	0.00020	B405054
Total Silicon (Si)	mg/L	1.0	B405070	1.2	1.1	B405142	1.2	0.50	B405070
Total Silver (Ag)	mg/L	<0.00010	B405054	<0.00010	<0.00010	B405136	<0.00010	0.00010	B405054
Total Sodium (Na)	mg/L	1.7	B405070	1.6	1.5	B405142	1.8	0.50	B405070
Total Strontium (Sr)	mg/L	0.024	B405070	0.023	0.021	B405142	0.024	0.020	B405070
Total Sulphur (S)	mg/L	2.1	B405070	2.6	1.3	B405142	2.3	0.20	B405070
Total Thallium (Tl)	mg/L	<0.00020	B405054	<0.00020	<0.00020	B405136	<0.00020	0.00020	B405054
Total Tin (Sn)	mg/L	<0.0010	B405054	<0.0010	<0.0010	B405136	<0.0010	0.0010	B405054
Total Titanium (Ti)	mg/L	0.0020	B405054	0.0015	0.0033	B405136	0.0011	0.0010	B405054
Total Uranium (U)	mg/L	<0.00010	B405054	<0.00010	<0.00010	B405136	<0.00010	0.00010	B405054
Total Vanadium (V)	mg/L	<0.0010	B405054	<0.0010	<0.0010	B405136	<0.0010	0.0010	B405054
Total Zinc (Zn)	mg/L	0.35	B405054	0.42	0.0095	B405136	0.013	0.0030	B405054

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH780	CPH781		
Sampling Date		2024/06/11 17:20	2024/06/11		
COC Number		C#721084-01-01	C#721084-01-01		
	UNITS	SC-6	SW-109	RDL	QC Batch
Elements					
Total Cadmium (Cd)	ug/L	0.047	0.050	0.020	B402608
Total Aluminum (Al)	mg/L	0.046	0.047	0.0030	B405054
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B405054
Total Arsenic (As)	mg/L	0.00036	0.00039	0.00020	B405054
Total Barium (Ba)	mg/L	<0.010	<0.010	0.010	B405070
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B405054
Total Boron (B)	mg/L	<0.020	<0.020	0.020	B405070
Total Calcium (Ca)	mg/L	8.3	8.2	0.30	B405070
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B405054
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	0.00030	B405054
Total Copper (Cu)	mg/L	0.013	0.013	0.0010	B405054
Total Iron (Fe)	mg/L	0.12	0.12	0.060	B405070
Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00020	B405054
Total Lithium (Li)	mg/L	<0.020	<0.020	0.020	B405070
Total Magnesium (Mg)	mg/L	2.7	2.6	0.20	B405070
Total Manganese (Mn)	mg/L	0.0084	0.0082	0.0040	B405070
Total Molybdenum (Mo)	mg/L	0.00029	0.0080	0.00020	B405054
Total Nickel (Ni)	mg/L	0.00067	<0.00050	0.00050	B405054
Total Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B405070
Total Potassium (K)	mg/L	1.3	1.2	0.30	B405070
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B405054
Total Silicon (Si)	mg/L	1.2	1.2	0.50	B405070
Total Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B405054
Total Sodium (Na)	mg/L	1.6	1.6	0.50	B405070
Total Strontium (Sr)	mg/L	0.022	0.022	0.020	B405070
Total Sulphur (S)	mg/L	1.4	1.4	0.20	B405070
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B405054
Total Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B405054
Total Titanium (Ti)	mg/L	0.0011	0.0013	0.0010	B405054
Total Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	B405054
Total Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B405054
Total Zinc (Zn)	mg/L	0.011	0.011	0.0030	B405054

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C443831
Report Date: 2024/06/19

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH776			CPH776			CPH777		
Sampling Date		2024/06/11 17:10			2024/06/11 17:10			2024/06/11 17:05		
COC Number		C#721084-01-01			C#721084-01-01			C#721084-01-01		
	UNITS	SC-2	RDL	QC Batch	SC-2 Lab-Dup	RDL	QC Batch	SC-3	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	31	0.50	B402634				31	0.50	B402634
Total Hardness (CaCO3)	mg/L	34.7	0.50	B402643				32.3	0.50	B402643
Misc. Inorganics										
pH	pH	6.64	N/A	B406901				6.64	N/A	B406901
Total Organic Carbon (C)	mg/L	10	0.50	B408270				11	0.50	B407081
Total Suspended Solids	mg/L	3.3	1.0	B404521				<1.0	1.0	B404521
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B406940	12	0.50	B406940	12	0.50	B406940
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B406898				<1.0	1.0	B406898
Alkalinity (Total as CaCO3)	mg/L	26	1.0	B406898				27	1.0	B406898
Bicarbonate (HCO3)	mg/L	32	1.0	B406898				33	1.0	B406898
Carbonate (CO3)	mg/L	<1.0	1.0	B406898				<1.0	1.0	B406898
Hydroxide (OH)	mg/L	<1.0	1.0	B406898				<1.0	1.0	B406898
Sulphate (SO4)	mg/L	7.6	1.0	B403384				7.9	1.0	B403384
Physical Properties										
Turbidity	NTU	1.2	0.10	B402709	1.1	0.10	B402709	1.8	0.10	B402709

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C443831
Report Date: 2024/06/19

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH778		CPH779			CPH779		
Sampling Date		2024/06/11 17:00		2024/06/11 17:15			2024/06/11 17:15		
COC Number		C#721084-01-01		C#721084-01-01			C#721084-01-01		
	UNITS	SC-4	QC Batch	SC-5	RDL	QC Batch	SC-5 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	29	B402634	32	0.50	B402634			
Total Hardness (CaCO3)	mg/L	29.6	B402643	35.1	0.50	B402643			
Misc. Inorganics									
pH	pH	6.69	B406901	6.71	N/A	B406901			
Total Organic Carbon (C)	mg/L	11	B408270	12	0.50	B407081			
Total Suspended Solids	mg/L	1.8	B404521	<1.0	1.0	B404521			
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	12	B406940	12	0.50	B406940			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B406898	<1.0	1.0	B406898			
Alkalinity (Total as CaCO3)	mg/L	27	B406898	27	1.0	B406898			
Bicarbonate (HCO3)	mg/L	33	B406898	33	1.0	B406898			
Carbonate (CO3)	mg/L	<1.0	B406898	<1.0	1.0	B406898			
Hydroxide (OH)	mg/L	<1.0	B406898	<1.0	1.0	B406898			
Sulphate (SO4)	mg/L	2.7	B403384	6.8	1.0	B403384	6.7	1.0	B403384
Physical Properties									
Turbidity	NTU	1.3	B402709	0.40	0.10	B402709			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C443831
Report Date: 2024/06/19

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH780			CPH781			CPH781		
Sampling Date		2024/06/11 17:20			2024/06/11			2024/06/11		
COC Number		C#721084-01-01			C#721084-01-01			C#721084-01-01		
	UNITS	SC-6	RDL	QC Batch	SW-109	RDL	QC Batch	SW-109 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	29	0.50	B402634	29	0.50	B402634			
Total Hardness (CaCO3)	mg/L	31.9	0.50	B402643	31.1	0.50	B402643			
Misc. Inorganics										
pH	pH	6.75	N/A	B406901	6.76	N/A	B406901			
Total Organic Carbon (C)	mg/L	11	0.50	B407081	11	0.50	B408270	11	0.50	B408270
Total Suspended Solids	mg/L	1.7	1.0	B404535	2.0	0.99	B404535			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	13	0.50	B406940	12	0.50	B406940			
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B406898	<1.0	1.0	B406898			
Alkalinity (Total as CaCO3)	mg/L	27	1.0	B406898	27	1.0	B406898			
Bicarbonate (HCO3)	mg/L	32	1.0	B406898	33	1.0	B406898			
Carbonate (CO3)	mg/L	<1.0	1.0	B406898	<1.0	1.0	B406898			
Hydroxide (OH)	mg/L	<1.0	1.0	B406898	<1.0	1.0	B406898			
Sulphate (SO4)	mg/L	2.8	1.0	B403384	2.9	1.0	B403384			
Physical Properties										
Turbidity	NTU	1.3	0.10	B402709	1.1	0.10	B402709			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	9.0°C

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B402709	Turbidity	2024/06/14			100	80 - 120	<0.10	NTU	6.1	20
B403384	Sulphate (SO4)	2024/06/14	117	80 - 120	103	80 - 120	<1.0	mg/L	1.2	20
B403396	Dissolved Aluminum (Al)	2024/06/15	95	80 - 120	104	80 - 120	<0.0030	mg/L	9.0	20
B403396	Dissolved Antimony (Sb)	2024/06/15	96	80 - 120	96	80 - 120	<0.00060	mg/L	NC	20
B403396	Dissolved Arsenic (As)	2024/06/15	100	80 - 120	101	80 - 120	<0.00020	mg/L	1.1	20
B403396	Dissolved Beryllium (Be)	2024/06/15	96	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B403396	Dissolved Chromium (Cr)	2024/06/15	97	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B403396	Dissolved Cobalt (Co)	2024/06/15	98	80 - 120	99	80 - 120	<0.00030	mg/L	4.6	20
B403396	Dissolved Copper (Cu)	2024/06/15	96	80 - 120	101	80 - 120	<0.0010	mg/L	4.0	20
B403396	Dissolved Lead (Pb)	2024/06/15	99	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B403396	Dissolved Molybdenum (Mo)	2024/06/15	100	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B403396	Dissolved Nickel (Ni)	2024/06/15	99	80 - 120	101	80 - 120	<0.00050	mg/L	6.1	20
B403396	Dissolved Selenium (Se)	2024/06/15	96	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B403396	Dissolved Silver (Ag)	2024/06/15	97	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B403396	Dissolved Thallium (Tl)	2024/06/15	98	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B403396	Dissolved Tin (Sn)	2024/06/15	97	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B403396	Dissolved Titanium (Ti)	2024/06/15	95	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B403396	Dissolved Uranium (U)	2024/06/15	98	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B403396	Dissolved Vanadium (V)	2024/06/15	97	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B403396	Dissolved Zinc (Zn)	2024/06/15	NC	80 - 120	99	80 - 120	<0.0030	mg/L	2.5	20
B403398	Dissolved Aluminum (Al)	2024/06/15	91	80 - 120	102	80 - 120	<0.0030	mg/L	0.32	20
B403398	Dissolved Antimony (Sb)	2024/06/15	93	80 - 120	98	80 - 120	<0.00060	mg/L	NC	20
B403398	Dissolved Arsenic (As)	2024/06/15	102	80 - 120	103	80 - 120	<0.00020	mg/L	6.9	20
B403398	Dissolved Beryllium (Be)	2024/06/15	91	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B403398	Dissolved Chromium (Cr)	2024/06/15	96	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B403398	Dissolved Cobalt (Co)	2024/06/15	97	80 - 120	101	80 - 120	<0.00030	mg/L	2.9	20
B403398	Dissolved Copper (Cu)	2024/06/15	96	80 - 120	102	80 - 120	<0.0010	mg/L	3.8	20
B403398	Dissolved Lead (Pb)	2024/06/15	95	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B403398	Dissolved Molybdenum (Mo)	2024/06/15	98	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B403398	Dissolved Nickel (Ni)	2024/06/15	98	80 - 120	101	80 - 120	<0.00050	mg/L	5.2	20
B403398	Dissolved Selenium (Se)	2024/06/15	101	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B403398	Dissolved Silver (Ag)	2024/06/15	94	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B403398	Dissolved Thallium (Tl)	2024/06/15	95	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B403398	Dissolved Tin (Sn)	2024/06/15	94	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B403398	Dissolved Titanium (Ti)	2024/06/15	94	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B403398	Dissolved Uranium (U)	2024/06/15	97	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20
B403398	Dissolved Vanadium (V)	2024/06/15	98	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B403398	Dissolved Zinc (Zn)	2024/06/15	NC	80 - 120	101	80 - 120	<0.0030	mg/L	3.4	20
B403856	Dissolved Barium (Ba)	2024/06/15	101	80 - 120	100	80 - 120	<0.010	mg/L	NC	20
B403856	Dissolved Boron (B)	2024/06/15	102	80 - 120	101	80 - 120	<0.020	mg/L	NC	20
B403856	Dissolved Calcium (Ca)	2024/06/15	98	80 - 120	96	80 - 120	<0.30	mg/L	0.053	20
B403856	Dissolved Iron (Fe)	2024/06/15	102	80 - 120	103	80 - 120	<0.060	mg/L	NC	20
B403856	Dissolved Lithium (Li)	2024/06/15	97	80 - 120	95	80 - 120	<0.020	mg/L	NC	20
B403856	Dissolved Magnesium (Mg)	2024/06/15	99	80 - 120	98	80 - 120	<0.20	mg/L	0.021	20
B403856	Dissolved Manganese (Mn)	2024/06/15	102	80 - 120	102	80 - 120	<0.0040	mg/L	NC	20
B403856	Dissolved Phosphorus (P)	2024/06/15	101	80 - 120	101	80 - 120	<0.10	mg/L	NC	20
B403856	Dissolved Potassium (K)	2024/06/15	97	80 - 120	96	80 - 120	<0.30	mg/L	1.7	20
B403856	Dissolved Silicon (Si)	2024/06/15	94	80 - 120	96	80 - 120	<0.50	mg/L	2.5	20
B403856	Dissolved Sodium (Na)	2024/06/15	98	80 - 120	97	80 - 120	<0.50	mg/L	0.49	20
B403856	Dissolved Strontium (Sr)	2024/06/15	98	80 - 120	98	80 - 120	<0.020	mg/L	NC	20
B403856	Dissolved Sulphur (S)	2024/06/15	105	80 - 120	95	80 - 120	<0.20	mg/L	3.4	20
B404521	Total Suspended Solids	2024/06/18	102	80 - 120	96	80 - 120	<1.0	mg/L	NC	20
B404535	Total Suspended Solids	2024/06/18	100	80 - 120	91	80 - 120	<0.96	mg/L	NC	20
B405054	Total Aluminum (Al)	2024/06/17	99	80 - 120	100	80 - 120	<0.0030	mg/L	18	20
B405054	Total Antimony (Sb)	2024/06/17	99	80 - 120	100	80 - 120	<0.00060	mg/L	NC	20
B405054	Total Arsenic (As)	2024/06/17	106	80 - 120	111	80 - 120	<0.00020	mg/L	13	20
B405054	Total Beryllium (Be)	2024/06/17	98	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B405054	Total Chromium (Cr)	2024/06/17	102	80 - 120	107	80 - 120	<0.0010	mg/L	NC	20
B405054	Total Cobalt (Co)	2024/06/17	100	80 - 120	106	80 - 120	<0.00030	mg/L	NC	20
B405054	Total Copper (Cu)	2024/06/17	101	80 - 120	107	80 - 120	<0.0010	mg/L	17	20
B405054	Total Lead (Pb)	2024/06/17	98	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B405054	Total Molybdenum (Mo)	2024/06/17	100	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B405054	Total Nickel (Ni)	2024/06/17	101	80 - 120	107	80 - 120	<0.00050	mg/L	18	20
B405054	Total Selenium (Se)	2024/06/17	97	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B405054	Total Silver (Ag)	2024/06/17	100	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20
B405054	Total Thallium (Tl)	2024/06/17	100	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B405054	Total Tin (Sn)	2024/06/17	99	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B405054	Total Titanium (Ti)	2024/06/17	102	80 - 120	107	80 - 120	<0.0010	mg/L	18	20
B405054	Total Uranium (U)	2024/06/17	101	80 - 120	105	80 - 120	<0.00010	mg/L	NC	20
B405054	Total Vanadium (V)	2024/06/17	104	80 - 120	109	80 - 120	<0.0010	mg/L	NC	20
B405054	Total Zinc (Zn)	2024/06/17	NC	80 - 120	108	80 - 120	<0.0030	mg/L	18	20
B405070	Total Barium (Ba)	2024/06/17	101	80 - 120	103	80 - 120	<0.010	mg/L	NC	20
B405070	Total Boron (B)	2024/06/17	97	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B405070	Total Calcium (Ca)	2024/06/17	94	80 - 120	98	80 - 120	<0.30	mg/L	1.6	20
B405070	Total Iron (Fe)	2024/06/17	101	80 - 120	104	80 - 120	<0.060	mg/L	3.6	20
B405070	Total Lithium (Li)	2024/06/17	98	80 - 120	101	80 - 120	<0.020	mg/L	NC	20
B405070	Total Magnesium (Mg)	2024/06/17	93	80 - 120	97	80 - 120	<0.20	mg/L	0.87	20
B405070	Total Manganese (Mn)	2024/06/17	103	80 - 120	104	80 - 120	<0.0040	mg/L	0	20
B405070	Total Phosphorus (P)	2024/06/17	97	80 - 120	96	80 - 120	<0.10	mg/L	NC	20
B405070	Total Potassium (K)	2024/06/17	96	80 - 120	98	80 - 120	<0.30	mg/L	0.0065	20
B405070	Total Silicon (Si)	2024/06/17	95	80 - 120	95	80 - 120	<0.50	mg/L	0.44	20
B405070	Total Sodium (Na)	2024/06/17	97	80 - 120	99	80 - 120	<0.50	mg/L	2.5	20
B405070	Total Strontium (Sr)	2024/06/17	98	80 - 120	102	80 - 120	<0.020	mg/L	0.34	20
B405070	Total Sulphur (S)	2024/06/17	95	80 - 120	95	80 - 120	<0.20	mg/L	1.0	20
B405136	Total Aluminum (Al)	2024/06/18	NC	80 - 120	110	80 - 120	<0.0030	mg/L	0.34	20
B405136	Total Antimony (Sb)	2024/06/18	97	80 - 120	96	80 - 120	<0.00060	mg/L		
B405136	Total Arsenic (As)	2024/06/18	100	80 - 120	100	80 - 120	<0.00020	mg/L	2.3	20
B405136	Total Beryllium (Be)	2024/06/18	108	80 - 120	104	80 - 120	<0.0010	mg/L		
B405136	Total Chromium (Cr)	2024/06/18	98	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B405136	Total Cobalt (Co)	2024/06/18	95	80 - 120	99	80 - 120	<0.00030	mg/L		
B405136	Total Copper (Cu)	2024/06/18	93	80 - 120	98	80 - 120	<0.0010	mg/L	13	20
B405136	Total Lead (Pb)	2024/06/18	97	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B405136	Total Molybdenum (Mo)	2024/06/18	107	80 - 120	99	80 - 120	<0.00020	mg/L	74 (1)	20
B405136	Total Nickel (Ni)	2024/06/18	95	80 - 120	98	80 - 120	<0.00050	mg/L	19	20
B405136	Total Selenium (Se)	2024/06/18	95	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B405136	Total Silver (Ag)	2024/06/18	100	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B405136	Total Thallium (Tl)	2024/06/18	103	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B405136	Total Tin (Sn)	2024/06/18	103	80 - 120	97	80 - 120	<0.0010	mg/L		
B405136	Total Titanium (Ti)	2024/06/18	103	80 - 120	95	80 - 120	<0.0010	mg/L		
B405136	Total Uranium (U)	2024/06/18	103	80 - 120	102	80 - 120	<0.00010	mg/L	12	20
B405136	Total Vanadium (V)	2024/06/18	102	80 - 120	100	80 - 120	<0.0010	mg/L		
B405136	Total Zinc (Zn)	2024/06/18	93	80 - 120	96	80 - 120	<0.0030	mg/L	11	20
B405142	Total Barium (Ba)	2024/06/17	106	80 - 120	106	80 - 120	<0.010	mg/L		
B405142	Total Boron (B)	2024/06/17	101	80 - 120	102	80 - 120	<0.020	mg/L	8.6	20
B405142	Total Calcium (Ca)	2024/06/17	NC	80 - 120	99	80 - 120	<0.30	mg/L		
B405142	Total Iron (Fe)	2024/06/17	NC	80 - 120	103	80 - 120	<0.060	mg/L	NC	20
B405142	Total Lithium (Li)	2024/06/17	101	80 - 120	101	80 - 120	<0.020	mg/L		
B405142	Total Magnesium (Mg)	2024/06/17	NC	80 - 120	98	80 - 120	<0.20	mg/L		
B405142	Total Manganese (Mn)	2024/06/17	NC	80 - 120	105	80 - 120	<0.0040	mg/L		
B405142	Total Phosphorus (P)	2024/06/17	104	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B405142	Total Potassium (K)	2024/06/17	NC	80 - 120	98	80 - 120	<0.30	mg/L		
B405142	Total Silicon (Si)	2024/06/17	NC	80 - 120	98	80 - 120	<0.50	mg/L		
B405142	Total Sodium (Na)	2024/06/17	101	80 - 120	99	80 - 120	<0.50	mg/L		
B405142	Total Strontium (Sr)	2024/06/17	103	80 - 120	103	80 - 120	<0.020	mg/L		
B405142	Total Sulphur (S)	2024/06/17	NC	80 - 120	99	80 - 120	<0.20	mg/L		
B406898	Alkalinity (PP as CaCO3)	2024/06/19					<1.0	mg/L	NC	20
B406898	Alkalinity (Total as CaCO3)	2024/06/19			99	80 - 120	<1.0	mg/L	3.5	20
B406898	Bicarbonate (HCO3)	2024/06/19					<1.0	mg/L	3.5	20
B406898	Carbonate (CO3)	2024/06/19					<1.0	mg/L	NC	20
B406898	Hydroxide (OH)	2024/06/19					<1.0	mg/L	NC	20
B406901	pH	2024/06/19			100	97 - 103			1.9	N/A
B406940	Dissolved Organic Carbon (C)	2024/06/18	NC	80 - 120	106	80 - 120	<0.50	mg/L	6.5	20
B407081	Total Organic Carbon (C)	2024/06/18	102	80 - 120	105	80 - 120	<0.50	mg/L	0.19	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B408270	Total Organic Carbon (C)	2024/06/19	NC	80 - 120	101	80 - 120	<0.50	mg/L	0.45	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			721084
Address	3rd Floor 865 Waverly St	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5T4			Project Name		C#721084-01-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	aruchkall@kgsgroup.com Fax:	Site #	OAM - Sherridon Mine Site		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By	RED, JWR		

Regulatory Criteria: MWQSOG

Special Instructions: metals + nutrients preserved, not field filtered.

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT (X)

(will be applied if Rush TAT is not specified)

Standard TAT = 5-7 Working days for most tests.

Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)

Date Required: _____ Time Required: _____

Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	pH, Alkalinity	Total Suspended Solids (NFR)	Turbidity	Regulated Metals (CCME/AT1) - Total	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	Hardness Total (calculated as CaCO3)	Sulphate	Carbon (Total Organic)	Carbon (DOC) -Lab Filtered	# of Bottles	Comments
1		SC-2	24/06/11	17:10	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze turbidity + DOC ASAP to meet hold times.
2		SC-3		17:05	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
3		SC-4		17:00	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
4		SC-5		17:15	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
5		SC-6		17:20	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
6		SW-109		PM	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
7																			
8																			
9																			
10																			

MCAL-2024-06-1224

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck	24/06/13	11:15	BH Brooklyn Hebert	24/06/13	1120		☐	9.1/8.0/9.8	☐ Yes ☑ No
			D. Choi / Daniel Choi	24/06/14	8:14				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 725375-01-01, 725375-02-01, 725375-03-01

Report Date: 2024/06/20
Report #: R3516871
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C443827
Received: 2024/06/13, 11:20

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	28	N/A	2024/06/19	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	28	N/A	2024/06/15		Auto Calc
Cadmium - low level CCME (Total) (1)	3	N/A	2024/06/17		Auto Calc
Cadmium - low level CCME (Total) (1)	23	N/A	2024/06/18		Auto Calc
Cadmium - low level CCME (Total) (1)	2	N/A	2024/06/19		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	27	N/A	2024/06/14	AB SOP-00020	SM24-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry (1)	1	N/A	2024/06/20	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	28	N/A	2024/06/18	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	6	N/A	2024/06/16		Auto Calc
Hardness (1)	22	N/A	2024/06/18		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	26	N/A	2024/06/17	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	2	N/A	2024/06/18	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	12	N/A	2024/06/15	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 4)	11	N/A	2024/06/17	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 4)	5	N/A	2024/06/18	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	26	2024/06/17	2024/06/17	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	2	2024/06/18	2024/06/18	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	15	N/A	2024/06/14	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	13	N/A	2024/06/15	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	26	2024/06/17	2024/06/17	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	2	2024/06/18	2024/06/18	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	28	N/A	2024/06/19	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	28	N/A	2024/06/18	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	1	2024/06/14	2024/06/14	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	27	2024/06/17	2024/06/18	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	28	N/A	2024/06/14	CAL SOP-00081	SM 24 2130 B m

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 725375-01-01, 725375-02-01, 725375-03-01

Report Date: 2024/06/20
Report #: R3516871
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C443827
Received: 2024/06/13, 11:20

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(7) TOC present in the sample should be considered as non-purgeable TOC.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 725375-01-01, 725375-02-01, 725375-03-01

Report Date: 2024/06/20
Report #: R3516871
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C443827
Received: 2024/06/13, 11:20

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH725		CPH726			CPH726		
Sampling Date		2024/06/11 17:25		2024/06/11 14:35			2024/06/11 14:35		
COC Number		725375-01-01		725375-01-01			725375-01-01		
	UNITS	SC-1	QC Batch	SB-1	RDL	QC Batch	SB-1 Lab-Dup	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.41	B402598	0.56	0.020	B402598			
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.025	B403398	0.025	0.0030	B403396	0.023	0.0030	B403396
Dissolved Antimony (Sb)	mg/L	<0.00060	B403398	<0.00060	0.00060	B403396	<0.00060	0.00060	B403396
Dissolved Arsenic (As)	mg/L	0.00031	B403398	0.00028	0.00020	B403396	0.00028	0.00020	B403396
Dissolved Barium (Ba)	mg/L	<0.010	B403856	<0.010	0.010	B403860			
Dissolved Beryllium (Be)	mg/L	<0.0010	B403398	<0.0010	0.0010	B403396	<0.0010	0.0010	B403396
Dissolved Boron (B)	mg/L	<0.020	B403856	<0.020	0.020	B403860			
Dissolved Calcium (Ca)	mg/L	8.0	B403856	24	0.30	B403860			
Dissolved Chromium (Cr)	mg/L	<0.0010	B403398	<0.0010	0.0010	B403396	<0.0010	0.0010	B403396
Dissolved Cobalt (Co)	mg/L	<0.00030	B403398	0.00050	0.00030	B403396	0.00052	0.00030	B403396
Dissolved Copper (Cu)	mg/L	0.017	B403398	0.020	0.0010	B403396	0.019	0.0010	B403396
Dissolved Iron (Fe)	mg/L	0.063	B403856	0.33	0.060	B403860			
Dissolved Lead (Pb)	mg/L	<0.00020	B403398	<0.00020	0.00020	B403396	<0.00020	0.00020	B403396
Dissolved Lithium (Li)	mg/L	<0.020	B403856	<0.020	0.020	B403860			
Dissolved Magnesium (Mg)	mg/L	2.5	B403856	4.6	0.20	B403860			
Dissolved Manganese (Mn)	mg/L	0.0076	B403856	0.068	0.0040	B403860			
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B403398	<0.00020	0.00020	B403396	<0.00020	0.00020	B403396
Dissolved Nickel (Ni)	mg/L	0.00056	B403398	0.0012	0.00050	B403396	0.0011	0.00050	B403396
Dissolved Phosphorus (P)	mg/L	<0.10	B403856	<0.10	0.10	B403860			
Dissolved Potassium (K)	mg/L	1.3	B403856	2.3	0.30	B403860			
Dissolved Selenium (Se)	mg/L	<0.00020	B403398	<0.00020	0.00020	B403396	<0.00020	0.00020	B403396
Dissolved Silicon (Si)	mg/L	0.97	B403856	1.0	0.50	B403860			
Dissolved Silver (Ag)	mg/L	<0.00010	B403398	<0.00010	0.00010	B403396	<0.00010	0.00010	B403396
Dissolved Sodium (Na)	mg/L	1.7	B403856	2.3	0.50	B403860			
Dissolved Strontium (Sr)	mg/L	<0.020	B403856	0.030	0.020	B403860			
Dissolved Sulphur (S)	mg/L	1.7	B403856	19	0.20	B403860			
Dissolved Thallium (Tl)	mg/L	<0.00020	B403398	<0.00020	0.00020	B403396	<0.00020	0.00020	B403396
Dissolved Tin (Sn)	mg/L	<0.0010	B403398	<0.0010	0.0010	B403396	<0.0010	0.0010	B403396
Dissolved Titanium (Ti)	mg/L	<0.0010	B403398	<0.0010	0.0010	B403396	<0.0010	0.0010	B403396
Dissolved Uranium (U)	mg/L	<0.00010	B403398	<0.00010	0.00010	B403396	<0.00010	0.00010	B403396

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH725		CPH726			CPH726		
Sampling Date		2024/06/11 17:25		2024/06/11 14:35			2024/06/11 14:35		
COC Number		725375-01-01		725375-01-01			725375-01-01		
	UNITS	**SC-1**	**QC Batch**	**SB-1**	**RDL**	**QC Batch**	**SB-1 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B403398	<0.0010	0.0010	B403396	<0.0010	0.0010	B403396
Dissolved Zinc (Zn)	mg/L	0.14	B403398	0.19	0.0030	B403396	0.19	0.0030	B403396

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH727		CPH728		CPH729		
Sampling Date		2024/06/11 14:30		2024/06/11 14:40		2024/06/11 14:45		
COC Number		725375-01-01		725375-01-01		725375-01-01		
	UNITS	SB-2	QC Batch	CB-1	QC Batch	CB-2	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.48	B402598	0.69	B402598	0.75	0.020	B402598
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.019	B403396	0.026	B403025	0.028	0.0030	B403398
Dissolved Antimony (Sb)	mg/L	<0.00060	B403396	<0.00060	B403025	<0.00060	0.00060	B403398
Dissolved Arsenic (As)	mg/L	0.00031	B403396	<0.00020	B403025	0.00026	0.00020	B403398
Dissolved Barium (Ba)	mg/L	<0.010	B403856	0.010	B406061	0.016	0.010	B403860
Dissolved Beryllium (Be)	mg/L	<0.0010	B403396	<0.0010	B403025	<0.0010	0.0010	B403398
Dissolved Boron (B)	mg/L	<0.020	B403856	<0.020	B406061	<0.020	0.020	B403860
Dissolved Calcium (Ca)	mg/L	22	B403856	32	B406061	31	0.30	B403860
Dissolved Chromium (Cr)	mg/L	<0.0010	B403396	<0.0010	B403025	<0.0010	0.0010	B403398
Dissolved Cobalt (Co)	mg/L	0.00033	B403396	0.00079	B403025	0.00093	0.00030	B403398
Dissolved Copper (Cu)	mg/L	0.017	B403396	0.020	B403025	0.022	0.0010	B403398
Dissolved Iron (Fe)	mg/L	0.28	B403856	0.33	B406061	0.35	0.060	B403860
Dissolved Lead (Pb)	mg/L	<0.00020	B403396	<0.00020	B403025	<0.00020	0.00020	B403398
Dissolved Lithium (Li)	mg/L	<0.020	B403856	<0.020	B406061	<0.020	0.020	B403860
Dissolved Magnesium (Mg)	mg/L	4.3	B403856	5.7	B406061	5.4	0.20	B403860
Dissolved Manganese (Mn)	mg/L	0.055	B403856	0.11	B406061	0.11	0.0040	B403860
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B403396	<0.00020	B403025	<0.00020	0.00020	B403398
Dissolved Nickel (Ni)	mg/L	0.00092	B403396	0.0012	B403025	0.0015	0.00050	B403398
Dissolved Phosphorus (P)	mg/L	<0.10	B403856	<0.10	B406061	<0.10	0.10	B403860
Dissolved Potassium (K)	mg/L	2.2	B403856	2.9	B406061	2.6	0.30	B403860
Dissolved Selenium (Se)	mg/L	<0.00020	B403396	<0.00020	B403025	<0.00020	0.00020	B403398
Dissolved Silicon (Si)	mg/L	1.0	B403856	1.0	B406061	1.1	0.50	B403860
Dissolved Silver (Ag)	mg/L	<0.00010	B403396	<0.00010	B403025	<0.00010	0.00010	B403398
Dissolved Sodium (Na)	mg/L	2.2	B403856	2.6	B406061	2.4	0.50	B403860
Dissolved Strontium (Sr)	mg/L	0.030	B403856	0.036	B406061	0.042	0.020	B403860
Dissolved Sulphur (S)	mg/L	16	B403856	26	B406061	29	0.20	B403860
Dissolved Thallium (Tl)	mg/L	<0.00020	B403396	<0.00020	B403025	<0.00020	0.00020	B403398
Dissolved Tin (Sn)	mg/L	<0.0010	B403396	<0.0010	B403025	<0.0010	0.0010	B403398
Dissolved Titanium (Ti)	mg/L	<0.0010	B403396	<0.0010	B403025	<0.0010	0.0010	B403398
Dissolved Uranium (U)	mg/L	<0.00010	B403396	<0.00010	B403025	<0.00010	0.00010	B403398

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH727		CPH728		CPH729		
Sampling Date		2024/06/11 14:30		2024/06/11 14:40		2024/06/11 14:45		
COC Number		725375-01-01		725375-01-01		725375-01-01		
	UNITS	**SB-2**	**QC Batch**	**CB-1**	**QC Batch**	**CB-2**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B403396	<0.0010	B403025	<0.0010	0.0010	B403398
Dissolved Zinc (Zn)	mg/L	0.17	B403396	0.21	B403025	0.25	0.0030	B403398
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH729			CPH730		CPH731	CPH732		
Sampling Date		2024/06/11 14:45			2024/06/11 14:50		2024/06/11 14:55	2024/06/11 15:25		
COC Number		725375-01-01			725375-01-01		725375-01-01	725375-01-01		
	UNITS	CB-2 Lab-Dup	RDL	QC Batch	EB-1	QC Batch	EB-2	NB-1	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L				1.9	B402598	1.7	1.0	0.020	B402598
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.028	0.0030	B403398	0.035	B403396	0.033	0.023	0.0030	B403396
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B403398	<0.00060	B403396	<0.00060	<0.00060	0.00060	B403396
Dissolved Arsenic (As)	mg/L	0.00024	0.00020	B403398	<0.00020	B403396	<0.00020	0.00022	0.00020	B403396
Dissolved Barium (Ba)	mg/L	0.012	0.010	B403860	0.014	B403856	0.014	0.012	0.010	B403860
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B403398	<0.0010	B403396	<0.0010	<0.0010	0.0010	B403396
Dissolved Boron (B)	mg/L	<0.020	0.020	B403860	<0.020	B403856	<0.020	<0.020	0.020	B403860
Dissolved Calcium (Ca)	mg/L	30	0.30	B403860	53	B403856	51	43	0.30	B403860
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B403398	<0.0010	B403396	<0.0010	<0.0010	0.0010	B403396
Dissolved Cobalt (Co)	mg/L	0.00091	0.00030	B403398	0.0031	B403396	0.0029	0.0014	0.00030	B403396
Dissolved Copper (Cu)	mg/L	0.021	0.0010	B403398	0.047	B403396	0.041	0.024	0.0010	B403396
Dissolved Iron (Fe)	mg/L	0.36	0.060	B403860	0.14	B403856	0.15	0.33	0.060	B403860
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B403398	<0.00020	B403396	<0.00020	<0.00020	0.00020	B403396
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B403860	<0.020	B403856	<0.020	<0.020	0.020	B403860
Dissolved Magnesium (Mg)	mg/L	5.3	0.20	B403860	8.6	B403856	8.4	7.1	0.20	B403860
Dissolved Manganese (Mn)	mg/L	0.11	0.0040	B403860	0.27	B403856	0.26	0.17	0.0040	B403860
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B403398	<0.00020	B403396	<0.00020	<0.00020	0.00020	B403396
Dissolved Nickel (Ni)	mg/L	0.0014	0.00050	B403398	0.0036	B403396	0.0034	0.0019	0.00050	B403396
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B403860	<0.10	B403856	<0.10	<0.10	0.10	B403860
Dissolved Potassium (K)	mg/L	2.6	0.30	B403860	4.1	B403856	4.0	3.6	0.30	B403860
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B403398	<0.00020	B403396	<0.00020	<0.00020	0.00020	B403396
Dissolved Silicon (Si)	mg/L	1.0	0.50	B403860	1.1	B403856	1.2	1.1	0.50	B403860
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B403398	<0.00010	B403396	<0.00010	<0.00010	0.00010	B403396
Dissolved Sodium (Na)	mg/L	2.4	0.50	B403860	3.3	B403856	3.2	2.9	0.50	B403860
Dissolved Strontium (Sr)	mg/L	0.041	0.020	B403860	0.054	B403856	0.051	0.044	0.020	B403860
Dissolved Sulphur (S)	mg/L	29	0.20	B403860	53	B403856	51	41	0.20	B403860
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B403398	<0.00020	B403396	<0.00020	<0.00020	0.00020	B403396
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B403398	<0.0010	B403396	<0.0010	<0.0010	0.0010	B403396
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B403398	<0.0010	B403396	<0.0010	<0.0010	0.0010	B403396
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B403398	<0.00010	B403396	<0.00010	<0.00010	0.00010	B403396

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH729			CPH730		CPH731	CPH732		
Sampling Date		2024/06/11 14:45			2024/06/11 14:50		2024/06/11 14:55	2024/06/11 15:25		
COC Number		725375-01-01			725375-01-01		725375-01-01	725375-01-01		
	UNITS	**CB-2 Lab-Dup**	**RDL**	**QC Batch**	**EB-1**	**QC Batch**	**EB-2**	**NB-1**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B403398	<0.0010	B403396	<0.0010	<0.0010	0.0010	B403396
Dissolved Zinc (Zn)	mg/L	0.24	0.0030	B403398	0.54	B403396	0.51	0.31	0.0030	B403396

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH733		CPH734	CPH735		CPH736		
Sampling Date		2024/06/11 15:00		2024/06/11 15:30	2024/06/11 13:40		2024/06/11 13:45		
COC Number		725375-01-01		725375-01-01	725375-02-01		725375-02-01		
	UNITS	NB-2	QC Batch	CLD	CL-3 SFC	QC Batch	CL-3 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	1.0	B402601	1.1	0.38	B402601	0.70	0.020	B402601
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.029	B403396	0.030	0.018	B403396	0.024	0.0030	B403398
Dissolved Antimony (Sb)	mg/L	<0.00060	B403396	<0.00060	<0.00060	B403396	<0.00060	0.00060	B403398
Dissolved Arsenic (As)	mg/L	0.00022	B403396	<0.00020	0.00030	B403396	0.00026	0.00020	B403398
Dissolved Barium (Ba)	mg/L	0.011	B403860	0.013	0.010	B403860	0.011	0.010	B403856
Dissolved Beryllium (Be)	mg/L	<0.0010	B403396	<0.0010	<0.0010	B403396	<0.0010	0.0010	B403398
Dissolved Boron (B)	mg/L	<0.020	B403860	<0.020	<0.020	B403860	<0.020	0.020	B403856
Dissolved Calcium (Ca)	mg/L	40	B403860	46	26	B403860	34	0.30	B403856
Dissolved Chromium (Cr)	mg/L	<0.0010	B403396	<0.0010	<0.0010	B403396	<0.0010	0.0010	B403398
Dissolved Cobalt (Co)	mg/L	0.0014	B403396	0.0015	0.00033	B403396	0.00089	0.00030	B403398
Dissolved Copper (Cu)	mg/L	0.048	B403396	0.027	0.013	B403396	0.020	0.0010	B403398
Dissolved Iron (Fe)	mg/L	0.27	B403860	0.29	0.19	B403860	0.24	0.060	B403856
Dissolved Lead (Pb)	mg/L	<0.00020	B403396	<0.00020	<0.00020	B403396	<0.00020	0.00020	B403398
Dissolved Lithium (Li)	mg/L	<0.020	B403860	<0.020	<0.020	B403860	<0.020	0.020	B403856
Dissolved Magnesium (Mg)	mg/L	6.7	B403860	7.7	5.0	B403860	6.0	0.20	B403856
Dissolved Manganese (Mn)	mg/L	0.16	B403860	0.18	0.058	B403860	0.11	0.0040	B403856
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B403396	<0.00020	<0.00020	B403396	<0.00020	0.00020	B403398
Dissolved Nickel (Ni)	mg/L	<0.00050	B408120	0.0024	0.0011	B403396	0.0015	0.00050	B403398
Dissolved Phosphorus (P)	mg/L	<0.10	B403860	<0.10	<0.10	B403860	<0.10	0.10	B403856
Dissolved Potassium (K)	mg/L	3.3	B403860	3.8	2.4	B403860	2.9	0.30	B403856
Dissolved Selenium (Se)	mg/L	<0.00020	B403396	<0.00020	<0.00020	B403396	<0.00020	0.00020	B403398
Dissolved Silicon (Si)	mg/L	1.1	B403860	1.1	0.85	B403860	0.95	0.50	B403856
Dissolved Silver (Ag)	mg/L	<0.00010	B403396	<0.00010	<0.00010	B403396	<0.00010	0.00010	B403398
Dissolved Sodium (Na)	mg/L	2.8	B403860	3.1	2.5	B403860	2.7	0.50	B403856
Dissolved Strontium (Sr)	mg/L	0.042	B403860	0.047	0.034	B403860	0.039	0.020	B403856
Dissolved Sulphur (S)	mg/L	40	B403860	43	21	B403860	31	0.20	B403856
Dissolved Thallium (Tl)	mg/L	<0.00020	B403396	<0.00020	<0.00020	B403396	<0.00020	0.00020	B403398
Dissolved Tin (Sn)	mg/L	<0.0010	B403396	<0.0010	<0.0010	B403396	<0.0010	0.0010	B403398
Dissolved Titanium (Ti)	mg/L	<0.0010	B403396	<0.0010	<0.0010	B403396	<0.0010	0.0010	B403398
Dissolved Uranium (U)	mg/L	<0.00010	B403396	<0.00010	<0.00010	B403396	<0.00010	0.00010	B403398

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH733		CPH734	CPH735		CPH736		
Sampling Date		2024/06/11 15:00		2024/06/11 15:30	2024/06/11 13:40		2024/06/11 13:45		
COC Number		725375-01-01		725375-01-01	725375-02-01		725375-02-01		
	UNITS	**NB-2**	**QC Batch**	**CLD**	**CL-3 SFC**	**QC Batch**	**CL-3 BTM**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B403396	<0.0010	<0.0010	B403396	<0.0010	0.0010	B403398
Dissolved Zinc (Zn)	mg/L	0.31	B403396	0.34	0.12	B403396	0.22	0.0030	B403398
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH737		CPH738		CPH739	CPH740		
Sampling Date		2024/06/11 13:50		2024/06/11 13:55		2024/06/11 13:30	2024/06/11 13:35		
COC Number		725375-02-01		725375-02-01		725375-02-01	725375-02-01		
	UNITS	CL-7 SFC	QC Batch	CL-7 BTM	QC Batch	CL-8 SFC	CL-8 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.20	B402601	0.19	B402601	0.18	0.36	0.020	B402601
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.015	B403396	0.018	B403033	0.015	0.017	0.0030	B403025
Dissolved Antimony (Sb)	mg/L	<0.00060	B403396	<0.00060	B403033	<0.00060	<0.00060	0.00060	B403025
Dissolved Arsenic (As)	mg/L	0.00038	B403396	0.00027	B403033	0.00021	<0.00020	0.00020	B403025
Dissolved Barium (Ba)	mg/L	<0.010	B403856	<0.010	B406061	<0.010	<0.010	0.010	B405389
Dissolved Beryllium (Be)	mg/L	<0.0010	B403396	<0.0010	B403033	<0.0010	<0.0010	0.0010	B403025
Dissolved Boron (B)	mg/L	<0.020	B403856	<0.020	B406061	<0.020	<0.020	0.020	B405389
Dissolved Calcium (Ca)	mg/L	19	B403856	20	B406061	19	26	0.30	B405389
Dissolved Chromium (Cr)	mg/L	<0.0010	B403396	<0.0010	B403033	<0.0010	<0.0010	0.0010	B403025
Dissolved Cobalt (Co)	mg/L	<0.00030	B403396	<0.00030	B403033	<0.00030	0.00030	0.00030	B403025
Dissolved Copper (Cu)	mg/L	0.0093	B403396	0.0088	B403033	0.0080	0.012	0.0010	B403025
Dissolved Iron (Fe)	mg/L	0.11	B403856	0.13	B406061	0.12	0.17	0.060	B405389
Dissolved Lead (Pb)	mg/L	<0.00020	B403396	<0.00020	B403033	<0.00020	<0.00020	0.00020	B403025
Dissolved Lithium (Li)	mg/L	<0.020	B403856	<0.020	B406061	<0.020	<0.020	0.020	B405389
Dissolved Magnesium (Mg)	mg/L	4.1	B403856	4.3	B406061	4.0	5.0	0.20	B405389
Dissolved Manganese (Mn)	mg/L	0.019	B403856	0.022	B406061	0.021	0.063	0.0040	B405389
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B403396	<0.00020	B403033	<0.00020	<0.00020	0.00020	B403025
Dissolved Nickel (Ni)	mg/L	0.00081	B403396	0.00062	B403033	0.00058	0.00080	0.00050	B403025
Dissolved Phosphorus (P)	mg/L	<0.10	B403856	<0.10	B406061	<0.10	<0.10	0.10	B405389
Dissolved Potassium (K)	mg/L	2.0	B403856	2.2	B406061	2.0	2.4	0.30	B405389
Dissolved Selenium (Se)	mg/L	<0.00020	B403396	<0.00020	B403033	<0.00020	<0.00020	0.00020	B403025
Dissolved Silicon (Si)	mg/L	0.76	B403856	0.74	B406061	0.70	0.82	0.50	B405389
Dissolved Silver (Ag)	mg/L	<0.00010	B403396	<0.00010	B403033	<0.00010	<0.00010	0.00010	B403025
Dissolved Sodium (Na)	mg/L	2.3	B403856	2.4	B406061	2.3	2.5	0.50	B405389
Dissolved Strontium (Sr)	mg/L	0.030	B403856	0.030	B406061	0.035	0.039	0.020	B405389
Dissolved Sulphur (S)	mg/L	13	B403856	14	B406061	13	20	0.20	B405389
Dissolved Thallium (Tl)	mg/L	<0.00020	B403396	<0.00020	B403033	<0.00020	<0.00020	0.00020	B403025
Dissolved Tin (Sn)	mg/L	<0.0010	B403396	<0.0010	B403033	<0.0010	<0.0010	0.0010	B403025
Dissolved Titanium (Ti)	mg/L	<0.0010	B403396	<0.0010	B403033	<0.0010	<0.0010	0.0010	B403025
Dissolved Uranium (U)	mg/L	<0.00010	B403396	<0.00010	B403033	<0.00010	<0.00010	0.00010	B403025

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH737		CPH738		CPH739	CPH740		
Sampling Date		2024/06/11 13:50		2024/06/11 13:55		2024/06/11 13:30	2024/06/11 13:35		
COC Number		725375-02-01		725375-02-01		725375-02-01	725375-02-01		
	UNITS	**CL-7 SFC**	**QC Batch**	**CL-7 BTM**	**QC Batch**	**CL-8 SFC**	**CL-8 BTM**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B403396	<0.0010	B403033	<0.0010	<0.0010	0.0010	B403025
Dissolved Zinc (Zn)	mg/L	0.069	B403396	0.065	B403033	0.058	0.11	0.0030	B403025
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH741	CPH742	CPH743		CPH744		
Sampling Date		2024/06/11 14:00	2024/06/11 14:05	2024/06/11 13:20		2024/06/11 13:25		
COC Number		725375-02-01	725375-02-01	725375-02-01		725375-02-01		
	UNITS	CL-2 SFC	CL-2 BTM	CL-4 SFC	QC Batch	CL-4 BTM	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.082	0.056	0.13	B402601	0.084	0.020	B402601
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.017	0.016	0.014	B403033	0.014	0.0030	B403025
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	B403033	<0.00060	0.00060	B403025
Dissolved Arsenic (As)	mg/L	0.00025	0.00027	0.00022	B403033	0.00025	0.00020	B403025
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	<0.010	B405389	<0.010	0.010	B405389
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	B403033	<0.0010	0.0010	B403025
Dissolved Boron (B)	mg/L	<0.020	<0.020	<0.020	B405389	<0.020	0.020	B405389
Dissolved Calcium (Ca)	mg/L	15	14	17	B405389	16	0.30	B405389
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	B403033	<0.0010	0.0010	B403025
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	B403033	<0.00030	0.00030	B403025
Dissolved Copper (Cu)	mg/L	0.0058	0.0052	0.0071	B403033	0.0055	0.0010	B403025
Dissolved Iron (Fe)	mg/L	0.090	0.076	0.087	B405389	0.12	0.060	B405389
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	B403033	<0.00020	0.00020	B403025
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	B405389	<0.020	0.020	B405389
Dissolved Magnesium (Mg)	mg/L	3.5	3.4	3.8	B405389	3.6	0.20	B405389
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	0.011	B405389	<0.0040	0.0040	B405389
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	B403033	<0.00020	0.00020	B403025
Dissolved Nickel (Ni)	mg/L	<0.00050	<0.00050	0.00055	B403033	<0.00050	0.00050	B403025
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	B405389	<0.10	0.10	B405389
Dissolved Potassium (K)	mg/L	1.6	1.7	1.8	B405389	1.7	0.30	B405389
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	B403033	<0.00020	0.00020	B403025
Dissolved Silicon (Si)	mg/L	0.72	0.61	0.64	B405389	0.73	0.50	B405389
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	B403033	<0.00010	0.00010	B403025
Dissolved Sodium (Na)	mg/L	2.1	2.1	2.2	B405389	2.1	0.50	B405389
Dissolved Strontium (Sr)	mg/L	0.032	0.031	0.033	B405389	0.032	0.020	B405389
Dissolved Sulphur (S)	mg/L	9.6	7.1	10	B405389	9.4	0.20	B405389
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	B403033	<0.00020	0.00020	B403025
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	B403033	<0.0010	0.0010	B403025
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	<0.0010	B403033	<0.0010	0.0010	B403025
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	B403033	<0.00010	0.00010	B403025

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH741	CPH742	CPH743		CPH744		
Sampling Date		2024/06/11 14:00	2024/06/11 14:05	2024/06/11 13:20		2024/06/11 13:25		
COC Number		725375-02-01	725375-02-01	725375-02-01		725375-02-01		
	UNITS	**CL-2 SFC**	**CL-2 BTM**	**CL-4 SFC**	**QC Batch**	**CL-4 BTM**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	B403033	<0.0010	0.0010	B403025
Dissolved Zinc (Zn)	mg/L	0.030	0.024	0.046	B403033	0.032	0.0030	B403025
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH744			CPH745	CPH746	CPH747		
Sampling Date		2024/06/11 13:25			2024/06/11 13:10	2024/06/11 13:15	2024/06/11 13:00		
COC Number		725375-02-01			725375-03-01	725375-03-01	725375-03-01		
	UNITS	CL-4 BTM Lab-Dup	RDL	QC Batch	CL-5 SFC	CL-5 BTM	CL-6 SFC	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L				0.073	0.066	0.028	0.020	B402601
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.015	0.0030	B403025	0.018	0.016	0.018	0.0030	B403025
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B403025	<0.00060	<0.00060	<0.00060	0.00060	B403025
Dissolved Arsenic (As)	mg/L	0.00021	0.00020	B403025	0.00026	0.00032	0.00031	0.00020	B403025
Dissolved Barium (Ba)	mg/L				<0.010	<0.010	<0.010	0.010	B405389
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B403025	<0.0010	<0.0010	<0.0010	0.0010	B403025
Dissolved Boron (B)	mg/L				<0.020	<0.020	<0.020	0.020	B405389
Dissolved Calcium (Ca)	mg/L				12	13	11	0.30	B405389
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B403025	<0.0010	<0.0010	<0.0010	0.0010	B403025
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B403025	<0.00030	<0.00030	<0.00030	0.00030	B403025
Dissolved Copper (Cu)	mg/L	0.0056	0.0010	B403025	0.0061	0.0055	0.0034	0.0010	B403025
Dissolved Iron (Fe)	mg/L				<0.060	0.063	<0.060	0.060	B405389
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B403025	<0.00020	<0.00020	<0.00020	0.00020	B403025
Dissolved Lithium (Li)	mg/L				<0.020	<0.020	<0.020	0.020	B405389
Dissolved Magnesium (Mg)	mg/L				3.1	3.2	2.9	0.20	B405389
Dissolved Manganese (Mn)	mg/L				<0.0040	<0.0040	<0.0040	0.0040	B405389
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B403025	<0.00020	<0.00020	<0.00020	0.00020	B403025
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B403025	<0.00050	<0.00050	<0.00050	0.00050	B403025
Dissolved Phosphorus (P)	mg/L				<0.10	<0.10	<0.10	0.10	B405389
Dissolved Potassium (K)	mg/L				1.4	1.5	1.4	0.30	B405389
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B403025	<0.00020	<0.00020	<0.00020	0.00020	B403025
Dissolved Silicon (Si)	mg/L				0.60	0.60	<0.50	0.50	B405389
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B403025	<0.00010	<0.00010	<0.00010	0.00010	B403025
Dissolved Sodium (Na)	mg/L				2.0	2.1	2.0	0.50	B405389
Dissolved Strontium (Sr)	mg/L				0.029	0.030	0.028	0.020	B405389
Dissolved Sulphur (S)	mg/L				5.4	6.5	4.4	0.20	B405389
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B403025	<0.00020	<0.00020	<0.00020	0.00020	B403025
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B403025	<0.0010	<0.0010	<0.0010	0.0010	B403025
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B403025	<0.0010	<0.0010	<0.0010	0.0010	B403025
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B403025	<0.00010	<0.00010	<0.00010	0.00010	B403025

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH744			CPH745	CPH746	CPH747		
Sampling Date		2024/06/11 13:25			2024/06/11 13:10	2024/06/11 13:15	2024/06/11 13:00		
COC Number		725375-02-01			725375-03-01	725375-03-01	725375-03-01		
	UNITS	CL-4 BTM Lab-Dup	RDL	QC Batch	CL-5 SFC	CL-5 BTM	CL-6 SFC	RDL	QC Batch
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B403025	<0.0010	<0.0010	<0.0010	0.0010	B403025
Dissolved Zinc (Zn)	mg/L	0.032	0.0030	B403025	0.030	0.026	0.011	0.0030	B403025

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH748		CPH749		CPH750		CPH751		
Sampling Date		2024/06/11 13:05		2024/06/11		2024/06/11		2024/06/11		
COC Number		725375-03-01		725375-03-01		725375-03-01		725375-03-01		
	UNITS	CL-6 BTM	QC Batch	SW-106	QC Batch	SW-107	QC Batch	SW-108	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.027	B402601	0.19	B402601	0.072	B402601	0.88	0.020	B402601
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.014	B403025	0.016	B403033	0.015	B403396	0.022	0.0030	B403025
Dissolved Antimony (Sb)	mg/L	<0.00060	B403025	<0.00060	B403033	<0.00060	B403396	<0.00060	0.00060	B403025
Dissolved Arsenic (As)	mg/L	0.00029	B403025	0.00020	B403033	0.00035	B403396	<0.00020	0.00020	B403025
Dissolved Barium (Ba)	mg/L	<0.010	B406061	<0.010	B405389	<0.010	B403856	0.012	0.010	B406061
Dissolved Beryllium (Be)	mg/L	<0.0010	B403025	<0.0010	B403033	<0.0010	B403396	<0.0010	0.0010	B403025
Dissolved Boron (B)	mg/L	<0.020	B406061	<0.020	B405389	<0.020	B403856	<0.020	0.020	B406061
Dissolved Calcium (Ca)	mg/L	12	B406061	19	B405389	14	B403856	45	0.30	B406061
Dissolved Chromium (Cr)	mg/L	<0.0010	B403025	<0.0010	B403033	<0.0010	B403396	<0.0010	0.0010	B403025
Dissolved Cobalt (Co)	mg/L	<0.00030	B403025	<0.00030	B403033	<0.00030	B403396	0.0012	0.00030	B403025
Dissolved Copper (Cu)	mg/L	0.0034	B403025	0.0084	B403033	0.0057	B403396	0.021	0.0010	B403025
Dissolved Iron (Fe)	mg/L	<0.060	B406061	0.11	B405389	0.094	B403856	0.35	0.060	B406061
Dissolved Lead (Pb)	mg/L	<0.00020	B403025	<0.00020	B403033	<0.00020	B403396	<0.00020	0.00020	B408120
Dissolved Lithium (Li)	mg/L	<0.020	B406061	<0.020	B405389	<0.020	B403856	<0.020	0.020	B406061
Dissolved Magnesium (Mg)	mg/L	3.3	B406061	4.1	B405389	3.5	B403856	7.5	0.20	B406061
Dissolved Manganese (Mn)	mg/L	<0.0040	B406061	0.022	B405389	<0.0040	B403856	0.17	0.0040	B406061
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B403025	<0.00020	B403033	<0.00020	B403396	<0.00020	0.00020	B403025
Dissolved Nickel (Ni)	mg/L	<0.00050	B403025	0.00058	B403033	0.00055	B403396	0.0016	0.00050	B408120
Dissolved Phosphorus (P)	mg/L	<0.10	B406061	<0.10	B405389	<0.10	B403856	<0.10	0.10	B406061
Dissolved Potassium (K)	mg/L	1.6	B406061	2.0	B405389	1.6	B403856	3.7	0.30	B406061
Dissolved Selenium (Se)	mg/L	<0.00020	B403025	<0.00020	B403033	<0.00020	B403396	<0.00020	0.00020	B403025
Dissolved Silicon (Si)	mg/L	0.52	B406061	0.69	B405389	0.75	B403856	1.1	0.50	B406061
Dissolved Silver (Ag)	mg/L	<0.00010	B403025	<0.00010	B403033	<0.00010	B403396	<0.00010	0.00010	B403025
Dissolved Sodium (Na)	mg/L	2.2	B406061	2.3	B405389	2.2	B403856	3.1	0.50	B406061
Dissolved Strontium (Sr)	mg/L	0.026	B406061	0.034	B405389	0.027	B403856	0.045	0.020	B406061
Dissolved Sulphur (S)	mg/L	5.0	B406061	12	B405389	8.5	B403856	41	0.20	B406061
Dissolved Thallium (Tl)	mg/L	<0.00020	B403025	<0.00020	B403033	<0.00020	B403396	<0.00020	0.00020	B403025
Dissolved Tin (Sn)	mg/L	<0.0010	B403025	<0.0010	B403033	<0.0010	B403396	<0.0010	0.0010	B403025
Dissolved Titanium (Ti)	mg/L	<0.0010	B403025	<0.0010	B403033	<0.0010	B403396	<0.0010	0.0010	B403025
Dissolved Uranium (U)	mg/L	<0.00010	B403025	<0.00010	B403033	<0.00010	B403396	<0.00010	0.00010	B403025

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH748		CPH749		CPH750		CPH751		
Sampling Date		2024/06/11 13:05		2024/06/11		2024/06/11		2024/06/11		
COC Number		725375-03-01		725375-03-01		725375-03-01		725375-03-01		
	UNITS	**CL-6 BTM**	**QC Batch**	**SW-106**	**QC Batch**	**SW-107**	**QC Batch**	**SW-108**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B403025	<0.0010	B403033	<0.0010	B403396	<0.0010	0.0010	B403025
Dissolved Zinc (Zn)	mg/L	0.012	B403025	0.061	B403033	0.028	B403396	0.26	0.0030	B403025
RDL = Reportable Detection Limit										

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH752		
Sampling Date				
COC Number		725375-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Elements				
Dissolved Cadmium (Cd)	ug/L	<0.020	0.020	B402601
Lab Filtered Elements				
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	B403033
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B403033
Dissolved Arsenic (As)	mg/L	<0.00020	0.00020	B403033
Dissolved Barium (Ba)	mg/L	<0.010	0.010	B406061
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B403033
Dissolved Boron (B)	mg/L	<0.020	0.020	B406061
Dissolved Calcium (Ca)	mg/L	<0.30	0.30	B406061
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B403033
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B403033
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	B403033
Dissolved Iron (Fe)	mg/L	<0.060	0.060	B406061
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B403033
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B406061
Dissolved Magnesium (Mg)	mg/L	<0.20	0.20	B406061
Dissolved Manganese (Mn)	mg/L	<0.0040	0.0040	B406061
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B408120
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B403033
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B406061
Dissolved Potassium (K)	mg/L	<0.30	0.30	B406061
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B403033
Dissolved Silicon (Si)	mg/L	<0.50	0.50	B406061
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B403033
Dissolved Sodium (Na)	mg/L	<0.50	0.50	B406061
Dissolved Strontium (Sr)	mg/L	<0.020	0.020	B406061
Dissolved Sulphur (S)	mg/L	<0.20	0.20	B406061
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B403033
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B403033
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B403033
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B403033
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CPH752		
Sampling Date				
COC Number		725375-03-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B403033
Dissolved Zinc (Zn)	mg/L	<0.0030	0.0030	B403033
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH725		CPH726	CPH727	CPH728	CPH729		
Sampling Date		2024/06/11 17:25		2024/06/11 14:35	2024/06/11 14:30	2024/06/11 14:40	2024/06/11 14:45		
COC Number		725375-01-01		725375-01-01	725375-01-01	725375-01-01	725375-01-01		
	UNITS	SC-1	QC Batch	SB-1	SB-2	CB-1	CB-2	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.61	B402606	0.81	0.75	0.94	0.90	0.020	B402606
Total Aluminum (Al)	mg/L	0.095	B404671	0.086	0.081	0.097	0.099	0.0030	B405054
Total Antimony (Sb)	mg/L	<0.00060	B404671	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B405054
Total Arsenic (As)	mg/L	0.00059	B404671	0.00041	0.00041	0.00037	0.00031	0.00020	B405054
Total Barium (Ba)	mg/L	<0.010	B404675	0.011	0.010	0.012	0.013	0.010	B405070
Total Beryllium (Be)	mg/L	<0.0010	B404671	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B405054
Total Boron (B)	mg/L	<0.020	B404675	<0.020	<0.020	<0.020	<0.020	0.020	B405070
Total Calcium (Ca)	mg/L	8.2	B404675	25	23	32	34	0.30	B405070
Total Chromium (Cr)	mg/L	<0.0010	B404671	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B405054
Total Cobalt (Co)	mg/L	<0.00030	B404671	0.00088	0.00077	0.0012	0.0012	0.00030	B405054
Total Copper (Cu)	mg/L	0.027	B404671	0.035	0.030	0.037	0.035	0.0010	B405054
Total Iron (Fe)	mg/L	0.14	B404675	1.0	0.91	1.0	1.3	0.060	B405070
Total Lead (Pb)	mg/L	<0.00020	B404671	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B405054
Total Lithium (Li)	mg/L	<0.020	B404675	<0.020	<0.020	<0.020	<0.020	0.020	B405070
Total Magnesium (Mg)	mg/L	2.6	B404675	4.9	4.6	5.9	6.1	0.20	B405070
Total Manganese (Mn)	mg/L	0.014	B404675	0.090	0.077	0.083	0.13	0.0040	B405070
Total Molybdenum (Mo)	mg/L	<0.00020	B404671	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B405054
Total Nickel (Ni)	mg/L	0.00076	B404671	0.0016	0.0013	0.0017	0.0017	0.00050	B405054
Total Phosphorus (P)	mg/L	<0.10	B404675	<0.10	<0.10	<0.10	<0.10	0.10	B405070
Total Potassium (K)	mg/L	1.2	B404675	2.4	2.3	2.8	2.9	0.30	B405070
Total Selenium (Se)	mg/L	<0.00020	B404671	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B405054
Total Silicon (Si)	mg/L	1.2	B404675	1.3	1.3	1.1	1.4	0.50	B405070
Total Silver (Ag)	mg/L	<0.00010	B404671	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B405054
Total Sodium (Na)	mg/L	1.7	B404675	2.4	2.3	2.6	2.6	0.50	B405070
Total Strontium (Sr)	mg/L	0.022	B404675	0.037	0.035	0.043	0.045	0.020	B405070
Total Sulphur (S)	mg/L	1.9	B404675	21	19	24	31	0.20	B405070
Total Thallium (Tl)	mg/L	<0.00020	B404671	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B405054
Total Tin (Sn)	mg/L	<0.0010	B404671	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B405054
Total Titanium (Ti)	mg/L	0.0036	B404671	0.0018	0.0023	0.0018	0.0016	0.0010	B405054
Total Uranium (U)	mg/L	<0.00010	B404671	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B405054
Total Vanadium (V)	mg/L	<0.0010	B404671	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B405054

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH725		CPH726	CPH727	CPH728	CPH729		
Sampling Date		2024/06/11 17:25		2024/06/11 14:35	2024/06/11 14:30	2024/06/11 14:40	2024/06/11 14:45		
COC Number		725375-01-01		725375-01-01	725375-01-01	725375-01-01	725375-01-01		
	UNITS	**SC-1**	**QC Batch**	**SB-1**	**SB-2**	**CB-1**	**CB-2**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.21	B404671	0.28	0.25	0.31	0.30	0.0030	B405054
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH730		CPH731		CPH732		CPH733		
Sampling Date		2024/06/11 14:50		2024/06/11 14:55		2024/06/11 15:25		2024/06/11 15:00		
COC Number		725375-01-01		725375-01-01		725375-01-01		725375-01-01		
	UNITS	EB-1	QC Batch	EB-2	QC Batch	NB-1	QC Batch	NB-2	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L	2.0	B402606	2.9	B402606	1.6	B402606	1.2	0.020	B402606
Total Aluminum (Al)	mg/L	0.23	B406224	0.33	B405054	0.16	B404671	0.11	0.0030	B405054
Total Antimony (Sb)	mg/L	<0.00060	B406224	<0.00060	B405054	<0.00060	B404671	<0.00060	0.00060	B405054
Total Arsenic (As)	mg/L	<0.00020	B406224	0.00032	B405054	0.00043	B404671	0.00029	0.00020	B405054
Total Barium (Ba)	mg/L	0.015	B406232	0.016	B405070	0.014	B404675	0.014	0.010	B405070
Total Beryllium (Be)	mg/L	<0.0010	B406224	<0.0010	B405054	<0.0010	B404671	<0.0010	0.0010	B405054
Total Boron (B)	mg/L	<0.020	B406232	<0.020	B405070	<0.020	B404675	<0.020	0.020	B405070
Total Calcium (Ca)	mg/L	52	B406232	57	B405070	45	B404675	45	0.30	B405070
Total Chromium (Cr)	mg/L	<0.0010	B406224	<0.0010	B405054	<0.0010	B404671	<0.0010	0.0010	B405054
Total Cobalt (Co)	mg/L	0.0030	B406224	0.0047	B405054	0.0021	B404671	0.0016	0.00030	B405054
Total Copper (Cu)	mg/L	0.065	B406224	0.099	B405054	0.058	B404671	0.045	0.0010	B405054
Total Iron (Fe)	mg/L	1.0	B406232	1.2	B405070	1.8	B404675	1.6	0.060	B405070
Total Lead (Pb)	mg/L	<0.00020	B406224	<0.00020	B405054	0.0010	B404671	<0.00020	0.00020	B405054
Total Lithium (Li)	mg/L	<0.020	B406232	<0.020	B405070	<0.020	B404675	<0.020	0.020	B405070
Total Magnesium (Mg)	mg/L	8.8	B406232	9.4	B405070	7.5	B404675	7.5	0.20	B405070
Total Manganese (Mn)	mg/L	0.27	B406232	0.27	B405070	0.19	B404675	0.19	0.0040	B405070
Total Molybdenum (Mo)	mg/L	<0.00020	B406224	0.00022	B405054	<0.00020	B404671	<0.00020	0.00020	B405054
Total Nickel (Ni)	mg/L	0.0034	B406224	0.0055	B405054	0.0028	B404671	0.0020	0.00050	B405054
Total Phosphorus (P)	mg/L	<0.10	B406232	<0.10	B405070	<0.10	B404675	<0.10	0.10	B405070
Total Potassium (K)	mg/L	3.9	B406232	4.1	B405070	3.6	B404675	3.6	0.30	B405070
Total Selenium (Se)	mg/L	<0.00020	B406224	<0.00020	B405054	<0.00020	B404671	<0.00020	0.00020	B405054
Total Silicon (Si)	mg/L	1.3	B406232	1.3	B405070	1.3	B404675	1.4	0.50	B405070
Total Silver (Ag)	mg/L	<0.00010	B406224	<0.00010	B405054	<0.00010	B404671	<0.00010	0.00010	B405054
Total Sodium (Na)	mg/L	3.2	B406232	3.5	B405070	3.0	B404675	3.0	0.50	B405070
Total Strontium (Sr)	mg/L	0.060	B406232	0.066	B405070	0.053	B404675	0.054	0.020	B405070
Total Sulphur (S)	mg/L	52	B406232	54	B405070	45	B404675	43	0.20	B405070
Total Thallium (Tl)	mg/L	<0.00020	B406224	<0.00020	B405054	<0.00020	B404671	<0.00020	0.00020	B405054
Total Tin (Sn)	mg/L	<0.0010	B406224	<0.0010	B405054	<0.0010	B404671	<0.0010	0.0010	B405054
Total Titanium (Ti)	mg/L	0.0016	B406224	0.0025	B405054	0.0020	B404671	0.0015	0.0010	B405054
Total Uranium (U)	mg/L	<0.00010	B406224	0.00012	B405054	<0.00010	B404671	<0.00010	0.00010	B405054
Total Vanadium (V)	mg/L	<0.0010	B406224	<0.0010	B405054	<0.0010	B404671	<0.0010	0.0010	B405054

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH730		CPH731		CPH732		CPH733		
Sampling Date		2024/06/11 14:50		2024/06/11 14:55		2024/06/11 15:25		2024/06/11 15:00		
COC Number		725375-01-01		725375-01-01		725375-01-01		725375-01-01		
	UNITS	EB-1	QC Batch	EB-2	QC Batch	NB-1	QC Batch	NB-2	RDL	QC Batch
Total Zinc (Zn)	mg/L	0.55	B406224	0.82	B405054	0.49	B404671	0.36	0.0030	B405054
RDL = Reportable Detection Limit										

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH734	CPH735		CPH736		CPH737		
Sampling Date		2024/06/11 15:30	2024/06/11 13:40		2024/06/11 13:45		2024/06/11 13:50		
COC Number		725375-01-01	725375-02-01		725375-02-01		725375-02-01		
	UNITS	CLD	CL-3 SFC	QC Batch	CL-3 BTM	QC Batch	CL-7 SFC	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	1.5	0.56	B402606	0.75	B402606	0.43	0.020	B402606
Total Aluminum (Al)	mg/L	0.15	0.083	B405054	0.086	B406224	0.090	0.0030	B405054
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B405054	<0.00060	B406224	<0.00060	0.00060	B405054
Total Arsenic (As)	mg/L	0.00035	0.00042	B405054	0.00026	B406224	0.00062	0.00020	B405054
Total Barium (Ba)	mg/L	0.014	0.012	B405070	0.017	B406232	0.010	0.010	B405070
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B405054	<0.0010	B406224	<0.0010	0.0010	B405054
Total Boron (B)	mg/L	<0.020	<0.020	B405070	<0.020	B406232	<0.020	0.020	B405070
Total Calcium (Ca)	mg/L	48	27	B405070	35	B406232	20	0.30	B405070
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B405054	<0.0010	B406224	<0.0010	0.0010	B405054
Total Cobalt (Co)	mg/L	0.0020	0.00072	B405054	0.00094	B406224	0.00049	0.00030	B405054
Total Copper (Cu)	mg/L	0.055	0.024	B405054	0.027	B406224	0.020	0.0010	B405054
Total Iron (Fe)	mg/L	1.8	0.93	B405070	1.2	B406232	0.55	0.060	B405070
Total Lead (Pb)	mg/L	<0.00020	<0.00020	B405054	<0.00020	B406224	<0.00020	0.00020	B405054
Total Lithium (Li)	mg/L	<0.020	<0.020	B405070	<0.020	B406232	<0.020	0.020	B405070
Total Magnesium (Mg)	mg/L	8.0	5.3	B405070	6.6	B406232	4.2	0.20	B405070
Total Manganese (Mn)	mg/L	0.20	0.088	B405070	0.13	B406232	0.047	0.0040	B405070
Total Molybdenum (Mo)	mg/L	0.0022	0.00034	B405054	<0.00020	B406224	<0.00020	0.00020	B405054
Total Nickel (Ni)	mg/L	0.0027	0.0013	B405054	0.0013	B406224	0.0012	0.00050	B405054
Total Phosphorus (P)	mg/L	<0.10	<0.10	B405070	<0.10	B406232	<0.10	0.10	B405070
Total Potassium (K)	mg/L	3.8	2.4	B405070	3.1	B406232	2.0	0.30	B405070
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B405054	<0.00020	B406224	<0.00020	0.00020	B405054
Total Silicon (Si)	mg/L	1.4	1.1	B405070	1.2	B406232	0.99	0.50	B405070
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B405054	<0.00010	B406224	<0.00010	0.00010	B405054
Total Sodium (Na)	mg/L	3.1	2.6	B405070	2.8	B406232	2.3	0.50	B405070
Total Strontium (Sr)	mg/L	0.057	0.042	B405070	0.047	B406232	0.035	0.020	B405070
Total Sulphur (S)	mg/L	49	24	B405070	32	B406232	15	0.20	B405070
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B405054	<0.00020	B406224	<0.00020	0.00020	B405054
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B405054	<0.0010	B406224	<0.0010	0.0010	B405054
Total Titanium (Ti)	mg/L	0.0023	0.0020	B405054	0.0019	B406224	0.0022	0.0010	B405054
Total Uranium (U)	mg/L	<0.00010	<0.00010	B405054	<0.00010	B406224	<0.00010	0.00010	B405054
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B405054	<0.0010	B406224	<0.0010	0.0010	B405054

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH734	CPH735		CPH736		CPH737		
Sampling Date		2024/06/11 15:30	2024/06/11 13:40		2024/06/11 13:45		2024/06/11 13:50		
COC Number		725375-01-01	725375-02-01		725375-02-01		725375-02-01		
	UNITS	**CLD**	**CL-3 SFC**	**QC Batch**	**CL-3 BTM**	**QC Batch**	**CL-7 SFC**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.46	0.18	B405054	0.23	B406224	0.14	0.0030	B405054
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH738		CPH739	CPH740	CPH741		
Sampling Date		2024/06/11 13:55		2024/06/11 13:30	2024/06/11 13:35	2024/06/11 14:00		
COC Number		725375-02-01		725375-02-01	725375-02-01	725375-02-01		
	UNITS	CL-7 BTM	QC Batch	CL-8 SFC	CL-8 BTM	CL-2 SFC	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.34	B402606	0.27	0.58	0.20	0.020	B402606
Total Aluminum (Al)	mg/L	0.067	B405054	0.058	0.085	0.070	0.0030	B404671
Total Antimony (Sb)	mg/L	<0.00060	B405054	<0.00060	<0.00060	<0.00060	0.00060	B404671
Total Arsenic (As)	mg/L	0.00049	B405054	0.00045	0.00042	0.00067	0.00020	B404671
Total Barium (Ba)	mg/L	0.011	B405070	0.010	0.012	<0.010	0.010	B404675
Total Beryllium (Be)	mg/L	<0.0010	B405054	<0.0010	<0.0010	<0.0010	0.0010	B404671
Total Boron (B)	mg/L	<0.020	B405070	<0.020	<0.020	<0.020	0.020	B404675
Total Calcium (Ca)	mg/L	21	B405070	19	28	15	0.30	B404675
Total Chromium (Cr)	mg/L	<0.0010	B405054	<0.0010	<0.0010	<0.0010	0.0010	B404671
Total Cobalt (Co)	mg/L	0.00040	B405054	0.00032	0.00072	<0.00030	0.00030	B404671
Total Copper (Cu)	mg/L	0.016	B405054	0.013	0.027	0.011	0.0010	B404671
Total Iron (Fe)	mg/L	0.60	B405070	0.52	0.91	0.32	0.060	B404675
Total Lead (Pb)	mg/L	<0.00020	B405054	<0.00020	0.0016	<0.00020	0.00020	B404671
Total Lithium (Li)	mg/L	<0.020	B405070	<0.020	<0.020	<0.020	0.020	B404675
Total Magnesium (Mg)	mg/L	4.5	B405070	4.1	5.3	3.6	0.20	B404675
Total Manganese (Mn)	mg/L	0.052	B405070	0.046	0.084	0.026	0.0040	B404675
Total Molybdenum (Mo)	mg/L	<0.00020	B405054	<0.00020	0.00021	<0.00020	0.00020	B404671
Total Nickel (Ni)	mg/L	0.00095	B405054	0.00075	0.0017	0.00089	0.00050	B404671
Total Phosphorus (P)	mg/L	<0.10	B405070	<0.10	<0.10	<0.10	0.10	B404675
Total Potassium (K)	mg/L	2.1	B405070	1.9	2.5	1.7	0.30	B404675
Total Selenium (Se)	mg/L	<0.00020	B405054	<0.00020	<0.00020	<0.00020	0.00020	B404671
Total Silicon (Si)	mg/L	1.0	B405070	0.94	1.1	0.88	0.50	B404675
Total Silver (Ag)	mg/L	<0.00010	B405054	<0.00010	<0.00010	<0.00010	0.00010	B404671
Total Sodium (Na)	mg/L	2.5	B405070	2.2	2.6	2.1	0.50	B404675
Total Strontium (Sr)	mg/L	0.037	B405070	0.034	0.042	0.032	0.020	B404675
Total Sulphur (S)	mg/L	16	B405070	15	24	10	0.20	B404675
Total Thallium (Tl)	mg/L	<0.00020	B405054	<0.00020	<0.00020	<0.00020	0.00020	B404671
Total Tin (Sn)	mg/L	<0.0010	B405054	<0.0010	<0.0010	<0.0010	0.0010	B404671
Total Titanium (Ti)	mg/L	0.0018	B405054	0.0019	0.0024	0.0019	0.0010	B404671
Total Uranium (U)	mg/L	<0.00010	B405054	<0.00010	<0.00010	<0.00010	0.00010	B404671
Total Vanadium (V)	mg/L	<0.0010	B405054	<0.0010	<0.0010	<0.0010	0.0010	B404671

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH738		CPH739	CPH740	CPH741		
Sampling Date		2024/06/11 13:55		2024/06/11 13:30	2024/06/11 13:35	2024/06/11 14:00		
COC Number		725375-02-01		725375-02-01	725375-02-01	725375-02-01		
	UNITS	CL-7 BTM	QC Batch	CL-8 SFC	CL-8 BTM	CL-2 SFC	RDL	QC Batch
Total Zinc (Zn)	mg/L	0.11	B405054	0.092	0.19	0.067	0.0030	B404671
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH742	CPH743		CPH744			CPH744		
Sampling Date		2024/06/11 14:05	2024/06/11 13:20		2024/06/11 13:25			2024/06/11 13:25		
COC Number		725375-02-01	725375-02-01		725375-02-01			725375-02-01		
	UNITS	CL-2 BTM	CL-4 SFC	QC Batch	CL-4 BTM	RDL	QC Batch	CL-4 BTM Lab-Dup	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L	0.11	0.31	B402606	0.20	0.020	B402606			
Total Aluminum (Al)	mg/L	0.055	0.074	B405054	0.079	0.0030	B404671	0.073	0.0030	B404671
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B405054	<0.00060	0.00060	B404671	<0.00060	0.00060	B404671
Total Arsenic (As)	mg/L	0.00042	0.00063	B405054	0.00067	0.00020	B404671	0.00062	0.00020	B404671
Total Barium (Ba)	mg/L	0.010	0.010	B405070	0.011	0.010	B404675	0.010	0.010	B404675
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B405054	<0.0010	0.0010	B404671	<0.0010	0.0010	B404671
Total Boron (B)	mg/L	<0.020	<0.020	B405070	<0.020	0.020	B404675	<0.020	0.020	B404675
Total Calcium (Ca)	mg/L	15	18	B405070	16	0.30	B404675	17	0.30	B404675
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B405054	<0.0010	0.0010	B404671	<0.0010	0.0010	B404671
Total Cobalt (Co)	mg/L	<0.00030	0.00035	B405054	0.00030	0.00030	B404671	<0.00030	0.00030	B404671
Total Copper (Cu)	mg/L	0.0072	0.016	B405054	0.012	0.0010	B404671	0.011	0.0010	B404671
Total Iron (Fe)	mg/L	0.42	0.43	B405070	0.51	0.060	B404675	0.53	0.060	B404675
Total Lead (Pb)	mg/L	<0.00020	<0.00020	B405054	<0.00020	0.00020	B404671	<0.00020	0.00020	B404671
Total Lithium (Li)	mg/L	<0.020	<0.020	B405070	<0.020	0.020	B404675	<0.020	0.020	B404675
Total Magnesium (Mg)	mg/L	3.8	3.9	B405070	3.8	0.20	B404675	3.9	0.20	B404675
Total Manganese (Mn)	mg/L	0.030	0.038	B405070	0.040	0.0040	B404675	0.041	0.0040	B404675
Total Molybdenum (Mo)	mg/L	0.00035	0.00043	B405054	<0.00020	0.00020	B404671	0.00060	0.00020	B404671
Total Nickel (Ni)	mg/L	0.00068	0.0011	B405054	0.00085	0.00050	B404671	0.0014	0.00050	B404671
Total Phosphorus (P)	mg/L	<0.10	<0.10	B405070	<0.10	0.10	B404675	<0.10	0.10	B404675
Total Potassium (K)	mg/L	1.7	1.9	B405070	1.7	0.30	B404675	1.8	0.30	B404675
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B405054	<0.00020	0.00020	B404671	<0.00020	0.00020	B404671
Total Silicon (Si)	mg/L	1.1	0.90	B405070	0.98	0.50	B404675	1.0	0.50	B404675
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B405054	<0.00010	0.00010	B404671	<0.00010	0.00010	B404671
Total Sodium (Na)	mg/L	2.3	2.3	B405070	2.2	0.50	B404675	2.3	0.50	B404675
Total Strontium (Sr)	mg/L	0.033	0.034	B405070	0.033	0.020	B404675	0.033	0.020	B404675
Total Sulphur (S)	mg/L	9.8	13	B405070	11	0.20	B404675	11	0.20	B404675
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B405054	<0.00020	0.00020	B404671	<0.00020	0.00020	B404671
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B405054	<0.0010	0.0010	B404671	<0.0010	0.0010	B404671
Total Titanium (Ti)	mg/L	0.0011	0.0021	B405054	0.0026	0.0010	B404671	0.0024	0.0010	B404671
Total Uranium (U)	mg/L	<0.00010	<0.00010	B405054	<0.00010	0.00010	B404671	<0.00010	0.00010	B404671
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B405054	<0.0010	0.0010	B404671	<0.0010	0.0010	B404671

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH742	CPH743		CPH744			CPH744		
Sampling Date		2024/06/11 14:05	2024/06/11 13:20		2024/06/11 13:25			2024/06/11 13:25		
COC Number		725375-02-01	725375-02-01		725375-02-01			725375-02-01		
	UNITS	**CL-2 BTM**	**CL-4 SFC**	**QC Batch**	**CL-4 BTM**	**RDL**	**QC Batch**	**CL-4 BTM Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.038	0.11	B405054	0.072	0.0030	B404671	0.069	0.0030	B404671

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH745			CPH745			CPH746		
Sampling Date		2024/06/11 13:10			2024/06/11 13:10			2024/06/11 13:15		
COC Number		725375-03-01			725375-03-01			725375-03-01		
	UNITS	CL-5 SFC	RDL	QC Batch	CL-5 SFC Lab-Dup	RDL	QC Batch	CL-5 BTM	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L	0.12	0.020	B402606				0.099	0.020	B402606
Total Aluminum (Al)	mg/L	0.061	0.0030	B405054	0.073	0.0030	B405054	0.053	0.0030	B404671
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B405054	<0.00060	0.00060	B405054	<0.00060	0.00060	B404671
Total Arsenic (As)	mg/L	0.00050	0.00020	B405054	0.00057	0.00020	B405054	0.00040	0.00020	B404671
Total Barium (Ba)	mg/L	<0.010	0.010	B405070	<0.010	0.010	B405070	<0.010	0.010	B404675
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B405054	<0.0010	0.0010	B405054	<0.0010	0.0010	B404671
Total Boron (B)	mg/L	<0.020	0.020	B405070	<0.020	0.020	B405070	<0.020	0.020	B404675
Total Calcium (Ca)	mg/L	12	0.30	B405070	13	0.30	B405070	13	0.30	B404675
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B405054	<0.0010	0.0010	B405054	<0.0010	0.0010	B404671
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B405054	<0.00030	0.00030	B405054	<0.00030	0.00030	B404671
Total Copper (Cu)	mg/L	0.0093	0.0010	B405054	0.011	0.0010	B405054	0.0071	0.0010	B404671
Total Iron (Fe)	mg/L	0.21	0.060	B405070	0.22	0.060	B405070	0.26	0.060	B404675
Total Lead (Pb)	mg/L	<0.00020	0.00020	B405054	<0.00020	0.00020	B405054	<0.00020	0.00020	B404671
Total Lithium (Li)	mg/L	<0.020	0.020	B405070	<0.020	0.020	B405070	<0.020	0.020	B404675
Total Magnesium (Mg)	mg/L	3.3	0.20	B405070	3.3	0.20	B405070	3.4	0.20	B404675
Total Manganese (Mn)	mg/L	0.016	0.0040	B405070	0.016	0.0040	B405070	0.019	0.0040	B404675
Total Molybdenum (Mo)	mg/L	0.00026	0.00020	B405054	<0.00020	0.00020	B405054	<0.00020	0.00020	B404671
Total Nickel (Ni)	mg/L	0.00063	0.00050	B405054	0.00053	0.00050	B405054	0.00052	0.00050	B404671
Total Phosphorus (P)	mg/L	<0.10	0.10	B405070	<0.10	0.10	B405070	<0.10	0.10	B404675
Total Potassium (K)	mg/L	1.5	0.30	B405070	1.5	0.30	B405070	1.5	0.30	B404675
Total Selenium (Se)	mg/L	<0.00020	0.00020	B405054	<0.00020	0.00020	B405054	<0.00020	0.00020	B404671
Total Silicon (Si)	mg/L	0.91	0.50	B405070	0.91	0.50	B405070	0.96	0.50	B404675
Total Silver (Ag)	mg/L	<0.00010	0.00010	B405054	<0.00010	0.00010	B405054	<0.00010	0.00010	B404671
Total Sodium (Na)	mg/L	2.1	0.50	B405070	2.1	0.50	B405070	2.1	0.50	B404675
Total Strontium (Sr)	mg/L	0.029	0.020	B405070	0.029	0.020	B405070	0.030	0.020	B404675
Total Sulphur (S)	mg/L	6.7	0.20	B405070	6.6	0.20	B405070	7.9	0.20	B404675
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B405054	<0.00020	0.00020	B405054	<0.00020	0.00020	B404671
Total Tin (Sn)	mg/L	<0.0010	0.0010	B405054	<0.0010	0.0010	B405054	<0.0010	0.0010	B404671
Total Titanium (Ti)	mg/L	0.0027	0.0010	B405054	0.0022	0.0010	B405054	0.0015	0.0010	B404671
Total Uranium (U)	mg/L	<0.00010	0.00010	B405054	<0.00010	0.00010	B405054	<0.00010	0.00010	B404671
Total Vanadium (V)	mg/L	<0.0010	0.0010	B405054	<0.0010	0.0010	B405054	<0.0010	0.0010	B404671

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH745			CPH745			CPH746		
Sampling Date		2024/06/11 13:10			2024/06/11 13:10			2024/06/11 13:15		
COC Number		725375-03-01			725375-03-01			725375-03-01		
	UNITS	**CL-5 SFC**	**RDL**	**QC Batch**	**CL-5 SFC Lab-Dup**	**RDL**	**QC Batch**	**CL-5 BTM**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.050	0.0030	B405054	0.060	0.0030	B405054	0.038	0.0030	B404671

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH747		CPH748	CPH749	CPH750	CPH751		
Sampling Date		2024/06/11 13:00		2024/06/11 13:05	2024/06/11	2024/06/11	2024/06/11		
COC Number		725375-03-01		725375-03-01	725375-03-01	725375-03-01	725375-03-01		
	UNITS	CL-6 SFC	QC Batch	CL-6 BTM	SW-106	SW-107	SW-108	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.055	B402606	0.057	0.39	0.14	1.7	0.020	B402606
Total Aluminum (Al)	mg/L	0.052	B405054	0.063	0.079	0.057	0.16	0.0030	B404671
Total Antimony (Sb)	mg/L	<0.00060	B405054	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B404671
Total Arsenic (As)	mg/L	0.00053	B405054	0.00050	0.00066	0.00053	0.00039	0.00020	B404671
Total Barium (Ba)	mg/L	<0.010	B405070	<0.010	0.010	0.010	0.013	0.010	B404675
Total Beryllium (Be)	mg/L	<0.0010	B405054	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B404671
Total Boron (B)	mg/L	<0.020	B405070	<0.020	<0.020	<0.020	<0.020	0.020	B404675
Total Calcium (Ca)	mg/L	11	B405070	11	19	15	44	0.30	B404675
Total Chromium (Cr)	mg/L	<0.0010	B405054	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B404671
Total Cobalt (Co)	mg/L	<0.00030	B405054	<0.00030	0.00044	<0.00030	0.0022	0.00030	B404671
Total Copper (Cu)	mg/L	0.0047	B405054	0.0058	0.019	0.0085	0.062	0.0010	B404671
Total Iron (Fe)	mg/L	0.14	B405070	0.16	0.54	0.39	1.8	0.060	B404675
Total Lead (Pb)	mg/L	<0.00020	B405054	<0.00020	<0.00020	0.00029	<0.00020	0.00020	B404671
Total Lithium (Li)	mg/L	<0.020	B405070	<0.020	<0.020	<0.020	<0.020	0.020	B404675
Total Magnesium (Mg)	mg/L	3.2	B405070	3.2	4.2	3.6	7.4	0.20	B404675
Total Manganese (Mn)	mg/L	0.011	B405070	0.014	0.048	0.029	0.18	0.0040	B404675
Total Molybdenum (Mo)	mg/L	<0.00020	B405054	0.00058	<0.00020	<0.00020	0.00022	0.00020	B404671
Total Nickel (Ni)	mg/L	<0.00050	B405054	0.00065	0.0012	0.00081	0.0030	0.00050	B404671
Total Phosphorus (P)	mg/L	<0.10	B405070	<0.10	<0.10	<0.10	<0.10	0.10	B404675
Total Potassium (K)	mg/L	1.4	B405070	1.3	1.9	1.6	3.4	0.30	B404675
Total Selenium (Se)	mg/L	<0.00020	B405054	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B404671
Total Silicon (Si)	mg/L	0.71	B405070	0.90	0.98	0.97	1.3	0.50	B404675
Total Silver (Ag)	mg/L	<0.00010	B405054	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B404671
Total Sodium (Na)	mg/L	2.0	B405070	2.1	2.3	2.2	3.0	0.50	B404675
Total Strontium (Sr)	mg/L	0.029	B405070	0.028	0.035	0.031	0.053	0.020	B404675
Total Sulphur (S)	mg/L	5.1	B405070	5.2	15	9.3	44	0.20	B404675
Total Thallium (Tl)	mg/L	<0.00020	B405054	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B404671
Total Tin (Sn)	mg/L	<0.0010	B405054	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B404671
Total Titanium (Ti)	mg/L	0.0017	B405054	0.0024	0.0023	0.0018	0.0029	0.0010	B404671
Total Uranium (U)	mg/L	<0.00010	B405054	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B404671
Total Vanadium (V)	mg/L	<0.0010	B405054	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B404671

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH747		CPH748	CPH749	CPH750	CPH751		
Sampling Date		2024/06/11 13:00		2024/06/11 13:05	2024/06/11	2024/06/11	2024/06/11		
COC Number		725375-03-01		725375-03-01	725375-03-01	725375-03-01	725375-03-01		
	UNITS	**CL-6 SFC**	**QC Batch**	**CL-6 BTM**	**SW-106**	**SW-107**	**SW-108**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.018	B405054	0.023	0.13	0.045	0.53	0.0030	B404671
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH752		
Sampling Date				
COC Number		725375-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Elements				
Total Cadmium (Cd)	ug/L	<0.020	0.020	B402606
Total Aluminum (Al)	mg/L	<0.0030	0.0030	B405054
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B405054
Total Arsenic (As)	mg/L	<0.00020	0.00020	B405054
Total Barium (Ba)	mg/L	<0.010	0.010	B405070
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B405054
Total Boron (B)	mg/L	<0.020	0.020	B405070
Total Calcium (Ca)	mg/L	<0.30	0.30	B405070
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B405054
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B405054
Total Copper (Cu)	mg/L	<0.0010	0.0010	B405054
Total Iron (Fe)	mg/L	<0.060	0.060	B405070
Total Lead (Pb)	mg/L	<0.00020	0.00020	B405054
Total Lithium (Li)	mg/L	<0.020	0.020	B405070
Total Magnesium (Mg)	mg/L	<0.20	0.20	B405070
Total Manganese (Mn)	mg/L	<0.0040	0.0040	B405070
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B408788
Total Nickel (Ni)	mg/L	<0.00050	0.00050	B405054
Total Phosphorus (P)	mg/L	<0.10	0.10	B405070
Total Potassium (K)	mg/L	<0.30	0.30	B405070
Total Selenium (Se)	mg/L	<0.00020	0.00020	B405054
Total Silicon (Si)	mg/L	<0.50	0.50	B405070
Total Silver (Ag)	mg/L	<0.00010	0.00010	B405054
Total Sodium (Na)	mg/L	<0.50	0.50	B405070
Total Strontium (Sr)	mg/L	<0.020	0.020	B405070
Total Sulphur (S)	mg/L	<0.20	0.20	B405070
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B405054
Total Tin (Sn)	mg/L	<0.0010	0.0010	B405054
Total Titanium (Ti)	mg/L	<0.0010	0.0010	B405054
Total Uranium (U)	mg/L	<0.00010	0.00010	B405054
Total Vanadium (V)	mg/L	<0.0010	0.0010	B405054
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH752		
Sampling Date				
COC Number		725375-03-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	<0.0030	0.0030	B405054
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH725		CPH726	CPH727		CPH728		
Sampling Date		2024/06/11 17:25		2024/06/11 14:35	2024/06/11 14:30		2024/06/11 14:40		
COC Number		725375-01-01		725375-01-01	725375-01-01		725375-01-01		
	UNITS	SC-1	QC Batch	SB-1	SB-2	QC Batch	CB-1	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	30	B402632	78	72	B402632	100	0.50	B402632
Total Hardness (CaCO3)	mg/L	30.9	B401856	83.2	75.8	B401856	105	0.50	B401856
Misc. Inorganics									
pH	pH	6.67	B406901	6.53	6.57	B406901	6.43	N/A	B406969
Total Organic Carbon (C)	mg/L	11	B407081	9.6	9.7	B406642	8.9	0.50	B406642
Total Suspended Solids	mg/L	2.7	B404512	2.1	1.2	B404512	2.6	1.0	B404512
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	12	B406940	9.2	9.6	B406870	9.0	0.50	B406515
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B406898	<1.0	<1.0	B406898	<1.0	1.0	B406963
Alkalinity (Total as CaCO3)	mg/L	27	B406898	17	21	B406898	15	1.0	B406963
Bicarbonate (HCO3)	mg/L	33	B406898	21	25	B406898	18	1.0	B406963
Carbonate (CO3)	mg/L	<1.0	B406898	<1.0	<1.0	B406898	<1.0	1.0	B406963
Hydroxide (OH)	mg/L	<1.0	B406898	<1.0	<1.0	B406898	<1.0	1.0	B406963
Sulphate (SO4)	mg/L	5.2	B403384	67	61	B403279	86	1.0	B409966
Physical Properties									
Turbidity	NTU	1.8	B402261	6.3	5.0	B402261	7.2	0.10	B402259

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C443827
Report Date: 2024/06/20

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH729			CPH730		CPH731	CPH732		
Sampling Date		2024/06/11 14:45			2024/06/11 14:50		2024/06/11 14:55	2024/06/11 15:25		
COC Number		725375-01-01			725375-01-01		725375-01-01	725375-01-01		
	UNITS	**CB-2**	**RDL**	**QC Batch**	**EB-1**	**QC Batch**	**EB-2**	**NB-1**	**RDL**	**QC Batch**
Calculated Parameters										
Hardness (CaCO3)	mg/L	99	0.50	B402634	170	B402634	160	140	0.50	B402634
Total Hardness (CaCO3)	mg/L	109	0.50	B401856	166	B401856	180	143	0.50	B401856
Misc. Inorganics										
pH	pH	6.46	N/A	B406901	6.13	B406901	6.19	6.33	N/A	B406901
Total Organic Carbon (C)	mg/L	8.4	0.50	B407081	5.7	B406642	6.6	7.4	0.50	B407081
Total Suspended Solids	mg/L	2.9	1.0	B404512	3.4	B404512	2.7	2.7	1.0	B404512
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	8.1	0.50	B406940	5.2	B406870	5.6	7.0	0.50	B406870
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B406898	<1.0	B406898	<1.0	<1.0	1.0	B406898
Alkalinity (Total as CaCO3)	mg/L	14	1.0	B406898	3.9	B406898	5.1	8.8	1.0	B406898
Bicarbonate (HCO3)	mg/L	17	1.0	B406898	4.8	B406898	6.2	11	1.0	B406898
Carbonate (CO3)	mg/L	<1.0	1.0	B406898	<1.0	B406898	<1.0	<1.0	1.0	B406898
Hydroxide (OH)	mg/L	<1.0	1.0	B406898	<1.0	B406898	<1.0	<1.0	1.0	B406898
Sulphate (SO4)	mg/L	100	1.0	B403384	180	B403279	170	140	5.0	B403279
Physical Properties										
Turbidity	NTU	7.9	0.10	B402259	7.4	B402261	8.4	11	0.10	B402261

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C443827
Report Date: 2024/06/20

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH732			CPH733		CPH734		
Sampling Date		2024/06/11 15:25			2024/06/11 15:00		2024/06/11 15:30		
COC Number		725375-01-01			725375-01-01		725375-01-01		
	UNITS	NB-1 Lab-Dup	RDL	QC Batch	NB-2	QC Batch	CLD	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				130	B402634	150	0.50	B402634
Total Hardness (CaCO3)	mg/L				142	B401856	154	0.50	B401856
Misc. Inorganics									
pH	pH				6.33	B406901	6.28	N/A	B406901
Total Organic Carbon (C)	mg/L				7.7	B406642	6.9	0.50	B407081
Total Suspended Solids	mg/L				3.7	B404512	2.5	1.0	B404512
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L				7.1	B406870	6.7	0.50	B406870
Anions									
Alkalinity (PP as CaCO3)	mg/L				<1.0	B406898	<1.0	1.0	B406898
Alkalinity (Total as CaCO3)	mg/L				9.2	B406898	7.5	1.0	B406898
Bicarbonate (HCO3)	mg/L				11	B406898	9.2	1.0	B406898
Carbonate (CO3)	mg/L				<1.0	B406898	<1.0	1.0	B406898
Hydroxide (OH)	mg/L				<1.0	B406898	<1.0	1.0	B406898
Sulphate (SO4)	mg/L				130	B403279	150	5.0	B403279
Physical Properties									
Turbidity	NTU	11	0.10	B402261	10	B402261	11	0.10	B402261

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C443827
Report Date: 2024/06/20

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH735		CPH736		CPH737		CPH738		
Sampling Date		2024/06/11 13:40		2024/06/11 13:45		2024/06/11 13:50		2024/06/11 13:55		
COC Number		725375-02-01		725375-02-01		725375-02-01		725375-02-01		
	UNITS	CL-3 SFC	QC Batch	CL-3 BTM	QC Batch	CL-7 SFC	QC Batch	CL-7 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	85	B402634	110	B402634	64	B402634	68	0.50	B402634
Total Hardness (CaCO3)	mg/L	89.8	B401856	115	B401856	66.2	B401856	71.4	0.50	B401856
Misc. Inorganics										
pH	pH	6.50	B406901	6.43	B406901	6.82	B406901	6.58	N/A	B406969
Total Organic Carbon (C)	mg/L	9.3	B406642	8.1	B406642	9.5	B406642	9.5	0.50	B406642
Total Suspended Solids	mg/L	2.5	B404512	2.7	B404512	<1.0	B404512	1.5	1.0	B404512
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	8.7	B406870	8.2	B406940	10	B406940	9.1	0.50	B406515
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	B406898	<1.0	B406898	<1.0	B406898	<1.0	1.0	B406963
Alkalinity (Total as CaCO3)	mg/L	18	B406898	13	B406898	28	B406898	22	1.0	B406963
Bicarbonate (HCO3)	mg/L	22	B406898	16	B406898	34	B406898	27	1.0	B406963
Carbonate (CO3)	mg/L	<1.0	B406898	<1.0	B406898	<1.0	B406898	<1.0	1.0	B406963
Hydroxide (OH)	mg/L	<1.0	B406898	<1.0	B406898	<1.0	B406898	<1.0	1.0	B406963
Sulphate (SO4)	mg/L	72	B403279	110	B403384	51	B403279	56	1.0	B403103
Physical Properties										
Turbidity	NTU	7.0	B402261	9.7	B402261	4.2	B402261	4.3	0.10	B402259

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C443827
Report Date: 2024/06/20

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH739			CPH739			CPH740		
Sampling Date		2024/06/11 13:30			2024/06/11 13:30			2024/06/11 13:35		
COC Number		725375-02-01			725375-02-01			725375-02-01		
	UNITS	CL-8 SFC	RDL	QC Batch	CL-8 SFC Lab-Dup	RDL	QC Batch	CL-8 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	64	0.50	B402634				86	0.50	B402634
Total Hardness (CaCO3)	mg/L	64.1	0.50	B401856				91.2	0.50	B401856
Misc. Inorganics										
pH	pH	6.50	N/A	B406969	6.58	N/A	B406969	6.52	N/A	B406969
Total Organic Carbon (C)	mg/L	9.6	0.50	B406642				8.4	0.50	B407081
Total Suspended Solids	mg/L	1.9	1.0	B404521	1.1	1.0	B404521	1.8	1.0	B404521
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	9.8	0.50	B406870				8.9	0.50	B406515
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B406963	<1.0	1.0	B406963	<1.0	1.0	B406963
Alkalinity (Total as CaCO3)	mg/L	23	1.0	B406963	23	1.0	B406963	17	1.0	B406963
Bicarbonate (HCO3)	mg/L	28	1.0	B406963	28	1.0	B406963	21	1.0	B406963
Carbonate (CO3)	mg/L	<1.0	1.0	B406963	<1.0	1.0	B406963	<1.0	1.0	B406963
Hydroxide (OH)	mg/L	<1.0	1.0	B406963	<1.0	1.0	B406963	<1.0	1.0	B406963
Sulphate (SO4)	mg/L	50	1.0	B403067				75	1.0	B403101
Physical Properties										
Turbidity	NTU	4.8	0.10	B402259				7.1	0.10	B402709

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C443827
Report Date: 2024/06/20

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH741			CPH741			CPH742		
Sampling Date		2024/06/11 14:00			2024/06/11 14:00			2024/06/11 14:05		
COC Number		725375-02-01			725375-02-01			725375-02-01		
	UNITS	CL-2 SFC	RDL	QC Batch	CL-2 SFC Lab-Dup	RDL	QC Batch	CL-2 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	53	0.50	B402634				49	0.50	B402634
Total Hardness (CaCO3)	mg/L	53.1	0.50	B401856				54.0	0.50	B401856
Misc. Inorganics										
pH	pH	6.66	N/A	B406969				6.65	N/A	B406969
Total Organic Carbon (C)	mg/L	9.9	0.50	B407081				10	0.50	B407081
Total Suspended Solids	mg/L	1.1	1.0	B404521				1.3	1.0	B404521
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10	0.50	B406870				9.7	0.50	B406870
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B406963				<1.0	1.0	B406963
Alkalinity (Total as CaCO3)	mg/L	25	1.0	B406963				25	1.0	B406963
Bicarbonate (HCO3)	mg/L	30	1.0	B406963				31	1.0	B406963
Carbonate (CO3)	mg/L	<1.0	1.0	B406963				<1.0	1.0	B406963
Hydroxide (OH)	mg/L	<1.0	1.0	B406963				<1.0	1.0	B406963
Sulphate (SO4)	mg/L	37	1.0	B403067	37	1.0	B403067	33	1.0	B403067
Physical Properties										
Turbidity	NTU	3.5	0.10	B402709				3.5	0.10	B402261

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH743			CPH744			CPH745		
Sampling Date		2024/06/11 13:20			2024/06/11 13:25			2024/06/11 13:10		
COC Number		725375-02-01			725375-02-01			725375-03-01		
	UNITS	CL-4 SFC	RDL	QC Batch	CL-4 BTM	RDL	QC Batch	CL-5 SFC	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	59	0.50	B402634	53	0.50	B402634	42	0.50	B402634
Total Hardness (CaCO3)	mg/L	60.6	0.50	B401856	56.5	0.50	B402643	44.4	0.50	B402643
Misc. Inorganics										
pH	pH	6.56	N/A	B406969	6.63	N/A	B406969	6.69	N/A	B406969
Total Organic Carbon (C)	mg/L	9.9	0.50	B406642	9.7	0.50	B406642	11	0.50	B406642
Total Suspended Solids	mg/L	<0.96	0.96	B404521	<0.99	0.99	B404521	1.4	1.0	B404521
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	9.6	0.50	B406515	9.6	0.50	B406870	10	0.50	B406515
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B406963	<1.0	1.0	B406963	<1.0	1.0	B406963
Alkalinity (Total as CaCO3)	mg/L	24	1.0	B406963	24	1.0	B406963	26	1.0	B406963
Bicarbonate (HCO3)	mg/L	29	1.0	B406963	30	1.0	B406963	31	1.0	B406963
Carbonate (CO3)	mg/L	<1.0	1.0	B406963	<1.0	1.0	B406963	<1.0	1.0	B406963
Hydroxide (OH)	mg/L	<1.0	1.0	B406963	<1.0	1.0	B406963	<1.0	1.0	B406963
Sulphate (SO4)	mg/L	44	1.0	B403067	39	1.0	B403067	24	1.0	B403103
Physical Properties										
Turbidity	NTU	3.1	0.10	B402261	5.0	0.10	B402259	2.3	0.10	B402261

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C443827
Report Date: 2024/06/20

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RED

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH746		CPH747		CPH748		
Sampling Date		2024/06/11 13:15		2024/06/11 13:00		2024/06/11 13:05		
COC Number		725375-03-01		725375-03-01		725375-03-01		
	UNITS	CL-5 BTM	QC Batch	CL-6 SFC	QC Batch	CL-6 BTM	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	46	B402634	39	B402634	43	0.50	B402634
Total Hardness (CaCO3)	mg/L	47.9	B402643	40.7	B402643	40.7	0.50	B402643
Misc. Inorganics								
pH	pH	6.66	B406969	6.71	B406969	6.69	N/A	B406969
Total Organic Carbon (C)	mg/L	10	B406642	11	B406642	10	0.50	B406642
Total Suspended Solids	mg/L	<1.0	B404521	1.4	B404521	<1.0	1.0	B404521
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	10	B406515	10	B406515	9.9	0.50	B406870
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B406963	<1.0	B406963	<1.0	1.0	B406963
Alkalinity (Total as CaCO3)	mg/L	26	B406963	26	B406963	27	1.0	B406963
Bicarbonate (HCO3)	mg/L	31	B406963	32	B406963	33	1.0	B406963
Carbonate (CO3)	mg/L	<1.0	B406963	<1.0	B406963	<1.0	1.0	B406963
Hydroxide (OH)	mg/L	<1.0	B406963	<1.0	B406963	<1.0	1.0	B406963
Sulphate (SO4)	mg/L	27	B403103	18	B403103	22	1.0	B403103
Physical Properties								
Turbidity	NTU	2.8	B402709	1.7	B402261	1.8	0.10	B402261

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH748			CPH749		CPH750		
Sampling Date		2024/06/11 13:05			2024/06/11		2024/06/11		
COC Number		725375-03-01			725375-03-01		725375-03-01		
	UNITS	**CL-6 BTM Lab-Dup**	**RDL**	**QC Batch**	**SW-106**	**QC Batch**	**SW-107**	**RDL**	**QC Batch**
Calculated Parameters									
Hardness (CaCO3)	mg/L				65	B402634	51	0.50	B402634
Total Hardness (CaCO3)	mg/L				66.1	B402643	51.8	0.50	B402643
Misc. Inorganics									
pH	pH				6.62	B406969	6.52	N/A	B406901
Total Organic Carbon (C)	mg/L				9.7	B406642	9.7	0.50	B406642
Total Suspended Solids	mg/L				2.3	B404521	1.9	1.0	B404521
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	9.9	0.50	B406870	9.7	B406515	9.5	0.50	B406870
Anions									
Alkalinity (PP as CaCO3)	mg/L				<1.0	B406963	<1.0	1.0	B406898
Alkalinity (Total as CaCO3)	mg/L				22	B406963	25	1.0	B406898
Bicarbonate (HCO3)	mg/L				27	B406963	31	1.0	B406898
Carbonate (CO3)	mg/L				<1.0	B406963	<1.0	1.0	B406898
Hydroxide (OH)	mg/L				<1.0	B406963	<1.0	1.0	B406898
Sulphate (SO4)	mg/L				52	B403067	32	1.0	B403279
Physical Properties									
Turbidity	NTU				5.1	B402261	3.4	0.10	B402261

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CPH750			CPH751			CPH752		
Sampling Date		2024/06/11			2024/06/11					
COC Number		725375-03-01			725375-03-01			725375-03-01		
	UNITS	SW-107 Lab-Dup	RDL	QC Batch	SW-108	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				140	0.50	B402634	<0.50	0.50	B402634
Total Hardness (CaCO3)	mg/L				141	0.50	B402643	<0.50	0.50	B402643
Misc. Inorganics										
pH	pH	6.65	N/A	B406901	6.32	N/A	B406969	5.29	N/A	B406969
Total Organic Carbon (C)	mg/L				7.3	0.50	B406642	<0.50	0.50	B406642
Total Suspended Solids	mg/L				<1.0	1.0	B404521	<1.0	1.0	B402875
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L				6.6	0.50	B406515	<0.50	0.50	B406515
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B406898	<1.0	1.0	B406963	<1.0	1.0	B406963
Alkalinity (Total as CaCO3)	mg/L	26	1.0	B406898	8.4	1.0	B406963	<1.0	1.0	B406963
Bicarbonate (HCO3)	mg/L	32	1.0	B406898	10	1.0	B406963	<1.0	1.0	B406963
Carbonate (CO3)	mg/L	<1.0	1.0	B406898	<1.0	1.0	B406963	<1.0	1.0	B406963
Hydroxide (OH)	mg/L	<1.0	1.0	B406898	<1.0	1.0	B406963	<1.0	1.0	B406963
Sulphate (SO4)	mg/L				150	5.0	B403103	<1.0	1.0	B403103
Physical Properties										
Turbidity	NTU				10	0.10	B402261	<0.10	0.10	B402261

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas ID		CPH752		
Sampling Date				
COC Number		725375-03-01		
	UNITS	TRIP BLANK Lab-Dup	RDL	QC Batch
Misc. Inorganics				
Total Organic Carbon (C)	mg/L	<0.50	0.50	B406642
Total Suspended Solids	mg/L	<1.0	1.0	B402875

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	9.0°C
Package 2	6.4°C
Package 3	8.5°C
Package 4	8.5°C

Sample CPH733, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CPH751, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CPH752, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CPH752, Elements by ICPMS - Total: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B402259	Turbidity	2024/06/14			99	80 - 120	<0.10	NTU	3.4	20
B402261	Turbidity	2024/06/14			99	80 - 120	<0.10	NTU	3.7	20
B402709	Turbidity	2024/06/14			100	80 - 120	<0.10	NTU	6.1	20
B402875	Total Suspended Solids	2024/06/14	94	80 - 120	99	80 - 120	<1.0	mg/L	NC	20
B403025	Dissolved Aluminum (Al)	2024/06/14	108	80 - 120	108	80 - 120	<0.0030	mg/L	8.7	20
B403025	Dissolved Antimony (Sb)	2024/06/14	95	80 - 120	89	80 - 120	<0.00060	mg/L	NC	20
B403025	Dissolved Arsenic (As)	2024/06/14	96	80 - 120	89	80 - 120	<0.00020	mg/L	NC	20
B403025	Dissolved Beryllium (Be)	2024/06/14	91	80 - 120	87	80 - 120	<0.0010	mg/L	NC	20
B403025	Dissolved Chromium (Cr)	2024/06/14	94	80 - 120	90	80 - 120	<0.0010	mg/L	NC	20
B403025	Dissolved Cobalt (Co)	2024/06/14	95	80 - 120	92	80 - 120	<0.00030	mg/L	NC	20
B403025	Dissolved Copper (Cu)	2024/06/14	96	80 - 120	92	80 - 120	<0.0010	mg/L	0.88	20
B403025	Dissolved Lead (Pb)	2024/06/14	98	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B403025	Dissolved Molybdenum (Mo)	2024/06/14	97	80 - 120	92	80 - 120	<0.00020	mg/L	NC	20
B403025	Dissolved Nickel (Ni)	2024/06/14	93	80 - 120	90	80 - 120	<0.00050	mg/L	NC	20
B403025	Dissolved Selenium (Se)	2024/06/14	96	80 - 120	86	80 - 120	<0.00020	mg/L	NC	20
B403025	Dissolved Silver (Ag)	2024/06/14	98	80 - 120	94	80 - 120	<0.00010	mg/L	NC	20
B403025	Dissolved Thallium (Tl)	2024/06/14	98	80 - 120	93	80 - 120	<0.00020	mg/L	NC	20
B403025	Dissolved Tin (Sn)	2024/06/14	98	80 - 120	92	80 - 120	<0.0010	mg/L	NC	20
B403025	Dissolved Titanium (Ti)	2024/06/14	93	80 - 120	89	80 - 120	<0.0010	mg/L	NC	20
B403025	Dissolved Uranium (U)	2024/06/14	99	80 - 120	93	80 - 120	<0.00010	mg/L	NC	20
B403025	Dissolved Vanadium (V)	2024/06/14	97	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B403025	Dissolved Zinc (Zn)	2024/06/14	95	80 - 120	84	80 - 120	<0.0030	mg/L	0.93	20
B403033	Dissolved Aluminum (Al)	2024/06/14	92	80 - 120	105	80 - 120	<0.0030	mg/L	NC	20
B403033	Dissolved Antimony (Sb)	2024/06/14	83	80 - 120	88	80 - 120	<0.00060	mg/L	NC	20
B403033	Dissolved Arsenic (As)	2024/06/14	84	80 - 120	87	80 - 120	<0.00020	mg/L	NC	20
B403033	Dissolved Beryllium (Be)	2024/06/14	80	80 - 120	87	80 - 120	<0.0010	mg/L	NC	20
B403033	Dissolved Chromium (Cr)	2024/06/14	83	80 - 120	90	80 - 120	<0.0010	mg/L	NC	20
B403033	Dissolved Cobalt (Co)	2024/06/14	84	80 - 120	92	80 - 120	<0.00030	mg/L	NC	20
B403033	Dissolved Copper (Cu)	2024/06/14	84	80 - 120	91	80 - 120	<0.0010	mg/L	NC	20
B403033	Dissolved Lead (Pb)	2024/06/14	87	80 - 120	93	80 - 120	<0.00020	mg/L	NC	20
B403033	Dissolved Molybdenum (Mo)	2024/06/14	84	80 - 120	92	80 - 120	<0.00020	mg/L	NC	20
B403033	Dissolved Nickel (Ni)	2024/06/14	83	80 - 120	90	80 - 120	<0.00050	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B403033	Dissolved Selenium (Se)	2024/06/14	83	80 - 120	87	80 - 120	<0.00020	mg/L	NC	20
B403033	Dissolved Silver (Ag)	2024/06/14	86	80 - 120	94	80 - 120	<0.00010	mg/L	NC	20
B403033	Dissolved Thallium (Tl)	2024/06/14	87	80 - 120	93	80 - 120	<0.00020	mg/L	NC	20
B403033	Dissolved Tin (Sn)	2024/06/14	85	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B403033	Dissolved Titanium (Ti)	2024/06/14	79 (1)	80 - 120	89	80 - 120	<0.0010	mg/L	NC	20
B403033	Dissolved Uranium (U)	2024/06/14	86	80 - 120	92	80 - 120	<0.00010	mg/L	NC	20
B403033	Dissolved Vanadium (V)	2024/06/14	84	80 - 120	91	80 - 120	<0.0010	mg/L	NC	20
B403033	Dissolved Zinc (Zn)	2024/06/14	81	80 - 120	83	80 - 120	<0.0030	mg/L	NC	20
B403067	Sulphate (SO4)	2024/06/14	113	80 - 120	106	80 - 120	<1.0	mg/L	0.74	20
B403101	Sulphate (SO4)	2024/06/14	105	80 - 120	102	80 - 120	<1.0	mg/L	NC	20
B403103	Sulphate (SO4)	2024/06/14	114	80 - 120	101	80 - 120	<1.0	mg/L	NC	20
B403279	Sulphate (SO4)	2024/06/14	117	80 - 120	104	80 - 120	<1.0	mg/L	11	20
B403384	Sulphate (SO4)	2024/06/14	117	80 - 120	103	80 - 120	<1.0	mg/L	1.2	20
B403396	Dissolved Aluminum (Al)	2024/06/15	95	80 - 120	104	80 - 120	<0.0030	mg/L	9.0	20
B403396	Dissolved Antimony (Sb)	2024/06/15	96	80 - 120	96	80 - 120	<0.00060	mg/L	NC	20
B403396	Dissolved Arsenic (As)	2024/06/15	100	80 - 120	101	80 - 120	<0.00020	mg/L	1.1	20
B403396	Dissolved Beryllium (Be)	2024/06/15	96	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B403396	Dissolved Chromium (Cr)	2024/06/15	97	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B403396	Dissolved Cobalt (Co)	2024/06/15	98	80 - 120	99	80 - 120	<0.00030	mg/L	4.6	20
B403396	Dissolved Copper (Cu)	2024/06/15	96	80 - 120	101	80 - 120	<0.0010	mg/L	4.0	20
B403396	Dissolved Lead (Pb)	2024/06/15	99	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B403396	Dissolved Molybdenum (Mo)	2024/06/15	100	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B403396	Dissolved Nickel (Ni)	2024/06/15	99	80 - 120	101	80 - 120	<0.00050	mg/L	6.1	20
B403396	Dissolved Selenium (Se)	2024/06/15	96	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B403396	Dissolved Silver (Ag)	2024/06/15	97	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B403396	Dissolved Thallium (Tl)	2024/06/15	98	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B403396	Dissolved Tin (Sn)	2024/06/15	97	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B403396	Dissolved Titanium (Ti)	2024/06/15	95	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B403396	Dissolved Uranium (U)	2024/06/15	98	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B403396	Dissolved Vanadium (V)	2024/06/15	97	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B403396	Dissolved Zinc (Zn)	2024/06/15	NC	80 - 120	99	80 - 120	<0.0030	mg/L	2.5	20
B403398	Dissolved Aluminum (Al)	2024/06/15	91	80 - 120	102	80 - 120	<0.0030	mg/L	0.32	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B403398	Dissolved Antimony (Sb)	2024/06/15	93	80 - 120	98	80 - 120	<0.00060	mg/L	NC	20
B403398	Dissolved Arsenic (As)	2024/06/15	102	80 - 120	103	80 - 120	<0.00020	mg/L	6.9	20
B403398	Dissolved Beryllium (Be)	2024/06/15	91	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B403398	Dissolved Chromium (Cr)	2024/06/15	96	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B403398	Dissolved Cobalt (Co)	2024/06/15	97	80 - 120	101	80 - 120	<0.00030	mg/L	2.9	20
B403398	Dissolved Copper (Cu)	2024/06/15	96	80 - 120	102	80 - 120	<0.0010	mg/L	3.8	20
B403398	Dissolved Lead (Pb)	2024/06/15	95	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B403398	Dissolved Molybdenum (Mo)	2024/06/15	98	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B403398	Dissolved Nickel (Ni)	2024/06/15	98	80 - 120	101	80 - 120	<0.00050	mg/L	5.2	20
B403398	Dissolved Selenium (Se)	2024/06/15	101	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B403398	Dissolved Silver (Ag)	2024/06/15	94	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B403398	Dissolved Thallium (Tl)	2024/06/15	95	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B403398	Dissolved Tin (Sn)	2024/06/15	94	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B403398	Dissolved Titanium (Ti)	2024/06/15	94	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B403398	Dissolved Uranium (U)	2024/06/15	97	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20
B403398	Dissolved Vanadium (V)	2024/06/15	98	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B403398	Dissolved Zinc (Zn)	2024/06/15	NC	80 - 120	101	80 - 120	<0.0030	mg/L	3.4	20
B403856	Dissolved Barium (Ba)	2024/06/15	101	80 - 120	100	80 - 120	<0.010	mg/L	NC	20
B403856	Dissolved Boron (B)	2024/06/15	102	80 - 120	101	80 - 120	<0.020	mg/L	NC	20
B403856	Dissolved Calcium (Ca)	2024/06/15	98	80 - 120	96	80 - 120	<0.30	mg/L	0.053	20
B403856	Dissolved Iron (Fe)	2024/06/15	102	80 - 120	103	80 - 120	<0.060	mg/L	NC	20
B403856	Dissolved Lithium (Li)	2024/06/15	97	80 - 120	95	80 - 120	<0.020	mg/L	NC	20
B403856	Dissolved Magnesium (Mg)	2024/06/15	99	80 - 120	98	80 - 120	<0.20	mg/L	0.021	20
B403856	Dissolved Manganese (Mn)	2024/06/15	102	80 - 120	102	80 - 120	<0.0040	mg/L	NC	20
B403856	Dissolved Phosphorus (P)	2024/06/15	101	80 - 120	101	80 - 120	<0.10	mg/L	NC	20
B403856	Dissolved Potassium (K)	2024/06/15	97	80 - 120	96	80 - 120	<0.30	mg/L	1.7	20
B403856	Dissolved Silicon (Si)	2024/06/15	94	80 - 120	96	80 - 120	<0.50	mg/L	2.5	20
B403856	Dissolved Sodium (Na)	2024/06/15	98	80 - 120	97	80 - 120	<0.50	mg/L	0.49	20
B403856	Dissolved Strontium (Sr)	2024/06/15	98	80 - 120	98	80 - 120	<0.020	mg/L	NC	20
B403856	Dissolved Sulphur (S)	2024/06/15	105	80 - 120	95	80 - 120	<0.20	mg/L	3.4	20
B403860	Dissolved Barium (Ba)	2024/06/17	95	80 - 120	98	80 - 120	<0.010	mg/L	NC	20
B403860	Dissolved Boron (B)	2024/06/17	92	80 - 120	101	80 - 120	<0.020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B403860	Dissolved Calcium (Ca)	2024/06/17	91	80 - 120	96	80 - 120	<0.30	mg/L	2.2	20
B403860	Dissolved Iron (Fe)	2024/06/17	93	80 - 120	103	80 - 120	<0.060	mg/L	2.5	20
B403860	Dissolved Lithium (Li)	2024/06/17	92	80 - 120	96	80 - 120	<0.020	mg/L	NC	20
B403860	Dissolved Magnesium (Mg)	2024/06/17	89	80 - 120	99	80 - 120	<0.20	mg/L	0.91	20
B403860	Dissolved Manganese (Mn)	2024/06/17	96	80 - 120	102	80 - 120	<0.0040	mg/L	1.3	20
B403860	Dissolved Phosphorus (P)	2024/06/17	92	80 - 120	101	80 - 120	<0.10	mg/L	NC	20
B403860	Dissolved Potassium (K)	2024/06/17	90	80 - 120	97	80 - 120	<0.30	mg/L	0.58	20
B403860	Dissolved Silicon (Si)	2024/06/17	83	80 - 120	97	80 - 120	<0.50	mg/L	8.3	20
B403860	Dissolved Sodium (Na)	2024/06/17	92	80 - 120	97	80 - 120	<0.50	mg/L	2.2	20
B403860	Dissolved Strontium (Sr)	2024/06/17	95	80 - 120	96	80 - 120	<0.020	mg/L	1.5	20
B403860	Dissolved Sulphur (S)	2024/06/17	93	80 - 120	95	80 - 120	<0.20	mg/L	2.1	20
B404512	Total Suspended Solids	2024/06/18	108	80 - 120	100	80 - 120	<1.0	mg/L	7.6	20
B404521	Total Suspended Solids	2024/06/18	102	80 - 120	96	80 - 120	<1.0	mg/L	NC	20
B404671	Total Aluminum (Al)	2024/06/17	118	80 - 120	107	80 - 120	<0.0030	mg/L	8.5	20
B404671	Total Antimony (Sb)	2024/06/17	106	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20
B404671	Total Arsenic (As)	2024/06/17	110	80 - 120	110	80 - 120	<0.00020	mg/L	8.4	20
B404671	Total Beryllium (Be)	2024/06/17	118	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B404671	Total Chromium (Cr)	2024/06/17	110	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20
B404671	Total Cobalt (Co)	2024/06/17	108	80 - 120	105	80 - 120	<0.00030	mg/L	0.76	20
B404671	Total Copper (Cu)	2024/06/17	107	80 - 120	106	80 - 120	<0.0010	mg/L	6.0	20
B404671	Total Lead (Pb)	2024/06/17	108	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B404671	Total Molybdenum (Mo)	2024/06/17	115	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B404671	Total Nickel (Ni)	2024/06/17	108	80 - 120	105	80 - 120	<0.00050	mg/L	NC	20
B404671	Total Selenium (Se)	2024/06/17	105	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B404671	Total Silver (Ag)	2024/06/17	109	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20
B404671	Total Thallium (Tl)	2024/06/17	111	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B404671	Total Tin (Sn)	2024/06/17	110	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B404671	Total Titanium (Ti)	2024/06/17	109	80 - 120	104	80 - 120	<0.0010	mg/L	5.2	20
B404671	Total Uranium (U)	2024/06/17	112	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20
B404671	Total Vanadium (V)	2024/06/17	111	80 - 120	109	80 - 120	<0.0010	mg/L	NC	20
B404671	Total Zinc (Zn)	2024/06/17	105	80 - 120	108	80 - 120	<0.0030	mg/L	4.1	20
B404675	Total Barium (Ba)	2024/06/17	107	80 - 120	111	80 - 120	<0.010	mg/L	0.96	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B404675	Total Boron (B)	2024/06/17	103	80 - 120	104	80 - 120	<0.020	mg/L	NC	20
B404675	Total Calcium (Ca)	2024/06/17	NC	80 - 120	107	80 - 120	<0.30	mg/L	2.1	20
B404675	Total Iron (Fe)	2024/06/17	109	80 - 120	111	80 - 120	<0.060	mg/L	3.2	20
B404675	Total Lithium (Li)	2024/06/17	105	80 - 120	109	80 - 120	<0.020	mg/L	NC	20
B404675	Total Magnesium (Mg)	2024/06/17	101	80 - 120	105	80 - 120	<0.20	mg/L	2.5	20
B404675	Total Manganese (Mn)	2024/06/17	109	80 - 120	111	80 - 120	<0.0040	mg/L	2.0	20
B404675	Total Phosphorus (P)	2024/06/17	103	80 - 120	105	80 - 120	<0.10	mg/L	NC	20
B404675	Total Potassium (K)	2024/06/17	101	80 - 120	105	80 - 120	<0.30	mg/L	4.5	20
B404675	Total Silicon (Si)	2024/06/17	101	80 - 120	103	80 - 120	<0.50	mg/L	2.2	20
B404675	Total Sodium (Na)	2024/06/17	NC	80 - 120	107	80 - 120	<0.50	mg/L	1.9	20
B404675	Total Strontium (Sr)	2024/06/17	104	80 - 120	108	80 - 120	<0.020	mg/L	0	20
B404675	Total Sulphur (S)	2024/06/17	103	80 - 120	103	80 - 120	<0.20	mg/L	0.56	20
B405054	Total Aluminum (Al)	2024/06/17	99	80 - 120	100	80 - 120	<0.0030	mg/L	18	20
B405054	Total Antimony (Sb)	2024/06/17	99	80 - 120	100	80 - 120	<0.00060	mg/L	NC	20
B405054	Total Arsenic (As)	2024/06/17	106	80 - 120	111	80 - 120	<0.00020	mg/L	13	20
B405054	Total Beryllium (Be)	2024/06/17	98	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B405054	Total Chromium (Cr)	2024/06/17	102	80 - 120	107	80 - 120	<0.0010	mg/L	NC	20
B405054	Total Cobalt (Co)	2024/06/17	100	80 - 120	106	80 - 120	<0.00030	mg/L	NC	20
B405054	Total Copper (Cu)	2024/06/17	101	80 - 120	107	80 - 120	<0.0010	mg/L	17	20
B405054	Total Lead (Pb)	2024/06/17	98	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B405054	Total Molybdenum (Mo)	2024/06/17	100	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B405054	Total Nickel (Ni)	2024/06/17	101	80 - 120	107	80 - 120	<0.00050	mg/L	18	20
B405054	Total Selenium (Se)	2024/06/17	97	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B405054	Total Silver (Ag)	2024/06/17	100	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20
B405054	Total Thallium (Tl)	2024/06/17	100	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B405054	Total Tin (Sn)	2024/06/17	99	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B405054	Total Titanium (Ti)	2024/06/17	102	80 - 120	107	80 - 120	<0.0010	mg/L	18	20
B405054	Total Uranium (U)	2024/06/17	101	80 - 120	105	80 - 120	<0.00010	mg/L	NC	20
B405054	Total Vanadium (V)	2024/06/17	104	80 - 120	109	80 - 120	<0.0010	mg/L	NC	20
B405054	Total Zinc (Zn)	2024/06/17	NC	80 - 120	108	80 - 120	<0.0030	mg/L	18	20
B405070	Total Barium (Ba)	2024/06/17	101	80 - 120	103	80 - 120	<0.010	mg/L	NC	20
B405070	Total Boron (B)	2024/06/17	97	80 - 120	97	80 - 120	<0.020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B405070	Total Calcium (Ca)	2024/06/17	94	80 - 120	98	80 - 120	<0.30	mg/L	1.6	20
B405070	Total Iron (Fe)	2024/06/17	101	80 - 120	104	80 - 120	<0.060	mg/L	3.6	20
B405070	Total Lithium (Li)	2024/06/17	98	80 - 120	101	80 - 120	<0.020	mg/L	NC	20
B405070	Total Magnesium (Mg)	2024/06/17	93	80 - 120	97	80 - 120	<0.20	mg/L	0.87	20
B405070	Total Manganese (Mn)	2024/06/17	103	80 - 120	104	80 - 120	<0.0040	mg/L	0	20
B405070	Total Phosphorus (P)	2024/06/17	97	80 - 120	96	80 - 120	<0.10	mg/L	NC	20
B405070	Total Potassium (K)	2024/06/17	96	80 - 120	98	80 - 120	<0.30	mg/L	0.0065	20
B405070	Total Silicon (Si)	2024/06/17	95	80 - 120	95	80 - 120	<0.50	mg/L	0.44	20
B405070	Total Sodium (Na)	2024/06/17	97	80 - 120	99	80 - 120	<0.50	mg/L	2.5	20
B405070	Total Strontium (Sr)	2024/06/17	98	80 - 120	102	80 - 120	<0.020	mg/L	0.34	20
B405070	Total Sulphur (S)	2024/06/17	95	80 - 120	95	80 - 120	<0.20	mg/L	1.0	20
B405389	Dissolved Barium (Ba)	2024/06/17	90	80 - 120	107	80 - 120	<0.010	mg/L		
B405389	Dissolved Boron (B)	2024/06/17	99	80 - 120	100	80 - 120	<0.020	mg/L		
B405389	Dissolved Calcium (Ca)	2024/06/17	NC	80 - 120	102	80 - 120	<0.30	mg/L	3.1	20
B405389	Dissolved Iron (Fe)	2024/06/17	107	80 - 120	105	80 - 120	<0.060	mg/L	NC	20
B405389	Dissolved Lithium (Li)	2024/06/17	98	80 - 120	103	80 - 120	<0.020	mg/L		
B405389	Dissolved Magnesium (Mg)	2024/06/17	NC	80 - 120	100	80 - 120	<0.20	mg/L	3.4	20
B405389	Dissolved Manganese (Mn)	2024/06/17	NC	80 - 120	105	80 - 120	<0.0040	mg/L	0.25	20
B405389	Dissolved Phosphorus (P)	2024/06/17	105	80 - 120	102	80 - 120	<0.10	mg/L		
B405389	Dissolved Potassium (K)	2024/06/17	101	80 - 120	100	80 - 120	<0.30	mg/L	1.0	20
B405389	Dissolved Silicon (Si)	2024/06/17	NC	80 - 120	99	80 - 120	<0.50	mg/L		
B405389	Dissolved Sodium (Na)	2024/06/17	NC	80 - 120	103	80 - 120	<0.50	mg/L	0.21	20
B405389	Dissolved Strontium (Sr)	2024/06/17	NC	80 - 120	104	80 - 120	<0.020	mg/L		
B405389	Dissolved Sulphur (S)	2024/06/17	NC	80 - 120	97	80 - 120	<0.20	mg/L		
B406061	Dissolved Barium (Ba)	2024/06/18	102	80 - 120	100	80 - 120	<0.010	mg/L	NC	20
B406061	Dissolved Boron (B)	2024/06/18	99	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B406061	Dissolved Calcium (Ca)	2024/06/18	98	80 - 120	96	80 - 120	<0.30	mg/L	NC	20
B406061	Dissolved Iron (Fe)	2024/06/18	101	80 - 120	103	80 - 120	<0.060	mg/L	NC	20
B406061	Dissolved Lithium (Li)	2024/06/18	89	80 - 120	88	80 - 120	<0.020	mg/L	NC	20
B406061	Dissolved Magnesium (Mg)	2024/06/18	99	80 - 120	97	80 - 120	<0.20	mg/L	NC	20
B406061	Dissolved Manganese (Mn)	2024/06/18	102	80 - 120	102	80 - 120	<0.0040	mg/L	NC	20
B406061	Dissolved Phosphorus (P)	2024/06/18	105	80 - 120	105	80 - 120	<0.10	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B406061	Dissolved Potassium (K)	2024/06/18	98	80 - 120	95	80 - 120	<0.30	mg/L	NC	20
B406061	Dissolved Silicon (Si)	2024/06/18	94	80 - 120	95	80 - 120	<0.50	mg/L	NC	20
B406061	Dissolved Sodium (Na)	2024/06/18	98	80 - 120	100	80 - 120	<0.50	mg/L	NC	20
B406061	Dissolved Strontium (Sr)	2024/06/18	99	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B406061	Dissolved Sulphur (S)	2024/06/18	116	80 - 120	97	80 - 120	<0.20	mg/L	NC	20
B406224	Total Aluminum (Al)	2024/06/18	NC	80 - 120	91	80 - 120	<0.0030	mg/L	14	20
B406224	Total Antimony (Sb)	2024/06/18	97	80 - 120	89	80 - 120	<0.00060	mg/L	NC	20
B406224	Total Arsenic (As)	2024/06/18	101	80 - 120	97	80 - 120	<0.00020	mg/L	12	20
B406224	Total Beryllium (Be)	2024/06/18	97	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Chromium (Cr)	2024/06/18	92	80 - 120	88	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Cobalt (Co)	2024/06/18	92	80 - 120	89	80 - 120	<0.00030	mg/L	NC	20
B406224	Total Copper (Cu)	2024/06/18	91	80 - 120	90	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Lead (Pb)	2024/06/18	94	80 - 120	90	80 - 120	<0.00020	mg/L	NC	20
B406224	Total Molybdenum (Mo)	2024/06/18	99	80 - 120	91	80 - 120	<0.00020	mg/L	NC	20
B406224	Total Nickel (Ni)	2024/06/18	91	80 - 120	89	80 - 120	<0.00050	mg/L	NC	20
B406224	Total Selenium (Se)	2024/06/18	99	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B406224	Total Silver (Ag)	2024/06/18	97	80 - 120	91	80 - 120	<0.00010	mg/L	NC	20
B406224	Total Thallium (Tl)	2024/06/18	99	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B406224	Total Tin (Sn)	2024/06/18	100	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Titanium (Ti)	2024/06/18	92	80 - 120	89	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Uranium (U)	2024/06/18	100	80 - 120	93	80 - 120	<0.00010	mg/L	NC	20
B406224	Total Vanadium (V)	2024/06/18	94	80 - 120	90	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Zinc (Zn)	2024/06/18	98	80 - 120	97	80 - 120	<0.0030	mg/L	NC	20
B406232	Total Barium (Ba)	2024/06/18	106	80 - 120	102	80 - 120	<0.010	mg/L	2.5	20
B406232	Total Boron (B)	2024/06/18	100	80 - 120	100	80 - 120	<0.020	mg/L	NC	20
B406232	Total Calcium (Ca)	2024/06/18	101	80 - 120	94	80 - 120	<0.30	mg/L	6.0	20
B406232	Total Iron (Fe)	2024/06/18	95	80 - 120	90	80 - 120	<0.060	mg/L	NC	20
B406232	Total Lithium (Li)	2024/06/18	101	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B406232	Total Magnesium (Mg)	2024/06/18	104	80 - 120	97	80 - 120	<0.20	mg/L	7.7	20
B406232	Total Manganese (Mn)	2024/06/18	100	80 - 120	97	80 - 120	<0.0040	mg/L	1.2	20
B406232	Total Phosphorus (P)	2024/06/18	92	80 - 120	90	80 - 120	<0.10	mg/L	NC	20
B406232	Total Potassium (K)	2024/06/18	105	80 - 120	99	80 - 120	<0.30	mg/L	8.6	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B406232	Total Silicon (Si)	2024/06/18	92	80 - 120	92	80 - 120	<0.50	mg/L	1.9	20
B406232	Total Sodium (Na)	2024/06/18	101	80 - 120	95	80 - 120	<0.50	mg/L	5.4	20
B406232	Total Strontium (Sr)	2024/06/18	105	80 - 120	100	80 - 120	<0.020	mg/L	2.8	20
B406232	Total Sulphur (S)	2024/06/18	93	80 - 120	93	80 - 120	<0.20	mg/L	2.4	20
B406515	Dissolved Organic Carbon (C)	2024/06/18	107	80 - 120	98	80 - 120	<0.50	mg/L	13	20
B406642	Total Organic Carbon (C)	2024/06/18	107	80 - 120	105	80 - 120	<0.50	mg/L	NC	20
B406870	Dissolved Organic Carbon (C)	2024/06/18	111	80 - 120	103	80 - 120	<0.50	mg/L	0.88	20
B406898	Alkalinity (PP as CaCO3)	2024/06/19					<1.0	mg/L	NC	20
B406898	Alkalinity (Total as CaCO3)	2024/06/19			99	80 - 120	<1.0	mg/L	3.5	20
B406898	Bicarbonate (HCO3)	2024/06/19					<1.0	mg/L	3.5	20
B406898	Carbonate (CO3)	2024/06/19					<1.0	mg/L	NC	20
B406898	Hydroxide (OH)	2024/06/19					<1.0	mg/L	NC	20
B406901	pH	2024/06/19			100	97 - 103			1.9	N/A
B406940	Dissolved Organic Carbon (C)	2024/06/18	NC	80 - 120	106	80 - 120	<0.50	mg/L	6.5	20
B406963	Alkalinity (PP as CaCO3)	2024/06/19					<1.0	mg/L	NC	20
B406963	Alkalinity (Total as CaCO3)	2024/06/19			98	80 - 120	<1.0	mg/L	1.3	20
B406963	Bicarbonate (HCO3)	2024/06/19					<1.0	mg/L	1.3	20
B406963	Carbonate (CO3)	2024/06/19					<1.0	mg/L	NC	20
B406963	Hydroxide (OH)	2024/06/19					<1.0	mg/L	NC	20
B406969	pH	2024/06/19			100	97 - 103			1.2	N/A
B407081	Total Organic Carbon (C)	2024/06/18	102	80 - 120	105	80 - 120	<0.50	mg/L	0.19	20
B408120	Dissolved Lead (Pb)	2024/06/19	93	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B408120	Dissolved Molybdenum (Mo)	2024/06/19	107	80 - 120	101	80 - 120	<0.00020	mg/L	0.83	20
B408120	Dissolved Nickel (Ni)	2024/06/19	96	80 - 120	101	80 - 120	<0.00050	mg/L	4.4	20
B408788	Total Molybdenum (Mo)	2024/06/20	108	80 - 120	109	80 - 120	<0.00020	mg/L	3.3	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B409966	Sulphate (SO4)	2024/06/20	NC	80 - 120	95	80 - 120	<1.0	mg/L	0.053	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			725375
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#725375-01-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com, aruchcall@kgsgroup.com	Sampled By	RDD, JLR		

Regulatory Criteria: MWQSOG

Special Instructions: metals + nutrients preserved, not field filtered.

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Analysis Requested

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Alkalinity, pH	Sulphate	Carbon (DOC) - Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		SC-1	24/06/11	17:25	SW	N	N	✓	x	x	x	x	x	x	x	x	x	4	Analyze turbidity + DOC ASAP to meet hold times.
2		SB-1		14:35	SW	N	N	x	x	x	x	x	x	x	x	x	x	4	
3		SB-2		14:30	SW	N	N	x	x	x	x	y	x	x	x	x	x	4	
4		CB-1		14:40	SW	N	N	x	x	x	x	x	x	x	x	x	x	4	
5		CB-2		14:45	SW	N	N	x	x	x	x	x	x	x	x	y	y	4	
6		EB-1		14:50	SW	N	N	x	x	x	x	x	x	x	y	x	x	4	
7		EB-2		14:55	SW	N	N	y	x	x	x	x	x	x	x	y	x	4	
8		NB-1		15:25	SW	N	N	x	x	x	x	x	x	x	x	x	x	4	
9		NB-2		15:00	SW	N	N	x	x	x	x	x	x	x	x	x	x	4	
10		CLD	↓	15:30	SW	N	N	x	x	x	x	✓	x	x	x	x	x	4	

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

MCAL-2024-06-1227

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Dyck	24/06/13	11:15	Brooklyn Hiebert	24/06/13	1120			ACTR	[X] Yes [ ] No
			D.Choi Daniel Choi	24/06/14	914				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			725375
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#725375-02-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By	RED, JWR		

Regulatory Criteria: MWQSOG

Special Instructions: Metals + nutrients preserved, not Field filtered.

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10ºC) from time of sampling until delivery to Bureau Veritas

Analysis Requested

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-3 SFC	24/06/11	13:40	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze DOC + turbidity
2		CL-3 BTM		13:45	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	ASAP to meet hold times.
3		CL-7 SFC		13:50	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
4		CL-7 BTM		13:55	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
5		CL-8 SFC		13:30	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
6		CL-8 BTM		13:35	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
7		CL-2 SFC		14:00	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
8		CL-2 BTM		14:05	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
9		CL-4 SFC		13:20	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
10		CL-4 BTM		13:25	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number *(call lab for #)*

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Dyck	24/06/13	11:15	Brooklyn Hiebert	24/06/13	1120			ACTR	[X] Yes [ ] No
			Daniel Choi	24/06/14	814				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			725375
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#725375-03-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com, arochkall@kgsgroup.com	Sampled By	RED, JWR		

Regulatory Criteria: MWQSOG

Special Instructions: metals + nutrients preserved, not field filtered.

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10ºC) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT (X)
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-5 SFC	24/06/11	13:10	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze turbidity + DOC
2		CL-5 BTM		13:15	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	ASAP to meet hold times.
3		CL-6 SFC		13:00	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
4		CL-6 BTM		13:05	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
5		SW-106		PM	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
6		SW-107		PM	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
7		SW-108	↓	PM	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
8		TRIP BLANK	LAB	LAB	W	N	N	X	X	X	X	X	X	X	X	X	X	4	
9																			
10																			

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (ºC) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck	24/06/13	11:15	BM Brooklyn Hiebert	24/06/13	1120			ACTR	X Yes No
			D. Cheon	24/06/14	814				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

WINNIPEG ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 3	C#725375-01-01
Page 2 of 3	-02-01
Page 3 of 3	-03-01
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	

RECEIPT OBSERVATIONS:

	YES	NO				
CUSTODY SEAL			COOLER ID	1		
PRESENT		✓	TEMP	9.1 (1)	8.0 (2)	9.8 (3)
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID	2		
PRESENT		✓	TEMP	5.9 (1)	5.8 (2)	7.4 (3)
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID	3		
PRESENT		✓	TEMP	7.0 (1)	9.1 (2)	9.3 (3)
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID	4		
PRESENT		✓	TEMP	7.6 (1)	8.5 (2)	9.5 (3)
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID	5		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	6		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	7		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	8		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	9		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	10		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

BUREAU VERITAS JOB#

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
BH	Brooklyn Hiebert	2024/06/13	1120

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS:

BV JOB#:

CUSTODY SEAL PRESENT	✓		COOLER ID			
CUSTODY SEAL INTACT	✓		TEMP	3.2	2.3	1.0
ICE PRESENT	✓			1	2	3
CUSTODY SEAL PRESENT	✓		COOLER ID			
CUSTODY SEAL INTACT	✓		TEMP	6.5	7.2	4.9
ICE PRESENT	✓			1	2	3
CUSTODY SEAL PRESENT	✓		COOLER ID			
CUSTODY SEAL INTACT	✓		TEMP	10.0	9.2	8.9
ICE PRESENT	✓			1	2	3
CUSTODY SEAL PRESENT	✓		COOLER ID			
CUSTODY SEAL INTACT	✓		TEMP	8.4	7.3	4.9
ICE PRESENT	✓			1	2	3
CUSTODY SEAL PRESENT	✓		COOLER ID			
CUSTODY SEAL INTACT	✓		TEMP	3.1	2.9	0.9
ICE PRESENT	✓			1	2	3
CUSTODY SEAL PRESENT			COOLER ID			
CUSTODY SEAL INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL PRESENT			COOLER ID			
CUSTODY SEAL INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL PRESENT			COOLER ID			
CUSTODY SEAL INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL PRESENT			COOLER ID			
CUSTODY SEAL INTACT			TEMP			
ICE PRESENT				1	2	3
CUSTODY SEAL PRESENT			COOLER ID			
CUSTODY SEAL INTACT			TEMP			
ICE PRESENT				1	2	3

CUSTODY SEAL PRESENT		COOLER ID	
CUSTODY SEAL INTACT		TEMP	
ICE PRESENT			1 2 3
CUSTODY SEAL PRESENT		COOLER ID	
CUSTODY SEAL INTACT		TEMP	
ICE PRESENT			1 2 3
CUSTODY SEAL PRESENT		COOLER ID	
CUSTODY SEAL INTACT		TEMP	
ICE PRESENT			1 2 3
CUSTODY SEAL PRESENT		COOLER ID	
CUSTODY SEAL INTACT		TEMP	
ICE PRESENT			1 2 3
CUSTODY SEAL PRESENT		COOLER ID	
CUSTODY SEAL INTACT		TEMP	
ICE PRESENT			1 2 3
CUSTODY SEAL PRESENT		COOLER ID	
CUSTODY SEAL INTACT		TEMP	
ICE PRESENT			1 2 3
CUSTODY SEAL PRESENT		COOLER ID	
CUSTODY SEAL INTACT		TEMP	
ICE PRESENT			1 2 3
CUSTODY SEAL PRESENT		COOLER ID	
CUSTODY SEAL INTACT		TEMP	
ICE PRESENT			1 2 3
CUSTODY SEAL PRESENT		COOLER ID	
CUSTODY SEAL INTACT		TEMP	
ICE PRESENT			1 2 3
CUSTODY SEAL PRESENT		COOLER ID	
CUSTODY SEAL INTACT		TEMP	
ICE PRESENT			1 2 3

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
D.Choi	Daniel Choi	2024/06/14	814

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: C#728090-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/07/04
Report #: R3522664
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C447666
Received: 2024/06/26, 12:30

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	8	N/A	2024/06/30	AB SOP-00005	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	20	N/A	2024/07/01	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	27	N/A	2024/06/29		Auto Calc
Cadmium - low level CCME - Dissolved (1)	1	N/A	2024/07/04		Auto Calc
Cadmium - low level CCME (Total) (1)	12	N/A	2024/06/30		Auto Calc
Cadmium - low level CCME (Total) (1)	3	N/A	2024/07/02		Auto Calc
Cadmium - low level CCME (Total) (1)	13	N/A	2024/07/03		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	28	N/A	2024/06/28	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	27	N/A	2024/07/02	AB SOP-00087	MMCW 119 1996 m
Carbon (DOC) -Lab Filtered (1, 2)	1	N/A	2024/07/04	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	18	N/A	2024/06/29		Auto Calc
Hardness (1)	6	N/A	2024/06/30		Auto Calc
Hardness (1)	4	N/A	2024/07/02		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	15	N/A	2024/07/02	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	13	N/A	2024/07/04	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	28	N/A	2024/06/28	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	12	2024/06/29	2024/06/30	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	3	2024/06/30	2024/06/30	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	13	2024/07/02	2024/07/02	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	27	N/A	2024/06/28	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	1	N/A	2024/07/04	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	12	2024/06/29	2024/06/30	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	3	2024/06/30	2024/06/30	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	12	2024/07/02	2024/07/02	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	1	2024/07/02	2024/07/03	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	20	N/A	2024/06/29	AB SOP-00005	SM 24 4500-H+B m

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: C#728090-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/07/04
Report #: R3522664
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C447666
Received: 2024/06/26, 12:30

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
pH @25°C (1, 6)	8	N/A	2024/06/30	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	16	N/A	2024/07/02	AB SOP-00087	MMCW 119 1996 m
Carbon (Total Organic) (1, 7)	11	N/A	2024/07/03	AB SOP-00087	MMCW 119 1996 m
Carbon (Total Organic) (1, 7)	1	N/A	2024/07/04	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	18	2024/06/29	2024/07/02	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	10	2024/06/30	2024/07/02	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	28	N/A	2024/06/27	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: C#728090-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/07/04
Report #: R3522664
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C447666

Received: 2024/06/26, 12:30

(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(7) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD493		CQD494		CQD495		
Sampling Date		2024/06/25 10:50		2024/06/25 09:55		2024/06/25 09:50		
COC Number		C#728090-01-01		C#728090-01-01		C#728090-01-01		
	UNITS	SC-1	QC Batch	SB-1	QC Batch	SB-2	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.93	B418478	0.63	B418478	0.61	0.020	B418478
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.046	B420267	0.033	B420262	0.035	0.0030	B420262
Dissolved Antimony (Sb)	mg/L	<0.00060	B420267	<0.00060	B420262	<0.00060	0.00060	B420262
Dissolved Arsenic (As)	mg/L	0.00040	B420267	0.00029	B420262	0.00029	0.00020	B420262
Dissolved Barium (Ba)	mg/L	<0.010	B420656	<0.010	B420656	0.010	0.010	B420644
Dissolved Beryllium (Be)	mg/L	<0.0010	B420267	<0.0010	B420262	<0.0010	0.0010	B420262
Dissolved Boron (B)	mg/L	<0.020	B420656	<0.020	B420656	<0.020	0.020	B420644
Dissolved Calcium (Ca)	mg/L	8.1	B420656	18	B420656	20	0.30	B420644
Dissolved Chromium (Cr)	mg/L	<0.0010	B420267	<0.0010	B420262	<0.0010	0.0010	B420262
Dissolved Cobalt (Co)	mg/L	0.00033	B420267	0.00040	B420262	0.00050	0.00030	B420262
Dissolved Copper (Cu)	mg/L	0.040	B420267	0.027	B420262	0.024	0.0010	B420262
Dissolved Iron (Fe)	mg/L	0.074	B420656	0.28	B420656	0.35	0.060	B420644
Dissolved Lead (Pb)	mg/L	<0.00020	B420267	<0.00020	B420262	<0.00020	0.00020	B420262
Dissolved Lithium (Li)	mg/L	<0.020	B420656	<0.020	B420656	<0.020	0.020	B420644
Dissolved Magnesium (Mg)	mg/L	2.5	B420656	3.9	B420656	4.4	0.20	B420644
Dissolved Manganese (Mn)	mg/L	0.014	B420656	0.040	B420656	0.050	0.0040	B420644
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B420267	<0.00020	B420262	<0.00020	0.00020	B420262
Dissolved Nickel (Ni)	mg/L	0.00063	B420267	0.00095	B420262	0.0011	0.00050	B420262
Dissolved Phosphorus (P)	mg/L	<0.10	B420656	<0.10	B420656	<0.10	0.10	B420644
Dissolved Potassium (K)	mg/L	1.3	B420656	1.9	B420656	2.1	0.30	B420644
Dissolved Selenium (Se)	mg/L	<0.00020	B420267	<0.00020	B420262	<0.00020	0.00020	B420262
Dissolved Silicon (Si)	mg/L	0.92	B420656	0.87	B420656	0.93	0.50	B420644
Dissolved Silver (Ag)	mg/L	<0.00010	B420267	<0.00010	B420262	<0.00010	0.00010	B420262
Dissolved Sodium (Na)	mg/L	1.6	B420656	2.1	B420656	2.2	0.50	B420644
Dissolved Strontium (Sr)	mg/L	0.022	B420656	0.030	B420656	0.034	0.020	B420644
Dissolved Sulphur (S)	mg/L	2.3	B420656	12	B420656	16	0.20	B420644
Dissolved Thallium (Tl)	mg/L	<0.00020	B420267	<0.00020	B420262	<0.00020	0.00020	B420262
Dissolved Tin (Sn)	mg/L	<0.0010	B420267	<0.0010	B420262	<0.0010	0.0010	B420262
Dissolved Titanium (Ti)	mg/L	<0.0010	B420267	<0.0010	B420262	<0.0010	0.0010	B420262
Dissolved Uranium (U)	mg/L	<0.00010	B420267	<0.00010	B420262	<0.00010	0.00010	B420262
Dissolved Vanadium (V)	mg/L	<0.0010	B420267	<0.0010	B420262	<0.0010	0.0010	B420262
Dissolved Zinc (Zn)	mg/L	0.32	B420267	0.20	B420262	0.20	0.0030	B420262

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD496		CQD497		CQD498	CQD499		
Sampling Date		2024/06/25 10:00		2024/06/25 10:05		2024/06/25 10:10	2024/06/25 10:15		
COC Number		C#728090-01-01		C#728090-01-01		C#728090-01-01	C#728090-01-01		
	UNITS	CB-1	QC Batch	CB-2	QC Batch	EB-1	EB-2	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.60	B418478	0.61	B418478	1.2	1.3	0.020	B418478
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.036	B420267	0.035	B426114	0.044	0.042	0.0030	B420267
Dissolved Antimony (Sb)	mg/L	<0.00060	B420267	<0.00060	B426114	<0.00060	<0.00060	0.00060	B420267
Dissolved Arsenic (As)	mg/L	0.00030	B420267	0.00028	B426114	0.00024	0.00021	0.00020	B420267
Dissolved Barium (Ba)	mg/L	<0.010	B420659	<0.010	B420656	0.012	0.013	0.010	B420656
Dissolved Beryllium (Be)	mg/L	<0.0010	B420267	<0.0010	B426114	<0.0010	<0.0010	0.0010	B420267
Dissolved Boron (B)	mg/L	<0.020	B420659	<0.020	B420656	<0.020	<0.020	0.020	B420656
Dissolved Calcium (Ca)	mg/L	20	B420659	22	B420656	34	38	0.30	B420656
Dissolved Chromium (Cr)	mg/L	<0.0010	B420267	<0.0010	B426114	<0.0010	<0.0010	0.0010	B420267
Dissolved Cobalt (Co)	mg/L	0.00048	B420267	0.00057	B426114	0.0018	0.0022	0.00030	B420267
Dissolved Copper (Cu)	mg/L	0.025	B420267	0.023	B426114	0.032	0.029	0.0010	B420267
Dissolved Iron (Fe)	mg/L	0.47	B420659	0.38	B420656	0.29	0.19	0.060	B420656
Dissolved Lead (Pb)	mg/L	<0.00020	B420267	<0.00020	B426114	<0.00020	<0.00020	0.00020	B420267
Dissolved Lithium (Li)	mg/L	<0.020	B420659	<0.020	B420656	<0.020	<0.020	0.020	B420656
Dissolved Magnesium (Mg)	mg/L	4.5	B420659	4.5	B420656	6.3	6.8	0.20	B420656
Dissolved Manganese (Mn)	mg/L	0.057	B420659	0.060	B420656	0.13	0.15	0.0040	B420656
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B420267	<0.00020	B426114	<0.00020	<0.00020	0.00020	B420267
Dissolved Nickel (Ni)	mg/L	0.0013	B420267	0.0013	B426114	0.0025	0.0030	0.00050	B420267
Dissolved Phosphorus (P)	mg/L	<0.10	B420659	<0.10	B420656	<0.10	<0.10	0.10	B420656
Dissolved Potassium (K)	mg/L	2.1	B420659	2.2	B420656	3.0	3.3	0.30	B420656
Dissolved Selenium (Se)	mg/L	<0.00020	B420267	<0.00020	B426114	<0.00020	<0.00020	0.00020	B420267
Dissolved Silicon (Si)	mg/L	1.0	B420659	0.93	B420656	1.0	1.1	0.50	B420656
Dissolved Silver (Ag)	mg/L	<0.00010	B420267	<0.00010	B426114	<0.00010	<0.00010	0.00010	B420267
Dissolved Sodium (Na)	mg/L	2.1	B420659	2.2	B420656	2.7	2.9	0.50	B420656
Dissolved Strontium (Sr)	mg/L	0.032	B420659	0.034	B420656	0.046	0.050	0.020	B420656
Dissolved Sulphur (S)	mg/L	17	B420659	18	B420656	32	36	0.20	B420656
Dissolved Thallium (Tl)	mg/L	<0.00020	B420267	<0.00020	B426114	<0.00020	<0.00020	0.00020	B420267
Dissolved Tin (Sn)	mg/L	<0.0010	B420267	<0.0010	B426114	<0.0010	<0.0010	0.0010	B420267
Dissolved Titanium (Ti)	mg/L	<0.0010	B420267	<0.0010	B426114	<0.0010	<0.0010	0.0010	B420267
Dissolved Uranium (U)	mg/L	<0.00010	B420267	<0.00010	B426114	<0.00010	<0.00010	0.00010	B420267
Dissolved Vanadium (V)	mg/L	<0.0010	B420267	<0.0010	B426114	<0.0010	<0.0010	0.0010	B420267
Dissolved Zinc (Zn)	mg/L	0.19	B420267	0.19	B426114	0.34	0.38	0.0030	B420267

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD500		CQD501		CQD502	CQD503		
Sampling Date		2024/06/25 10:25		2024/06/25 10:20		2024/06/25 10:30	2024/06/25 09:00		
COC Number		C#728090-01-01		C#728090-01-01		C#728090-01-01	C#728090-01-01		
	UNITS	NB-1	QC Batch	NB-2	QC Batch	CLD	CL-3-SFC	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.81	B418478	0.76	B418478	0.76	0.51	0.020	B418478
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.041	B420262	0.038	B420262	0.044	0.035	0.0030	B420267
Dissolved Antimony (Sb)	mg/L	<0.00060	B420262	<0.00060	B420262	<0.00060	<0.00060	0.00060	B420267
Dissolved Arsenic (As)	mg/L	0.00030	B420262	0.00024	B420262	0.00027	0.00034	0.00020	B420267
Dissolved Barium (Ba)	mg/L	0.010	B420659	<0.010	B420656	0.010	<0.010	0.010	B420656
Dissolved Beryllium (Be)	mg/L	<0.0010	B420262	<0.0010	B420262	<0.0010	<0.0010	0.0010	B420267
Dissolved Boron (B)	mg/L	<0.020	B420659	<0.020	B420656	<0.020	<0.020	0.020	B420656
Dissolved Calcium (Ca)	mg/L	23	B420659	25	B420656	26	22	0.30	B420656
Dissolved Chromium (Cr)	mg/L	<0.0010	B420262	<0.0010	B420262	<0.0010	<0.0010	0.0010	B420267
Dissolved Cobalt (Co)	mg/L	0.00076	B420262	0.00076	B420262	0.00075	0.00036	0.00030	B420267
Dissolved Copper (Cu)	mg/L	0.029	B420262	0.027	B420262	0.028	0.019	0.0010	B420267
Dissolved Iron (Fe)	mg/L	0.57	B420659	0.40	B420656	0.45	0.33	0.060	B420656
Dissolved Lead (Pb)	mg/L	<0.00020	B420262	<0.00020	B420262	<0.00020	<0.00020	0.00020	B420267
Dissolved Lithium (Li)	mg/L	<0.020	B420659	<0.020	B420656	<0.020	<0.020	0.020	B420656
Dissolved Magnesium (Mg)	mg/L	5.3	B420659	4.9	B420656	5.1	4.5	0.20	B420656
Dissolved Manganese (Mn)	mg/L	0.079	B420659	0.048	B420656	0.062	0.041	0.0040	B420656
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B420262	<0.00020	B420262	<0.00020	<0.00020	0.00020	B420267
Dissolved Nickel (Ni)	mg/L	0.0014	B420262	0.0014	B420262	0.0015	0.0011	0.00050	B420267
Dissolved Phosphorus (P)	mg/L	<0.10	B420659	<0.10	B420656	<0.10	<0.10	0.10	B420656
Dissolved Potassium (K)	mg/L	2.1	B420659	2.5	B420656	2.5	2.3	0.30	B420656
Dissolved Selenium (Se)	mg/L	<0.00020	B420262	<0.00020	B420262	<0.00020	<0.00020	0.00020	B420267
Dissolved Silicon (Si)	mg/L	1.0	B420659	0.82	B420656	0.83	0.80	0.50	B420656
Dissolved Silver (Ag)	mg/L	<0.00010	B420262	<0.00010	B420262	<0.00010	<0.00010	0.00010	B420267
Dissolved Sodium (Na)	mg/L	2.0	B420659	2.3	B420656	2.4	2.3	0.50	B420656
Dissolved Strontium (Sr)	mg/L	0.036	B420659	0.037	B420656	0.038	0.035	0.020	B420656
Dissolved Sulphur (S)	mg/L	24	B420659	19	B420656	20	17	0.20	B420656
Dissolved Thallium (Tl)	mg/L	<0.00020	B420262	<0.00020	B420262	<0.00020	<0.00020	0.00020	B420267
Dissolved Tin (Sn)	mg/L	<0.0010	B420262	<0.0010	B420262	<0.0010	<0.0010	0.0010	B420267
Dissolved Titanium (Ti)	mg/L	<0.0010	B420262	<0.0010	B420262	<0.0010	<0.0010	0.0010	B420267
Dissolved Uranium (U)	mg/L	<0.00010	B420262	<0.00010	B420262	<0.00010	<0.00010	0.00010	B420267
Dissolved Vanadium (V)	mg/L	<0.0010	B420262	<0.0010	B420262	<0.0010	<0.0010	0.0010	B420267
Dissolved Zinc (Zn)	mg/L	0.24	B420262	0.23	B420262	0.24	0.15	0.0030	B420267

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD504			CQD504			CQD505		
Sampling Date		2024/06/25 09:05			2024/06/25 09:05			2024/06/25 09:10		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	CL-3-BTM	RDL	QC Batch	CL-3-BTM Lab-Dup	RDL	QC Batch	CL-7-SFC	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.51	0.020	B418478				0.24	0.020	B418478
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.042	0.0030	B420267	0.040	0.0030	B420267	0.024	0.0030	B420267
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B420267	<0.00060	0.00060	B420267	<0.00060	0.00060	B420267
Dissolved Arsenic (As)	mg/L	0.00026	0.00020	B420267	0.00030	0.00020	B420267	0.00034	0.00020	B420267
Dissolved Barium (Ba)	mg/L	0.010	0.010	B420644				0.011	0.010	B420659
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B420267	<0.0010	0.0010	B420267	<0.0010	0.0010	B420267
Dissolved Boron (B)	mg/L	<0.020	0.020	B420644				<0.020	0.020	B420659
Dissolved Calcium (Ca)	mg/L	22	0.30	B420644				15	0.30	B420659
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B420267	<0.0010	0.0010	B420267	<0.0010	0.0010	B420267
Dissolved Cobalt (Co)	mg/L	0.00039	0.00030	B420267	0.00038	0.00030	B420267	<0.00030	0.00030	B420267
Dissolved Copper (Cu)	mg/L	0.021	0.0010	B420267	0.021	0.0010	B420267	0.012	0.0010	B420267
Dissolved Iron (Fe)	mg/L	0.35	0.060	B420644				0.21	0.060	B420659
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B420267	<0.00020	0.00020	B420267	<0.00020	0.00020	B420267
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B420644				<0.020	0.020	B420659
Dissolved Magnesium (Mg)	mg/L	4.4	0.20	B420644				4.1	0.20	B420659
Dissolved Manganese (Mn)	mg/L	0.044	0.0040	B420644				0.018	0.0040	B420659
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B420267	<0.00020	0.00020	B420267	<0.00020	0.00020	B420267
Dissolved Nickel (Ni)	mg/L	0.0011	0.00050	B420267	0.0012	0.00050	B420267	0.00077	0.00050	B420267
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B420644				<0.10	0.10	B420659
Dissolved Potassium (K)	mg/L	2.1	0.30	B420644				1.6	0.30	B420659
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B420267	<0.00020	0.00020	B420267	<0.00020	0.00020	B420267
Dissolved Silicon (Si)	mg/L	0.88	0.50	B420644				0.87	0.50	B420659
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B420267	<0.00010	0.00010	B420267	<0.00010	0.00010	B420267
Dissolved Sodium (Na)	mg/L	2.3	0.50	B420644				1.9	0.50	B420659
Dissolved Strontium (Sr)	mg/L	0.035	0.020	B420644				0.031	0.020	B420659
Dissolved Sulphur (S)	mg/L	18	0.20	B420644				12	0.20	B420659
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B420267	<0.00020	0.00020	B420267	<0.00020	0.00020	B420267
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B420267	<0.0010	0.0010	B420267	<0.0010	0.0010	B420267
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B420267	<0.0010	0.0010	B420267	<0.0010	0.0010	B420267
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B420267	<0.00010	0.00010	B420267	<0.00010	0.00010	B420267
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B420267	<0.0010	0.0010	B420267	<0.0010	0.0010	B420267

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD504			CQD504			CQD505		
Sampling Date		2024/06/25 09:05			2024/06/25 09:05			2024/06/25 09:10		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	**CL-3-BTM**	**RDL**	**QC Batch**	**CL-3-BTM Lab-Dup**	**RDL**	**QC Batch**	**CL-7-SFC**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.17	0.0030	B420267	0.17	0.0030	B420267	0.078	0.0030	B420267

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD506		CQD507			CQD507		
Sampling Date		2024/06/25 09:15		2024/06/25 08:50			2024/06/25 08:50		
COC Number		C#728090-01-01		C#728090-01-01			C#728090-01-01		
	UNITS	CL-7-BTM	QC Batch	CL-8-SFC	RDL	QC Batch	CL-8-SFC Lab-Dup	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.28	B418478	0.25	0.020	B418478			
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.026	B420262	0.033	0.0030	B420267			
Dissolved Antimony (Sb)	mg/L	<0.00060	B420262	<0.00060	0.00060	B420267			
Dissolved Arsenic (As)	mg/L	0.00034	B420262	0.00038	0.00020	B420267			
Dissolved Barium (Ba)	mg/L	<0.010	B420656	0.012	0.010	B420656	<0.010	0.010	B420656
Dissolved Beryllium (Be)	mg/L	<0.0010	B420262	<0.0010	0.0010	B420267			
Dissolved Boron (B)	mg/L	<0.020	B420656	<0.020	0.020	B420656	<0.020	0.020	B420656
Dissolved Calcium (Ca)	mg/L	17	B420656	17	0.30	B420656	17	0.30	B420656
Dissolved Chromium (Cr)	mg/L	<0.0010	B420262	<0.0010	0.0010	B420267			
Dissolved Cobalt (Co)	mg/L	<0.00030	B420262	<0.00030	0.00030	B420267			
Dissolved Copper (Cu)	mg/L	0.013	B420262	0.013	0.0010	B420267			
Dissolved Iron (Fe)	mg/L	0.17	B420656	0.18	0.060	B420656	0.16	0.060	B420656
Dissolved Lead (Pb)	mg/L	<0.00020	B420262	<0.00020	0.00020	B420267			
Dissolved Lithium (Li)	mg/L	<0.020	B420656	<0.020	0.020	B420656	<0.020	0.020	B420656
Dissolved Magnesium (Mg)	mg/L	3.9	B420656	3.8	0.20	B420656	3.8	0.20	B420656
Dissolved Manganese (Mn)	mg/L	0.019	B420656	0.017	0.0040	B420656	0.016	0.0040	B420656
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B420262	<0.00020	0.00020	B420267			
Dissolved Nickel (Ni)	mg/L	0.00082	B420262	0.00080	0.00050	B420267			
Dissolved Phosphorus (P)	mg/L	<0.10	B420656	<0.10	0.10	B420656	<0.10	0.10	B420656
Dissolved Potassium (K)	mg/L	1.9	B420656	1.9	0.30	B420656	1.8	0.30	B420656
Dissolved Selenium (Se)	mg/L	<0.00020	B420262	<0.00020	0.00020	B420267			
Dissolved Silicon (Si)	mg/L	0.73	B420656	0.84	0.50	B420656	0.79	0.50	B420656
Dissolved Silver (Ag)	mg/L	<0.00010	B420262	<0.00010	0.00010	B420267			
Dissolved Sodium (Na)	mg/L	2.2	B420656	2.2	0.50	B420656	2.2	0.50	B420656
Dissolved Strontium (Sr)	mg/L	0.032	B420656	0.032	0.020	B420656	0.031	0.020	B420656
Dissolved Sulphur (S)	mg/L	12	B420656	12	0.20	B420656	12	0.20	B420656
Dissolved Thallium (Tl)	mg/L	<0.00020	B420262	<0.00020	0.00020	B420267			
Dissolved Tin (Sn)	mg/L	<0.0010	B420262	<0.0010	0.0010	B420267			
Dissolved Titanium (Ti)	mg/L	<0.0010	B420262	<0.0010	0.0010	B420267			
Dissolved Uranium (U)	mg/L	<0.00010	B420262	<0.00010	0.00010	B420267			
Dissolved Vanadium (V)	mg/L	<0.0010	B420262	<0.0010	0.0010	B420267			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD506		CQD507			CQD507		
Sampling Date		2024/06/25 09:15		2024/06/25 08:50			2024/06/25 08:50		
COC Number		C#728090-01-01		C#728090-01-01			C#728090-01-01		
	UNITS	**CL-7-BTM**	**QC Batch**	**CL-8-SFC**	**RDL**	**QC Batch**	**CL-8-SFC Lab-Dup**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.092	B420262	0.087	0.0030	B420267			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD508			CQD508			CQD509		
Sampling Date		2024/06/25 08:55			2024/06/25 08:55			2024/06/25 09:20		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	CL-8-BTM	RDL	QC Batch	CL-8-BTM Lab-Dup	RDL	QC Batch	CL-2-SFC	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.50	0.020	B418478				0.15	0.020	B418478
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.042	0.0030	B420262	0.040	0.0030	B420262	0.025	0.0030	B420267
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B420262	<0.00060	0.00060	B420262	<0.00060	0.00060	B420267
Dissolved Arsenic (As)	mg/L	0.00034	0.00020	B420262	0.00031	0.00020	B420262	0.00036	0.00020	B420267
Dissolved Barium (Ba)	mg/L	0.011	0.010	B420659				<0.010	0.010	B420644
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B420262	<0.0010	0.0010	B420262	<0.0010	0.0010	B420267
Dissolved Boron (B)	mg/L	0.020	0.020	B420659				<0.020	0.020	B420644
Dissolved Calcium (Ca)	mg/L	22	0.30	B420659				15	0.30	B420644
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B420262	<0.0010	0.0010	B420262	<0.0010	0.0010	B420267
Dissolved Cobalt (Co)	mg/L	0.00036	0.00030	B420262	0.00036	0.00030	B420262	<0.00030	0.00030	B420267
Dissolved Copper (Cu)	mg/L	0.020	0.0010	B420262	0.020	0.0010	B420262	0.0083	0.0010	B420267
Dissolved Iron (Fe)	mg/L	0.47	0.060	B420659				0.098	0.060	B420644
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B420262	<0.00020	0.00020	B420262	<0.00020	0.00020	B420267
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B420659				<0.020	0.020	B420644
Dissolved Magnesium (Mg)	mg/L	4.8	0.20	B420659				3.6	0.20	B420644
Dissolved Manganese (Mn)	mg/L	0.049	0.0040	B420659				0.0042	0.0040	B420644
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B420262	<0.00020	0.00020	B420262	<0.00020	0.00020	B420267
Dissolved Nickel (Ni)	mg/L	0.0012	0.00050	B420262	0.0012	0.00050	B420262	0.00063	0.00050	B420267
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B420659				<0.10	0.10	B420644
Dissolved Potassium (K)	mg/L	2.1	0.30	B420659				1.8	0.30	B420644
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B420262	<0.00020	0.00020	B420262	<0.00020	0.00020	B420267
Dissolved Silicon (Si)	mg/L	1.0	0.50	B420659				0.81	0.50	B420644
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B420262	<0.00010	0.00010	B420262	<0.00010	0.00010	B420267
Dissolved Sodium (Na)	mg/L	2.2	0.50	B420659				2.2	0.50	B420644
Dissolved Strontium (Sr)	mg/L	0.034	0.020	B420659				0.031	0.020	B420644
Dissolved Sulphur (S)	mg/L	19	0.20	B420659				10	0.20	B420644
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B420262	<0.00020	0.00020	B420262	<0.00020	0.00020	B420267
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B420262	<0.0010	0.0010	B420262	<0.0010	0.0010	B420267
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B420262	<0.0010	0.0010	B420262	<0.0010	0.0010	B420267
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B420262	<0.00010	0.00010	B420262	<0.00010	0.00010	B420267
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B420262	<0.0010	0.0010	B420262	<0.0010	0.0010	B420267

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD508			CQD508			CQD509		
Sampling Date		2024/06/25 08:55			2024/06/25 08:55			2024/06/25 09:20		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	**CL-8-BTM**	**RDL**	**QC Batch**	**CL-8-BTM Lab-Dup**	**RDL**	**QC Batch**	**CL-2-SFC**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.16	0.0030	B420262	0.15	0.0030	B420262	0.050	0.0030	B420267

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD510	CQD511		CQD512		CQD513		
Sampling Date		2024/06/25 09:25	2024/06/25 08:40		2024/06/25 08:45		2024/06/25 08:30		
COC Number		C#728090-01-01	C#728090-01-01		C#728090-01-01		C#728090-01-01		
	UNITS	CL-2-BTM	CL-4-SFC	QC Batch	CL-4-BTM	QC Batch	CL-5-SFC	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.10	0.22	B418478	0.090	B418478	0.17	0.020	B418661
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.020	0.029	B420267	0.022	B420267	0.034	0.0030	B420267
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B420267	<0.00060	B420267	<0.00060	0.00060	B420267
Dissolved Arsenic (As)	mg/L	0.00039	0.00034	B420267	0.00036	B420267	0.00038	0.00020	B420267
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	B420656	0.010	B420659	<0.010	0.010	B420656
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B420267	<0.0010	B420267	<0.0010	0.0010	B420267
Dissolved Boron (B)	mg/L	<0.020	<0.020	B420656	<0.020	B420659	<0.020	0.020	B420656
Dissolved Calcium (Ca)	mg/L	14	16	B420656	13	B420659	14	0.30	B420656
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B420267	<0.0010	B420267	<0.0010	0.0010	B420267
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B420267	<0.00030	B420267	<0.00030	0.00030	B420267
Dissolved Copper (Cu)	mg/L	0.0069	0.011	B420267	0.0061	B420267	0.010	0.0010	B420267
Dissolved Iron (Fe)	mg/L	0.13	0.14	B420656	0.27	B420659	0.11	0.060	B420656
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B420267	<0.00020	B420267	<0.00020	0.00020	B420267
Dissolved Lithium (Li)	mg/L	<0.020	0.025	B420656	<0.020	B420659	<0.020	0.020	B420656
Dissolved Magnesium (Mg)	mg/L	3.4	3.7	B420656	3.7	B420659	3.5	0.20	B420656
Dissolved Manganese (Mn)	mg/L	0.0043	0.013	B420656	0.020	B420659	0.0091	0.0040	B420656
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B420267	<0.00020	B420267	<0.00020	0.00020	B423129
Dissolved Nickel (Ni)	mg/L	0.00068	0.00071	B420267	0.00054	B420267	0.00074	0.00050	B420267
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B420656	<0.10	B420659	<0.10	0.10	B420656
Dissolved Potassium (K)	mg/L	1.7	1.8	B420656	1.7	B420659	1.7	0.30	B420656
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B420267	<0.00020	B420267	<0.00020	0.00020	B420267
Dissolved Silicon (Si)	mg/L	0.75	0.76	B420656	0.92	B420659	0.71	0.50	B420656
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B420267	<0.00010	B420267	<0.00010	0.00010	B420267
Dissolved Sodium (Na)	mg/L	2.1	2.1	B420656	2.0	B420659	2.1	0.50	B420656
Dissolved Strontium (Sr)	mg/L	0.030	0.031	B420656	0.030	B420659	0.030	0.020	B420656
Dissolved Sulphur (S)	mg/L	8.3	11	B420656	8.8	B420659	8.3	0.20	B420656
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B420267	<0.00020	B420267	<0.00020	0.00020	B420267
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B420267	<0.0010	B420267	<0.0010	0.0010	B420267
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B420267	<0.0010	B420267	<0.0010	0.0010	B420267
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B420267	<0.00010	B420267	<0.00010	0.00010	B420267
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B420267	<0.0010	B420267	<0.0010	0.0010	B420267
Dissolved Zinc (Zn)	mg/L	0.040	0.073	B420267	0.035	B420267	0.061	0.0030	B420267

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD514	CQD515	CQD516		CQD517		
Sampling Date		2024/06/25 08:35	2024/06/25 08:20	2024/06/25 08:25		2024/06/25		
COC Number		C#728090-01-01	C#728090-01-01	C#728090-01-01		C#728090-01-01		
	UNITS	CL-5-BTM	CL-6-SFC	CL-6-BTM	QC Batch	SW-110	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.095	0.11	0.093	B418661	0.089	0.020	B418661
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.024	0.033	0.032	B420267	0.024	0.0030	B420262
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	B420267	<0.00060	0.00060	B420262
Dissolved Arsenic (As)	mg/L	0.00042	0.00044	0.00049	B420267	0.00044	0.00020	B420262
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	<0.010	B420656	<0.010	0.010	B420656
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	B420267	<0.0010	0.0010	B420262
Dissolved Boron (B)	mg/L	<0.020	<0.020	<0.020	B420656	<0.020	0.020	B420656
Dissolved Calcium (Ca)	mg/L	14	13	13	B420656	12	0.30	B420656
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	B420267	<0.0010	0.0010	B420262
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	B420267	<0.00030	0.00030	B420262
Dissolved Copper (Cu)	mg/L	0.0076	0.0078	0.0068	B420267	0.0066	0.0010	B420262
Dissolved Iron (Fe)	mg/L	0.14	0.080	0.099	B420656	0.066	0.060	B420656
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	B420267	<0.00020	0.00020	B420262
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	B420656	<0.020	0.020	B420656
Dissolved Magnesium (Mg)	mg/L	3.4	3.5	3.4	B420656	3.1	0.20	B420656
Dissolved Manganese (Mn)	mg/L	0.011	0.0061	0.0062	B420656	0.0048	0.0040	B420656
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	B420267	<0.00020	0.00020	B420262
Dissolved Nickel (Ni)	mg/L	0.00056	0.00063	0.00058	B420267	0.00054	0.00050	B420262
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	B420656	<0.10	0.10	B420656
Dissolved Potassium (K)	mg/L	1.7	1.7	1.6	B420656	1.5	0.30	B420656
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	B420267	<0.00020	0.00020	B420262
Dissolved Silicon (Si)	mg/L	0.81	0.67	0.75	B420656	0.62	0.50	B420656
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	B420267	<0.00010	0.00010	B420262
Dissolved Sodium (Na)	mg/L	2.1	2.1	2.2	B420656	2.1	0.50	B420656
Dissolved Strontium (Sr)	mg/L	0.030	0.029	0.029	B420656	0.028	0.020	B420656
Dissolved Sulphur (S)	mg/L	8.0	6.3	7.0	B420656	6.1	0.20	B420656
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	B420267	<0.00020	0.00020	B420262
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	B420267	<0.0010	0.0010	B420262
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	<0.0010	B420267	<0.0010	0.0010	B420262
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	B420267	<0.00010	0.00010	B420262
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	B420267	<0.0010	0.0010	B420262
Dissolved Zinc (Zn)	mg/L	0.038	0.041	0.036	B420267	0.035	0.0030	B420262

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD518		CQD519			CQD519		
Sampling Date		2024/06/25		2024/06/25			2024/06/25		
COC Number		C#728090-01-01		C#728090-01-01			C#728090-01-01		
	UNITS	SW-111	QC Batch	SW-112	RDL	QC Batch	SW-112 Lab-Dup	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.21	B418661	0.63	0.020	B418661			
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.024	B420262	0.036	0.0030	B420267			
Dissolved Antimony (Sb)	mg/L	<0.00060	B420262	<0.00060	0.00060	B420267			
Dissolved Arsenic (As)	mg/L	0.00041	B420262	0.00030	0.00020	B420267			
Dissolved Barium (Ba)	mg/L	0.010	B420659	0.011	0.010	B420659	<0.010	0.010	B420659
Dissolved Beryllium (Be)	mg/L	<0.0010	B420262	<0.0010	0.0010	B420267			
Dissolved Boron (B)	mg/L	<0.020	B420659	<0.020	0.020	B420659	<0.020	0.020	B420659
Dissolved Calcium (Ca)	mg/L	17	B420659	20	0.30	B420659	20	0.30	B420659
Dissolved Chromium (Cr)	mg/L	<0.0010	B420262	<0.0010	0.0010	B420267			
Dissolved Cobalt (Co)	mg/L	<0.00030	B420262	0.00048	0.00030	B420267			
Dissolved Copper (Cu)	mg/L	0.011	B420262	0.025	0.0010	B420267			
Dissolved Iron (Fe)	mg/L	0.19	B420659	0.51	0.060	B420659	0.49	0.060	B420659
Dissolved Lead (Pb)	mg/L	<0.00020	B420262	<0.00020	0.00020	B420267			
Dissolved Lithium (Li)	mg/L	<0.020	B420659	<0.020	0.020	B420659	<0.020	0.020	B420659
Dissolved Magnesium (Mg)	mg/L	4.1	B420659	4.6	0.20	B420659	4.5	0.20	B420659
Dissolved Manganese (Mn)	mg/L	0.016	B420659	0.062	0.0040	B420659	0.061	0.0040	B420659
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B420262	<0.00020	0.00020	B420267			
Dissolved Nickel (Ni)	mg/L	0.00066	B420262	0.0012	0.00050	B420267			
Dissolved Phosphorus (P)	mg/L	<0.10	B420659	<0.10	0.10	B420659	<0.10	0.10	B420659
Dissolved Potassium (K)	mg/L	1.8	B420659	2.0	0.30	B420659	2.0	0.30	B420659
Dissolved Selenium (Se)	mg/L	<0.00020	B420262	<0.00020	0.00020	B420267			
Dissolved Silicon (Si)	mg/L	0.85	B420659	1.1	0.50	B420659	1.0	0.50	B420659
Dissolved Silver (Ag)	mg/L	<0.00010	B420262	<0.00010	0.00010	B420267			
Dissolved Sodium (Na)	mg/L	2.1	B420659	2.0	0.50	B420659	2.0	0.50	B420659
Dissolved Strontium (Sr)	mg/L	0.031	B420659	0.032	0.020	B420659	0.032	0.020	B420659
Dissolved Sulphur (S)	mg/L	13	B420659	17	0.20	B420659	17	0.20	B420659
Dissolved Thallium (Tl)	mg/L	<0.00020	B420262	<0.00020	0.00020	B420267			
Dissolved Tin (Sn)	mg/L	<0.0010	B420262	<0.0010	0.0010	B420267			
Dissolved Titanium (Ti)	mg/L	<0.0010	B420262	<0.0010	0.0010	B420267			
Dissolved Uranium (U)	mg/L	<0.00010	B420262	<0.00010	0.00010	B420267			
Dissolved Vanadium (V)	mg/L	<0.0010	B420262	<0.0010	0.0010	B420267			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD518		CQD519			CQD519		
Sampling Date		2024/06/25		2024/06/25			2024/06/25		
COC Number		C#728090-01-01		C#728090-01-01			C#728090-01-01		
	UNITS	**SW-111**	**QC Batch**	**SW-112**	**RDL**	**QC Batch**	**SW-112 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.074	B420262	0.20	0.0030	B420267			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CQD520		
Sampling Date		2024/06/25		
COC Number		C#728090-01-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Elements				
Dissolved Cadmium (Cd)	ug/L	<0.020	0.020	B418661
Lab Filtered Elements				
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	B420267
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B420267
Dissolved Arsenic (As)	mg/L	<0.00020	0.00020	B420267
Dissolved Barium (Ba)	mg/L	<0.010	0.010	B420656
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B420267
Dissolved Boron (B)	mg/L	<0.020	0.020	B420656
Dissolved Calcium (Ca)	mg/L	<0.30	0.30	B420656
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B420267
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B420267
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	B420267
Dissolved Iron (Fe)	mg/L	<0.060	0.060	B420656
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B420267
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B420656
Dissolved Magnesium (Mg)	mg/L	<0.20	0.20	B420656
Dissolved Manganese (Mn)	mg/L	<0.0040	0.0040	B420656
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B420267
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B420267
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B420656
Dissolved Potassium (K)	mg/L	<0.30	0.30	B420656
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B420267
Dissolved Silicon (Si)	mg/L	<0.50	0.50	B420656
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B420267
Dissolved Sodium (Na)	mg/L	<0.50	0.50	B420656
Dissolved Strontium (Sr)	mg/L	<0.020	0.020	B420656
Dissolved Sulphur (S)	mg/L	<0.20	0.20	B420656
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B420267
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B420267
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B420267
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B420267
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B420267
Dissolved Zinc (Zn)	mg/L	<0.0030	0.0030	B420267
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CQD493			CQD493			CQD494		
Sampling Date		2024/06/25 10:50			2024/06/25 10:50			2024/06/25 09:55		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	SC-1	RDL	QC Batch	SC-1 Lab-Dup	RDL	QC Batch	SB-1	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L	0.92	0.020	B418662				0.73	0.020	B418662
Total Aluminum (Al)	mg/L	0.12	0.0030	B422127	0.11	0.0030	B422127	0.088	0.0030	B422127
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B422127	<0.00060	0.00060	B422127	<0.00060	0.00060	B422127
Total Arsenic (As)	mg/L	0.00038	0.00020	B422127	0.00045	0.00020	B422127	0.00040	0.00020	B422127
Total Barium (Ba)	mg/L	<0.010	0.010	B422124	<0.010	0.010	B422124	<0.010	0.010	B422124
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B422127	<0.0010	0.0010	B422127	<0.0010	0.0010	B422127
Total Boron (B)	mg/L	<0.020	0.020	B422124	<0.020	0.020	B422124	<0.020	0.020	B422124
Total Calcium (Ca)	mg/L	8.8	0.30	B422124	8.4	0.30	B422124	20	0.30	B422124
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B422127	<0.0010	0.0010	B422127	<0.0010	0.0010	B422127
Total Cobalt (Co)	mg/L	0.00045	0.00030	B422127	0.00044	0.00030	B422127	0.00079	0.00030	B422127
Total Copper (Cu)	mg/L	0.044	0.0010	B422127	0.042	0.0010	B422127	0.037	0.0010	B422127
Total Iron (Fe)	mg/L	0.21	0.060	B422124	0.20	0.060	B422124	0.74	0.060	B422124
Total Lead (Pb)	mg/L	<0.00020	0.00020	B422127	<0.00020	0.00020	B422127	<0.00020	0.00020	B422127
Total Lithium (Li)	mg/L	<0.020	0.020	B422124	<0.020	0.020	B422124	<0.020	0.020	B422124
Total Magnesium (Mg)	mg/L	2.8	0.20	B422124	2.7	0.20	B422124	4.4	0.20	B422124
Total Manganese (Mn)	mg/L	0.025	0.0040	B422124	0.024	0.0040	B422124	0.061	0.0040	B422124
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B422127	<0.00020	0.00020	B422127	<0.00020	0.00020	B422127
Total Nickel (Ni)	mg/L	0.00087	0.00050	B422127	0.00079	0.00050	B422127	0.0013	0.00050	B422127
Total Phosphorus (P)	mg/L	<0.10	0.10	B422124	<0.10	0.10	B422124	<0.10	0.10	B422124
Total Potassium (K)	mg/L	1.3	0.30	B422124	1.3	0.30	B422124	2.0	0.30	B422124
Total Selenium (Se)	mg/L	<0.00020	0.00020	B422127	<0.00020	0.00020	B422127	<0.00020	0.00020	B422127
Total Silicon (Si)	mg/L	1.2	0.50	B422124	1.2	0.50	B422124	1.2	0.50	B422124
Total Silver (Ag)	mg/L	<0.00010	0.00010	B422127	<0.00010	0.00010	B422127	<0.00010	0.00010	B422127
Total Sodium (Na)	mg/L	1.6	0.50	B422124	1.6	0.50	B422124	2.1	0.50	B422124
Total Strontium (Sr)	mg/L	0.021	0.020	B422124	0.021	0.020	B422124	0.031	0.020	B422124
Total Sulphur (S)	mg/L	2.5	0.20	B422124	2.4	0.20	B422124	15	0.20	B422124
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B422127	<0.00020	0.00020	B422127	<0.00020	0.00020	B422127
Total Tin (Sn)	mg/L	<0.0010	0.0010	B422127	<0.0010	0.0010	B422127	<0.0010	0.0010	B422127
Total Titanium (Ti)	mg/L	0.0049	0.0010	B422127	0.0038	0.0010	B422127	0.0026	0.0010	B422127
Total Uranium (U)	mg/L	<0.00010	0.00010	B422127	<0.00010	0.00010	B422127	<0.00010	0.00010	B422127
Total Vanadium (V)	mg/L	<0.0010	0.0010	B422127	<0.0010	0.0010	B422127	<0.0010	0.0010	B422127
Total Zinc (Zn)	mg/L	0.30	0.0030	B422127	0.29	0.0030	B422127	0.23	0.0030	B422127

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CQD495		CQD496	CQD497	CQD498		
Sampling Date		2024/06/25 09:50		2024/06/25 10:00	2024/06/25 10:05	2024/06/25 10:10		
COC Number		C#728090-01-01		C#728090-01-01	C#728090-01-01	C#728090-01-01		
	UNITS	SB-2	QC Batch	CB-1	CB-2	EB-1	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.80	B418662	0.63	0.78	1.4	0.020	B418662
Total Aluminum (Al)	mg/L	0.12	B423007	0.087	0.12	0.19	0.0030	B422127
Total Antimony (Sb)	mg/L	<0.00060	B423007	<0.00060	<0.00060	<0.00060	0.00060	B422127
Total Arsenic (As)	mg/L	0.00039	B423007	0.00032	0.00034	0.00030	0.00020	B422127
Total Barium (Ba)	mg/L	<0.010	B423034	0.010	0.010	0.014	0.010	B422124
Total Beryllium (Be)	mg/L	<0.0010	B423007	<0.0010	<0.0010	<0.0010	0.0010	B422127
Total Boron (B)	mg/L	<0.020	B423034	<0.020	<0.020	<0.020	0.020	B422124
Total Calcium (Ca)	mg/L	19	B423034	21	24	39	0.30	B422124
Total Chromium (Cr)	mg/L	0.0040	B423007	<0.0010	<0.0010	<0.0010	0.0010	B422127
Total Cobalt (Co)	mg/L	0.00097	B423007	0.00070	0.0010	0.0022	0.00030	B422127
Total Copper (Cu)	mg/L	0.036	B423007	0.031	0.034	0.051	0.0010	B422127
Total Iron (Fe)	mg/L	0.78	B423034	0.80	0.92	1.0	0.060	B422124
Total Lead (Pb)	mg/L	<0.00020	B423007	<0.00020	<0.00020	<0.00020	0.00020	B422127
Total Lithium (Li)	mg/L	<0.020	B423034	<0.020	<0.020	<0.020	0.020	B422124
Total Magnesium (Mg)	mg/L	4.0	B423034	4.5	5.0	7.2	0.20	B422124
Total Manganese (Mn)	mg/L	0.061	B423034	0.066	0.079	0.16	0.0040	B422124
Total Molybdenum (Mo)	mg/L	0.00022	B423007	<0.00020	<0.00020	<0.00020	0.00020	B422127
Total Nickel (Ni)	mg/L	0.0036	B423007	0.0015	0.0017	0.0029	0.00050	B422127
Total Phosphorus (P)	mg/L	<0.10	B423034	<0.10	<0.10	<0.10	0.10	B422124
Total Potassium (K)	mg/L	2.0	B423034	2.1	2.4	3.3	0.30	B422124
Total Selenium (Se)	mg/L	<0.00020	B423007	<0.00020	<0.00020	<0.00020	0.00020	B422127
Total Silicon (Si)	mg/L	1.0	B423034	1.1	1.2	1.5	0.50	B422124
Total Silver (Ag)	mg/L	<0.00010	B423007	<0.00010	<0.00010	<0.00010	0.00010	B422127
Total Sodium (Na)	mg/L	2.0	B423034	2.1	2.2	2.9	0.50	B422124
Total Strontium (Sr)	mg/L	0.026	B423034	0.031	0.034	0.047	0.020	B422124
Total Sulphur (S)	mg/L	15	B423034	17	20	37	0.20	B422124
Total Thallium (Tl)	mg/L	<0.00020	B423007	<0.00020	<0.00020	<0.00020	0.00020	B422127
Total Tin (Sn)	mg/L	<0.0010	B423007	<0.0010	<0.0010	<0.0010	0.0010	B422127
Total Titanium (Ti)	mg/L	0.0027	B423007	0.0020	0.0042	0.0044	0.0010	B422127
Total Uranium (U)	mg/L	<0.00010	B423007	<0.00010	<0.00010	<0.00010	0.00010	B422127
Total Vanadium (V)	mg/L	<0.0010	B423007	<0.0010	<0.0010	<0.0010	0.0010	B422127
Total Zinc (Zn)	mg/L	0.24	B423007	0.20	0.24	0.38	0.0030	B422127

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CQD499	CQD500	CQD501		CQD502		
Sampling Date		2024/06/25 10:15	2024/06/25 10:25	2024/06/25 10:20		2024/06/25 10:30		
COC Number		C#728090-01-01	C#728090-01-01	C#728090-01-01		C#728090-01-01		
	UNITS	EB-2	NB-1	NB-2	QC Batch	CLD	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	2.2	1.1	0.93	B418662	0.89	0.020	B418662
Total Aluminum (Al)	mg/L	0.32	0.16	0.12	B422127	0.15	0.0030	B423007
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	B422127	<0.00060	0.00060	B423007
Total Arsenic (As)	mg/L	0.00047	0.00036	0.00038	B422127	0.00034	0.00020	B423007
Total Barium (Ba)	mg/L	0.012	0.011	0.010	B422124	<0.010	0.010	B423034
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	B422127	<0.0010	0.0010	B423007
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	B422124	<0.020	0.020	B423034
Total Calcium (Ca)	mg/L	36	28	25	B422124	24	0.30	B423034
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	B422127	<0.0010	0.0010	B423007
Total Cobalt (Co)	mg/L	0.0038	0.0013	0.0011	B422127	0.0010	0.00030	B423007
Total Copper (Cu)	mg/L	0.071	0.051	0.043	B422127	0.040	0.0010	B423007
Total Iron (Fe)	mg/L	0.82	1.1	0.94	B422124	0.99	0.060	B423034
Total Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	B422127	<0.00020	0.00020	B423007
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	B422124	<0.020	0.020	B423034
Total Magnesium (Mg)	mg/L	6.6	5.5	4.9	B422124	4.6	0.20	B423034
Total Manganese (Mn)	mg/L	0.16	0.089	0.078	B422124	0.076	0.0040	B423034
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	B422127	<0.00020	0.00020	B423007
Total Nickel (Ni)	mg/L	0.0050	0.0022	0.0019	B422127	0.0017	0.00050	B423007
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	B422124	<0.10	0.10	B423034
Total Potassium (K)	mg/L	3.0	2.6	2.3	B422124	2.3	0.30	B423034
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	B422127	<0.00020	0.00020	B423007
Total Silicon (Si)	mg/L	1.3	1.3	1.1	B422124	1.0	0.50	B423034
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	B422127	<0.00010	0.00010	B423007
Total Sodium (Na)	mg/L	2.6	2.4	2.2	B422124	2.1	0.50	B423034
Total Strontium (Sr)	mg/L	0.043	0.038	0.033	B422124	0.029	0.020	B423034
Total Sulphur (S)	mg/L	38	25	22	B422124	22	0.20	B423034
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	B422127	<0.00020	0.00020	B423007
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	B422127	<0.0010	0.0010	B423007
Total Titanium (Ti)	mg/L	0.0088	0.0044	0.0026	B422127	0.0032	0.0010	B423007
Total Uranium (U)	mg/L	0.00012	<0.00010	<0.00010	B422127	<0.00010	0.00010	B423007
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	B422127	<0.0010	0.0010	B423007
Total Zinc (Zn)	mg/L	0.60	0.34	0.29	B422127	0.27	0.0030	B423007

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CQD503		CQD504		CQD505		
Sampling Date		2024/06/25 09:00		2024/06/25 09:05		2024/06/25 09:10		
COC Number		C#728090-01-01		C#728090-01-01		C#728090-01-01		
	UNITS	CL-3-SFC	QC Batch	CL-3-BTM	QC Batch	CL-7-SFC	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.67	B418662	0.60	B418662	0.24	0.020	B418662
Total Aluminum (Al)	mg/L	0.19	B422557	0.12	B423007	0.063	0.0030	B422127
Total Antimony (Sb)	mg/L	<0.00060	B422557	<0.00060	B423007	<0.00060	0.00060	B422127
Total Arsenic (As)	mg/L	0.00041	B422557	0.00038	B423007	0.00035	0.00020	B422127
Total Barium (Ba)	mg/L	0.010	B422559	<0.010	B423034	<0.010	0.010	B422124
Total Beryllium (Be)	mg/L	<0.0010	B422557	<0.0010	B423007	<0.0010	0.0010	B422127
Total Boron (B)	mg/L	<0.020	B422559	<0.020	B423034	<0.020	0.020	B422124
Total Calcium (Ca)	mg/L	24	B422559	21	B423034	17	0.30	B422124
Total Chromium (Cr)	mg/L	<0.0010	B422557	<0.0010	B423007	<0.0010	0.0010	B422127
Total Cobalt (Co)	mg/L	0.00072	B422557	0.00071	B423007	<0.00030	0.00030	B422127
Total Copper (Cu)	mg/L	0.029	B422557	0.029	B423007	0.014	0.0010	B422127
Total Iron (Fe)	mg/L	0.83	B422559	0.80	B423034	0.40	0.060	B422124
Total Lead (Pb)	mg/L	<0.00020	B422557	<0.00020	B423007	<0.00020	0.00020	B422127
Total Lithium (Li)	mg/L	0.023	B422559	<0.020	B423034	<0.020	0.020	B422124
Total Magnesium (Mg)	mg/L	4.9	B422559	4.3	B423034	3.9	0.20	B422124
Total Manganese (Mn)	mg/L	0.063	B422559	0.054	B423034	0.026	0.0040	B422124
Total Molybdenum (Mo)	mg/L	<0.00020	B422557	<0.00020	B423007	<0.00020	0.00020	B422127
Total Nickel (Ni)	mg/L	0.0014	B422557	0.0016	B423007	0.00081	0.00050	B422127
Total Phosphorus (P)	mg/L	<0.10	B422559	<0.10	B423034	<0.10	0.10	B422124
Total Potassium (K)	mg/L	2.4	B422559	2.1	B423034	1.8	0.30	B422124
Total Selenium (Se)	mg/L	<0.00020	B422557	<0.00020	B423007	<0.00020	0.00020	B422127
Total Silicon (Si)	mg/L	1.1	B422559	0.97	B423034	0.95	0.50	B422124
Total Silver (Ag)	mg/L	<0.00010	B422557	<0.00010	B423007	<0.00010	0.00010	B422127
Total Sodium (Na)	mg/L	2.4	B422559	2.1	B423034	2.1	0.50	B422124
Total Strontium (Sr)	mg/L	0.033	B422559	0.028	B423034	0.029	0.020	B422124
Total Sulphur (S)	mg/L	18	B422559	18	B423034	12	0.20	B422124
Total Thallium (Tl)	mg/L	<0.00020	B422557	<0.00020	B423007	<0.00020	0.00020	B422127
Total Tin (Sn)	mg/L	<0.0010	B422557	<0.0010	B423007	<0.0010	0.0010	B422127
Total Titanium (Ti)	mg/L	0.0032	B422557	0.0034	B423007	0.0014	0.0010	B422127
Total Uranium (U)	mg/L	<0.00010	B422557	<0.00010	B423007	<0.00010	0.00010	B422127
Total Vanadium (V)	mg/L	<0.0010	B422557	<0.0010	B423007	<0.0010	0.0010	B422127
Total Zinc (Zn)	mg/L	0.20	B422557	0.18	B423007	0.080	0.0030	B422127

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CQD506		CQD507		CQD508	CQD509		
Sampling Date		2024/06/25 09:15		2024/06/25 08:50		2024/06/25 08:55	2024/06/25 09:20		
COC Number		C#728090-01-01		C#728090-01-01		C#728090-01-01	C#728090-01-01		
	UNITS	CL-7-BTM	QC Batch	CL-8-SFC	QC Batch	CL-8-BTM	CL-2-SFC	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.31	B418662	0.30	B418662	0.51	0.15	0.020	B418662
Total Aluminum (Al)	mg/L	0.086	B423007	0.072	B422127	0.11	0.058	0.0030	B423007
Total Antimony (Sb)	mg/L	<0.00060	B423007	<0.00060	B422127	<0.00060	<0.00060	0.00060	B423007
Total Arsenic (As)	mg/L	0.00044	B423007	0.00050	B422127	0.00041	0.00034	0.00020	B423007
Total Barium (Ba)	mg/L	<0.010	B423034	<0.010	B422124	<0.010	<0.010	0.010	B423034
Total Beryllium (Be)	mg/L	<0.0010	B423007	<0.0010	B422127	<0.0010	<0.0010	0.0010	B423007
Total Boron (B)	mg/L	<0.020	B423034	<0.020	B422124	<0.020	<0.020	0.020	B423034
Total Calcium (Ca)	mg/L	17	B423034	15	B422124	20	14	0.30	B423034
Total Chromium (Cr)	mg/L	<0.0010	B423007	<0.0010	B422127	<0.0010	0.0023	0.0010	B423007
Total Cobalt (Co)	mg/L	<0.00030	B423007	<0.00030	B422127	0.00057	<0.00030	0.00030	B423007
Total Copper (Cu)	mg/L	0.017	B423007	0.016	B422127	0.024	0.0091	0.0010	B423007
Total Iron (Fe)	mg/L	0.50	B423034	0.35	B422124	0.84	0.28	0.060	B423034
Total Lead (Pb)	mg/L	<0.00020	B423007	<0.00020	B422127	<0.00020	<0.00020	0.00020	B423007
Total Lithium (Li)	mg/L	<0.020	B423034	<0.020	B422124	<0.020	<0.020	0.020	B423034
Total Magnesium (Mg)	mg/L	3.8	B423034	3.4	B422124	4.1	3.3	0.20	B423034
Total Manganese (Mn)	mg/L	0.032	B423034	0.025	B422124	0.051	0.017	0.0040	B423034
Total Molybdenum (Mo)	mg/L	<0.00020	B423007	<0.00020	B422127	<0.00020	0.00033	0.00020	B423007
Total Nickel (Ni)	mg/L	0.00095	B423007	0.00099	B422127	0.0012	0.0018	0.00050	B423007
Total Phosphorus (P)	mg/L	<0.10	B423034	<0.10	B422124	<0.10	<0.10	0.10	B423034
Total Potassium (K)	mg/L	1.8	B423034	1.6	B422124	2.0	1.6	0.30	B423034
Total Selenium (Se)	mg/L	<0.00020	B423007	<0.00020	B422127	<0.00020	<0.00020	0.00020	B423007
Total Silicon (Si)	mg/L	0.88	B423034	0.85	B422124	0.92	0.74	0.50	B423034
Total Silver (Ag)	mg/L	<0.00010	B423007	<0.00010	B422127	<0.00010	<0.00010	0.00010	B423007
Total Sodium (Na)	mg/L	2.0	B423034	1.9	B422124	2.0	1.9	0.50	B423034
Total Strontium (Sr)	mg/L	0.026	B423034	0.025	B422124	0.027	0.024	0.020	B423034
Total Sulphur (S)	mg/L	13	B423034	11	B422124	17	9.4	0.20	B423034
Total Thallium (Tl)	mg/L	<0.00020	B423007	<0.00020	B422127	<0.00020	<0.00020	0.00020	B423007
Total Tin (Sn)	mg/L	<0.0010	B423007	<0.0010	B422127	<0.0010	<0.0010	0.0010	B423007
Total Titanium (Ti)	mg/L	0.0035	B423007	0.0021	B422127	0.0030	0.0015	0.0010	B423007
Total Uranium (U)	mg/L	<0.00010	B423007	<0.00010	B422127	<0.00010	<0.00010	0.00010	B423007
Total Vanadium (V)	mg/L	<0.0010	B423007	<0.0010	B422127	<0.0010	<0.0010	0.0010	B423007
Total Zinc (Zn)	mg/L	0.099	B423007	0.098	B422127	0.16	0.050	0.0030	B423007

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CQD510	CQD511		CQD512		CQD513		
Sampling Date		2024/06/25 09:25	2024/06/25 08:40		2024/06/25 08:45		2024/06/25 08:30		
COC Number		C#728090-01-01	C#728090-01-01		C#728090-01-01		C#728090-01-01		
	UNITS	CL-2-BTM	CL-4-SFC	QC Batch	CL-4-BTM	QC Batch	CL-5-SFC	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.14	0.27	B418662	0.12	B418662	0.21	0.020	B418662
Total Aluminum (Al)	mg/L	0.058	0.078	B423007	0.075	B422127	0.10	0.0030	B422221
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B423007	<0.00060	B422127	<0.00060	0.00060	B422221
Total Arsenic (As)	mg/L	0.00036	0.00046	B423007	0.00043	B422127	0.00048	0.00020	B422221
Total Barium (Ba)	mg/L	<0.010	<0.010	B423034	0.011	B422124	<0.010	0.010	B422209
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B423007	<0.0010	B422127	<0.0010	0.0010	B422221
Total Boron (B)	mg/L	<0.020	<0.020	B423034	<0.020	B422124	<0.020	0.020	B422209
Total Calcium (Ca)	mg/L	13	16	B423034	14	B422124	15	0.30	B422209
Total Chromium (Cr)	mg/L	<0.0010	0.0099	B423007	<0.0010	B422127	<0.0010	0.0010	B422221
Total Cobalt (Co)	mg/L	<0.00030	0.00034	B423007	<0.00030	B422127	<0.00030	0.00030	B422221
Total Copper (Cu)	mg/L	0.0079	0.015	B423007	0.0077	B422127	0.012	0.0010	B422221
Total Iron (Fe)	mg/L	0.43	0.37	B423034	0.80	B422124	0.29	0.060	B422209
Total Lead (Pb)	mg/L	<0.00020	<0.00020	B423007	<0.00020	B422127	<0.00020	0.00020	B422221
Total Lithium (Li)	mg/L	<0.020	<0.020	B423034	<0.020	B422124	<0.020	0.020	B422209
Total Magnesium (Mg)	mg/L	3.2	3.6	B423034	3.7	B422124	3.8	0.20	B422209
Total Manganese (Mn)	mg/L	0.026	0.024	B423034	0.047	B422124	0.022	0.0040	B422209
Total Molybdenum (Mo)	mg/L	<0.00020	0.0012	B423007	<0.00020	B422127	<0.00020	0.00020	B422221
Total Nickel (Ni)	mg/L	0.00058	0.0057	B423007	0.00056	B422127	0.00080	0.00050	B422221
Total Phosphorus (P)	mg/L	<0.10	<0.10	B423034	<0.10	B422124	<0.10	0.10	B422209
Total Potassium (K)	mg/L	1.6	1.8	B423034	1.7	B422124	1.8	0.30	B422209
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B423007	<0.00020	B422127	<0.00020	0.00020	B422221
Total Silicon (Si)	mg/L	0.77	0.80	B423034	1.1	B422124	0.96	0.50	B422209
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B423007	<0.00010	B422127	<0.00010	0.00010	B422221
Total Sodium (Na)	mg/L	1.9	2.0	B423034	2.2	B422124	2.2	0.50	B422209
Total Strontium (Sr)	mg/L	0.024	0.025	B423034	0.028	B422124	0.027	0.020	B422209
Total Sulphur (S)	mg/L	8.5	11	B423034	8.8	B422124	9.2	0.20	B422209
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B423007	<0.00020	B422127	<0.00020	0.00020	B422221
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B423007	<0.0010	B422127	<0.0010	0.0010	B422221
Total Titanium (Ti)	mg/L	0.0012	0.0015	B423007	0.0028	B422127	0.0018	0.0010	B422221
Total Uranium (U)	mg/L	<0.00010	<0.00010	B423007	<0.00010	B422127	<0.00010	0.00010	B422221
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B423007	<0.0010	B422127	<0.0010	0.0010	B422221
Total Zinc (Zn)	mg/L	0.042	0.089	B423007	0.039	B422127	0.069	0.0030	B422221

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CQD513			CQD514			CQD514		
Sampling Date		2024/06/25 08:30			2024/06/25 08:35			2024/06/25 08:35		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	CL-5-SFC Lab-Dup	RDL	QC Batch	CL-5-BTM	RDL	QC Batch	CL-5-BTM Lab-Dup	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L				0.15	0.020	B418662			
Total Aluminum (Al)	mg/L	0.11	0.0030	B422221	0.091	0.0030	B423007	0.080	0.0030	B423007
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B422221	<0.00060	0.00060	B423007	<0.00060	0.00060	B423007
Total Arsenic (As)	mg/L	0.00045	0.00020	B422221	0.00047	0.00020	B423007	0.00046	0.00020	B423007
Total Barium (Ba)	mg/L	<0.010	0.010	B422209	<0.010	0.010	B423034	<0.010	0.010	B423034
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B422221	<0.0010	0.0010	B423007	<0.0010	0.0010	B423007
Total Boron (B)	mg/L	<0.020	0.020	B422209	<0.020	0.020	B423034	<0.020	0.020	B423034
Total Calcium (Ca)	mg/L	15	0.30	B422209	14	0.30	B423034	13	0.30	B423034
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B422221	<0.0010	0.0010	B423007	<0.0010	0.0010	B423007
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B422221	<0.00030	0.00030	B423007	<0.00030	0.00030	B423007
Total Copper (Cu)	mg/L	0.012	0.0010	B422221	0.010	0.0010	B423007	0.0090	0.0010	B423007
Total Iron (Fe)	mg/L	0.29	0.060	B422209	0.56	0.060	B423034	0.55	0.060	B423034
Total Lead (Pb)	mg/L	<0.00020	0.00020	B422221	<0.00020	0.00020	B423007	<0.00020	0.00020	B423007
Total Lithium (Li)	mg/L	<0.020	0.020	B422209	<0.020	0.020	B423034	<0.020	0.020	B423034
Total Magnesium (Mg)	mg/L	3.8	0.20	B422209	3.4	0.20	B423034	3.3	0.20	B423034
Total Manganese (Mn)	mg/L	0.022	0.0040	B422209	0.034	0.0040	B423034	0.033	0.0040	B423034
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B422221	<0.00020	0.00020	B423007	<0.00020	0.00020	B423007
Total Nickel (Ni)	mg/L	0.00077	0.00050	B422221	0.00083	0.00050	B423007	0.00065	0.00050	B423007
Total Phosphorus (P)	mg/L	<0.10	0.10	B422209	<0.10	0.10	B423034	<0.10	0.10	B423034
Total Potassium (K)	mg/L	1.8	0.30	B422209	1.7	0.30	B423034	1.7	0.30	B423034
Total Selenium (Se)	mg/L	<0.00020	0.00020	B422221	<0.00020	0.00020	B423007	<0.00020	0.00020	B423007
Total Silicon (Si)	mg/L	0.95	0.50	B422209	0.92	0.50	B423034	0.86	0.50	B423034
Total Silver (Ag)	mg/L	<0.00010	0.00010	B422221	<0.00010	0.00010	B423007	<0.00010	0.00010	B423007
Total Sodium (Na)	mg/L	2.2	0.50	B422209	2.1	0.50	B423034	2.0	0.50	B423034
Total Strontium (Sr)	mg/L	0.027	0.020	B422209	0.025	0.020	B423034	0.024	0.020	B423034
Total Sulphur (S)	mg/L	9.2	0.20	B422209	8.5	0.20	B423034	8.1	0.20	B423034
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B422221	<0.00020	0.00020	B423007	<0.00020	0.00020	B423007
Total Tin (Sn)	mg/L	<0.0010	0.0010	B422221	<0.0010	0.0010	B423007	<0.0010	0.0010	B423007
Total Titanium (Ti)	mg/L	0.0018	0.0010	B422221	0.0035	0.0010	B423007	0.0028	0.0010	B423007
Total Uranium (U)	mg/L	<0.00010	0.00010	B422221	<0.00010	0.00010	B423007	<0.00010	0.00010	B423007
Total Vanadium (V)	mg/L	<0.0010	0.0010	B422221	<0.0010	0.0010	B423007	<0.0010	0.0010	B423007
Total Zinc (Zn)	mg/L	0.071	0.0030	B422221	0.049	0.0030	B423007	0.043	0.0030	B423007

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CQD515		CQD516	CQD517		CQD518		
Sampling Date		2024/06/25 08:20		2024/06/25 08:25	2024/06/25		2024/06/25		
COC Number		C#728090-01-01		C#728090-01-01	C#728090-01-01		C#728090-01-01		
	UNITS	CL-6-SFC	QC Batch	CL-6-BTM	SW-110	QC Batch	SW-111	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.12	B418662	0.14	0.13	B418662	0.27	0.020	B418662
Total Aluminum (Al)	mg/L	0.079	B423007	0.082	0.085	B422557	0.083	0.0030	B423007
Total Antimony (Sb)	mg/L	<0.00060	B423007	<0.00060	<0.00060	B422557	<0.00060	0.00060	B423007
Total Arsenic (As)	mg/L	0.00038	B423007	0.00050	0.00046	B422557	0.00039	0.00020	B423007
Total Barium (Ba)	mg/L	<0.010	B423034	0.010	0.010	B422559	<0.010	0.010	B423034
Total Beryllium (Be)	mg/L	<0.0010	B423007	<0.0010	<0.0010	B422557	<0.0010	0.0010	B423007
Total Boron (B)	mg/L	<0.020	B423034	<0.020	<0.020	B422559	<0.020	0.020	B423034
Total Calcium (Ca)	mg/L	12	B423034	13	13	B422559	16	0.30	B423034
Total Chromium (Cr)	mg/L	<0.0010	B423007	<0.0010	<0.0010	B422557	<0.0010	0.0010	B423007
Total Cobalt (Co)	mg/L	<0.00030	B423007	<0.00030	<0.00030	B422557	<0.00030	0.00030	B423007
Total Copper (Cu)	mg/L	0.0086	B423007	0.0088	0.0086	B422557	0.015	0.0010	B423007
Total Iron (Fe)	mg/L	0.21	B423034	0.24	0.23	B422559	0.37	0.060	B423034
Total Lead (Pb)	mg/L	<0.00020	B423007	<0.00020	<0.00020	B422557	<0.00020	0.00020	B423007
Total Lithium (Li)	mg/L	<0.020	B423034	<0.020	<0.020	B422559	<0.020	0.020	B423034
Total Magnesium (Mg)	mg/L	3.2	B423034	3.6	3.6	B422559	3.5	0.20	B423034
Total Manganese (Mn)	mg/L	0.014	B423034	0.017	0.017	B422559	0.024	0.0040	B423034
Total Molybdenum (Mo)	mg/L	<0.00020	B423007	<0.00020	<0.00020	B422557	<0.00020	0.00020	B423007
Total Nickel (Ni)	mg/L	0.00076	B423007	0.00065	0.00064	B422557	0.0014	0.00050	B423007
Total Phosphorus (P)	mg/L	<0.10	B423034	<0.10	<0.10	B422559	<0.10	0.10	B423034
Total Potassium (K)	mg/L	1.6	B423034	1.7	1.7	B422559	1.8	0.30	B423034
Total Selenium (Se)	mg/L	<0.00020	B423007	<0.00020	<0.00020	B422557	<0.00020	0.00020	B423007
Total Silicon (Si)	mg/L	0.78	B423034	0.96	0.94	B422559	0.82	0.50	B423034
Total Silver (Ag)	mg/L	<0.00010	B423007	<0.00010	<0.00010	B422557	<0.00010	0.00010	B423007
Total Sodium (Na)	mg/L	1.9	B423034	2.2	2.1	B422559	2.0	0.50	B423034
Total Strontium (Sr)	mg/L	0.024	B423034	0.027	0.027	B422559	0.025	0.020	B423034
Total Sulphur (S)	mg/L	7.0	B423034	7.2	7.1	B422559	11	0.20	B423034
Total Thallium (Tl)	mg/L	<0.00020	B423007	<0.00020	<0.00020	B422557	<0.00020	0.00020	B423007
Total Tin (Sn)	mg/L	<0.0010	B423007	<0.0010	<0.0010	B422557	<0.0010	0.0010	B423007
Total Titanium (Ti)	mg/L	0.0023	B423007	0.0020	0.0024	B422557	0.0024	0.0010	B423007
Total Uranium (U)	mg/L	<0.00010	B423007	<0.00010	<0.00010	B422557	<0.00010	0.00010	B423007
Total Vanadium (V)	mg/L	<0.0010	B423007	<0.0010	<0.0010	B422557	<0.0010	0.0010	B423007
Total Zinc (Zn)	mg/L	0.043	B423007	0.044	0.044	B422557	0.10	0.0030	B423007

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CQD519	CQD520		
Sampling Date		2024/06/25	2024/06/25		
COC Number		C#728090-01-01	C#728090-01-01		
	UNITS	SW-112	TRIP BLANK	RDL	QC Batch
Elements					
Total Cadmium (Cd)	ug/L	0.74	<0.020	0.020	B418662
Total Aluminum (Al)	mg/L	0.11	<0.0030	0.0030	B423007
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B423007
Total Arsenic (As)	mg/L	0.00034	<0.00020	0.00020	B423007
Total Barium (Ba)	mg/L	<0.010	<0.010	0.010	B423034
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B423007
Total Boron (B)	mg/L	<0.020	<0.020	0.020	B423034
Total Calcium (Ca)	mg/L	19	<0.30	0.30	B423034
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B423007
Total Cobalt (Co)	mg/L	0.00078	<0.00030	0.00030	B423007
Total Copper (Cu)	mg/L	0.033	<0.0010	0.0010	B423007
Total Iron (Fe)	mg/L	0.74	<0.060	0.060	B423034
Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00020	B423007
Total Lithium (Li)	mg/L	<0.020	<0.020	0.020	B423034
Total Magnesium (Mg)	mg/L	3.9	<0.20	0.20	B423034
Total Manganese (Mn)	mg/L	0.058	<0.0040	0.0040	B423034
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	0.00020	B423007
Total Nickel (Ni)	mg/L	0.0014	<0.00050	0.00050	B423007
Total Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B423034
Total Potassium (K)	mg/L	1.9	<0.30	0.30	B423034
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B423007
Total Silicon (Si)	mg/L	0.95	<0.50	0.50	B423034
Total Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B423007
Total Sodium (Na)	mg/L	1.9	<0.50	0.50	B423034
Total Strontium (Sr)	mg/L	0.025	<0.020	0.020	B423034
Total Sulphur (S)	mg/L	15	<0.20	0.20	B423034
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B423007
Total Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B423007
Total Titanium (Ti)	mg/L	0.0025	<0.0010	0.0010	B423007
Total Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	B423007
Total Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B423007
Total Zinc (Zn)	mg/L	0.23	<0.0030	0.0030	B423007
RDL = Reportable Detection Limit					

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD493		CQD494		CQD495		
Sampling Date		2024/06/25 10:50		2024/06/25 09:55		2024/06/25 09:50		
COC Number		C#728090-01-01		C#728090-01-01		C#728090-01-01		
	UNITS	SC-1	QC Batch	SB-1	QC Batch	SB-2	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	31	B418299	60	B418299	69	0.50	B418299
Total Hardness (CaCO3)	mg/L	33.4	B418324	66.8	B418324	64.9	0.50	B418324
Misc. Inorganics								
pH	pH	7.39	B421318	7.34	B421318	6.36	N/A	B422661
Total Organic Carbon (C)	mg/L	13	B425085	11	B425085	12	0.50	B418143
Total Suspended Solids	mg/L	4.6	B421889	1.7	B421889	2.0	1.0	B421889
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	13	B423437	11	B423389	11	0.50	B423379
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B421244	<1.0	B421244	<1.0	1.0	B422660
Alkalinity (Total as CaCO3)	mg/L	27	B421244	22	B421244	22	1.0	B422660
Bicarbonate (HCO3)	mg/L	33	B421244	27	B421244	26	1.0	B422660
Carbonate (CO3)	mg/L	<1.0	B421244	<1.0	B421244	<1.0	1.0	B422660
Hydroxide (OH)	mg/L	<1.0	B421244	<1.0	B421244	<1.0	1.0	B422660
Sulphate (SO4)	mg/L	7.8	B420377	44	B420266	60	1.0	B420400
Physical Properties								
Turbidity	NTU	1.8	B418953	3.6	B418953	3.6	0.10	B418953

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD496			CQD497			CQD497		
Sampling Date		2024/06/25 10:00			2024/06/25 10:05			2024/06/25 10:05		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	CB-1	RDL	QC Batch	CB-2	RDL	QC Batch	CB-2 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	69	0.50	B418299	74	0.50	B418299			
Total Hardness (CaCO3)	mg/L	71.1	0.50	B418324	80.4	0.50	B418324			
Misc. Inorganics										
pH	pH	6.34	N/A	B422661	7.32	N/A	B421318			
Total Organic Carbon (C)	mg/L	12	0.50	B418143	10	0.50	B425085			
Total Suspended Solids	mg/L	2.4	0.99	B422149	2.5	1.0	B422149			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B423437	9.8	0.50	B423389			
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B422660	<1.0	1.0	B421244			
Alkalinity (Total as CaCO3)	mg/L	22	1.0	B422660	17	1.0	B421244			
Bicarbonate (HCO3)	mg/L	26	1.0	B422660	21	1.0	B421244			
Carbonate (CO3)	mg/L	<1.0	1.0	B422660	<1.0	1.0	B421244			
Hydroxide (OH)	mg/L	<1.0	1.0	B422660	<1.0	1.0	B421244			
Sulphate (SO4)	mg/L	54	1.0	B420393	61	1.0	B420266	62	1.0	B420266
Physical Properties										
Turbidity	NTU	3.2	0.10	B418953	3.9	0.10	B418953			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD498			CQD499		CQD500		
Sampling Date		2024/06/25 10:10			2024/06/25 10:15		2024/06/25 10:25		
COC Number		C#728090-01-01			C#728090-01-01		C#728090-01-01		
	UNITS	EB-1	RDL	QC Batch	EB-2	QC Batch	NB-1	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	110	0.50	B418299	120	B418299	79	0.50	B418299
Total Hardness (CaCO3)	mg/L	126	0.50	B418324	118	B418324	92.4	0.50	B418324
Misc. Inorganics									
pH	pH	7.11	N/A	B421318	7.11	B421318	7.20	N/A	B421318
Total Organic Carbon (C)	mg/L	9.8	0.50	B418143	8.3	B423662	9.2	0.50	B426637
Total Suspended Solids	mg/L	3.8	0.97	B422149	3.2	B422149	3.1	1.0	B422149
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	8.5	0.50	B423389	7.7	B423437	8.8	0.50	B426217
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B421244	<1.0	B421244	<1.0	1.0	B421244
Alkalinity (Total as CaCO3)	mg/L	9.7	1.0	B421244	8.3	B421244	15	1.0	B421244
Bicarbonate (HCO3)	mg/L	12	1.0	B421244	10	B421244	18	1.0	B421244
Carbonate (CO3)	mg/L	<1.0	1.0	B421244	<1.0	B421244	<1.0	1.0	B421244
Hydroxide (OH)	mg/L	<1.0	1.0	B421244	<1.0	B421244	<1.0	1.0	B421244
Sulphate (SO4)	mg/L	100	1.0	B420625	120	B420625	70	1.0	B420266
Physical Properties									
Turbidity	NTU	6.2	0.10	B418953	7.0	B418953	4.5	0.10	B418953

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD501			CQD501			CQD502		
Sampling Date		2024/06/25 10:20			2024/06/25 10:20			2024/06/25 10:30		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	NB-2	RDL	QC Batch	NB-2 Lab-Dup	RDL	QC Batch	CLD	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	83	0.50	B418299				87	0.50	B418299
Total Hardness (CaCO3)	mg/L	81.7	0.50	B418324				79.4	0.50	B418324
Misc. Inorganics										
pH	pH	6.44	N/A	B422661				7.20	N/A	B421318
Total Organic Carbon (C)	mg/L	9.7	0.50	B425085				10	0.50	B418143
Total Suspended Solids	mg/L	2.7	1.0	B422149				2.6	0.99	B422149
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10	0.50	B423437				10	0.50	B423437
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B422660				<1.0	1.0	B421244
Alkalinity (Total as CaCO3)	mg/L	18	1.0	B422660				15	1.0	B421244
Bicarbonate (HCO3)	mg/L	22	1.0	B422660				19	1.0	B421244
Carbonate (CO3)	mg/L	<1.0	1.0	B422660				<1.0	1.0	B421244
Hydroxide (OH)	mg/L	<1.0	1.0	B422660				<1.0	1.0	B421244
Sulphate (SO4)	mg/L	73	1.0	B420393				75	1.0	B420377
Physical Properties										
Turbidity	NTU	4.0	0.10	B419132	4.9	0.10	B419132	4.7	0.10	B419132

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD503			CQD504			CQD505		
Sampling Date		2024/06/25 09:00			2024/06/25 09:05			2024/06/25 09:10		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	CL-3-SFC	RDL	QC Batch	CL-3-BTM	RDL	QC Batch	CL-7-SFC	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	73	0.50	B418299	73	0.50	B418669	54	0.50	B418670
Total Hardness (CaCO3)	mg/L	79.5	0.50	B418324	70.9	0.50	B418324	58.2	0.50	B418324
Misc. Inorganics										
pH	pH	7.28	N/A	B421318	6.35	N/A	B422661	6.77	N/A	B421318
Total Organic Carbon (C)	mg/L	11	0.50	B418143	12	0.50	B418143	12	0.50	B418143
Total Suspended Solids	mg/L	1.5	0.99	B422149	2.1	0.97	B422149	2.0	0.99	B422149
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10	0.50	B423437	10	0.50	B423389	11	0.50	B423389
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B422660	<1.0	1.0	B421244
Alkalinity (Total as CaCO3)	mg/L	17	1.0	B421244	20	1.0	B422660	22	1.0	B421244
Bicarbonate (HCO3)	mg/L	21	1.0	B421244	25	1.0	B422660	27	1.0	B421244
Carbonate (CO3)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B422660	<1.0	1.0	B421244
Hydroxide (OH)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B422660	<1.0	1.0	B421244
Sulphate (SO4)	mg/L	61	1.0	B420625	63	1.0	B420377	36	1.0	B420266
Physical Properties										
Turbidity	NTU	4.5	0.10	B419132	4.2	0.10	B419132	4.2	0.10	B419132

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD506			CQD507			CQD507		
Sampling Date		2024/06/25 09:15			2024/06/25 08:50			2024/06/25 08:50		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	CL-7-BTM	RDL	QC Batch	CL-8-SFC	RDL	QC Batch	CL-8-SFC Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	59	0.50	B418670	57	0.50	B418670			
Total Hardness (CaCO3)	mg/L	58.3	0.50	B418324	51.2	0.50	B418324			
Misc. Inorganics										
pH	pH	7.39	N/A	B421318	7.37	N/A	B421318			
Total Organic Carbon (C)	mg/L	13	0.50	B418143	11	0.50	B425085			
Total Suspended Solids	mg/L	1.5	0.99	B422149	<1.0	1.0	B422149			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10	0.50	B423389	10	0.50	B423389	11	0.50	B423389
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B421244			
Alkalinity (Total as CaCO3)	mg/L	23	1.0	B421244	22	1.0	B421244			
Bicarbonate (HCO3)	mg/L	27	1.0	B421244	27	1.0	B421244			
Carbonate (CO3)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B421244			
Hydroxide (OH)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B421244			
Sulphate (SO4)	mg/L	41	1.0	B420266	42	1.0	B420377			
Physical Properties										
Turbidity	NTU	3.1	0.10	B419132	3.8	0.10	B419132			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD508			CQD509		CQD510		
Sampling Date		2024/06/25 08:55			2024/06/25 09:20		2024/06/25 09:25		
COC Number		C#728090-01-01			C#728090-01-01		C#728090-01-01		
	UNITS	CL-8-BTM	RDL	QC Batch	CL-2-SFC	QC Batch	CL-2-BTM	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	74	0.50	B418670	53	B418670	49	0.50	B418670
Total Hardness (CaCO3)	mg/L	67.2	0.50	B418324	49.1	B418324	46.2	0.50	B418324
Misc. Inorganics									
pH	pH	6.35	N/A	B422661	7.40	B421318	7.41	N/A	B421318
Total Organic Carbon (C)	mg/L	12	0.50	B425077	12	B418143	11	0.50	B425085
Total Suspended Solids	mg/L	2.5	0.99	B422149	<1.0	B422149	1.7	1.0	B422149
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	10	0.50	B423437	10	B423389	11	0.50	B423437
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B422660	<1.0	B421244	<1.0	1.0	B421244
Alkalinity (Total as CaCO3)	mg/L	21	1.0	B422660	24	B421244	25	1.0	B421244
Bicarbonate (HCO3)	mg/L	26	1.0	B422660	30	B421244	30	1.0	B421244
Carbonate (CO3)	mg/L	<1.0	1.0	B422660	<1.0	B421244	<1.0	1.0	B421244
Hydroxide (OH)	mg/L	<1.0	1.0	B422660	<1.0	B421244	<1.0	1.0	B421244
Sulphate (SO4)	mg/L	60	1.0	B420393	36	B420377	31	1.0	B420377
Physical Properties									
Turbidity	NTU	4.8	0.10	B419132	2.4	B419132	4.4	0.10	B419132

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD511			CQD511			CQD512		
Sampling Date		2024/06/25 08:40			2024/06/25 08:40			2024/06/25 08:45		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	CL-4-SFC	RDL	QC Batch	CL-4-SFC Lab-Dup	RDL	QC Batch	CL-4-BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	55	0.50	B418670				49	0.50	B418670
Total Hardness (CaCO3)	mg/L	53.8	0.50	B418324				50.9	0.50	B418324
Misc. Inorganics										
pH	pH	7.40	N/A	B421318				7.34	N/A	B421318
Total Organic Carbon (C)	mg/L	12	0.50	B418143				11	0.50	B425085
Total Suspended Solids	mg/L	1.1	1.0	B422361	1.1	1.0	B422361	2.0	0.99	B422361
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B423437				10	0.50	B423389
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B421244				<1.0	1.0	B421244
Alkalinity (Total as CaCO3)	mg/L	23	1.0	B421244				25	1.0	B421244
Bicarbonate (HCO3)	mg/L	29	1.0	B421244				30	1.0	B421244
Carbonate (CO3)	mg/L	<1.0	1.0	B421244				<1.0	1.0	B421244
Hydroxide (OH)	mg/L	<1.0	1.0	B421244				<1.0	1.0	B421244
Sulphate (SO4)	mg/L	41	1.0	B420625				28	1.0	B420377
Physical Properties										
Turbidity	NTU	2.7	0.10	B419132				7.4	0.10	B419132

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD513			CQD514			CQD514		
Sampling Date		2024/06/25 08:30			2024/06/25 08:35			2024/06/25 08:35		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	CL-5-SFC	RDL	QC Batch	CL-5-BTM	RDL	QC Batch	CL-5-BTM Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	50	0.50	B418670	48	0.50	B418670			
Total Hardness (CaCO3)	mg/L	53.2	0.50	B418324	48.3	0.50	B418324			
Misc. Inorganics										
pH	pH	7.42	N/A	B421318	7.45	N/A	B421318			
Total Organic Carbon (C)	mg/L	13	0.50	B418143	11	0.50	B423662			
Total Suspended Solids	mg/L	0.96	0.96	B422361	1.7	0.95	B422361			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B423389	10	0.50	B423437			
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B421244			
Alkalinity (Total as CaCO3)	mg/L	25	1.0	B421244	25	1.0	B421244			
Bicarbonate (HCO3)	mg/L	31	1.0	B421244	31	1.0	B421244			
Carbonate (CO3)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B421244			
Hydroxide (OH)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B421244			
Sulphate (SO4)	mg/L	33	1.0	B420377	29	1.0	B420377	29	1.0	B420377
Physical Properties										
Turbidity	NTU	3.3	0.10	B419132	6.2	0.10	B419132			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD515		CQD516			CQD517		
Sampling Date		2024/06/25 08:20		2024/06/25 08:25			2024/06/25		
COC Number		C#728090-01-01		C#728090-01-01			C#728090-01-01		
	UNITS	CL-6-SFC	QC Batch	CL-6-BTM	RDL	QC Batch	SW-110	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	47	B418670	46	0.50	B418670	43	0.50	B418670
Total Hardness (CaCO3)	mg/L	43.6	B418671	48.3	0.50	B418673	48.1	0.50	B418671
Misc. Inorganics									
pH	pH	6.49	B422661	6.47	N/A	B422661	7.44	N/A	B421318
Total Organic Carbon (C)	mg/L	14	B418143	14	0.50	B418143	14	0.50	B425077
Total Suspended Solids	mg/L	<0.99	B422361	<0.99	0.99	B422361	1.6	0.97	B422361
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	12	B423389	11	0.50	B423389	11	0.50	B423389
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B422660	<1.0	1.0	B422660	<1.0	1.0	B421244
Alkalinity (Total as CaCO3)	mg/L	26	B422660	26	1.0	B422660	26	1.0	B421244
Bicarbonate (HCO3)	mg/L	32	B422660	32	1.0	B422660	31	1.0	B421244
Carbonate (CO3)	mg/L	<1.0	B422660	<1.0	1.0	B422660	<1.0	1.0	B421244
Hydroxide (OH)	mg/L	<1.0	B422660	<1.0	1.0	B422660	<1.0	1.0	B421244
Sulphate (SO4)	mg/L	24	B420266	24	1.0	B420377	21	1.0	B420266
Physical Properties									
Turbidity	NTU	2.1	B419132	2.6	0.10	B419132	3.0	0.10	B419132

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD518			CQD519			CQD520		
Sampling Date		2024/06/25			2024/06/25			2024/06/25		
COC Number		C#728090-01-01			C#728090-01-01			C#728090-01-01		
	UNITS	SW-111	RDL	QC Batch	SW-112	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	58	0.50	B418670	69	0.50	B418670	<0.50	0.50	B418670
Total Hardness (CaCO3)	mg/L	54.1	0.50	B418673	62.3	0.50	B418673	<0.50	0.50	B418673
Misc. Inorganics										
pH	pH	7.43	N/A	B421318	6.35	N/A	B422661	5.86	N/A	B421318
Total Organic Carbon (C)	mg/L	10	0.50	B425077	9.7	0.50	B425077	<0.50	0.50	B418143
Total Suspended Solids	mg/L	1.8	1.0	B422361	<0.99	0.99	B422361	<1.0	1.0	B422361
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10	0.50	B423389	11	0.50	B423437	<0.50	0.50	B423437
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B422660	<1.0	1.0	B421244
Alkalinity (Total as CaCO3)	mg/L	24	1.0	B421244	22	1.0	B422660	<1.0	1.0	B421244
Bicarbonate (HCO3)	mg/L	29	1.0	B421244	27	1.0	B422660	<1.0	1.0	B421244
Carbonate (CO3)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B422660	<1.0	1.0	B421244
Hydroxide (OH)	mg/L	<1.0	1.0	B421244	<1.0	1.0	B422660	<1.0	1.0	B421244
Sulphate (SO4)	mg/L	35	1.0	B420266	54	1.0	B420625	<1.0	1.0	B420377
Physical Properties										
Turbidity	NTU	4.2	0.10	B419132	3.5	0.10	B419132	<0.10	0.10	B419132

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CQD520		
Sampling Date		2024/06/25		
COC Number		C#728090-01-01		
	UNITS	TRIP BLANK Lab-Dup	RDL	QC Batch
Misc. Inorganics				
pH	pH	5.79	N/A	B421318
Anions				
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B421244
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	B421244
Bicarbonate (HCO3)	mg/L	<1.0	1.0	B421244
Carbonate (CO3)	mg/L	<1.0	1.0	B421244
Hydroxide (OH)	mg/L	<1.0	1.0	B421244

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.8°C
Package 2	7.3°C
Package 3	6.5°C

Sample CQD513, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B418143	Total Organic Carbon (C)	2024/07/02	NC	80 - 120	106	80 - 120	<0.50	mg/L	2.2	20
B418953	Turbidity	2024/06/27			103	80 - 120	<0.10	NTU	NC	20
B419132	Turbidity	2024/06/27			101	80 - 120	<0.10	NTU	19	20
B420262	Dissolved Aluminum (Al)	2024/06/28	105	80 - 120	106	80 - 120	<0.0030	mg/L	5.8	20
B420262	Dissolved Antimony (Sb)	2024/06/28	99	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20
B420262	Dissolved Arsenic (As)	2024/06/28	104	80 - 120	103	80 - 120	<0.00020	mg/L	9.5	20
B420262	Dissolved Beryllium (Be)	2024/06/28	100	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B420262	Dissolved Chromium (Cr)	2024/06/28	98	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B420262	Dissolved Cobalt (Co)	2024/06/28	98	80 - 120	99	80 - 120	<0.00030	mg/L	0.67	20
B420262	Dissolved Copper (Cu)	2024/06/28	100	80 - 120	101	80 - 120	<0.0010	mg/L	0.79	20
B420262	Dissolved Lead (Pb)	2024/06/28	100	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B420262	Dissolved Molybdenum (Mo)	2024/06/28	102	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B420262	Dissolved Nickel (Ni)	2024/06/28	98	80 - 120	98	80 - 120	<0.00050	mg/L	1.5	20
B420262	Dissolved Selenium (Se)	2024/06/28	106	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B420262	Dissolved Silver (Ag)	2024/06/28	99	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B420262	Dissolved Thallium (Tl)	2024/06/28	98	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B420262	Dissolved Tin (Sn)	2024/06/28	99	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B420262	Dissolved Titanium (Ti)	2024/06/28	97	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B420262	Dissolved Uranium (U)	2024/06/28	104	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20
B420262	Dissolved Vanadium (V)	2024/06/28	99	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B420262	Dissolved Zinc (Zn)	2024/06/28	NC	80 - 120	111	80 - 120	<0.0030	mg/L	0.77	20
B420266	Sulphate (SO4)	2024/06/28	89	80 - 120	94	80 - 120	<1.0	mg/L	1.4	20
B420267	Dissolved Aluminum (Al)	2024/06/28	103	80 - 120	107	80 - 120	<0.0030	mg/L	4.4	20
B420267	Dissolved Antimony (Sb)	2024/06/28	99	80 - 120	100	80 - 120	<0.00060	mg/L	NC	20
B420267	Dissolved Arsenic (As)	2024/06/28	105	80 - 120	103	80 - 120	<0.00020	mg/L	17	20
B420267	Dissolved Beryllium (Be)	2024/06/28	99	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B420267	Dissolved Chromium (Cr)	2024/06/28	98	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B420267	Dissolved Cobalt (Co)	2024/06/28	99	80 - 120	100	80 - 120	<0.00030	mg/L	4.3	20
B420267	Dissolved Copper (Cu)	2024/06/28	100	80 - 120	101	80 - 120	<0.0010	mg/L	0.094	20
B420267	Dissolved Lead (Pb)	2024/06/28	100	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B420267	Dissolved Molybdenum (Mo)	2024/06/28	100	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B420267	Dissolved Nickel (Ni)	2024/06/28	99	80 - 120	98	80 - 120	<0.00050	mg/L	13	20
B420267	Dissolved Selenium (Se)	2024/06/28	107	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B420267	Dissolved Silver (Ag)	2024/06/28	99	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B420267	Dissolved Thallium (Tl)	2024/06/28	98	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B420267	Dissolved Tin (Sn)	2024/06/28	99	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B420267	Dissolved Titanium (Ti)	2024/06/28	98	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B420267	Dissolved Uranium (U)	2024/06/28	102	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20
B420267	Dissolved Vanadium (V)	2024/06/28	100	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B420267	Dissolved Zinc (Zn)	2024/06/28	NC	80 - 120	109	80 - 120	<0.0030	mg/L	0.18	20
B420377	Sulphate (SO4)	2024/06/28	98	80 - 120	104	80 - 120	<1.0	mg/L	0.050	20
B420393	Sulphate (SO4)	2024/06/28	NC	80 - 120	102	80 - 120	<1.0	mg/L	4.6	20
B420400	Sulphate (SO4)	2024/06/28	NC	80 - 120	107	80 - 120	<1.0	mg/L	0.25	20
B420625	Sulphate (SO4)	2024/06/28	NC	80 - 120	102	80 - 120	<1.0	mg/L	2.2	20
B420644	Dissolved Barium (Ba)	2024/06/28	103	80 - 120	105	80 - 120	<0.010	mg/L	NC	20
B420644	Dissolved Boron (B)	2024/06/28	96	80 - 120	102	80 - 120	<0.020	mg/L	NC	20
B420644	Dissolved Calcium (Ca)	2024/06/28	96	80 - 120	99	80 - 120	<0.30	mg/L	9.9	20
B420644	Dissolved Iron (Fe)	2024/06/28	89	80 - 120	101	80 - 120	<0.060	mg/L	NC	20
B420644	Dissolved Lithium (Li)	2024/06/28	94	80 - 120	98	80 - 120	<0.020	mg/L	NC	20
B420644	Dissolved Magnesium (Mg)	2024/06/28	97	80 - 120	100	80 - 120	<0.20	mg/L	8.4	20
B420644	Dissolved Manganese (Mn)	2024/06/28	94	80 - 120	105	80 - 120	<0.0040	mg/L	142 (1)	20
B420644	Dissolved Phosphorus (P)	2024/06/28	90	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B420644	Dissolved Potassium (K)	2024/06/28	98	80 - 120	101	80 - 120	<0.30	mg/L	0.91	20
B420644	Dissolved Silicon (Si)	2024/06/28	84	80 - 120	97	80 - 120	<0.50	mg/L	NC	20
B420644	Dissolved Sodium (Na)	2024/06/28	101	80 - 120	103	80 - 120	<0.50	mg/L	5.5	20
B420644	Dissolved Strontium (Sr)	2024/06/28	101	80 - 120	102	80 - 120	<0.020	mg/L	11	20
B420644	Dissolved Sulphur (S)	2024/06/28	91	80 - 120	98	80 - 120	<0.20	mg/L	18	20
B420656	Dissolved Barium (Ba)	2024/06/28	100	80 - 120	103	80 - 120	<0.010	mg/L	17	20
B420656	Dissolved Boron (B)	2024/06/28	96	80 - 120	102	80 - 120	<0.020	mg/L	NC	20
B420656	Dissolved Calcium (Ca)	2024/06/28	95	80 - 120	99	80 - 120	<0.30	mg/L	0.52	20
B420656	Dissolved Iron (Fe)	2024/06/28	87	80 - 120	101	80 - 120	<0.060	mg/L	12	20
B420656	Dissolved Lithium (Li)	2024/06/28	92	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B420656	Dissolved Magnesium (Mg)	2024/06/28	95	80 - 120	99	80 - 120	<0.20	mg/L	0.013	20
B420656	Dissolved Manganese (Mn)	2024/06/28	92	80 - 120	106	80 - 120	<0.0040	mg/L	1.8	20
B420656	Dissolved Phosphorus (P)	2024/06/28	88	80 - 120	101	80 - 120	<0.10	mg/L	NC	20
B420656	Dissolved Potassium (K)	2024/06/28	97	80 - 120	101	80 - 120	<0.30	mg/L	4.2	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B420656	Dissolved Silicon (Si)	2024/06/28	83	80 - 120	99	80 - 120	<0.50	mg/L	6.5	20
B420656	Dissolved Sodium (Na)	2024/06/28	101	80 - 120	104	80 - 120	<0.50	mg/L	1.4	20
B420656	Dissolved Strontium (Sr)	2024/06/28	99	80 - 120	100	80 - 120	<0.020	mg/L	1.3	20
B420656	Dissolved Sulphur (S)	2024/06/28	91	80 - 120	100	80 - 120	<0.20	mg/L	0.53	20
B420659	Dissolved Barium (Ba)	2024/06/28	98	80 - 120	97	80 - 120	<0.010	mg/L	6.1	20
B420659	Dissolved Boron (B)	2024/06/28	100	80 - 120	99	80 - 120	<0.020	mg/L	NC	20
B420659	Dissolved Calcium (Ca)	2024/06/28	88	80 - 120	90	80 - 120	<0.30	mg/L	1.2	20
B420659	Dissolved Iron (Fe)	2024/06/28	109	80 - 120	110	80 - 120	<0.060	mg/L	2.5	20
B420659	Dissolved Lithium (Li)	2024/06/28	93	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B420659	Dissolved Magnesium (Mg)	2024/06/28	100	80 - 120	99	80 - 120	<0.20	mg/L	1.1	20
B420659	Dissolved Manganese (Mn)	2024/06/28	107	80 - 120	108	80 - 120	<0.0040	mg/L	1.1	20
B420659	Dissolved Phosphorus (P)	2024/06/28	105	80 - 120	101	80 - 120	<0.10	mg/L	NC	20
B420659	Dissolved Potassium (K)	2024/06/28	91	80 - 120	92	80 - 120	<0.30	mg/L	0.099	20
B420659	Dissolved Silicon (Si)	2024/06/28	100	80 - 120	99	80 - 120	<0.50	mg/L	4.5	20
B420659	Dissolved Sodium (Na)	2024/06/28	89	80 - 120	88	80 - 120	<0.50	mg/L	1.3	20
B420659	Dissolved Strontium (Sr)	2024/06/28	97	80 - 120	96	80 - 120	<0.020	mg/L	1.2	20
B420659	Dissolved Sulphur (S)	2024/06/28	103	80 - 120	97	80 - 120	<0.20	mg/L	0.81	20
B421244	Alkalinity (PP as CaCO3)	2024/07/01					<1.0	mg/L	NC	20
B421244	Alkalinity (Total as CaCO3)	2024/07/01			98	80 - 120	<1.0	mg/L	NC	20
B421244	Bicarbonate (HCO3)	2024/07/01					<1.0	mg/L	NC	20
B421244	Carbonate (CO3)	2024/07/01					<1.0	mg/L	NC	20
B421244	Hydroxide (OH)	2024/07/01					<1.0	mg/L	NC	20
B421318	pH	2024/06/29			100	97 - 103			1.2	N/A
B421889	Total Suspended Solids	2024/07/02	90	80 - 120	96	80 - 120	<1.0	mg/L	12	20
B422124	Total Barium (Ba)	2024/06/30	98	80 - 120	94	80 - 120	<0.010	mg/L	NC	20
B422124	Total Boron (B)	2024/06/30	90	80 - 120	86	80 - 120	<0.020	mg/L	NC	20
B422124	Total Calcium (Ca)	2024/06/30	103	80 - 120	95	80 - 120	<0.30	mg/L	4.6	20
B422124	Total Iron (Fe)	2024/06/30	108	80 - 120	99	80 - 120	<0.060	mg/L	2.2	20
B422124	Total Lithium (Li)	2024/06/30	97	80 - 120	92	80 - 120	<0.020	mg/L	NC	20
B422124	Total Magnesium (Mg)	2024/06/30	103	80 - 120	97	80 - 120	<0.20	mg/L	3.2	20
B422124	Total Manganese (Mn)	2024/06/30	100	80 - 120	97	80 - 120	<0.0040	mg/L	2.9	20
B422124	Total Phosphorus (P)	2024/06/30	98	80 - 120	92	80 - 120	<0.10	mg/L	NC	20
B422124	Total Potassium (K)	2024/06/30	101	80 - 120	95	80 - 120	<0.30	mg/L	1.1	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B422124	Total Silicon (Si)	2024/06/30	98	80 - 120	92	80 - 120	<0.50	mg/L	3.0	20
B422124	Total Sodium (Na)	2024/06/30	100	80 - 120	95	80 - 120	<0.50	mg/L	3.7	20
B422124	Total Strontium (Sr)	2024/06/30	93	80 - 120	89	80 - 120	<0.020	mg/L	2.9	20
B422124	Total Sulphur (S)	2024/06/30	105	80 - 120	100	80 - 120	<0.20	mg/L	4.0	20
B422127	Total Aluminum (Al)	2024/06/30	106	80 - 120	109	80 - 120	<0.0030	mg/L	2.9	20
B422127	Total Antimony (Sb)	2024/06/30	98	80 - 120	99	80 - 120	<0.00060	mg/L	NC	20
B422127	Total Arsenic (As)	2024/06/30	98	80 - 120	99	80 - 120	<0.00020	mg/L	17	20
B422127	Total Beryllium (Be)	2024/06/30	97	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B422127	Total Chromium (Cr)	2024/06/30	97	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B422127	Total Cobalt (Co)	2024/06/30	97	80 - 120	99	80 - 120	<0.00030	mg/L	1.4	20
B422127	Total Copper (Cu)	2024/06/30	95	80 - 120	99	80 - 120	<0.0010	mg/L	4.5	20
B422127	Total Lead (Pb)	2024/06/30	98	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B422127	Total Molybdenum (Mo)	2024/06/30	99	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B422127	Total Nickel (Ni)	2024/06/30	97	80 - 120	98	80 - 120	<0.00050	mg/L	9.4	20
B422127	Total Selenium (Se)	2024/06/30	95	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B422127	Total Silver (Ag)	2024/06/30	96	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B422127	Total Thallium (Tl)	2024/06/30	101	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B422127	Total Tin (Sn)	2024/06/30	98	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B422127	Total Titanium (Ti)	2024/06/30	101	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B422127	Total Uranium (U)	2024/06/30	100	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B422127	Total Vanadium (V)	2024/06/30	98	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B422127	Total Zinc (Zn)	2024/06/30	NC	80 - 120	98	80 - 120	<0.0030	mg/L	4.1	20
B422149	Total Suspended Solids	2024/07/02	82	80 - 120	95	80 - 120	<0.99	mg/L	16	20
B422209	Total Barium (Ba)	2024/06/30	100	80 - 120	97	80 - 120	<0.010	mg/L	NC	20
B422209	Total Boron (B)	2024/06/30	99	80 - 120	95	80 - 120	<0.020	mg/L	NC	20
B422209	Total Calcium (Ca)	2024/06/30	NC	80 - 120	95	80 - 120	<0.30	mg/L	0.48	20
B422209	Total Iron (Fe)	2024/06/30	NC	80 - 120	100	80 - 120	<0.060	mg/L	0.58	20
B422209	Total Lithium (Li)	2024/06/30	99	80 - 120	96	80 - 120	<0.020	mg/L	NC	20
B422209	Total Magnesium (Mg)	2024/06/30	NC	80 - 120	97	80 - 120	<0.20	mg/L	1.0	20
B422209	Total Manganese (Mn)	2024/06/30	108	80 - 120	105	80 - 120	<0.0040	mg/L	0.27	20
B422209	Total Phosphorus (P)	2024/06/30	97	80 - 120	93	80 - 120	<0.10	mg/L	NC	20
B422209	Total Potassium (K)	2024/06/30	101	80 - 120	96	80 - 120	<0.30	mg/L	0.071	20
B422209	Total Silicon (Si)	2024/06/30	NC	80 - 120	91	80 - 120	<0.50	mg/L	1.2	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B422209	Total Sodium (Na)	2024/06/30	98	80 - 120	94	80 - 120	<0.50	mg/L	0.38	20
B422209	Total Strontium (Sr)	2024/06/30	93	80 - 120	94	80 - 120	<0.020	mg/L	0.036	20
B422209	Total Sulphur (S)	2024/06/30	NC	80 - 120	92	80 - 120	<0.20	mg/L	0.56	20
B422221	Total Aluminum (Al)	2024/06/30	92	80 - 120	102	80 - 120	<0.0030	mg/L	3.6	20
B422221	Total Antimony (Sb)	2024/06/30	114	80 - 120	100	80 - 120	<0.00060	mg/L	NC	20
B422221	Total Arsenic (As)	2024/06/30	110	80 - 120	97	80 - 120	<0.00020	mg/L	6.4	20
B422221	Total Beryllium (Be)	2024/06/30	102	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B422221	Total Chromium (Cr)	2024/06/30	106	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B422221	Total Cobalt (Co)	2024/06/30	106	80 - 120	95	80 - 120	<0.00030	mg/L	NC	20
B422221	Total Copper (Cu)	2024/06/30	103	80 - 120	94	80 - 120	<0.0010	mg/L	0.084	20
B422221	Total Lead (Pb)	2024/06/30	109	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B422221	Total Molybdenum (Mo)	2024/06/30	115	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B422221	Total Nickel (Ni)	2024/06/30	104	80 - 120	93	80 - 120	<0.00050	mg/L	3.8	20
B422221	Total Selenium (Se)	2024/06/30	99	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B422221	Total Silver (Ag)	2024/06/30	108	80 - 120	96	80 - 120	<0.00010	mg/L	NC	20
B422221	Total Thallium (Tl)	2024/06/30	111	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B422221	Total Tin (Sn)	2024/06/30	116	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B422221	Total Titanium (Ti)	2024/06/30	106	80 - 120	94	80 - 120	<0.0010	mg/L	0.39	20
B422221	Total Uranium (U)	2024/06/30	111	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B422221	Total Vanadium (V)	2024/06/30	111	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B422221	Total Zinc (Zn)	2024/06/30	103	80 - 120	95	80 - 120	<0.0030	mg/L	2.4	20
B422361	Total Suspended Solids	2024/07/02	93	80 - 120	94	80 - 120	<0.96	mg/L	6.1	20
B422557	Total Aluminum (Al)	2024/06/30	NC	80 - 120	118	80 - 120	<0.0030	mg/L	3.3	20
B422557	Total Antimony (Sb)	2024/06/30	99	80 - 120	120	80 - 120	<0.00060	mg/L	1.1	20
B422557	Total Arsenic (As)	2024/06/30	100	80 - 120	117	80 - 120	<0.00020	mg/L	4.7	20
B422557	Total Beryllium (Be)	2024/06/30	119	80 - 120	112	80 - 120	<0.0010	mg/L	NC	20
B422557	Total Chromium (Cr)	2024/06/30	112	80 - 120	109	80 - 120	<0.0010	mg/L	NC	20
B422557	Total Cobalt (Co)	2024/06/30	113	80 - 120	110	80 - 120	<0.00030	mg/L	NC	20
B422557	Total Copper (Cu)	2024/06/30	111	80 - 120	110	80 - 120	<0.0010	mg/L	7.1	20
B422557	Total Lead (Pb)	2024/06/30	119	80 - 120	118	80 - 120	<0.00020	mg/L	NC	20
B422557	Total Molybdenum (Mo)	2024/06/30	106	80 - 120	116	80 - 120	<0.00020	mg/L	4.1	20
B422557	Total Nickel (Ni)	2024/06/30	111	80 - 120	109	80 - 120	<0.00050	mg/L	9.1	20
B422557	Total Selenium (Se)	2024/06/30	116	80 - 120	111	80 - 120	<0.00020	mg/L	0.35	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B422557	Total Silver (Ag)	2024/06/30	119	80 - 120	115	80 - 120	<0.00010	mg/L	NC	20
B422557	Total Thallium (Tl)	2024/06/30	104	80 - 120	112	80 - 120	<0.00020	mg/L	NC	20
B422557	Total Tin (Sn)	2024/06/30	102	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20
B422557	Total Titanium (Ti)	2024/06/30	113	80 - 120	107	80 - 120	<0.0010	mg/L	40 (1)	20
B422557	Total Uranium (U)	2024/06/30	106	80 - 120	116	80 - 120	<0.00010	mg/L	7.9	20
B422557	Total Vanadium (V)	2024/06/30	117	80 - 120	111	80 - 120	<0.0010	mg/L	NC	20
B422557	Total Zinc (Zn)	2024/06/30	111	80 - 120	111	80 - 120	<0.0030	mg/L	8.1	20
B422559	Total Barium (Ba)	2024/06/30	100	80 - 120	99	80 - 120	<0.010	mg/L	1.4	20
B422559	Total Boron (B)	2024/06/30	98	80 - 120	98	80 - 120	<0.020	mg/L	NC	20
B422559	Total Calcium (Ca)	2024/06/30	104	80 - 120	100	80 - 120	<0.30	mg/L	3.2	20
B422559	Total Iron (Fe)	2024/06/30	102	80 - 120	100	80 - 120	<0.060	mg/L	0.46	20
B422559	Total Lithium (Li)	2024/06/30	102	80 - 120	100	80 - 120	<0.020	mg/L	NC	20
B422559	Total Magnesium (Mg)	2024/06/30	105	80 - 120	101	80 - 120	<0.20	mg/L	3.5	20
B422559	Total Manganese (Mn)	2024/06/30	105	80 - 120	105	80 - 120	<0.0040	mg/L	0.86	20
B422559	Total Phosphorus (P)	2024/06/30	95	80 - 120	95	80 - 120	<0.10	mg/L	NC	20
B422559	Total Potassium (K)	2024/06/30	103	80 - 120	101	80 - 120	<0.30	mg/L	4.1	20
B422559	Total Silicon (Si)	2024/06/30	94	80 - 120	94	80 - 120	<0.50	mg/L	1.7	20
B422559	Total Sodium (Na)	2024/06/30	101	80 - 120	99	80 - 120	<0.50	mg/L	3.0	20
B422559	Total Strontium (Sr)	2024/06/30	96	80 - 120	95	80 - 120	<0.020	mg/L	0.21	20
B422559	Total Sulphur (S)	2024/06/30	93	80 - 120	93	80 - 120	<0.20	mg/L	1.7	20
B422660	Alkalinity (PP as CaCO3)	2024/06/30					<1.0	mg/L	NC	20
B422660	Alkalinity (Total as CaCO3)	2024/06/30			101	80 - 120	<1.0	mg/L	0.27	20
B422660	Bicarbonate (HCO3)	2024/06/30					<1.0	mg/L	0.27	20
B422660	Carbonate (CO3)	2024/06/30					<1.0	mg/L	NC	20
B422660	Hydroxide (OH)	2024/06/30					<1.0	mg/L	NC	20
B422661	pH	2024/06/30			100	97 - 103			0.53	N/A
B423007	Total Aluminum (Al)	2024/07/02	121 (1)	80 - 120	113	80 - 120	<0.0030	mg/L	12	20
B423007	Total Antimony (Sb)	2024/07/02	114	80 - 120	113	80 - 120	<0.00060	mg/L	NC	20
B423007	Total Arsenic (As)	2024/07/02	99	80 - 120	116	80 - 120	<0.00020	mg/L	3.4	20
B423007	Total Beryllium (Be)	2024/07/02	113	80 - 120	107	80 - 120	<0.0010	mg/L	NC	20
B423007	Total Chromium (Cr)	2024/07/02	117	80 - 120	110	80 - 120	<0.0010	mg/L	NC	20
B423007	Total Cobalt (Co)	2024/07/02	118	80 - 120	111	80 - 120	<0.00030	mg/L	NC	20
B423007	Total Copper (Cu)	2024/07/02	118	80 - 120	111	80 - 120	<0.0010	mg/L	12	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B423007	Total Lead (Pb)	2024/07/02	119	80 - 120	113	80 - 120	<0.00020	mg/L	NC	20
B423007	Total Molybdenum (Mo)	2024/07/02	115	80 - 120	112	80 - 120	<0.00020	mg/L	NC	20
B423007	Total Nickel (Ni)	2024/07/02	117	80 - 120	111	80 - 120	<0.00050	mg/L	NC	20
B423007	Total Selenium (Se)	2024/07/02	115	80 - 120	113	80 - 120	<0.00020	mg/L	NC	20
B423007	Total Silver (Ag)	2024/07/02	118	80 - 120	111	80 - 120	<0.00010	mg/L	NC	20
B423007	Total Thallium (Tl)	2024/07/02	105	80 - 120	116	80 - 120	<0.00020	mg/L	NC	20
B423007	Total Tin (Sn)	2024/07/02	115	80 - 120	112	80 - 120	<0.0010	mg/L	NC	20
B423007	Total Titanium (Ti)	2024/07/02	113	80 - 120	108	80 - 120	<0.0010	mg/L	NC	20
B423007	Total Uranium (U)	2024/07/02	101	80 - 120	114	80 - 120	<0.00010	mg/L	NC	20
B423007	Total Vanadium (V)	2024/07/02	120	80 - 120	112	80 - 120	<0.0010	mg/L	NC	20
B423007	Total Zinc (Zn)	2024/07/02	120	80 - 120	111	80 - 120	<0.0030	mg/L	13	20
B423034	Total Barium (Ba)	2024/07/02	93	80 - 120	89	80 - 120	<0.010	mg/L	NC	20
B423034	Total Boron (B)	2024/07/02	91	80 - 120	86	80 - 120	<0.020	mg/L	NC	20
B423034	Total Calcium (Ca)	2024/07/02	94	80 - 120	90	80 - 120	<0.30	mg/L	3.3	20
B423034	Total Iron (Fe)	2024/07/02	99	80 - 120	92	80 - 120	<0.060	mg/L	2.0	20
B423034	Total Lithium (Li)	2024/07/02	88	80 - 120	84	80 - 120	<0.020	mg/L	NC	20
B423034	Total Magnesium (Mg)	2024/07/02	93	80 - 120	90	80 - 120	<0.20	mg/L	4.0	20
B423034	Total Manganese (Mn)	2024/07/02	95	80 - 120	89	80 - 120	<0.0040	mg/L	4.7	20
B423034	Total Phosphorus (P)	2024/07/02	98	80 - 120	93	80 - 120	<0.10	mg/L	NC	20
B423034	Total Potassium (K)	2024/07/02	93	80 - 120	89	80 - 120	<0.30	mg/L	1.6	20
B423034	Total Silicon (Si)	2024/07/02	95	80 - 120	89	80 - 120	<0.50	mg/L	7.5	20
B423034	Total Sodium (Na)	2024/07/02	92	80 - 120	88	80 - 120	<0.50	mg/L	2.0	20
B423034	Total Strontium (Sr)	2024/07/02	90	80 - 120	86	80 - 120	<0.020	mg/L	3.2	20
B423034	Total Sulphur (S)	2024/07/02	96	80 - 120	95	80 - 120	<0.20	mg/L	5.7	20
B423129	Dissolved Molybdenum (Mo)	2024/07/02	92	80 - 120	99	80 - 120	<0.00020	mg/L	3.4	20
B423379	Dissolved Organic Carbon (C)	2024/07/02	NC	80 - 120	105	80 - 120	<0.50	mg/L	0.22	20
B423389	Dissolved Organic Carbon (C)	2024/07/02	NC	80 - 120	105	80 - 120	<0.50	mg/L	4.0	20
B423437	Dissolved Organic Carbon (C)	2024/07/02	NC	80 - 120	105	80 - 120	<0.50	mg/L	3.0	20
B423662	Total Organic Carbon (C)	2024/07/02	NC	80 - 120	104	80 - 120	<0.50	mg/L	5.2	20
B425077	Total Organic Carbon (C)	2024/07/03	NC	80 - 120	102	80 - 120	<0.50	mg/L	11	20
B425085	Total Organic Carbon (C)	2024/07/03	NC	80 - 120	109	80 - 120	<0.50	mg/L	2.2	20
B426114	Dissolved Aluminum (Al)	2024/07/04	101	80 - 120	96	80 - 120	<0.0030	mg/L	NC	20
B426114	Dissolved Antimony (Sb)	2024/07/04	99	80 - 120	95	80 - 120	<0.00060	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B426114	Dissolved Arsenic (As)	2024/07/04	107	80 - 120	101	80 - 120	<0.00020	mg/L	9.3	20
B426114	Dissolved Beryllium (Be)	2024/07/04	100	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B426114	Dissolved Chromium (Cr)	2024/07/04	102	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B426114	Dissolved Cobalt (Co)	2024/07/04	99	80 - 120	98	80 - 120	<0.00030	mg/L	7.4	20
B426114	Dissolved Copper (Cu)	2024/07/04	96	80 - 120	97	80 - 120	<0.0010	mg/L	3.8	20
B426114	Dissolved Lead (Pb)	2024/07/04	94	80 - 120	96	80 - 120	<0.00020	mg/L	1.5	20
B426114	Dissolved Molybdenum (Mo)	2024/07/04	115	80 - 120	97	80 - 120	<0.00020	mg/L	8.1	20
B426114	Dissolved Nickel (Ni)	2024/07/04	97	80 - 120	96	80 - 120	<0.00050	mg/L	0.66	20
B426114	Dissolved Selenium (Se)	2024/07/04	NC	80 - 120	101	80 - 120	<0.00020	mg/L	1.3	20
B426114	Dissolved Silver (Ag)	2024/07/04	99	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B426114	Dissolved Thallium (Tl)	2024/07/04	93	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B426114	Dissolved Tin (Sn)	2024/07/04	106	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B426114	Dissolved Titanium (Ti)	2024/07/04	107	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B426114	Dissolved Uranium (U)	2024/07/04	NC	80 - 120	96	80 - 120	<0.00010	mg/L	0.18	20
B426114	Dissolved Vanadium (V)	2024/07/04	107	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B426114	Dissolved Zinc (Zn)	2024/07/04	97	80 - 120	97	80 - 120	<0.0030	mg/L	NC	20
B426217	Dissolved Organic Carbon (C)	2024/07/04	105	80 - 120	98	80 - 120	<0.50	mg/L	0.094	20
B426637	Total Organic Carbon (C)	2024/07/04	112	80 - 120	101	80 - 120	<0.50	mg/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			728090
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#728090-01-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com, anichall@kgsgroup.com	Sampled By			

Regulatory Criteria: MWQSOG

Special Instructions: kmorhart@kgsgroup.com

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT (X)
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		SC-1	24-06-25	10:50	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze turbidity + DOC ASAP
2		SB-1		9:55				X	X	X	X	X	X	X	X	X	X	4	to meet hold times.
3		SB-2		9:50				X	X	X	X	X	X	X	X	X	X	4	
4		CB-1		10:00				X	X	X	X	X	X	X	X	X	X	4	
5		CB-2		10:05				X	X	X	X	X	X	X	X	X	X	4	
6		EB-1		10:10				X	X	X	X	X	X	X	X	X	X	4	
7		EB-2		10:15				X	X	X	X	X	X	X	X	X	X	4	
8		NB-1		10:25				X	X	X	X	X	X	X	X	X	X	4	
9		NB-2		10:20				X	X	X	X	X	X	X	X	X	X	4	
10		CLD		10:30				X	X	X	X	X	X	X	X	X	X	4	

MCAL-2024-06-2532

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Dyck	24/06/26	12:20	SEAN ENL	2024/06/26	1230			ACTL	Yes / No
				2024/06/27	08:25				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

ACTL

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			728090
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#728090-02-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By			

Regulatory Criteria: MWQSOG

Special Instructions: arychkail@kgsgroup.com, kmorhart@kgsgroup.com

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) - Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-3 SFC	24/06/25	9:00	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze turbidity + DOC ASAP to meet hold times.
2		CL-3 BTM		9:05				X	X	X	X	X	X	X	X	X	X	4	
3		CL-7 SFC		9:10				X	X	X	X	X	X	X	X	X	X	4	
4		CL-7 BTM		9:15				X	X	X	X	X	X	X	X	X	X	4	
5		CL-8 SFC		8:50				X	X	X	X	X	X	X	X	X	X	4	
6		CL-8 BTM		8:55				X	X	X	X	X	X	X	X	X	X	4	
7		CL-2 SFC		9:20				X	X	X	X	X	X	X	X	X	X	4	
8		CL-2 BTM		9:25				X	X	X	X	X	X	X	X	X	X	4	
9		CL-4 SFC		8:40				X	X	X	X	X	X	X	X	X	X	4	
10		CL-4 BTM		8:45				X	X	X	X	X	X	X	X	X	X	4	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck	24/06/26	12:30	SEAN ENG	24/06/26	1230			ACAR	Yes / No
				2024/06/27	08:25				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

ACTR

White: Bureau Veritas Yellow: Client

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			728090
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#728090-03-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By			

Regulatory Criteria: MWQSOG

Special Instructions: aruchkall@kgsgroup.com, kmorhart@kgsgroup.com

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Analysis Requested

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-5 SFC	24/06/25	8:30	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze turbidity + DOC ASAP
2		CL-5 BTM		8:35				X	X	X	X	X	X	X	X	X	X	4	to meet hold times.
3		CL-6 SFC		8:20				X	X	X	X	X	X	X	X	X	X	4	
4		CL-6 BTM		8:25				X	X	X	X	X	X	X	X	X	X	4	
5		SW-110		AM				X	X	X	X	X	X	X	X	X	X	4	
6		SW-111		AM				X	X	X	X	X	X	X	X	X	X	4	
7		SW-112		AM				X	X	X	X	X	X	X	X	X	X	4	
8		TRIP BLANK		—	LAB			X	X	X	X	X	X	X	X	X	X	4	
9																			
10																			

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____ [ ]
Rush Confirmation Number _____ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Rachel Dyck / Rachel Dyck	24/06/25	12:20	SEAN GM	2024/06/26	12:30	
				2024/06/27	08:25	

Lab Use Only: Time Sensitive [ ] | Temperature (°C) on Receipt: ACTR | Custody Seal Intact on Cooler? [ ] Yes [ ] No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

ACTR

White: Bureau Veritas Yellow: Client

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#729441-01-01, C#729441-02-01, C#729441-03-01

Report Date: 2024/07/17
Report #: R3528598
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C452412
Received: 2024/07/11, 12:30

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	28	N/A	2024/07/16	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	20	N/A	2024/07/15		Auto Calc
Cadmium - low level CCME - Dissolved (1)	8	N/A	2024/07/16		Auto Calc
Cadmium - low level CCME (Total) (1)	27	N/A	2024/07/16		Auto Calc
Cadmium - low level CCME (Total) (1)	1	N/A	2024/07/17		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	9	N/A	2024/07/14	AB SOP-00020	SM24-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry (1)	19	N/A	2024/07/15	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	19	N/A	2024/07/16	AB SOP-00087	MMCW 119 1996 m
Carbon (DOC) -Lab Filtered (1, 2)	9	N/A	2024/07/17	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	28	N/A	2024/07/15		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	28	N/A	2024/07/17	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	28	N/A	2024/07/14	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	15	2024/07/15	2024/07/15	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	12	2024/07/15	2024/07/16	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	1	2024/07/16	2024/07/16	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	20	N/A	2024/07/14	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	8	N/A	2024/07/15	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	24	2024/07/15	2024/07/15	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	3	2024/07/15	2024/07/16	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	1	2024/07/16	2024/07/16	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	28	N/A	2024/07/16	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	25	N/A	2024/07/16	AB SOP-00087	MMCW 119 1996 m
Carbon (Total Organic) (1, 7)	3	N/A	2024/07/17	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	28	2024/07/15	2024/07/15	AB SOP-00061	SM 24 2540 D m

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#729441-01-01, C#729441-02-01, C#729441-03-01

Report Date: 2024/07/17
Report #: R3528598
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C452412
Received: 2024/07/11, 12:30

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Turbidity (1)	28	N/A	2024/07/13	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#729441-01-01, C#729441-02-01, C#729441-03-01

Report Date: 2024/07/17
Report #: R3528598
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C452412
Received: 2024/07/11, 12:30

(7) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC498	CRC499	CRC500			CRC500		
Sampling Date		2024/07/10 10:30	2024/07/10 09:25	2024/07/10 09:20			2024/07/10 09:20		
COC Number		C#729441-01-01	C#729441-01-01	C#729441-01-01			C#729441-01-01		
	UNITS	SC-1	SB-1	SB-2	RDL	QC Batch	SB-2 Lab-Dup	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.24	0.31	0.35	0.020	B436041			
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.019	0.020	0.023	0.0030	B437945	0.021	0.0030	B437945
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	0.00060	B437945	<0.00060	0.00060	B437945
Dissolved Arsenic (As)	mg/L	0.00037	0.00031	0.00033	0.00020	B437945	0.00030	0.00020	B437945
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	<0.010	0.010	B438049			
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B437945	<0.0010	0.0010	B437945
Dissolved Boron (B)	mg/L	<0.020	<0.020	<0.020	0.020	B438049			
Dissolved Calcium (Ca)	mg/L	8.9	18	18	0.30	B438049			
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B437945	<0.0010	0.0010	B437945
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	0.00030	B437945	<0.00030	0.00030	B437945
Dissolved Copper (Cu)	mg/L	0.0075	0.013	0.015	0.0010	B437945	0.014	0.0010	B437945
Dissolved Iron (Fe)	mg/L	0.11	0.26	0.26	0.060	B438049			
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B437945	<0.00020	0.00020	B437945
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	0.020	B438049			
Dissolved Magnesium (Mg)	mg/L	2.9	4.1	4.1	0.20	B438049			
Dissolved Manganese (Mn)	mg/L	0.012	<0.0040	<0.0040	0.0040	B438049			
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B437945	<0.00020	0.00020	B437945
Dissolved Nickel (Ni)	mg/L	0.00052	0.00071	0.00086	0.00050	B437945	0.00081	0.00050	B437945
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	0.10	B438049			
Dissolved Potassium (K)	mg/L	1.4	2.0	2.0	0.30	B438049			
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B437945	<0.00020	0.00020	B437945
Dissolved Silicon (Si)	mg/L	0.91	0.93	0.91	0.50	B438049			
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B437945	<0.00010	0.00010	B437945
Dissolved Sodium (Na)	mg/L	1.9	2.2	2.2	0.50	B438049			
Dissolved Strontium (Sr)	mg/L	0.021	0.027	0.027	0.020	B438049			
Dissolved Sulphur (S)	mg/L	1.8	12	12	0.20	B438049			
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B437945	<0.00020	0.00020	B437945
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B437945	<0.0010	0.0010	B437945
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B437945	<0.0010	0.0010	B437945
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B437945	<0.00010	0.00010	B437945

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC498	CRC499	CRC500			CRC500		
Sampling Date		2024/07/10 10:30	2024/07/10 09:25	2024/07/10 09:20			2024/07/10 09:20		
COC Number		C#729441-01-01	C#729441-01-01	C#729441-01-01			C#729441-01-01		
	UNITS	**SC-1**	**SB-1**	**SB-2**	**RDL**	**QC Batch**	**SB-2 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B437945	<0.0010	0.0010	B437945
Dissolved Zinc (Zn)	mg/L	0.077	0.095	0.11	0.0030	B437945	0.10	0.0030	B437945

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC501	CRC502	CRC503	CRC504		
Sampling Date		2024/07/10 09:30	2024/07/10 09:35	2024/07/10 09:40	2024/07/10 09:45		
COC Number		C#729441-01-01	C#729441-01-01	C#729441-01-01	C#729441-01-01		
	UNITS	CB-1	CB-2	EB-1	EB-2	RDL	QC Batch
Elements							
Dissolved Cadmium (Cd)	ug/L	0.30	0.32	0.73	0.82	0.020	B436041
Lab Filtered Elements							
Dissolved Aluminum (Al)	mg/L	0.022	0.019	0.032	0.033	0.0030	B437945
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B437945
Dissolved Arsenic (As)	mg/L	0.00024	0.00025	<0.00020	0.00022	0.00020	B437945
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	0.011	0.011	0.010	B438049
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B438049
Dissolved Calcium (Ca)	mg/L	18	21	32	35	0.30	B438049
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	0.00052	0.00068	0.00030	B437945
Dissolved Copper (Cu)	mg/L	0.013	0.013	0.019	0.020	0.0010	B437945
Dissolved Iron (Fe)	mg/L	0.25	0.28	0.30	0.29	0.060	B438049
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B437945
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B438049
Dissolved Magnesium (Mg)	mg/L	4.2	4.7	6.2	6.5	0.20	B438049
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	0.069	0.078	0.0040	B438049
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B437945
Dissolved Nickel (Ni)	mg/L	0.00081	0.0019	0.0014	0.0018	0.00050	B437945
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	0.10	B438049
Dissolved Potassium (K)	mg/L	2.0	2.2	2.9	3.1	0.30	B438049
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B437945
Dissolved Silicon (Si)	mg/L	0.92	1.0	1.0	1.1	0.50	B438049
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B437945
Dissolved Sodium (Na)	mg/L	2.2	2.4	3.1	2.9	0.50	B438049
Dissolved Strontium (Sr)	mg/L	0.027	0.029	0.038	0.039	0.020	B438049
Dissolved Sulphur (S)	mg/L	13	16	30	32	0.20	B438049
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B437945
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B437945

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC501	CRC502	CRC503	CRC504		
Sampling Date		2024/07/10 09:30	2024/07/10 09:35	2024/07/10 09:40	2024/07/10 09:45		
COC Number		C#729441-01-01	C#729441-01-01	C#729441-01-01	C#729441-01-01		
	UNITS	**CB-1**	**CB-2**	**EB-1**	**EB-2**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Zinc (Zn)	mg/L	0.095	0.098	0.19	0.20	0.0030	B437945
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC505	CRC506		CRC507		CRC508		
Sampling Date		2024/07/10 10:00	2024/07/10 09:55		2024/07/10 10:05		2024/07/10 08:38		
COC Number		C#729441-01-01	C#729441-01-01		C#729441-01-01		C#729441-02-01		
	UNITS	**NB-1**	**NB-2**	**QC Batch**	**CLD**	**QC Batch**	**CL-3 SFC**	**RDL**	**QC Batch**
Elements									
Dissolved Cadmium (Cd)	ug/L	0.43	0.38	B436041	0.36	B436773	0.26	0.020	B436775
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.026	0.024	B438481	0.025	B437945	0.033	0.0030	B437945
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B438481	<0.00060	B437945	<0.00060	0.00060	B437945
Dissolved Arsenic (As)	mg/L	0.00024	0.00034	B438481	0.00031	B437945	0.00035	0.00020	B437945
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	B438050	<0.010	B438049	<0.010	0.010	B438049
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B438481	<0.0010	B437945	<0.0010	0.0010	B437945
Dissolved Boron (B)	mg/L	<0.020	<0.020	B438050	<0.020	B438049	<0.020	0.020	B438049
Dissolved Calcium (Ca)	mg/L	21	20	B438050	21	B438049	18	0.30	B438049
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B438481	<0.0010	B437945	<0.0010	0.0010	B437945
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B438481	<0.00030	B437945	<0.00030	0.00030	B437945
Dissolved Copper (Cu)	mg/L	0.021	0.019	B438481	0.016	B437945	0.012	0.0010	B437945
Dissolved Iron (Fe)	mg/L	0.29	0.28	B438050	0.31	B438049	0.23	0.060	B438049
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B438481	<0.00020	B437945	<0.00020	0.00020	B437945
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B438050	<0.020	B438049	<0.020	0.020	B438049
Dissolved Magnesium (Mg)	mg/L	4.5	4.4	B438050	4.6	B438049	4.2	0.20	B438049
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	B438050	<0.0040	B438049	<0.0040	0.0040	B438049
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B438481	<0.00020	B437945	<0.00020	0.00020	B437945
Dissolved Nickel (Ni)	mg/L	0.0010	0.00088	B438481	0.00094	B437945	0.00077	0.00050	B437945
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B438050	<0.10	B438049	<0.10	0.10	B438049
Dissolved Potassium (K)	mg/L	2.1	2.1	B438050	2.2	B438049	2.0	0.30	B438049
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B438481	<0.00020	B437945	<0.00020	0.00020	B437945
Dissolved Silicon (Si)	mg/L	0.94	0.92	B438050	0.96	B438049	0.87	0.50	B438049
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B438481	<0.00010	B437945	<0.00010	0.00010	B437945
Dissolved Sodium (Na)	mg/L	2.3	2.2	B438050	2.3	B438049	2.3	0.50	B438049
Dissolved Strontium (Sr)	mg/L	0.029	0.028	B438050	0.029	B438049	0.028	0.020	B438049
Dissolved Sulphur (S)	mg/L	16	14	B438050	16	B438049	12	0.20	B438049
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B438481	<0.00020	B437945	<0.00020	0.00020	B437945
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B438481	<0.0010	B437945	<0.0010	0.0010	B437945
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B438481	<0.0010	B437945	<0.0010	0.0010	B437945
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B438481	<0.00010	B437945	<0.00010	0.00010	B437945

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC505	CRC506		CRC507		CRC508		
Sampling Date		2024/07/10 10:00	2024/07/10 09:55		2024/07/10 10:05		2024/07/10 08:38		
COC Number		C#729441-01-01	C#729441-01-01		C#729441-01-01		C#729441-02-01		
	UNITS	**NB-1**	**NB-2**	**QC Batch**	**CLD**	**QC Batch**	**CL-3 SFC**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B438481	<0.0010	B437945	<0.0010	0.0010	B437945
Dissolved Zinc (Zn)	mg/L	0.15	0.13	B438481	0.11	B437945	0.081	0.0030	B437945
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC509	CRC510	CRC511	CRC512	CRC513		
Sampling Date		2024/07/10 08:38	2024/07/10 08:45	2024/07/10 08:45	2024/07/10 08:30	2024/07/10 08:30		
COC Number		C#729441-02-01	C#729441-02-01	C#729441-02-01	C#729441-02-01	C#729441-02-01		
	UNITS	CL-3 BTM	CL-7 SFC	CL-7 BTM	CL-8 SFC	CL-8 BTM	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.20	0.25	0.19	0.16	0.16	0.020	B436775
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.029	0.030	0.027	0.021	0.022	0.0030	B437945
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B437945
Dissolved Arsenic (As)	mg/L	0.00036	0.00039	0.00038	0.00029	0.00033	0.00020	B437945
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	B438049
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B438049
Dissolved Calcium (Ca)	mg/L	16	17	16	16	16	0.30	B438049
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B437945
Dissolved Copper (Cu)	mg/L	0.011	0.013	0.010	0.0089	0.0090	0.0010	B437945
Dissolved Iron (Fe)	mg/L	0.16	0.21	0.17	0.14	0.13	0.060	B438049
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	0.00033	0.00037	0.00020	B437945
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B438049
Dissolved Magnesium (Mg)	mg/L	3.9	4.1	4.0	3.9	3.9	0.20	B438049
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	<0.0040	<0.0040	<0.0040	0.0040	B438049
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B437945
Dissolved Nickel (Ni)	mg/L	0.00069	0.00081	0.00098	0.00091	0.00074	0.00050	B437945
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B438049
Dissolved Potassium (K)	mg/L	1.8	1.9	1.9	1.8	1.8	0.30	B438049
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B437945
Dissolved Silicon (Si)	mg/L	0.83	0.86	0.83	0.80	0.79	0.50	B438049
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B437945
Dissolved Sodium (Na)	mg/L	2.3	2.3	2.3	2.3	2.3	0.50	B438049
Dissolved Strontium (Sr)	mg/L	0.027	0.028	0.027	0.027	0.027	0.020	B438049
Dissolved Sulphur (S)	mg/L	9.9	12	10	10	9.4	0.20	B438049
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B437945
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B437945

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC509	CRC510	CRC511	CRC512	CRC513		
Sampling Date		2024/07/10 08:38	2024/07/10 08:45	2024/07/10 08:45	2024/07/10 08:30	2024/07/10 08:30		
COC Number		C#729441-02-01	C#729441-02-01	C#729441-02-01	C#729441-02-01	C#729441-02-01		
	UNITS	**CL-3 BTM**	**CL-7 SFC**	**CL-7 BTM**	**CL-8 SFC**	**CL-8 BTM**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Zinc (Zn)	mg/L	0.063	0.082	0.062	0.052	0.053	0.0030	B437945
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC514			CRC514			CRC515		
Sampling Date		2024/07/10 08:55			2024/07/10 08:55			2024/07/10 08:55		
COC Number		C#729441-02-01			C#729441-02-01			C#729441-02-01		
	UNITS	CL-2 SFC	RDL	QC Batch	CL-2 SFC Lab-Dup	RDL	QC Batch	CL-2 BTM	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.20	0.020	B436775				0.17	0.020	B436775
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.024	0.0030	B437945				0.022	0.0030	B438481
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B437945				<0.00060	0.00060	B438481
Dissolved Arsenic (As)	mg/L	0.00033	0.00020	B437945				0.00044	0.00020	B438481
Dissolved Barium (Ba)	mg/L	0.010	0.010	B438050	<0.010	0.010	B438050	<0.010	0.010	B438049
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B437945				<0.0010	0.0010	B438481
Dissolved Boron (B)	mg/L	<0.020	0.020	B438050	<0.020	0.020	B438050	<0.020	0.020	B438049
Dissolved Calcium (Ca)	mg/L	17	0.30	B438050	17	0.30	B438050	16	0.30	B438049
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B437945				<0.0010	0.0010	B438481
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B437945				<0.00030	0.00030	B438481
Dissolved Copper (Cu)	mg/L	0.011	0.0010	B437945				0.011	0.0010	B438481
Dissolved Iron (Fe)	mg/L	0.16	0.060	B438050	0.16	0.060	B438050	0.12	0.060	B438049
Dissolved Lead (Pb)	mg/L	0.00028	0.00020	B437945				<0.00020	0.00020	B438481
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B438050	<0.020	0.020	B438050	<0.020	0.020	B438049
Dissolved Magnesium (Mg)	mg/L	4.0	0.20	B438050	4.0	0.20	B438050	4.0	0.20	B438049
Dissolved Manganese (Mn)	mg/L	<0.0040	0.0040	B438050	<0.0040	0.0040	B438050	<0.0040	0.0040	B438049
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B437945				<0.00020	0.00020	B438481
Dissolved Nickel (Ni)	mg/L	0.00086	0.00050	B437945				0.00068	0.00050	B438481
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B438050	<0.10	0.10	B438050	<0.10	0.10	B438049
Dissolved Potassium (K)	mg/L	1.9	0.30	B438050	1.9	0.30	B438050	1.9	0.30	B438049
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B437945				<0.00020	0.00020	B438481
Dissolved Silicon (Si)	mg/L	0.86	0.50	B438050	0.84	0.50	B438050	0.83	0.50	B438049
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B437945				<0.00010	0.00010	B438481
Dissolved Sodium (Na)	mg/L	2.3	0.50	B438050	2.3	0.50	B438050	2.3	0.50	B438049
Dissolved Strontium (Sr)	mg/L	0.028	0.020	B438050	0.028	0.020	B438050	0.027	0.020	B438049
Dissolved Sulphur (S)	mg/L	11	0.20	B438050	11	0.20	B438050	11	0.20	B438049
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B437945				<0.00020	0.00020	B438481
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B437945				<0.0010	0.0010	B438481
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B437945				<0.0010	0.0010	B438481
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B437945				<0.00010	0.00010	B438481

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC514			CRC514			CRC515		
Sampling Date		2024/07/10 08:55			2024/07/10 08:55			2024/07/10 08:55		
COC Number		C#729441-02-01			C#729441-02-01			C#729441-02-01		
	UNITS	**CL-2 SFC**	**RDL**	**QC Batch**	**CL-2 SFC Lab-Dup**	**RDL**	**QC Batch**	**CL-2 BTM**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B437945				<0.0010	0.0010	B438481
Dissolved Zinc (Zn)	mg/L	0.068	0.0030	B437945				0.059	0.0030	B438481

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC515			CRC516		CRC517		
Sampling Date		2024/07/10 08:55			2024/07/10 08:25		2024/07/10 08:25		
COC Number		C#729441-02-01			C#729441-02-01		C#729441-02-01		
	UNITS	CL-2 BTM Lab-Dup	RDL	QC Batch	CL-4 SFC	QC Batch	CL-4 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L				0.13	B436775	0.089	0.020	B436775
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.023	0.0030	B438481	0.026	B438481	0.017	0.0030	B437945
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B438481	<0.00060	B438481	<0.00060	0.00060	B437945
Dissolved Arsenic (As)	mg/L	0.00035	0.00020	B438481	0.00041	B438481	0.00036	0.00020	B437945
Dissolved Barium (Ba)	mg/L				<0.010	B438050	<0.010	0.010	B438050
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B438481	<0.0010	B438481	<0.0010	0.0010	B437945
Dissolved Boron (B)	mg/L				<0.020	B438050	<0.020	0.020	B438050
Dissolved Calcium (Ca)	mg/L				14	B438050	15	0.30	B438050
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B438481	<0.0010	B438481	<0.0010	0.0010	B437945
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B438481	<0.00030	B438481	<0.00030	0.00030	B437945
Dissolved Copper (Cu)	mg/L	0.011	0.0010	B438481	0.0095	B438481	0.0058	0.0010	B437945
Dissolved Iron (Fe)	mg/L				0.11	B438050	0.21	0.060	B438050
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B438481	<0.00020	B438481	<0.00020	0.00020	B437945
Dissolved Lithium (Li)	mg/L				<0.020	B438050	<0.020	0.020	B438050
Dissolved Magnesium (Mg)	mg/L				3.7	B438050	3.8	0.20	B438050
Dissolved Manganese (Mn)	mg/L				<0.0040	B438050	0.0088	0.0040	B438050
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B438481	<0.00020	B438481	<0.00020	0.00020	B437945
Dissolved Nickel (Ni)	mg/L	0.00055	0.00050	B438481	0.00059	B438481	<0.00050	0.00050	B437945
Dissolved Phosphorus (P)	mg/L				<0.10	B438050	<0.10	0.10	B438050
Dissolved Potassium (K)	mg/L				1.7	B438050	1.8	0.30	B438050
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B438481	<0.00020	B438481	<0.00020	0.00020	B437945
Dissolved Silicon (Si)	mg/L				0.76	B438050	0.94	0.50	B438050
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B438481	<0.00010	B438481	<0.00010	0.00010	B437945
Dissolved Sodium (Na)	mg/L				2.2	B438050	2.3	0.50	B438050
Dissolved Strontium (Sr)	mg/L				0.026	B438050	0.028	0.020	B438050
Dissolved Sulphur (S)	mg/L				8.0	B438050	9.2	0.20	B438050
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B438481	<0.00020	B438481	<0.00020	0.00020	B437945
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B438481	<0.0010	B438481	<0.0010	0.0010	B437945
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B438481	<0.0010	B438481	<0.0010	0.0010	B437945
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B438481	<0.00010	B438481	<0.00010	0.00010	B437945

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC515			CRC516		CRC517		
Sampling Date		2024/07/10 08:55			2024/07/10 08:25		2024/07/10 08:25		
COC Number		C#729441-02-01			C#729441-02-01		C#729441-02-01		
	UNITS	**CL-2 BTM Lab-Dup**	**RDL**	**QC Batch**	**CL-4 SFC**	**QC Batch**	**CL-4 BTM**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B438481	<0.0010	B438481	<0.0010	0.0010	B437945
Dissolved Zinc (Zn)	mg/L	0.059	0.0030	B438481	0.049	B438481	0.032	0.0030	B437945

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC518		CRC519	CRC520	CRC521		
Sampling Date		2024/07/10 08:15		2024/07/10 08:15	2024/07/10 08:05	2024/07/10 08:05		
COC Number		C#729441-03-01		C#729441-03-01	C#729441-03-01	C#729441-03-01		
	UNITS	CL-5 SFC	QC Batch	CL-5 BTM	CL-6 SFC	CL-6 BTM	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.099	B436775	0.13	0.060	0.064	0.020	B436775
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.027	B437945	0.029	0.027	0.027	0.0030	B438481
Dissolved Antimony (Sb)	mg/L	<0.00060	B437945	<0.00060	<0.00060	<0.00060	0.00060	B438481
Dissolved Arsenic (As)	mg/L	0.00041	B437945	0.00043	0.00047	0.00047	0.00020	B438481
Dissolved Barium (Ba)	mg/L	<0.010	B438049	<0.010	<0.010	<0.010	0.010	B438050
Dissolved Beryllium (Be)	mg/L	<0.0010	B437945	<0.0010	<0.0010	<0.0010	0.0010	B438481
Dissolved Boron (B)	mg/L	<0.020	B438049	<0.020	<0.020	<0.020	0.020	B438050
Dissolved Calcium (Ca)	mg/L	14	B438049	14	12	12	0.30	B438050
Dissolved Chromium (Cr)	mg/L	<0.0010	B437945	<0.0010	<0.0010	<0.0010	0.0010	B438481
Dissolved Cobalt (Co)	mg/L	<0.00030	B437945	<0.00030	<0.00030	<0.00030	0.00030	B438481
Dissolved Copper (Cu)	mg/L	0.0072	B437945	0.0096	0.0062	0.0060	0.0010	B438481
Dissolved Iron (Fe)	mg/L	0.11	B438049	0.11	0.097	0.10	0.060	B438050
Dissolved Lead (Pb)	mg/L	<0.00020	B437945	<0.00020	<0.00020	<0.00020	0.00020	B438481
Dissolved Lithium (Li)	mg/L	<0.020	B438049	<0.020	<0.020	<0.020	0.020	B438050
Dissolved Magnesium (Mg)	mg/L	3.6	B438049	3.7	3.5	3.5	0.20	B438050
Dissolved Manganese (Mn)	mg/L	<0.0040	B438049	<0.0040	<0.0040	<0.0040	0.0040	B438050
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B437945	<0.00020	<0.00020	<0.00020	0.00020	B438481
Dissolved Nickel (Ni)	mg/L	0.00068	B437945	0.00060	0.00057	0.00050	0.00050	B438481
Dissolved Phosphorus (P)	mg/L	<0.10	B438049	<0.10	<0.10	<0.10	0.10	B438050
Dissolved Potassium (K)	mg/L	1.7	B438049	1.7	1.6	1.6	0.30	B438050
Dissolved Selenium (Se)	mg/L	<0.00020	B437945	<0.00020	<0.00020	<0.00020	0.00020	B438481
Dissolved Silicon (Si)	mg/L	0.72	B438049	0.76	0.60	0.63	0.50	B438050
Dissolved Silver (Ag)	mg/L	<0.00010	B437945	<0.00010	<0.00010	<0.00010	0.00010	B438481
Dissolved Sodium (Na)	mg/L	2.2	B438049	2.2	2.2	2.2	0.50	B438050
Dissolved Strontium (Sr)	mg/L	0.026	B438049	0.026	0.026	0.026	0.020	B438050
Dissolved Sulphur (S)	mg/L	7.5	B438049	7.4	5.9	5.7	0.20	B438050
Dissolved Thallium (Tl)	mg/L	<0.00020	B437945	<0.00020	<0.00020	<0.00020	0.00020	B438481
Dissolved Tin (Sn)	mg/L	<0.0010	B437945	<0.0010	<0.0010	<0.0010	0.0010	B438481
Dissolved Titanium (Ti)	mg/L	<0.0010	B437945	<0.0010	<0.0010	<0.0010	0.0010	B438481
Dissolved Uranium (U)	mg/L	<0.00010	B437945	<0.00010	<0.00010	<0.00010	0.00010	B438481
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC518		CRC519	CRC520	CRC521		
Sampling Date		2024/07/10 08:15		2024/07/10 08:15	2024/07/10 08:05	2024/07/10 08:05		
COC Number		C#729441-03-01		C#729441-03-01	C#729441-03-01	C#729441-03-01		
	UNITS	**CL-5 SFC**	**QC Batch**	**CL-5 BTM**	**CL-6 SFC**	**CL-6 BTM**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B437945	<0.0010	<0.0010	<0.0010	0.0010	B438481
Dissolved Zinc (Zn)	mg/L	0.037	B437945	0.048	0.026	0.024	0.0030	B438481
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC522		CRC523	CRC524	CRC525		
Sampling Date		2024/07/10		2024/07/10	2024/07/10	2024/07/10 08:15		
COC Number		C#729441-03-01		C#729441-03-01	C#729441-03-01	C#729441-03-01		
	UNITS	SW-113	QC Batch	SW-114	SW-115	TRIP BLANK	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.12	B436775	0.16	0.38	<0.020	0.020	B436775
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.029	B438481	0.024	0.026	<0.0030	0.0030	B437945
Dissolved Antimony (Sb)	mg/L	<0.00060	B438481	<0.00060	<0.00060	<0.00060	0.00060	B437945
Dissolved Arsenic (As)	mg/L	0.00037	B438481	0.00038	0.00035	<0.00020	0.00020	B437945
Dissolved Barium (Ba)	mg/L	<0.010	B438050	<0.010	<0.010	<0.010	0.010	B438049
Dissolved Beryllium (Be)	mg/L	<0.0010	B438481	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Boron (B)	mg/L	<0.020	B438050	<0.020	<0.020	<0.020	0.020	B438049
Dissolved Calcium (Ca)	mg/L	14	B438050	17	19	<0.30	0.30	B438049
Dissolved Chromium (Cr)	mg/L	<0.0010	B438481	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Cobalt (Co)	mg/L	<0.00030	B438481	<0.00030	<0.00030	<0.00030	0.00030	B437945
Dissolved Copper (Cu)	mg/L	0.0097	B438481	0.0095	0.016	<0.0010	0.0010	B437945
Dissolved Iron (Fe)	mg/L	0.12	B438050	0.16	0.27	<0.060	0.060	B438049
Dissolved Lead (Pb)	mg/L	<0.00020	B438481	<0.00020	<0.00020	<0.00020	0.00020	B437945
Dissolved Lithium (Li)	mg/L	<0.020	B438050	0.022	<0.020	<0.020	0.020	B438049
Dissolved Magnesium (Mg)	mg/L	3.7	B438050	4.0	4.2	<0.20	0.20	B438049
Dissolved Manganese (Mn)	mg/L	<0.0040	B438050	<0.0040	<0.0040	<0.0040	0.0040	B438049
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B438481	<0.00020	<0.00020	<0.00020	0.00020	B437945
Dissolved Nickel (Ni)	mg/L	0.00065	B438481	0.0010	0.00097	<0.00050	0.00050	B437945
Dissolved Phosphorus (P)	mg/L	<0.10	B438050	<0.10	<0.10	<0.10	0.10	B438049
Dissolved Potassium (K)	mg/L	1.7	B438050	1.9	2.0	<0.30	0.30	B438049
Dissolved Selenium (Se)	mg/L	<0.00020	B438481	<0.00020	<0.00020	<0.00020	0.00020	B437945
Dissolved Silicon (Si)	mg/L	0.75	B438050	0.83	0.93	<0.50	0.50	B438049
Dissolved Silver (Ag)	mg/L	<0.00010	B438481	<0.00010	<0.00010	<0.00010	0.00010	B437945
Dissolved Sodium (Na)	mg/L	2.2	B438050	2.3	2.2	<0.50	0.50	B438049
Dissolved Strontium (Sr)	mg/L	0.026	B438050	0.028	0.027	<0.020	0.020	B438049
Dissolved Sulphur (S)	mg/L	7.3	B438050	11	12	<0.20	0.20	B438049
Dissolved Thallium (Tl)	mg/L	<0.00020	B438481	<0.00020	<0.00020	<0.00020	0.00020	B437945
Dissolved Tin (Sn)	mg/L	<0.0010	B438481	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Titanium (Ti)	mg/L	<0.0010	B438481	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Uranium (U)	mg/L	<0.00010	B438481	<0.00010	<0.00010	<0.00010	0.00010	B437945

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRC522		CRC523	CRC524	CRC525		
Sampling Date		2024/07/10		2024/07/10	2024/07/10	2024/07/10 08:15		
COC Number		C#729441-03-01		C#729441-03-01	C#729441-03-01	C#729441-03-01		
	UNITS	**SW-113**	**QC Batch**	**SW-114**	**SW-115**	**TRIP BLANK**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B438481	<0.0010	<0.0010	<0.0010	0.0010	B437945
Dissolved Zinc (Zn)	mg/L	0.049	B438481	0.057	0.12	<0.0030	0.0030	B437945
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC498		CRC499	CRC500	CRC501		
Sampling Date		2024/07/10 10:30		2024/07/10 09:25	2024/07/10 09:20	2024/07/10 09:30		
COC Number		C#729441-01-01		C#729441-01-01	C#729441-01-01	C#729441-01-01		
	UNITS	SC-1	QC Batch	SB-1	SB-2	CB-1	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.36	B436042	0.41	0.49	0.44	0.020	B436042
Total Aluminum (Al)	mg/L	0.056	B440308	0.049	0.12	0.049	0.0030	B438868
Total Antimony (Sb)	mg/L	<0.00060	B440308	<0.00060	<0.00060	<0.00060	0.00060	B438868
Total Arsenic (As)	mg/L	0.00046	B440308	0.00032	0.00039	0.00030	0.00020	B438868
Total Barium (Ba)	mg/L	<0.010	B440312	<0.010	<0.010	<0.010	0.010	B438877
Total Beryllium (Be)	mg/L	<0.0010	B440308	<0.0010	<0.0010	<0.0010	0.0010	B438868
Total Boron (B)	mg/L	<0.020	B440312	<0.020	<0.020	<0.020	0.020	B438877
Total Calcium (Ca)	mg/L	8.4	B440312	16	16	17	0.30	B438877
Total Chromium (Cr)	mg/L	<0.0010	B440308	<0.0010	<0.0010	<0.0010	0.0010	B438868
Total Cobalt (Co)	mg/L	<0.00030	B440308	<0.00030	<0.00030	<0.00030	0.00030	B438868
Total Copper (Cu)	mg/L	0.012	B440308	0.020	0.023	0.021	0.0010	B438868
Total Iron (Fe)	mg/L	0.27	B440312	0.36	0.40	0.47	0.060	B438877
Total Lead (Pb)	mg/L	<0.00020	B440308	<0.00020	<0.00020	<0.00020	0.00020	B438868
Total Lithium (Li)	mg/L	<0.020	B440312	<0.020	<0.020	<0.020	0.020	B438877
Total Magnesium (Mg)	mg/L	2.4	B440312	3.7	3.7	3.9	0.20	B438877
Total Manganese (Mn)	mg/L	0.029	B440312	0.028	0.029	0.030	0.0040	B438877
Total Molybdenum (Mo)	mg/L	<0.00020	B440308	<0.00020	<0.00020	0.00081	0.00020	B438868
Total Nickel (Ni)	mg/L	0.00080	B440308	0.00088	0.0012	0.0010	0.00050	B438868
Total Phosphorus (P)	mg/L	<0.10	B440312	<0.10	<0.10	<0.10	0.10	B438877
Total Potassium (K)	mg/L	1.3	B440312	1.8	1.8	1.8	0.30	B438877
Total Selenium (Se)	mg/L	<0.00020	B440308	<0.00020	<0.00020	<0.00020	0.00020	B438868
Total Silicon (Si)	mg/L	1.1	B440312	0.98	0.99	1.0	0.50	B438877
Total Silver (Ag)	mg/L	<0.00010	B440308	<0.00010	<0.00010	<0.00010	0.00010	B438868
Total Sodium (Na)	mg/L	1.7	B440312	1.9	1.9	2.5	0.50	B438877
Total Strontium (Sr)	mg/L	<0.020	B440312	0.028	0.028	0.032	0.020	B438877
Total Sulphur (S)	mg/L	1.8	B440312	11	11	12	0.20	B438877
Total Thallium (Tl)	mg/L	<0.00020	B440308	<0.00020	<0.00020	<0.00020	0.00020	B438868
Total Tin (Sn)	mg/L	<0.0010	B440308	<0.0010	<0.0010	<0.0010	0.0010	B438868
Total Titanium (Ti)	mg/L	0.0016	B440308	<0.0010	0.0014	<0.0010	0.0010	B438868
Total Uranium (U)	mg/L	<0.00010	B440308	<0.00010	<0.00010	<0.00010	0.00010	B438868
Total Vanadium (V)	mg/L	<0.0010	B440308	<0.0010	<0.0010	<0.0010	0.0010	B438868

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC498		CRC499	CRC500	CRC501		
Sampling Date		2024/07/10 10:30		2024/07/10 09:25	2024/07/10 09:20	2024/07/10 09:30		
COC Number		C#729441-01-01		C#729441-01-01	C#729441-01-01	C#729441-01-01		
	UNITS	**SC-1**	**QC Batch**	**SB-1**	**SB-2**	**CB-1**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.12	B440308	0.13	0.15	0.14	0.0030	B438868
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC502	CRC503			CRC503		
Sampling Date		2024/07/10 09:35	2024/07/10 09:40			2024/07/10 09:40		
COC Number		C#729441-01-01	C#729441-01-01			C#729441-01-01		
	UNITS	CB-2	EB-1	RDL	QC Batch	EB-1 Lab-Dup	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.57	1.0	0.020	B436042			
Total Aluminum (Al)	mg/L	0.059	0.12	0.0030	B438868	0.10	0.0030	B438868
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B438868	<0.00060	0.00060	B438868
Total Arsenic (As)	mg/L	0.00039	0.00041	0.00020	B438868	0.00033	0.00020	B438868
Total Barium (Ba)	mg/L	<0.010	0.011	0.010	B438877	0.011	0.010	B438877
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B438868	<0.0010	0.0010	B438868
Total Boron (B)	mg/L	<0.020	<0.020	0.020	B438877	<0.020	0.020	B438877
Total Calcium (Ca)	mg/L	19	30	0.30	B438877	30	0.30	B438877
Total Chromium (Cr)	mg/L	0.0036	<0.0010	0.0010	B438868	<0.0010	0.0010	B438868
Total Cobalt (Co)	mg/L	0.00059	0.0011	0.00030	B438868	0.00098	0.00030	B438868
Total Copper (Cu)	mg/L	0.024	0.036	0.0010	B438868	0.030	0.0010	B438868
Total Iron (Fe)	mg/L	0.47	0.52	0.060	B438877	0.52	0.060	B438877
Total Lead (Pb)	mg/L	0.00036	<0.00020	0.00020	B438868	<0.00020	0.00020	B438868
Total Lithium (Li)	mg/L	<0.020	<0.020	0.020	B438877	<0.020	0.020	B438877
Total Magnesium (Mg)	mg/L	4.1	5.7	0.20	B438877	5.8	0.20	B438877
Total Manganese (Mn)	mg/L	0.039	0.084	0.0040	B438877	0.083	0.0040	B438877
Total Molybdenum (Mo)	mg/L	0.00062	<0.00020	0.00020	B438868	0.00023	0.00020	B438868
Total Nickel (Ni)	mg/L	0.0066	0.0021	0.00050	B438868	0.0020	0.00050	B438868
Total Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B438877	<0.10	0.10	B438877
Total Potassium (K)	mg/L	2.0	2.7	0.30	B438877	2.7	0.30	B438877
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B438868	<0.00020	0.00020	B438868
Total Silicon (Si)	mg/L	1.1	1.2	0.50	B438877	1.2	0.50	B438877
Total Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B438868	<0.00010	0.00010	B438868
Total Sodium (Na)	mg/L	2.2	2.5	0.50	B438877	2.5	0.50	B438877
Total Strontium (Sr)	mg/L	0.031	0.041	0.020	B438877	0.041	0.020	B438877
Total Sulphur (S)	mg/L	15	28	0.20	B438877	28	0.20	B438877
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B438868	<0.00020	0.00020	B438868
Total Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B438868	<0.0010	0.0010	B438868
Total Titanium (Ti)	mg/L	<0.0010	0.0019	0.0010	B438868	0.0020	0.0010	B438868
Total Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	B438868	<0.00010	0.00010	B438868
Total Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B438868	<0.0010	0.0010	B438868

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC502	CRC503			CRC503		
Sampling Date		2024/07/10 09:35	2024/07/10 09:40			2024/07/10 09:40		
COC Number		C#729441-01-01	C#729441-01-01			C#729441-01-01		
	UNITS	**CB-2**	**EB-1**	**RDL**	**QC Batch**	**EB-1 Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.16	0.23	0.0030	B438868	0.22	0.0030	B438868

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC504		CRC505		CRC506		
Sampling Date		2024/07/10 09:45		2024/07/10 10:00		2024/07/10 09:55		
COC Number		C#729441-01-01		C#729441-01-01		C#729441-01-01		
	UNITS	EB-2	QC Batch	NB-1	QC Batch	NB-2	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	1.0	B436042	0.72	B436042	0.52	0.020	B436042
Total Aluminum (Al)	mg/L	0.11	B438868	0.067	B438745	0.056	0.0030	B438868
Total Antimony (Sb)	mg/L	<0.00060	B438868	<0.00060	B438745	<0.00060	0.00060	B438868
Total Arsenic (As)	mg/L	0.00031	B438868	0.00052	B438745	0.00036	0.00020	B438868
Total Barium (Ba)	mg/L	0.011	B438877	<0.010	B438753	<0.010	0.010	B438877
Total Beryllium (Be)	mg/L	<0.0010	B438868	<0.0010	B438745	<0.0010	0.0010	B438868
Total Boron (B)	mg/L	<0.020	B438877	<0.020	B438753	<0.020	0.020	B438877
Total Calcium (Ca)	mg/L	32	B438877	19	B438753	18	0.30	B438877
Total Chromium (Cr)	mg/L	<0.0010	B438868	<0.0010	B438745	<0.0010	0.0010	B438868
Total Cobalt (Co)	mg/L	0.0012	B438868	0.00038	B438745	<0.00030	0.00030	B438868
Total Copper (Cu)	mg/L	0.033	B438868	0.034	B438745	0.024	0.0010	B438868
Total Iron (Fe)	mg/L	0.52	B438877	0.39	B438753	0.41	0.060	B438877
Total Lead (Pb)	mg/L	0.00056	B438868	<0.00020	B438745	<0.00020	0.00020	B438868
Total Lithium (Li)	mg/L	<0.020	B438877	<0.020	B438753	<0.020	0.020	B438877
Total Magnesium (Mg)	mg/L	5.9	B438877	3.9	B438753	4.0	0.20	B438877
Total Manganese (Mn)	mg/L	0.091	B438877	0.027	B438753	0.030	0.0040	B438877
Total Molybdenum (Mo)	mg/L	<0.00020	B438868	<0.00020	B438745	<0.00020	0.00020	B438868
Total Nickel (Ni)	mg/L	0.0024	B438868	0.0017	B438745	0.0012	0.00050	B438868
Total Phosphorus (P)	mg/L	<0.10	B438877	<0.10	B438753	<0.10	0.10	B438877
Total Potassium (K)	mg/L	2.8	B438877	1.9	B438753	2.0	0.30	B438877
Total Selenium (Se)	mg/L	<0.00020	B438868	<0.00020	B438745	<0.00020	0.00020	B438868
Total Silicon (Si)	mg/L	1.2	B438877	0.90	B438753	1.0	0.50	B438877
Total Silver (Ag)	mg/L	<0.00010	B438868	<0.00010	B438745	<0.00010	0.00010	B438868
Total Sodium (Na)	mg/L	2.5	B438877	2.0	B438753	2.0	0.50	B438877
Total Strontium (Sr)	mg/L	0.042	B438877	0.027	B438753	0.030	0.020	B438877
Total Sulphur (S)	mg/L	30	B438877	13	B438753	14	0.20	B438877
Total Thallium (Tl)	mg/L	<0.00020	B438868	<0.00020	B438745	<0.00020	0.00020	B438868
Total Tin (Sn)	mg/L	<0.0010	B438868	<0.0010	B438745	<0.0010	0.0010	B438868
Total Titanium (Ti)	mg/L	0.0019	B438868	0.0015	B438745	<0.0010	0.0010	B438868
Total Uranium (U)	mg/L	<0.00010	B438868	<0.00010	B438745	<0.00010	0.00010	B438868
Total Vanadium (V)	mg/L	<0.0010	B438868	<0.0010	B438745	<0.0010	0.0010	B438868

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC504		CRC505		CRC506		
Sampling Date		2024/07/10 09:45		2024/07/10 10:00		2024/07/10 09:55		
COC Number		C#729441-01-01		C#729441-01-01		C#729441-01-01		
	UNITS	**EB-2**	**QC Batch**	**NB-1**	**QC Batch**	**NB-2**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.28	B438868	0.22	B438745	0.16	0.0030	B438868
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC507	CRC508	CRC509		CRC510		
Sampling Date		2024/07/10 10:05	2024/07/10 08:38	2024/07/10 08:38		2024/07/10 08:45		
COC Number		C#729441-01-01	C#729441-02-01	C#729441-02-01		C#729441-02-01		
	UNITS	CLD	CL-3 SFC	CL-3 BTM	QC Batch	CL-7 SFC	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.51	0.34	0.27	B436042	0.37	0.020	B436042
Total Aluminum (Al)	mg/L	0.053	0.053	0.064	B438745	0.061	0.0030	B438868
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	B438745	<0.00060	0.00060	B438868
Total Arsenic (As)	mg/L	0.00033	0.00043	0.00051	B438745	0.00049	0.00020	B438868
Total Barium (Ba)	mg/L	0.011	<0.010	<0.010	B438753	<0.010	0.010	B438877
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	B438745	<0.0010	0.0010	B438868
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	B438753	<0.020	0.020	B438877
Total Calcium (Ca)	mg/L	19	16	14	B438753	16	0.30	B438877
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	B438745	<0.0010	0.0010	B438868
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	B438745	<0.00030	0.00030	B438868
Total Copper (Cu)	mg/L	0.025	0.019	0.017	B438745	0.019	0.0010	B438868
Total Iron (Fe)	mg/L	0.40	0.29	0.21	B438753	0.30	0.060	B438877
Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00021	B438745	0.00026	0.00020	B438868
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	B438753	<0.020	0.020	B438877
Total Magnesium (Mg)	mg/L	4.0	3.7	3.4	B438753	3.7	0.20	B438877
Total Manganese (Mn)	mg/L	0.028	0.017	0.013	B438753	0.019	0.0040	B438877
Total Molybdenum (Mo)	mg/L	<0.00020	0.00043	<0.00020	B438745	<0.00020	0.00020	B438868
Total Nickel (Ni)	mg/L	0.0011	0.00095	0.0011	B438745	0.00098	0.00050	B438868
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	B438753	<0.10	0.10	B438877
Total Potassium (K)	mg/L	1.9	1.7	1.6	B438753	1.8	0.30	B438877
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	B438745	<0.00020	0.00020	B438868
Total Silicon (Si)	mg/L	0.92	0.85	0.84	B438753	0.93	0.50	B438877
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	B438745	<0.00010	0.00010	B438868
Total Sodium (Na)	mg/L	2.0	2.0	1.9	B438753	2.0	0.50	B438877
Total Strontium (Sr)	mg/L	0.027	0.026	0.025	B438753	0.029	0.020	B438877
Total Sulphur (S)	mg/L	14	11	8.6	B438753	11	0.20	B438877
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	B438745	<0.00020	0.00020	B438868
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	B438745	<0.0010	0.0010	B438868
Total Titanium (Ti)	mg/L	<0.0010	0.0014	0.0019	B438745	0.0011	0.0010	B438868
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	B438745	<0.00010	0.00010	B438868
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	B438745	<0.0010	0.0010	B438868

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC507	CRC508	CRC509		CRC510		
Sampling Date		2024/07/10 10:05	2024/07/10 08:38	2024/07/10 08:38		2024/07/10 08:45		
COC Number		C#729441-01-01	C#729441-02-01	C#729441-02-01		C#729441-02-01		
	UNITS	**CLD**	**CL-3 SFC**	**CL-3 BTM**	**QC Batch**	**CL-7 SFC**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.16	0.11	0.093	B438745	0.11	0.0030	B438868
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC511	CRC512		CRC513		CRC514		
Sampling Date		2024/07/10 08:45	2024/07/10 08:30		2024/07/10 08:30		2024/07/10 08:55		
COC Number		C#729441-02-01	C#729441-02-01		C#729441-02-01		C#729441-02-01		
	UNITS	CL-7 BTM	CL-8 SFC	QC Batch	CL-8 BTM	QC Batch	CL-2 SFC	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.37	0.26	B436777	0.22	B436777	0.25	0.020	B436777
Total Aluminum (Al)	mg/L	0.083	0.061	B438745	0.059	B438868	0.055	0.0030	B438745
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B438745	<0.00060	B438868	<0.00060	0.00060	B438745
Total Arsenic (As)	mg/L	0.00071	0.00046	B438745	0.00041	B438868	0.00042	0.00020	B438745
Total Barium (Ba)	mg/L	0.010	0.15	B438753	<0.010	B438877	0.012	0.010	B438753
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B438745	<0.0010	B438868	<0.0010	0.0010	B438745
Total Boron (B)	mg/L	<0.020	<0.020	B438753	<0.020	B438877	<0.020	0.020	B438753
Total Calcium (Ca)	mg/L	14	14	B438753	14	B438877	15	0.30	B438753
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B438745	<0.0010	B438868	<0.0010	0.0010	B438745
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B438745	<0.00030	B438868	<0.00030	0.00030	B438745
Total Copper (Cu)	mg/L	0.022	0.017	B438745	0.013	B438868	0.015	0.0010	B438745
Total Iron (Fe)	mg/L	0.25	0.22	B438753	0.24	B438877	0.22	0.060	B438753
Total Lead (Pb)	mg/L	<0.00020	0.00034	B438745	<0.00020	B438868	<0.00020	0.00020	B438745
Total Lithium (Li)	mg/L	<0.020	<0.020	B438753	<0.020	B438877	<0.020	0.020	B438753
Total Magnesium (Mg)	mg/L	3.5	3.5	B438753	3.5	B438877	3.5	0.20	B438753
Total Manganese (Mn)	mg/L	0.015	0.014	B438753	0.016	B438877	0.014	0.0040	B438753
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B438745	<0.00020	B438868	0.00032	0.00020	B438745
Total Nickel (Ni)	mg/L	0.0013	0.0018	B438745	0.00084	B438868	0.00084	0.00050	B438745
Total Phosphorus (P)	mg/L	<0.10	<0.10	B438753	<0.10	B438877	<0.10	0.10	B438753
Total Potassium (K)	mg/L	1.7	1.7	B438753	1.7	B438877	1.6	0.30	B438753
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B438745	<0.00020	B438868	<0.00020	0.00020	B438745
Total Silicon (Si)	mg/L	0.82	0.82	B438753	0.92	B438877	0.83	0.50	B438753
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B438745	<0.00010	B438868	<0.00010	0.00010	B438745
Total Sodium (Na)	mg/L	1.9	2.2	B438753	2.0	B438877	2.0	0.50	B438753
Total Strontium (Sr)	mg/L	0.025	0.027	B438753	0.028	B438877	0.026	0.020	B438753
Total Sulphur (S)	mg/L	9.0	8.7	B438753	9.1	B438877	9.6	0.20	B438753
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B438745	<0.00020	B438868	<0.00020	0.00020	B438745
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B438745	<0.0010	B438868	<0.0010	0.0010	B438745
Total Titanium (Ti)	mg/L	0.0019	0.0015	B438745	0.0015	B438868	0.0010	0.0010	B438745
Total Uranium (U)	mg/L	<0.00010	<0.00010	B438745	<0.00010	B438868	<0.00010	0.00010	B438745
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B438745	<0.0010	B438868	<0.0010	0.0010	B438745

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC511	CRC512		CRC513		CRC514		
Sampling Date		2024/07/10 08:45	2024/07/10 08:30		2024/07/10 08:30		2024/07/10 08:55		
COC Number		C#729441-02-01	C#729441-02-01		C#729441-02-01		C#729441-02-01		
	UNITS	**CL-7 BTM**	**CL-8 SFC**	**QC Batch**	**CL-8 BTM**	**QC Batch**	**CL-2 SFC**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.12	0.094	B438745	0.071	B438868	0.083	0.0030	B438745
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC515		CRC516			CRC516		
Sampling Date		2024/07/10 08:55		2024/07/10 08:25			2024/07/10 08:25		
COC Number		C#729441-02-01		C#729441-02-01			C#729441-02-01		
	UNITS	CL-2 BTM	QC Batch	CL-4 SFC	RDL	QC Batch	CL-4 SFC Lab-Dup	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.19	B436777	0.22	0.020	B436777			
Total Aluminum (Al)	mg/L	0.051	B438868	0.087	0.0030	B438745	0.082	0.0030	B438745
Total Antimony (Sb)	mg/L	<0.00060	B438868	<0.00060	0.00060	B438745	<0.00060	0.00060	B438745
Total Arsenic (As)	mg/L	0.00042	B438868	0.00062	0.00020	B438745	0.00059	0.00020	B438745
Total Barium (Ba)	mg/L	<0.010	B438877	0.010	0.010	B438753	0.011	0.010	B438753
Total Beryllium (Be)	mg/L	<0.0010	B438868	<0.0010	0.0010	B438745	<0.0010	0.0010	B438745
Total Boron (B)	mg/L	<0.020	B438877	<0.020	0.020	B438753	<0.020	0.020	B438753
Total Calcium (Ca)	mg/L	15	B438877	13	0.30	B438753	13	0.30	B438753
Total Chromium (Cr)	mg/L	<0.0010	B438868	<0.0010	0.0010	B438745	<0.0010	0.0010	B438745
Total Cobalt (Co)	mg/L	<0.00030	B438868	<0.00030	0.00030	B438745	<0.00030	0.00030	B438745
Total Copper (Cu)	mg/L	0.012	B438868	0.017	0.0010	B438745	0.016	0.0010	B438745
Total Iron (Fe)	mg/L	0.24	B438877	0.19	0.060	B438753	0.19	0.060	B438753
Total Lead (Pb)	mg/L	<0.00020	B438868	<0.00020	0.00020	B438745	<0.00020	0.00020	B438745
Total Lithium (Li)	mg/L	<0.020	B438877	<0.020	0.020	B438753	<0.020	0.020	B438753
Total Magnesium (Mg)	mg/L	3.7	B438877	3.3	0.20	B438753	3.3	0.20	B438753
Total Manganese (Mn)	mg/L	0.015	B438877	0.012	0.0040	B438753	0.012	0.0040	B438753
Total Molybdenum (Mo)	mg/L	<0.00020	B438868	0.00024	0.00020	B438745	0.00021	0.00020	B438745
Total Nickel (Ni)	mg/L	0.00083	B438868	0.0011	0.00050	B438745	0.0014	0.00050	B438745
Total Phosphorus (P)	mg/L	<0.10	B438877	<0.10	0.10	B438753	<0.10	0.10	B438753
Total Potassium (K)	mg/L	1.7	B438877	1.5	0.30	B438753	1.5	0.30	B438753
Total Selenium (Se)	mg/L	<0.00020	B438868	<0.00020	0.00020	B438745	<0.00020	0.00020	B438745
Total Silicon (Si)	mg/L	0.95	B438877	0.81	0.50	B438753	0.82	0.50	B438753
Total Silver (Ag)	mg/L	<0.00010	B438868	<0.00010	0.00010	B438745	<0.00010	0.00010	B438745
Total Sodium (Na)	mg/L	2.1	B438877	2.0	0.50	B438753	2.0	0.50	B438753
Total Strontium (Sr)	mg/L	0.029	B438877	0.025	0.020	B438753	0.025	0.020	B438753
Total Sulphur (S)	mg/L	10	B438877	6.9	0.20	B438753	7.0	0.20	B438753
Total Thallium (Tl)	mg/L	<0.00020	B438868	<0.00020	0.00020	B438745	<0.00020	0.00020	B438745
Total Tin (Sn)	mg/L	<0.0010	B438868	<0.0010	0.0010	B438745	<0.0010	0.0010	B438745
Total Titanium (Ti)	mg/L	0.0011	B438868	0.0021	0.0010	B438745	0.0023	0.0010	B438745
Total Uranium (U)	mg/L	<0.00010	B438868	<0.00010	0.00010	B438745	<0.00010	0.00010	B438745
Total Vanadium (V)	mg/L	<0.0010	B438868	<0.0010	0.0010	B438745	<0.0010	0.0010	B438745

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC515		CRC516			CRC516		
Sampling Date		2024/07/10 08:55		2024/07/10 08:25			2024/07/10 08:25		
COC Number		C#729441-02-01		C#729441-02-01			C#729441-02-01		
	UNITS	**CL-2 BTM**	**QC Batch**	**CL-4 SFC**	**RDL**	**QC Batch**	**CL-4 SFC Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.064	B438868	0.077	0.0030	B438745	0.074	0.0030	B438745

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC517	CRC518	CRC519	CRC520	CRC521		
Sampling Date		2024/07/10 08:25	2024/07/10 08:15	2024/07/10 08:15	2024/07/10 08:05	2024/07/10 08:05		
COC Number		C#729441-02-01	C#729441-03-01	C#729441-03-01	C#729441-03-01	C#729441-03-01		
	UNITS	CL-4 BTM	CL-5 SFC	CL-5 BTM	CL-6 SFC	CL-6 BTM	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.18	0.20	0.21	0.11	0.13	0.020	B436777
Total Aluminum (Al)	mg/L	0.076	0.090	0.095	0.090	0.093	0.0030	B438745
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B438745
Total Arsenic (As)	mg/L	0.00064	0.00067	0.00077	0.00076	0.00086	0.00020	B438745
Total Barium (Ba)	mg/L	0.010	0.010	<0.010	<0.010	0.010	0.010	B438753
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B438745
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B438753
Total Calcium (Ca)	mg/L	13	13	12	11	11	0.30	B438753
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B438745
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B438745
Total Copper (Cu)	mg/L	0.013	0.015	0.015	0.0096	0.011	0.0010	B438745
Total Iron (Fe)	mg/L	0.42	0.30	0.18	0.16	0.17	0.060	B438753
Total Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00022	0.00020	B438745
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B438753
Total Magnesium (Mg)	mg/L	3.3	3.3	3.2	3.0	3.1	0.20	B438753
Total Manganese (Mn)	mg/L	0.024	0.012	0.011	0.012	0.013	0.0040	B438753
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	0.0011	0.00034	0.00020	B438745
Total Nickel (Ni)	mg/L	0.00095	0.0010	0.0010	0.00090	0.0012	0.00050	B438745
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B438753
Total Potassium (K)	mg/L	1.5	1.6	1.5	1.4	1.4	0.30	B438753
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B438745
Total Silicon (Si)	mg/L	0.95	0.79	0.76	0.65	0.73	0.50	B438753
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B438745
Total Sodium (Na)	mg/L	2.0	2.0	1.9	1.8	1.9	0.50	B438753
Total Strontium (Sr)	mg/L	0.026	0.025	0.024	0.024	0.024	0.020	B438753
Total Sulphur (S)	mg/L	8.0	6.7	6.4	4.8	5.0	0.20	B438753
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B438745
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B438745
Total Titanium (Ti)	mg/L	0.0023	0.0029	0.0029	0.0027	0.0032	0.0010	B438745
Total Uranium (U)	mg/L	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B438745
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0011	0.0010	B438745

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC517	CRC518	CRC519	CRC520	CRC521		
Sampling Date		2024/07/10 08:25	2024/07/10 08:15	2024/07/10 08:15	2024/07/10 08:05	2024/07/10 08:05		
COC Number		C#729441-02-01	C#729441-03-01	C#729441-03-01	C#729441-03-01	C#729441-03-01		
	UNITS	**CL-4 BTM**	**CL-5 SFC**	**CL-5 BTM**	**CL-6 SFC**	**CL-6 BTM**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.063	0.074	0.072	0.040	0.046	0.0030	B438745
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC522		CRC523	CRC524		CRC525		
Sampling Date		2024/07/10		2024/07/10	2024/07/10		2024/07/10 08:15		
COC Number		C#729441-03-01		C#729441-03-01	C#729441-03-01		C#729441-03-01		
	UNITS	SW-113	QC Batch	SW-114	SW-115	QC Batch	TRIP BLANK	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.13	B436777	0.27	0.46	B436777	<0.020	0.020	B436777
Total Aluminum (Al)	mg/L	0.070	B438745	0.057	0.064	B438868	0.0053	0.0030	B438745
Total Antimony (Sb)	mg/L	<0.00060	B438745	<0.00060	<0.00060	B438868	<0.00060	0.00060	B438745
Total Arsenic (As)	mg/L	0.00047	B438745	0.00041	0.00037	B438868	<0.00020	0.00020	B438745
Total Barium (Ba)	mg/L	<0.010	B438753	<0.010	<0.010	B438877	<0.010	0.010	B438753
Total Beryllium (Be)	mg/L	<0.0010	B438745	<0.0010	<0.0010	B438868	<0.0010	0.0010	B438745
Total Boron (B)	mg/L	<0.020	B438753	<0.020	<0.020	B438877	<0.020	0.020	B438753
Total Calcium (Ca)	mg/L	13	B438753	15	17	B438877	<0.30	0.30	B438753
Total Chromium (Cr)	mg/L	<0.0010	B438745	<0.0010	<0.0010	B438868	<0.0010	0.0010	B438745
Total Cobalt (Co)	mg/L	<0.00030	B438745	<0.00030	<0.00030	B438868	<0.00030	0.00030	B438745
Total Copper (Cu)	mg/L	0.0082	B438745	0.015	0.021	B438868	<0.0010	0.0010	B438745
Total Iron (Fe)	mg/L	0.27	B438753	0.26	0.39	B438877	<0.060	0.060	B438753
Total Lead (Pb)	mg/L	<0.00020	B438745	<0.00020	<0.00020	B438868	<0.00020	0.00020	B438745
Total Lithium (Li)	mg/L	<0.020	B438753	<0.020	<0.020	B438877	<0.020	0.020	B438753
Total Magnesium (Mg)	mg/L	3.3	B438753	3.7	3.8	B438877	<0.20	0.20	B438753
Total Manganese (Mn)	mg/L	0.016	B438753	0.016	0.030	B438877	<0.0040	0.0040	B438753
Total Molybdenum (Mo)	mg/L	<0.00020	B438745	<0.00020	<0.00020	B438868	<0.00020	0.00020	B438745
Total Nickel (Ni)	mg/L	0.00053	B438745	0.00089	0.00094	B438868	<0.00050	0.00050	B438745
Total Phosphorus (P)	mg/L	<0.10	B438753	<0.10	<0.10	B438877	<0.10	0.10	B438753
Total Potassium (K)	mg/L	1.6	B438753	1.8	1.9	B438877	<0.30	0.30	B438753
Total Selenium (Se)	mg/L	<0.00020	B438745	<0.00020	<0.00020	B438868	<0.00020	0.00020	B438745
Total Silicon (Si)	mg/L	0.95	B438753	0.93	1.0	B438877	<0.50	0.50	B438753
Total Silver (Ag)	mg/L	<0.00010	B438745	<0.00010	<0.00010	B438868	<0.00010	0.00010	B438745
Total Sodium (Na)	mg/L	2.0	B438753	2.1	2.0	B438877	<0.50	0.50	B438753
Total Strontium (Sr)	mg/L	0.026	B438753	0.029	0.029	B438877	<0.020	0.020	B438753
Total Sulphur (S)	mg/L	7.6	B438753	10	12	B438877	<0.20	0.20	B438753
Total Thallium (Tl)	mg/L	<0.00020	B438745	<0.00020	<0.00020	B438868	<0.00020	0.00020	B438745
Total Tin (Sn)	mg/L	<0.0010	B438745	<0.0010	<0.0010	B438868	<0.0010	0.0010	B438745
Total Titanium (Ti)	mg/L	0.0024	B438745	0.0015	<0.0010	B438868	<0.0010	0.0010	B438745
Total Uranium (U)	mg/L	<0.00010	B438745	<0.00010	<0.00010	B438868	<0.00010	0.00010	B438745
Total Vanadium (V)	mg/L	<0.0010	B438745	<0.0010	<0.0010	B438868	<0.0010	0.0010	B438745

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRC522		CRC523	CRC524		CRC525		
Sampling Date		2024/07/10		2024/07/10	2024/07/10		2024/07/10 08:15		
COC Number		C#729441-03-01		C#729441-03-01	C#729441-03-01		C#729441-03-01		
	UNITS	**SW-113**	**QC Batch**	**SW-114**	**SW-115**	**QC Batch**	**TRIP BLANK**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.040	B438745	0.082	0.14	B438868	<0.0030	0.0030	B438745
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C452412
Report Date: 2024/07/17

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AL

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC498		CRC499			CRC499		
Sampling Date		2024/07/10 10:30		2024/07/10 09:25			2024/07/10 09:25		
COC Number		C#729441-01-01		C#729441-01-01			C#729441-01-01		
	UNITS	SC-1	QC Batch	SB-1	RDL	QC Batch	SB-1 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	34	B436633	62	0.50	B436633			
Total Hardness (CaCO3)	mg/L	30.9	B436269	55.6	0.50	B436269			
Misc. Inorganics									
pH	pH	6.66	B438913	6.63	N/A	B440533			
Total Organic Carbon (C)	mg/L	14	B440754	12	0.50	B440754			
Total Suspended Solids	mg/L	2.6	B438336	1.3	1.0	B438337	<1.0	1.0	B438337
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	13	B441679	13	0.50	B440504			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B438912	<1.0	1.0	B440530			
Alkalinity (Total as CaCO3)	mg/L	28	B438912	23	1.0	B440530			
Bicarbonate (HCO3)	mg/L	34	B438912	28	1.0	B440530			
Carbonate (CO3)	mg/L	<1.0	B438912	<1.0	1.0	B440530			
Hydroxide (OH)	mg/L	<1.0	B438912	<1.0	1.0	B440530			
Chloride (Cl)	mg/L	1.1	B437803	1.1	1.0	B437803			
Sulphate (SO4)	mg/L	3.5	B437803	40	1.0	B437803			
Physical Properties									
Turbidity	NTU	1.5	B437566	1.5	0.10	B437566			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C452412
Report Date: 2024/07/17

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AL

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC500		CRC501		CRC502		
Sampling Date		2024/07/10 09:20		2024/07/10 09:30		2024/07/10 09:35		
COC Number		C#729441-01-01		C#729441-01-01		C#729441-01-01		
	UNITS	**SB-2**	**QC Batch**	**CB-1**	**QC Batch**	**CB-2**	**RDL**	**QC Batch**
Calculated Parameters								
Hardness (CaCO3)	mg/L	62	B436633	63	B436633	72	0.50	B436633
Total Hardness (CaCO3)	mg/L	55.4	B436269	58.2	B436269	63.9	0.50	B436269
Misc. Inorganics								
pH	pH	6.55	B438913	6.57	B438913	6.53	N/A	B438913
Total Organic Carbon (C)	mg/L	12	B440555	12	B440555	11	0.50	B440555
Total Suspended Solids	mg/L	1.1	B438337	1.3	B438337	1.0	1.0	B438337
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	11	B441679	12	B440504	11	0.50	B441679
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B438912	<1.0	B438912	<1.0	1.0	B438912
Alkalinity (Total as CaCO3)	mg/L	24	B438912	25	B438912	23	1.0	B438912
Bicarbonate (HCO3)	mg/L	30	B438912	30	B438912	28	1.0	B438912
Carbonate (CO3)	mg/L	<1.0	B438912	<1.0	B438912	<1.0	1.0	B438912
Hydroxide (OH)	mg/L	<1.0	B438912	<1.0	B438912	<1.0	1.0	B438912
Chloride (Cl)	mg/L	<1.0	B437803	<1.0	B437803	<1.0	1.0	B437803
Sulphate (SO4)	mg/L	37	B437803	39	B437803	46	1.0	B437803
Physical Properties								
Turbidity	NTU	1.7	B437566	1.6	B437566	1.5	0.10	B437566

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C452412
Report Date: 2024/07/17

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AL

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC503		CRC504			CRC504		
Sampling Date		2024/07/10 09:40		2024/07/10 09:45			2024/07/10 09:45		
COC Number		C#729441-01-01		C#729441-01-01			C#729441-01-01		
	UNITS	EB-1	QC Batch	EB-2	RDL	QC Batch	EB-2 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	110	B436633	110	0.50	B436633			
Total Hardness (CaCO3)	mg/L	98.9	B436269	103	0.50	B436269			
Misc. Inorganics									
pH	pH	6.46	B438913	6.41	N/A	B438913			
Total Organic Carbon (C)	mg/L	10	B440754	9.0	0.50	B440555			
Total Suspended Solids	mg/L	1.7	B438337	1.0	1.0	B438337			
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	8.7	B441679	8.5 (1)	0.50	B441679	8.7	0.50	B441679
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B438912	<1.0	1.0	B438912			
Alkalinity (Total as CaCO3)	mg/L	15	B438912	14	1.0	B438912			
Bicarbonate (HCO3)	mg/L	18	B438912	17	1.0	B438912			
Carbonate (CO3)	mg/L	<1.0	B438912	<1.0	1.0	B438912			
Hydroxide (OH)	mg/L	<1.0	B438912	<1.0	1.0	B438912			
Chloride (Cl)	mg/L	1.4	B437803	1.0	1.0	B437803			
Sulphate (SO4)	mg/L	97	B437803	96	1.0	B437803			
Physical Properties									
Turbidity	NTU	2.2	B437566	2.0	0.10	B437566			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Matrix spike exceeds acceptance limits due to matrix interference.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C452412
Report Date: 2024/07/17

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AL

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC505			CRC505			CRC506		
Sampling Date		2024/07/10 10:00			2024/07/10 10:00			2024/07/10 09:55		
COC Number		C#729441-01-01			C#729441-01-01			C#729441-01-01		
	UNITS	NB-1	RDL	QC Batch	NB-1 Lab-Dup	RDL	QC Batch	NB-2	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	70	0.50	B436633				67	0.50	B436633
Total Hardness (CaCO3)	mg/L	62.8	0.50	B436269				62.3	0.50	B436269
Misc. Inorganics										
pH	pH	6.38	N/A	B438913	6.55	N/A	B438913	6.51	N/A	B440533
Total Organic Carbon (C)	mg/L	11	0.50	B440555	12	0.50	B440555	11	0.50	B440754
Total Suspended Solids	mg/L	1.4	1.0	B438337				1.3	1.0	B438337
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B440504				11	0.50	B440504
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B438912	<1.0	1.0	B438912	<1.0	1.0	B440530
Alkalinity (Total as CaCO3)	mg/L	22	1.0	B438912	22	1.0	B438912	22	1.0	B440530
Bicarbonate (HCO3)	mg/L	27	1.0	B438912	27	1.0	B438912	27	1.0	B440530
Carbonate (CO3)	mg/L	<1.0	1.0	B438912	<1.0	1.0	B438912	<1.0	1.0	B440530
Hydroxide (OH)	mg/L	<1.0	1.0	B438912	<1.0	1.0	B438912	<1.0	1.0	B440530
Chloride (Cl)	mg/L	<1.0	1.0	B437804	<1.0	1.0	B437804	<1.0	1.0	B437804
Sulphate (SO4)	mg/L	46	1.0	B437804	46	1.0	B437804	43	1.0	B437804
Physical Properties										
Turbidity	NTU	1.4	0.10	B437567	1.4	0.10	B437567	1.4	0.10	B437567

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C452412
Report Date: 2024/07/17

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AL

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC506			CRC507			CRC507		
Sampling Date		2024/07/10 09:55			2024/07/10 10:05			2024/07/10 10:05		
COC Number		C#729441-01-01			C#729441-01-01			C#729441-01-01		
	UNITS	NB-2 Lab-Dup	RDL	QC Batch	CLD	RDL	QC Batch	CLD Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				72	0.50	B436633			
Total Hardness (CaCO3)	mg/L				62.9	0.50	B436269			
Misc. Inorganics										
pH	pH	6.61	N/A	B440533	6.63	N/A	B440533			
Total Organic Carbon (C)	mg/L				10	0.50	B441748	10	0.50	B441748
Total Suspended Solids	mg/L				<1.0	1.0	B438337			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L				10	0.50	B441679			
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B440530	<1.0	1.0	B440530			
Alkalinity (Total as CaCO3)	mg/L	23	1.0	B440530	22	1.0	B440530			
Bicarbonate (HCO3)	mg/L	28	1.0	B440530	27	1.0	B440530			
Carbonate (CO3)	mg/L	<1.0	1.0	B440530	<1.0	1.0	B440530			
Hydroxide (OH)	mg/L	<1.0	1.0	B440530	<1.0	1.0	B440530			
Chloride (Cl)	mg/L				<1.0	1.0	B437803			
Sulphate (SO4)	mg/L				50	1.0	B437803			
Physical Properties										
Turbidity	NTU				1.2	0.10	B437567			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C452412
Report Date: 2024/07/17

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AL

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC508		CRC509		CRC510	CRC511		
Sampling Date		2024/07/10 08:38		2024/07/10 08:38		2024/07/10 08:45	2024/07/10 08:45		
COC Number		C#729441-02-01		C#729441-02-01		C#729441-02-01	C#729441-02-01		
	UNITS	CL-3 SFC	QC Batch	CL-3 BTM	QC Batch	CL-7 SFC	CL-7 BTM	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	63	B436783	56	B436783	61	58	0.50	B436783
Total Hardness (CaCO3)	mg/L	55.4	B436269	48.8	B436269	54.8	50.4	0.50	B436269
Misc. Inorganics									
pH	pH	6.64	B440533	6.68	B440533	6.67	6.67	N/A	B440533
Total Organic Carbon (C)	mg/L	11	B440754	12	B440754	12	12	0.50	B440754
Total Suspended Solids	mg/L	<1.0	B438337	1.0	B438337	1.1	<1.0	1.0	B438337
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	12	B441679	12	B440504	11	11	0.50	B441679
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B440530	<1.0	B440530	<1.0	<1.0	1.0	B440530
Alkalinity (Total as CaCO3)	mg/L	24	B440530	25	B440530	24	24	1.0	B440530
Bicarbonate (HCO3)	mg/L	29	B440530	30	B440530	29	30	1.0	B440530
Carbonate (CO3)	mg/L	<1.0	B440530	<1.0	B440530	<1.0	<1.0	1.0	B440530
Hydroxide (OH)	mg/L	<1.0	B440530	<1.0	B440530	<1.0	<1.0	1.0	B440530
Chloride (Cl)	mg/L	<1.0	B437803	1.2	B437803	<1.0	<1.0	1.0	B437803
Sulphate (SO4)	mg/L	41	B437803	33	B437803	38	35	1.0	B437803
Physical Properties									
Turbidity	NTU	1.3	B437567	1.6	B437567	1.2	1.5	0.10	B437567

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C452412
Report Date: 2024/07/17

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AL

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC512		CRC513			CRC514		
Sampling Date		2024/07/10 08:30		2024/07/10 08:30			2024/07/10 08:55		
COC Number		C#729441-02-01		C#729441-02-01			C#729441-02-01		
	UNITS	CL-8 SFC	RDL	CL-8 BTM	RDL	QC Batch	CL-2 SFC	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	56	0.50	55	0.50	B436783	59	0.50	B436783
Total Hardness (CaCO3)	mg/L	50.5	0.50	50.0	0.50	B436269	51.9	0.50	B436269
Misc. Inorganics									
pH	pH	6.53	N/A	6.59	N/A	B438913	6.59	N/A	B438913
Total Organic Carbon (C)	mg/L	12	0.50	12	0.50	B440754	11	0.50	B441748
Total Suspended Solids	mg/L	1.1	1.0	<0.99	0.99	B438337	1.1	1.0	B438337
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	13	0.50	12	0.50	B440504	13	0.50	B440504
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	<1.0	1.0	B438912	<1.0	1.0	B438912
Alkalinity (Total as CaCO3)	mg/L	25	1.0	26	1.0	B438912	25	1.0	B438912
Bicarbonate (HCO3)	mg/L	30	1.0	32	1.0	B438912	30	1.0	B438912
Carbonate (CO3)	mg/L	<1.0	1.0	<1.0	1.0	B438912	<1.0	1.0	B438912
Hydroxide (OH)	mg/L	<1.0	1.0	<1.0	1.0	B438912	<1.0	1.0	B438912
Chloride (Cl)	mg/L	<1.0	1.0	<1.0	1.0	B437804	<1.0	1.0	B437804
Sulphate (SO4)	mg/L	33	1.0	32	1.0	B437804	36	1.0	B437804
Physical Properties									
Turbidity	NTU	1.3	0.10	1.2	0.10	B437567	1.3	0.10	B437567

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C452412
Report Date: 2024/07/17

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AL

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC515	CRC516	CRC517		CRC518		
Sampling Date		2024/07/10 08:55	2024/07/10 08:25	2024/07/10 08:25		2024/07/10 08:15		
COC Number		C#729441-02-01	C#729441-02-01	C#729441-02-01		C#729441-03-01		
	UNITS	CL-2 BTM	CL-4 SFC	CL-4 BTM	QC Batch	CL-5 SFC	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	58	50	54	B436783	49	0.50	B436783
Total Hardness (CaCO3)	mg/L	52.9	45.6	46.8	B436269	45.3	0.50	B436269
Misc. Inorganics								
pH	pH	6.64	6.61	6.53	B438913	6.70	N/A	B440533
Total Organic Carbon (C)	mg/L	11	12	10	B440754	12	0.50	B440754
Total Suspended Solids	mg/L	<1.0	1.1	1.1	B438337	1.5	1.0	B438337
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	11	12	11	B440504	12	0.50	B440504
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	<1.0	B438912	<1.0	1.0	B440530
Alkalinity (Total as CaCO3)	mg/L	25	26	26	B438912	25	1.0	B440530
Bicarbonate (HCO3)	mg/L	30	32	32	B438912	31	1.0	B440530
Carbonate (CO3)	mg/L	<1.0	<1.0	<1.0	B438912	<1.0	1.0	B440530
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	B438912	<1.0	1.0	B440530
Chloride (Cl)	mg/L	<1.0	<1.0	<1.0	B437804	<1.0	1.0	B437804
Sulphate (SO4)	mg/L	34	27	30	B437804	25	1.0	B437804
Physical Properties								
Turbidity	NTU	1.5	1.5	3.5	B437567	1.6	0.10	B437567

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C452412
Report Date: 2024/07/17

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AL

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC519			CRC519			CRC520		
Sampling Date		2024/07/10 08:15			2024/07/10 08:15			2024/07/10 08:05		
COC Number		C#729441-03-01			C#729441-03-01			C#729441-03-01		
	UNITS	CL-5 BTM	RDL	QC Batch	CL-5 BTM Lab-Dup	RDL	QC Batch	CL-6 SFC	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	49	0.50	B436783				45	0.50	B436783
Total Hardness (CaCO3)	mg/L	43.3	0.50	B436269				38.8	0.50	B436269
Misc. Inorganics										
pH	pH	6.65	N/A	B438913				6.67	N/A	B438913
Total Organic Carbon (C)	mg/L	9.7	0.50	B440754	10	0.50	B440754	14	0.50	B440754
Total Suspended Solids	mg/L	<1.0	1.0	B438346	1.1	1.0	B438346	1.7	1.0	B438346
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	13	0.50	B440504				13	0.50	B440504
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B438912				<1.0	1.0	B438912
Alkalinity (Total as CaCO3)	mg/L	26	1.0	B438912				27	1.0	B438912
Bicarbonate (HCO3)	mg/L	32	1.0	B438912				33	1.0	B438912
Carbonate (CO3)	mg/L	<1.0	1.0	B438912				<1.0	1.0	B438912
Hydroxide (OH)	mg/L	<1.0	1.0	B438912				<1.0	1.0	B438912
Chloride (Cl)	mg/L	1.0	1.0	B437805				<1.0	1.0	B437804
Sulphate (SO4)	mg/L	25	1.0	B437805				20	1.0	B437804
Physical Properties										
Turbidity	NTU	1.7	0.10	B437567				1.6	0.10	B437567

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C452412
Report Date: 2024/07/17

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AL

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC521		CRC522		CRC523		CRC524		
Sampling Date		2024/07/10 08:05		2024/07/10		2024/07/10		2024/07/10		
COC Number		C#729441-03-01		C#729441-03-01		C#729441-03-01		C#729441-03-01		
	UNITS	CL-6 BTM	RDL	SW-113	QC Batch	SW-114	QC Batch	SW-115	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	45	0.50	49	B436783	59	B436783	64	0.50	B436783
Total Hardness (CaCO3)	mg/L	40.5	0.50	46.9	B436790	53.4	B436790	58.3	0.50	B436790
Misc. Inorganics										
pH	pH	6.69	N/A	6.68	B438913	6.63	B438913	6.57	N/A	B438913
Total Organic Carbon (C)	mg/L	11	0.50	10	B440754	11	B440754	11	0.50	B440754
Total Suspended Solids	mg/L	1.5	0.99	<1.0	B438346	<1.0	B438346	<1.0	1.0	B438346
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	12	0.50	12	B440504	11	B440504	11	0.50	B440504
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	<1.0	B438912	<1.0	B438912	<1.0	1.0	B438912
Alkalinity (Total as CaCO3)	mg/L	27	1.0	26	B438912	25	B438912	24	1.0	B438912
Bicarbonate (HCO3)	mg/L	33	1.0	32	B438912	30	B438912	30	1.0	B438912
Carbonate (CO3)	mg/L	<1.0	1.0	<1.0	B438912	<1.0	B438912	<1.0	1.0	B438912
Hydroxide (OH)	mg/L	<1.0	1.0	<1.0	B438912	<1.0	B438912	<1.0	1.0	B438912
Chloride (Cl)	mg/L	<1.0	1.0	<1.0	B437804	<1.0	B437803	<1.0	1.0	B437804
Sulphate (SO4)	mg/L	20	1.0	25	B437804	37	B437803	39	1.0	B437804
Physical Properties										
Turbidity	NTU	1.9	0.10	1.8	B437567	1.6	B437567	1.4	0.10	B437567

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC525			CRC525		
Sampling Date		2024/07/10 08:15			2024/07/10 08:15		
COC Number		C#729441-03-01			C#729441-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	<0.50	0.50	B436783			
Total Hardness (CaCO3)	mg/L	<0.50	0.50	B436790			
Misc. Inorganics							
pH	pH	5.29	N/A	B438913			
Total Organic Carbon (C)	mg/L	<0.50	0.50	B441748			
Total Suspended Solids	mg/L	<1.0	1.0	B438346			
Lab Filtered Inorganics							
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	B440504			
Anions							
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B438912			
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	B438912			
Bicarbonate (HCO3)	mg/L	<1.0	1.0	B438912			
Carbonate (CO3)	mg/L	<1.0	1.0	B438912			
Hydroxide (OH)	mg/L	<1.0	1.0	B438912			
Chloride (Cl)	mg/L	<1.0	1.0	B437804			
Sulphate (SO4)	mg/L	<1.0	1.0	B437804			
Physical Properties							
Turbidity	NTU	<0.10	0.10	B437571	<0.10	0.10	B437571

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.5°C
Package 2	4.6°C
Package 3	1.7°C
Package 4	8.5°C

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B437566	Turbidity	2024/07/13			100	80 - 120	<0.10	NTU	1.0	20
B437567	Turbidity	2024/07/13			102	80 - 120	<0.10	NTU	1.4	20
B437571	Turbidity	2024/07/13			100	80 - 120	<0.10	NTU	NC	20
B437803	Chloride (Cl)	2024/07/14	106	80 - 120	103	80 - 120	<1.0	mg/L	0.65	20
B437803	Sulphate (SO4)	2024/07/14	99	80 - 120	100	80 - 120	<1.0	mg/L	0.76	20
B437804	Chloride (Cl)	2024/07/15	109	80 - 120	102	80 - 120	<1.0	mg/L	NC	20
B437804	Sulphate (SO4)	2024/07/15	107	80 - 120	97	80 - 120	<1.0	mg/L	0.80	20
B437805	Chloride (Cl)	2024/07/15	101	80 - 120	103	80 - 120	<1.0	mg/L	0.86	20
B437805	Sulphate (SO4)	2024/07/15	85	80 - 120	98	80 - 120	<1.0	mg/L	0.82	20
B437945	Dissolved Aluminum (Al)	2024/07/14	104	80 - 120	106	80 - 120	<0.0030	mg/L	7.9	20
B437945	Dissolved Antimony (Sb)	2024/07/14	111	80 - 120	120	80 - 120	<0.00060	mg/L	NC	20
B437945	Dissolved Arsenic (As)	2024/07/14	102	80 - 120	109	80 - 120	<0.00020	mg/L	11	20
B437945	Dissolved Beryllium (Be)	2024/07/14	98	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20
B437945	Dissolved Chromium (Cr)	2024/07/14	91	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B437945	Dissolved Cobalt (Co)	2024/07/14	95	80 - 120	103	80 - 120	<0.00030	mg/L	NC	20
B437945	Dissolved Copper (Cu)	2024/07/14	92	80 - 120	99	80 - 120	<0.0010	mg/L	9.3	20
B437945	Dissolved Lead (Pb)	2024/07/14	100	80 - 120	108	80 - 120	<0.00020	mg/L	NC	20
B437945	Dissolved Molybdenum (Mo)	2024/07/14	101	80 - 120	107	80 - 120	<0.00020	mg/L	NC	20
B437945	Dissolved Nickel (Ni)	2024/07/14	92	80 - 120	100	80 - 120	<0.00050	mg/L	5.3	20
B437945	Dissolved Selenium (Se)	2024/07/14	103	80 - 120	110	80 - 120	<0.00020	mg/L	NC	20
B437945	Dissolved Silver (Ag)	2024/07/14	99	80 - 120	106	80 - 120	<0.00010	mg/L	NC	20
B437945	Dissolved Thallium (Tl)	2024/07/14	98	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20
B437945	Dissolved Tin (Sn)	2024/07/14	106	80 - 120	114	80 - 120	<0.0010	mg/L	NC	20
B437945	Dissolved Titanium (Ti)	2024/07/14	93	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B437945	Dissolved Uranium (U)	2024/07/14	98	80 - 120	105	80 - 120	<0.00010	mg/L	NC	20
B437945	Dissolved Vanadium (V)	2024/07/14	97	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B437945	Dissolved Zinc (Zn)	2024/07/14	NC	80 - 120	105	80 - 120	<0.0030	mg/L	7.9	20
B438049	Dissolved Barium (Ba)	2024/07/14	100	80 - 120	98	80 - 120	<0.010	mg/L	0.0075	20
B438049	Dissolved Boron (B)	2024/07/14	97	80 - 120	92	80 - 120	<0.020	mg/L	3.9	20
B438049	Dissolved Calcium (Ca)	2024/07/14	101	80 - 120	99	80 - 120	<0.30	mg/L	1.1	20
B438049	Dissolved Iron (Fe)	2024/07/14	106	80 - 120	97	80 - 120	<0.060	mg/L	NC	20
B438049	Dissolved Lithium (Li)	2024/07/14	92	80 - 120	94	80 - 120	<0.020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B438049	Dissolved Magnesium (Mg)	2024/07/14	105	80 - 120	102	80 - 120	<0.20	mg/L	0.024	20
B438049	Dissolved Manganese (Mn)	2024/07/14	102	80 - 120	93	80 - 120	<0.0040	mg/L	NC	20
B438049	Dissolved Phosphorus (P)	2024/07/14	107	80 - 120	96	80 - 120	<0.10	mg/L	NC	20
B438049	Dissolved Potassium (K)	2024/07/14	104	80 - 120	100	80 - 120	<0.30	mg/L	6.2	20
B438049	Dissolved Silicon (Si)	2024/07/14	98	80 - 120	91	80 - 120	<0.50	mg/L	2.2	20
B438049	Dissolved Sodium (Na)	2024/07/14	101	80 - 120	99	80 - 120	<0.50	mg/L	0.95	20
B438049	Dissolved Strontium (Sr)	2024/07/14	97	80 - 120	95	80 - 120	<0.020	mg/L	0.69	20
B438049	Dissolved Sulphur (S)	2024/07/14	101	80 - 120	91	80 - 120	<0.20	mg/L	2.2	20
B438050	Dissolved Barium (Ba)	2024/07/14	97	80 - 120	98	80 - 120	<0.010	mg/L	1.9	20
B438050	Dissolved Boron (B)	2024/07/14	95	80 - 120	93	80 - 120	<0.020	mg/L	NC	20
B438050	Dissolved Calcium (Ca)	2024/07/14	99	80 - 120	98	80 - 120	<0.30	mg/L	0.76	20
B438050	Dissolved Iron (Fe)	2024/07/14	102	80 - 120	96	80 - 120	<0.060	mg/L	3.2	20
B438050	Dissolved Lithium (Li)	2024/07/14	90	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B438050	Dissolved Magnesium (Mg)	2024/07/14	101	80 - 120	100	80 - 120	<0.20	mg/L	0.031	20
B438050	Dissolved Manganese (Mn)	2024/07/14	99	80 - 120	92	80 - 120	<0.0040	mg/L	NC	20
B438050	Dissolved Phosphorus (P)	2024/07/14	103	80 - 120	97	80 - 120	<0.10	mg/L	NC	20
B438050	Dissolved Potassium (K)	2024/07/14	100	80 - 120	101	80 - 120	<0.30	mg/L	0.077	20
B438050	Dissolved Silicon (Si)	2024/07/14	96	80 - 120	92	80 - 120	<0.50	mg/L	2.2	20
B438050	Dissolved Sodium (Na)	2024/07/14	98	80 - 120	99	80 - 120	<0.50	mg/L	0.61	20
B438050	Dissolved Strontium (Sr)	2024/07/14	95	80 - 120	96	80 - 120	<0.020	mg/L	0.65	20
B438050	Dissolved Sulphur (S)	2024/07/14	100	80 - 120	92	80 - 120	<0.20	mg/L	0.67	20
B438336	Total Suspended Solids	2024/07/16	97	80 - 120	88	80 - 120	<1.0	mg/L	20	20
B438337	Total Suspended Solids	2024/07/15	96	80 - 120	97	80 - 120	<1.0	mg/L	NC	20
B438346	Total Suspended Solids	2024/07/15	96	80 - 120	97	80 - 120	<1.0	mg/L	6.5	20
B438481	Dissolved Aluminum (Al)	2024/07/15	113	80 - 120	109	80 - 120	<0.0030	mg/L	0.62	20
B438481	Dissolved Antimony (Sb)	2024/07/15	102	80 - 120	103	80 - 120	<0.00060	mg/L	NC	20
B438481	Dissolved Arsenic (As)	2024/07/15	103	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B438481	Dissolved Beryllium (Be)	2024/07/15	96	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B438481	Dissolved Chromium (Cr)	2024/07/15	96	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B438481	Dissolved Cobalt (Co)	2024/07/15	95	80 - 120	98	80 - 120	<0.00030	mg/L	NC	20
B438481	Dissolved Copper (Cu)	2024/07/15	99	80 - 120	102	80 - 120	<0.0010	mg/L	0.19	20
B438481	Dissolved Lead (Pb)	2024/07/15	99	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B438481	Dissolved Molybdenum (Mo)	2024/07/15	98	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B438481	Dissolved Nickel (Ni)	2024/07/15	98	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20
B438481	Dissolved Selenium (Se)	2024/07/15	104	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B438481	Dissolved Silver (Ag)	2024/07/15	95	80 - 120	94	80 - 120	<0.00010	mg/L	NC	20
B438481	Dissolved Thallium (Tl)	2024/07/15	101	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B438481	Dissolved Tin (Sn)	2024/07/15	97	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B438481	Dissolved Titanium (Ti)	2024/07/15	98	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B438481	Dissolved Uranium (U)	2024/07/15	99	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20
B438481	Dissolved Vanadium (V)	2024/07/15	99	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B438481	Dissolved Zinc (Zn)	2024/07/15	NC	80 - 120	101	80 - 120	<0.0030	mg/L	0.22	20
B438745	Total Aluminum (Al)	2024/07/15	117	80 - 120	99	80 - 120	<0.0030	mg/L	5.3	20
B438745	Total Antimony (Sb)	2024/07/15	99	80 - 120	110	80 - 120	<0.00060	mg/L	NC	20
B438745	Total Arsenic (As)	2024/07/15	95	80 - 120	103	80 - 120	<0.00020	mg/L	6.1	20
B438745	Total Beryllium (Be)	2024/07/15	105	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B438745	Total Chromium (Cr)	2024/07/15	97	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B438745	Total Cobalt (Co)	2024/07/15	98	80 - 120	101	80 - 120	<0.00030	mg/L	NC	20
B438745	Total Copper (Cu)	2024/07/15	98	80 - 120	102	80 - 120	<0.0010	mg/L	9.3	20
B438745	Total Lead (Pb)	2024/07/15	99	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B438745	Total Molybdenum (Mo)	2024/07/15	102	80 - 120	106	80 - 120	<0.00020	mg/L	18	20
B438745	Total Nickel (Ni)	2024/07/15	97	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20
B438745	Total Selenium (Se)	2024/07/15	91	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B438745	Total Silver (Ag)	2024/07/15	100	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B438745	Total Thallium (Tl)	2024/07/15	98	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B438745	Total Tin (Sn)	2024/07/15	98	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
B438745	Total Titanium (Ti)	2024/07/15	93	80 - 120	107	80 - 120	<0.0010	mg/L	11	20
B438745	Total Uranium (U)	2024/07/15	102	80 - 120	102	80 - 120	<0.00010	mg/L	NC	20
B438745	Total Vanadium (V)	2024/07/15	98	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B438745	Total Zinc (Zn)	2024/07/15	93	80 - 120	101	80 - 120	<0.0030	mg/L	4.0	20
B438753	Total Barium (Ba)	2024/07/15	95	80 - 120	95	80 - 120	<0.010	mg/L	6.4	20
B438753	Total Boron (B)	2024/07/15	93	80 - 120	93	80 - 120	<0.020	mg/L	NC	20
B438753	Total Calcium (Ca)	2024/07/15	95	80 - 120	93	80 - 120	<0.30	mg/L	0.87	20
B438753	Total Iron (Fe)	2024/07/15	94	80 - 120	91	80 - 120	<0.060	mg/L	2.1	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B438753	Total Lithium (Li)	2024/07/15	91	80 - 120	90	80 - 120	<0.020	mg/L	NC	20
B438753	Total Magnesium (Mg)	2024/07/15	94	80 - 120	95	80 - 120	<0.20	mg/L	0.30	20
B438753	Total Manganese (Mn)	2024/07/15	86	80 - 120	86	80 - 120	<0.0040	mg/L	0.17	20
B438753	Total Phosphorus (P)	2024/07/15	89	80 - 120	90	80 - 120	<0.10	mg/L	NC	20
B438753	Total Potassium (K)	2024/07/15	94	80 - 120	93	80 - 120	<0.30	mg/L	2.9	20
B438753	Total Silicon (Si)	2024/07/15	85	80 - 120	86	80 - 120	<0.50	mg/L	1.1	20
B438753	Total Sodium (Na)	2024/07/15	94	80 - 120	94	80 - 120	<0.50	mg/L	0.36	20
B438753	Total Strontium (Sr)	2024/07/15	94	80 - 120	93	80 - 120	<0.020	mg/L	1.4	20
B438753	Total Sulphur (S)	2024/07/15	87	80 - 120	88	80 - 120	<0.20	mg/L	2.0	20
B438868	Total Aluminum (Al)	2024/07/16	113	80 - 120	105	80 - 120	<0.0030	mg/L	18	20
B438868	Total Antimony (Sb)	2024/07/16	100	80 - 120	109	80 - 120	<0.00060	mg/L	NC	20
B438868	Total Arsenic (As)	2024/07/16	118	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B438868	Total Beryllium (Be)	2024/07/16	112	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B438868	Total Chromium (Cr)	2024/07/16	112	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B438868	Total Cobalt (Co)	2024/07/16	110	80 - 120	99	80 - 120	<0.00030	mg/L	13	20
B438868	Total Copper (Cu)	2024/07/16	111	80 - 120	103	80 - 120	<0.0010	mg/L	17	20
B438868	Total Lead (Pb)	2024/07/16	117	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B438868	Total Molybdenum (Mo)	2024/07/16	105	80 - 120	105	80 - 120	<0.00020	mg/L	13	20
B438868	Total Nickel (Ni)	2024/07/16	112	80 - 120	102	80 - 120	<0.00050	mg/L	6.2	20
B438868	Total Selenium (Se)	2024/07/16	117	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20
B438868	Total Silver (Ag)	2024/07/16	111	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B438868	Total Thallium (Tl)	2024/07/16	94	80 - 120	111	80 - 120	<0.00020	mg/L	NC	20
B438868	Total Tin (Sn)	2024/07/16	120	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20
B438868	Total Titanium (Ti)	2024/07/16	116	80 - 120	102	80 - 120	<0.0010	mg/L	8.3	20
B438868	Total Uranium (U)	2024/07/16	120	80 - 120	105	80 - 120	<0.00010	mg/L	NC	20
B438868	Total Vanadium (V)	2024/07/16	117	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B438868	Total Zinc (Zn)	2024/07/16	115	80 - 120	104	80 - 120	<0.0030	mg/L	3.5	20
B438877	Total Barium (Ba)	2024/07/16	96	80 - 120	96	80 - 120	<0.010	mg/L	2.7	20
B438877	Total Boron (B)	2024/07/16	98	80 - 120	98	80 - 120	<0.020	mg/L	NC	20
B438877	Total Calcium (Ca)	2024/07/16	97	80 - 120	97	80 - 120	<0.30	mg/L	0.31	20
B438877	Total Iron (Fe)	2024/07/16	95	80 - 120	103	80 - 120	<0.060	mg/L	0.66	20
B438877	Total Lithium (Li)	2024/07/16	98	80 - 120	98	80 - 120	<0.020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B438877	Total Magnesium (Mg)	2024/07/16	96	80 - 120	98	80 - 120	<0.20	mg/L	0.95	20
B438877	Total Manganese (Mn)	2024/07/16	97	80 - 120	100	80 - 120	<0.0040	mg/L	0.84	20
B438877	Total Phosphorus (P)	2024/07/16	97	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B438877	Total Potassium (K)	2024/07/16	100	80 - 120	99	80 - 120	<0.30	mg/L	1.5	20
B438877	Total Silicon (Si)	2024/07/16	96	80 - 120	98	80 - 120	<0.50	mg/L	1.4	20
B438877	Total Sodium (Na)	2024/07/16	97	80 - 120	97	80 - 120	<0.50	mg/L	0.11	20
B438877	Total Strontium (Sr)	2024/07/16	93	80 - 120	94	80 - 120	<0.020	mg/L	0	20
B438877	Total Sulphur (S)	2024/07/16	95	80 - 120	90	80 - 120	<0.20	mg/L	0.40	20
B438912	Alkalinity (PP as CaCO3)	2024/07/16					<1.0	mg/L	NC	20
B438912	Alkalinity (Total as CaCO3)	2024/07/16			99	80 - 120	<1.0	mg/L	0.16	20
B438912	Bicarbonate (HCO3)	2024/07/16					<1.0	mg/L	0.16	20
B438912	Carbonate (CO3)	2024/07/16					<1.0	mg/L	NC	20
B438912	Hydroxide (OH)	2024/07/16					<1.0	mg/L	NC	20
B438913	pH	2024/07/16			100	97 - 103			2.6	N/A
B440308	Total Aluminum (Al)	2024/07/16	120	80 - 120	112	80 - 120	<0.0030	mg/L	3.1	20
B440308	Total Antimony (Sb)	2024/07/16	110	80 - 120	116	80 - 120	<0.00060	mg/L	NC	20
B440308	Total Arsenic (As)	2024/07/16	113	80 - 120	118	80 - 120	<0.00020	mg/L	14	20
B440308	Total Beryllium (Be)	2024/07/16	106	80 - 120	112	80 - 120	<0.0010	mg/L	NC	20
B440308	Total Chromium (Cr)	2024/07/16	109	80 - 120	115	80 - 120	<0.0010	mg/L	NC	20
B440308	Total Cobalt (Co)	2024/07/16	107	80 - 120	116	80 - 120	<0.00030	mg/L	0.82	20
B440308	Total Copper (Cu)	2024/07/16	103	80 - 120	117	80 - 120	<0.0010	mg/L	NC	20
B440308	Total Lead (Pb)	2024/07/16	101	80 - 120	114	80 - 120	<0.00020	mg/L	NC	20
B440308	Total Molybdenum (Mo)	2024/07/16	116	80 - 120	113	80 - 120	<0.00020	mg/L	NC	20
B440308	Total Nickel (Ni)	2024/07/16	105	80 - 120	116	80 - 120	<0.00050	mg/L	0	20
B440308	Total Selenium (Se)	2024/07/16	109	80 - 120	114	80 - 120	<0.00020	mg/L	NC	20
B440308	Total Silver (Ag)	2024/07/16	103	80 - 120	112	80 - 120	<0.00010	mg/L	NC	20
B440308	Total Thallium (Tl)	2024/07/16	101	80 - 120	113	80 - 120	<0.00020	mg/L	NC	20
B440308	Total Tin (Sn)	2024/07/16	111	80 - 120	112	80 - 120	<0.0010	mg/L	NC	20
B440308	Total Titanium (Ti)	2024/07/16	111	80 - 120	112	80 - 120	<0.0010	mg/L	25 (1)	20
B440308	Total Uranium (U)	2024/07/16	109	80 - 120	113	80 - 120	<0.00010	mg/L	4.7	20
B440308	Total Vanadium (V)	2024/07/16	115	80 - 120	117	80 - 120	<0.0010	mg/L	14	20
B440308	Total Zinc (Zn)	2024/07/16	104	80 - 120	118	80 - 120	<0.0030	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B440312	Total Barium (Ba)	2024/07/16	95	80 - 120	94	80 - 120	<0.010	mg/L	1.7	20
B440312	Total Boron (B)	2024/07/16	95	80 - 120	94	80 - 120	<0.020	mg/L	0.95	20
B440312	Total Calcium (Ca)	2024/07/16	81	80 - 120	94	80 - 120	<0.30	mg/L	1.6	20
B440312	Total Iron (Fe)	2024/07/16	NC	80 - 120	106	80 - 120	<0.060	mg/L	0.94	20
B440312	Total Lithium (Li)	2024/07/16	93	80 - 120	92	80 - 120	<0.020	mg/L	2.0	20
B440312	Total Magnesium (Mg)	2024/07/16	86	80 - 120	90	80 - 120	<0.20	mg/L	1.7	20
B440312	Total Manganese (Mn)	2024/07/16	98	80 - 120	98	80 - 120	<0.0040	mg/L	1.6	20
B440312	Total Phosphorus (P)	2024/07/16	108	80 - 120	104	80 - 120	<0.10	mg/L	2.0	20
B440312	Total Potassium (K)	2024/07/16	92	80 - 120	93	80 - 120	<0.30	mg/L	1.6	20
B440312	Total Silicon (Si)	2024/07/16	NC	80 - 120	94	80 - 120	<0.50	mg/L	0.43	20
B440312	Total Sodium (Na)	2024/07/16	73 (1)	80 - 120	91	80 - 120	<0.50	mg/L	1.2	20
B440312	Total Strontium (Sr)	2024/07/16	91	80 - 120	91	80 - 120	<0.020	mg/L	1.2	20
B440312	Total Sulphur (S)	2024/07/16	97	80 - 120	99	80 - 120	<0.20	mg/L	3.5	20
B440504	Dissolved Organic Carbon (C)	2024/07/16	NC	80 - 120	97	80 - 120	<0.50	mg/L	8.7	20
B440530	Alkalinity (PP as CaCO3)	2024/07/16					<1.0	mg/L	NC	20
B440530	Alkalinity (Total as CaCO3)	2024/07/16			97	80 - 120	<1.0	mg/L	1.3	20
B440530	Bicarbonate (HCO3)	2024/07/16					<1.0	mg/L	1.3	20
B440530	Carbonate (CO3)	2024/07/16					<1.0	mg/L	NC	20
B440530	Hydroxide (OH)	2024/07/16					<1.0	mg/L	NC	20
B440533	pH	2024/07/16			100	97 - 103			1.5	N/A
B440555	Total Organic Carbon (C)	2024/07/16	NC	80 - 120	110	80 - 120	<0.50	mg/L	0.89	20
B440754	Total Organic Carbon (C)	2024/07/16	119	80 - 120	107	80 - 120	<0.50	mg/L	3.1	20
B441679	Dissolved Organic Carbon (C)	2024/07/17	127 (1)	80 - 120	98	80 - 120	<0.50	mg/L	2.5	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B441748	Total Organic Carbon (C)	2024/07/17	NC	80 - 120	100	80 - 120	<0.50	mg/L	0.50	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			729441
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#729441-01-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com	Sampled By	AL/AV		

Regulatory Criteria: MWQSOG

Special Instructions

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		SC-1	21/07/10	10:30	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze turbidity + DOC
2		SB-1		9:25				X	X	X	X	X	X	X	X	X	X	4	ASAP to meet hold times.
3		SB-2		9:20				X	X	X	X	X	Y	X	X	X	Y	4	
4		CB-1		9:30				X	X	X	X	X	X	X	X	X	X	4	
5		CB-2		9:35				X	X	X	X	X	X	X	X	X	X	4	
6		EB-1		9:40				X	X	X	X	X	X	X	X	X	X	4	
7		EB-2		9:45				X	X	X	X	X	X	X	X	X	X	4	
8		NB-1		10:00				X	X	X	X	X	X	X	X	X	X	4	
9		NB-2		9:55				X	X	X	X	X	X	X	X	X	X	4	
10		CLD		10:05				X	X	X	X	X	X	X	X	X	X	4	

MCAL-2024-07-899

5/5

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Victoria Ainsleigh Lotica	24/07/10	12:15	BA Brooklyn Hiebert	24/07/11	1230			ACTD	Yes / No
			Dhara Patel	2024/07/12	08:20				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			729441
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#729441-02-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com	Sampled By	AL/MW		

Regulatory Criteria: MWQSOG

Special Instructions

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Analysis Requested

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-3 SFC	24/07/10	8:38	SW	N	N	X	X	X	X	✓	X	X	X	X	X	4	Analyze turbidity + DOC
2		CL-3 BTM		8:38				X	X	X	X	X	X	X	X	X	X	4	ASAP to meet hold times.
3		CL-7 SFC		8:45				X	X	X	X	X	X	X	X	X	X	4	
4		CL-7 BTM		8:45				X	X	X	X	X	X	X	X	X	X	4	
5		CL-8 SFC		8:30				X	X	X	X	X	X	X	X	X	X	4	
6		CL-8 BTM		8:30				X	X	X	X	X	X	X	X	X	X	4	
7		CL-2 SFC		8:55				X	X	X	X	X	X	X	X	X	X	4	
8		CL-2 BTM		8:55				X	X	X	X	X	X	X	X	X	X	4	
9		CL-4 SFC		8:25				X	X	X	X	X	X	X	X	X	X	4	
10		CL-4 BTM		8:25				X	X	X	X	X	X	X	X	X	X	4	

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Maria Ainsleigh Lord	24/07/11	12:15	BA Brooklyn Hiebert	24/07/11	1230			ACTR	Yes / No
			Ekta Patel	2024/07/12	08:20				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			729441
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#729441-03-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com	Sampled By	AL/AW		

Regulatory Criteria: MWQSOG

Special Instructions

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Analysis Requested

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-5 SFC	24/07/10	8:15	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze turbidity + DOC
2		CL-5 BTM		8:15				X	X	X	X	X	X	X	X	X	X	4	ASAP to meet hold times
3		CL-6 SFC		8:05				X	X	X	X	X	X	X	X	X	X	4	
4		CL-6 BTM		8:05				X	X	X	X	X	X	X	X	X	X	4	
5		SW-113		AM				X	X	X	X	X	X	X	X	X	X	4	
6		SW-114		AM				X	X	X	X	X	X	X	X	X	X	4	
7		SW-115		AM				X	X	X	X	X	X	X	X	X	X	4	
8		Trip Blank		—				X	X	X	X	X	X	X	X	X	X	4	
9																			
10																			

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Maria Anstleigh Loria	24/07/11	12:15	BH Brooklyn Hiebert	24/07/11	1230	
			Erin Ruest	Received 07/12	09:20	

Lab Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
☐	ACTR	☐ Yes ☐ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 730672-01-01, 730672-02-01, 730672-03-01

Report Date: 2024/07/31
Report #: R3535803
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C456200
Received: 2024/07/24, 11:00

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	7	N/A	2024/07/29	AB SOP-00005	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	21	N/A	2024/07/30	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	19	N/A	2024/07/27		Auto Calc
Cadmium - low level CCME - Dissolved (1)	8	N/A	2024/07/29		Auto Calc
Cadmium - low level CCME - Dissolved (1)	1	N/A	2024/07/31		Auto Calc
Cadmium - low level CCME (Total) (1)	11	N/A	2024/07/29		Auto Calc
Cadmium - low level CCME (Total) (1)	17	N/A	2024/07/30		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	28	N/A	2024/07/26	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	18	N/A	2024/07/26	AB SOP-00087	MMCW 119 1996 m
Carbon (DOC) -Lab Filtered (1, 2)	10	N/A	2024/07/29	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	26	N/A	2024/07/28		Auto Calc
Hardness (1)	1	N/A	2024/07/29		Auto Calc
Hardness (1)	1	N/A	2024/07/31		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	11	N/A	2024/07/29	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	17	N/A	2024/07/30	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	26	N/A	2024/07/26	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 4)	1	N/A	2024/07/29	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 4)	1	N/A	2024/07/30	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	3	2024/07/28	2024/07/28	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	25	2024/07/29	2024/07/29	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	19	N/A	2024/07/26	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	8	N/A	2024/07/28	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	1	N/A	2024/07/31	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	3	2024/07/28	2024/07/28	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	8	2024/07/29	2024/07/29	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 730672-01-01, 730672-02-01, 730672-03-01

Report Date: 2024/07/31
Report #: R3535803
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C456200
Received: 2024/07/24, 11:00

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICPMS - Total (1)	17	2024/07/29	2024/07/30	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	7	N/A	2024/07/29	AB SOP-00005	SM 24 4500-H+B m
pH @25°C (1, 6)	21	N/A	2024/07/30	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	25	N/A	2024/07/29	AB SOP-00087	MMCW 119 1996 m
Carbon (Total Organic) (1, 7)	3	N/A	2024/07/30	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	13	2024/07/29	2024/07/29	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	15	2024/07/29	2024/07/30	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	10	N/A	2024/07/25	CAL SOP-00081	SM 24 2130 B m
Turbidity (1)	18	N/A	2024/07/26	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 730672-01-01, 730672-02-01, 730672-03-01

Report Date: 2024/07/31
Report #: R3535803
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C456200
Received: 2024/07/24, 11:00

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(7) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ003		CRZ004		CRZ005		
Sampling Date		2024/07/23 10:50		2024/07/23 09:40		2024/07/23 09:35		
COC Number		730672-01-01		730672-01-01		730672-01-01		
	UNITS	SC-1	QC Batch	SB-1	QC Batch	SB-2	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.13	B452706	0.28	B452706	0.25	0.020	B452706
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.017	B456486	0.017	B455119	0.016	0.0030	B456486
Dissolved Antimony (Sb)	mg/L	<0.00060	B456486	<0.00060	B455119	<0.00060	0.00060	B456486
Dissolved Arsenic (As)	mg/L	0.00038	B456486	0.00036	B455119	0.00032	0.00020	B456486
Dissolved Barium (Ba)	mg/L	<0.010	B454779	<0.010	B454779	0.011	0.010	B454779
Dissolved Beryllium (Be)	mg/L	<0.0010	B456486	<0.0010	B455119	<0.0010	0.0010	B456486
Dissolved Boron (B)	mg/L	<0.020	B454779	<0.020	B454779	<0.020	0.020	B454779
Dissolved Calcium (Ca)	mg/L	8.7	B454779	18	B454779	18	0.30	B454779
Dissolved Chromium (Cr)	mg/L	<0.0010	B456486	<0.0010	B455119	<0.0010	0.0010	B456486
Dissolved Cobalt (Co)	mg/L	<0.00030	B456486	<0.00030	B455119	<0.00030	0.00030	B456486
Dissolved Copper (Cu)	mg/L	0.0068	B456486	0.013	B455119	0.013	0.0010	B456486
Dissolved Iron (Fe)	mg/L	0.13	B454779	0.31	B454779	0.31	0.060	B454779
Dissolved Lead (Pb)	mg/L	<0.00020	B456486	<0.00020	B455119	<0.00020	0.00020	B456486
Dissolved Lithium (Li)	mg/L	<0.020	B454779	<0.020	B454779	<0.020	0.020	B454779
Dissolved Magnesium (Mg)	mg/L	2.7	B454779	4.1	B454779	4.2	0.20	B454779
Dissolved Manganese (Mn)	mg/L	0.0091	B454779	<0.0040	B454779	<0.0040	0.0040	B454779
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B456486	<0.00020	B455119	<0.00020	0.00020	B456486
Dissolved Nickel (Ni)	mg/L	<0.00050	B456486	0.00068	B455119	0.00074	0.00050	B456486
Dissolved Phosphorus (P)	mg/L	<0.10	B454779	<0.10	B454779	<0.10	0.10	B454779
Dissolved Potassium (K)	mg/L	1.3	B454779	2.0	B454779	2.1	0.30	B454779
Dissolved Selenium (Se)	mg/L	<0.00020	B456486	<0.00020	B455119	0.00022	0.00020	B456486
Dissolved Silicon (Si)	mg/L	0.98	B454779	0.87	B454779	0.96	0.50	B454779
Dissolved Silver (Ag)	mg/L	<0.00010	B456486	<0.00010	B455119	<0.00010	0.00010	B456486
Dissolved Sodium (Na)	mg/L	1.8	B454779	2.2	B454779	2.2	0.50	B454779
Dissolved Strontium (Sr)	mg/L	0.022	B454779	0.030	B454779	0.030	0.020	B454779
Dissolved Sulphur (S)	mg/L	1.5	B454779	12	B454779	12	0.20	B454779
Dissolved Thallium (Tl)	mg/L	<0.00020	B456486	<0.00020	B455119	<0.00020	0.00020	B456486
Dissolved Tin (Sn)	mg/L	<0.0010	B456486	<0.0010	B455119	<0.0010	0.0010	B456486
Dissolved Titanium (Ti)	mg/L	<0.0010	B456486	<0.0010	B455119	<0.0010	0.0010	B456486
Dissolved Uranium (U)	mg/L	<0.00010	B456486	<0.00010	B455119	<0.00010	0.00010	B456486
Dissolved Vanadium (V)	mg/L	<0.0010	B456486	<0.0010	B455119	<0.0010	0.0010	B456486
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ003		CRZ004		CRZ005		
Sampling Date		2024/07/23 10:50		2024/07/23 09:40		2024/07/23 09:35		
COC Number		730672-01-01		730672-01-01		730672-01-01		
	UNITS	**SC-1**	**QC Batch**	**SB-1**	**QC Batch**	**SB-2**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.045	B456486	0.094	B455119	0.081	0.0030	B456486
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ005			CRZ006			CRZ006		
Sampling Date		2024/07/23 09:35			2024/07/23 09:45			2024/07/23 09:45		
COC Number		730672-01-01			730672-01-01			730672-01-01		
	UNITS	SB-2 Lab-Dup	RDL	QC Batch	CB-1	RDL	QC Batch	CB-1 Lab-Dup	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L				0.33	0.020	B452706			
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L				0.018	0.0030	B455119			
Dissolved Antimony (Sb)	mg/L				<0.00060	0.00060	B455119			
Dissolved Arsenic (As)	mg/L				0.00028	0.00020	B455119			
Dissolved Barium (Ba)	mg/L	<0.010	0.010	B454779	<0.010	0.010	B454779			
Dissolved Beryllium (Be)	mg/L				<0.0010	0.0010	B455119			
Dissolved Boron (B)	mg/L	<0.020	0.020	B454779	<0.020	0.020	B454779			
Dissolved Calcium (Ca)	mg/L	18	0.30	B454779	20	0.30	B454779			
Dissolved Chromium (Cr)	mg/L				<0.0010	0.0010	B455119			
Dissolved Cobalt (Co)	mg/L				<0.00030	0.00030	B455119			
Dissolved Copper (Cu)	mg/L				0.014	0.0010	B455119			
Dissolved Iron (Fe)	mg/L	0.31	0.060	B454779	0.34	0.060	B454779			
Dissolved Lead (Pb)	mg/L				<0.00020	0.00020	B455119			
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B454779	<0.020	0.020	B454779			
Dissolved Magnesium (Mg)	mg/L	4.1	0.20	B454779	4.3	0.20	B454779			
Dissolved Manganese (Mn)	mg/L	<0.0040	0.0040	B454779	<0.0040	0.0040	B454779			
Dissolved Molybdenum (Mo)	mg/L				<0.00020	0.00020	B455119			
Dissolved Nickel (Ni)	mg/L				0.00077	0.00050	B460997	0.00073	0.00050	B460997
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B454779	<0.10	0.10	B454779			
Dissolved Potassium (K)	mg/L	2.0	0.30	B454779	2.2	0.30	B454779			
Dissolved Selenium (Se)	mg/L				<0.00020	0.00020	B455119			
Dissolved Silicon (Si)	mg/L	0.91	0.50	B454779	0.87	0.50	B454779			
Dissolved Silver (Ag)	mg/L				<0.00010	0.00010	B455119			
Dissolved Sodium (Na)	mg/L	2.2	0.50	B454779	2.3	0.50	B454779			
Dissolved Strontium (Sr)	mg/L	0.030	0.020	B454779	0.032	0.020	B454779			
Dissolved Sulphur (S)	mg/L	12	0.20	B454779	14	0.20	B454779			
Dissolved Thallium (Tl)	mg/L				<0.00020	0.00020	B455119			
Dissolved Tin (Sn)	mg/L				<0.0010	0.0010	B455119			
Dissolved Titanium (Ti)	mg/L				<0.0010	0.0010	B455119			
Dissolved Uranium (U)	mg/L				<0.00010	0.00010	B455119			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ005			CRZ006			CRZ006		
Sampling Date		2024/07/23 09:35			2024/07/23 09:45			2024/07/23 09:45		
COC Number		730672-01-01			730672-01-01			730672-01-01		
	UNITS	**SB-2 Lab-Dup**	**RDL**	**QC Batch**	**CB-1**	**RDL**	**QC Batch**	**CB-1 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L				<0.0010	0.0010	B455119			
Dissolved Zinc (Zn)	mg/L				0.11	0.0030	B455119			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ007		CRZ008		CRZ009		CRZ010		
Sampling Date		2024/07/23 09:50		2024/07/23 10:00		2024/07/23 10:05		2024/07/23 10:20		
COC Number		730672-01-01		730672-01-01		730672-01-01		730672-01-01		
	UNITS	CB-2	QC Batch	EB-1	QC Batch	EB-2	QC Batch	NB-1	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.35	B452706	0.51	B452706	0.48	B452706	0.29	0.020	B452706
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.017	B455119	0.025	B455119	0.022	B460997	0.021	0.0030	B456486
Dissolved Antimony (Sb)	mg/L	<0.00060	B455119	<0.00060	B455119	<0.00060	B460997	<0.00060	0.00060	B456486
Dissolved Arsenic (As)	mg/L	0.00036	B455119	0.00034	B455119	0.00025	B460997	0.00036	0.00020	B456486
Dissolved Barium (Ba)	mg/L	0.010	B454779	0.011	B454767	0.012	B460004	<0.010	0.010	B454779
Dissolved Beryllium (Be)	mg/L	<0.0010	B455119	<0.0010	B455119	<0.0010	B460997	<0.0010	0.0010	B456486
Dissolved Boron (B)	mg/L	<0.020	B454779	<0.020	B454767	<0.020	B460004	<0.020	0.020	B454779
Dissolved Calcium (Ca)	mg/L	22	B454779	32	B454767	29	B460004	22	0.30	B454779
Dissolved Chromium (Cr)	mg/L	<0.0010	B455119	<0.0010	B455119	<0.0010	B460997	<0.0010	0.0010	B456486
Dissolved Cobalt (Co)	mg/L	<0.00030	B455119	<0.00030	B455119	<0.00030	B460997	<0.00030	0.00030	B456486
Dissolved Copper (Cu)	mg/L	0.015	B455119	0.016	B455119	0.015	B460997	0.016	0.0010	B456486
Dissolved Iron (Fe)	mg/L	0.36	B454779	0.44	B454767	0.41	B460004	0.38	0.060	B454779
Dissolved Lead (Pb)	mg/L	<0.00020	B455119	<0.00020	B455119	<0.00020	B460997	<0.00020	0.00020	B456486
Dissolved Lithium (Li)	mg/L	<0.020	B454779	<0.020	B454767	<0.020	B460004	<0.020	0.020	B454779
Dissolved Magnesium (Mg)	mg/L	4.6	B454779	6.2	B454767	6.2	B460004	4.6	0.20	B454779
Dissolved Manganese (Mn)	mg/L	<0.0040	B454779	<0.0040	B454767	<0.0040	B460004	<0.0040	0.0040	B454779
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B455119	<0.00020	B455119	<0.00020	B460997	<0.00020	0.00020	B456486
Dissolved Nickel (Ni)	mg/L	0.0010	B455119	0.0014	B455119	0.0013	B460997	0.00094	0.00050	B456486
Dissolved Phosphorus (P)	mg/L	<0.10	B454779	<0.10	B454767	<0.10	B460004	<0.10	0.10	B454779
Dissolved Potassium (K)	mg/L	2.3	B454779	2.9	B454767	2.6	B460004	2.3	0.30	B454779
Dissolved Selenium (Se)	mg/L	<0.00020	B455119	<0.00020	B455119	<0.00020	B460997	0.00020	0.00020	B456486
Dissolved Silicon (Si)	mg/L	0.85	B454779	0.92	B454767	1.0	B460004	0.84	0.50	B454779
Dissolved Silver (Ag)	mg/L	<0.00010	B455119	<0.00010	B455119	<0.00010	B460997	<0.00010	0.00010	B456486
Dissolved Sodium (Na)	mg/L	2.3	B454779	2.8	B454767	2.4	B460004	2.3	0.50	B454779
Dissolved Strontium (Sr)	mg/L	0.033	B454779	0.038	B454767	0.042	B460004	0.033	0.020	B454779
Dissolved Sulphur (S)	mg/L	17	B454779	30	B454767	31	B460004	17	0.20	B454779
Dissolved Thallium (Tl)	mg/L	<0.00020	B455119	<0.00020	B455119	<0.00020	B460997	<0.00020	0.00020	B456486
Dissolved Tin (Sn)	mg/L	<0.0010	B455119	<0.0010	B455119	<0.0010	B460997	<0.0010	0.0010	B456486
Dissolved Titanium (Ti)	mg/L	<0.0010	B455119	<0.0010	B455119	<0.0010	B460997	<0.0010	0.0010	B456486
Dissolved Uranium (U)	mg/L	<0.00010	B455119	<0.00010	B455119	<0.00010	B460997	<0.00010	0.00010	B456486
Dissolved Vanadium (V)	mg/L	<0.0010	B455119	<0.0010	B455119	<0.0010	B460997	<0.0010	0.0010	B456486

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ007		CRZ008		CRZ009		CRZ010		
Sampling Date		2024/07/23 09:50		2024/07/23 10:00		2024/07/23 10:05		2024/07/23 10:20		
COC Number		730672-01-01		730672-01-01		730672-01-01		730672-01-01		
	UNITS	CB-2	QC Batch	EB-1	QC Batch	EB-2	QC Batch	NB-1	RDL	QC Batch
Dissolved Zinc (Zn)	mg/L	0.11	B455119	0.15	B455119	0.15	B460997	0.097	0.0030	B456486
RDL = Reportable Detection Limit										

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ010			CRZ011		CRZ012		
Sampling Date		2024/07/23 10:20			2024/07/23 10:15		2024/07/23 10:25		
COC Number		730672-01-01			730672-01-01		730672-01-01		
	UNITS	NB-1 Lab-Dup	RDL	QC Batch	NB-2	QC Batch	CLD	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L				0.28	B452706	0.30	0.020	B452706
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.018	0.0030	B456486	0.018	B456486	0.017	0.0030	B456486
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B456486	<0.00060	B456486	<0.00060	0.00060	B456486
Dissolved Arsenic (As)	mg/L	0.00026	0.00020	B456486	0.00028	B456486	0.00029	0.00020	B456486
Dissolved Barium (Ba)	mg/L				<0.010	B455602	<0.010	0.010	B454779
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B456486	<0.0010	B456486	<0.0010	0.0010	B456486
Dissolved Boron (B)	mg/L				<0.020	B455602	<0.020	0.020	B454779
Dissolved Calcium (Ca)	mg/L				21	B455602	22	0.30	B454779
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B456486	<0.0010	B456486	<0.0010	0.0010	B456486
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B456486	<0.00030	B456486	<0.00030	0.00030	B456486
Dissolved Copper (Cu)	mg/L	0.015	0.0010	B456486	0.015	B456486	0.015	0.0010	B456486
Dissolved Iron (Fe)	mg/L				0.43	B455602	0.39	0.060	B454779
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B456486	<0.00020	B456486	<0.00020	0.00020	B456486
Dissolved Lithium (Li)	mg/L				<0.020	B455602	<0.020	0.020	B454779
Dissolved Magnesium (Mg)	mg/L				4.5	B455602	4.6	0.20	B454779
Dissolved Manganese (Mn)	mg/L				<0.0040	B455602	<0.0040	0.0040	B454779
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B456486	<0.00020	B456486	<0.00020	0.00020	B456486
Dissolved Nickel (Ni)	mg/L	0.00086	0.00050	B456486	0.00089	B456486	0.00086	0.00050	B456486
Dissolved Phosphorus (P)	mg/L				<0.10	B455602	<0.10	0.10	B454779
Dissolved Potassium (K)	mg/L				2.2	B455602	2.2	0.30	B454779
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B456486	<0.00020	B456486	<0.00020	0.00020	B456486
Dissolved Silicon (Si)	mg/L				0.92	B455602	0.84	0.50	B454779
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B456486	<0.00010	B456486	<0.00010	0.00010	B456486
Dissolved Sodium (Na)	mg/L				2.3	B455602	2.3	0.50	B454779
Dissolved Strontium (Sr)	mg/L				0.030	B455602	0.033	0.020	B454779
Dissolved Sulphur (S)	mg/L				18	B455602	17	0.20	B454779
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B456486	<0.00020	B456486	<0.00020	0.00020	B456486
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B456486	<0.0010	B456486	<0.0010	0.0010	B456486
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B456486	<0.0010	B456486	<0.0010	0.0010	B456486
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B456486	<0.00010	B456486	<0.00010	0.00010	B456486

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ010			CRZ011		CRZ012		
Sampling Date		2024/07/23 10:20			2024/07/23 10:15		2024/07/23 10:25		
COC Number		730672-01-01			730672-01-01		730672-01-01		
	UNITS	NB-1 Lab-Dup	RDL	QC Batch	NB-2	QC Batch	CLD	RDL	QC Batch
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B456486	<0.0010	B456486	<0.0010	0.0010	B456486
Dissolved Zinc (Zn)	mg/L	0.089	0.0030	B456486	0.087	B456486	0.092	0.0030	B456486

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ013	CRZ014		CRZ015		CRZ016		
Sampling Date		2024/07/23 08:50	2024/07/23 08:40		2024/07/23 08:50		2024/07/23 08:50		
COC Number		730672-02-01	730672-02-01		730672-02-01		730672-01-01		
	UNITS	CL-3 SFC	CL-3 BTM	QC Batch	CL-7 SFC	QC Batch	CL-7 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.21	0.15	B452706	0.16	B452706	0.18	0.020	B452706
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.019	0.027	B455119	0.022	B456486	0.018	0.0030	B455119
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B455119	<0.00060	B456486	<0.00060	0.00060	B455119
Dissolved Arsenic (As)	mg/L	0.00041	0.00044	B455119	0.00032	B456486	0.00034	0.00020	B455119
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	B454767	<0.010	B455602	<0.010	0.010	B454767
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B455119	<0.0010	B456486	<0.0010	0.0010	B455119
Dissolved Boron (B)	mg/L	<0.020	<0.020	B454767	<0.020	B455602	<0.020	0.020	B454767
Dissolved Calcium (Ca)	mg/L	19	16	B454767	17	B455602	18	0.30	B454767
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B455119	<0.0010	B456486	<0.0010	0.0010	B455119
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B455119	<0.00030	B456486	<0.00030	0.00030	B455119
Dissolved Copper (Cu)	mg/L	0.012	0.0099	B455119	0.010	B456486	0.011	0.0010	B455119
Dissolved Iron (Fe)	mg/L	0.25	0.15	B454767	0.22	B455602	0.20	0.060	B454767
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B455119	<0.00020	B456486	<0.00020	0.00020	B455119
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B454767	<0.020	B455602	<0.020	0.020	B454767
Dissolved Magnesium (Mg)	mg/L	4.2	3.9	B454767	4.0	B455602	4.1	0.20	B454767
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	B454767	<0.0040	B455602	<0.0040	0.0040	B454767
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B455119	<0.00020	B456486	<0.00020	0.00020	B455119
Dissolved Nickel (Ni)	mg/L	0.00062	0.00061	B455119	0.00065	B456486	0.00077	0.00050	B455119
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B454767	<0.10	B455602	<0.10	0.10	B454767
Dissolved Potassium (K)	mg/L	2.0	1.8	B454767	1.9	B455602	2.0	0.30	B454767
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B455119	<0.00020	B456486	<0.00020	0.00020	B455119
Dissolved Silicon (Si)	mg/L	0.74	0.68	B454767	0.78	B455602	0.70	0.50	B454767
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B455119	<0.00010	B456486	<0.00010	0.00010	B455119
Dissolved Sodium (Na)	mg/L	2.3	2.2	B454767	2.2	B455602	2.2	0.50	B454767
Dissolved Strontium (Sr)	mg/L	0.031	0.030	B454767	0.028	B455602	0.031	0.020	B454767
Dissolved Sulphur (S)	mg/L	13	11	B454767	13	B455602	11	0.20	B454767
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B455119	<0.00020	B456486	<0.00020	0.00020	B455119
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B455119	<0.0010	B456486	<0.0010	0.0010	B455119
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B455119	<0.0010	B456486	<0.0010	0.0010	B455119
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B455119	<0.00010	B456486	<0.00010	0.00010	B455119
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B455119	<0.0010	B456486	<0.0010	0.0010	B455119

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ013	CRZ014		CRZ015		CRZ016		
Sampling Date		2024/07/23 08:50	2024/07/23 08:40		2024/07/23 08:50		2024/07/23 08:50		
COC Number		730672-02-01	730672-02-01		730672-02-01		730672-01-01		
	UNITS	**CL-3 SFC**	**CL-3 BTM**	**QC Batch**	**CL-7 SFC**	**QC Batch**	**CL-7 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.073	0.050	B455119	0.052	B456486	0.065	0.0030	B455119
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ017		CRZ018	CRZ019	CRZ020		
Sampling Date		2024/07/23 08:30		2024/07/23 08:30	2024/07/23 09:05	2024/07/23 09:05		
COC Number		730672-02-01		730672-02-01	730672-02-01	730672-02-01		
	UNITS	CL-8 SFRC	QC Batch	CL-8 BTM	CL-2 SFC	CL-2 BTM	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.16	B452706	0.15	0.13	0.11	0.020	B452706
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.018	B456486	0.016	0.018	0.017	0.0030	B455119
Dissolved Antimony (Sb)	mg/L	<0.00060	B456486	<0.00060	<0.00060	<0.00060	0.00060	B455119
Dissolved Arsenic (As)	mg/L	0.00034	B456486	0.00035	0.00037	0.00048	0.00020	B455119
Dissolved Barium (Ba)	mg/L	<0.010	B454779	<0.010	<0.010	<0.010	0.010	B454767
Dissolved Beryllium (Be)	mg/L	<0.0010	B456486	<0.0010	<0.0010	<0.0010	0.0010	B455119
Dissolved Boron (B)	mg/L	<0.020	B454779	<0.020	<0.020	<0.020	0.020	B454767
Dissolved Calcium (Ca)	mg/L	18	B454779	17	16	16	0.30	B454767
Dissolved Chromium (Cr)	mg/L	<0.0010	B456486	<0.0010	<0.0010	<0.0010	0.0010	B455119
Dissolved Cobalt (Co)	mg/L	<0.00030	B456486	<0.00030	<0.00030	<0.00030	0.00030	B455119
Dissolved Copper (Cu)	mg/L	0.011	B456486	0.0093	0.0091	0.0081	0.0010	B455119
Dissolved Iron (Fe)	mg/L	0.24	B454779	0.16	0.12	0.13	0.060	B454767
Dissolved Lead (Pb)	mg/L	<0.00020	B456486	<0.00020	<0.00020	<0.00020	0.00020	B455119
Dissolved Lithium (Li)	mg/L	<0.020	B454779	<0.020	<0.020	<0.020	0.020	B454767
Dissolved Magnesium (Mg)	mg/L	4.2	B454779	4.0	3.9	3.8	0.20	B454767
Dissolved Manganese (Mn)	mg/L	<0.0040	B454779	<0.0040	<0.0040	<0.0040	0.0040	B454767
Dissolved Molybdenum (Mo)	mg/L	0.00030	B456486	<0.00020	<0.00020	<0.00020	0.00020	B455119
Dissolved Nickel (Ni)	mg/L	0.00093	B456486	0.00054	0.00060	<0.00050	0.00050	B455119
Dissolved Phosphorus (P)	mg/L	<0.10	B454779	<0.10	<0.10	<0.10	0.10	B454767
Dissolved Potassium (K)	mg/L	2.0	B454779	1.9	1.8	1.8	0.30	B454767
Dissolved Selenium (Se)	mg/L	<0.00020	B456486	<0.00020	<0.00020	<0.00020	0.00020	B455119
Dissolved Silicon (Si)	mg/L	0.73	B454779	0.85	0.74	0.88	0.50	B454767
Dissolved Silver (Ag)	mg/L	<0.00010	B456486	<0.00010	<0.00010	<0.00010	0.00010	B455119
Dissolved Sodium (Na)	mg/L	2.3	B454779	2.3	2.3	2.2	0.50	B454767
Dissolved Strontium (Sr)	mg/L	0.031	B454779	0.030	0.030	0.030	0.020	B454767
Dissolved Sulphur (S)	mg/L	12	B454779	11	9.7	9.5	0.20	B454767
Dissolved Thallium (Tl)	mg/L	<0.00020	B456486	<0.00020	<0.00020	<0.00020	0.00020	B455119
Dissolved Tin (Sn)	mg/L	<0.0010	B456486	<0.0010	<0.0010	<0.0010	0.0010	B455119
Dissolved Titanium (Ti)	mg/L	<0.0010	B456486	<0.0010	<0.0010	<0.0010	0.0010	B455119
Dissolved Uranium (U)	mg/L	<0.00010	B456486	<0.00010	<0.00010	<0.00010	0.00010	B455119
Dissolved Vanadium (V)	mg/L	<0.0010	B456486	<0.0010	<0.0010	<0.0010	0.0010	B455119

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ017		CRZ018	CRZ019	CRZ020		
Sampling Date		2024/07/23 08:30		2024/07/23 08:30	2024/07/23 09:05	2024/07/23 09:05		
COC Number		730672-02-01		730672-02-01	730672-02-01	730672-02-01		
	UNITS	**CL-8 SFRC**	**QC Batch**	**CL-8 BTM**	**CL-2 SFC**	**CL-2 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.055	B456486	0.050	0.048	0.045	0.0030	B455119
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ021		CRZ022		CRZ023	CRZ024		
Sampling Date		2024/07/23 08:28		2024/07/23 08:20		2024/07/23 08:10	2024/07/23 08:10		
COC Number		730672-02-01		730672-02-01		730672-03-01	730672-03-01		
	UNITS	CL-4 SFC	QC Batch	CL-4 BTM	QC Batch	CL-5 SFC	CL-5 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.11	B452881	0.11	B452881	0.087	0.098	0.020	B452881
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.017	B455119	0.020	B456486	0.019	0.025	0.0030	B455119
Dissolved Antimony (Sb)	mg/L	<0.00060	B455119	<0.00060	B456486	<0.00060	<0.00060	0.00060	B455119
Dissolved Arsenic (As)	mg/L	0.00042	B455119	0.00031	B456486	0.00042	0.00041	0.00020	B455119
Dissolved Barium (Ba)	mg/L	<0.010	B454767	<0.010	B454767	<0.010	<0.010	0.010	B454767
Dissolved Beryllium (Be)	mg/L	<0.0010	B455119	<0.0010	B456486	<0.0010	<0.0010	0.0010	B455119
Dissolved Boron (B)	mg/L	<0.020	B454767	<0.020	B454767	<0.020	<0.020	0.020	B454767
Dissolved Calcium (Ca)	mg/L	15	B454767	15	B454767	15	14	0.30	B454767
Dissolved Chromium (Cr)	mg/L	<0.0010	B455119	<0.0010	B456486	<0.0010	<0.0010	0.0010	B455119
Dissolved Cobalt (Co)	mg/L	<0.00030	B455119	<0.00030	B456486	<0.00030	<0.00030	0.00030	B455119
Dissolved Copper (Cu)	mg/L	0.0082	B455119	0.0077	B456486	0.0075	0.0082	0.0010	B455119
Dissolved Iron (Fe)	mg/L	0.10	B454767	0.20	B454767	0.10	0.11	0.060	B454767
Dissolved Lead (Pb)	mg/L	<0.00020	B455119	<0.00020	B456486	<0.00020	<0.00020	0.00020	B455119
Dissolved Lithium (Li)	mg/L	<0.020	B454767	<0.020	B454767	<0.020	<0.020	0.020	B454767
Dissolved Magnesium (Mg)	mg/L	3.8	B454767	3.8	B454767	3.7	3.6	0.20	B454767
Dissolved Manganese (Mn)	mg/L	<0.0040	B454767	0.012	B454767	<0.0040	<0.0040	0.0040	B454767
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B455119	<0.00020	B456486	<0.00020	<0.00020	0.00020	B455119
Dissolved Nickel (Ni)	mg/L	0.00056	B455119	0.00054	B456486	0.00054	0.00052	0.00050	B455119
Dissolved Phosphorus (P)	mg/L	<0.10	B454767	<0.10	B454767	<0.10	<0.10	0.10	B454767
Dissolved Potassium (K)	mg/L	1.8	B454767	1.8	B454767	1.7	1.7	0.30	B454767
Dissolved Selenium (Se)	mg/L	<0.00020	B455119	<0.00020	B456486	<0.00020	<0.00020	0.00020	B455119
Dissolved Silicon (Si)	mg/L	0.65	B454767	1.1	B454767	0.58	0.61	0.50	B454767
Dissolved Silver (Ag)	mg/L	<0.00010	B455119	<0.00010	B456486	<0.00010	<0.00010	0.00010	B455119
Dissolved Sodium (Na)	mg/L	2.2	B454767	2.3	B454767	2.2	2.1	0.50	B454767
Dissolved Strontium (Sr)	mg/L	0.030	B454767	0.030	B454767	0.029	0.029	0.020	B454767
Dissolved Sulphur (S)	mg/L	8.8	B454767	9.0	B454767	8.2	8.3	0.20	B454767
Dissolved Thallium (Tl)	mg/L	<0.00020	B455119	<0.00020	B456486	<0.00020	<0.00020	0.00020	B455119
Dissolved Tin (Sn)	mg/L	<0.0010	B455119	<0.0010	B456486	<0.0010	<0.0010	0.0010	B455119
Dissolved Titanium (Ti)	mg/L	<0.0010	B455119	<0.0010	B456486	<0.0010	<0.0010	0.0010	B455119
Dissolved Uranium (U)	mg/L	<0.00010	B455119	<0.00010	B456486	<0.00010	<0.00010	0.00010	B455119
Dissolved Vanadium (V)	mg/L	<0.0010	B455119	<0.0010	B456486	<0.0010	<0.0010	0.0010	B455119

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ021		CRZ022		CRZ023	CRZ024		
Sampling Date		2024/07/23 08:28		2024/07/23 08:20		2024/07/23 08:10	2024/07/23 08:10		
COC Number		730672-02-01		730672-02-01		730672-03-01	730672-03-01		
	UNITS	**CL-4 SFC**	**QC Batch**	**CL-4 BTM**	**QC Batch**	**CL-5 SFC**	**CL-5 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.041	B455119	0.035	B456486	0.036	0.039	0.0030	B455119
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ025	CRZ026	CRZ027	CRZ028	CRZ029		
Sampling Date		2024/07/23 08:08	2024/07/23 08:00	2024/07/23	2024/07/23	2024/07/23		
COC Number		730672-03-01	730672-03-01	730672-03-01	730672-03-01	730672-03-01		
	UNITS	CL-6 SFC	CL-6 BTM	SW-116	SW-117	SW-118	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.066	0.073	0.31	0.14	0.12	0.020	B452881
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.015	0.016	0.018	0.019	0.023	0.0030	B455119
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B455119
Dissolved Arsenic (As)	mg/L	0.00048	0.00044	0.00036	0.00041	0.00031	0.00020	B455119
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	<0.010	<0.010	0.011	0.010	B454767
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B455119
Dissolved Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B454767
Dissolved Calcium (Ca)	mg/L	14	14	20	17	14	0.30	B454767
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B455119
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B455119
Dissolved Copper (Cu)	mg/L	0.0062	0.0069	0.014	0.010	0.0076	0.0010	B455119
Dissolved Iron (Fe)	mg/L	0.072	0.074	0.32	0.15	0.20	0.060	B454767
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B455119
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B454767
Dissolved Magnesium (Mg)	mg/L	3.6	3.6	4.4	4.0	3.3	0.20	B454767
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	<0.0040	<0.0040	0.012	0.0040	B454767
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B455119
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00055	0.00079	0.00063	0.00053	0.00050	B455119
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B454767
Dissolved Potassium (K)	mg/L	1.7	1.7	2.2	1.9	1.7	0.30	B454767
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B455119
Dissolved Silicon (Si)	mg/L	<0.50	<0.50	0.89	0.70	0.99	0.50	B454767
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B455119
Dissolved Sodium (Na)	mg/L	2.2	2.2	2.3	2.3	2.1	0.50	B454767
Dissolved Strontium (Sr)	mg/L	0.029	0.029	0.032	0.030	0.029	0.020	B454767
Dissolved Sulphur (S)	mg/L	7.2	7.0	14	10	8.2	0.20	B454767
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B455119
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B455119
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B455119
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B455119
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B455119
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ025	CRZ026	CRZ027	CRZ028	CRZ029		
Sampling Date		2024/07/23 08:08	2024/07/23 08:00	2024/07/23	2024/07/23	2024/07/23		
COC Number		730672-03-01	730672-03-01	730672-03-01	730672-03-01	730672-03-01		
	UNITS	**CL-6 SFC**	**CL-6 BTM**	**SW-116**	**SW-117**	**SW-118**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.026	0.028	0.10	0.049	0.042	0.0030	B455119
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ029			CRZ030		
Sampling Date		2024/07/23			2024/07/23		
COC Number		730672-03-01			730672-03-01		
	UNITS	SW-118 Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Elements							
Dissolved Cadmium (Cd)	ug/L				<0.020	0.020	B452881
Lab Filtered Elements							
Dissolved Aluminum (Al)	mg/L	0.023	0.0030	B455119	<0.0030	0.0030	B455119
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B455119	<0.00060	0.00060	B455119
Dissolved Arsenic (As)	mg/L	0.00042	0.00020	B455119	<0.00020	0.00020	B455119
Dissolved Barium (Ba)	mg/L	0.011	0.010	B454767	<0.010	0.010	B454767
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B455119	<0.0010	0.0010	B455119
Dissolved Boron (B)	mg/L	<0.020	0.020	B454767	<0.020	0.020	B454767
Dissolved Calcium (Ca)	mg/L	15	0.30	B454767	<0.30	0.30	B454767
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B455119	<0.0010	0.0010	B455119
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B455119	<0.00030	0.00030	B455119
Dissolved Copper (Cu)	mg/L	0.0076	0.0010	B455119	<0.0010	0.0010	B455119
Dissolved Iron (Fe)	mg/L	0.23	0.060	B454767	<0.060	0.060	B454767
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B455119	<0.00020	0.00020	B455119
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B454767	<0.020	0.020	B454767
Dissolved Magnesium (Mg)	mg/L	3.8	0.20	B454767	<0.20	0.20	B454767
Dissolved Manganese (Mn)	mg/L	0.013	0.0040	B454767	<0.0040	0.0040	B454767
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B455119	<0.00020	0.00020	B455119
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B455119	<0.00050	0.00050	B455119
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B454767	<0.10	0.10	B454767
Dissolved Potassium (K)	mg/L	1.8	0.30	B454767	<0.30	0.30	B454767
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B455119	<0.00020	0.00020	B455119
Dissolved Silicon (Si)	mg/L	1.1	0.50	B454767	<0.50	0.50	B454767
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B455119	<0.00010	0.00010	B455119
Dissolved Sodium (Na)	mg/L	2.3	0.50	B454767	<0.50	0.50	B454767
Dissolved Strontium (Sr)	mg/L	0.030	0.020	B454767	<0.020	0.020	B454767
Dissolved Sulphur (S)	mg/L	9.0	0.20	B454767	<0.20	0.20	B454767
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B455119	<0.00020	0.00020	B455119
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B455119	<0.0010	0.0010	B455119
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B455119	<0.0010	0.0010	B455119
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B455119	<0.00010	0.00010	B455119

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CRZ029			CRZ030		
Sampling Date		2024/07/23			2024/07/23		
COC Number		730672-03-01			730672-03-01		
	UNITS	**SW-118 Lab-Dup**	**RDL**	**QC Batch**	**TRIP BLANK**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B455119	<0.0010	0.0010	B455119
Dissolved Zinc (Zn)	mg/L	0.043	0.0030	B455119	<0.0030	0.0030	B455119

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ003		CRZ004		CRZ005	CRZ006		
Sampling Date		2024/07/23 10:50		2024/07/23 09:40		2024/07/23 09:35	2024/07/23 09:45		
COC Number		730672-01-01		730672-01-01		730672-01-01	730672-01-01		
	UNITS	SC-1	QC Batch	SB-1	QC Batch	SB-2	CB-1	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.22	B452707	0.46	B452707	0.31	0.34	0.020	B452707
Total Aluminum (Al)	mg/L	0.048	B457623	0.051	B457202	0.074	0.038	0.0030	B457623
Total Antimony (Sb)	mg/L	<0.00060	B457623	<0.00060	B457202	<0.00060	<0.00060	0.00060	B457623
Total Arsenic (As)	mg/L	0.00062	B457623	0.00053	B457202	0.00044	0.00040	0.00020	B457623
Total Barium (Ba)	mg/L	<0.010	B457631	<0.010	B457205	<0.010	<0.010	0.010	B457631
Total Beryllium (Be)	mg/L	<0.0010	B457623	<0.0010	B457202	<0.0010	<0.0010	0.0010	B457623
Total Boron (B)	mg/L	0.042	B457631	<0.020	B457205	<0.020	<0.020	0.020	B457631
Total Calcium (Ca)	mg/L	7.8	B457631	16	B457205	16	18	0.30	B457631
Total Chromium (Cr)	mg/L	0.0098	B457623	<0.0010	B457202	<0.0010	<0.0010	0.0010	B457623
Total Cobalt (Co)	mg/L	<0.00030	B457623	<0.00030	B457202	<0.00030	<0.00030	0.00030	B457623
Total Copper (Cu)	mg/L	0.011	B457623	0.022	B457202	0.015	0.016	0.0010	B457623
Total Iron (Fe)	mg/L	0.22	B457631	0.43	B457205	0.44	0.47	0.060	B457631
Total Lead (Pb)	mg/L	<0.00020	B457623	<0.00020	B457202	<0.00020	<0.00020	0.00020	B457623
Total Lithium (Li)	mg/L	0.060	B457631	<0.020	B457205	<0.020	<0.020	0.020	B457631
Total Magnesium (Mg)	mg/L	2.6	B457631	3.8	B457205	3.7	4.0	0.20	B457631
Total Manganese (Mn)	mg/L	0.027	B457631	0.015	B457205	0.017	0.015	0.0040	B457631
Total Molybdenum (Mo)	mg/L	0.0015	B457623	0.00022	B457202	<0.00020	<0.00020	0.00020	B457623
Total Nickel (Ni)	mg/L	0.0033	B457623	0.0013	B457202	0.00078	0.00089	0.00050	B457623
Total Phosphorus (P)	mg/L	<0.10	B457631	<0.10	B457205	<0.10	<0.10	0.10	B457631
Total Potassium (K)	mg/L	1.2	B457631	1.9	B457205	1.9	2.0	0.30	B457631
Total Selenium (Se)	mg/L	<0.00020	B457623	<0.00020	B457202	<0.00020	<0.00020	0.00020	B457623
Total Silicon (Si)	mg/L	0.98	B457631	0.89	B457205	0.87	0.89	0.50	B457631
Total Silver (Ag)	mg/L	<0.00010	B457623	<0.00010	B457202	<0.00010	<0.00010	0.00010	B457623
Total Sodium (Na)	mg/L	1.6	B457631	2.0	B457205	2.0	2.1	0.50	B457631
Total Strontium (Sr)	mg/L	<0.020	B457631	0.026	B457205	0.024	0.026	0.020	B457631
Total Sulphur (S)	mg/L	1.3	B457631	11	B457205	10	13	0.20	B457631
Total Thallium (Tl)	mg/L	<0.00020	B457623	<0.00020	B457202	<0.00020	<0.00020	0.00020	B457623
Total Tin (Sn)	mg/L	<0.0010	B457623	<0.0010	B457202	<0.0010	<0.0010	0.0010	B457623
Total Titanium (Ti)	mg/L	0.0021	B457623	0.0014	B457202	0.0012	<0.0010	0.0010	B457623
Total Uranium (U)	mg/L	<0.00010	B457623	<0.00010	B457202	<0.00010	<0.00010	0.00010	B457623
Total Vanadium (V)	mg/L	<0.0010	B457623	<0.0010	B457202	<0.0010	<0.0010	0.0010	B457623

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ003		CRZ004		CRZ005	CRZ006		
Sampling Date		2024/07/23 10:50		2024/07/23 09:40		2024/07/23 09:35	2024/07/23 09:45		
COC Number		730672-01-01		730672-01-01		730672-01-01	730672-01-01		
	UNITS	**SC-1**	**QC Batch**	**SB-1**	**QC Batch**	**SB-2**	**CB-1**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.067	B457623	0.14	B457202	0.10	0.11	0.0030	B457623
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ007			CRZ008	CRZ009		
Sampling Date		2024/07/23 09:50			2024/07/23 10:00	2024/07/23 10:05		
COC Number		730672-01-01			730672-01-01	730672-01-01		
	UNITS	CB-2	RDL	QC Batch	EB-1	EB-2	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.57	0.020	B452707	0.79	0.94	0.020	B452707
Total Aluminum (Al)	mg/L	0.053	0.0030	B456772	0.080	0.098	0.0030	B457202
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B456772	<0.00060	<0.00060	0.00060	B457202
Total Arsenic (As)	mg/L	0.00060	0.00020	B456772	0.00050	0.00052	0.00020	B457202
Total Barium (Ba)	mg/L	<0.010	0.010	B456768	0.011	0.011	0.010	B457205
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B456772	<0.0010	<0.0010	0.0010	B457202
Total Boron (B)	mg/L	<0.020	0.020	B456768	<0.020	<0.020	0.020	B457205
Total Calcium (Ca)	mg/L	22	0.30	B456768	29	30	0.30	B457205
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B456772	0.0029	0.0086	0.0010	B457202
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B456772	0.00040	0.00048	0.00030	B457202
Total Copper (Cu)	mg/L	0.024	0.0010	B456772	0.027	0.031	0.0010	B457202
Total Iron (Fe)	mg/L	0.60	0.070	B456768	0.69	0.60	0.060	B457205
Total Lead (Pb)	mg/L	<0.00020	0.00020	B456772	<0.00020	<0.00020	0.00020	B457202
Total Lithium (Li)	mg/L	<0.020	0.020	B456768	<0.020	<0.020	0.020	B457205
Total Magnesium (Mg)	mg/L	4.7	0.20	B456768	5.6	5.7	0.20	B457205
Total Manganese (Mn)	mg/L	0.020	0.0040	B456768	0.037	0.039	0.0040	B457205
Total Molybdenum (Mo)	mg/L	0.00022	0.00020	B456772	0.00064	0.0011	0.00020	B457202
Total Nickel (Ni)	mg/L	0.0014	0.00050	B456772	0.0038	0.0046	0.00050	B457202
Total Phosphorus (P)	mg/L	<0.10	0.10	B456768	<0.10	<0.10	0.10	B457205
Total Potassium (K)	mg/L	2.3	0.30	B456768	2.7	2.8	0.30	B457205
Total Selenium (Se)	mg/L	0.00021	0.00020	B456772	<0.00020	<0.00020	0.00020	B457202
Total Silicon (Si)	mg/L	1.0	0.50	B456768	0.98	0.94	0.50	B457205
Total Silver (Ag)	mg/L	<0.00010	0.00010	B456772	<0.00010	<0.00010	0.00010	B457202
Total Sodium (Na)	mg/L	2.3	0.50	B456768	2.5	2.6	0.50	B457205
Total Strontium (Sr)	mg/L	0.029	0.020	B456768	0.036	0.036	0.020	B457205
Total Sulphur (S)	mg/L	17	0.20	B456768	26	27	0.20	B457205
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B456772	<0.00020	<0.00020	0.00020	B457202
Total Tin (Sn)	mg/L	<0.0010	0.0010	B456772	<0.0010	<0.0010	0.0010	B457202
Total Titanium (Ti)	mg/L	0.0012	0.0010	B456772	0.0020	0.0025	0.0010	B457202
Total Uranium (U)	mg/L	<0.00010	0.00010	B456772	<0.00010	<0.00010	0.00010	B457202
Total Vanadium (V)	mg/L	<0.0010	0.0010	B456772	<0.0010	<0.0010	0.0010	B457202

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ007			CRZ008	CRZ009		
Sampling Date		2024/07/23 09:50			2024/07/23 10:00	2024/07/23 10:05		
COC Number		730672-01-01			730672-01-01	730672-01-01		
	UNITS	**CB-2**	**RDL**	**QC Batch**	**EB-1**	**EB-2**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.16	0.0030	B456772	0.22	0.26	0.0030	B457202
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ010			CRZ011	CRZ012	CRZ013		
Sampling Date		2024/07/23 10:20			2024/07/23 10:15	2024/07/23 10:25	2024/07/23 08:50		
COC Number		730672-01-01			730672-01-01	730672-01-01	730672-02-01		
	UNITS	NB-1	RDL	QC Batch	NB-2	CLD	CL-3 SFC	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.54	0.020	B452707	0.54	0.44	0.34	0.020	B452707
Total Aluminum (Al)	mg/L	0.048	0.0030	B456772	0.051	0.041	0.065	0.0030	B457202
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B456772	<0.00060	<0.00060	<0.00060	0.00060	B457202
Total Arsenic (As)	mg/L	0.00056	0.00020	B456772	0.00047	0.00042	0.00058	0.00020	B457202
Total Barium (Ba)	mg/L	<0.010	0.010	B456768	<0.010	<0.010	<0.010	0.010	B457205
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B456772	<0.0010	<0.0010	<0.0010	0.0010	B457202
Total Boron (B)	mg/L	<0.020	0.020	B456768	<0.020	<0.020	<0.020	0.020	B457205
Total Calcium (Ca)	mg/L	21	0.30	B456768	20	19	16	0.30	B457205
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B456772	<0.0010	<0.0010	0.0059	0.0010	B457202
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B456772	<0.00030	<0.00030	<0.00030	0.00030	B457202
Total Copper (Cu)	mg/L	0.024	0.0010	B456772	0.026	0.022	0.020	0.0010	B457202
Total Iron (Fe)	mg/L	0.58	0.070	B456768	0.48	0.47	0.33	0.060	B457205
Total Lead (Pb)	mg/L	<0.00020	0.00020	B456772	<0.00020	<0.00020	0.00026	0.00020	B457202
Total Lithium (Li)	mg/L	<0.020	0.020	B456768	<0.020	<0.020	<0.020	0.020	B457205
Total Magnesium (Mg)	mg/L	4.6	0.20	B456768	4.1	4.0	3.7	0.20	B457205
Total Manganese (Mn)	mg/L	0.015	0.0040	B456768	0.012	0.012	0.010	0.0040	B457205
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B456772	0.00028	0.00034	0.0012	0.00020	B457202
Total Nickel (Ni)	mg/L	0.0015	0.00050	B456772	0.0017	0.0011	0.0035	0.00050	B457202
Total Phosphorus (P)	mg/L	<0.10	0.10	B456768	<0.10	<0.10	<0.10	0.10	B457205
Total Potassium (K)	mg/L	2.2	0.30	B456768	2.1	1.9	1.8	0.30	B457205
Total Selenium (Se)	mg/L	<0.00020	0.00020	B456772	<0.00020	<0.00020	<0.00020	0.00020	B457202
Total Silicon (Si)	mg/L	0.97	0.50	B456768	0.79	0.78	0.74	0.50	B457205
Total Silver (Ag)	mg/L	<0.00010	0.00010	B456772	<0.00010	<0.00010	<0.00010	0.00010	B457202
Total Sodium (Na)	mg/L	2.3	0.50	B456768	2.1	2.0	2.1	0.50	B457205
Total Strontium (Sr)	mg/L	0.029	0.020	B456768	0.027	0.027	0.026	0.020	B457205
Total Sulphur (S)	mg/L	17	0.20	B456768	14	14	11	0.20	B457205
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B456772	<0.00020	<0.00020	<0.00020	0.00020	B457202
Total Tin (Sn)	mg/L	<0.0010	0.0010	B456772	<0.0010	<0.0010	<0.0010	0.0010	B457202
Total Titanium (Ti)	mg/L	<0.0010	0.0010	B456772	0.0013	<0.0010	0.0015	0.0010	B457202
Total Uranium (U)	mg/L	<0.00010	0.00010	B456772	<0.00010	<0.00010	<0.00010	0.00010	B457202
Total Vanadium (V)	mg/L	<0.0010	0.0010	B456772	<0.0010	<0.0010	<0.0010	0.0010	B457202

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ010			CRZ011	CRZ012	CRZ013		
Sampling Date		2024/07/23 10:20			2024/07/23 10:15	2024/07/23 10:25	2024/07/23 08:50		
COC Number		730672-01-01			730672-01-01	730672-01-01	730672-02-01		
	UNITS	**NB-1**	**RDL**	**QC Batch**	**NB-2**	**CLD**	**CL-3 SFC**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.16	0.0030	B456772	0.16	0.14	0.14	0.0030	B457202
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ014	CRZ015		CRZ016			CRZ016		
Sampling Date		2024/07/23 08:40	2024/07/23 08:50		2024/07/23 08:50			2024/07/23 08:50		
COC Number		730672-02-01	730672-02-01		730672-01-01			730672-01-01		
	UNITS	CL-3 BTM	CL-7 SFC	QC Batch	CL-7 BTM	RDL	QC Batch	CL-7 BTM Lab-Dup	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L	0.16	0.22	B452707	0.28	0.020	B452707			
Total Aluminum (Al)	mg/L	0.039	0.040	B457623	0.047	0.0030	B457202	0.046	0.0030	B457202
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B457623	<0.00060	0.00060	B457202	<0.00060	0.00060	B457202
Total Arsenic (As)	mg/L	0.00047	0.00044	B457623	0.00056	0.00020	B457202	0.00049	0.00020	B457202
Total Barium (Ba)	mg/L	<0.010	<0.010	B457631	<0.010	0.010	B457205	<0.010	0.010	B457205
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B457623	<0.0010	0.0010	B457202	<0.0010	0.0010	B457202
Total Boron (B)	mg/L	<0.020	<0.020	B457631	<0.020	0.020	B457205	<0.020	0.020	B457205
Total Calcium (Ca)	mg/L	14	16	B457631	15	0.30	B457205	16	0.30	B457205
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B457623	<0.0010	0.0010	B457202	<0.0010	0.0010	B457202
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B457623	<0.00030	0.00030	B457202	<0.00030	0.00030	B457202
Total Copper (Cu)	mg/L	0.011	0.012	B457623	0.017	0.0010	B457202	0.016	0.0010	B457202
Total Iron (Fe)	mg/L	0.20	0.29	B457631	0.28	0.060	B457205	0.29	0.060	B457205
Total Lead (Pb)	mg/L	<0.00020	<0.00020	B457623	<0.00020	0.00020	B457202	0.00024	0.00020	B457202
Total Lithium (Li)	mg/L	<0.020	<0.020	B457631	<0.020	0.020	B457205	<0.020	0.020	B457205
Total Magnesium (Mg)	mg/L	3.6	3.8	B457631	3.7	0.20	B457205	3.7	0.20	B457205
Total Manganese (Mn)	mg/L	0.0078	0.0094	B457631	0.0089	0.0040	B457205	0.0094	0.0040	B457205
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B457623	<0.00020	0.00020	B457202	0.00025	0.00020	B457202
Total Nickel (Ni)	mg/L	0.00070	0.00072	B457623	0.00085	0.00050	B457202	0.00087	0.00050	B457202
Total Phosphorus (P)	mg/L	<0.10	<0.10	B457631	<0.10	0.10	B457205	<0.10	0.10	B457205
Total Potassium (K)	mg/L	1.7	1.8	B457631	1.8	0.30	B457205	1.8	0.30	B457205
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B457623	<0.00020	0.00020	B457202	<0.00020	0.00020	B457202
Total Silicon (Si)	mg/L	0.67	0.75	B457631	0.72	0.50	B457205	0.74	0.50	B457205
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B457623	<0.00010	0.00010	B457202	<0.00010	0.00010	B457202
Total Sodium (Na)	mg/L	2.0	2.1	B457631	2.0	0.50	B457205	2.1	0.50	B457205
Total Strontium (Sr)	mg/L	0.025	0.026	B457631	0.026	0.020	B457205	0.026	0.020	B457205
Total Sulphur (S)	mg/L	9.6	11	B457631	10	0.20	B457205	11	0.20	B457205
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B457623	<0.00020	0.00020	B457202	<0.00020	0.00020	B457202
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B457623	<0.0010	0.0010	B457202	<0.0010	0.0010	B457202
Total Titanium (Ti)	mg/L	<0.0010	0.0012	B457623	0.0015	0.0010	B457202	0.0012	0.0010	B457202
Total Uranium (U)	mg/L	<0.00010	<0.00010	B457623	<0.00010	0.00010	B457202	<0.00010	0.00010	B457202
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B457623	<0.0010	0.0010	B457202	<0.0010	0.0010	B457202

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ014	CRZ015		CRZ016			CRZ016		
Sampling Date		2024/07/23 08:40	2024/07/23 08:50		2024/07/23 08:50			2024/07/23 08:50		
COC Number		730672-02-01	730672-02-01		730672-01-01			730672-01-01		
	UNITS	**CL-3 BTM**	**CL-7 SFC**	**QC Batch**	**CL-7 BTM**	**RDL**	**QC Batch**	**CL-7 BTM Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.054	0.068	B457623	0.087	0.0030	B457202	0.085	0.0030	B457202

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ017	CRZ018		CRZ019			CRZ020		
Sampling Date		2024/07/23 08:30	2024/07/23 08:30		2024/07/23 09:05			2024/07/23 09:05		
COC Number		730672-02-01	730672-02-01		730672-02-01			730672-02-01		
	UNITS	CL-8 SFRC	CL-8 BTM	QC Batch	CL-2 SFC	RDL	QC Batch	CL-2 BTM	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L	0.22	0.19	B452707	0.21	0.020	B452707	0.24	0.020	B452707
Total Aluminum (Al)	mg/L	0.036	0.039	B457623	0.050	0.0030	B457202	0.062	0.0030	B456772
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B457623	<0.00060	0.00060	B457202	<0.00060	0.00060	B456772
Total Arsenic (As)	mg/L	0.00048	0.00051	B457623	0.00053	0.00020	B457202	0.00070	0.00020	B456772
Total Barium (Ba)	mg/L	<0.010	<0.010	B457631	<0.010	0.010	B457205	<0.010	0.010	B456768
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B457623	<0.0010	0.0010	B457202	<0.0010	0.0010	B456772
Total Boron (B)	mg/L	<0.020	<0.020	B457631	<0.020	0.020	B457205	<0.020	0.020	B456768
Total Calcium (Ca)	mg/L	16	15	B457631	13	0.30	B457205	14	0.30	B456768
Total Chromium (Cr)	mg/L	0.031	<0.0010	B457623	<0.0010	0.0010	B457202	<0.0010	0.0010	B456772
Total Cobalt (Co)	mg/L	0.00072	<0.00030	B457623	<0.00030	0.00030	B457202	<0.00030	0.00030	B456772
Total Copper (Cu)	mg/L	0.014	0.012	B457623	0.014	0.0010	B457202	0.015	0.0010	B456772
Total Iron (Fe)	mg/L	0.39	0.22	B457631	0.17	0.060	B457205	0.25	0.070	B456768
Total Lead (Pb)	mg/L	<0.00020	<0.00020	B457623	<0.00020	0.00020	B457202	<0.00020	0.00020	B456772
Total Lithium (Li)	mg/L	<0.020	<0.020	B457631	<0.020	0.020	B457205	<0.020	0.020	B456768
Total Magnesium (Mg)	mg/L	3.8	3.6	B457631	3.4	0.20	B457205	3.5	0.20	B456768
Total Manganese (Mn)	mg/L	0.012	0.0082	B457631	0.0073	0.0040	B457205	0.013	0.0040	B456768
Total Molybdenum (Mo)	mg/L	0.0040	<0.00020	B457623	0.00022	0.00020	B457202	<0.00020	0.00020	B456772
Total Nickel (Ni)	mg/L	0.026	0.00073	B457623	0.0012	0.00050	B457202	0.00097	0.00050	B456772
Total Phosphorus (P)	mg/L	<0.10	<0.10	B457631	<0.10	0.10	B457205	<0.10	0.10	B456768
Total Potassium (K)	mg/L	1.8	1.7	B457631	1.6	0.30	B457205	1.6	0.30	B456768
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B457623	<0.00020	0.00020	B457202	<0.00020	0.00020	B456772
Total Silicon (Si)	mg/L	0.71	0.71	B457631	0.69	0.50	B457205	0.93	0.50	B456768
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B457623	<0.00010	0.00010	B457202	<0.00010	0.00010	B456772
Total Sodium (Na)	mg/L	2.0	2.0	B457631	2.0	0.50	B457205	2.0	0.50	B456768
Total Strontium (Sr)	mg/L	0.025	0.025	B457631	0.025	0.020	B457205	0.024	0.020	B456768
Total Sulphur (S)	mg/L	11	9.2	B457631	8.2	0.20	B457205	9.1	0.20	B456768
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B457623	<0.00020	0.00020	B457202	<0.00020	0.00020	B456772
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B457623	<0.0010	0.0010	B457202	<0.0010	0.0010	B456772
Total Titanium (Ti)	mg/L	0.0011	0.0010	B457623	0.0013	0.0010	B457202	0.0014	0.0010	B456772
Total Uranium (U)	mg/L	<0.00010	<0.00010	B457623	<0.00010	0.00010	B457202	<0.00010	0.00010	B456772
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B457623	<0.0010	0.0010	B457202	<0.0010	0.0010	B456772

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ017	CRZ018		CRZ019			CRZ020		
Sampling Date		2024/07/23 08:30	2024/07/23 08:30		2024/07/23 09:05			2024/07/23 09:05		
COC Number		730672-02-01	730672-02-01		730672-02-01			730672-02-01		
	UNITS	**CL-8 SFRC**	**CL-8 BTM**	**QC Batch**	**CL-2 SFC**	**RDL**	**QC Batch**	**CL-2 BTM**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.074	0.061	B457623	0.070	0.0030	B457202	0.078	0.0030	B456772
RDL = Reportable Detection Limit										

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ021	CRZ022	CRZ023	CRZ024		
Sampling Date		2024/07/23 08:28	2024/07/23 08:20	2024/07/23 08:10	2024/07/23 08:10		
COC Number		730672-02-01	730672-02-01	730672-03-01	730672-03-01		
	UNITS	CL-4 SFC	CL-4 BTM	CL-5 SFC	CL-5 BTM	RDL	QC Batch
Elements							
Total Cadmium (Cd)	ug/L	0.13	0.14	0.13	0.13	0.020	B452707
Total Aluminum (Al)	mg/L	0.036	0.051	0.046	0.045	0.0030	B457623
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B457623
Total Arsenic (As)	mg/L	0.00048	0.00042	0.00044	0.00048	0.00020	B457623
Total Barium (Ba)	mg/L	<0.010	<0.010	<0.010	<0.010	0.010	B457631
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B457623
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B457631
Total Calcium (Ca)	mg/L	13	13	13	13	0.30	B457631
Total Chromium (Cr)	mg/L	0.0025	<0.0010	<0.0010	<0.0010	0.0010	B457623
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B457623
Total Copper (Cu)	mg/L	0.0094	0.0091	0.0093	0.0099	0.0010	B457623
Total Iron (Fe)	mg/L	0.16	0.44	0.15	0.16	0.060	B457631
Total Lead (Pb)	mg/L	<0.00020	0.00044	<0.00020	<0.00020	0.00020	B457623
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B457631
Total Magnesium (Mg)	mg/L	3.5	3.5	3.5	3.5	0.20	B457631
Total Manganese (Mn)	mg/L	0.0077	0.043	0.0078	0.0076	0.0040	B457631
Total Molybdenum (Mo)	mg/L	0.00046	<0.00020	<0.00020	<0.00020	0.00020	B457623
Total Nickel (Ni)	mg/L	0.0059	0.00060	0.00082	0.00074	0.00050	B457623
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	0.10	B457631
Total Potassium (K)	mg/L	1.6	1.7	1.7	1.6	0.30	B457631
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B457623
Total Silicon (Si)	mg/L	0.64	1.0	0.61	0.66	0.50	B457631
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B457623
Total Sodium (Na)	mg/L	2.0	2.1	2.1	2.1	0.50	B457631
Total Strontium (Sr)	mg/L	0.024	0.025	0.025	0.025	0.020	B457631
Total Sulphur (S)	mg/L	7.8	8.1	7.3	7.7	0.20	B457631
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B457623
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B457623
Total Titanium (Ti)	mg/L	0.0012	0.0011	0.0016	0.0013	0.0010	B457623
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B457623
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B457623
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ021	CRZ022	CRZ023	CRZ024		
Sampling Date		2024/07/23 08:28	2024/07/23 08:20	2024/07/23 08:10	2024/07/23 08:10		
COC Number		730672-02-01	730672-02-01	730672-03-01	730672-03-01		
	UNITS	**CL-4 SFC**	**CL-4 BTM**	**CL-5 SFC**	**CL-5 BTM**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.044	0.048	0.042	0.044	0.0030	B457623
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ024			CRZ025	CRZ026	CRZ027		
Sampling Date		2024/07/23 08:10			2024/07/23 08:08	2024/07/23 08:00	2024/07/23		
COC Number		730672-03-01			730672-03-01	730672-03-01	730672-03-01		
	UNITS	CL-5 BTM Lab-Dup	RDL	QC Batch	CL-6 SFC	CL-6 BTM	SW-116	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L				0.089	0.12	0.39	0.020	B452883
Total Aluminum (Al)	mg/L	0.046	0.0030	B457623	0.038	0.049	0.038	0.0030	B457623
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B457623	<0.00060	<0.00060	<0.00060	0.00060	B457623
Total Arsenic (As)	mg/L	0.00046	0.00020	B457623	0.00055	0.00061	0.00038	0.00020	B457623
Total Barium (Ba)	mg/L	<0.010	0.010	B457631	<0.010	<0.010	<0.010	0.010	B457631
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B457623	<0.0010	<0.0010	<0.0010	0.0010	B457623
Total Boron (B)	mg/L	<0.020	0.020	B457631	<0.020	<0.020	<0.020	0.020	B457631
Total Calcium (Ca)	mg/L	13	0.30	B457631	12	12	18	0.30	B457631
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B457623	<0.0010	<0.0010	<0.0010	0.0010	B457623
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B457623	<0.00030	<0.00030	<0.00030	0.00030	B457623
Total Copper (Cu)	mg/L	0.0095	0.0010	B457623	0.0074	0.0087	0.018	0.0010	B457623
Total Iron (Fe)	mg/L	0.16	0.060	B457631	0.11	0.12	0.49	0.060	B457631
Total Lead (Pb)	mg/L	<0.00020	0.00020	B457623	<0.00020	0.00050	<0.00020	0.00020	B457623
Total Lithium (Li)	mg/L	<0.020	0.020	B457631	<0.020	<0.020	<0.020	0.020	B457631
Total Magnesium (Mg)	mg/L	3.5	0.20	B457631	3.3	3.4	4.0	0.20	B457631
Total Manganese (Mn)	mg/L	0.0073	0.0040	B457631	0.0077	0.0076	0.016	0.0040	B457631
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B457623	<0.00020	<0.00020	<0.00020	0.00020	B457623
Total Nickel (Ni)	mg/L	0.00070	0.00050	B457623	0.00056	0.00067	0.0010	0.00050	B457623
Total Phosphorus (P)	mg/L	<0.10	0.10	B457631	<0.10	<0.10	<0.10	0.10	B457631
Total Potassium (K)	mg/L	1.6	0.30	B457631	1.6	1.6	2.0	0.30	B457631
Total Selenium (Se)	mg/L	<0.00020	0.00020	B457623	<0.00020	<0.00020	<0.00020	0.00020	B457623
Total Silicon (Si)	mg/L	0.65	0.50	B457631	0.51	0.55	0.85	0.50	B457631
Total Silver (Ag)	mg/L	<0.00010	0.00010	B457623	<0.00010	<0.00010	<0.00010	0.00010	B457623
Total Sodium (Na)	mg/L	2.0	0.50	B457631	2.0	2.1	2.1	0.50	B457631
Total Strontium (Sr)	mg/L	0.024	0.020	B457631	0.024	0.024	0.026	0.020	B457631
Total Sulphur (S)	mg/L	7.6	0.20	B457631	6.4	6.3	13	0.20	B457631
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B457623	<0.00020	<0.00020	<0.00020	0.00020	B457623
Total Tin (Sn)	mg/L	<0.0010	0.0010	B457623	<0.0010	<0.0010	<0.0010	0.0010	B457623
Total Titanium (Ti)	mg/L	0.0012	0.0010	B457623	0.0012	0.0018	<0.0010	0.0010	B457623
Total Uranium (U)	mg/L	<0.00010	0.00010	B457623	<0.00010	<0.00010	<0.00010	0.00010	B457623
Total Vanadium (V)	mg/L	<0.0010	0.0010	B457623	<0.0010	<0.0010	<0.0010	0.0010	B457623

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ024			CRZ025	CRZ026	CRZ027		
Sampling Date		2024/07/23 08:10			2024/07/23 08:08	2024/07/23 08:00	2024/07/23		
COC Number		730672-03-01			730672-03-01	730672-03-01	730672-03-01		
	UNITS	**CL-5 BTM Lab-Dup**	**RDL**	**QC Batch**	**CL-6 SFC**	**CL-6 BTM**	**SW-116**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.045	0.0030	B457623	0.031	0.035	0.12	0.0030	B457623

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ028	CRZ029	CRZ030		
Sampling Date		2024/07/23	2024/07/23	2024/07/23		
COC Number		730672-03-01	730672-03-01	730672-03-01		
	UNITS	SW-117	SW-118	TRIP BLANK	RDL	QC Batch
Elements						
Total Cadmium (Cd)	ug/L	0.16	0.16	<0.020	0.020	B452883
Total Aluminum (Al)	mg/L	0.039	0.055	<0.0030	0.0030	B457623
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	0.00060	B457623
Total Arsenic (As)	mg/L	0.00048	0.00049	<0.00020	0.00020	B457623
Total Barium (Ba)	mg/L	<0.010	0.011	<0.010	0.010	B457631
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B457623
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	0.020	B457631
Total Calcium (Ca)	mg/L	14	14	<0.30	0.30	B457631
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B457623
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	0.00030	B457623
Total Copper (Cu)	mg/L	0.011	0.010	<0.0010	0.0010	B457623
Total Iron (Fe)	mg/L	0.20	0.46	<0.060	0.060	B457631
Total Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B457623
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	0.020	B457631
Total Magnesium (Mg)	mg/L	3.6	3.5	<0.20	0.20	B457631
Total Manganese (Mn)	mg/L	0.0080	0.044	<0.0040	0.0040	B457631
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	<0.00020	0.00020	B457623
Total Nickel (Ni)	mg/L	0.00067	0.00074	<0.00050	0.00050	B457623
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	0.10	B457631
Total Potassium (K)	mg/L	1.7	1.7	<0.30	0.30	B457631
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B457623
Total Silicon (Si)	mg/L	0.68	1.0	<0.50	0.50	B457631
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B457623
Total Sodium (Na)	mg/L	2.1	2.1	<0.50	0.50	B457631
Total Strontium (Sr)	mg/L	0.025	0.026	<0.020	0.020	B457631
Total Sulphur (S)	mg/L	8.7	8.8	<0.20	0.20	B457631
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B457623
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B457623
Total Titanium (Ti)	mg/L	0.0011	0.0016	<0.0010	0.0010	B457623
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B457623
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B457623
RDL = Reportable Detection Limit						

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CRZ028	CRZ029	CRZ030		
Sampling Date		2024/07/23	2024/07/23	2024/07/23		
COC Number		730672-03-01	730672-03-01	730672-03-01		
	UNITS	**SW-117**	**SW-118**	**TRIP BLANK**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.055	0.052	<0.0030	0.0030	B457623
RDL = Reportable Detection Limit						

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRZ003			CRZ003			CRZ004		
Sampling Date		2024/07/23 10:50			2024/07/23 10:50			2024/07/23 09:40		
COC Number		730672-01-01			730672-01-01			730672-01-01		
	UNITS	SC-1	RDL	QC Batch	SC-1 Lab-Dup	RDL	QC Batch	SB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	33	0.50	B452714				63	0.50	B452714
Total Hardness (CaCO3)	mg/L	30.1	0.50	B452596				56.5	0.50	B452596
Misc. Inorganics										
pH	pH	6.42	N/A	B457691	6.53	N/A	B457691	6.55	N/A	B457691
Total Organic Carbon (C)	mg/L	13	0.50	B457356				12	0.50	B457356
Total Suspended Solids	mg/L	<1.0	1.0	B456887				<1.0	1.0	B456887
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	13	0.50	B454801				11	0.50	B457360
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B457688	<1.0	1.0	B457688	<1.0	1.0	B457688
Alkalinity (Total as CaCO3)	mg/L	28	1.0	B457688	29	1.0	B457688	26	1.0	B457688
Bicarbonate (HCO3)	mg/L	35	1.0	B457688	35	1.0	B457688	31	1.0	B457688
Carbonate (CO3)	mg/L	<1.0	1.0	B457688	<1.0	1.0	B457688	<1.0	1.0	B457688
Hydroxide (OH)	mg/L	<1.0	1.0	B457688	<1.0	1.0	B457688	<1.0	1.0	B457688
Sulphate (SO4)	mg/L	2.7	1.0	B454741				40	1.0	B454366
Physical Properties										
Turbidity	NTU	1.6	0.10	B454105				1.2	0.10	B454105

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C456200
Report Date: 2024/07/31

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRZ005	CRZ006		CRZ007			CRZ007		
Sampling Date		2024/07/23 09:35	2024/07/23 09:45		2024/07/23 09:50			2024/07/23 09:50		
COC Number		730672-01-01	730672-01-01		730672-01-01			730672-01-01		
	UNITS	SB-2	CB-1	QC Batch	CB-2	RDL	QC Batch	CB-2 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	63	68	B452714	75	0.50	B452714			
Total Hardness (CaCO3)	mg/L	55.3	61.0	B452596	73.2	0.50	B452596			
Misc. Inorganics										
pH	pH	6.51	6.49	B457691	6.43	N/A	B457691			
Total Organic Carbon (C)	mg/L	12	12	B457356	11	0.50	B457356			
Total Suspended Solids	mg/L	<1.0	<1.0	B456887	<1.0	1.0	B456887			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	12	11	B454801	11	0.50	B454801			
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	B457688	<1.0	1.0	B457688			
Alkalinity (Total as CaCO3)	mg/L	25	25	B457688	23	1.0	B457688			
Bicarbonate (HCO3)	mg/L	30	30	B457688	28	1.0	B457688			
Carbonate (CO3)	mg/L	<1.0	<1.0	B457688	<1.0	1.0	B457688			
Hydroxide (OH)	mg/L	<1.0	<1.0	B457688	<1.0	1.0	B457688			
Sulphate (SO4)	mg/L	38	45	B454741	54	1.0	B454366			
Physical Properties										
Turbidity	NTU	1.4	1.3	B454105	1.5	0.10	B454152	1.4	0.10	B454152

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRZ008	CRZ009		CRZ010		CRZ011		
Sampling Date		2024/07/23 10:00	2024/07/23 10:05		2024/07/23 10:20		2024/07/23 10:15		
COC Number		730672-01-01	730672-01-01		730672-01-01		730672-01-01		
	UNITS	**EB-1**	**EB-2**	**QC Batch**	**NB-1**	**QC Batch**	**NB-2**	**RDL**	**QC Batch**
Calculated Parameters									
Hardness (CaCO3)	mg/L	100	98	B452714	75	B452714	71	0.50	B452714
Total Hardness (CaCO3)	mg/L	96.6	99.3	B452596	72.6	B452596	65.8	0.50	B452596
Misc. Inorganics									
pH	pH	6.36	6.39	B457685	6.45	B457691	6.46	N/A	B457685
Total Organic Carbon (C)	mg/L	10	9.7	B458803	12	B457356	11	0.50	B457356
Total Suspended Solids	mg/L	<1.0	<1.0	B456887	<1.0	B456887	1.0	1.0	B456887
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	9.7	9.1	B454801	11	B454801	11	0.50	B457360
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	B457683	<1.0	B457688	<1.0	1.0	B457683
Alkalinity (Total as CaCO3)	mg/L	17	16	B457683	24	B457688	24	1.0	B457683
Bicarbonate (HCO3)	mg/L	20	19	B457683	29	B457688	29	1.0	B457683
Carbonate (CO3)	mg/L	<1.0	<1.0	B457683	<1.0	B457688	<1.0	1.0	B457683
Hydroxide (OH)	mg/L	<1.0	<1.0	B457683	<1.0	B457688	<1.0	1.0	B457683
Sulphate (SO4)	mg/L	80	84	B454736	53	B454741	53	1.0	B455424
Physical Properties									
Turbidity	NTU	2.3	2.0	B454152	1.2	B454152	1.1	0.10	B454152

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C456200
Report Date: 2024/07/31

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRZ012		CRZ013			CRZ013		
Sampling Date		2024/07/23 10:25		2024/07/23 08:50			2024/07/23 08:50		
COC Number		730672-01-01		730672-02-01			730672-02-01		
	UNITS	CLD	QC Batch	CL-3 SFC	RDL	QC Batch	CL-3 SFC Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	75	B452714	64	0.50	B452714			
Total Hardness (CaCO3)	mg/L	63.5	B452596	55.7	0.50	B452596			
Misc. Inorganics									
pH	pH	6.45	B457691	6.44	N/A	B457685			
Total Organic Carbon (C)	mg/L	11	B457356	11	0.50	B457356	11	0.50	B457356
Total Suspended Solids	mg/L	<1.0	B456887	<1.0	1.0	B456887			
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	11	B454801	10	0.50	B457360			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B457688	<1.0	1.0	B457683			
Alkalinity (Total as CaCO3)	mg/L	23	B457688	25	1.0	B457683			
Bicarbonate (HCO3)	mg/L	29	B457688	30	1.0	B457683			
Carbonate (CO3)	mg/L	<1.0	B457688	<1.0	1.0	B457683			
Hydroxide (OH)	mg/L	<1.0	B457688	<1.0	1.0	B457683			
Sulphate (SO4)	mg/L	53	B454741	36	1.0	B454741			
Physical Properties									
Turbidity	NTU	1.3	B454152	1.3	0.10	B454152			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C456200
Report Date: 2024/07/31

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRZ014		CRZ015		CRZ016			CRZ016		
Sampling Date		2024/07/23 08:40		2024/07/23 08:50		2024/07/23 08:50			2024/07/23 08:50		
COC Number		730672-02-01		730672-02-01		730672-01-01			730672-01-01		
	UNITS	CL-3 BTM	QC Batch	CL-7 SFC	QC Batch	CL-7 BTM	RDL	QC Batch	CL-7 BTM Lab-Dup	RDL	QC Batch
Calculated Parameters											
Hardness (CaCO3)	mg/L	56	B452714	58	B452714	61	0.50	B452714			
Total Hardness (CaCO3)	mg/L	50.0	B452596	55.9	B452596	53.4	0.50	B452596			
Misc. Inorganics											
pH	pH	6.44	B457685	6.51	B457685	6.51	N/A	B457685			
Total Organic Carbon (C)	mg/L	11	B457356	11	B457766	11	0.50	B457356			
Total Suspended Solids	mg/L	<1.0	B456887	<1.0	B456887	<1.0	1.0	B456891	<1.0	1.0	B456891
Lab Filtered Inorganics											
Dissolved Organic Carbon (C)	mg/L	11	B457360	10	B457360	10	0.50	B454801			
Anions											
Alkalinity (PP as CaCO3)	mg/L	<1.0	B457683	<1.0	B457683	<1.0	1.0	B457683			
Alkalinity (Total as CaCO3)	mg/L	23	B457683	25	B457683	25	1.0	B457683			
Bicarbonate (HCO3)	mg/L	28	B457683	31	B457683	30	1.0	B457683			
Carbonate (CO3)	mg/L	<1.0	B457683	<1.0	B457683	<1.0	1.0	B457683			
Hydroxide (OH)	mg/L	<1.0	B457683	<1.0	B457683	<1.0	1.0	B457683			
Sulphate (SO4)	mg/L	31	B454741	38	B455424	32	1.0	B454736			
Physical Properties											
Turbidity	NTU	1.3	B454152	1.6	B454152	1.2	0.10	B454152			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C456200
Report Date: 2024/07/31

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRZ017		CRZ018		CRZ019		CRZ020		
Sampling Date		2024/07/23 08:30		2024/07/23 08:30		2024/07/23 09:05		2024/07/23 09:05		
COC Number		730672-02-01		730672-02-01		730672-02-01		730672-02-01		
	UNITS	CL-8 SFRC	QC Batch	CL-8 BTM	QC Batch	CL-2 SFC	QC Batch	CL-2 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	63	B452714	58	B452714	56	B452714	55	0.50	B452714
Total Hardness (CaCO3)	mg/L	54.9	B452596	51.1	B452596	47.5	B452596	48.5	0.50	B452596
Misc. Inorganics										
pH	pH	6.47	B457691	6.52	B457685	6.51	B457685	6.47	N/A	B457685
Total Organic Carbon (C)	mg/L	11	B457356	12	B458803	12	B457766	11	0.50	B457356
Total Suspended Solids	mg/L	<1.0	B456891	<1.0	B456891	<1.0	B456891	<1.0	1.0	B456891
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10	B454801	10	B457360	11	B454801	10	0.50	B454801
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	B457688	<1.0	B457683	<1.0	B457683	<1.0	1.0	B457683
Alkalinity (Total as CaCO3)	mg/L	25	B457688	25	B457683	26	B457683	26	1.0	B457683
Bicarbonate (HCO3)	mg/L	30	B457688	31	B457683	31	B457683	31	1.0	B457683
Carbonate (CO3)	mg/L	<1.0	B457688	<1.0	B457683	<1.0	B457683	<1.0	1.0	B457683
Hydroxide (OH)	mg/L	<1.0	B457688	<1.0	B457683	<1.0	B457683	<1.0	1.0	B457683
Sulphate (SO4)	mg/L	39	B454741	29	B454741	27	B454736	27	1.0	B454736
Physical Properties										
Turbidity	NTU	1.1	B454152	1.1	B453450	0.38	B453450	1.7	0.10	B453450

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C456200
Report Date: 2024/07/31

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRZ021		CRZ022		CRZ023		
Sampling Date		2024/07/23 08:28		2024/07/23 08:20		2024/07/23 08:10		
COC Number		730672-02-01		730672-02-01		730672-03-01		
	UNITS	CL-4 SFC	QC Batch	CL-4 BTM	QC Batch	CL-5 SFC	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	53	B452714	54	B452876	52	0.50	B452877
Total Hardness (CaCO3)	mg/L	47.5	B452596	48.0	B452596	46.8	0.50	B452596
Misc. Inorganics								
pH	pH	6.54	B457685	6.45	B457685	6.54	N/A	B457685
Total Organic Carbon (C)	mg/L	11	B457356	9.8	B457356	11	0.50	B457766
Total Suspended Solids	mg/L	<1.0	B456891	1.9	B456891	<1.0	1.0	B456891
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	11	B454801	9.5	B457360	11	0.50	B457360
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B457683	<1.0	B457683	<1.0	1.0	B457683
Alkalinity (Total as CaCO3)	mg/L	26	B457683	26	B457683	27	1.0	B457683
Bicarbonate (HCO3)	mg/L	32	B457683	32	B457683	32	1.0	B457683
Carbonate (CO3)	mg/L	<1.0	B457683	<1.0	B457683	<1.0	1.0	B457683
Hydroxide (OH)	mg/L	<1.0	B457683	<1.0	B457683	<1.0	1.0	B457683
Sulphate (SO4)	mg/L	26	B454736	25	B454741	26	1.0	B454741
Physical Properties								
Turbidity	NTU	0.31	B453450	5.1	B454152	1.2	0.10	B453450

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C456200
Report Date: 2024/07/31

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRZ023			CRZ024		CRZ025	CRZ026		
Sampling Date		2024/07/23 08:10			2024/07/23 08:10		2024/07/23 08:08	2024/07/23 08:00		
COC Number		730672-03-01			730672-03-01		730672-03-01	730672-03-01		
	UNITS	CL-5 SFC Lab-Dup	RDL	QC Batch	CL-5 BTM	QC Batch	CL-6 SFC	CL-6 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				50	B452877	49	49	0.50	B452877
Total Hardness (CaCO3)	mg/L				47.2	B452596	43.8	44.6	0.50	B452596
Misc. Inorganics										
pH	pH				6.52	B457685	6.56	6.55	N/A	B457685
Total Organic Carbon (C)	mg/L				11	B457356	12	11	0.50	B457766
Total Suspended Solids	mg/L				<1.0	B456891	<1.0	<1.0	1.0	B456891
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10	0.50	B457360	11	B457360	10	11	0.50	B454801
Anions										
Alkalinity (PP as CaCO3)	mg/L				<1.0	B457683	<1.0	<1.0	1.0	B457683
Alkalinity (Total as CaCO3)	mg/L				26	B457683	27	27	1.0	B457683
Bicarbonate (HCO3)	mg/L				32	B457683	33	33	1.0	B457683
Carbonate (CO3)	mg/L				<1.0	B457683	<1.0	<1.0	1.0	B457683
Hydroxide (OH)	mg/L				<1.0	B457683	<1.0	<1.0	1.0	B457683
Sulphate (SO4)	mg/L				27	B454741	20	19	1.0	B454736
Physical Properties										
Turbidity	NTU				1.2	B453450	1.1	1.1	0.10	B453450

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C456200
Report Date: 2024/07/31

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRZ027			CRZ028			CRZ028		
Sampling Date		2024/07/23			2024/07/23			2024/07/23		
COC Number		730672-03-01			730672-03-01			730672-03-01		
	UNITS	SW-116	RDL	QC Batch	SW-117	RDL	QC Batch	SW-117 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	69	0.50	B452877	58	0.50	B452877			
Total Hardness (CaCO3)	mg/L	61.2	0.50	B452596	50.5	0.50	B452880			
Misc. Inorganics										
pH	pH	6.46	N/A	B457685	6.52	N/A	B457685			
Total Organic Carbon (C)	mg/L	11	0.50	B457356	11	0.50	B457766	11	0.50	B457766
Total Suspended Solids	mg/L	<1.0	1.0	B456891	<0.99	0.99	B456891			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B454801	11	0.50	B454801			
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B457683	<1.0	1.0	B457683			
Alkalinity (Total as CaCO3)	mg/L	25	1.0	B457683	26	1.0	B457683			
Bicarbonate (HCO3)	mg/L	30	1.0	B457683	32	1.0	B457683			
Carbonate (CO3)	mg/L	<1.0	1.0	B457683	<1.0	1.0	B457683			
Hydroxide (OH)	mg/L	<1.0	1.0	B457683	<1.0	1.0	B457683			
Sulphate (SO4)	mg/L	46	1.0	B454741	31	1.0	B454741			
Physical Properties										
Turbidity	NTU	1.2	0.10	B453450	1.1	0.10	B454152			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRZ029			CRZ029			CRZ030		
Sampling Date		2024/07/23			2024/07/23			2024/07/23		
COC Number		730672-03-01			730672-03-01			730672-03-01		
	UNITS	SW-118	RDL	QC Batch	SW-118 Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	49	0.50	B452877				<0.50	0.50	B452877
Total Hardness (CaCO3)	mg/L	48.8	0.50	B452880				<0.50	0.50	B452880
Misc. Inorganics										
pH	pH	6.42	N/A	B457685	6.45	N/A	B457685	5.07	N/A	B457685
Total Organic Carbon (C)	mg/L	11	0.50	B457356				<0.50	0.50	B457356
Total Suspended Solids	mg/L	1.5	1.0	B456891				<1.0	1.0	B456891
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10	0.50	B457360				<0.50	0.50	B454801
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B457683	<1.0	1.0	B457683	<1.0	1.0	B457683
Alkalinity (Total as CaCO3)	mg/L	25	1.0	B457683	26	1.0	B457683	<1.0	1.0	B457683
Bicarbonate (HCO3)	mg/L	30	1.0	B457683	32	1.0	B457683	<1.0	1.0	B457683
Carbonate (CO3)	mg/L	<1.0	1.0	B457683	<1.0	1.0	B457683	<1.0	1.0	B457683
Hydroxide (OH)	mg/L	<1.0	1.0	B457683	<1.0	1.0	B457683	<1.0	1.0	B457683
Sulphate (SO4)	mg/L	25	1.0	B454741				<1.0	1.0	B454741
Physical Properties										
Turbidity	NTU	4.9	0.10	B454152				<0.10	0.10	B453450

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	9.4°C
Package 2	13.3°C
Package 3	11.4°C

Sample CRZ006, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B453450	Turbidity	2024/07/25			100	80 - 120	<0.10	NTU	3.2	20
B454105	Turbidity	2024/07/26			100	80 - 120	<0.10	NTU	NC	20
B454152	Turbidity	2024/07/26			99	80 - 120	<0.10	NTU	2.1	20
B454366	Sulphate (SO4)	2024/07/26	130 (1)	80 - 120	104	80 - 120	<1.0	mg/L	5.5	20
B454736	Sulphate (SO4)	2024/07/26	84	80 - 120	103	80 - 120	<1.0	mg/L	7.0	20
B454741	Sulphate (SO4)	2024/07/26	NC	80 - 120	94	80 - 120	<1.0	mg/L	9.0	20
B454767	Dissolved Barium (Ba)	2024/07/26	96	80 - 120	95	80 - 120	<0.010	mg/L	7.3	20
B454767	Dissolved Boron (B)	2024/07/26	96	80 - 120	93	80 - 120	<0.020	mg/L	NC	20
B454767	Dissolved Calcium (Ca)	2024/07/26	102	80 - 120	97	80 - 120	<0.30	mg/L	8.6	20
B454767	Dissolved Iron (Fe)	2024/07/26	101	80 - 120	95	80 - 120	<0.060	mg/L	12	20
B454767	Dissolved Lithium (Li)	2024/07/26	97	80 - 120	95	80 - 120	<0.020	mg/L	NC	20
B454767	Dissolved Magnesium (Mg)	2024/07/26	99	80 - 120	93	80 - 120	<0.20	mg/L	12	20
B454767	Dissolved Manganese (Mn)	2024/07/26	99	80 - 120	93	80 - 120	<0.0040	mg/L	12	20
B454767	Dissolved Phosphorus (P)	2024/07/26	97	80 - 120	90	80 - 120	<0.10	mg/L	NC	20
B454767	Dissolved Potassium (K)	2024/07/26	103	80 - 120	99	80 - 120	<0.30	mg/L	7.7	20
B454767	Dissolved Silicon (Si)	2024/07/26	99	80 - 120	96	80 - 120	<0.50	mg/L	6.1	20
B454767	Dissolved Sodium (Na)	2024/07/26	102	80 - 120	100	80 - 120	<0.50	mg/L	7.5	20
B454767	Dissolved Strontium (Sr)	2024/07/26	93	80 - 120	92	80 - 120	<0.020	mg/L	5.1	20
B454767	Dissolved Sulphur (S)	2024/07/26	99	80 - 120	91	80 - 120	<0.20	mg/L	9.1	20
B454779	Dissolved Barium (Ba)	2024/07/26	97	80 - 120	94	80 - 120	<0.010	mg/L	9.5	20
B454779	Dissolved Boron (B)	2024/07/26	97	80 - 120	95	80 - 120	<0.020	mg/L	NC	20
B454779	Dissolved Calcium (Ca)	2024/07/26	101	80 - 120	95	80 - 120	<0.30	mg/L	0.78	20
B454779	Dissolved Iron (Fe)	2024/07/26	101	80 - 120	95	80 - 120	<0.060	mg/L	1.6	20
B454779	Dissolved Lithium (Li)	2024/07/26	97	80 - 120	92	80 - 120	<0.020	mg/L	NC	20
B454779	Dissolved Magnesium (Mg)	2024/07/26	100	80 - 120	91	80 - 120	<0.20	mg/L	1.6	20
B454779	Dissolved Manganese (Mn)	2024/07/26	99	80 - 120	92	80 - 120	<0.0040	mg/L	NC	20
B454779	Dissolved Phosphorus (P)	2024/07/26	97	80 - 120	90	80 - 120	<0.10	mg/L	NC	20
B454779	Dissolved Potassium (K)	2024/07/26	104	80 - 120	98	80 - 120	<0.30	mg/L	2.3	20
B454779	Dissolved Silicon (Si)	2024/07/26	97	80 - 120	95	80 - 120	<0.50	mg/L	5.9	20
B454779	Dissolved Sodium (Na)	2024/07/26	102	80 - 120	98	80 - 120	<0.50	mg/L	0.73	20
B454779	Dissolved Strontium (Sr)	2024/07/26	93	80 - 120	91	80 - 120	<0.020	mg/L	1.3	20
B454779	Dissolved Sulphur (S)	2024/07/26	96	80 - 120	91	80 - 120	<0.20	mg/L	1.6	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B454801	Dissolved Organic Carbon (C)	2024/07/26	103	80 - 120	105	80 - 120	<0.50	mg/L	3.0	20
B455119	Dissolved Aluminum (Al)	2024/07/26	97	80 - 120	99	80 - 120	<0.0030	mg/L	0.73	20
B455119	Dissolved Antimony (Sb)	2024/07/26	104	80 - 120	106	80 - 120	<0.00060	mg/L	NC	20
B455119	Dissolved Arsenic (As)	2024/07/26	103	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B455119	Dissolved Beryllium (Be)	2024/07/26	98	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B455119	Dissolved Chromium (Cr)	2024/07/26	93	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B455119	Dissolved Cobalt (Co)	2024/07/26	93	80 - 120	94	80 - 120	<0.00030	mg/L	NC	20
B455119	Dissolved Copper (Cu)	2024/07/26	93	80 - 120	95	80 - 120	<0.0010	mg/L	0.28	20
B455119	Dissolved Lead (Pb)	2024/07/26	93	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B455119	Dissolved Molybdenum (Mo)	2024/07/26	97	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B455119	Dissolved Nickel (Ni)	2024/07/26	92	80 - 120	95	80 - 120	<0.00050	mg/L	5.8	20
B455119	Dissolved Selenium (Se)	2024/07/26	108	80 - 120	109	80 - 120	<0.00020	mg/L	NC	20
B455119	Dissolved Silver (Ag)	2024/07/26	93	80 - 120	94	80 - 120	<0.00010	mg/L	NC	20
B455119	Dissolved Thallium (Tl)	2024/07/26	92	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B455119	Dissolved Tin (Sn)	2024/07/26	98	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B455119	Dissolved Titanium (Ti)	2024/07/26	92	80 - 120	92	80 - 120	<0.0010	mg/L	NC	20
B455119	Dissolved Uranium (U)	2024/07/26	94	80 - 120	94	80 - 120	<0.00010	mg/L	NC	20
B455119	Dissolved Vanadium (V)	2024/07/26	95	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B455119	Dissolved Zinc (Zn)	2024/07/26	95	80 - 120	100	80 - 120	<0.0030	mg/L	1.5	20
B455424	Sulphate (SO4)	2024/07/26	104	80 - 120	104	80 - 120	<1.0	mg/L	NC	20
B455602	Dissolved Barium (Ba)	2024/07/26	102	80 - 120	101	80 - 120	<0.010	mg/L		
B455602	Dissolved Boron (B)	2024/07/26	95	80 - 120	96	80 - 120	<0.020	mg/L		
B455602	Dissolved Calcium (Ca)	2024/07/26	99	80 - 120	96	80 - 120	<0.30	mg/L		
B455602	Dissolved Iron (Fe)	2024/07/26	118	80 - 120	101	80 - 120	<0.060	mg/L	NC	20
B455602	Dissolved Lithium (Li)	2024/07/26	109	80 - 120	99	80 - 120	<0.020	mg/L		
B455602	Dissolved Magnesium (Mg)	2024/07/26	107	80 - 120	99	80 - 120	<0.20	mg/L		
B455602	Dissolved Manganese (Mn)	2024/07/26	NC	80 - 120	96	80 - 120	<0.0040	mg/L		
B455602	Dissolved Phosphorus (P)	2024/07/26			100	80 - 120	<0.10	mg/L		
B455602	Dissolved Potassium (K)	2024/07/26	101	80 - 120	98	80 - 120	<0.30	mg/L		
B455602	Dissolved Silicon (Si)	2024/07/26	NC	80 - 120	96	80 - 120	<0.50	mg/L		
B455602	Dissolved Sodium (Na)	2024/07/26	NC	80 - 120	95	80 - 120	<0.50	mg/L		
B455602	Dissolved Strontium (Sr)	2024/07/26	99	80 - 120	99	80 - 120	<0.020	mg/L		

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B455602	Dissolved Sulphur (S)	2024/07/26	NC	80 - 120	97	80 - 120	<0.20	mg/L		
B456486	Dissolved Aluminum (Al)	2024/07/28	91	80 - 120	96	80 - 120	<0.0030	mg/L	17	20
B456486	Dissolved Antimony (Sb)	2024/07/28	101	80 - 120	89	80 - 120	<0.00060	mg/L	NC	20
B456486	Dissolved Arsenic (As)	2024/07/28	103	80 - 120	89	80 - 120	<0.00020	mg/L	NC	20
B456486	Dissolved Beryllium (Be)	2024/07/28	96	80 - 120	92	80 - 120	<0.0010	mg/L	NC	20
B456486	Dissolved Chromium (Cr)	2024/07/28	98	80 - 120	92	80 - 120	<0.0010	mg/L	NC	20
B456486	Dissolved Cobalt (Co)	2024/07/28	97	80 - 120	92	80 - 120	<0.00030	mg/L	NC	20
B456486	Dissolved Copper (Cu)	2024/07/28	99	80 - 120	93	80 - 120	<0.0010	mg/L	9.3	20
B456486	Dissolved Lead (Pb)	2024/07/28	97	80 - 120	90	80 - 120	<0.00020	mg/L	NC	20
B456486	Dissolved Molybdenum (Mo)	2024/07/28	99	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B456486	Dissolved Nickel (Ni)	2024/07/28	98	80 - 120	93	80 - 120	<0.00050	mg/L	8.5	20
B456486	Dissolved Selenium (Se)	2024/07/28	102	80 - 120	86	80 - 120	<0.00020	mg/L	1.0	20
B456486	Dissolved Silver (Ag)	2024/07/28	96	80 - 120	91	80 - 120	<0.00010	mg/L	NC	20
B456486	Dissolved Thallium (Tl)	2024/07/28	97	80 - 120	90	80 - 120	<0.00020	mg/L	NC	20
B456486	Dissolved Tin (Sn)	2024/07/28	98	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B456486	Dissolved Titanium (Ti)	2024/07/28	97	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B456486	Dissolved Uranium (U)	2024/07/28	98	80 - 120	93	80 - 120	<0.00010	mg/L	NC	20
B456486	Dissolved Vanadium (V)	2024/07/28	99	80 - 120	92	80 - 120	<0.0010	mg/L	NC	20
B456486	Dissolved Zinc (Zn)	2024/07/28	NC	80 - 120	84	80 - 120	<0.0030	mg/L	8.5	20
B456768	Total Barium (Ba)	2024/07/28	96	80 - 120	96	80 - 120	<0.010	mg/L	NC	20
B456768	Total Boron (B)	2024/07/28	93	80 - 120	93	80 - 120	<0.020	mg/L	NC	20
B456768	Total Calcium (Ca)	2024/07/28	97	80 - 120	97	80 - 120	<0.30	mg/L	1.1	20
B456768	Total Iron (Fe)	2024/07/28	103	80 - 120	102	80 - 120	<0.070	mg/L	3.2	20
B456768	Total Lithium (Li)	2024/07/28	99	80 - 120	98	80 - 120	<0.020	mg/L	NC	20
B456768	Total Magnesium (Mg)	2024/07/28	102	80 - 120	101	80 - 120	<0.20	mg/L	0.22	20
B456768	Total Manganese (Mn)	2024/07/28	98	80 - 120	97	80 - 120	<0.0040	mg/L	0.78	20
B456768	Total Phosphorus (P)	2024/07/28	102	80 - 120	101	80 - 120	<0.10	mg/L		
B456768	Total Potassium (K)	2024/07/28	99	80 - 120	98	80 - 120	<0.30	mg/L	5.8	20
B456768	Total Silicon (Si)	2024/07/28	102	80 - 120	101	80 - 120	<0.50	mg/L	NC	20
B456768	Total Sodium (Na)	2024/07/28	96	80 - 120	98	80 - 120	<0.50	mg/L	0.089	20
B456768	Total Strontium (Sr)	2024/07/28	92	80 - 120	92	80 - 120	<0.020	mg/L	NC	20
B456768	Total Sulphur (S)	2024/07/28	97	80 - 120	97	80 - 120	<0.20	mg/L	2.9	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B456772	Total Aluminum (Al)	2024/07/28	99	80 - 120	104	80 - 120	<0.0030	mg/L	NC	20
B456772	Total Antimony (Sb)	2024/07/28	102	80 - 120	115	80 - 120	<0.00060	mg/L	NC	20
B456772	Total Arsenic (As)	2024/07/28	100	80 - 120	109	80 - 120	<0.00020	mg/L	4.7	20
B456772	Total Beryllium (Be)	2024/07/28	100	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B456772	Total Chromium (Cr)	2024/07/28	99	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20
B456772	Total Cobalt (Co)	2024/07/28	100	80 - 120	106	80 - 120	<0.00030	mg/L	NC	20
B456772	Total Copper (Cu)	2024/07/28	98	80 - 120	106	80 - 120	<0.0010	mg/L	8.4	20
B456772	Total Lead (Pb)	2024/07/28	99	80 - 120	115	80 - 120	<0.00020	mg/L	NC	20
B456772	Total Molybdenum (Mo)	2024/07/28	99	80 - 120	112	80 - 120	<0.00020	mg/L	3.6	20
B456772	Total Nickel (Ni)	2024/07/28	98	80 - 120	106	80 - 120	<0.00050	mg/L	12	20
B456772	Total Selenium (Se)	2024/07/28	98	80 - 120	111	80 - 120	<0.00020	mg/L	NC	20
B456772	Total Silver (Ag)	2024/07/28	96	80 - 120	110	80 - 120	<0.00010	mg/L	NC	20
B456772	Total Thallium (Tl)	2024/07/28	101	80 - 120	118	80 - 120	<0.00020	mg/L	NC	20
B456772	Total Tin (Sn)	2024/07/28	97	80 - 120	115	80 - 120	<0.0010	mg/L	NC	20
B456772	Total Titanium (Ti)	2024/07/28	98	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B456772	Total Uranium (U)	2024/07/28	103	80 - 120	113	80 - 120	<0.00010	mg/L	8.0	20
B456772	Total Vanadium (V)	2024/07/28	102	80 - 120	107	80 - 120	<0.0010	mg/L	NC	20
B456772	Total Zinc (Zn)	2024/07/28	95	80 - 120	110	80 - 120	<0.0030	mg/L	NC	20
B456887	Total Suspended Solids	2024/07/29	92	80 - 120	96	80 - 120	<1.0	mg/L	4.9	20
B456891	Total Suspended Solids	2024/07/30	95	80 - 120	96	80 - 120	<1.0	mg/L	NC	20
B457202	Total Aluminum (Al)	2024/07/29	93	80 - 120	98	80 - 120	<0.0030	mg/L	3.6	20
B457202	Total Antimony (Sb)	2024/07/29	106	80 - 120	105	80 - 120	<0.00060	mg/L	NC	20
B457202	Total Arsenic (As)	2024/07/29	102	80 - 120	102	80 - 120	<0.00020	mg/L	13	20
B457202	Total Beryllium (Be)	2024/07/29	101	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B457202	Total Chromium (Cr)	2024/07/29	96	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B457202	Total Cobalt (Co)	2024/07/29	97	80 - 120	99	80 - 120	<0.00030	mg/L	NC	20
B457202	Total Copper (Cu)	2024/07/29	94	80 - 120	99	80 - 120	<0.0010	mg/L	2.8	20
B457202	Total Lead (Pb)	2024/07/29	101	80 - 120	101	80 - 120	<0.00020	mg/L	17	20
B457202	Total Molybdenum (Mo)	2024/07/29	102	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B457202	Total Nickel (Ni)	2024/07/29	96	80 - 120	99	80 - 120	<0.00050	mg/L	2.8	20
B457202	Total Selenium (Se)	2024/07/29	104	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B457202	Total Silver (Ag)	2024/07/29	99	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B457202	Total Thallium (Tl)	2024/07/29	102	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B457202	Total Tin (Sn)	2024/07/29	101	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B457202	Total Titanium (Ti)	2024/07/29	97	80 - 120	98	80 - 120	<0.0010	mg/L	18	20
B457202	Total Uranium (U)	2024/07/29	103	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20
B457202	Total Vanadium (V)	2024/07/29	100	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B457202	Total Zinc (Zn)	2024/07/29	78 (1)	80 - 120	102	80 - 120	<0.0030	mg/L	3.0	20
B457205	Total Barium (Ba)	2024/07/29	100	80 - 120	100	80 - 120	<0.010	mg/L	NC	20
B457205	Total Boron (B)	2024/07/29	91	80 - 120	90	80 - 120	<0.020	mg/L	NC	20
B457205	Total Calcium (Ca)	2024/07/29	93	80 - 120	92	80 - 120	<0.30	mg/L	2.7	20
B457205	Total Iron (Fe)	2024/07/29	94	80 - 120	92	80 - 120	<0.060	mg/L	3.9	20
B457205	Total Lithium (Li)	2024/07/29	92	80 - 120	90	80 - 120	<0.020	mg/L	NC	20
B457205	Total Magnesium (Mg)	2024/07/29	96	80 - 120	96	80 - 120	<0.20	mg/L	2.1	20
B457205	Total Manganese (Mn)	2024/07/29	92	80 - 120	91	80 - 120	<0.0040	mg/L	5.2	20
B457205	Total Phosphorus (P)	2024/07/29	93	80 - 120	92	80 - 120	<0.10	mg/L	NC	20
B457205	Total Potassium (K)	2024/07/29	95	80 - 120	94	80 - 120	<0.30	mg/L	2.4	20
B457205	Total Silicon (Si)	2024/07/29	94	80 - 120	93	80 - 120	<0.50	mg/L	2.8	20
B457205	Total Sodium (Na)	2024/07/29	95	80 - 120	94	80 - 120	<0.50	mg/L	2.8	20
B457205	Total Strontium (Sr)	2024/07/29	94	80 - 120	95	80 - 120	<0.020	mg/L	3.3	20
B457205	Total Sulphur (S)	2024/07/29	84	80 - 120	90	80 - 120	<0.20	mg/L	4.8	20
B457356	Total Organic Carbon (C)	2024/07/29	NC	80 - 120	98	80 - 120	<0.50	mg/L	6.2	20
B457360	Dissolved Organic Carbon (C)	2024/07/29	NC	80 - 120	103	80 - 120	<0.50	mg/L	0.63	20
B457623	Total Aluminum (Al)	2024/07/30	108	80 - 120	103	80 - 120	<0.0030	mg/L	2.5	20
B457623	Total Antimony (Sb)	2024/07/30	112	80 - 120	103	80 - 120	<0.00060	mg/L	NC	20
B457623	Total Arsenic (As)	2024/07/30	111	80 - 120	106	80 - 120	<0.00020	mg/L	4.4	20
B457623	Total Beryllium (Be)	2024/07/30	107	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B457623	Total Chromium (Cr)	2024/07/30	103	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B457623	Total Cobalt (Co)	2024/07/30	103	80 - 120	102	80 - 120	<0.00030	mg/L	NC	20
B457623	Total Copper (Cu)	2024/07/30	104	80 - 120	103	80 - 120	<0.0010	mg/L	4.7	20
B457623	Total Lead (Pb)	2024/07/30	108	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B457623	Total Molybdenum (Mo)	2024/07/30	109	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B457623	Total Nickel (Ni)	2024/07/30	103	80 - 120	103	80 - 120	<0.00050	mg/L	6.1	20
B457623	Total Selenium (Se)	2024/07/30	110	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B457623	Total Silver (Ag)	2024/07/30	106	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B457623	Total Thallium (Tl)	2024/07/30	112	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B457623	Total Tin (Sn)	2024/07/30	109	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B457623	Total Titanium (Ti)	2024/07/30	100	80 - 120	99	80 - 120	<0.0010	mg/L	8.8	20
B457623	Total Uranium (U)	2024/07/30	109	80 - 120	106	80 - 120	<0.00010	mg/L	NC	20
B457623	Total Vanadium (V)	2024/07/30	105	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B457623	Total Zinc (Zn)	2024/07/30	110	80 - 120	105	80 - 120	<0.0030	mg/L	1.1	20
B457631	Total Barium (Ba)	2024/07/29	98	80 - 120	99	80 - 120	<0.010	mg/L	NC	20
B457631	Total Boron (B)	2024/07/29	94	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B457631	Total Calcium (Ca)	2024/07/29	97	80 - 120	96	80 - 120	<0.30	mg/L	0.21	20
B457631	Total Iron (Fe)	2024/07/29	97	80 - 120	97	80 - 120	<0.060	mg/L	3.7	20
B457631	Total Lithium (Li)	2024/07/29	95	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B457631	Total Magnesium (Mg)	2024/07/29	99	80 - 120	101	80 - 120	<0.20	mg/L	1.1	20
B457631	Total Manganese (Mn)	2024/07/29	93	80 - 120	94	80 - 120	<0.0040	mg/L	3.5	20
B457631	Total Phosphorus (P)	2024/07/29	96	80 - 120	97	80 - 120	<0.10	mg/L	NC	20
B457631	Total Potassium (K)	2024/07/29	98	80 - 120	98	80 - 120	<0.30	mg/L	0.71	20
B457631	Total Silicon (Si)	2024/07/29	97	80 - 120	97	80 - 120	<0.50	mg/L	1.7	20
B457631	Total Sodium (Na)	2024/07/29	98	80 - 120	97	80 - 120	<0.50	mg/L	1.1	20
B457631	Total Strontium (Sr)	2024/07/29	94	80 - 120	92	80 - 120	<0.020	mg/L	1.1	20
B457631	Total Sulphur (S)	2024/07/29	93	80 - 120	93	80 - 120	<0.20	mg/L	1.2	20
B457683	Alkalinity (PP as CaCO3)	2024/07/29					<1.0	mg/L	NC	20
B457683	Alkalinity (Total as CaCO3)	2024/07/29			99	80 - 120	<1.0	mg/L	4.6	20
B457683	Bicarbonate (HCO3)	2024/07/29					<1.0	mg/L	4.6	20
B457683	Carbonate (CO3)	2024/07/29					<1.0	mg/L	NC	20
B457683	Hydroxide (OH)	2024/07/29					<1.0	mg/L	NC	20
B457685	pH	2024/07/29			100	97 - 103			0.49	N/A
B457688	Alkalinity (PP as CaCO3)	2024/07/30					<1.0	mg/L	NC	20
B457688	Alkalinity (Total as CaCO3)	2024/07/30			100	80 - 120	<1.0	mg/L	1.7	20
B457688	Bicarbonate (HCO3)	2024/07/30					<1.0	mg/L	1.7	20
B457688	Carbonate (CO3)	2024/07/30					<1.0	mg/L	NC	20
B457688	Hydroxide (OH)	2024/07/30					<1.0	mg/L	NC	20
B457691	pH	2024/07/30			100	97 - 103			1.6	N/A

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B457766	Total Organic Carbon (C)	2024/07/29	NC	80 - 120	99	80 - 120	<0.50	mg/L	0.36	20
B458803	Total Organic Carbon (C)	2024/07/30	105	80 - 120	99	80 - 120	<0.50	mg/L	3.8	20
B460004	Dissolved Barium (Ba)	2024/07/30	92	80 - 120	97	80 - 120	<0.010	mg/L		
B460004	Dissolved Boron (B)	2024/07/30	98	80 - 120	96	80 - 120	<0.020	mg/L		
B460004	Dissolved Calcium (Ca)	2024/07/30	89	80 - 120	95	80 - 120	<0.30	mg/L	8.8	20
B460004	Dissolved Iron (Fe)	2024/07/30	112	80 - 120	102	80 - 120	<0.060	mg/L	NC	20
B460004	Dissolved Lithium (Li)	2024/07/30	92	80 - 120	90	80 - 120	<0.020	mg/L		
B460004	Dissolved Magnesium (Mg)	2024/07/30	NC	80 - 120	102	80 - 120	<0.20	mg/L	2.9	20
B460004	Dissolved Manganese (Mn)	2024/07/30	111	80 - 120	101	80 - 120	<0.0040	mg/L	4.7	20
B460004	Dissolved Phosphorus (P)	2024/07/30	110	80 - 120	104	80 - 120	<0.10	mg/L		
B460004	Dissolved Potassium (K)	2024/07/30	96	80 - 120	96	80 - 120	<0.30	mg/L	10	20
B460004	Dissolved Silicon (Si)	2024/07/30	104	80 - 120	105	80 - 120	<0.50	mg/L		
B460004	Dissolved Sodium (Na)	2024/07/30	88	80 - 120	93	80 - 120	<0.50	mg/L	8.0	20
B460004	Dissolved Strontium (Sr)	2024/07/30	90	80 - 120	97	80 - 120	<0.020	mg/L		
B460004	Dissolved Sulphur (S)	2024/07/30	108	80 - 120	101	80 - 120	<0.20	mg/L		
B460997	Dissolved Aluminum (Al)	2024/07/31	104	80 - 120	109	80 - 120	<0.0030	mg/L		
B460997	Dissolved Antimony (Sb)	2024/07/31	103	80 - 120	111	80 - 120	<0.00060	mg/L		
B460997	Dissolved Arsenic (As)	2024/07/31	102	80 - 120	113	80 - 120	<0.00020	mg/L		
B460997	Dissolved Beryllium (Be)	2024/07/31	96	80 - 120	104	80 - 120	<0.0010	mg/L		
B460997	Dissolved Chromium (Cr)	2024/07/31	96	80 - 120	104	80 - 120	<0.0010	mg/L		
B460997	Dissolved Cobalt (Co)	2024/07/31	97	80 - 120	104	80 - 120	<0.00030	mg/L		
B460997	Dissolved Copper (Cu)	2024/07/31	101	80 - 120	104	80 - 120	<0.0010	mg/L		
B460997	Dissolved Lead (Pb)	2024/07/31	97	80 - 120	103	80 - 120	<0.00020	mg/L		
B460997	Dissolved Molybdenum (Mo)	2024/07/31	99	80 - 120	105	80 - 120	<0.00020	mg/L		
B460997	Dissolved Nickel (Ni)	2024/07/31	97	80 - 120	103	80 - 120	<0.00050	mg/L	4.5	20
B460997	Dissolved Selenium (Se)	2024/07/31	102	80 - 120	114	80 - 120	<0.00020	mg/L		
B460997	Dissolved Silver (Ag)	2024/07/31	95	80 - 120	103	80 - 120	<0.00010	mg/L		
B460997	Dissolved Thallium (Tl)	2024/07/31	97	80 - 120	103	80 - 120	<0.00020	mg/L		
B460997	Dissolved Tin (Sn)	2024/07/31	98	80 - 120	104	80 - 120	<0.0010	mg/L		
B460997	Dissolved Titanium (Ti)	2024/07/31	98	80 - 120	101	80 - 120	<0.0010	mg/L		
B460997	Dissolved Uranium (U)	2024/07/31	95	80 - 120	104	80 - 120	<0.00010	mg/L		
B460997	Dissolved Vanadium (V)	2024/07/31	100	80 - 120	105	80 - 120	<0.0010	mg/L		

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B460997	Dissolved Zinc (Zn)	2024/07/31	NC	80 - 120	115	80 - 120	<0.0030	mg/L		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

C456200
2024/07/24 11:00

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#7500 KGS Group	Company Name:		Quotation #:	C31455	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Ed Collins	P.O. #:			730672
Address:	865 Waverly St., 3rd Floor Winnipeg MB R3T 5P4	Address:		Project:	21-1357-005	COC #:	Project Manager:
Tel:	(204) 896-1209 Fax:	Tel:	Fax:	Project Name:		C#730672-01-01	Janelle Kochan
Email:	payables@kgsgroup.com	Email:	Ecollins@kgsgroup.com	Site #:	OAM - SHERRIDON MINE SITE		
				Sampled By:	AR/MP		

Regulatory Criteria:
- [ ] ATI
- [ ] CCME
- [x] Other MWQSOL

Special Instructions: Analyze turbidity + DOC ASAP to meet hold times

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		SC-1	07/23/2024	10:50	SW	N	X	X	X	X	X	X	X	X	X	X	4	
2		SB-1		09:40			X	X	X	X	X	X	X	X	X	X	4	
3		SB-2		09:35			X	X	X	X	X	X	X	X	X	X	4	
4		CB-1		09:45			X	X	X	X	X	X	X	X	X	X	4	
5		CB-2		09:50			X	X	X	X	X	X	X	X	X	X	4	
6		EB-1		10:00			X	X	X	X	X	X	X	X	X	X	4	
7		EB-2		10:05			X	X	X	X	X	X	X	X	X	X	4	
8		NB-1		10:20			X	X	X	X	X	X	X	X	X	X	4	
9		NB-2		10:15			X	X	X	X	X	X	X	X	X	X	4	
10		CLD		10:25			X	X	X	X	X	X	X	X	X	X	4	

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT: [x]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests are > 5 days - contact your Project Manager for details

Job Specific Rush TAT (if applies to entire submission) [ ]
Date Required:
Rush Confirmation Number:
(call lab for #)

MCAL-2024-07-2182

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Time Sensitive	Laboratory Use Only: Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Adam Ruddell	24/07/24	10:30	Emma Soman	24/07/24	1100	0	[ ]	ACTR	[ ] Yes [ ] No
			SEAN EPR	2024/07/25	08:25				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
** ALL SAMPLES ARE HELD FOR 60 DAYS AFTER SAMPLE RECEIPT, FOR SPECIAL REQUESTS CONTACT YOUR PROJECT MANAGER

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

C456200
2024/07/24 11:00

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#7500 KGS Group	Company Name:		Quotation #:	C31455	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Ed Collins	P.O. #:			730672
Address:	865 Waverly St., 3rd Floor	Address:		Project:	21-1357-005		
	Winnipeg MB R3T 5P4			Project Name:		COC #:	Project Manager:
Tel:	(204) 896-1209 Fax:	Tel:	Fax:	Site #:	OAM - SHERRIDON MINE SITE	C#730672-02-01	Janelle Kochan
Email:	payables@kgsgroup.com	Email:	Ecollins@kgsgroup.com	Sampled By:	AR/MP		

Regulatory Criteria:
- [ ] ATI
- [ ] CCME
- [x] Other MWQSOG

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT: [x]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests are > 5 days - contact your Project Manager for details

Job Specific Rush TAT (if applies to entire submission) [ ]
Date Required:
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-3 SFC	01/23/2024	08:50	SW	N	X	X	X	X	X	X	X	X	X	X	4	
2		CL-3 BTM		08:40			X	X	X	X	X	X	X	X	X	X	4	
3		CL-7 SFC		08:50			X	X	X	X	X	X	X	X	X	X	4	
4		CL-7 BTM		08:50			X	X	X	X	X	X	X	X	X	X	4	
5		CL-8 SFC		08:30			X	X	X	X	X	X	X	X	X	X	4	
6		CL-8 BTM		08:30			X	X	X	X	X	X	X	X	X	X	4	
7		CL-2 SFC		09:05			X	X	X	X	X	X	X	X	X	X	4	
8		CL-2 BTM		09:05			X	X	X	X	X	X	X	X	X	X	4	
9		CL-4 SFC		08:28			X	X	X	X	X	X	X	X	X	X	4	
10		CL-4 BTM		08:20			X	X	X	X	X	X	X	X	X	X	4	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Adam Reichall/	24/07/24	10:30		24/07/24	1100				
			STAN ENV	2024/07/25	08:25	0		Actr	Yes / No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** ALL SAMPLES ARE HELD FOR 60 DAYS AFTER SAMPLE RECEIPT, FOR SPECIAL REQUESTS CONTACT YOUR PROJECT MANAGER

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

C456200
2024/07/24 11:00

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#7500 KGS Group	Company Name:		Quotation #:	C31455	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Ed Collins	P.O. #:			730672
Address:	865 Waverly St., 3rd Floor Winnipeg MB R3T 5P4	Address:		Project:	21-1357-005		
Tel:	(204) 896-1209 Fax:	Tel:	Fax:	Project Name:		COC #:	Project Manager:
Email:	payables@kgsgroup.com	Email:	Ecollins@kgsgroup.com	Site #:	OAM - SHERRIDON MINE SITE	C#730672-03-01	Janelle Kochan
				Sampled By:	AL/MP		

Regulatory Criteria:
- [ ] ATI
- [ ] CCME
- [x] Other WQSOG

Special Instructions: Analyze turbidity + DOC ASAP to meet hold times

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT: [x]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests are > 5 days - contact your Project Manager for details

Job Specific Rush TAT (if applies to entire submission) [ ]
Date Required:
Rush Confirmation Number:
(call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-5 SFC	07/23/2024	08:10	SW	N	X	X	X	X	X	X	X	X	X	X	4	
2		CL-5 BTM		08:10			X	X	X	X	X	X	X	X	X	X	4	
3		CL-6 SFC		08:08			X	X	X	X	X	X	X	X	X	X	4	
4		CL-6 BTM		08:00			X	X	X	X	X	X	X	X	X	X	4	
5		SW-116		AM			X	X	X	X	X	X	X	X	X	X	4	
6		SW-117		AM			X	X	X	X	X	X	X	X	X	X	4	
7		SW-118		AM			X	X	X	X	X	X	X	X	X	X	4	
8		Trip Blank	Lab	Lab	W		X	X	X	X	X	X	X	X	X	X	4	
9																		
10																		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
[illegible]	24/07/24	10:30	[illegible] SEAN EMC	2024/07/25	1100	8	[ ]	ACTR	[ ] Yes [ ] No
				2024/07/25	0825				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
** ALL SAMPLES ARE HELD FOR 60 DAYS AFTER SAMPLE RECEIPT, FOR SPECIAL REQUESTS CONTACT YOUR PROJECT MANAGER

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#731898-01-01, C#731898-02-01, C#731898-03-01

Report Date: 2024/08/15
Report #: R3542327
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C460811
Received: 2024/08/08, 12:00

Sample Matrix: Surface Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	20	N/A	2024/08/13	AB SOP-00005	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	8	N/A	2024/08/14	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	28	N/A	2024/08/11		Auto Calc
Cadmium - low level CCME (Total) (1)	3	N/A	2024/08/14		Auto Calc
Cadmium - low level CCME (Total) (1)	25	N/A	2024/08/15		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	24	N/A	2024/08/10	AB SOP-00020	SM24-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry (1)	4	N/A	2024/08/12	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	28	N/A	2024/08/13	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	24	N/A	2024/08/11		Auto Calc
Hardness (1)	4	N/A	2024/08/13		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	17	N/A	2024/08/14	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	11	N/A	2024/08/15	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	24	N/A	2024/08/10	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 4)	4	N/A	2024/08/12	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	1	2024/08/13	2024/08/13	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	27	2024/08/14	2024/08/14	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	28	N/A	2024/08/10	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	1	2024/08/13	2024/08/13	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	26	2024/08/14	2024/08/14	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	1	2024/08/14	2024/08/15	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	20	N/A	2024/08/13	AB SOP-00005	SM 24 4500-H+B m
pH @25°C (1, 6)	8	N/A	2024/08/14	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	28	N/A	2024/08/13	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	28	2024/08/13	2024/08/13	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	16	N/A	2024/08/10	CAL SOP-00081	SM 24 2130 B m

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#731898-01-01, C#731898-02-01, C#731898-03-01

Report Date: 2024/08/15
Report #: R3542327
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C460811
Received: 2024/08/08, 12:00

Sample Matrix: Surface Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Turbidity (1)	12	N/A	2024/08/09	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#731898-01-01, C#731898-02-01, C#731898-03-01

Report Date: 2024/08/15
Report #: R3542327
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C460811
Received: 2024/08/08, 12:00

(7) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY110		CSY111			CSY111		
Sampling Date		2024/08/07 10:30		2024/08/07 09:30			2024/08/07 09:30		
COC Number		C#731898-01-01		C#731898-01-01			C#731898-01-01		
	UNITS	SC-1	QC Batch	SB-1	RDL	QC Batch	SB-1 Lab-Dup	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.22	B472024	0.26	0.020	B472024			
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.014	B473167	0.022	0.0030	B473168	0.019	0.0030	B473168
Dissolved Antimony (Sb)	mg/L	<0.00060	B473167	<0.00060	0.00060	B473168	<0.00060	0.00060	B473168
Dissolved Arsenic (As)	mg/L	0.00043	B473167	0.00038	0.00020	B473168	0.00035	0.00020	B473168
Dissolved Barium (Ba)	mg/L	<0.010	B473237	0.012	0.010	B473237	0.010	0.010	B473237
Dissolved Beryllium (Be)	mg/L	<0.0010	B473167	<0.0010	0.0010	B473168	<0.0010	0.0010	B473168
Dissolved Boron (B)	mg/L	<0.020	B473237	<0.020	0.020	B473237	<0.020	0.020	B473237
Dissolved Calcium (Ca)	mg/L	9.3	B473237	22	0.30	B473237	23	0.30	B473237
Dissolved Chromium (Cr)	mg/L	<0.0010	B473167	<0.0010	0.0010	B473168	<0.0010	0.0010	B473168
Dissolved Cobalt (Co)	mg/L	<0.00030	B473167	<0.00030	0.00030	B473168	<0.00030	0.00030	B473168
Dissolved Copper (Cu)	mg/L	0.0091	B473167	0.011	0.0010	B473168	0.012	0.0010	B473168
Dissolved Iron (Fe)	mg/L	0.14	B473237	1.4	0.060	B473237	1.4	0.060	B473237
Dissolved Lead (Pb)	mg/L	<0.00020	B473167	<0.00020	0.00020	B473168	<0.00020	0.00020	B473168
Dissolved Lithium (Li)	mg/L	<0.020	B473237	<0.020	0.020	B473237	<0.020	0.020	B473237
Dissolved Magnesium (Mg)	mg/L	2.9	B473237	4.7	0.20	B473237	4.7	0.20	B473237
Dissolved Manganese (Mn)	mg/L	0.016	B473237	0.012	0.0040	B473237	0.012	0.0040	B473237
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B473167	0.00028	0.00020	B473168	<0.00020	0.00020	B473168
Dissolved Nickel (Ni)	mg/L	<0.00050	B473167	0.00065	0.00050	B473168	0.00060	0.00050	B473168
Dissolved Phosphorus (P)	mg/L	<0.10	B473237	<0.10	0.10	B473237	<0.10	0.10	B473237
Dissolved Potassium (K)	mg/L	1.4	B473237	2.4	0.30	B473237	2.4	0.30	B473237
Dissolved Selenium (Se)	mg/L	<0.00020	B473167	<0.00020	0.00020	B473168	<0.00020	0.00020	B473168
Dissolved Silicon (Si)	mg/L	1.1	B473237	0.91	0.50	B473237	0.87	0.50	B473237
Dissolved Silver (Ag)	mg/L	<0.00010	B473167	<0.00010	0.00010	B473168	<0.00010	0.00010	B473168
Dissolved Sodium (Na)	mg/L	1.9	B473237	2.3	0.50	B473237	2.4	0.50	B473237
Dissolved Strontium (Sr)	mg/L	0.023	B473237	0.034	0.020	B473237	0.034	0.020	B473237
Dissolved Sulphur (S)	mg/L	1.7	B473237	18	0.20	B473237	18	0.20	B473237
Dissolved Thallium (Tl)	mg/L	<0.00020	B473167	<0.00020	0.00020	B473168	<0.00020	0.00020	B473168
Dissolved Tin (Sn)	mg/L	<0.0010	B473167	<0.0010	0.0010	B473168	<0.0010	0.0010	B473168
Dissolved Titanium (Ti)	mg/L	<0.0010	B473167	<0.0010	0.0010	B473168	<0.0010	0.0010	B473168
Dissolved Uranium (U)	mg/L	<0.00010	B473167	<0.00010	0.00010	B473168	<0.00010	0.00010	B473168

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY110		CSY111			CSY111		
Sampling Date		2024/08/07 10:30		2024/08/07 09:30			2024/08/07 09:30		
COC Number		C#731898-01-01		C#731898-01-01			C#731898-01-01		
	UNITS	**SC-1**	**QC Batch**	**SB-1**	**RDL**	**QC Batch**	**SB-1 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B473167	<0.0010	0.0010	B473168	<0.0010	0.0010	B473168
Dissolved Zinc (Zn)	mg/L	0.071	B473167	0.072	0.0030	B473168	0.071	0.0030	B473168

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY112	CSY113		CSY114		CSY115		
Sampling Date		2024/08/07 09:25	2024/08/07 09:35		2024/08/07 09:40		2024/08/07 09:45		
COC Number		C#731898-01-01	C#731898-01-01		C#731898-01-01		C#731898-01-01		
	UNITS	SB-2	CB-1	QC Batch	CB-2	QC Batch	EB-1	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.23	0.24	B472024	0.26	B472025	0.38	0.020	B472028
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.017	0.017	B473167	0.018	B473167	0.021	0.0030	B473168
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B473167	<0.00060	B473167	<0.00060	0.00060	B473168
Dissolved Arsenic (As)	mg/L	0.00031	0.00035	B473167	0.00038	B473167	0.00043	0.00020	B473168
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	B473236	<0.010	B473236	0.012	0.010	B473237
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473167	<0.0010	0.0010	B473168
Dissolved Boron (B)	mg/L	<0.020	<0.020	B473236	<0.020	B473236	<0.020	0.020	B473237
Dissolved Calcium (Ca)	mg/L	21	24	B473236	23	B473236	36	0.30	B473237
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473167	<0.0010	0.0010	B473168
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B473167	<0.00030	B473167	<0.00030	0.00030	B473168
Dissolved Copper (Cu)	mg/L	0.0098	0.011	B473167	0.012	B473167	0.012	0.0010	B473168
Dissolved Iron (Fe)	mg/L	2.8	1.6	B473236	1.4	B473236	0.86	0.060	B473237
Dissolved Lead (Pb)	mg/L	0.00044	<0.00020	B473167	<0.00020	B473167	<0.00020	0.00020	B473168
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B473236	<0.020	B473236	<0.020	0.020	B473237
Dissolved Magnesium (Mg)	mg/L	4.5	4.9	B473236	4.8	B473236	6.5	0.20	B473237
Dissolved Manganese (Mn)	mg/L	0.031	0.018	B473236	0.012	B473236	0.0061	0.0040	B473237
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B473167	<0.00020	B473167	<0.00020	0.00020	B473168
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00057	B473167	0.00055	B473167	0.00092	0.00050	B473168
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B473236	<0.10	B473236	<0.10	0.10	B473237
Dissolved Potassium (K)	mg/L	2.3	2.5	B473236	2.5	B473236	3.2	0.30	B473237
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B473167	<0.00020	B473167	<0.00020	0.00020	B473168
Dissolved Silicon (Si)	mg/L	0.91	0.84	B473236	0.84	B473236	0.79	0.50	B473237
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B473167	<0.00010	B473167	<0.00010	0.00010	B473168
Dissolved Sodium (Na)	mg/L	2.3	2.4	B473236	2.4	B473236	2.9	0.50	B473237
Dissolved Strontium (Sr)	mg/L	0.033	0.035	B473236	0.035	B473236	0.045	0.020	B473237
Dissolved Sulphur (S)	mg/L	17	20	B473236	19	B473236	32	0.20	B473237
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B473167	<0.00020	B473167	<0.00020	0.00020	B473168
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473167	<0.0010	0.0010	B473168
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473167	<0.0010	0.0010	B473168
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B473167	<0.00010	B473167	<0.00010	0.00010	B473168
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473167	<0.0010	0.0010	B473168

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY112	CSY113		CSY114		CSY115		
Sampling Date		2024/08/07 09:25	2024/08/07 09:35		2024/08/07 09:40		2024/08/07 09:45		
COC Number		C#731898-01-01	C#731898-01-01		C#731898-01-01		C#731898-01-01		
	UNITS	**SB-2**	**CB-1**	**QC Batch**	**CB-2**	**QC Batch**	**EB-1**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.062	0.069	B473167	0.074	B473167	0.095	0.0030	B473168
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY116		CSY117	CSY118	CSY119		
Sampling Date		2024/08/07 09:50		2024/08/07 10:00	2024/08/07 09:55	2024/08/07 10:05		
COC Number		C#731898-01-01		C#731898-01-01	C#731898-01-01	C#731898-01-01		
	UNITS	EB-2	QC Batch	NB-1	NB-2	CLD	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.36	B472028	0.28	0.25	0.26	0.020	B472028
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.020	B473167	0.023	0.020	0.019	0.0030	B473168
Dissolved Antimony (Sb)	mg/L	<0.00060	B473167	<0.00060	<0.00060	<0.00060	0.00060	B473168
Dissolved Arsenic (As)	mg/L	0.00032	B473167	0.00035	0.00033	0.00041	0.00020	B473168
Dissolved Barium (Ba)	mg/L	0.012	B473236	<0.010	<0.010	<0.010	0.010	B474298
Dissolved Beryllium (Be)	mg/L	<0.0010	B473167	<0.0010	<0.0010	<0.0010	0.0010	B473168
Dissolved Boron (B)	mg/L	<0.020	B473236	<0.020	<0.020	<0.020	0.020	B474298
Dissolved Calcium (Ca)	mg/L	37	B473236	25	26	27	0.30	B474298
Dissolved Chromium (Cr)	mg/L	<0.0010	B473167	<0.0010	<0.0010	<0.0010	0.0010	B473168
Dissolved Cobalt (Co)	mg/L	<0.00030	B473167	<0.00030	<0.00030	<0.00030	0.00030	B473168
Dissolved Copper (Cu)	mg/L	0.012	B473167	0.013	0.012	0.013	0.0010	B473168
Dissolved Iron (Fe)	mg/L	0.74	B473236	1.4	1.2	1.3	0.060	B474298
Dissolved Lead (Pb)	mg/L	<0.00020	B473167	<0.00020	<0.00020	0.00022	0.00020	B473168
Dissolved Lithium (Li)	mg/L	<0.020	B473236	<0.020	<0.020	<0.020	0.020	B474298
Dissolved Magnesium (Mg)	mg/L	6.6	B473236	5.1	5.2	5.2	0.20	B474298
Dissolved Manganese (Mn)	mg/L	0.0049	B473236	0.012	0.0067	0.0055	0.0040	B474298
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B473167	0.00044	0.00029	<0.00020	0.00020	B473168
Dissolved Nickel (Ni)	mg/L	0.0010	B473167	0.00063	<0.00050	0.00061	0.00050	B473168
Dissolved Phosphorus (P)	mg/L	<0.10	B473236	<0.10	<0.10	<0.10	0.10	B474298
Dissolved Potassium (K)	mg/L	3.2	B473236	2.5	2.6	2.6	0.30	B474298
Dissolved Selenium (Se)	mg/L	<0.00020	B473167	<0.00020	<0.00020	<0.00020	0.00020	B473168
Dissolved Silicon (Si)	mg/L	0.78	B473236	0.78	0.78	0.78	0.50	B474298
Dissolved Silver (Ag)	mg/L	<0.00010	B473167	<0.00010	<0.00010	<0.00010	0.00010	B473168
Dissolved Sodium (Na)	mg/L	2.9	B473236	2.4	2.4	2.4	0.50	B474298
Dissolved Strontium (Sr)	mg/L	0.046	B473236	0.033	0.033	0.033	0.020	B474298
Dissolved Sulphur (S)	mg/L	34	B473236	21	20	21	0.20	B474298
Dissolved Thallium (Tl)	mg/L	<0.00020	B473167	<0.00020	<0.00020	<0.00020	0.00020	B473168
Dissolved Tin (Sn)	mg/L	<0.0010	B473167	<0.0010	<0.0010	<0.0010	0.0010	B473168
Dissolved Titanium (Ti)	mg/L	<0.0010	B473167	<0.0010	<0.0010	<0.0010	0.0010	B473168
Dissolved Uranium (U)	mg/L	<0.00010	B473167	<0.00010	<0.00010	<0.00010	0.00010	B473168
Dissolved Vanadium (V)	mg/L	<0.0010	B473167	<0.0010	<0.0010	<0.0010	0.0010	B473168

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY116		CSY117	CSY118	CSY119		
Sampling Date		2024/08/07 09:50		2024/08/07 10:00	2024/08/07 09:55	2024/08/07 10:05		
COC Number		C#731898-01-01		C#731898-01-01	C#731898-01-01	C#731898-01-01		
	UNITS	**EB-2**	**QC Batch**	**NB-1**	**NB-2**	**CLD**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.093	B473167	0.076	0.072	0.074	0.0030	B473168
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY120	CSY121		CSY122		CSY123		
Sampling Date		2024/08/07 08:40	2024/08/07 08:40		2024/08/07 08:45		2024/08/07 08:45		
COC Number		C#731898-02-01	C#731898-02-01		C#731898-02-01		C#731898-02-01		
	UNITS	CL-3 SFC	CL-3 BTM	QC Batch	CL-7 SFC	QC Batch	CL-7 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.082	0.094	B472024	0.083	B472024	0.087	0.020	B472024
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.018	0.020	B473167	0.020	B473168	0.019	0.0030	B473167
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B473167	<0.00060	B473168	<0.00060	0.00060	B473167
Dissolved Arsenic (As)	mg/L	0.00041	0.00041	B473167	0.00041	B473168	0.00048	0.00020	B473167
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	B473236	<0.010	B474298	<0.010	0.010	B473236
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473168	<0.0010	0.0010	B473167
Dissolved Boron (B)	mg/L	<0.020	<0.020	B473236	<0.020	B474298	<0.020	0.020	B473236
Dissolved Calcium (Ca)	mg/L	16	16	B473236	16	B474298	16	0.30	B473236
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473168	<0.0010	0.0010	B473167
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B473167	<0.00030	B473168	<0.00030	0.00030	B473167
Dissolved Copper (Cu)	mg/L	0.0076	0.0074	B473167	0.0077	B473168	0.0077	0.0010	B473167
Dissolved Iron (Fe)	mg/L	0.26	0.27	B473236	0.25	B474298	0.26	0.060	B473236
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B473167	<0.00020	B473168	<0.00020	0.00020	B473167
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B473236	0.027	B474298	<0.020	0.020	B473236
Dissolved Magnesium (Mg)	mg/L	4.0	4.0	B473236	3.9	B474298	4.0	0.20	B473236
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	B473236	<0.0040	B474298	<0.0040	0.0040	B473236
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B473167	0.00022	B473168	<0.00020	0.00020	B473167
Dissolved Nickel (Ni)	mg/L	<0.00050	<0.00050	B473167	<0.00050	B473168	<0.00050	0.00050	B473167
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B473236	<0.10	B474298	<0.10	0.10	B473236
Dissolved Potassium (K)	mg/L	1.9	1.8	B473236	1.9	B474298	1.9	0.30	B473236
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B473167	<0.00020	B473168	<0.00020	0.00020	B473167
Dissolved Silicon (Si)	mg/L	0.63	0.63	B473236	0.65	B474298	0.63	0.50	B473236
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B473167	<0.00010	B473168	<0.00010	0.00010	B473167
Dissolved Sodium (Na)	mg/L	2.3	2.3	B473236	2.2	B474298	2.3	0.50	B473236
Dissolved Strontium (Sr)	mg/L	0.031	0.031	B473236	0.028	B474298	0.031	0.020	B473236
Dissolved Sulphur (S)	mg/L	10	10	B473236	9.2	B474298	10	0.20	B473236
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B473167	<0.00020	B473168	<0.00020	0.00020	B473167
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473168	<0.0010	0.0010	B473167
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473168	<0.0010	0.0010	B473167
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B473167	<0.00010	B473168	<0.00010	0.00010	B473167
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473168	<0.0010	0.0010	B473167

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY120	CSY121		CSY122		CSY123		
Sampling Date		2024/08/07 08:40	2024/08/07 08:40		2024/08/07 08:45		2024/08/07 08:45		
COC Number		C#731898-02-01	C#731898-02-01		C#731898-02-01		C#731898-02-01		
	UNITS	**CL-3 SFC**	**CL-3 BTM**	**QC Batch**	**CL-7 SFC**	**QC Batch**	**CL-7 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.030	0.029	B473167	0.030	B473168	0.030	0.0030	B473167
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY124		CSY125		CSY126		
Sampling Date		2024/08/07 08:35		2024/08/07 08:35		2024/08/07 08:55		
COC Number		C#731898-02-01		C#731898-02-01		C#731898-02-01		
	UNITS	CL-8 SFC	QC Batch	CL-8 BTM	QC Batch	CL-2 SFC	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.088	B472024	0.080	B472024	0.085	0.020	B472024
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.018	B473167	0.017	B473168	0.017	0.0030	B475734
Dissolved Antimony (Sb)	mg/L	<0.00060	B473167	<0.00060	B473168	<0.00060	0.00060	B473167
Dissolved Arsenic (As)	mg/L	0.00041	B473167	0.00043	B473168	0.00043	0.00020	B473167
Dissolved Barium (Ba)	mg/L	<0.010	B473236	<0.010	B473236	0.010	0.010	B473236
Dissolved Beryllium (Be)	mg/L	<0.0010	B473167	<0.0010	B473168	<0.0010	0.0010	B473167
Dissolved Boron (B)	mg/L	<0.020	B473236	<0.020	B473236	<0.020	0.020	B473236
Dissolved Calcium (Ca)	mg/L	16	B473236	16	B473236	16	0.30	B473236
Dissolved Chromium (Cr)	mg/L	<0.0010	B473167	<0.0010	B473168	<0.0010	0.0010	B473167
Dissolved Cobalt (Co)	mg/L	<0.00030	B473167	<0.00030	B473168	<0.00030	0.00030	B473167
Dissolved Copper (Cu)	mg/L	0.0074	B473167	0.0074	B473168	0.0077	0.0010	B473167
Dissolved Iron (Fe)	mg/L	0.22	B473236	0.22	B473236	0.16	0.060	B473236
Dissolved Lead (Pb)	mg/L	<0.00020	B473167	<0.00020	B473168	<0.00020	0.00020	B473167
Dissolved Lithium (Li)	mg/L	<0.020	B473236	<0.020	B473236	<0.020	0.020	B473236
Dissolved Magnesium (Mg)	mg/L	3.9	B473236	3.9	B473236	4.0	0.20	B473236
Dissolved Manganese (Mn)	mg/L	<0.0040	B473236	<0.0040	B473236	<0.0040	0.0040	B473236
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B473167	0.00028	B473168	<0.00020	0.00020	B473167
Dissolved Nickel (Ni)	mg/L	<0.00050	B473167	<0.00050	B473168	<0.00050	0.00050	B473167
Dissolved Phosphorus (P)	mg/L	<0.10	B473236	<0.10	B473236	<0.10	0.10	B473236
Dissolved Potassium (K)	mg/L	1.8	B473236	1.8	B473236	1.9	0.30	B473236
Dissolved Selenium (Se)	mg/L	<0.00020	B473167	<0.00020	B473168	<0.00020	0.00020	B473167
Dissolved Silicon (Si)	mg/L	0.62	B473236	0.61	B473236	0.69	0.50	B473236
Dissolved Silver (Ag)	mg/L	<0.00010	B473167	<0.00010	B473168	<0.00010	0.00010	B473167
Dissolved Sodium (Na)	mg/L	2.3	B473236	2.2	B473236	2.3	0.50	B473236
Dissolved Strontium (Sr)	mg/L	0.031	B473236	0.031	B473236	0.031	0.020	B473236
Dissolved Sulphur (S)	mg/L	9.9	B473236	9.7	B473236	9.9	0.20	B473236
Dissolved Thallium (Tl)	mg/L	<0.00020	B473167	<0.00020	B473168	<0.00020	0.00020	B473167
Dissolved Tin (Sn)	mg/L	<0.0010	B473167	<0.0010	B473168	<0.0010	0.0010	B473167
Dissolved Titanium (Ti)	mg/L	<0.0010	B473167	<0.0010	B473168	<0.0010	0.0010	B473167
Dissolved Uranium (U)	mg/L	<0.00010	B473167	<0.00010	B473168	<0.00010	0.00010	B473167
Dissolved Vanadium (V)	mg/L	<0.0010	B473167	<0.0010	B473168	<0.0010	0.0010	B473167

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY124		CSY125		CSY126		
Sampling Date		2024/08/07 08:35		2024/08/07 08:35		2024/08/07 08:55		
COC Number		C#731898-02-01		C#731898-02-01		C#731898-02-01		
	UNITS	**CL-8 SFC**	**QC Batch**	**CL-8 BTM**	**QC Batch**	**CL-2 SFC**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.030	B473167	0.029	B473168	0.032	0.0030	B473167
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY127	CSY128		CSY129		CSY130		
Sampling Date		2024/08/07 08:55	2024/08/07 08:25		2024/08/07 08:25		2024/08/07 08:20		
COC Number		C#731898-02-01	C#731898-02-01		C#731898-02-01		C#731898-03-01		
	UNITS	**CL-2 BTM**	**CL-4 SFC**	**QC Batch**	**CL-4 BTM**	**QC Batch**	**CL-5 SFC**	**RDL**	**QC Batch**
Elements									
Dissolved Cadmium (Cd)	ug/L	0.12	0.076	B472024	0.079	B472024	0.068	0.020	B472024
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.019	0.017	B473167	0.017	B473167	0.023	0.0030	B473167
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B473167	<0.00060	B473167	<0.00060	0.00060	B473167
Dissolved Arsenic (As)	mg/L	0.00042	0.00041	B473167	0.00042	B473167	0.00045	0.00020	B473167
Dissolved Barium (Ba)	mg/L	0.010	<0.010	B473236	0.011	B473242	0.010	0.010	B473236
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473167	<0.0010	0.0010	B473167
Dissolved Boron (B)	mg/L	<0.020	<0.020	B473236	<0.020	B473242	<0.020	0.020	B473236
Dissolved Calcium (Ca)	mg/L	15	16	B473236	16	B473242	15	0.30	B473236
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473167	<0.0010	0.0010	B473167
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B473167	<0.00030	B473167	<0.00030	0.00030	B473167
Dissolved Copper (Cu)	mg/L	0.0070	0.0073	B473167	0.0070	B473167	0.0066	0.0010	B473167
Dissolved Iron (Fe)	mg/L	0.22	0.17	B473236	0.17	B473242	0.14	0.060	B473236
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B473167	<0.00020	B473167	<0.00020	0.00020	B473167
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B473236	<0.020	B473242	<0.020	0.020	B473236
Dissolved Magnesium (Mg)	mg/L	3.8	3.9	B473236	4.0	B473242	3.8	0.20	B473236
Dissolved Manganese (Mn)	mg/L	0.014	<0.0040	B473236	<0.0040	B473242	<0.0040	0.0040	B473236
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B473167	<0.00020	B473167	0.00042	0.00020	B473167
Dissolved Nickel (Ni)	mg/L	<0.00050	<0.00050	B473167	<0.00050	B473167	<0.00050	0.00050	B473167
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B473236	<0.10	B473242	<0.10	0.10	B473236
Dissolved Potassium (K)	mg/L	1.8	1.8	B473236	1.8	B473242	1.8	0.30	B473236
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B473167	<0.00020	B473167	<0.00020	0.00020	B473167
Dissolved Silicon (Si)	mg/L	0.90	0.61	B473236	0.63	B473242	0.55	0.50	B473236
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B473167	<0.00010	B473167	<0.00010	0.00010	B473167
Dissolved Sodium (Na)	mg/L	2.2	2.3	B473236	2.3	B473242	2.2	0.50	B473236
Dissolved Strontium (Sr)	mg/L	0.031	0.031	B473236	0.031	B473242	0.030	0.020	B473236
Dissolved Sulphur (S)	mg/L	9.4	9.6	B473236	9.5	B473242	8.6	0.20	B473236
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B473167	<0.00020	B473167	<0.00020	0.00020	B473167
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473167	<0.0010	0.0010	B473167
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B473167	<0.0010	B473167	0.0013	0.0010	B473167
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B473167	<0.00010	B473167	<0.00010	0.00010	B473167
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B473167	<0.0010	B473167	<0.0010	0.0010	B473167

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY127	CSY128		CSY129		CSY130		
Sampling Date		2024/08/07 08:55	2024/08/07 08:25		2024/08/07 08:25		2024/08/07 08:20		
COC Number		C#731898-02-01	C#731898-02-01		C#731898-02-01		C#731898-03-01		
	UNITS	**CL-2 BTM**	**CL-4 SFC**	**QC Batch**	**CL-4 BTM**	**QC Batch**	**CL-5 SFC**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.036	0.029	B473167	0.032	B473167	0.026	0.0030	B473167
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY131	CSY132	CSY133	CSY134		
Sampling Date		2024/08/07 08:20	2024/08/07 08:10	2024/08/07 08:10	2024/08/07		
COC Number		C#731898-03-01	C#731898-03-01	C#731898-03-01	C#731898-03-01		
	UNITS	CL-5 BTM	CL-6 SFC	CL-6 BTM	SW-119	RDL	QC Batch
Elements							
Dissolved Cadmium (Cd)	ug/L	0.067	0.042	0.037	0.032	0.020	B472024
Lab Filtered Elements							
Dissolved Aluminum (Al)	mg/L	0.018	0.014	0.014	0.013	0.0030	B473167
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B473167
Dissolved Arsenic (As)	mg/L	0.00048	0.00046	0.00047	0.00051	0.00020	B473167
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	<0.010	<0.010	0.010	B473236
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B473167
Dissolved Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B473236
Dissolved Calcium (Ca)	mg/L	15	13	13	14	0.30	B473236
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B473167
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B473167
Dissolved Copper (Cu)	mg/L	0.0069	0.0048	0.0052	0.0049	0.0010	B473167
Dissolved Iron (Fe)	mg/L	0.14	0.086	0.082	0.086	0.060	B473236
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B473167
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	0.020	B473236
Dissolved Magnesium (Mg)	mg/L	3.8	3.5	3.6	3.7	0.20	B473236
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	<0.0040	<0.0040	0.0040	B473236
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B473167
Dissolved Nickel (Ni)	mg/L	<0.00050	<0.00050	<0.00050	<0.00050	0.00050	B473167
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	0.10	B473236
Dissolved Potassium (K)	mg/L	1.8	1.6	1.7	1.7	0.30	B473236
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B473167
Dissolved Silicon (Si)	mg/L	0.55	<0.50	<0.50	<0.50	0.50	B473236
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B473167
Dissolved Sodium (Na)	mg/L	2.2	2.2	2.2	2.2	0.50	B473236
Dissolved Strontium (Sr)	mg/L	0.030	0.029	0.029	0.030	0.020	B473236
Dissolved Sulphur (S)	mg/L	8.5	7.2	7.2	7.3	0.20	B473236
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B473167
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B473167
Dissolved Titanium (Ti)	mg/L	0.0011	<0.0010	<0.0010	<0.0010	0.0010	B473167
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B473167
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B473167

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY131	CSY132	CSY133	CSY134		
Sampling Date		2024/08/07 08:20	2024/08/07 08:10	2024/08/07 08:10	2024/08/07		
COC Number		C#731898-03-01	C#731898-03-01	C#731898-03-01	C#731898-03-01		
	UNITS	CL-5 BTM	CL-6 SFC	CL-6 BTM	SW-119	RDL	QC Batch
Dissolved Zinc (Zn)	mg/L	0.025	0.016	0.015	0.015	0.0030	B473167
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY135		CSY136			CSY136		
Sampling Date		2024/08/07		2024/08/07			2024/08/07		
COC Number		C#731898-03-01		C#731898-03-01			C#731898-03-01		
	UNITS	SW-120	QC Batch	SW-121	RDL	QC Batch	SW-121 Lab-Dup	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.081	B472024	0.24	0.020	B472024			
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.020	B473168	0.022	0.0030	B473167	0.020	0.0030	B473167
Dissolved Antimony (Sb)	mg/L	<0.00060	B473168	<0.00060	0.00060	B473167	<0.00060	0.00060	B473167
Dissolved Arsenic (As)	mg/L	0.00044	B473168	0.00031	0.00020	B473167	0.00032	0.00020	B473167
Dissolved Barium (Ba)	mg/L	<0.010	B473236	0.012	0.010	B473236	0.010	0.010	B473236
Dissolved Beryllium (Be)	mg/L	<0.0010	B473168	<0.0010	0.0010	B473167	<0.0010	0.0010	B473167
Dissolved Boron (B)	mg/L	<0.020	B473236	<0.020	0.020	B473236	<0.020	0.020	B473236
Dissolved Calcium (Ca)	mg/L	16	B473236	24	0.30	B473236	24	0.30	B473236
Dissolved Chromium (Cr)	mg/L	<0.0010	B473168	<0.0010	0.0010	B473167	<0.0010	0.0010	B473167
Dissolved Cobalt (Co)	mg/L	<0.00030	B473168	<0.00030	0.00030	B473167	<0.00030	0.00030	B473167
Dissolved Copper (Cu)	mg/L	0.0077	B473168	0.012	0.0010	B473167	0.011	0.0010	B473167
Dissolved Iron (Fe)	mg/L	0.25	B473236	1.4	0.060	B473236	1.5	0.060	B473236
Dissolved Lead (Pb)	mg/L	<0.00020	B473168	<0.00020	0.00020	B473167	<0.00020	0.00020	B473167
Dissolved Lithium (Li)	mg/L	<0.020	B473236	<0.020	0.020	B473236	<0.020	0.020	B473236
Dissolved Magnesium (Mg)	mg/L	3.7	B473236	4.8	0.20	B473236	4.8	0.20	B473236
Dissolved Manganese (Mn)	mg/L	<0.0040	B473236	0.012	0.0040	B473236	0.012	0.0040	B473236
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B473168	<0.00020	0.00020	B473167	<0.00020	0.00020	B473167
Dissolved Nickel (Ni)	mg/L	<0.00050	B473168	0.00054	0.00050	B473167	0.00054	0.00050	B473167
Dissolved Phosphorus (P)	mg/L	<0.10	B473236	<0.10	0.10	B473236	<0.10	0.10	B473236
Dissolved Potassium (K)	mg/L	1.8	B473236	2.5	0.30	B473236	2.5	0.30	B473236
Dissolved Selenium (Se)	mg/L	<0.00020	B473168	<0.00020	0.00020	B473167	<0.00020	0.00020	B473167
Dissolved Silicon (Si)	mg/L	0.60	B473236	0.91	0.50	B473236	0.87	0.50	B473236
Dissolved Silver (Ag)	mg/L	<0.00010	B473168	<0.00010	0.00010	B473167	<0.00010	0.00010	B473167
Dissolved Sodium (Na)	mg/L	2.2	B473236	2.4	0.50	B473236	2.4	0.50	B473236
Dissolved Strontium (Sr)	mg/L	0.030	B473236	0.035	0.020	B473236	0.035	0.020	B473236
Dissolved Sulphur (S)	mg/L	9.7	B473236	19	0.20	B473236	19	0.20	B473236
Dissolved Thallium (Tl)	mg/L	<0.00020	B473168	<0.00020	0.00020	B473167	<0.00020	0.00020	B473167
Dissolved Tin (Sn)	mg/L	<0.0010	B473168	<0.0010	0.0010	B473167	<0.0010	0.0010	B473167
Dissolved Titanium (Ti)	mg/L	<0.0010	B473168	<0.0010	0.0010	B473167	<0.0010	0.0010	B473167
Dissolved Uranium (U)	mg/L	<0.00010	B473168	<0.00010	0.00010	B473167	<0.00010	0.00010	B473167

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY135		CSY136			CSY136		
Sampling Date		2024/08/07		2024/08/07			2024/08/07		
COC Number		C#731898-03-01		C#731898-03-01			C#731898-03-01		
	UNITS	**SW-120**	**QC Batch**	**SW-121**	**RDL**	**QC Batch**	**SW-121 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B473168	<0.0010	0.0010	B473167	<0.0010	0.0010	B473167
Dissolved Zinc (Zn)	mg/L	0.031	B473168	0.072	0.0030	B473167	0.070	0.0030	B473167

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY137		
Sampling Date		2024/08/07		
COC Number		C#731898-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Elements				
Dissolved Cadmium (Cd)	ug/L	<0.020	0.020	B472024
Lab Filtered Elements				
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	B473167
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B473167
Dissolved Arsenic (As)	mg/L	<0.00020	0.00020	B473167
Dissolved Barium (Ba)	mg/L	<0.010	0.010	B473236
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B473167
Dissolved Boron (B)	mg/L	<0.020	0.020	B473236
Dissolved Calcium (Ca)	mg/L	<0.30	0.30	B473236
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B473167
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B473167
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	B473167
Dissolved Iron (Fe)	mg/L	<0.060	0.060	B473236
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B473167
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B473236
Dissolved Magnesium (Mg)	mg/L	<0.20	0.20	B473236
Dissolved Manganese (Mn)	mg/L	<0.0040	0.0040	B473236
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B473167
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B473167
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B473236
Dissolved Potassium (K)	mg/L	<0.30	0.30	B473236
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B473167
Dissolved Silicon (Si)	mg/L	<0.50	0.50	B473236
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B473167
Dissolved Sodium (Na)	mg/L	<0.50	0.50	B473236
Dissolved Strontium (Sr)	mg/L	<0.020	0.020	B473236
Dissolved Sulphur (S)	mg/L	<0.20	0.20	B473236
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B473167
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B473167
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B473167
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B473167
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B473167
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CSY137		
Sampling Date		2024/08/07		
COC Number		C#731898-03-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	<0.0030	0.0030	B473167
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY110	CSY111	CSY112		CSY113		
Sampling Date		2024/08/07 10:30	2024/08/07 09:30	2024/08/07 09:25		2024/08/07 09:35		
COC Number		C#731898-01-01	C#731898-01-01	C#731898-01-01		C#731898-01-01		
	UNITS	SC-1	SB-1	SB-2	QC Batch	CB-1	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.21	0.28	0.25	B472029	0.36	0.020	B472029
Total Aluminum (Al)	mg/L	0.038	0.060	0.059	B477803	0.063	0.0030	B476835
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	B477803	<0.00060	0.00060	B476835
Total Arsenic (As)	mg/L	0.00050	0.00042	0.00040	B477803	0.00045	0.00020	B476835
Total Barium (Ba)	mg/L	<0.010	<0.010	<0.010	B477811	<0.010	0.010	B476839
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	B477803	<0.0010	0.0010	B476835
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	B477811	<0.020	0.020	B476839
Total Calcium (Ca)	mg/L	7.8	20	17	B477811	20	0.30	B476839
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	B477803	<0.0010	0.0010	B476835
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	B477803	<0.00030	0.00030	B476835
Total Copper (Cu)	mg/L	0.011	0.014	0.013	B477803	0.018	0.0010	B476835
Total Iron (Fe)	mg/L	0.19	1.6	3.0	B477811	2.2	0.060	B476839
Total Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	B477803	<0.00020	0.00020	B476835
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	B477811	<0.020	0.020	B476839
Total Magnesium (Mg)	mg/L	2.5	4.2	3.8	B477811	4.6	0.20	B476839
Total Manganese (Mn)	mg/L	0.027	0.022	0.029	B477811	0.027	0.0040	B476839
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	B477803	<0.00020	0.00020	B476835
Total Nickel (Ni)	mg/L	0.00050	0.00088	0.00089	B477803	0.0013	0.00050	B476835
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	B477811	<0.10	0.10	B476839
Total Potassium (K)	mg/L	1.3	2.2	2.0	B477811	2.2	0.30	B476839
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	B477803	0.00021	0.00020	B476835
Total Silicon (Si)	mg/L	1.1	0.95	0.96	B477811	0.98	0.50	B476839
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	B477803	<0.00010	0.00010	B476835
Total Sodium (Na)	mg/L	1.6	2.2	2.0	B477811	2.1	0.50	B476839
Total Strontium (Sr)	mg/L	<0.020	0.029	0.027	B477811	0.033	0.020	B476839
Total Sulphur (S)	mg/L	1.4	16	14	B477811	18	0.20	B476839
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	B477803	<0.00020	0.00020	B476835
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	B477803	<0.0010	0.0010	B476835
Total Titanium (Ti)	mg/L	<0.0010	0.0024	0.0024	B477803	0.0025	0.0010	B476835
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	B477803	<0.00010	0.00010	B476835
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	B477803	<0.0010	0.0010	B476835

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY110	CSY111	CSY112		CSY113		
Sampling Date		2024/08/07 10:30	2024/08/07 09:30	2024/08/07 09:25		2024/08/07 09:35		
COC Number		C#731898-01-01	C#731898-01-01	C#731898-01-01		C#731898-01-01		
	UNITS	**SC-1**	**SB-1**	**SB-2**	**QC Batch**	**CB-1**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.066	0.073	0.068	B477803	0.10	0.0030	B476835
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY114		CSY115		CSY116		
Sampling Date		2024/08/07 09:40		2024/08/07 09:45		2024/08/07 09:50		
COC Number		C#731898-01-01		C#731898-01-01		C#731898-01-01		
	UNITS	CB-2	QC Batch	EB-1	QC Batch	EB-2	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.27	B472029	0.42	B472029	0.39	0.020	B472029
Total Aluminum (Al)	mg/L	0.059	B477803	0.080	B476835	0.092	0.0030	B477803
Total Antimony (Sb)	mg/L	<0.00060	B477803	<0.00060	B476835	<0.00060	0.00060	B477803
Total Arsenic (As)	mg/L	0.00039	B477803	0.00029	B476835	0.00029	0.00020	B477803
Total Barium (Ba)	mg/L	<0.010	B477811	0.012	B476839	0.010	0.010	B477811
Total Beryllium (Be)	mg/L	<0.0010	B477803	<0.0010	B476835	<0.0010	0.0010	B477803
Total Boron (B)	mg/L	<0.020	B477811	<0.020	B476839	<0.020	0.020	B477811
Total Calcium (Ca)	mg/L	20	B477811	33	B476839	31	0.30	B477811
Total Chromium (Cr)	mg/L	<0.0010	B477803	<0.0010	B476835	<0.0010	0.0010	B477803
Total Cobalt (Co)	mg/L	<0.00030	B477803	<0.00030	B476835	<0.00030	0.00030	B477803
Total Copper (Cu)	mg/L	0.014	B477803	0.016	B476835	0.015	0.0010	B477803
Total Iron (Fe)	mg/L	1.6	B477811	1.4	B476839	1.0	0.060	B477811
Total Lead (Pb)	mg/L	<0.00020	B477803	0.00022	B476835	0.00050	0.00020	B477803
Total Lithium (Li)	mg/L	<0.020	B477811	<0.020	B476839	<0.020	0.020	B477811
Total Magnesium (Mg)	mg/L	4.1	B477811	6.1	B476839	5.6	0.20	B477811
Total Manganese (Mn)	mg/L	0.020	B477811	0.016	B476839	0.013	0.0040	B477811
Total Molybdenum (Mo)	mg/L	<0.00020	B477803	<0.00020	B476835	<0.00020	0.00020	B477803
Total Nickel (Ni)	mg/L	0.00097	B477803	0.0015	B476835	0.0014	0.00050	B477803
Total Phosphorus (P)	mg/L	<0.10	B477811	<0.10	B476839	<0.10	0.10	B477811
Total Potassium (K)	mg/L	2.2	B477811	3.0	B476839	2.9	0.30	B477811
Total Selenium (Se)	mg/L	<0.00020	B477803	<0.00020	B476835	<0.00020	0.00020	B477803
Total Silicon (Si)	mg/L	0.92	B477811	1.0	B476839	0.87	0.50	B477811
Total Silver (Ag)	mg/L	<0.00010	B477803	<0.00010	B476835	<0.00010	0.00010	B477803
Total Sodium (Na)	mg/L	2.1	B477811	2.8	B476839	2.6	0.50	B477811
Total Strontium (Sr)	mg/L	0.029	B477811	0.042	B476839	0.037	0.020	B477811
Total Sulphur (S)	mg/L	16	B477811	30	B476839	29	0.20	B477811
Total Thallium (Tl)	mg/L	<0.00020	B477803	<0.00020	B476835	<0.00020	0.00020	B477803
Total Tin (Sn)	mg/L	<0.0010	B477803	<0.0010	B476835	<0.0010	0.0010	B477803
Total Titanium (Ti)	mg/L	0.0021	B477803	0.0048	B476835	0.0040	0.0010	B477803
Total Uranium (U)	mg/L	<0.00010	B477803	<0.00010	B476835	<0.00010	0.00010	B477803
Total Vanadium (V)	mg/L	<0.0010	B477803	<0.0010	B476835	<0.0010	0.0010	B477803

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY114		CSY115		CSY116		
Sampling Date		2024/08/07 09:40		2024/08/07 09:45		2024/08/07 09:50		
COC Number		C#731898-01-01		C#731898-01-01		C#731898-01-01		
	UNITS	**CB-2**	**QC Batch**	**EB-1**	**QC Batch**	**EB-2**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.077	B477803	0.11	B476835	0.099	0.0030	B477803
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY117			CSY117			CSY118		
Sampling Date		2024/08/07 10:00			2024/08/07 10:00			2024/08/07 09:55		
COC Number		C#731898-01-01			C#731898-01-01			C#731898-01-01		
	UNITS	NB-1	RDL	QC Batch	NB-1 Lab-Dup	RDL	QC Batch	NB-2	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L	0.39	0.020	B472029				0.26	0.020	B472029
Total Aluminum (Al)	mg/L	0.059	0.0030	B476835	0.052	0.0030	B476835	0.050	0.0030	B477905
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B476835	<0.00060	0.00060	B476835	<0.00060	0.00060	B477905
Total Arsenic (As)	mg/L	0.00051	0.00020	B476835	0.00046	0.00020	B476835	0.00036	0.00020	B477905
Total Barium (Ba)	mg/L	<0.010	0.010	B476839	<0.010	0.010	B476839	<0.010	0.010	B477911
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B476835	<0.0010	0.0010	B476835	<0.0010	0.0010	B477905
Total Boron (B)	mg/L	<0.020	0.020	B476839	<0.020	0.020	B476839	<0.020	0.020	B477911
Total Calcium (Ca)	mg/L	26	0.30	B476839	25	0.30	B476839	22	0.30	B477911
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B476835	<0.0010	0.0010	B476835	<0.0010	0.0010	B477905
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B476835	<0.00030	0.00030	B476835	<0.00030	0.00030	B477905
Total Copper (Cu)	mg/L	0.020	0.0010	B476835	0.018	0.0010	B476835	0.014	0.0010	B477905
Total Iron (Fe)	mg/L	1.8	0.060	B476839	1.8	0.060	B476839	1.4	0.060	B477911
Total Lead (Pb)	mg/L	<0.00020	0.00020	B476835	<0.00020	0.00020	B476835	0.0013	0.00020	B477905
Total Lithium (Li)	mg/L	<0.020	0.020	B476839	<0.020	0.020	B476839	<0.020	0.020	B477911
Total Magnesium (Mg)	mg/L	5.1	0.20	B476839	5.0	0.20	B476839	4.3	0.20	B477911
Total Manganese (Mn)	mg/L	0.023	0.0040	B476839	0.023	0.0040	B476839	0.018	0.0040	B477911
Total Molybdenum (Mo)	mg/L	0.00021	0.00020	B476835	<0.00020	0.00020	B476835	0.00028	0.00020	B477905
Total Nickel (Ni)	mg/L	0.0016	0.00050	B476835	0.0011	0.00050	B476835	0.00083	0.00050	B477905
Total Phosphorus (P)	mg/L	<0.10	0.10	B476839	<0.10	0.10	B476839	<0.10	0.10	B477911
Total Potassium (K)	mg/L	2.6	0.30	B476839	2.5	0.30	B476839	2.1	0.30	B477911
Total Selenium (Se)	mg/L	0.00021	0.00020	B476835	<0.00020	0.00020	B476835	<0.00020	0.00020	B477905
Total Silicon (Si)	mg/L	0.92	0.50	B476839	0.89	0.50	B476839	0.85	0.50	B477911
Total Silver (Ag)	mg/L	<0.00010	0.00010	B476835	<0.00010	0.00010	B476835	<0.00010	0.00010	B477905
Total Sodium (Na)	mg/L	2.4	0.50	B476839	2.4	0.50	B476839	2.1	0.50	B477911
Total Strontium (Sr)	mg/L	0.036	0.020	B476839	0.035	0.020	B476839	0.032	0.020	B477911
Total Sulphur (S)	mg/L	21	0.20	B476839	21	0.20	B476839	19	0.20	B477911
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B476835	<0.00020	0.00020	B476835	<0.00020	0.00020	B477905
Total Tin (Sn)	mg/L	<0.0010	0.0010	B476835	<0.0010	0.0010	B476835	<0.0010	0.0010	B477905
Total Titanium (Ti)	mg/L	0.0017	0.0010	B476835	0.0020	0.0010	B476835	0.0021	0.0010	B477905
Total Uranium (U)	mg/L	<0.00010	0.00010	B476835	<0.00010	0.00010	B476835	<0.00010	0.00010	B477905
Total Vanadium (V)	mg/L	<0.0010	0.0010	B476835	<0.0010	0.0010	B476835	<0.0010	0.0010	B477905

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY117			CSY117			CSY118		
Sampling Date		2024/08/07 10:00			2024/08/07 10:00			2024/08/07 09:55		
COC Number		C#731898-01-01			C#731898-01-01			C#731898-01-01		
	UNITS	**NB-1**	**RDL**	**QC Batch**	**NB-1 Lab-Dup**	**RDL**	**QC Batch**	**NB-2**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.11	0.0030	B476835	0.10	0.0030	B476835	0.069	0.0030	B477905

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY119		CSY120			CSY120		
Sampling Date		2024/08/07 10:05		2024/08/07 08:40			2024/08/07 08:40		
COC Number		C#731898-01-01		C#731898-02-01			C#731898-02-01		
	UNITS	CLD	QC Batch	CL-3 SFC	RDL	QC Batch	CL-3 SFC Lab-Dup	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.31	B472029	0.11	0.020	B471845			
Total Aluminum (Al)	mg/L	0.057	B476835	0.048	0.0030	B477803	0.049	0.0030	B477803
Total Antimony (Sb)	mg/L	<0.00060	B476835	<0.00060	0.00060	B477803	<0.00060	0.00060	B477803
Total Arsenic (As)	mg/L	0.00036	B476835	0.00043	0.00020	B477803	0.00043	0.00020	B477803
Total Barium (Ba)	mg/L	<0.010	B476839	<0.010	0.010	B477811	<0.010	0.010	B477811
Total Beryllium (Be)	mg/L	<0.0010	B476835	<0.0010	0.0010	B477803	<0.0010	0.0010	B477803
Total Boron (B)	mg/L	<0.020	B476839	<0.020	0.020	B477811	<0.020	0.020	B477811
Total Calcium (Ca)	mg/L	26	B476839	14	0.30	B477811	14	0.30	B477811
Total Chromium (Cr)	mg/L	<0.0010	B476835	<0.0010	0.0010	B477803	<0.0010	0.0010	B477803
Total Cobalt (Co)	mg/L	<0.00030	B476835	<0.00030	0.00030	B477803	<0.00030	0.00030	B477803
Total Copper (Cu)	mg/L	0.016	B476835	0.0091	0.0010	B477803	0.0093	0.0010	B477803
Total Iron (Fe)	mg/L	1.7	B476839	0.38	0.060	B477811	0.38	0.060	B477811
Total Lead (Pb)	mg/L	<0.00020	B476835	0.00037	0.00020	B477803	<0.00020	0.00020	B477803
Total Lithium (Li)	mg/L	<0.020	B476839	<0.020	0.020	B477811	<0.020	0.020	B477811
Total Magnesium (Mg)	mg/L	5.0	B476839	3.4	0.20	B477811	3.4	0.20	B477811
Total Manganese (Mn)	mg/L	0.020	B476839	0.012	0.0040	B477811	0.012	0.0040	B477811
Total Molybdenum (Mo)	mg/L	<0.00020	B476835	<0.00020	0.00020	B477803	<0.00020	0.00020	B477803
Total Nickel (Ni)	mg/L	0.0010	B476835	0.00080	0.00050	B477803	0.00071	0.00050	B477803
Total Phosphorus (P)	mg/L	<0.10	B476839	<0.10	0.10	B477811	<0.10	0.10	B477811
Total Potassium (K)	mg/L	2.5	B476839	1.7	0.30	B477811	1.7	0.30	B477811
Total Selenium (Se)	mg/L	<0.00020	B476835	<0.00020	0.00020	B477803	<0.00020	0.00020	B477803
Total Silicon (Si)	mg/L	0.93	B476839	0.70	0.50	B477811	0.69	0.50	B477811
Total Silver (Ag)	mg/L	<0.00010	B476835	<0.00010	0.00010	B477803	<0.00010	0.00010	B477803
Total Sodium (Na)	mg/L	2.4	B476839	2.0	0.50	B477811	2.0	0.50	B477811
Total Strontium (Sr)	mg/L	0.035	B476839	0.026	0.020	B477811	0.026	0.020	B477811
Total Sulphur (S)	mg/L	21	B476839	8.6	0.20	B477811	8.6	0.20	B477811
Total Thallium (Tl)	mg/L	<0.00020	B476835	<0.00020	0.00020	B477803	<0.00020	0.00020	B477803
Total Tin (Sn)	mg/L	<0.0010	B476835	<0.0010	0.0010	B477803	<0.0010	0.0010	B477803
Total Titanium (Ti)	mg/L	0.0037	B476835	0.0017	0.0010	B477803	0.0013	0.0010	B477803
Total Uranium (U)	mg/L	<0.00010	B476835	<0.00010	0.00010	B477803	<0.00010	0.00010	B477803
Total Vanadium (V)	mg/L	<0.0010	B476835	<0.0010	0.0010	B477803	<0.0010	0.0010	B477803

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY119		CSY120			CSY120		
Sampling Date		2024/08/07 10:05		2024/08/07 08:40			2024/08/07 08:40		
COC Number		C#731898-01-01		C#731898-02-01			C#731898-02-01		
	UNITS	**CLD**	**QC Batch**	**CL-3 SFC**	**RDL**	**QC Batch**	**CL-3 SFC Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.088	B476835	0.033	0.0030	B477803	0.034	0.0030	B477803

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY121	CSY122	CSY123	CSY124	CSY125		
Sampling Date		2024/08/07 08:40	2024/08/07 08:45	2024/08/07 08:45	2024/08/07 08:35	2024/08/07 08:35		
COC Number		C#731898-02-01	C#731898-02-01	C#731898-02-01	C#731898-02-01	C#731898-02-01		
	UNITS	CL-3 BTM	CL-7 SFC	CL-7 BTM	CL-8 SFC	CL-8 BTM	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.16	0.16	0.13	0.17	0.11	0.020	B471845
Total Aluminum (Al)	mg/L	0.066	0.062	0.048	0.069	0.048	0.0030	B476835
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B476835
Total Arsenic (As)	mg/L	0.00058	0.00070	0.00048	0.00071	0.00051	0.00020	B476835
Total Barium (Ba)	mg/L	0.010	0.010	0.010	0.010	0.010	0.010	B476839
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B476835
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B476839
Total Calcium (Ca)	mg/L	15	15	15	15	15	0.30	B476839
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B476835
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B476835
Total Copper (Cu)	mg/L	0.013	0.012	0.011	0.013	0.0094	0.0010	B476835
Total Iron (Fe)	mg/L	0.52	0.50	0.49	0.44	0.42	0.060	B476839
Total Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	0.00087	<0.00020	0.00020	B476835
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B476839
Total Magnesium (Mg)	mg/L	3.8	3.9	3.8	3.8	3.8	0.20	B476839
Total Manganese (Mn)	mg/L	0.016	0.016	0.016	0.015	0.014	0.0040	B476839
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B476835
Total Nickel (Ni)	mg/L	0.0010	0.0016	0.00079	0.011	0.0018	0.00050	B476835
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B476839
Total Potassium (K)	mg/L	1.8	1.8	1.9	1.8	1.9	0.30	B476839
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B476835
Total Silicon (Si)	mg/L	0.77	0.78	0.80	0.76	0.77	0.50	B476839
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B476835
Total Sodium (Na)	mg/L	2.2	2.2	2.3	2.3	2.2	0.50	B476839
Total Strontium (Sr)	mg/L	0.030	0.031	0.030	0.030	0.030	0.020	B476839
Total Sulphur (S)	mg/L	9.7	9.6	9.6	9.3	9.3	0.20	B476839
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B476835
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B476835
Total Titanium (Ti)	mg/L	0.0019	0.0021	0.0013	0.0028	0.0014	0.0010	B476835
Total Uranium (U)	mg/L	<0.00010	<0.00010	0.00019	<0.00010	<0.00010	0.00010	B476835
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B476835

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY121	CSY122	CSY123	CSY124	CSY125		
Sampling Date		2024/08/07 08:40	2024/08/07 08:45	2024/08/07 08:45	2024/08/07 08:35	2024/08/07 08:35		
COC Number		C#731898-02-01	C#731898-02-01	C#731898-02-01	C#731898-02-01	C#731898-02-01		
	UNITS	CL-3 BTM	CL-7 SFC	CL-7 BTM	CL-8 SFC	CL-8 BTM	RDL	QC Batch
Total Zinc (Zn)	mg/L	0.053	0.049	0.040	0.055	0.037	0.0030	B476835
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY126		CSY127		CSY128		
Sampling Date		2024/08/07 08:55		2024/08/07 08:55		2024/08/07 08:25		
COC Number		C#731898-02-01		C#731898-02-01		C#731898-02-01		
	UNITS	CL-2 SFC	QC Batch	CL-2 BTM	QC Batch	CL-4 SFC	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.12	B471845	0.18	B471845	0.097	0.020	B471845
Total Aluminum (Al)	mg/L	0.042	B477803	0.055	B476835	0.050	0.0030	B477803
Total Antimony (Sb)	mg/L	<0.00060	B477803	<0.00060	B476835	<0.00060	0.00060	B477803
Total Arsenic (As)	mg/L	0.00038	B477803	0.00065	B476835	0.00045	0.00020	B477803
Total Barium (Ba)	mg/L	<0.010	B477811	0.011	B476839	<0.010	0.010	B477811
Total Beryllium (Be)	mg/L	<0.0010	B477803	<0.0010	B476835	<0.0010	0.0010	B477803
Total Boron (B)	mg/L	<0.020	B477811	<0.020	B476839	<0.020	0.020	B477811
Total Calcium (Ca)	mg/L	13	B477811	14	B476839	14	0.30	B477811
Total Chromium (Cr)	mg/L	<0.0010	B477803	<0.0010	B476835	<0.0010	0.0010	B477803
Total Cobalt (Co)	mg/L	<0.00030	B477803	<0.00030	B476835	<0.00030	0.00030	B477803
Total Copper (Cu)	mg/L	0.0091	B477803	0.012	B476835	0.0087	0.0010	B477803
Total Iron (Fe)	mg/L	0.24	B477811	0.49	B476839	0.25	0.060	B477811
Total Lead (Pb)	mg/L	<0.00020	B477803	<0.00020	B476835	<0.00020	0.00020	B477803
Total Lithium (Li)	mg/L	<0.020	B477811	<0.020	B476839	<0.020	0.020	B477811
Total Magnesium (Mg)	mg/L	3.4	B477811	3.6	B476839	3.5	0.20	B477811
Total Manganese (Mn)	mg/L	0.011	B477811	0.056	B476839	0.011	0.0040	B477811
Total Molybdenum (Mo)	mg/L	<0.00020	B477803	0.00025	B476835	<0.00020	0.00020	B477803
Total Nickel (Ni)	mg/L	0.00062	B477803	0.00091	B476835	0.00069	0.00050	B477803
Total Phosphorus (P)	mg/L	<0.10	B477811	<0.10	B476839	<0.10	0.10	B477811
Total Potassium (K)	mg/L	1.7	B477811	1.7	B476839	1.7	0.30	B477811
Total Selenium (Se)	mg/L	<0.00020	B477803	0.00021	B476835	<0.00020	0.00020	B477803
Total Silicon (Si)	mg/L	0.78	B477811	1.0	B476839	0.68	0.50	B477811
Total Silver (Ag)	mg/L	<0.00010	B477803	<0.00010	B476835	<0.00010	0.00010	B477803
Total Sodium (Na)	mg/L	2.0	B477811	2.2	B476839	2.0	0.50	B477811
Total Strontium (Sr)	mg/L	0.026	B477811	0.029	B476839	0.026	0.020	B477811
Total Sulphur (S)	mg/L	8.4	B477811	8.6	B476839	8.2	0.20	B477811
Total Thallium (Tl)	mg/L	<0.00020	B477803	<0.00020	B476835	<0.00020	0.00020	B477803
Total Tin (Sn)	mg/L	<0.0010	B477803	<0.0010	B476835	<0.0010	0.0010	B477803
Total Titanium (Ti)	mg/L	0.0014	B477803	0.0013	B476835	0.0011	0.0010	B477803
Total Uranium (U)	mg/L	<0.00010	B477803	<0.00010	B476835	<0.00010	0.00010	B477803
Total Vanadium (V)	mg/L	<0.0010	B477803	<0.0010	B476835	<0.0010	0.0010	B477803

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY126		CSY127		CSY128		
Sampling Date		2024/08/07 08:55		2024/08/07 08:55		2024/08/07 08:25		
COC Number		C#731898-02-01		C#731898-02-01		C#731898-02-01		
	UNITS	**CL-2 SFC**	**QC Batch**	**CL-2 BTM**	**QC Batch**	**CL-4 SFC**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.033	B477803	0.056	B476835	0.031	0.0030	B477803
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY129	CSY130		CSY131		CSY132		
Sampling Date		2024/08/07 08:25	2024/08/07 08:20		2024/08/07 08:20		2024/08/07 08:10		
COC Number		C#731898-02-01	C#731898-03-01		C#731898-03-01		C#731898-03-01		
	UNITS	CL-4 BTM	CL-5 SFC	QC Batch	CL-5 BTM	QC Batch	CL-6 SFC	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.13	0.10	B471845	0.088	B471845	0.061	0.020	B471845
Total Aluminum (Al)	mg/L	0.056	0.052	B476835	0.055	B475423	0.048	0.0030	B477803
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B476835	<0.00060	B475423	<0.00060	0.00060	B477803
Total Arsenic (As)	mg/L	0.00061	0.00050	B476835	0.00041	B475423	0.00042	0.00020	B477803
Total Barium (Ba)	mg/L	<0.010	0.010	B476839	<0.010	B475425	<0.010	0.010	B477811
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B476835	<0.0010	B475423	<0.0010	0.0010	B477803
Total Boron (B)	mg/L	<0.020	<0.020	B476839	<0.020	B475425	<0.020	0.020	B477811
Total Calcium (Ca)	mg/L	14	14	B476839	13	B475425	12	0.30	B477811
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B476835	<0.0010	B475423	<0.0010	0.0010	B477803
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B476835	<0.00030	B475423	<0.00030	0.00030	B477803
Total Copper (Cu)	mg/L	0.011	0.0086	B476835	0.0083	B475423	0.0064	0.0010	B477803
Total Iron (Fe)	mg/L	0.31	0.25	B476839	0.25	B475425	0.16	0.060	B477811
Total Lead (Pb)	mg/L	<0.00020	0.00025	B476835	<0.00020	B475423	0.00020	0.00020	B477803
Total Lithium (Li)	mg/L	<0.020	<0.020	B476839	<0.020	B475425	<0.020	0.020	B477811
Total Magnesium (Mg)	mg/L	3.7	3.6	B476839	3.6	B475425	3.2	0.20	B477811
Total Manganese (Mn)	mg/L	0.013	0.013	B476839	0.014	B475425	0.014	0.0040	B477811
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B476835	<0.00020	B475423	0.0015	0.00020	B477803
Total Nickel (Ni)	mg/L	0.00089	0.00073	B476835	0.00066	B475423	0.00064	0.00050	B477803
Total Phosphorus (P)	mg/L	<0.10	<0.10	B476839	<0.10	B475425	<0.10	0.10	B477811
Total Potassium (K)	mg/L	1.8	1.7	B476839	1.6	B475425	1.5	0.30	B477811
Total Selenium (Se)	mg/L	<0.00020	0.00020	B476835	<0.00020	B475423	<0.00020	0.00020	B477803
Total Silicon (Si)	mg/L	0.74	0.69	B476839	0.76	B475425	0.53	0.50	B477811
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B476835	<0.00010	B475423	<0.00010	0.00010	B477803
Total Sodium (Na)	mg/L	2.2	2.2	B476839	2.1	B475425	2.0	0.50	B477811
Total Strontium (Sr)	mg/L	0.029	0.029	B476839	0.028	B475425	0.025	0.020	B477811
Total Sulphur (S)	mg/L	8.7	8.0	B476839	8.3	B475425	6.2	0.20	B477811
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B476835	<0.00020	B475423	<0.00020	0.00020	B477803
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B476835	<0.0010	B475423	<0.0010	0.0010	B477803
Total Titanium (Ti)	mg/L	0.0020	0.0020	B476835	0.0014	B475423	0.0017	0.0010	B477803
Total Uranium (U)	mg/L	<0.00010	<0.00010	B476835	<0.00010	B475423	<0.00010	0.00010	B477803
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B476835	<0.0010	B475423	<0.0010	0.0010	B477803

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY129	CSY130		CSY131		CSY132		
Sampling Date		2024/08/07 08:25	2024/08/07 08:20		2024/08/07 08:20		2024/08/07 08:10		
COC Number		C#731898-02-01	C#731898-03-01		C#731898-03-01		C#731898-03-01		
	UNITS	**CL-4 BTM**	**CL-5 SFC**	**QC Batch**	**CL-5 BTM**	**QC Batch**	**CL-6 SFC**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.045	0.033	B476835	0.031	B475423	0.019	0.0030	B477803
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY133	CSY134		CSY135		CSY136		
Sampling Date		2024/08/07 08:10	2024/08/07		2024/08/07		2024/08/07		
COC Number		C#731898-03-01	C#731898-03-01		C#731898-03-01		C#731898-03-01		
	UNITS	CL-6 BTM	SW-119	QC Batch	SW-120	QC Batch	SW-121	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.081	0.068	B471845	0.10	B471845	0.28	0.020	B471845
Total Aluminum (Al)	mg/L	0.056	0.050	B476835	0.051	B477803	0.055	0.0030	B476835
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B476835	<0.00060	B477803	<0.00060	0.00060	B476835
Total Arsenic (As)	mg/L	0.00053	0.00051	B476835	0.00044	B477803	0.00030	0.00020	B476835
Total Barium (Ba)	mg/L	<0.010	0.011	B476839	<0.010	B477811	<0.010	0.010	B476839
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B476835	<0.0010	B477803	<0.0010	0.0010	B476835
Total Boron (B)	mg/L	<0.020	0.021	B476839	<0.020	B477811	<0.020	0.020	B476839
Total Calcium (Ca)	mg/L	11	13	B476839	14	B477811	21	0.30	B476839
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B476835	<0.0010	B477803	<0.0010	0.0010	B476835
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B476835	<0.00030	B477803	<0.00030	0.00030	B476835
Total Copper (Cu)	mg/L	0.0079	0.0070	B476835	0.0093	B477803	0.014	0.0010	B476835
Total Iron (Fe)	mg/L	0.21	0.20	B476839	0.39	B477811	1.9	0.060	B476839
Total Lead (Pb)	mg/L	<0.00020	0.00091	B476835	<0.00020	B477803	<0.00020	0.00020	B476835
Total Lithium (Li)	mg/L	<0.020	<0.020	B476839	<0.020	B477811	<0.020	0.020	B476839
Total Magnesium (Mg)	mg/L	3.5	3.5	B476839	3.5	B477811	4.5	0.20	B476839
Total Manganese (Mn)	mg/L	0.017	0.017	B476839	0.013	B477811	0.023	0.0040	B476839
Total Molybdenum (Mo)	mg/L	<0.00020	0.00030	B476835	<0.00020	B477803	0.00023	0.00020	B476835
Total Nickel (Ni)	mg/L	0.00077	0.00087	B476835	0.00064	B477803	0.00097	0.00050	B476835
Total Phosphorus (P)	mg/L	<0.10	<0.10	B476839	<0.10	B477811	<0.10	0.10	B476839
Total Potassium (K)	mg/L	1.5	1.7	B476839	1.7	B477811	2.3	0.30	B476839
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B476835	<0.00020	B477803	0.00020	0.00020	B476835
Total Silicon (Si)	mg/L	0.63	0.65	B476839	0.70	B477811	0.96	0.50	B476839
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B476835	<0.00010	B477803	<0.00010	0.00010	B476835
Total Sodium (Na)	mg/L	2.0	2.2	B476839	2.0	B477811	2.3	0.50	B476839
Total Strontium (Sr)	mg/L	0.028	0.029	B476839	0.026	B477811	0.032	0.020	B476839
Total Sulphur (S)	mg/L	6.8	6.7	B476839	8.7	B477811	17	0.20	B476839
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B476835	<0.00020	B477803	<0.00020	0.00020	B476835
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B476835	<0.0010	B477803	<0.0010	0.0010	B476835
Total Titanium (Ti)	mg/L	0.0026	0.0017	B476835	0.0018	B477803	0.0024	0.0010	B476835
Total Uranium (U)	mg/L	<0.00010	<0.00010	B476835	<0.00010	B477803	<0.00010	0.00010	B476835
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B476835	<0.0010	B477803	<0.0010	0.0010	B476835

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY133	CSY134		CSY135		CSY136		
Sampling Date		2024/08/07 08:10	2024/08/07		2024/08/07		2024/08/07		
COC Number		C#731898-03-01	C#731898-03-01		C#731898-03-01		C#731898-03-01		
	UNITS	CL-6 BTM	SW-119	QC Batch	SW-120	QC Batch	SW-121	RDL	QC Batch
Total Zinc (Zn)	mg/L	0.028	0.024	B476835	0.033	B477803	0.084	0.0030	B476835
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY137		
Sampling Date		2024/08/07		
COC Number		C#731898-03-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Elements				
Total Cadmium (Cd)	ug/L	<0.020	0.020	B472029
Total Aluminum (Al)	mg/L	<0.0030	0.0030	B476835
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B476835
Total Arsenic (As)	mg/L	<0.00020	0.00020	B476835
Total Barium (Ba)	mg/L	<0.010	0.010	B476839
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B476835
Total Boron (B)	mg/L	<0.020	0.020	B476839
Total Calcium (Ca)	mg/L	<0.30	0.30	B476839
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B476835
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B476835
Total Copper (Cu)	mg/L	<0.0010	0.0010	B476835
Total Iron (Fe)	mg/L	<0.060	0.060	B476839
Total Lead (Pb)	mg/L	<0.00020	0.00020	B479283
Total Lithium (Li)	mg/L	<0.020	0.020	B476839
Total Magnesium (Mg)	mg/L	<0.20	0.20	B476839
Total Manganese (Mn)	mg/L	<0.0040	0.0040	B476839
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B476835
Total Nickel (Ni)	mg/L	0.00054	0.00050	B476835
Total Phosphorus (P)	mg/L	<0.10	0.10	B476839
Total Potassium (K)	mg/L	<0.30	0.30	B476839
Total Selenium (Se)	mg/L	<0.00020	0.00020	B476835
Total Silicon (Si)	mg/L	<0.50	0.50	B476839
Total Silver (Ag)	mg/L	<0.00010	0.00010	B476835
Total Sodium (Na)	mg/L	<0.50	0.50	B476839
Total Strontium (Sr)	mg/L	<0.020	0.020	B476839
Total Sulphur (S)	mg/L	<0.20	0.20	B476839
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B476835
Total Tin (Sn)	mg/L	<0.0010	0.0010	B476835
Total Titanium (Ti)	mg/L	<0.0010	0.0010	B476835
Total Uranium (U)	mg/L	<0.00010	0.00010	B476835
Total Vanadium (V)	mg/L	<0.0010	0.0010	B476835
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CSY137		
Sampling Date		2024/08/07		
COC Number		C#731898-03-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	<0.0030	0.0030	B476835
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C460811
Report Date: 2024/08/15

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RCP

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		CSY110	CSY111			CSY111		
Sampling Date		2024/08/07 10:30	2024/08/07 09:30			2024/08/07 09:30		
COC Number		C#731898-01-01	C#731898-01-01			C#731898-01-01		
	UNITS	SC-1	SB-1	RDL	QC Batch	SB-1 Lab-Dup	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	35	75	0.50	B471863			
Total Hardness (CaCO3)	mg/L	29.8	66.0	0.50	B471609			
Misc. Inorganics								
pH	pH	6.65	6.40	N/A	B474642	6.46	N/A	B474642
Total Organic Carbon (C)	mg/L	14	12	0.50	B475821			
Total Suspended Solids	mg/L	<1.0	<1.0	1.0	B475000			
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	13	11	0.50	B475079			
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	1.0	B474640	<1.0	1.0	B474640
Alkalinity (Total as CaCO3)	mg/L	29	23	1.0	B474640	22	1.0	B474640
Bicarbonate (HCO3)	mg/L	36	28	1.0	B474640	27	1.0	B474640
Carbonate (CO3)	mg/L	<1.0	<1.0	1.0	B474640	<1.0	1.0	B474640
Hydroxide (OH)	mg/L	<1.0	<1.0	1.0	B474640	<1.0	1.0	B474640
Sulphate (SO4)	mg/L	2.4	52	1.0	B473184	51	1.0	B473184
Physical Properties								
Turbidity	NTU	1.5	3.8	0.10	B472848			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C460811
Report Date: 2024/08/15

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RCP

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		CSY112		CSY113		CSY114		
Sampling Date		2024/08/07 09:25		2024/08/07 09:35		2024/08/07 09:40		
COC Number		C#731898-01-01		C#731898-01-01		C#731898-01-01		
	UNITS	SB-2	QC Batch	CB-1	QC Batch	CB-2	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	70	B471863	80	B471863	78	0.50	B471863
Total Hardness (CaCO3)	mg/L	58.9	B471609	68.5	B471609	66.2	0.50	B471609
Misc. Inorganics								
pH	pH	6.55	B474642	6.48	B474642	6.51	N/A	B474642
Total Organic Carbon (C)	mg/L	12	B475821	11	B475821	13	0.50	B475821
Total Suspended Solids	mg/L	1.5	B475000	<1.0	B475000	1.0	1.0	B475000
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	11	B475079	11	B475079	12	0.50	B475079
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B474640	<1.0	B474640	<1.0	1.0	B474640
Alkalinity (Total as CaCO3)	mg/L	21	B474640	21	B474640	22	1.0	B474640
Bicarbonate (HCO3)	mg/L	25	B474640	26	B474640	27	1.0	B474640
Carbonate (CO3)	mg/L	<1.0	B474640	<1.0	B474640	<1.0	1.0	B474640
Hydroxide (OH)	mg/L	<1.0	B474640	<1.0	B474640	<1.0	1.0	B474640
Sulphate (SO4)	mg/L	49	B472970	56	B473182	55	1.0	B472970
Physical Properties								
Turbidity	NTU	5.7	B472848	4.3	B472848	3.5	0.10	B472849

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C460811
Report Date: 2024/08/15

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RCP

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		CSY114			CSY115		CSY116		
Sampling Date		2024/08/07 09:40			2024/08/07 09:45		2024/08/07 09:50		
COC Number		C#731898-01-01			C#731898-01-01		C#731898-01-01		
	UNITS	CB-2 Lab-Dup	RDL	QC Batch	EB-1	QC Batch	EB-2	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				120	B471863	120	0.50	B471863
Total Hardness (CaCO3)	mg/L				107	B471609	99.4	0.50	B471609
Misc. Inorganics									
pH	pH				6.44	B474642	6.60	N/A	B475894
Total Organic Carbon (C)	mg/L				10	B475821	10	0.50	B475821
Total Suspended Solids	mg/L				<1.0	B475000	1.6	1.0	B475000
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L				9.8	B475079	10	0.50	B475200
Anions									
Alkalinity (PP as CaCO3)	mg/L				<1.0	B474640	<1.0	1.0	B475893
Alkalinity (Total as CaCO3)	mg/L				16	B474640	14	1.0	B475893
Bicarbonate (HCO3)	mg/L				20	B474640	17	1.0	B475893
Carbonate (CO3)	mg/L				<1.0	B474640	<1.0	1.0	B475893
Hydroxide (OH)	mg/L				<1.0	B474640	<1.0	1.0	B475893
Sulphate (SO4)	mg/L				93	B473184	97	1.0	B472970
Physical Properties									
Turbidity	NTU	3.6	0.10	B472849	3.4	B472849	3.6	0.10	B472849

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C460811
Report Date: 2024/08/15

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RCP

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		CSY116			CSY117		CSY118		
Sampling Date		2024/08/07 09:50			2024/08/07 10:00		2024/08/07 09:55		
COC Number		C#731898-01-01			C#731898-01-01		C#731898-01-01		
	UNITS	EB-2 Lab-Dup	RDL	QC Batch	NB-1	QC Batch	NB-2	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				84	B471863	86	0.50	B472074
Total Hardness (CaCO3)	mg/L				84.7	B471609	72.2	0.50	B471609
Misc. Inorganics									
pH	pH				6.51	B474642	6.55	N/A	B474642
Total Organic Carbon (C)	mg/L	9.9	0.50	B475821	11	B475821	10	0.50	B475429
Total Suspended Solids	mg/L				<1.0	B475000	<1.0	1.0	B475000
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L				11	B475200	12	0.50	B475200
Anions									
Alkalinity (PP as CaCO3)	mg/L				<1.0	B474640	<1.0	1.0	B474640
Alkalinity (Total as CaCO3)	mg/L				21	B474640	22	1.0	B474640
Bicarbonate (HCO3)	mg/L				25	B474640	27	1.0	B474640
Carbonate (CO3)	mg/L				<1.0	B474640	<1.0	1.0	B474640
Hydroxide (OH)	mg/L				<1.0	B474640	<1.0	1.0	B474640
Sulphate (SO4)	mg/L				65	B473231	64	1.0	B473231
Physical Properties									
Turbidity	NTU				2.6	B472849	3.2	0.10	B472849

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C460811
Report Date: 2024/08/15

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RCP

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		CSY119			CSY120	CSY121		CSY122		
Sampling Date		2024/08/07 10:05			2024/08/07 08:40	2024/08/07 08:40		2024/08/07 08:45		
COC Number		C#731898-01-01			C#731898-02-01	C#731898-02-01		C#731898-02-01		
	UNITS	CLD	RDL	QC Batch	CL-3 SFC	CL-3 BTM	QC Batch	CL-7 SFC	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	88	0.50	B472074	57	57	B472074	55	0.50	B472074
Total Hardness (CaCO3)	mg/L	84.7	0.50	B471609	48.4	54.1	B471609	53.9	0.50	B471609
Misc. Inorganics										
pH	pH	6.53	N/A	B474642	6.58	6.58	B474642	6.66	N/A	B474642
Total Organic Carbon (C)	mg/L	12	0.50	B475429	12	11	B475429	11	0.50	B475429
Total Suspended Solids	mg/L	<0.97	0.97	B475000	<1.0	<1.0	B475000	<1.0	1.0	B475000
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	12	0.50	B475200	11	12	B475079	12	0.50	B475200
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B474640	<1.0	<1.0	B474640	<1.0	1.0	B474640
Alkalinity (Total as CaCO3)	mg/L	22	1.0	B474640	30	27	B474640	27	1.0	B474640
Bicarbonate (HCO3)	mg/L	27	1.0	B474640	37	33	B474640	33	1.0	B474640
Carbonate (CO3)	mg/L	<1.0	1.0	B474640	<1.0	<1.0	B474640	<1.0	1.0	B474640
Hydroxide (OH)	mg/L	<1.0	1.0	B474640	<1.0	<1.0	B474640	<1.0	1.0	B474640
Sulphate (SO4)	mg/L	67	1.0	B473231	30	30	B472970	30	1.0	B473231
Physical Properties										
Turbidity	NTU	3.4	0.10	B472849	1.9	2.3	B472849	2.2	0.10	B472849

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C460811
Report Date: 2024/08/15

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RCP

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		CSY122			CSY123		CSY124		
Sampling Date		2024/08/07 08:45			2024/08/07 08:45		2024/08/07 08:35		
COC Number		C#731898-02-01			C#731898-02-01		C#731898-02-01		
	UNITS	CL-7 SFC Lab-Dup	RDL	QC Batch	CL-7 BTM	QC Batch	CL-8 SFC	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				57	B472074	56	0.50	B472074
Total Hardness (CaCO3)	mg/L				54.2	B471609	53.2	0.50	B471609
Misc. Inorganics									
pH	pH				6.61	B474642	6.80	N/A	B475894
Total Organic Carbon (C)	mg/L	12	0.50	B475429	11	B475429	11	0.50	B475429
Total Suspended Solids	mg/L				<1.0	B475000	<1.0	1.0	B475000
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L				10	B475079	11	0.50	B475200
Anions									
Alkalinity (PP as CaCO3)	mg/L				<1.0	B474640	<1.0	1.0	B475893
Alkalinity (Total as CaCO3)	mg/L				27	B474640	26	1.0	B475893
Bicarbonate (HCO3)	mg/L				33	B474640	31	1.0	B475893
Carbonate (CO3)	mg/L				<1.0	B474640	<1.0	1.0	B475893
Hydroxide (OH)	mg/L				<1.0	B474640	<1.0	1.0	B475893
Sulphate (SO4)	mg/L				29	B472970	29	1.0	B472970
Physical Properties									
Turbidity	NTU				2.9	B472849	2.2	0.10	B472849

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C460811
Report Date: 2024/08/15

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RCP

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		CSY125		CSY126		CSY127		
Sampling Date		2024/08/07 08:35		2024/08/07 08:55		2024/08/07 08:55		
COC Number		C#731898-02-01		C#731898-02-01		C#731898-02-01		
	UNITS	CL-8 BTM	QC Batch	CL-2 SFC	QC Batch	CL-2 BTM	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	55	B472074	57	B472074	54	0.50	B472074
Total Hardness (CaCO3)	mg/L	52.7	B471609	47.4	B471609	50.3	0.50	B471609
Misc. Inorganics								
pH	pH	6.62	B474642	6.58	B474642	6.77	N/A	B475894
Total Organic Carbon (C)	mg/L	11	B475429	12	B475429	10	0.50	B475429
Total Suspended Solids	mg/L	<1.0	B475001	<1.0	B475001	1.0	1.0	B475001
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	11	B475200	9.9	B475200	11	0.50	B475200
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B474640	<1.0	B474640	<1.0	1.0	B475893
Alkalinity (Total as CaCO3)	mg/L	27	B474640	27	B474640	25	1.0	B475893
Bicarbonate (HCO3)	mg/L	33	B474640	33	B474640	31	1.0	B475893
Carbonate (CO3)	mg/L	<1.0	B474640	<1.0	B474640	<1.0	1.0	B475893
Hydroxide (OH)	mg/L	<1.0	B474640	<1.0	B474640	<1.0	1.0	B475893
Sulphate (SO4)	mg/L	29	B473182	29	B472970	27	1.0	B472970
Physical Properties								
Turbidity	NTU	3.7	B472187	2.4	B472187	4.3	0.10	B472187

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		CSY127			CSY128		CSY129		
Sampling Date		2024/08/07 08:55			2024/08/07 08:25		2024/08/07 08:25		
COC Number		C#731898-02-01			C#731898-02-01		C#731898-02-01		
	UNITS	CL-2 BTM Lab-Dup	RDL	QC Batch	CL-4 SFC	QC Batch	CL-4 BTM	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				55	B472074	57	0.50	B472074
Total Hardness (CaCO3)	mg/L				48.1	B471609	50.5	0.50	B471609
Misc. Inorganics									
pH	pH				6.51	B474642	6.59	N/A	B474642
Total Organic Carbon (C)	mg/L				11	B475429	11	0.50	B475429
Total Suspended Solids	mg/L				<1.0	B475001	<1.0	1.0	B475001
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	9.7	0.50	B475200	11	B475200	11	0.50	B475079
Anions									
Alkalinity (PP as CaCO3)	mg/L				<1.0	B474640	<1.0	1.0	B474640
Alkalinity (Total as CaCO3)	mg/L				27	B474640	27	1.0	B474640
Bicarbonate (HCO3)	mg/L				33	B474640	32	1.0	B474640
Carbonate (CO3)	mg/L				<1.0	B474640	<1.0	1.0	B474640
Hydroxide (OH)	mg/L				<1.0	B474640	<1.0	1.0	B474640
Sulphate (SO4)	mg/L				28	B472970	28	1.0	B473184
Physical Properties									
Turbidity	NTU				2.2	B472187	1.6	0.10	B472187

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		CSY130	CSY131	CSY132		CSY133		
Sampling Date		2024/08/07 08:20	2024/08/07 08:20	2024/08/07 08:10		2024/08/07 08:10		
COC Number		C#731898-03-01	C#731898-03-01	C#731898-03-01		C#731898-03-01		
	UNITS	**CL-5 SFC**	**CL-5 BTM**	**CL-6 SFC**	**QC Batch**	**CL-6 BTM**	**RDL**	**QC Batch**
Calculated Parameters								
Hardness (CaCO3)	mg/L	53	53	48	B472074	49	0.50	B472074
Total Hardness (CaCO3)	mg/L	49.4	47.7	42.4	B472085	43.1	0.50	B472085
Misc. Inorganics								
pH	pH	6.81	6.78	6.81	B475894	6.59	N/A	B474642
Total Organic Carbon (C)	mg/L	11	12	11	B475429	11	0.50	B475429
Total Suspended Solids	mg/L	<1.0	1.2	<1.0	B475001	<1.0	1.0	B475001
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	10	11	10	B475200	11	0.50	B475200
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	<1.0	B475893	<1.0	1.0	B474640
Alkalinity (Total as CaCO3)	mg/L	25	27	27	B475893	28	1.0	B474640
Bicarbonate (HCO3)	mg/L	31	33	33	B475893	34	1.0	B474640
Carbonate (CO3)	mg/L	<1.0	<1.0	<1.0	B475893	<1.0	1.0	B474640
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	B475893	<1.0	1.0	B474640
Sulphate (SO4)	mg/L	25	25	21	B472970	21	1.0	B472970
Physical Properties								
Turbidity	NTU	2.2	2.7	1.9	B472187	1.8	0.10	B472187

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C460811
Report Date: 2024/08/15

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RCP

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		CSY134			CSY134			CSY135		
Sampling Date		2024/08/07			2024/08/07			2024/08/07		
COC Number		C#731898-03-01			C#731898-03-01			C#731898-03-01		
	UNITS	SW-119	RDL	QC Batch	SW-119 Lab-Dup	RDL	QC Batch	SW-120	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	50	0.50	B472074				54	0.50	B472074
Total Hardness (CaCO3)	mg/L	47.0	0.50	B472085				48.9	0.50	B472085
Misc. Inorganics										
pH	pH	6.83	N/A	B475894				6.60	N/A	B474642
Total Organic Carbon (C)	mg/L	10	0.50	B475429				11	0.50	B475429
Total Suspended Solids	mg/L	<1.0	1.0	B475002	<1.0	1.0	B475002	<1.0	1.0	B475002
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B475200				11	0.50	B475079
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B475893				<1.0	1.0	B474640
Alkalinity (Total as CaCO3)	mg/L	26	1.0	B475893				26	1.0	B474640
Bicarbonate (HCO3)	mg/L	32	1.0	B475893				32	1.0	B474640
Carbonate (CO3)	mg/L	<1.0	1.0	B475893				<1.0	1.0	B474640
Hydroxide (OH)	mg/L	<1.0	1.0	B475893				<1.0	1.0	B474640
Sulphate (SO4)	mg/L	21	1.0	B472970				29	1.0	B472970
Physical Properties										
Turbidity	NTU	2.5	0.10	B472187				3.0	0.10	B472187

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C460811
Report Date: 2024/08/15

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RCP

RESULTS OF CHEMICAL ANALYSES OF SURFACE WATER

Bureau Veritas ID		CSY136			CSY136			CSY137		
Sampling Date		2024/08/07			2024/08/07			2024/08/07		
COC Number		C#731898-03-01			C#731898-03-01			C#731898-03-01		
	UNITS	SW-121	RDL	QC Batch	SW-121 Lab-Dup	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	79	0.50	B472074				<0.50	0.50	B472074
Total Hardness (CaCO3)	mg/L	71.3	0.50	B472085				<0.50	0.50	B472085
Misc. Inorganics										
pH	pH	6.72	N/A	B475894				5.07	N/A	B474642
Total Organic Carbon (C)	mg/L	11	0.50	B475429				<0.50	0.50	B475429
Total Suspended Solids	mg/L	<1.0	1.0	B475002				<1.0	1.0	B475002
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B475200				<0.50	0.50	B475079
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B475893				<1.0	1.0	B474640
Alkalinity (Total as CaCO3)	mg/L	22	1.0	B475893				<1.0	1.0	B474640
Bicarbonate (HCO3)	mg/L	27	1.0	B475893				<1.0	1.0	B474640
Carbonate (CO3)	mg/L	<1.0	1.0	B475893				<1.0	1.0	B474640
Hydroxide (OH)	mg/L	<1.0	1.0	B475893				<1.0	1.0	B474640
Sulphate (SO4)	mg/L	55	1.0	B472970	55	1.0	B472970	<1.0	1.0	B472970
Physical Properties										
Turbidity	NTU	4.7	0.10	B472187				<0.10	0.10	B472849

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	0.7°C
Package 2	1.0°C
Package 3	1.0°C
Package 4	1.3°C

Sample CSY126, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CSY137, Elements by ICPMS - Total: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B472187	Turbidity	2024/08/09			102	80 - 120	<0.10	NTU	4.7	20
B472848	Turbidity	2024/08/10			101	80 - 120	<0.10	NTU	2.2	20
B472849	Turbidity	2024/08/10			101	80 - 120	<0.10	NTU	2.2	20
B472970	Sulphate (SO4)	2024/08/10	102	80 - 120	104	80 - 120	<1.0	mg/L	0.57	20
B473167	Dissolved Aluminum (Al)	2024/08/10	97	80 - 120	100	80 - 120	<0.0030	mg/L	8.9	20
B473167	Dissolved Antimony (Sb)	2024/08/10	104	80 - 120	106	80 - 120	<0.00060	mg/L	NC	20
B473167	Dissolved Arsenic (As)	2024/08/10	98	80 - 120	101	80 - 120	<0.00020	mg/L	3.0	20
B473167	Dissolved Beryllium (Be)	2024/08/10	94	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B473167	Dissolved Chromium (Cr)	2024/08/10	92	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B473167	Dissolved Cobalt (Co)	2024/08/10	94	80 - 120	96	80 - 120	<0.00030	mg/L	NC	20
B473167	Dissolved Copper (Cu)	2024/08/10	92	80 - 120	94	80 - 120	<0.0010	mg/L	5.1	20
B473167	Dissolved Lead (Pb)	2024/08/10	93	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B473167	Dissolved Molybdenum (Mo)	2024/08/10	100	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B473167	Dissolved Nickel (Ni)	2024/08/10	91	80 - 120	93	80 - 120	<0.00050	mg/L	0.97	20
B473167	Dissolved Selenium (Se)	2024/08/10	97	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B473167	Dissolved Silver (Ag)	2024/08/10	95	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20
B473167	Dissolved Thallium (Tl)	2024/08/10	93	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B473167	Dissolved Tin (Sn)	2024/08/10	101	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20
B473167	Dissolved Titanium (Ti)	2024/08/10	90	80 - 120	92	80 - 120	<0.0010	mg/L	NC	20
B473167	Dissolved Uranium (U)	2024/08/10	95	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B473167	Dissolved Vanadium (V)	2024/08/10	95	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B473167	Dissolved Zinc (Zn)	2024/08/10	NC	80 - 120	94	80 - 120	<0.0030	mg/L	3.9	20
B473168	Dissolved Aluminum (Al)	2024/08/10	99	80 - 120	102	80 - 120	<0.0030	mg/L	12	20
B473168	Dissolved Antimony (Sb)	2024/08/10	103	80 - 120	107	80 - 120	<0.00060	mg/L	NC	20
B473168	Dissolved Arsenic (As)	2024/08/10	97	80 - 120	100	80 - 120	<0.00020	mg/L	7.5	20
B473168	Dissolved Beryllium (Be)	2024/08/10	95	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B473168	Dissolved Chromium (Cr)	2024/08/10	91	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B473168	Dissolved Cobalt (Co)	2024/08/10	93	80 - 120	95	80 - 120	<0.00030	mg/L	NC	20
B473168	Dissolved Copper (Cu)	2024/08/10	91	80 - 120	93	80 - 120	<0.0010	mg/L	1.4	20
B473168	Dissolved Lead (Pb)	2024/08/10	93	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B473168	Dissolved Molybdenum (Mo)	2024/08/10	98	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B473168	Dissolved Nickel (Ni)	2024/08/10	92	80 - 120	94	80 - 120	<0.00050	mg/L	7.6	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B473168	Dissolved Selenium (Se)	2024/08/10	97	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B473168	Dissolved Silver (Ag)	2024/08/10	95	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B473168	Dissolved Thallium (Tl)	2024/08/10	93	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B473168	Dissolved Tin (Sn)	2024/08/10	102	80 - 120	107	80 - 120	<0.0010	mg/L	NC	20
B473168	Dissolved Titanium (Ti)	2024/08/10	93	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B473168	Dissolved Uranium (U)	2024/08/10	95	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20
B473168	Dissolved Vanadium (V)	2024/08/10	93	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B473168	Dissolved Zinc (Zn)	2024/08/10	NC	80 - 120	92	80 - 120	<0.0030	mg/L	1.0	20
B473182	Sulphate (SO4)	2024/08/10	NC	80 - 120	104	80 - 120	<1.0	mg/L		
B473184	Sulphate (SO4)	2024/08/10	100	80 - 120	103	80 - 120	<1.0	mg/L	1.9	20
B473231	Sulphate (SO4)	2024/08/12	NC	80 - 120	104	80 - 120	<1.0	mg/L	0.61	20
B473236	Dissolved Barium (Ba)	2024/08/10	97	80 - 120	92	80 - 120	<0.010	mg/L	14	20
B473236	Dissolved Boron (B)	2024/08/10	100	80 - 120	95	80 - 120	<0.020	mg/L	NC	20
B473236	Dissolved Calcium (Ca)	2024/08/10	103	80 - 120	95	80 - 120	<0.30	mg/L	0.42	20
B473236	Dissolved Iron (Fe)	2024/08/10	101	80 - 120	96	80 - 120	<0.060	mg/L	4.4	20
B473236	Dissolved Lithium (Li)	2024/08/10	98	80 - 120	91	80 - 120	<0.020	mg/L	NC	20
B473236	Dissolved Magnesium (Mg)	2024/08/10	101	80 - 120	90	80 - 120	<0.20	mg/L	0.31	20
B473236	Dissolved Manganese (Mn)	2024/08/10	100	80 - 120	92	80 - 120	<0.0040	mg/L	0	20
B473236	Dissolved Phosphorus (P)	2024/08/10	108	80 - 120	100	80 - 120	<0.10	mg/L	NC	20
B473236	Dissolved Potassium (K)	2024/08/10	104	80 - 120	97	80 - 120	<0.30	mg/L	1.6	20
B473236	Dissolved Silicon (Si)	2024/08/10	102	80 - 120	98	80 - 120	<0.50	mg/L	3.9	20
B473236	Dissolved Sodium (Na)	2024/08/10	102	80 - 120	95	80 - 120	<0.50	mg/L	0.40	20
B473236	Dissolved Strontium (Sr)	2024/08/10	96	80 - 120	91	80 - 120	<0.020	mg/L	0	20
B473236	Dissolved Sulphur (S)	2024/08/10	105	80 - 120	97	80 - 120	<0.20	mg/L	1.5	20
B473237	Dissolved Barium (Ba)	2024/08/10	96	80 - 120	92	80 - 120	<0.010	mg/L	14	20
B473237	Dissolved Boron (B)	2024/08/10	100	80 - 120	96	80 - 120	<0.020	mg/L	NC	20
B473237	Dissolved Calcium (Ca)	2024/08/10	101	80 - 120	95	80 - 120	<0.30	mg/L	1.1	20
B473237	Dissolved Iron (Fe)	2024/08/10	101	80 - 120	96	80 - 120	<0.060	mg/L	0.74	20
B473237	Dissolved Lithium (Li)	2024/08/10	96	80 - 120	91	80 - 120	<0.020	mg/L	NC	20
B473237	Dissolved Magnesium (Mg)	2024/08/10	99	80 - 120	91	80 - 120	<0.20	mg/L	0.73	20
B473237	Dissolved Manganese (Mn)	2024/08/10	99	80 - 120	93	80 - 120	<0.0040	mg/L	1.7	20
B473237	Dissolved Phosphorus (P)	2024/08/10	108	80 - 120	100	80 - 120	<0.10	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B473237	Dissolved Potassium (K)	2024/08/10	102	80 - 120	97	80 - 120	<0.30	mg/L	0.96	20
B473237	Dissolved Silicon (Si)	2024/08/10	102	80 - 120	98	80 - 120	<0.50	mg/L	3.9	20
B473237	Dissolved Sodium (Na)	2024/08/10	100	80 - 120	95	80 - 120	<0.50	mg/L	1.6	20
B473237	Dissolved Strontium (Sr)	2024/08/10	94	80 - 120	91	80 - 120	<0.020	mg/L	0.59	20
B473237	Dissolved Sulphur (S)	2024/08/10	106	80 - 120	98	80 - 120	<0.20	mg/L	0.22	20
B473242	Dissolved Barium (Ba)	2024/08/10	96	80 - 120	92	80 - 120	<0.010	mg/L	2.0	20
B473242	Dissolved Boron (B)	2024/08/10	100	80 - 120	96	80 - 120	<0.020	mg/L	NC	20
B473242	Dissolved Calcium (Ca)	2024/08/10	98	80 - 120	95	80 - 120	<0.30	mg/L	1.4	20
B473242	Dissolved Iron (Fe)	2024/08/10	102	80 - 120	96	80 - 120	<0.060	mg/L	NC	20
B473242	Dissolved Lithium (Li)	2024/08/10	96	80 - 120	91	80 - 120	<0.020	mg/L	NC	20
B473242	Dissolved Magnesium (Mg)	2024/08/10	98	80 - 120	90	80 - 120	<0.20	mg/L	0.72	20
B473242	Dissolved Manganese (Mn)	2024/08/10	100	80 - 120	93	80 - 120	<0.0040	mg/L	NC	20
B473242	Dissolved Phosphorus (P)	2024/08/10	109	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B473242	Dissolved Potassium (K)	2024/08/10	104	80 - 120	97	80 - 120	<0.30	mg/L	2.0	20
B473242	Dissolved Silicon (Si)	2024/08/10	102	80 - 120	97	80 - 120	<0.50	mg/L	4.2	20
B473242	Dissolved Sodium (Na)	2024/08/10	100	80 - 120	95	80 - 120	<0.50	mg/L	1.3	20
B473242	Dissolved Strontium (Sr)	2024/08/10	94	80 - 120	91	80 - 120	<0.020	mg/L	2.2	20
B473242	Dissolved Sulphur (S)	2024/08/10	105	80 - 120	97	80 - 120	<0.20	mg/L	2.1	20
B474298	Dissolved Barium (Ba)	2024/08/12	93	80 - 120	95	80 - 120	<0.010	mg/L		
B474298	Dissolved Boron (B)	2024/08/12	96	80 - 120	95	80 - 120	<0.020	mg/L		
B474298	Dissolved Calcium (Ca)	2024/08/12	94	80 - 120	98	80 - 120	<0.30	mg/L	1.3	20
B474298	Dissolved Iron (Fe)	2024/08/12	103	80 - 120	99	80 - 120	<0.060	mg/L	2.6	20
B474298	Dissolved Lithium (Li)	2024/08/12	94	80 - 120	99	80 - 120	<0.020	mg/L		
B474298	Dissolved Magnesium (Mg)	2024/08/12	96	80 - 120	97	80 - 120	<0.20	mg/L	1.5	20
B474298	Dissolved Manganese (Mn)	2024/08/12	99	80 - 120	96	80 - 120	<0.0040	mg/L	2.1	20
B474298	Dissolved Phosphorus (P)	2024/08/12	106	80 - 120	102	80 - 120	<0.10	mg/L		
B474298	Dissolved Potassium (K)	2024/08/12	97	80 - 120	98	80 - 120	<0.30	mg/L	2.0	20
B474298	Dissolved Silicon (Si)	2024/08/12	100	80 - 120	99	80 - 120	<0.50	mg/L		
B474298	Dissolved Sodium (Na)	2024/08/12	86	80 - 120	96	80 - 120	<0.50	mg/L	1.4	20
B474298	Dissolved Strontium (Sr)	2024/08/12	89	80 - 120	93	80 - 120	<0.020	mg/L		
B474298	Dissolved Sulphur (S)	2024/08/12	101	80 - 120	97	80 - 120	<0.20	mg/L		
B474640	Alkalinity (PP as CaCO3)	2024/08/13					<1.0	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B474640	Alkalinity (Total as CaCO3)	2024/08/13			98	80 - 120	<1.0	mg/L	1.7	20
B474640	Bicarbonate (HCO3)	2024/08/13					<1.0	mg/L	1.7	20
B474640	Carbonate (CO3)	2024/08/13					<1.0	mg/L	NC	20
B474640	Hydroxide (OH)	2024/08/13					<1.0	mg/L	NC	20
B474642	pH	2024/08/13			100	97 - 103			0.98	N/A
B475000	Total Suspended Solids	2024/08/13	95	80 - 120	96	80 - 120	<1.0	mg/L	0.44	20
B475001	Total Suspended Solids	2024/08/13	101	80 - 120	100	80 - 120	<1.0	mg/L	18	20
B475002	Total Suspended Solids	2024/08/13	94	80 - 120	95	80 - 120	<1.0	mg/L	4.9	20
B475079	Dissolved Organic Carbon (C)	2024/08/13	84	80 - 120	102	80 - 120	<0.50	mg/L	3.9	20
B475200	Dissolved Organic Carbon (C)	2024/08/13	NC	80 - 120	102	80 - 120	<0.50	mg/L	11	20
B475423	Total Aluminum (Al)	2024/08/13	104	80 - 120	113	80 - 120	<0.0030	mg/L	3.0	20
B475423	Total Antimony (Sb)	2024/08/13	104	80 - 120	93	80 - 120	<0.00060	mg/L	NC	20
B475423	Total Arsenic (As)	2024/08/13	104	80 - 120	92	80 - 120	<0.00020	mg/L	3.1	20
B475423	Total Beryllium (Be)	2024/08/13	100	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B475423	Total Chromium (Cr)	2024/08/13	101	80 - 120	100	80 - 120	<0.0010	mg/L	2.6	20
B475423	Total Cobalt (Co)	2024/08/13	102	80 - 120	102	80 - 120	<0.00030	mg/L	0.48	20
B475423	Total Copper (Cu)	2024/08/13	99	80 - 120	99	80 - 120	<0.0010	mg/L	12	20
B475423	Total Lead (Pb)	2024/08/13	99	80 - 120	98	80 - 120	<0.00020	mg/L	13	20
B475423	Total Molybdenum (Mo)	2024/08/13	105	80 - 120	98	80 - 120	<0.00020	mg/L	15	20
B475423	Total Nickel (Ni)	2024/08/13	100	80 - 120	101	80 - 120	<0.00050	mg/L	1.0	20
B475423	Total Selenium (Se)	2024/08/13	104	80 - 120	86	80 - 120	<0.00020	mg/L	NC	20
B475423	Total Silver (Ag)	2024/08/13	99	80 - 120	96	80 - 120	<0.00010	mg/L	NC	20
B475423	Total Thallium (Tl)	2024/08/13	102	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B475423	Total Tin (Sn)	2024/08/13	104	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B475423	Total Titanium (Ti)	2024/08/13	102	80 - 120	99	80 - 120	<0.0010	mg/L	2.4	20
B475423	Total Uranium (U)	2024/08/13	105	80 - 120	101	80 - 120	<0.00010	mg/L	2.7	20
B475423	Total Vanadium (V)	2024/08/13	105	80 - 120	101	80 - 120	<0.0010	mg/L	2.1	20
B475423	Total Zinc (Zn)	2024/08/13	102	80 - 120	88	80 - 120	<0.0030	mg/L	78 (1)	20
B475425	Total Barium (Ba)	2024/08/13	109	80 - 120	102	80 - 120	<0.010	mg/L	3.4	20
B475425	Total Boron (B)	2024/08/13	111	80 - 120	103	80 - 120	<0.020	mg/L	NC	20
B475425	Total Calcium (Ca)	2024/08/13	105	80 - 120	97	80 - 120	<0.30	mg/L	3.0	20
B475425	Total Iron (Fe)	2024/08/13	117	80 - 120	98	80 - 120	<0.060	mg/L	3.1	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B475425	Total Lithium (Li)	2024/08/13	103	80 - 120	96	80 - 120	<0.020	mg/L	NC	20
B475425	Total Magnesium (Mg)	2024/08/13	110	80 - 120	103	80 - 120	<0.20	mg/L	3.1	20
B475425	Total Manganese (Mn)	2024/08/13	112	80 - 120	108	80 - 120	<0.0040	mg/L	3.0	20
B475425	Total Phosphorus (P)	2024/08/13	116	80 - 120	110	80 - 120	<0.10	mg/L	0.80	20
B475425	Total Potassium (K)	2024/08/13	108	80 - 120	101	80 - 120	<0.30	mg/L	3.1	20
B475425	Total Silicon (Si)	2024/08/13	113	80 - 120	107	80 - 120	<0.50	mg/L	3.0	20
B475425	Total Sodium (Na)	2024/08/13	105	80 - 120	98	80 - 120	<0.50	mg/L	2.8	20
B475425	Total Strontium (Sr)	2024/08/13	105	80 - 120	100	80 - 120	<0.020	mg/L	6.5	20
B475425	Total Sulphur (S)	2024/08/13	104	80 - 120	104	80 - 120	<0.20	mg/L	1.8	20
B475429	Total Organic Carbon (C)	2024/08/13	NC	80 - 120	98	80 - 120	<0.50	mg/L	7.3	20
B475734	Dissolved Aluminum (Al)	2024/08/13	100	80 - 120	101	80 - 120	<0.0030	mg/L	NC	20
B475821	Total Organic Carbon (C)	2024/08/13	NC	80 - 120	96	80 - 120	<0.50	mg/L	4.0	20
B475893	Alkalinity (PP as CaCO3)	2024/08/14					<1.0	mg/L	NC	20
B475893	Alkalinity (Total as CaCO3)	2024/08/14			98	80 - 120	<1.0	mg/L	1.2	20
B475893	Bicarbonate (HCO3)	2024/08/14					<1.0	mg/L	1.2	20
B475893	Carbonate (CO3)	2024/08/14					<1.0	mg/L	NC	20
B475893	Hydroxide (OH)	2024/08/14					<1.0	mg/L	NC	20
B475894	pH	2024/08/14			100	97 - 103			0.54	N/A
B476835	Total Aluminum (Al)	2024/08/14	108	80 - 120	102	80 - 120	<0.0030	mg/L	13	20
B476835	Total Antimony (Sb)	2024/08/14	104	80 - 120	102	80 - 120	<0.00060	mg/L	NC	20
B476835	Total Arsenic (As)	2024/08/14	105	80 - 120	106	80 - 120	<0.00020	mg/L	11	20
B476835	Total Beryllium (Be)	2024/08/14	105	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B476835	Total Chromium (Cr)	2024/08/14	103	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
B476835	Total Cobalt (Co)	2024/08/14	106	80 - 120	106	80 - 120	<0.00030	mg/L	NC	20
B476835	Total Copper (Cu)	2024/08/14	105	80 - 120	106	80 - 120	<0.0010	mg/L	11	20
B476835	Total Lead (Pb)	2024/08/14	103	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B476835	Total Molybdenum (Mo)	2024/08/14	105	80 - 120	101	80 - 120	<0.00020	mg/L	5.6	20
B476835	Total Nickel (Ni)	2024/08/14	105	80 - 120	106	80 - 120	<0.00050	mg/L	NC	20
B476835	Total Selenium (Se)	2024/08/14	107	80 - 120	105	80 - 120	<0.00020	mg/L	3.4	20
B476835	Total Silver (Ag)	2024/08/14	104	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20
B476835	Total Thallium (Tl)	2024/08/14	106	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B476835	Total Tin (Sn)	2024/08/14	102	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B476835	Total Titanium (Ti)	2024/08/14	103	80 - 120	103	80 - 120	<0.0010	mg/L	19	20
B476835	Total Uranium (U)	2024/08/14	110	80 - 120	105	80 - 120	<0.00010	mg/L	NC	20
B476835	Total Vanadium (V)	2024/08/14	105	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B476835	Total Zinc (Zn)	2024/08/14	105	80 - 120	106	80 - 120	<0.0030	mg/L	11	20
B476839	Total Barium (Ba)	2024/08/14	104	80 - 120	103	80 - 120	<0.010	mg/L	NC	20
B476839	Total Boron (B)	2024/08/14	102	80 - 120	102	80 - 120	<0.020	mg/L	NC	20
B476839	Total Calcium (Ca)	2024/08/14	102	80 - 120	103	80 - 120	<0.30	mg/L	2.7	20
B476839	Total Iron (Fe)	2024/08/14	116	80 - 120	115	80 - 120	<0.060	mg/L	2.9	20
B476839	Total Lithium (Li)	2024/08/14	104	80 - 120	104	80 - 120	<0.020	mg/L	NC	20
B476839	Total Magnesium (Mg)	2024/08/14	104	80 - 120	104	80 - 120	<0.20	mg/L	2.3	20
B476839	Total Manganese (Mn)	2024/08/14	116	80 - 120	116	80 - 120	<0.0040	mg/L	3.6	20
B476839	Total Phosphorus (P)	2024/08/14	110	80 - 120	110	80 - 120	<0.10	mg/L	NC	20
B476839	Total Potassium (K)	2024/08/14	104	80 - 120	104	80 - 120	<0.30	mg/L	2.9	20
B476839	Total Silicon (Si)	2024/08/14	106	80 - 120	106	80 - 120	<0.50	mg/L	3.0	20
B476839	Total Sodium (Na)	2024/08/14	105	80 - 120	106	80 - 120	<0.50	mg/L	2.8	20
B476839	Total Strontium (Sr)	2024/08/14	100	80 - 120	101	80 - 120	<0.020	mg/L	1.6	20
B476839	Total Sulphur (S)	2024/08/14	93	80 - 120	103	80 - 120	<0.20	mg/L	2.7	20
B477803	Total Aluminum (Al)	2024/08/14	111	80 - 120	107	80 - 120	<0.0030	mg/L	2.4	20
B477803	Total Antimony (Sb)	2024/08/14	95	80 - 120	85	80 - 120	<0.00060	mg/L	NC	20
B477803	Total Arsenic (As)	2024/08/14	93	80 - 120	91	80 - 120	<0.00020	mg/L	0.12	20
B477803	Total Beryllium (Be)	2024/08/14	103	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B477803	Total Chromium (Cr)	2024/08/14	99	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B477803	Total Cobalt (Co)	2024/08/14	100	80 - 120	99	80 - 120	<0.00030	mg/L	NC	20
B477803	Total Copper (Cu)	2024/08/14	98	80 - 120	97	80 - 120	<0.0010	mg/L	2.2	20
B477803	Total Lead (Pb)	2024/08/14	94	80 - 120	93	80 - 120	<0.00020	mg/L	NC	20
B477803	Total Molybdenum (Mo)	2024/08/14	100	80 - 120	89	80 - 120	<0.00020	mg/L	NC	20
B477803	Total Nickel (Ni)	2024/08/14	98	80 - 120	97	80 - 120	<0.00050	mg/L	11	20
B477803	Total Selenium (Se)	2024/08/14	89	80 - 120	88	80 - 120	<0.00020	mg/L	NC	20
B477803	Total Silver (Ag)	2024/08/14	98	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B477803	Total Thallium (Tl)	2024/08/14	97	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B477803	Total Tin (Sn)	2024/08/14	99	80 - 120	90	80 - 120	<0.0010	mg/L	NC	20
B477803	Total Titanium (Ti)	2024/08/14	102	80 - 120	89	80 - 120	<0.0010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B477803	Total Uranium (U)	2024/08/14	103	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B477803	Total Vanadium (V)	2024/08/14	100	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B477803	Total Zinc (Zn)	2024/08/14	86	80 - 120	87	80 - 120	<0.0030	mg/L	3.3	20
B477811	Total Barium (Ba)	2024/08/14	102	80 - 120	97	80 - 120	<0.010	mg/L	NC	20
B477811	Total Boron (B)	2024/08/14	97	80 - 120	96	80 - 120	<0.020	mg/L	NC	20
B477811	Total Calcium (Ca)	2024/08/14	97	80 - 120	93	80 - 120	<0.30	mg/L	0.43	20
B477811	Total Iron (Fe)	2024/08/14	NC	80 - 120	97	80 - 120	<0.060	mg/L	0.13	20
B477811	Total Lithium (Li)	2024/08/14	93	80 - 120	91	80 - 120	<0.020	mg/L	NC	20
B477811	Total Magnesium (Mg)	2024/08/14	98	80 - 120	95	80 - 120	<0.20	mg/L	0.54	20
B477811	Total Manganese (Mn)	2024/08/14	96	80 - 120	95	80 - 120	<0.0040	mg/L	0.72	20
B477811	Total Phosphorus (P)	2024/08/14	102	80 - 120	100	80 - 120	<0.10	mg/L	NC	20
B477811	Total Potassium (K)	2024/08/14	103	80 - 120	95	80 - 120	<0.30	mg/L	0.85	20
B477811	Total Silicon (Si)	2024/08/14	315 (1)	80 - 120	97	80 - 120	<0.50	mg/L	0.43	20
B477811	Total Sodium (Na)	2024/08/14	NC	80 - 120	92	80 - 120	<0.50	mg/L	0.13	20
B477811	Total Strontium (Sr)	2024/08/14	92	80 - 120	94	80 - 120	<0.020	mg/L	0.12	20
B477811	Total Sulphur (S)	2024/08/14	100	80 - 120	84	80 - 120	<0.20	mg/L	0.099	20
B477905	Total Aluminum (Al)	2024/08/15	109	80 - 120	103	80 - 120	<0.0030	mg/L	1.6	20
B477905	Total Antimony (Sb)	2024/08/15	92	80 - 120	90	80 - 120	<0.00060	mg/L	1.4	20
B477905	Total Arsenic (As)	2024/08/15	87	80 - 120	87	80 - 120	<0.00020	mg/L	2.5	20
B477905	Total Beryllium (Be)	2024/08/15	97	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B477905	Total Chromium (Cr)	2024/08/15	95	80 - 120	96	80 - 120	<0.0010	mg/L	7.3	20
B477905	Total Cobalt (Co)	2024/08/15	96	80 - 120	97	80 - 120	<0.00030	mg/L	2.6	20
B477905	Total Copper (Cu)	2024/08/15	94	80 - 120	95	80 - 120	<0.0010	mg/L	1.3	20
B477905	Total Lead (Pb)	2024/08/15	94	80 - 120	93	80 - 120	<0.00020	mg/L	1.2	20
B477905	Total Molybdenum (Mo)	2024/08/15	100	80 - 120	95	80 - 120	<0.00020	mg/L	3.9	20
B477905	Total Nickel (Ni)	2024/08/15	96	80 - 120	96	80 - 120	<0.00050	mg/L	0.36	20
B477905	Total Selenium (Se)	2024/08/15	84	80 - 120	82	80 - 120	<0.00020	mg/L	3.1	20
B477905	Total Silver (Ag)	2024/08/15	97	80 - 120	94	80 - 120	<0.00010	mg/L	5.8	20
B477905	Total Thallium (Tl)	2024/08/15	98	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B477905	Total Tin (Sn)	2024/08/15	95	80 - 120	92	80 - 120	<0.0010	mg/L	2.8	20
B477905	Total Titanium (Ti)	2024/08/15	95	80 - 120	96	80 - 120	<0.0010	mg/L	4.9	20
B477905	Total Uranium (U)	2024/08/15	100	80 - 120	100	80 - 120	<0.00010	mg/L	4.9	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B477905	Total Vanadium (V)	2024/08/15	97	80 - 120	97	80 - 120	<0.0010	mg/L	2.4	20
B477905	Total Zinc (Zn)	2024/08/15	82	80 - 120	83	80 - 120	<0.0030	mg/L	1.4	20
B477911	Total Barium (Ba)	2024/08/15	91	80 - 120	88	80 - 120	<0.010	mg/L	3.0	20
B477911	Total Boron (B)	2024/08/15	95	80 - 120	91	80 - 120	<0.020	mg/L	2.1	20
B477911	Total Calcium (Ca)	2024/08/15	NC	80 - 120	88	80 - 120	<0.30	mg/L	3.6	20
B477911	Total Iron (Fe)	2024/08/15	97	80 - 120	92	80 - 120	<0.060	mg/L	2.0	20
B477911	Total Lithium (Li)	2024/08/15	94	80 - 120	87	80 - 120	<0.020	mg/L	3.2	20
B477911	Total Magnesium (Mg)	2024/08/15	NC	80 - 120	85	80 - 120	<0.20	mg/L	3.4	20
B477911	Total Manganese (Mn)	2024/08/15	99	80 - 120	93	80 - 120	<0.0040	mg/L	2.2	20
B477911	Total Phosphorus (P)	2024/08/15	98	80 - 120	93	80 - 120	<0.10	mg/L	0.35	20
B477911	Total Potassium (K)	2024/08/15	104	80 - 120	90	80 - 120	<0.30	mg/L	4.4	20
B477911	Total Silicon (Si)	2024/08/15	96	80 - 120	91	80 - 120	<0.50	mg/L	1.7	20
B477911	Total Sodium (Na)	2024/08/15	NC	80 - 120	91	80 - 120	<0.50	mg/L	8.2	20
B477911	Total Strontium (Sr)	2024/08/15	96	80 - 120	86	80 - 120	<0.020	mg/L	3.3	20
B477911	Total Sulphur (S)	2024/08/15	NC	80 - 120	92	80 - 120	<0.20	mg/L	0.70	20
B479283	Total Lead (Pb)	2024/08/15	96	80 - 120	98	80 - 120	<0.00020	mg/L	2.5	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

C460811
2024/08/08 12:00

Page 1 of 3

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins; Rachel Dyck	P.O. #			731898
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#731898-01-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com; rdyck@kgsgroup.com	Sampled By	RCP / AW		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity; DOC ASAP to meet hold times

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number (call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) - Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		SC-1	24/08/07	10:30	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		SB-1		9:30				X	X	X	X	X	X	X	X	X	X		
3		SB-2		9:25				X	X	X	X	X	X	X	X	X	X		
4		CB-1		9:35				X	X	X	X	X	X	X	X	X	X		
5		CB-2		9:40				X	X	X	X	X	X	X	X	X	X		
6		EB-1		9:45				X	X	X	X	X	X	X	X	X	X		
7		EB-2		9:50				X	X	X	X	X	X	X	X	X	X		
8		NB-1		10:00				X	X	X	X	X	X	X	X	X	X		
9		NB-2		9:55				X	X	X	X	X	X	X	X	X	X		
10		CLD		10:05				X	X	X	X	X	X	X	X	X	X		

MCAL-2024-08-728

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Perella / [signature]	24/08/08	12:00	BH Brooklyn Hiebert	24/08/08	1200			ACTR	Yes / No
			Amanda Huegen	2024/08/09	09:00				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

See ACTR

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

C460811
2024/08/08 12:00

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins ; Rachel Dyck	P.O. #			731898
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#731898-02-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com ; rdyck@kgsgroup.com	Sampled By	RCP/AW		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity ; DOC ASAP to meet hold times

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10ºC) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-3 SFC	24/08/07	8:40	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		CL-3 BTM		8:40				X	X	X	X	X	X	X	X	X	X		
3		CL-7 SFC		8:45				X	X	X	X	X	X	X	X	X	X		
4		CL-7 BTM		8:45				X	X	X	X	X	X	X	X	X	X		
5		CL-8 SFC		8:35				X	X	X	X	X	X	X	X	X	X		
6		CL-8 BTM		8:35				X	X	X	X	X	X	X	X	X	X		
7		CL-2 SFC	[illegible]	8:55				X	X	X	X	X	X	X	X	X	X		
8		CL-2 BTM		8:55				X	X	X	X	X	X	X	X	X	X		
9		CL-4 SFC		8:25				X	X	X	X	X	X	X	X	X	X		
10		CL-4 BTM		8:25				X	X	X	X	X	X	X	X	X	X		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (ºC) on Receipt	Custody Seal Intact on Cooler?
Rachel Bell / Rachel Pescella	24/08/08	12:00	BH Brookwin Hebert	24/08/08	1200				
			Gy Amanda Hagen	2024/08/09	09:00			4CTR	Yes / No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

See ACTR

White: Bureau Veritas Yellow: Client

C460811
2024/08/08 12:00

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:
Company Name: #7500 KGS Group
Contact Name: Accounts Payable
Address: 865 Waverly St., 3rd Floor, Winnipeg MB R3T 5P4
Phone: (204) 896-1209 Fax:
Email: payables@kgsgroup.com

Report Information
Company Name:
Contact Name: Ed Collins ; Rachel Dyck
Address:
Phone: Fax:
Email: Ecollins@kgsgroup.com ; rdyck@kgsgroup.com

Project Information
Quotation #: C31455
P.O. #:
Project #: 21-1357-005
Project Name:
Site #: OAM - SHERRIDON MINE SITE
Sampled By: RCP/AW

Laboratory Use Only
Bureau Veritas Job #:
Bottle Order #: 731898
Chain Of Custody Record: C#731898-03-01
Project Manager: Janelle Kochan

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required
Please provide advance notice for rush projects
Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-5 SFC	8:20	24/08/07	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		CL-5 BTM	8:20	↓	↓	↓	↓	X	X	X	X	X	X	X	X	X	X	↓	
3		CL-6 SFC	8:10					X	X	X	X	X	X	X	X	X	X		
4		CL-6 BTM	8:10					X	X	X	X	X	X	X	X	X	X		
5		SW-119	24/08/07	AM				X	X	X	X	X	X	X	X	X	X		
6		SW-120	↓	AM				X	X	X	X	X	X	X	X	X	X		
7		SW-121	↓	AM	↓	↓	↓	X	X	X	X	X	X	X	X	X	X		
8		Trip Blank	—	—	blank			X	X	X	X	X	X	X	X	X	X	↓	
9																			
10																			

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Rachel Dyck / Rachel Parrella	24/08/08	12:00	BIA Brooklyn Hiebert	24/08/08	1200	
			Cg Amanda Haugen	2024/08/09	09:00	

Lab Use Only
Time Sensitive: ☐
Temperature (°C) on Receipt: ACTR
Custody Seal Intact on Cooler? ☐ Yes ☐ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

See AC2P

White: Bureau Veritas Yellow: Client

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: C#733060-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/08/27
Report #: R3547841
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C464896
Received: 2024/08/21, 11:40

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	28	N/A	2024/08/25	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	28	N/A	2024/08/26		Auto Calc
Cadmium - low level CCME (Total) (1)	2	N/A	2024/08/26		Auto Calc
Cadmium - low level CCME (Total) (1)	26	N/A	2024/08/27		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	28	N/A	2024/08/23	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	27	N/A	2024/08/26	AB SOP-00087	MMCW 119 1996 m
Carbon (DOC) -Lab Filtered (1, 2)	1	N/A	2024/08/27	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	6	N/A	2024/08/25		Auto Calc
Hardness (1)	22	N/A	2024/08/26		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	18	N/A	2024/08/26	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	10	N/A	2024/08/27	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	7	N/A	2024/08/23	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 4)	21	N/A	2024/08/25	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	2	2024/08/24	2024/08/26	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	22	2024/08/26	2024/08/26	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	4	2024/08/26	2024/08/27	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	28	N/A	2024/08/25	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	2	2024/08/24	2024/08/25	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	26	2024/08/26	2024/08/26	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	28	N/A	2024/08/25	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	28	N/A	2024/08/26	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	27	2024/08/26	2024/08/26	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	1	2024/08/27	2024/08/27	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	27	N/A	2024/08/23	CAL SOP-00081	SM 24 2130 B m
Turbidity (1)	1	N/A	2024/08/27	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: C#733060-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/08/27
Report #: R3547841
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C464896
Received: 2024/08/21, 11:40

Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(7) TOC present in the sample should be considered as non-purgeable TOC.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: C#733060-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/08/27
Report #: R3547841
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C464896
Received: 2024/08/21, 11:40

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV198	CTV199		CTV200		CTV201		
Sampling Date		2024/08/20 10:35	2024/08/20 09:25		2024/08/20 09:20		2024/08/20 09:30		
COC Number		C#733060-01-01	C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	**SC-1**	**SB-1**	**QC Batch**	**SB-2**	**QC Batch**	**CB-1**	**RDL**	**QC Batch**
Elements									
Dissolved Cadmium (Cd)	ug/L	0.15	0.24	B487744	0.23	B487744	0.24	0.020	B487744
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.022	0.022	B491169	0.020	B491169	0.022	0.0030	B491169
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B491169	<0.00060	B491169	<0.00060	0.00060	B491169
Dissolved Arsenic (As)	mg/L	0.00055	0.00032	B491169	0.00037	B491169	0.00036	0.00020	B491169
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	B491187	0.010	B491186	0.011	0.010	B491184
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B491169	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Boron (B)	mg/L	<0.020	<0.020	B491187	<0.020	B491186	<0.020	0.020	B491184
Dissolved Calcium (Ca)	mg/L	9.4	24	B491187	23	B491186	25	0.30	B491184
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B491169	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B491169	<0.00030	B491169	<0.00030	0.00030	B491169
Dissolved Copper (Cu)	mg/L	0.011	0.012	B491169	0.012	B491169	0.012	0.0010	B491169
Dissolved Iron (Fe)	mg/L	0.24	1.9	B491187	2.0	B491186	2.0	0.060	B491184
Dissolved Lead (Pb)	mg/L	<0.00020	0.00026	B491169	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B491187	<0.020	B491186	<0.020	0.020	B491184
Dissolved Magnesium (Mg)	mg/L	3.0	4.9	B491187	4.7	B491186	5.0	0.20	B491184
Dissolved Manganese (Mn)	mg/L	0.014	0.0060	B491187	0.0095	B491186	0.0057	0.0040	B491184
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B491169	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00083	B491169	0.00071	B491169	0.00081	0.00050	B491169
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B491187	<0.10	B491186	<0.10	0.10	B491184
Dissolved Potassium (K)	mg/L	1.5	2.6	B491187	2.5	B491186	2.8	0.30	B491184
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B491169	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Silicon (Si)	mg/L	1.2	0.82	B491187	0.82	B491186	0.77	0.50	B491184
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B491169	<0.00010	B491169	<0.00010	0.00010	B491169
Dissolved Sodium (Na)	mg/L	4.2	2.5	B491187	2.4	B491186	2.5	0.50	B491184
Dissolved Strontium (Sr)	mg/L	0.026	0.038	B491187	0.036	B491186	0.039	0.020	B491184
Dissolved Sulphur (S)	mg/L	1.5	18	B491187	17	B491186	18	0.20	B491184
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B491169	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B491169	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B491169	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B491169	<0.00010	B491169	<0.00010	0.00010	B491169

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV198	CTV199		CTV200		CTV201		
Sampling Date		2024/08/20 10:35	2024/08/20 09:25		2024/08/20 09:20		2024/08/20 09:30		
COC Number		C#733060-01-01	C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	**SC-1**	**SB-1**	**QC Batch**	**SB-2**	**QC Batch**	**CB-1**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B491169	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Zinc (Zn)	mg/L	0.069	0.070	B491169	0.069	B491169	0.072	0.0030	B491169
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV202		CTV203		CTV204		
Sampling Date		2024/08/20 09:35		2024/08/20 09:40		2024/08/20 09:45		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	CB-2	QC Batch	EB-1	QC Batch	EB-2	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.24	B487744	0.32	B487744	0.33	0.020	B487744
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.022	B491169	0.022	B491170	0.022	0.0030	B491169
Dissolved Antimony (Sb)	mg/L	<0.00060	B491169	<0.00060	B491170	<0.00060	0.00060	B491169
Dissolved Arsenic (As)	mg/L	0.00034	B491169	0.00031	B491170	0.00035	0.00020	B491169
Dissolved Barium (Ba)	mg/L	0.011	B491187	0.011	B490477	0.013	0.010	B491186
Dissolved Beryllium (Be)	mg/L	<0.0010	B491169	<0.0010	B491170	<0.0010	0.0010	B491169
Dissolved Boron (B)	mg/L	<0.020	B491187	<0.020	B490477	<0.020	0.020	B491186
Dissolved Calcium (Ca)	mg/L	25	B491187	32	B490477	36	0.30	B491186
Dissolved Chromium (Cr)	mg/L	<0.0010	B491169	<0.0010	B491170	<0.0010	0.0010	B491169
Dissolved Cobalt (Co)	mg/L	<0.00030	B491169	<0.00030	B491170	<0.00030	0.00030	B491169
Dissolved Copper (Cu)	mg/L	0.012	B491169	0.012	B491170	0.011	0.0010	B491169
Dissolved Iron (Fe)	mg/L	1.8	B491187	1.3	B490477	1.3	0.060	B491186
Dissolved Lead (Pb)	mg/L	<0.00020	B491169	<0.00020	B491170	<0.00020	0.00020	B491169
Dissolved Lithium (Li)	mg/L	<0.020	B491187	<0.020	B490477	<0.020	0.020	B491186
Dissolved Magnesium (Mg)	mg/L	5.1	B491187	6.3	B490477	6.4	0.20	B491186
Dissolved Manganese (Mn)	mg/L	0.0043	B491187	0.0044	B490477	0.0072	0.0040	B491186
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B491169	<0.00020	B491170	<0.00020	0.00020	B491169
Dissolved Nickel (Ni)	mg/L	0.00080	B491169	0.0010	B491170	0.0012	0.00050	B491169
Dissolved Phosphorus (P)	mg/L	<0.10	B491187	<0.10	B490477	<0.10	0.10	B491186
Dissolved Potassium (K)	mg/L	2.7	B491187	3.1	B490477	3.2	0.30	B491186
Dissolved Selenium (Se)	mg/L	<0.00020	B491169	<0.00020	B491170	<0.00020	0.00020	B491169
Dissolved Silicon (Si)	mg/L	0.75	B491187	0.64	B490477	0.63	0.50	B491186
Dissolved Silver (Ag)	mg/L	<0.00010	B491169	<0.00010	B491170	<0.00010	0.00010	B491169
Dissolved Sodium (Na)	mg/L	2.5	B491187	3.0	B490477	2.9	0.50	B491186
Dissolved Strontium (Sr)	mg/L	0.039	B491187	0.043	B490477	0.048	0.020	B491186
Dissolved Sulphur (S)	mg/L	19	B491187	32	B490477	31	0.20	B491186
Dissolved Thallium (Tl)	mg/L	<0.00020	B491169	<0.00020	B491170	<0.00020	0.00020	B491169
Dissolved Tin (Sn)	mg/L	<0.0010	B491169	<0.0010	B491170	<0.0010	0.0010	B491169
Dissolved Titanium (Ti)	mg/L	<0.0010	B491169	<0.0010	B491170	<0.0010	0.0010	B491169
Dissolved Uranium (U)	mg/L	<0.00010	B491169	<0.00010	B491170	<0.00010	0.00010	B491169

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV202		CTV203		CTV204		
Sampling Date		2024/08/20 09:35		2024/08/20 09:40		2024/08/20 09:45		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	**CB-2**	**QC Batch**	**EB-1**	**QC Batch**	**EB-2**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B491169	<0.0010	B491170	<0.0010	0.0010	B491169
Dissolved Zinc (Zn)	mg/L	0.070	B491169	0.083	B491170	0.082	0.0030	B491169
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV204			CTV205	CTV206	CTV207		
Sampling Date		2024/08/20 09:45			2024/08/20 09:55	2024/08/20 09:50	2024/08/20 10:00		
COC Number		C#733060-01-01			C#733060-01-01	C#733060-01-01	C#733060-01-01		
	UNITS	EB-2 Lab-Dup	RDL	QC Batch	NB-1	NB-2	CLD	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L				0.26	0.24	0.25	0.020	B487744
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.024	0.0030	B491169	0.023	0.024	0.025	0.0030	B491169
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B491169	<0.00060	<0.00060	<0.00060	0.00060	B491169
Dissolved Arsenic (As)	mg/L	0.00028	0.00020	B491169	0.00031	0.00036	0.00032	0.00020	B491169
Dissolved Barium (Ba)	mg/L				<0.010	<0.010	0.010	0.010	B491187
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B491169	<0.0010	<0.0010	<0.0010	0.0010	B491169
Dissolved Boron (B)	mg/L				<0.020	<0.020	<0.020	0.020	B491187
Dissolved Calcium (Ca)	mg/L				27	27	28	0.30	B491187
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B491169	<0.0010	<0.0010	<0.0010	0.0010	B491169
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B491169	<0.00030	<0.00030	<0.00030	0.00030	B491169
Dissolved Copper (Cu)	mg/L	0.012	0.0010	B491169	0.012	0.013	0.012	0.0010	B491169
Dissolved Iron (Fe)	mg/L				2.0	1.9	1.9	0.060	B491187
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B491169	<0.00020	<0.00020	<0.00020	0.00020	B491169
Dissolved Lithium (Li)	mg/L				<0.020	<0.020	<0.020	0.020	B491187
Dissolved Magnesium (Mg)	mg/L				5.4	5.3	5.4	0.20	B491187
Dissolved Manganese (Mn)	mg/L				0.0089	0.0066	0.0052	0.0040	B491187
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B491169	<0.00020	<0.00020	<0.00020	0.00020	B491169
Dissolved Nickel (Ni)	mg/L	0.0012	0.00050	B491169	0.00087	0.00084	0.00082	0.00050	B491169
Dissolved Phosphorus (P)	mg/L				<0.10	<0.10	<0.10	0.10	B491187
Dissolved Potassium (K)	mg/L				2.7	2.6	2.6	0.30	B491187
Dissolved Selenium (Se)	mg/L	0.00020	0.00020	B491169	<0.00020	<0.00020	<0.00020	0.00020	B491169
Dissolved Silicon (Si)	mg/L				0.69	0.68	0.69	0.50	B491187
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B491169	<0.00010	<0.00010	<0.00010	0.00010	B491169
Dissolved Sodium (Na)	mg/L				2.5	2.4	2.4	0.50	B491187
Dissolved Strontium (Sr)	mg/L				0.040	0.040	0.040	0.020	B491187
Dissolved Sulphur (S)	mg/L				22	22	22	0.20	B491187
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B491169	<0.00020	<0.00020	<0.00020	0.00020	B491169
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B491169	<0.0010	<0.0010	<0.0010	0.0010	B491169
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B491169	<0.0010	<0.0010	<0.0010	0.0010	B491169
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B491169	<0.00010	<0.00010	<0.00010	0.00010	B491169

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV204			CTV205	CTV206	CTV207		
Sampling Date		2024/08/20 09:45			2024/08/20 09:55	2024/08/20 09:50	2024/08/20 10:00		
COC Number		C#733060-01-01			C#733060-01-01	C#733060-01-01	C#733060-01-01		
	UNITS	**EB-2 Lab-Dup**	**RDL**	**QC Batch**	**NB-1**	**NB-2**	**CLD**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B491169	<0.0010	<0.0010	<0.0010	0.0010	B491169
Dissolved Zinc (Zn)	mg/L	0.085	0.0030	B491169	0.071	0.071	0.068	0.0030	B491169

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV208		CTV209		CTV210		
Sampling Date		2024/08/20 08:35		2024/08/20 08:35		2024/08/20 08:45		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	CL-3 SFC	QC Batch	CL-3 BTM	QC Batch	CL-7 SFC	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.091	B487744	0.093	B487744	0.069	0.020	B487744
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.023	B491170	0.024	B491169	0.022	0.0030	B491169
Dissolved Antimony (Sb)	mg/L	<0.00060	B491170	<0.00060	B491169	<0.00060	0.00060	B491169
Dissolved Arsenic (As)	mg/L	0.00041	B491170	0.00043	B491169	0.00042	0.00020	B491169
Dissolved Barium (Ba)	mg/L	<0.010	B490477	0.011	B491184	0.011	0.010	B491186
Dissolved Beryllium (Be)	mg/L	<0.0010	B491170	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Boron (B)	mg/L	<0.020	B490477	<0.020	B491184	<0.020	0.020	B491186
Dissolved Calcium (Ca)	mg/L	16	B490477	18	B491184	16	0.30	B491186
Dissolved Chromium (Cr)	mg/L	<0.0010	B491170	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Cobalt (Co)	mg/L	<0.00030	B491170	<0.00030	B491169	<0.00030	0.00030	B491169
Dissolved Copper (Cu)	mg/L	0.0078	B491170	0.0079	B491169	0.0072	0.0010	B491169
Dissolved Iron (Fe)	mg/L	0.47	B490477	0.49	B491184	0.29	0.060	B491186
Dissolved Lead (Pb)	mg/L	<0.00020	B491170	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Lithium (Li)	mg/L	<0.020	B490477	<0.020	B491184	<0.020	0.020	B491186
Dissolved Magnesium (Mg)	mg/L	4.6	B490477	4.2	B491184	4.1	0.20	B491186
Dissolved Manganese (Mn)	mg/L	<0.0040	B490477	<0.0040	B491184	<0.0040	0.0040	B491186
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B491170	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Nickel (Ni)	mg/L	0.00057	B491170	0.0013	B491169	0.00054	0.00050	B491169
Dissolved Phosphorus (P)	mg/L	<0.10	B490477	<0.10	B491184	<0.10	0.10	B491186
Dissolved Potassium (K)	mg/L	1.8	B490477	2.0	B491184	1.9	0.30	B491186
Dissolved Selenium (Se)	mg/L	<0.00020	B491170	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Silicon (Si)	mg/L	0.63	B490477	0.58	B491184	0.57	0.50	B491186
Dissolved Silver (Ag)	mg/L	<0.00010	B491170	<0.00010	B491169	<0.00010	0.00010	B491169
Dissolved Sodium (Na)	mg/L	2.7	B490477	2.3	B491184	2.3	0.50	B491186
Dissolved Strontium (Sr)	mg/L	0.032	B490477	0.034	B491184	0.034	0.020	B491186
Dissolved Sulphur (S)	mg/L	13	B490477	11	B491184	9.3	0.20	B491186
Dissolved Thallium (Tl)	mg/L	<0.00020	B491170	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Tin (Sn)	mg/L	<0.0010	B491170	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Titanium (Ti)	mg/L	<0.0010	B491170	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Uranium (U)	mg/L	<0.00010	B491170	<0.00010	B491169	<0.00010	0.00010	B491169

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV208		CTV209		CTV210		
Sampling Date		2024/08/20 08:35		2024/08/20 08:35		2024/08/20 08:45		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	**CL-3 SFC**	**QC Batch**	**CL-3 BTM**	**QC Batch**	**CL-7 SFC**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B491170	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Zinc (Zn)	mg/L	0.031	B491170	0.031	B491169	0.026	0.0030	B491169
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV211	CTV212		CTV213		CTV214		
Sampling Date		2024/08/20 08:45	2024/08/20 08:25		2024/08/20 08:25		2024/08/20 08:50		
COC Number		C#733060-01-01	C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	CL-7 BTM	CL-8-SFC	QC Batch	CL-8 BTM	QC Batch	CL-2 SFC	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.068	0.064	B487744	0.063	B487744	0.057	0.020	B487744
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.021	0.020	B491169	0.026	B491170	0.016	0.0030	B491170
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B491169	<0.00060	B491170	<0.00060	0.00060	B491170
Dissolved Arsenic (As)	mg/L	0.00045	0.00043	B491169	0.00046	B491170	0.00041	0.00020	B491170
Dissolved Barium (Ba)	mg/L	0.010	0.010	B491187	<0.010	B490482	0.011	0.010	B491186
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B491169	<0.0010	B491170	<0.0010	0.0010	B491170
Dissolved Boron (B)	mg/L	<0.020	<0.020	B491187	<0.020	B490482	<0.020	0.020	B491186
Dissolved Calcium (Ca)	mg/L	15	15	B491187	14	B490482	15	0.30	B491186
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B491169	<0.0010	B491170	<0.0010	0.0010	B491170
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B491169	<0.00030	B491170	<0.00030	0.00030	B491170
Dissolved Copper (Cu)	mg/L	0.0073	0.0069	B491169	0.0071	B491170	0.0069	0.0010	B491170
Dissolved Iron (Fe)	mg/L	0.29	0.20	B491187	0.20	B490482	0.17	0.060	B491186
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B491169	<0.00020	B491170	<0.00020	0.00020	B491170
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B491187	<0.020	B490482	<0.020	0.020	B491186
Dissolved Magnesium (Mg)	mg/L	3.9	3.8	B491187	3.4	B493101	3.8	0.20	B491186
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	B491187	<0.0040	B490482	<0.0040	0.0040	B491186
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B491169	<0.00020	B491170	<0.00020	0.00020	B491170
Dissolved Nickel (Ni)	mg/L	0.00063	<0.00050	B491169	0.00050	B491170	0.00057	0.00050	B491170
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B491187	<0.10	B490482	<0.10	0.10	B491186
Dissolved Potassium (K)	mg/L	1.9	1.8	B491187	1.9	B490482	1.8	0.30	B491186
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B491169	<0.00020	B491170	<0.00020	0.00020	B491170
Dissolved Silicon (Si)	mg/L	0.54	0.55	B491187	0.60	B490482	0.62	0.50	B491186
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B491169	<0.00010	B491170	<0.00010	0.00010	B491170
Dissolved Sodium (Na)	mg/L	2.2	2.2	B491187	2.1	B493101	2.2	0.50	B491186
Dissolved Strontium (Sr)	mg/L	0.033	0.032	B491187	0.031	B490482	0.032	0.020	B491186
Dissolved Sulphur (S)	mg/L	8.7	7.9	B491187	7.9	B493101	8.4	0.20	B491186
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B491169	<0.00020	B491170	<0.00020	0.00020	B491170
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B491169	<0.0010	B491170	<0.0010	0.0010	B491170
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B491169	<0.0010	B491170	<0.0010	0.0010	B491170
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B491169	<0.00010	B491170	<0.00010	0.00010	B491170

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV211	CTV212		CTV213		CTV214		
Sampling Date		2024/08/20 08:45	2024/08/20 08:25		2024/08/20 08:25		2024/08/20 08:50		
COC Number		C#733060-01-01	C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	**CL-7 BTM**	**CL-8-SFC**	**QC Batch**	**CL-8 BTM**	**QC Batch**	**CL-2 SFC**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B491169	<0.0010	B491170	<0.0010	0.0010	B491170
Dissolved Zinc (Zn)	mg/L	0.024	0.024	B491169	0.023	B491170	0.023	0.0030	B491170
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV214			CTV215			CTV215		
Sampling Date		2024/08/20 08:50			2024/08/20 08:50			2024/08/20 08:50		
COC Number		C#733060-01-01			C#733060-01-01			C#733060-01-01		
	UNITS	CL-2 SFC Lab-Dup	RDL	QC Batch	CL-2 BTM	RDL	QC Batch	CL-2 BTM Lab-Dup	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L				0.061	0.020	B487744			
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.019	0.0030	B491170	0.018	0.0030	B491170			
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B491170	<0.00060	0.00060	B491170			
Dissolved Arsenic (As)	mg/L	0.00040	0.00020	B491170	0.00035	0.00020	B491170			
Dissolved Barium (Ba)	mg/L				0.014	0.010	B490477	0.010	0.010	B490477
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B491170	<0.0010	0.0010	B491170			
Dissolved Boron (B)	mg/L				0.023	0.020	B490477	<0.020	0.020	B490477
Dissolved Calcium (Ca)	mg/L				14	0.30	B490477	14	0.30	B490477
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B491170	<0.0010	0.0010	B491170			
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B491170	<0.00030	0.00030	B491170			
Dissolved Copper (Cu)	mg/L	0.0068	0.0010	B491170	0.0068	0.0010	B491170			
Dissolved Iron (Fe)	mg/L				0.17	0.060	B490477	0.17	0.060	B490477
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B491170	<0.00020	0.00020	B492255			
Dissolved Lithium (Li)	mg/L				<0.020	0.020	B490477	<0.020	0.020	B490477
Dissolved Magnesium (Mg)	mg/L				3.8	0.20	B490477	3.6	0.20	B490477
Dissolved Manganese (Mn)	mg/L				<0.0040	0.0040	B490477	<0.0040	0.0040	B490477
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B491170	<0.00020	0.00020	B491170			
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B491170	<0.00050	0.00050	B491170			
Dissolved Phosphorus (P)	mg/L				<0.10	0.10	B490477	<0.10	0.10	B490477
Dissolved Potassium (K)	mg/L				1.7	0.30	B490477	1.7	0.30	B490477
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B491170	<0.00020	0.00020	B491170			
Dissolved Silicon (Si)	mg/L				0.65	0.50	B490477	0.62	0.50	B490477
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B491170	<0.00010	0.00010	B491170			
Dissolved Sodium (Na)	mg/L				2.1	0.50	B490477	2.0	0.50	B490477
Dissolved Strontium (Sr)	mg/L				0.032	0.020	B490477	0.030	0.020	B490477
Dissolved Sulphur (S)	mg/L				9.0	0.20	B490477	8.9	0.20	B490477
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B491170	<0.00020	0.00020	B491170			
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B491170	<0.0010	0.0010	B491170			
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B491170	<0.0010	0.0010	B491170			
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B491170	<0.00010	0.00010	B491170			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV214			CTV215			CTV215		
Sampling Date		2024/08/20 08:50			2024/08/20 08:50			2024/08/20 08:50		
COC Number		C#733060-01-01			C#733060-01-01			C#733060-01-01		
	UNITS	**CL-2 SFC Lab-Dup**	**RDL**	**QC Batch**	**CL-2 BTM**	**RDL**	**QC Batch**	**CL-2 BTM Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B491170	<0.0010	0.0010	B491170			
Dissolved Zinc (Zn)	mg/L	0.023	0.0030	B491170	0.023	0.0030	B491170			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV216		CTV217		CTV218	CTV219		
Sampling Date		2024/08/20 08:20		2024/08/20 08:20		2024/08/20 08:10	2024/08/20 08:10		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01	C#733060-01-01		
	UNITS	CL-4 SFC	QC Batch	CL-4 BTM	QC Batch	CL-5 SFC	CL-5 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.045	B487744	0.095	B487744	0.048	0.051	0.020	B487744
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.017	B491169	0.018	B491170	0.020	0.022	0.0030	B491169
Dissolved Antimony (Sb)	mg/L	<0.00060	B491169	<0.00060	B491170	<0.00060	<0.00060	0.00060	B491169
Dissolved Arsenic (As)	mg/L	0.00040	B491169	0.00028	B491170	0.00038	0.00043	0.00020	B491169
Dissolved Barium (Ba)	mg/L	0.010	B491186	0.011	B490477	<0.010	0.010	0.010	B491187
Dissolved Beryllium (Be)	mg/L	<0.0010	B491169	<0.0010	B491170	<0.0010	<0.0010	0.0010	B491169
Dissolved Boron (B)	mg/L	<0.020	B491186	<0.020	B490477	<0.020	<0.020	0.020	B491187
Dissolved Calcium (Ca)	mg/L	14	B491186	14	B490477	14	15	0.30	B491187
Dissolved Chromium (Cr)	mg/L	<0.0010	B491169	<0.0010	B491170	<0.0010	<0.0010	0.0010	B491169
Dissolved Cobalt (Co)	mg/L	<0.00030	B491169	<0.00030	B491170	<0.00030	<0.00030	0.00030	B491169
Dissolved Copper (Cu)	mg/L	0.0064	B491169	0.0059	B491170	0.0062	0.0075	0.0010	B491169
Dissolved Iron (Fe)	mg/L	0.13	B491186	0.44	B490477	0.14	0.20	0.060	B491187
Dissolved Lead (Pb)	mg/L	<0.00020	B491169	0.00030	B491170	<0.00020	<0.00020	0.00020	B491169
Dissolved Lithium (Li)	mg/L	<0.020	B491186	<0.020	B490477	<0.020	<0.020	0.020	B491187
Dissolved Magnesium (Mg)	mg/L	3.7	B491186	3.8	B490477	3.7	3.8	0.20	B491187
Dissolved Manganese (Mn)	mg/L	<0.0040	B491186	0.27	B490477	<0.0040	<0.0040	0.0040	B491187
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B491169	<0.00020	B491170	<0.00020	<0.00020	0.00020	B491169
Dissolved Nickel (Ni)	mg/L	0.00052	B491169	0.00059	B491170	0.00056	<0.00050	0.00050	B491169
Dissolved Phosphorus (P)	mg/L	<0.10	B491186	<0.10	B490477	<0.10	<0.10	0.10	B491187
Dissolved Potassium (K)	mg/L	1.7	B491186	1.8	B490477	1.8	1.8	0.30	B491187
Dissolved Selenium (Se)	mg/L	<0.00020	B491169	<0.00020	B491170	<0.00020	<0.00020	0.00020	B491169
Dissolved Silicon (Si)	mg/L	0.51	B491186	1.2	B490477	<0.50	0.76	0.50	B491187
Dissolved Silver (Ag)	mg/L	<0.00010	B491169	<0.00010	B491170	<0.00010	<0.00010	0.00010	B491169
Dissolved Sodium (Na)	mg/L	2.2	B491186	2.5	B490477	2.2	2.2	0.50	B491187
Dissolved Strontium (Sr)	mg/L	0.032	B491186	0.030	B490477	0.032	0.032	0.020	B491187
Dissolved Sulphur (S)	mg/L	7.7	B491186	8.6	B490477	7.2	8.1	0.20	B491187
Dissolved Thallium (Tl)	mg/L	<0.00020	B491169	<0.00020	B491170	<0.00020	<0.00020	0.00020	B491169
Dissolved Tin (Sn)	mg/L	<0.0010	B491169	<0.0010	B491170	<0.0010	<0.0010	0.0010	B491169
Dissolved Titanium (Ti)	mg/L	<0.0010	B491169	<0.0010	B491170	<0.0010	<0.0010	0.0010	B491169
Dissolved Uranium (U)	mg/L	<0.00010	B491169	<0.00010	B491170	<0.00010	<0.00010	0.00010	B491169

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV216		CTV217		CTV218	CTV219		
Sampling Date		2024/08/20 08:20		2024/08/20 08:20		2024/08/20 08:10	2024/08/20 08:10		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01	C#733060-01-01		
	UNITS	**CL-4 SFC**	**QC Batch**	**CL-4 BTM**	**QC Batch**	**CL-5 SFC**	**CL-5 BTM**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B491169	<0.0010	B491170	<0.0010	<0.0010	0.0010	B491169
Dissolved Zinc (Zn)	mg/L	0.021	B491169	0.032	B491170	0.020	0.028	0.0030	B491169
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV220		CTV221		CTV222		
Sampling Date		2024/08/20 08:05		2024/08/20 08:05		2024/08/20 00:00		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	CL-6 SFC	QC Batch	CL-6 BTM	QC Batch	SW-122	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.027	B487744	0.031	B488356	0.055	0.020	B488360
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.013	B491170	0.017	B491169	0.020	0.0030	B491170
Dissolved Antimony (Sb)	mg/L	<0.00060	B491170	<0.00060	B491169	<0.00060	0.00060	B491170
Dissolved Arsenic (As)	mg/L	0.00038	B491170	0.00038	B491169	0.00041	0.00020	B491170
Dissolved Barium (Ba)	mg/L	<0.010	B490477	0.010	B491187	<0.010	0.010	B490477
Dissolved Beryllium (Be)	mg/L	<0.0010	B491170	<0.0010	B491169	<0.0010	0.0010	B491170
Dissolved Boron (B)	mg/L	<0.020	B490477	<0.020	B491187	<0.020	0.020	B490477
Dissolved Calcium (Ca)	mg/L	12	B490477	14	B491187	14	0.30	B490477
Dissolved Chromium (Cr)	mg/L	<0.0010	B491170	<0.0010	B491169	<0.0010	0.0010	B491170
Dissolved Cobalt (Co)	mg/L	<0.00030	B491170	<0.00030	B491169	<0.00030	0.00030	B491170
Dissolved Copper (Cu)	mg/L	0.0045	B491170	0.0052	B491169	0.0070	0.0010	B491170
Dissolved Iron (Fe)	mg/L	<0.060	B490477	0.12	B491187	0.19	0.060	B490477
Dissolved Lead (Pb)	mg/L	<0.00020	B491170	<0.00020	B491169	<0.00020	0.00020	B491170
Dissolved Lithium (Li)	mg/L	<0.020	B490477	<0.020	B491187	<0.020	0.020	B490477
Dissolved Magnesium (Mg)	mg/L	3.1	B493101	3.7	B491187	3.4	0.20	B493101
Dissolved Manganese (Mn)	mg/L	<0.0040	B490477	<0.0040	B491187	<0.0040	0.0040	B490477
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B491170	<0.00020	B491169	<0.00020	0.00020	B491170
Dissolved Nickel (Ni)	mg/L	<0.00050	B491170	<0.00050	B491169	0.00058	0.00050	B491170
Dissolved Phosphorus (P)	mg/L	<0.10	B490477	<0.10	B491187	<0.10	0.10	B490477
Dissolved Potassium (K)	mg/L	1.5	B490477	1.8	B491187	1.8	0.30	B490477
Dissolved Selenium (Se)	mg/L	<0.00020	B491170	<0.00020	B491169	<0.00020	0.00020	B491170
Dissolved Silicon (Si)	mg/L	<0.50	B490477	0.60	B491187	0.59	0.50	B490477
Dissolved Silver (Ag)	mg/L	<0.00010	B491170	<0.00010	B491169	<0.00010	0.00010	B491170
Dissolved Sodium (Na)	mg/L	2.8	B490477	2.3	B491187	2.2	0.50	B493101
Dissolved Strontium (Sr)	mg/L	0.030	B490477	0.032	B491187	0.035	0.020	B490477
Dissolved Sulphur (S)	mg/L	7.2	B490477	6.4	B491187	7.8	0.20	B493101
Dissolved Thallium (Tl)	mg/L	<0.00020	B491170	<0.00020	B491169	<0.00020	0.00020	B491170
Dissolved Tin (Sn)	mg/L	<0.0010	B491170	<0.0010	B491169	<0.0010	0.0010	B491170
Dissolved Titanium (Ti)	mg/L	<0.0010	B491170	<0.0010	B491169	<0.0010	0.0010	B491170
Dissolved Uranium (U)	mg/L	<0.00010	B491170	<0.00010	B491169	<0.00010	0.00010	B491170

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV220		CTV221		CTV222		
Sampling Date		2024/08/20 08:05		2024/08/20 08:05		2024/08/20 00:00		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	**CL-6 SFC**	**QC Batch**	**CL-6 BTM**	**QC Batch**	**SW-122**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B491170	<0.0010	B491169	<0.0010	0.0010	B491170
Dissolved Zinc (Zn)	mg/L	0.011	B491170	0.016	B491169	0.023	0.0030	B491170
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV223		CTV224		CTV225		
Sampling Date		2024/08/20 00:00		2024/08/20 00:00		2024/08/20 00:00		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	SW-123	QC Batch	SW-124	QC Batch	TRIP BLANK	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.083	B488356	0.24	B488356	<0.020	0.020	B488360
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.017	B491169	0.020	B491169	<0.0030	0.0030	B491169
Dissolved Antimony (Sb)	mg/L	<0.00060	B491169	<0.00060	B491169	<0.00060	0.00060	B491169
Dissolved Arsenic (As)	mg/L	0.00031	B491169	0.00036	B491169	<0.00020	0.00020	B491169
Dissolved Barium (Ba)	mg/L	0.010	B491186	<0.010	B491187	<0.010	0.010	B491187
Dissolved Beryllium (Be)	mg/L	<0.0010	B491169	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Boron (B)	mg/L	<0.020	B491186	<0.020	B491187	<0.020	0.020	B491187
Dissolved Calcium (Ca)	mg/L	17	B491186	24	B491187	<0.30	0.30	B491187
Dissolved Chromium (Cr)	mg/L	<0.0010	B491169	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Cobalt (Co)	mg/L	<0.00030	B491169	<0.00030	B491169	<0.00030	0.00030	B491169
Dissolved Copper (Cu)	mg/L	0.0076	B491169	0.012	B491169	<0.0010	0.0010	B491169
Dissolved Iron (Fe)	mg/L	0.47	B491186	2.0	B491187	<0.060	0.060	B491187
Dissolved Lead (Pb)	mg/L	<0.00020	B491169	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Lithium (Li)	mg/L	<0.020	B491186	<0.020	B491187	<0.020	0.020	B491187
Dissolved Magnesium (Mg)	mg/L	4.1	B491186	4.9	B491187	<0.20	0.20	B491187
Dissolved Manganese (Mn)	mg/L	<0.0040	B491186	0.0056	B491187	<0.0040	0.0040	B491187
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B491169	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Nickel (Ni)	mg/L	0.00063	B491169	0.00077	B491169	<0.00050	0.00050	B491169
Dissolved Phosphorus (P)	mg/L	<0.10	B491186	<0.10	B491187	<0.10	0.10	B491187
Dissolved Potassium (K)	mg/L	1.9	B491186	2.6	B491187	<0.30	0.30	B491187
Dissolved Selenium (Se)	mg/L	<0.00020	B491169	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Silicon (Si)	mg/L	0.56	B491186	0.77	B491187	<0.50	0.50	B491187
Dissolved Silver (Ag)	mg/L	<0.00010	B491169	<0.00010	B491169	<0.00010	0.00010	B491169
Dissolved Sodium (Na)	mg/L	2.2	B491186	2.5	B491187	<0.50	0.50	B491187
Dissolved Strontium (Sr)	mg/L	0.033	B491186	0.038	B491187	<0.020	0.020	B491187
Dissolved Sulphur (S)	mg/L	11	B491186	18	B491187	<0.20	0.20	B491187
Dissolved Thallium (Tl)	mg/L	<0.00020	B491169	<0.00020	B491169	<0.00020	0.00020	B491169
Dissolved Tin (Sn)	mg/L	<0.0010	B491169	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Titanium (Ti)	mg/L	<0.0010	B491169	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Uranium (U)	mg/L	<0.00010	B491169	<0.00010	B491169	<0.00010	0.00010	B491169

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CTV223		CTV224		CTV225		
Sampling Date		2024/08/20 00:00		2024/08/20 00:00		2024/08/20 00:00		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	**SW-123**	**QC Batch**	**SW-124**	**QC Batch**	**TRIP BLANK**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B491169	<0.0010	B491169	<0.0010	0.0010	B491169
Dissolved Zinc (Zn)	mg/L	0.029	B491169	0.071	B491169	<0.0030	0.0030	B491169
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CTV198	CTV199	CTV200			CTV200		
Sampling Date		2024/08/20 10:35	2024/08/20 09:25	2024/08/20 09:20			2024/08/20 09:20		
COC Number		C#733060-01-01	C#733060-01-01	C#733060-01-01			C#733060-01-01		
	UNITS	SC-1	SB-1	SB-2	RDL	QC Batch	SB-2 Lab-Dup	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.35	0.38	0.44	0.020	B487580			
Total Aluminum (Al)	mg/L	0.11	0.072	0.070	0.0030	B491744	0.075	0.0030	B491744
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	0.00060	B491744	<0.00060	0.00060	B491744
Total Arsenic (As)	mg/L	0.00089	0.00061	0.00060	0.00020	B491744	0.00071	0.00020	B491744
Total Barium (Ba)	mg/L	<0.010	<0.010	<0.010	0.010	B491746	<0.010	0.010	B491746
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B491744	<0.0010	0.0010	B491744
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	0.020	B491746	<0.020	0.020	B491746
Total Calcium (Ca)	mg/L	9.5	23	22	0.30	B491746	22	0.30	B491746
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B491744	<0.0010	0.0010	B491744
Total Cobalt (Co)	mg/L	0.00046	<0.00030	<0.00030	0.00030	B491744	<0.00030	0.00030	B491744
Total Copper (Cu)	mg/L	0.021	0.020	0.021	0.0010	B491744	0.023	0.0010	B491744
Total Iron (Fe)	mg/L	0.48	2.3	2.4	0.060	B491746	2.4	0.060	B491746
Total Lead (Pb)	mg/L	0.00036	<0.00020	0.00069	0.00020	B491744	0.00032	0.00020	B491744
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	0.020	B491746	<0.020	0.020	B491746
Total Magnesium (Mg)	mg/L	2.8	4.5	4.3	0.20	B491746	4.3	0.20	B491746
Total Manganese (Mn)	mg/L	0.073	0.022	0.027	0.0040	B491746	0.026	0.0040	B491746
Total Molybdenum (Mo)	mg/L	<0.00020	0.00024	0.00027	0.00020	B491744	0.00030	0.00020	B491744
Total Nickel (Ni)	mg/L	0.00096	0.0014	0.0015	0.00050	B491744	0.0016	0.00050	B491744
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	0.10	B491746	<0.10	0.10	B491746
Total Potassium (K)	mg/L	1.5	2.4	2.3	0.30	B491746	2.3	0.30	B491746
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00022	0.00020	B491744	0.00025	0.00020	B491744
Total Silicon (Si)	mg/L	1.3	0.85	0.92	0.50	B491746	0.91	0.50	B491746
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B491744	<0.00010	0.00010	B491744
Total Sodium (Na)	mg/L	4.3	2.5	2.5	0.50	B491746	2.5	0.50	B491746
Total Strontium (Sr)	mg/L	0.021	0.030	0.029	0.020	B491746	0.029	0.020	B491746
Total Sulphur (S)	mg/L	1.3	18	17	0.20	B491746	16	0.20	B491746
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B491744	<0.00020	0.00020	B491744
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B491744	<0.0010	0.0010	B491744
Total Titanium (Ti)	mg/L	0.0060	0.0029	0.0021	0.0010	B491744	0.0024	0.0010	B491744
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B491744	<0.00010	0.00010	B491744
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B491744	<0.0010	0.0010	B491744

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CTV198	CTV199	CTV200			CTV200		
Sampling Date		2024/08/20 10:35	2024/08/20 09:25	2024/08/20 09:20			2024/08/20 09:20		
COC Number		C#733060-01-01	C#733060-01-01	C#733060-01-01			C#733060-01-01		
	UNITS	**SC-1**	**SB-1**	**SB-2**	**RDL**	**QC Batch**	**SB-2 Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.11	0.11	0.12	0.0030	B491744	0.13	0.0030	B491744

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CTV201	CTV202	CTV203		CTV204		
Sampling Date		2024/08/20 09:30	2024/08/20 09:35	2024/08/20 09:40		2024/08/20 09:45		
COC Number		C#733060-01-01	C#733060-01-01	C#733060-01-01		C#733060-01-01		
	UNITS	CB-1	CB-2	EB-1	QC Batch	EB-2	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.37	0.37	0.57	B487580	0.40	0.020	B487580
Total Aluminum (Al)	mg/L	0.063	0.059	0.087	B491744	0.059	0.0030	B492262
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	B491744	<0.00060	0.00060	B492262
Total Arsenic (As)	mg/L	0.00056	0.00055	0.00054	B491744	0.00040	0.00020	B492262
Total Barium (Ba)	mg/L	<0.010	<0.010	0.010	B491746	0.011	0.010	B492271
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	B491744	<0.0010	0.0010	B492262
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	B491746	<0.020	0.020	B492271
Total Calcium (Ca)	mg/L	23	25	35	B491746	32	0.30	B492271
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	B491744	<0.0010	0.0010	B492262
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	B491744	<0.00030	0.00030	B492262
Total Copper (Cu)	mg/L	0.019	0.018	0.023	B491744	0.014	0.0010	B492262
Total Iron (Fe)	mg/L	2.2	2.1	1.8	B491746	1.7	0.060	B492271
Total Lead (Pb)	mg/L	0.00054	0.00021	<0.00020	B491744	<0.00020	0.00020	B492262
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	B491746	<0.020	0.020	B492271
Total Magnesium (Mg)	mg/L	4.5	4.7	6.0	B491746	5.6	0.20	B492271
Total Manganese (Mn)	mg/L	0.022	0.018	0.013	B491746	0.013	0.0040	B492271
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	B491744	<0.00020	0.00020	B492262
Total Nickel (Ni)	mg/L	0.0014	0.0012	0.0018	B491744	0.0011	0.00050	B492262
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	B491746	<0.10	0.10	B492271
Total Potassium (K)	mg/L	2.4	2.6	3.0	B491746	2.9	0.30	B492271
Total Selenium (Se)	mg/L	0.00021	0.00021	0.00024	B491744	0.00021	0.00020	B492262
Total Silicon (Si)	mg/L	0.84	0.80	0.70	B491746	0.67	0.50	B492271
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	B491744	<0.00010	0.00010	B492262
Total Sodium (Na)	mg/L	2.5	2.6	3.0	B491746	2.6	0.50	B492271
Total Strontium (Sr)	mg/L	0.029	0.031	0.037	B491746	0.039	0.020	B492271
Total Sulphur (S)	mg/L	17	19	30	B491746	29	0.20	B492271
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	B491744	<0.00020	0.00020	B492262
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	B491744	<0.0010	0.0010	B492262
Total Titanium (Ti)	mg/L	0.0025	0.0017	0.0030	B491744	0.0017	0.0010	B492262
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	B491744	<0.00010	0.00010	B492262
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	B491744	<0.0010	0.0010	B492262
Total Zinc (Zn)	mg/L	0.11	0.10	0.15	B491744	0.11	0.0030	B492262

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CTV205	CTV206	CTV207		CTV208		
Sampling Date		2024/08/20 09:55	2024/08/20 09:50	2024/08/20 10:00		2024/08/20 08:35		
COC Number		C#733060-01-01	C#733060-01-01	C#733060-01-01		C#733060-01-01		
	UNITS	NB-1	NB-2	CLD	QC Batch	CL-3 SFC	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.34	0.37	0.43	B487580	0.12	0.020	B487580
Total Aluminum (Al)	mg/L	0.071	0.071	0.15	B491744	0.067	0.0030	B490920
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	B491744	<0.00060	0.00060	B490920
Total Arsenic (As)	mg/L	0.00045	0.00054	0.00067	B491744	0.00040	0.00020	B490920
Total Barium (Ba)	mg/L	<0.010	<0.010	<0.010	B491746	<0.010	0.010	B490921
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	B491744	<0.0010	0.0010	B490920
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	B491746	<0.020	0.020	B490921
Total Calcium (Ca)	mg/L	27	26	27	B491746	17	0.30	B490921
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	B491744	<0.0010	0.0010	B490920
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	B491744	<0.00030	0.00030	B490920
Total Copper (Cu)	mg/L	0.018	0.020	0.023	B491744	0.0098	0.0010	B490920
Total Iron (Fe)	mg/L	2.2	2.1	2.2	B491746	0.68	0.060	B490921
Total Lead (Pb)	mg/L	0.00034	0.00089	0.0096	B491744	<0.00020	0.00020	B490920
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	B491746	<0.020	0.020	B490921
Total Magnesium (Mg)	mg/L	4.9	4.8	5.0	B491746	3.7	0.20	B490921
Total Manganese (Mn)	mg/L	0.021	0.020	0.022	B491746	0.014	0.0040	B490921
Total Molybdenum (Mo)	mg/L	0.00037	0.00030	<0.00020	B491744	0.00036	0.00020	B490920
Total Nickel (Ni)	mg/L	0.0011	0.0013	0.0015	B491744	0.00088	0.00050	B490920
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	B491746	<0.10	0.10	B490921
Total Potassium (K)	mg/L	2.4	2.4	2.5	B491746	1.8	0.30	B490921
Total Selenium (Se)	mg/L	0.00023	0.00022	0.00026	B491744	<0.00020	0.00020	B490920
Total Silicon (Si)	mg/L	0.81	0.76	0.85	B491746	0.68	0.50	B490921
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	B491744	<0.00010	0.00010	B490920
Total Sodium (Na)	mg/L	2.5	2.5	2.6	B491746	2.3	0.50	B490921
Total Strontium (Sr)	mg/L	0.031	0.030	0.031	B491746	0.028	0.020	B490921
Total Sulphur (S)	mg/L	22	21	22	B491746	10	0.20	B490921
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	B491744	<0.00020	0.00020	B490920
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	B491744	<0.0010	0.0010	B490920
Total Titanium (Ti)	mg/L	0.0025	0.0022	0.0079	B491744	0.0020	0.0010	B490920
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	B491744	<0.00010	0.00010	B490920
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	B491744	<0.0010	0.0010	B490920
Total Zinc (Zn)	mg/L	0.099	0.11	0.13	B491744	0.038	0.0030	B490920

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CTV209	CTV210	CTV211	CTV212	CTV213		
Sampling Date		2024/08/20 08:35	2024/08/20 08:45	2024/08/20 08:45	2024/08/20 08:25	2024/08/20 08:25		
COC Number		C#733060-01-01	C#733060-01-01	C#733060-01-01	C#733060-01-01	C#733060-01-01		
	UNITS	CL-3 BTM	CL-7 SFC	CL-7 BTM	CL-8-SFC	CL-8 BTM	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.19	0.14	0.14	0.12	0.14	0.020	B487580
Total Aluminum (Al)	mg/L	0.092	0.078	0.091	0.060	0.064	0.0030	B491744
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B491744
Total Arsenic (As)	mg/L	0.00066	0.00066	0.00075	0.00076	0.00075	0.00020	B491744
Total Barium (Ba)	mg/L	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	B491746
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B491744
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B491746
Total Calcium (Ca)	mg/L	17	15	15	14	14	0.30	B491746
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B491744
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B491744
Total Copper (Cu)	mg/L	0.014	0.013	0.013	0.012	0.012	0.0010	B491744
Total Iron (Fe)	mg/L	0.68	0.46	0.44	0.25	0.33	0.060	B491746
Total Lead (Pb)	mg/L	0.00025	<0.00020	0.00030	0.00066	<0.00020	0.00020	B491744
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B491746
Total Magnesium (Mg)	mg/L	3.7	3.4	3.6	3.4	3.4	0.20	B491746
Total Manganese (Mn)	mg/L	0.015	0.013	0.013	0.011	0.013	0.0040	B491746
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	0.00022	<0.00020	0.00020	B491744
Total Nickel (Ni)	mg/L	0.0012	0.0012	0.00093	0.00091	0.00085	0.00050	B491744
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B491746
Total Potassium (K)	mg/L	1.8	1.7	1.7	1.6	1.6	0.30	B491746
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B491744
Total Silicon (Si)	mg/L	0.70	0.62	0.61	0.58	0.61	0.50	B491746
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B491744
Total Sodium (Na)	mg/L	2.3	2.2	2.3	2.2	2.2	0.50	B491746
Total Strontium (Sr)	mg/L	0.026	0.025	0.026	0.025	0.025	0.020	B491746
Total Sulphur (S)	mg/L	10	8.2	8.3	7.3	7.9	0.20	B491746
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B491744
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B491744
Total Titanium (Ti)	mg/L	0.0038	0.0029	0.0026	0.0019	0.0022	0.0010	B491744
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B491744
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B491744
Total Zinc (Zn)	mg/L	0.059	0.047	0.050	0.042	0.045	0.0030	B491744

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CTV214		CTV215		CTV216		
Sampling Date		2024/08/20 08:50		2024/08/20 08:50		2024/08/20 08:20		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	CL-2 SFC	QC Batch	CL-2 BTM	QC Batch	CL-4 SFC	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.081	B487580	0.12	B487580	0.082	0.020	B487580
Total Aluminum (Al)	mg/L	0.043	B490920	0.051	B491744	0.049	0.0030	B491841
Total Antimony (Sb)	mg/L	<0.00060	B490920	<0.00060	B491744	<0.00060	0.00060	B491841
Total Arsenic (As)	mg/L	0.00042	B490920	0.00061	B491744	0.00051	0.00020	B491841
Total Barium (Ba)	mg/L	<0.010	B490921	<0.010	B491746	0.010	0.010	B491848
Total Beryllium (Be)	mg/L	<0.0010	B490920	<0.0010	B491744	<0.0010	0.0010	B491841
Total Boron (B)	mg/L	<0.020	B490921	<0.020	B491746	<0.020	0.020	B491848
Total Calcium (Ca)	mg/L	15	B490921	14	B491746	14	0.30	B491848
Total Chromium (Cr)	mg/L	<0.0010	B490920	<0.0010	B491744	<0.0010	0.0010	B491841
Total Cobalt (Co)	mg/L	<0.00030	B490920	<0.00030	B491744	<0.00030	0.00030	B491841
Total Copper (Cu)	mg/L	0.0083	B490920	0.011	B491744	0.0086	0.0010	B491841
Total Iron (Fe)	mg/L	0.26	B490921	0.25	B491746	0.26	0.060	B491848
Total Lead (Pb)	mg/L	<0.00020	B490920	0.00023	B491744	<0.00020	0.00020	B491841
Total Lithium (Li)	mg/L	<0.020	B490921	<0.020	B491746	<0.020	0.020	B491848
Total Magnesium (Mg)	mg/L	3.6	B490921	3.4	B491746	3.8	0.20	B491848
Total Manganese (Mn)	mg/L	0.0098	B490921	0.0092	B491746	0.014	0.0040	B491848
Total Molybdenum (Mo)	mg/L	<0.00020	B490920	<0.00020	B491744	<0.00020	0.00020	B491841
Total Nickel (Ni)	mg/L	0.00066	B490920	0.00083	B491744	0.00074	0.00050	B491841
Total Phosphorus (P)	mg/L	<0.10	B490921	<0.10	B491746	<0.10	0.10	B491848
Total Potassium (K)	mg/L	1.7	B490921	1.6	B491746	1.7	0.30	B491848
Total Selenium (Se)	mg/L	<0.00020	B490920	<0.00020	B491744	<0.00020	0.00020	B491841
Total Silicon (Si)	mg/L	0.68	B490921	0.62	B491746	0.69	0.50	B491848
Total Silver (Ag)	mg/L	<0.00010	B490920	<0.00010	B491744	<0.00010	0.00010	B491841
Total Sodium (Na)	mg/L	2.3	B490921	2.2	B491746	2.2	0.50	B491848
Total Strontium (Sr)	mg/L	0.028	B490921	0.025	B491746	0.031	0.020	B491848
Total Sulphur (S)	mg/L	8.5	B490921	7.7	B491746	8.2	0.20	B491848
Total Thallium (Tl)	mg/L	<0.00020	B490920	<0.00020	B491744	<0.00020	0.00020	B491841
Total Tin (Sn)	mg/L	<0.0010	B490920	<0.0010	B491744	<0.0010	0.0010	B491841
Total Titanium (Ti)	mg/L	<0.0010	B490920	0.0015	B491744	0.0017	0.0010	B491841
Total Uranium (U)	mg/L	<0.00010	B490920	<0.00010	B491744	<0.00010	0.00010	B491841
Total Vanadium (V)	mg/L	<0.0010	B490920	<0.0010	B491744	<0.0010	0.0010	B491841
Total Zinc (Zn)	mg/L	0.028	B490920	0.040	B491744	0.030	0.0030	B491841

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CTV217		CTV218		CTV219	CTV220		
Sampling Date		2024/08/20 08:20		2024/08/20 08:10		2024/08/20 08:10	2024/08/20 08:05		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01	C#733060-01-01		
	UNITS	CL-4 BTM	QC Batch	CL-5 SFC	QC Batch	CL-5 BTM	CL-6 SFC	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.17	B487580	0.094	B487580	0.14	0.053	0.020	B487580
Total Aluminum (Al)	mg/L	0.056	B492262	0.057	B491744	0.061	0.040	0.0030	B492262
Total Antimony (Sb)	mg/L	<0.00060	B492262	<0.00060	B491744	<0.00060	<0.00060	0.00060	B492262
Total Arsenic (As)	mg/L	0.00064	B492262	0.00068	B491744	0.00059	0.00060	0.00020	B492262
Total Barium (Ba)	mg/L	0.012	B492271	<0.010	B491746	<0.010	<0.010	0.010	B492271
Total Beryllium (Be)	mg/L	<0.0010	B492262	<0.0010	B491744	<0.0010	<0.0010	0.0010	B492262
Total Boron (B)	mg/L	<0.020	B492271	<0.020	B491746	<0.020	<0.020	0.020	B492271
Total Calcium (Ca)	mg/L	14	B492271	13	B491746	13	11	0.30	B492271
Total Chromium (Cr)	mg/L	<0.0010	B492262	<0.0010	B491744	<0.0010	<0.0010	0.0010	B492262
Total Cobalt (Co)	mg/L	0.00057	B492262	<0.00030	B491744	<0.00030	<0.00030	0.00030	B492262
Total Copper (Cu)	mg/L	0.0092	B492262	0.0099	B491744	0.0099	0.0057	0.0010	B492262
Total Iron (Fe)	mg/L	1.5	B492271	0.20	B491746	0.43	0.13	0.060	B492271
Total Lead (Pb)	mg/L	0.00035	B492262	0.00038	B491744	0.00045	<0.00020	0.00020	B492262
Total Lithium (Li)	mg/L	<0.020	B492271	<0.020	B491746	<0.020	<0.020	0.020	B492271
Total Magnesium (Mg)	mg/L	3.3	B492271	3.3	B491746	3.3	3.1	0.20	B492271
Total Manganese (Mn)	mg/L	0.30	B492271	0.011	B491746	0.057	0.015	0.0040	B492271
Total Molybdenum (Mo)	mg/L	<0.00020	B492262	<0.00020	B491744	<0.00020	<0.00020	0.00020	B492262
Total Nickel (Ni)	mg/L	0.00074	B492262	0.00095	B491744	0.0010	<0.00050	0.00050	B492262
Total Phosphorus (P)	mg/L	<0.10	B492271	<0.10	B491746	<0.10	<0.10	0.10	B492271
Total Potassium (K)	mg/L	1.6	B492271	1.6	B491746	1.6	1.5	0.30	B492271
Total Selenium (Se)	mg/L	<0.00020	B492262	<0.00020	B491744	<0.00020	<0.00020	0.00020	B492262
Total Silicon (Si)	mg/L	1.2	B492271	0.54	B491746	0.87	<0.50	0.50	B492271
Total Silver (Ag)	mg/L	<0.00010	B492262	<0.00010	B491744	<0.00010	<0.00010	0.00010	B492262
Total Sodium (Na)	mg/L	2.0	B492271	2.2	B491746	2.0	2.0	0.50	B492271
Total Strontium (Sr)	mg/L	0.028	B492271	0.025	B491746	0.027	0.026	0.020	B492271
Total Sulphur (S)	mg/L	7.4	B492271	6.8	B491746	7.5	5.4	0.20	B492271
Total Thallium (Tl)	mg/L	<0.00020	B492262	<0.00020	B491744	<0.00020	<0.00020	0.00020	B492262
Total Tin (Sn)	mg/L	<0.0010	B492262	<0.0010	B491744	<0.0010	<0.0010	0.0010	B492262
Total Titanium (Ti)	mg/L	<0.0010	B492262	<0.0010	B491744	0.0016	0.0012	0.0010	B492262
Total Uranium (U)	mg/L	<0.00010	B492262	<0.00010	B491744	<0.00010	<0.00010	0.00010	B492262
Total Vanadium (V)	mg/L	<0.0010	B492262	<0.0010	B491744	<0.0010	<0.0010	0.0010	B492262
Total Zinc (Zn)	mg/L	0.049	B492262	0.034	B491744	0.046	0.018	0.0030	B492262

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CTV221	CTV222		CTV223	CTV224		
Sampling Date		2024/08/20 08:05	2024/08/20 00:00		2024/08/20 00:00	2024/08/20 00:00		
COC Number		C#733060-01-01	C#733060-01-01		C#733060-01-01	C#733060-01-01		
	UNITS	CL-6 BTM	SW-122	QC Batch	SW-123	SW-124	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.10	0.13	B487580	0.13	0.37	0.020	B488361
Total Aluminum (Al)	mg/L	0.079	0.067	B491841	0.079	0.068	0.0030	B491841
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B491841	<0.00060	<0.00060	0.00060	B491841
Total Arsenic (As)	mg/L	0.00071	0.00061	B491841	0.00055	0.00059	0.00020	B491841
Total Barium (Ba)	mg/L	0.011	0.010	B491848	0.010	<0.010	0.010	B491848
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B491841	<0.0010	<0.0010	0.0010	B491841
Total Boron (B)	mg/L	<0.020	<0.020	B491848	<0.020	<0.020	0.020	B491848
Total Calcium (Ca)	mg/L	13	15	B491848	17	24	0.30	B491848
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B491841	<0.0010	<0.0010	0.0010	B491841
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B491841	<0.00030	<0.00030	0.00030	B491841
Total Copper (Cu)	mg/L	0.0085	0.012	B491841	0.011	0.020	0.0010	B491841
Total Iron (Fe)	mg/L	0.41	0.41	B491848	0.74	2.4	0.060	B491848
Total Lead (Pb)	mg/L	0.00026	0.00021	B491841	<0.00020	<0.00020	0.00020	B491841
Total Lithium (Li)	mg/L	<0.020	<0.020	B491848	<0.020	<0.020	0.020	B491848
Total Magnesium (Mg)	mg/L	3.7	3.8	B491848	4.1	4.8	0.20	B491848
Total Manganese (Mn)	mg/L	0.065	0.023	B491848	0.017	0.026	0.0040	B491848
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B491841	<0.00020	<0.00020	0.00020	B491841
Total Nickel (Ni)	mg/L	0.00087	0.00088	B491841	0.00085	0.0013	0.00050	B491841
Total Phosphorus (P)	mg/L	<0.10	<0.10	B491848	<0.10	<0.10	0.10	B491848
Total Potassium (K)	mg/L	1.7	1.8	B491848	1.9	2.6	0.30	B491848
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B491841	<0.00020	0.00021	0.00020	B491841
Total Silicon (Si)	mg/L	0.97	0.79	B491848	0.80	0.97	0.50	B491848
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B491841	<0.00010	<0.00010	0.00010	B491841
Total Sodium (Na)	mg/L	2.2	2.2	B491848	2.2	2.5	0.50	B491848
Total Strontium (Sr)	mg/L	0.031	0.030	B491848	0.032	0.036	0.020	B491848
Total Sulphur (S)	mg/L	7.0	8.7	B491848	11	19	0.20	B491848
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B491841	<0.00020	<0.00020	0.00020	B491841
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B491841	<0.0010	<0.0010	0.0010	B491841
Total Titanium (Ti)	mg/L	0.0025	0.0020	B491841	0.0031	0.0025	0.0010	B491841
Total Uranium (U)	mg/L	<0.00010	<0.00010	B491841	<0.00010	<0.00010	0.00010	B491841
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B491841	<0.0010	<0.0010	0.0010	B491841
Total Zinc (Zn)	mg/L	0.036	0.045	B491841	0.043	0.12	0.0030	B491841

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CTV225		
Sampling Date		2024/08/20 00:00		
COC Number		C#733060-01-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Elements				
Total Cadmium (Cd)	ug/L	<0.020	0.020	B488361
Total Aluminum (Al)	mg/L	<0.0030	0.0030	B491841
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B491841
Total Arsenic (As)	mg/L	<0.00020	0.00020	B491841
Total Barium (Ba)	mg/L	<0.010	0.010	B491848
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B491841
Total Boron (B)	mg/L	<0.020	0.020	B491848
Total Calcium (Ca)	mg/L	<0.30	0.30	B491848
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B491841
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B491841
Total Copper (Cu)	mg/L	<0.0010	0.0010	B491841
Total Iron (Fe)	mg/L	<0.060	0.060	B491848
Total Lead (Pb)	mg/L	<0.00020	0.00020	B491841
Total Lithium (Li)	mg/L	<0.020	0.020	B491848
Total Magnesium (Mg)	mg/L	<0.20	0.20	B491848
Total Manganese (Mn)	mg/L	<0.0040	0.0040	B491848
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B491841
Total Nickel (Ni)	mg/L	<0.00050	0.00050	B491841
Total Phosphorus (P)	mg/L	<0.10	0.10	B491848
Total Potassium (K)	mg/L	<0.30	0.30	B491848
Total Selenium (Se)	mg/L	<0.00020	0.00020	B491841
Total Silicon (Si)	mg/L	<0.50	0.50	B491848
Total Silver (Ag)	mg/L	<0.00010	0.00010	B491841
Total Sodium (Na)	mg/L	<0.50	0.50	B491848
Total Strontium (Sr)	mg/L	<0.020	0.020	B491848
Total Sulphur (S)	mg/L	<0.20	0.20	B491848
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B491841
Total Tin (Sn)	mg/L	<0.0010	0.0010	B491841
Total Titanium (Ti)	mg/L	<0.0010	0.0010	B491841
Total Uranium (U)	mg/L	<0.00010	0.00010	B491841
Total Vanadium (V)	mg/L	<0.0010	0.0010	B491841
Total Zinc (Zn)	mg/L	<0.0030	0.0030	B491841
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C464896
Report Date: 2024/08/27

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CTV198			CTV198			CTV199		
Sampling Date		2024/08/20 10:35			2024/08/20 10:35			2024/08/20 09:25		
COC Number		C#733060-01-01			C#733060-01-01			C#733060-01-01		
	UNITS	SC-1	RDL	QC Batch	SC-1 Lab-Dup	RDL	QC Batch	SB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	36	0.50	B488371				80	0.50	B488371
Total Hardness (CaCO3)	mg/L	35.3	0.50	B487623				77.0	0.50	B487623
Misc. Inorganics										
pH	pH	6.41	N/A	B490601				6.42	N/A	B490601
Total Organic Carbon (C)	mg/L	14	0.50	B491699				12	0.50	B491699
Total Suspended Solids	mg/L	<0.97	0.97	B491487	<1.0	1.0	B491487	1.4	1.0	B491487
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	13	0.50	B491614				11	0.50	B491705
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B490589				<1.0	1.0	B490589
Alkalinity (Total as CaCO3)	mg/L	31	1.0	B490589				22	1.0	B490589
Bicarbonate (HCO3)	mg/L	37	1.0	B490589				27	1.0	B490589
Carbonate (CO3)	mg/L	<1.0	1.0	B490589				<1.0	1.0	B490589
Hydroxide (OH)	mg/L	<1.0	1.0	B490589				<1.0	1.0	B490589
Sulphate (SO4)	mg/L	2.2	1.0	B490542				60	1.0	B490545
Physical Properties										
Turbidity	NTU	1.2	0.10	B489386	1.2	0.10	B489386	3.6	0.10	B489386

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C464896
Report Date: 2024/08/27

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CTV200	CTV201	CTV202		CTV203		
Sampling Date		2024/08/20 09:20	2024/08/20 09:30	2024/08/20 09:35		2024/08/20 09:40		
COC Number		C#733060-01-01	C#733060-01-01	C#733060-01-01		C#733060-01-01		
	UNITS	**SB-2**	**CB-1**	**CB-2**	**QC Batch**	**EB-1**	**RDL**	**QC Batch**
Calculated Parameters								
Hardness (CaCO3)	mg/L	76	82	84	B488371	110	0.50	B488371
Total Hardness (CaCO3)	mg/L	73.1	76.5	81.3	B487623	112	0.50	B487623
Misc. Inorganics								
pH	pH	6.20	6.18	6.16	B490578	6.10	N/A	B490578
Total Organic Carbon (C)	mg/L	12	12	12	B491699	10	0.50	B491699
Total Suspended Solids	mg/L	<1.0	2.7	1.3	B491487	1.5	1.0	B491487
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	12	12	10	B491705	10	0.50	B491614
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	<1.0	B490553	<1.0	1.0	B490553
Alkalinity (Total as CaCO3)	mg/L	22	22	21	B490553	15	1.0	B490553
Bicarbonate (HCO3)	mg/L	27	26	26	B490553	18	1.0	B490553
Carbonate (CO3)	mg/L	<1.0	<1.0	<1.0	B490553	<1.0	1.0	B490553
Hydroxide (OH)	mg/L	<1.0	<1.0	<1.0	B490553	<1.0	1.0	B490553
Sulphate (SO4)	mg/L	55	58	64	B490631	92	1.0	B490630
Physical Properties								
Turbidity	NTU	4.3	3.5	3.1	B489386	3.4	0.10	B489386

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C464896
Report Date: 2024/08/27

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CTV204			CTV204			CTV205		
Sampling Date		2024/08/20 09:45			2024/08/20 09:45			2024/08/20 09:55		
COC Number		C#733060-01-01			C#733060-01-01			C#733060-01-01		
	UNITS	EB-2	RDL	QC Batch	EB-2 Lab-Dup	RDL	QC Batch	NB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	120	0.50	B488371				91	0.50	B488371
Total Hardness (CaCO3)	mg/L	103	0.50	B487623				86.7	0.50	B487623
Misc. Inorganics										
pH	pH	6.08	N/A	B490578				6.17	N/A	B490578
Total Organic Carbon (C)	mg/L	9.8	0.50	B491802	10	0.50	B491802	11	0.50	B491802
Total Suspended Solids	mg/L	1.3	1.0	B491487				2.1	0.97	B491487
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B491705				11	0.50	B491614
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B490553				<1.0	1.0	B490553
Alkalinity (Total as CaCO3)	mg/L	14	1.0	B490553				20	1.0	B490553
Bicarbonate (HCO3)	mg/L	17	1.0	B490553				25	1.0	B490553
Carbonate (CO3)	mg/L	<1.0	1.0	B490553				<1.0	1.0	B490553
Hydroxide (OH)	mg/L	<1.0	1.0	B490553				<1.0	1.0	B490553
Sulphate (SO4)	mg/L	94	1.0	B490631				71	1.0	B490542
Physical Properties										
Turbidity	NTU	3.5	0.10	B489386				3.1	0.10	B489386

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C464896
Report Date: 2024/08/27

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CTV206		CTV207		CTV208		
Sampling Date		2024/08/20 09:50		2024/08/20 10:00		2024/08/20 08:35		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	NB-2	QC Batch	CLD	QC Batch	CL-3 SFC	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	90	B488371	91	B488371	60	0.50	B488371
Total Hardness (CaCO3)	mg/L	84.4	B487623	89.0	B487623	57.6	0.50	B487623
Misc. Inorganics								
pH	pH	6.23	B490601	6.23	B490601	6.23	N/A	B490578
Total Organic Carbon (C)	mg/L	11	B491802	11	B491699	10	0.50	B491699
Total Suspended Solids	mg/L	1.3	B491487	<1.0	B491487	1.5	1.0	B491487
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	11	B491705	12	B491705	10	0.50	B491614
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B490589	<1.0	B490589	<1.0	1.0	B490553
Alkalinity (Total as CaCO3)	mg/L	21	B490589	21	B490589	25	1.0	B490553
Bicarbonate (HCO3)	mg/L	26	B490589	26	B490589	31	1.0	B490553
Carbonate (CO3)	mg/L	<1.0	B490589	<1.0	B490589	<1.0	1.0	B490553
Hydroxide (OH)	mg/L	<1.0	B490589	<1.0	B490589	<1.0	1.0	B490553
Sulphate (SO4)	mg/L	72	B490542	72	B490542	37	1.0	B490630
Physical Properties								
Turbidity	NTU	3.1	B489386	4.3	B489386	2.9	0.10	B489386

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C464896
Report Date: 2024/08/27

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CTV209			CTV209			CTV210		
Sampling Date		2024/08/20 08:35			2024/08/20 08:35			2024/08/20 08:45		
COC Number		C#733060-01-01			C#733060-01-01			C#733060-01-01		
	UNITS	CL-3 BTM	RDL	QC Batch	CL-3 BTM Lab-Dup	RDL	QC Batch	CL-7 SFC	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	61	0.50	B488371				57	0.50	B488371
Total Hardness (CaCO3)	mg/L	57.3	0.50	B487623				51.1	0.50	B487623
Misc. Inorganics										
pH	pH	6.25	N/A	B490578				6.27	N/A	B490578
Total Organic Carbon (C)	mg/L	11	0.50	B491802				11	0.50	B491802
Total Suspended Solids	mg/L	<0.99	0.99	B491487				1.2	1.0	B491487
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B491705				11	0.50	B491705
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B490553				<1.0	1.0	B490553
Alkalinity (Total as CaCO3)	mg/L	25	1.0	B490553				27	1.0	B490553
Bicarbonate (HCO3)	mg/L	31	1.0	B490553				33	1.0	B490553
Carbonate (CO3)	mg/L	<1.0	1.0	B490553				<1.0	1.0	B490553
Hydroxide (OH)	mg/L	<1.0	1.0	B490553				<1.0	1.0	B490553
Sulphate (SO4)	mg/L	37	1.0	B490631	37	1.0	B490631	29	1.0	B490631
Physical Properties										
Turbidity	NTU	2.0	0.10	B489386				2.0	0.10	B489386

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CTV211		CTV212		CTV213		
Sampling Date		2024/08/20 08:45		2024/08/20 08:25		2024/08/20 08:25		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	CL-7 BTM	QC Batch	CL-8-SFC	QC Batch	CL-8 BTM	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	55	B488371	52	B488371	50	0.50	B488371
Total Hardness (CaCO3)	mg/L	52.2	B487623	49.4	B487623	49.7	0.50	B487623
Misc. Inorganics								
pH	pH	6.32	B490601	6.28	B490578	6.25	N/A	B490578
Total Organic Carbon (C)	mg/L	10	B491699	11	B491699	11	0.50	B491802
Total Suspended Solids	mg/L	1.0	B491487	<1.0	B491487	1.4	1.0	B491487
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	11	B491705	10	B491705	11	0.50	B491614
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B490589	<1.0	B490553	<1.0	1.0	B490553
Alkalinity (Total as CaCO3)	mg/L	28	B490589	27	B490553	27	1.0	B490553
Bicarbonate (HCO3)	mg/L	34	B490589	33	B490553	33	1.0	B490553
Carbonate (CO3)	mg/L	<1.0	B490589	<1.0	B490553	<1.0	1.0	B490553
Hydroxide (OH)	mg/L	<1.0	B490589	<1.0	B490553	<1.0	1.0	B490553
Sulphate (SO4)	mg/L	29	B490542	26	B490545	27	1.0	B490630
Physical Properties								
Turbidity	NTU	2.1	B489386	1.3	B489386	2.0	0.10	B489386

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C464896
Report Date: 2024/08/27

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CTV214		CTV215		CTV216		
Sampling Date		2024/08/20 08:50		2024/08/20 08:50		2024/08/20 08:20		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	CL-2 SFC	QC Batch	CL-2 BTM	QC Batch	CL-4 SFC	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	53	B488371	50	B488371	51	0.50	B488371
Total Hardness (CaCO3)	mg/L	52.9	B487623	49.9	B487623	51.4	0.50	B487623
Misc. Inorganics								
pH	pH	6.34	B490601	6.23	B490578	6.24	N/A	B490578
Total Organic Carbon (C)	mg/L	11	B491699	10	B491802	11	0.50	B491802
Total Suspended Solids	mg/L	<1.0	B491487	<1.0	B491487	<1.0	1.0	B491487
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	11	B491705	10	B491614	11	0.50	B491705
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B490589	<1.0	B490553	<1.0	1.0	B490553
Alkalinity (Total as CaCO3)	mg/L	27	B490589	28	B490553	27	1.0	B490553
Bicarbonate (HCO3)	mg/L	32	B490589	34	B490553	33	1.0	B490553
Carbonate (CO3)	mg/L	<1.0	B490589	<1.0	B490553	<1.0	1.0	B490553
Hydroxide (OH)	mg/L	<1.0	B490589	<1.0	B490553	<1.0	1.0	B490553
Sulphate (SO4)	mg/L	27	B490542	28	B490630	25	1.0	B490631
Physical Properties								
Turbidity	NTU	1.3	B489386	1.4	B489386	1.4	0.10	B489386

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C464896
Report Date: 2024/08/27

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CTV217		CTV218			CTV218		
Sampling Date		2024/08/20 08:20		2024/08/20 08:10			2024/08/20 08:10		
COC Number		C#733060-01-01		C#733060-01-01			C#733060-01-01		
	UNITS	CL-4 BTM	QC Batch	CL-5 SFC	RDL	QC Batch	CL-5 SFC Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	51	B488371	50	0.50	B488371			
Total Hardness (CaCO3)	mg/L	47.7	B487623	47.1	0.50	B487623			
Misc. Inorganics									
pH	pH	6.26	B490578	6.35	N/A	B490601			
Total Organic Carbon (C)	mg/L	11	B491699	11	0.50	B491699			
Total Suspended Solids	mg/L	2.9	B492601	2.1	1.0	B491489	1.3	1.0	B491489
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	10	B491614	9.6	0.50	B491705	10	0.50	B491705
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B490553	<1.0	1.0	B490589			
Alkalinity (Total as CaCO3)	mg/L	30	B490553	27	1.0	B490589			
Bicarbonate (HCO3)	mg/L	37	B490553	33	1.0	B490589			
Carbonate (CO3)	mg/L	<1.0	B490553	<1.0	1.0	B490589			
Hydroxide (OH)	mg/L	<1.0	B490553	<1.0	1.0	B490589			
Sulphate (SO4)	mg/L	26	B490630	24	1.0	B490545			
Physical Properties									
Turbidity	NTU	13	B493872	2.2	0.10	B489387	2.3	0.10	B489387

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C464896
Report Date: 2024/08/27

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CTV219		CTV220		CTV221		
Sampling Date		2024/08/20 08:10		2024/08/20 08:05		2024/08/20 08:05		
COC Number		C#733060-01-01		C#733060-01-01		C#733060-01-01		
	UNITS	CL-5 BTM	QC Batch	CL-6 SFC	QC Batch	CL-6 BTM	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	52	B488371	43	B488371	49	0.50	B488371
Total Hardness (CaCO3)	mg/L	46.4	B487623	40.9	B487623	48.5	0.50	B488379
Misc. Inorganics								
pH	pH	6.27	B490578	6.25	B490578	6.33	N/A	B490601
Total Organic Carbon (C)	mg/L	10	B491699	10	B491699	11	0.50	B491699
Total Suspended Solids	mg/L	<1.0	B491489	1.3	B491489	2.6	1.0	B491491
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	11	B491705	10	B491614	11	0.50	B491705
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B490553	<1.0	B490553	<1.0	1.0	B490589
Alkalinity (Total as CaCO3)	mg/L	30	B490553	28	B490553	29	1.0	B490589
Bicarbonate (HCO3)	mg/L	37	B490553	34	B490553	35	1.0	B490589
Carbonate (CO3)	mg/L	<1.0	B490553	<1.0	B490553	<1.0	1.0	B490589
Hydroxide (OH)	mg/L	<1.0	B490553	<1.0	B490553	<1.0	1.0	B490589
Sulphate (SO4)	mg/L	26	B490542	19	B490630	21	1.0	B490542
Physical Properties								
Turbidity	NTU	3.1	B489387	1.7	B489387	3.3	0.10	B489387

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C464896
Report Date: 2024/08/27

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CTV221			CTV222			CTV222		
Sampling Date		2024/08/20 08:05			2024/08/20 00:00			2024/08/20 00:00		
COC Number		C#733060-01-01			C#733060-01-01			C#733060-01-01		
	UNITS	CL-6 BTM Lab-Dup	RDL	QC Batch	SW-122	RDL	QC Batch	SW-122 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				50	0.50	B488371			
Total Hardness (CaCO3)	mg/L				52.1	0.50	B488379			
Misc. Inorganics										
pH	pH				6.16	N/A	B490578	6.22	N/A	B490578
Total Organic Carbon (C)	mg/L				10	0.50	B491699			
Total Suspended Solids	mg/L	2.4	1.0	B491491	1.4	1.0	B491491			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L				11	0.50	B491614			
Anions										
Alkalinity (PP as CaCO3)	mg/L				<1.0	1.0	B490553	<1.0	1.0	B490553
Alkalinity (Total as CaCO3)	mg/L				27	1.0	B490553	26	1.0	B490553
Bicarbonate (HCO3)	mg/L				33	1.0	B490553	32	1.0	B490553
Carbonate (CO3)	mg/L				<1.0	1.0	B490553	<1.0	1.0	B490553
Hydroxide (OH)	mg/L				<1.0	1.0	B490553	<1.0	1.0	B490553
Sulphate (SO4)	mg/L				28	1.0	B490630			
Physical Properties										
Turbidity	NTU				1.8	0.10	B489387			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C464896
Report Date: 2024/08/27

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CTV223			CTV224			CTV225		
Sampling Date		2024/08/20 00:00			2024/08/20 00:00			2024/08/20 00:00		
COC Number		C#733060-01-01			C#733060-01-01			C#733060-01-01		
	UNITS	SW-123	RDL	QC Batch	SW-124	RDL	QC Batch	TRIP BLANK	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	60	0.50	B488371	80	0.50	B488371	<0.50	0.50	B488371
Total Hardness (CaCO3)	mg/L	59.5	0.50	B488379	78.8	0.50	B488379	<0.50	0.50	B488379
Misc. Inorganics										
pH	pH	6.24	N/A	B490578	6.25	N/A	B490601	5.32	N/A	B490578
Total Organic Carbon (C)	mg/L	11	0.50	B491802	11	0.50	B491699	<0.50	0.50	B491802
Total Suspended Solids	mg/L	1.0	1.0	B491491	1.3	0.99	B491491	<1.0	1.0	B491491
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B492655	12	0.50	B491614	<0.50	0.50	B491705
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B490553	<1.0	1.0	B490589	<1.0	1.0	B490553
Alkalinity (Total as CaCO3)	mg/L	26	1.0	B490553	21	1.0	B490589	<1.0	1.0	B490553
Bicarbonate (HCO3)	mg/L	32	1.0	B490553	26	1.0	B490589	<1.0	1.0	B490553
Carbonate (CO3)	mg/L	<1.0	1.0	B490553	<1.0	1.0	B490589	<1.0	1.0	B490553
Hydroxide (OH)	mg/L	<1.0	1.0	B490553	<1.0	1.0	B490589	<1.0	1.0	B490553
Sulphate (SO4)	mg/L	36	1.0	B490631	60	1.0	B490542	<1.0	1.0	B490631
Physical Properties										
Turbidity	NTU	2.3	0.10	B489387	3.9	0.10	B489387	<0.10	0.10	B489387

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	0.0°C
Package 2	0.1°C
Package 3	0.0°C
Package 4	0.9°C

Sample CTV217 [CL-4 BTM] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CTV213, Elements by ICP-Dissolved-Lab Filtered: Test repeated.
Sample CTV215, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CTV220, Elements by ICP-Dissolved-Lab Filtered: Test repeated.
Sample CTV222, Elements by ICP-Dissolved-Lab Filtered: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B489386	Turbidity	2024/08/23			100	80 - 120	<0.10	NTU	1.7	20
B489387	Turbidity	2024/08/23			102	80 - 120	<0.10	NTU	3.1	20
B490477	Dissolved Barium (Ba)	2024/08/23	100	80 - 120	100	80 - 120	<0.010	mg/L	NC	20
B490477	Dissolved Boron (B)	2024/08/23	96	80 - 120	94	80 - 120	<0.020	mg/L	14	20
B490477	Dissolved Calcium (Ca)	2024/08/23	102	80 - 120	96	80 - 120	<0.30	mg/L	0.50	20
B490477	Dissolved Iron (Fe)	2024/08/23	105	80 - 120	101	80 - 120	<0.060	mg/L	4.9	20
B490477	Dissolved Lithium (Li)	2024/08/23	99	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B490477	Dissolved Magnesium (Mg)	2024/08/23	104	80 - 120	104	80 - 120	<0.20	mg/L	3.5	20
B490477	Dissolved Manganese (Mn)	2024/08/23	104	80 - 120	100	80 - 120	<0.0040	mg/L	NC	20
B490477	Dissolved Phosphorus (P)	2024/08/23	105	80 - 120	102	80 - 120	<0.10	mg/L	NC	20
B490477	Dissolved Potassium (K)	2024/08/23	102	80 - 120	96	80 - 120	<0.30	mg/L	3.5	20
B490477	Dissolved Silicon (Si)	2024/08/23	97	80 - 120	99	80 - 120	<0.50	mg/L	5.6	20
B490477	Dissolved Sodium (Na)	2024/08/23	99	80 - 120	94	80 - 120	<0.50	mg/L	2.6	20
B490477	Dissolved Strontium (Sr)	2024/08/23	97	80 - 120	98	80 - 120	<0.020	mg/L	7.7	20
B490477	Dissolved Sulphur (S)	2024/08/23	103	80 - 120	99	80 - 120	<0.20	mg/L	0.58	20
B490482	Dissolved Barium (Ba)	2024/08/23	68 (1)	80 - 120	100	80 - 120	<0.010	mg/L		
B490482	Dissolved Boron (B)	2024/08/23	89	80 - 120	94	80 - 120	<0.020	mg/L		
B490482	Dissolved Calcium (Ca)	2024/08/23	NC	80 - 120	97	80 - 120	<0.30	mg/L	2.4	20
B490482	Dissolved Iron (Fe)	2024/08/23	104	80 - 120	102	80 - 120	<0.060	mg/L	NC	20
B490482	Dissolved Lithium (Li)	2024/08/23	100	80 - 120	95	80 - 120	<0.020	mg/L		
B490482	Dissolved Manganese (Mn)	2024/08/23	104	80 - 120	101	80 - 120	<0.0040	mg/L	0.63	20
B490482	Dissolved Phosphorus (P)	2024/08/23	106	80 - 120	102	80 - 120	<0.10	mg/L		
B490482	Dissolved Potassium (K)	2024/08/23	102	80 - 120	96	80 - 120	<0.30	mg/L	2.1	20
B490482	Dissolved Silicon (Si)	2024/08/23	97	80 - 120	99	80 - 120	<0.50	mg/L		
B490482	Dissolved Strontium (Sr)	2024/08/23	NC	80 - 120	97	80 - 120	<0.020	mg/L		
B490542	Sulphate (SO4)	2024/08/23	NC	80 - 120	102	80 - 120	<1.0	mg/L	0.38	20
B490545	Sulphate (SO4)	2024/08/23	NC	80 - 120	102	80 - 120	<1.0	mg/L	4.1	20
B490553	Alkalinity (PP as CaCO3)	2024/08/25					<1.0	mg/L	NC	20
B490553	Alkalinity (Total as CaCO3)	2024/08/25			103	80 - 120	<1.0	mg/L	1.4	20
B490553	Bicarbonate (HCO3)	2024/08/25					<1.0	mg/L	1.4	20
B490553	Carbonate (CO3)	2024/08/25					<1.0	mg/L	NC	20
B490553	Hydroxide (OH)	2024/08/25					<1.0	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B490578	pH	2024/08/25			100	97 - 103			1.0	N/A
B490589	Alkalinity (PP as CaCO3)	2024/08/25					<1.0	mg/L	NC	20
B490589	Alkalinity (Total as CaCO3)	2024/08/25			102	80 - 120	<1.0	mg/L	0.45	20
B490589	Bicarbonate (HCO3)	2024/08/25					<1.0	mg/L	0.45	20
B490589	Carbonate (CO3)	2024/08/25					<1.0	mg/L	NC	20
B490589	Hydroxide (OH)	2024/08/25					<1.0	mg/L	NC	20
B490601	pH	2024/08/25			100	97 - 103			0.21	N/A
B490630	Sulphate (SO4)	2024/08/23	84	80 - 120	104	80 - 120	<1.0	mg/L	0.15	20
B490631	Sulphate (SO4)	2024/08/23	86	80 - 120	100	80 - 120	<1.0	mg/L	0.67	20
B490920	Total Aluminum (Al)	2024/08/25	NC	80 - 120	109	80 - 120	<0.0030	mg/L	2.0	20
B490920	Total Antimony (Sb)	2024/08/25	95	80 - 120	86	80 - 120	<0.00060	mg/L	NC	20
B490920	Total Arsenic (As)	2024/08/25	99	80 - 120	84	80 - 120	<0.00020	mg/L	NC	20
B490920	Total Beryllium (Be)	2024/08/25	97	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B490920	Total Chromium (Cr)	2024/08/25	98	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B490920	Total Cobalt (Co)	2024/08/25	98	80 - 120	101	80 - 120	<0.00030	mg/L	7.1	20
B490920	Total Copper (Cu)	2024/08/25	96	80 - 120	98	80 - 120	<0.0010	mg/L	2.7	20
B490920	Total Lead (Pb)	2024/08/25	96	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B490920	Total Molybdenum (Mo)	2024/08/25	100	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B490920	Total Nickel (Ni)	2024/08/25	97	80 - 120	100	80 - 120	<0.00050	mg/L	4.4	20
B490920	Total Selenium (Se)	2024/08/25	103	80 - 120	81	80 - 120	<0.00020	mg/L	NC	20
B490920	Total Silver (Ag)	2024/08/25	98	80 - 120	95	80 - 120	<0.00010	mg/L	NC	20
B490920	Total Thallium (Tl)	2024/08/25	74 (1)	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B490920	Total Tin (Sn)	2024/08/25	100	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B490920	Total Titanium (Ti)	2024/08/25	86	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B490920	Total Uranium (U)	2024/08/25	101	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B490920	Total Vanadium (V)	2024/08/25	100	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B490920	Total Zinc (Zn)	2024/08/25	106	80 - 120	81	80 - 120	<0.0030	mg/L	0.067	20
B490921	Total Barium (Ba)	2024/08/26	92	80 - 120	94	80 - 120	<0.010	mg/L	2.1	20
B490921	Total Boron (B)	2024/08/26	91	80 - 120	90	80 - 120	<0.020	mg/L	4.7	20
B490921	Total Calcium (Ca)	2024/08/26	NC	80 - 120	97	80 - 120	<0.30	mg/L	1.5	20
B490921	Total Iron (Fe)	2024/08/26	NC	80 - 120	101	80 - 120	<0.060	mg/L	2.0	20
B490921	Total Lithium (Li)	2024/08/26	84	80 - 120	85	80 - 120	<0.020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B490921	Total Magnesium (Mg)	2024/08/26	NC	80 - 120	91	80 - 120	<0.20	mg/L	1.8	20
B490921	Total Manganese (Mn)	2024/08/26	92	80 - 120	92	80 - 120	<0.0040	mg/L	1.5	20
B490921	Total Phosphorus (P)	2024/08/26	94	80 - 120	92	80 - 120	<0.10	mg/L	NC	20
B490921	Total Potassium (K)	2024/08/26	NC	80 - 120	91	80 - 120	<0.30	mg/L	1.9	20
B490921	Total Silicon (Si)	2024/08/26	NC	80 - 120	89	80 - 120	<0.50	mg/L	1.9	20
B490921	Total Sodium (Na)	2024/08/26	NC	80 - 120	97	80 - 120	<0.50	mg/L	1.7	20
B490921	Total Strontium (Sr)	2024/08/26	85	80 - 120	89	80 - 120	<0.020	mg/L	1.8	20
B490921	Total Sulphur (S)	2024/08/26	NC	80 - 120	90	80 - 120	<0.20	mg/L	0.25	20
B491169	Dissolved Aluminum (Al)	2024/08/25	103	80 - 120	100	80 - 120	<0.0030	mg/L	7.6	20
B491169	Dissolved Antimony (Sb)	2024/08/25	103	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20
B491169	Dissolved Arsenic (As)	2024/08/25	100	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B491169	Dissolved Beryllium (Be)	2024/08/25	98	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B491169	Dissolved Chromium (Cr)	2024/08/25	99	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B491169	Dissolved Cobalt (Co)	2024/08/25	100	80 - 120	97	80 - 120	<0.00030	mg/L	NC	20
B491169	Dissolved Copper (Cu)	2024/08/25	99	80 - 120	98	80 - 120	<0.0010	mg/L	5.3	20
B491169	Dissolved Lead (Pb)	2024/08/25	99	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B491169	Dissolved Molybdenum (Mo)	2024/08/25	100	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B491169	Dissolved Nickel (Ni)	2024/08/25	100	80 - 120	98	80 - 120	<0.00050	mg/L	4.2	20
B491169	Dissolved Selenium (Se)	2024/08/25	103	80 - 120	109	80 - 120	<0.00020	mg/L	1.7	20
B491169	Dissolved Silver (Ag)	2024/08/25	98	80 - 120	96	80 - 120	<0.00010	mg/L	NC	20
B491169	Dissolved Thallium (Tl)	2024/08/25	99	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B491169	Dissolved Tin (Sn)	2024/08/25	99	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B491169	Dissolved Titanium (Ti)	2024/08/25	94	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B491169	Dissolved Uranium (U)	2024/08/25	99	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B491169	Dissolved Vanadium (V)	2024/08/25	102	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B491169	Dissolved Zinc (Zn)	2024/08/25	NC	80 - 120	96	80 - 120	<0.0030	mg/L	2.7	20
B491170	Dissolved Aluminum (Al)	2024/08/25	97	80 - 120	105	80 - 120	<0.0030	mg/L	18	20
B491170	Dissolved Antimony (Sb)	2024/08/25	102	80 - 120	106	80 - 120	<0.00060	mg/L	NC	20
B491170	Dissolved Arsenic (As)	2024/08/25	100	80 - 120	101	80 - 120	<0.00020	mg/L	3.7	20
B491170	Dissolved Beryllium (Be)	2024/08/25	95	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B491170	Dissolved Chromium (Cr)	2024/08/25	94	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B491170	Dissolved Cobalt (Co)	2024/08/25	96	80 - 120	99	80 - 120	<0.00030	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B491170	Dissolved Copper (Cu)	2024/08/25	95	80 - 120	98	80 - 120	<0.0010	mg/L	1.1	20
B491170	Dissolved Lead (Pb)	2024/08/25	95	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B491170	Dissolved Molybdenum (Mo)	2024/08/25	99	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B491170	Dissolved Nickel (Ni)	2024/08/25	97	80 - 120	98	80 - 120	<0.00050	mg/L	14	20
B491170	Dissolved Selenium (Se)	2024/08/25	105	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B491170	Dissolved Silver (Ag)	2024/08/25	97	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B491170	Dissolved Thallium (Tl)	2024/08/25	94	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B491170	Dissolved Tin (Sn)	2024/08/25	100	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B491170	Dissolved Titanium (Ti)	2024/08/25	92	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B491170	Dissolved Uranium (U)	2024/08/25	96	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B491170	Dissolved Vanadium (V)	2024/08/25	97	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B491170	Dissolved Zinc (Zn)	2024/08/25	100	80 - 120	98	80 - 120	<0.0030	mg/L	1.1	20
B491184	Dissolved Barium (Ba)	2024/08/26	99	80 - 120	101	80 - 120	<0.010	mg/L		
B491184	Dissolved Boron (B)	2024/08/26	99	80 - 120	100	80 - 120	<0.020	mg/L		
B491184	Dissolved Calcium (Ca)	2024/08/25	96	80 - 120	103	80 - 120	<0.30	mg/L	2.0	20
B491184	Dissolved Iron (Fe)	2024/08/25	105	80 - 120	106	80 - 120	<0.060	mg/L	NC	20
B491184	Dissolved Lithium (Li)	2024/08/26	97	80 - 120	102	80 - 120	<0.020	mg/L		
B491184	Dissolved Magnesium (Mg)	2024/08/25	100	80 - 120	105	80 - 120	<0.20	mg/L	2.0	20
B491184	Dissolved Manganese (Mn)	2024/08/25	101	80 - 120	104	80 - 120	<0.0040	mg/L	NC	20
B491184	Dissolved Phosphorus (P)	2024/08/26	103	80 - 120	102	80 - 120	<0.10	mg/L		
B491184	Dissolved Potassium (K)	2024/08/25	99	80 - 120	103	80 - 120	<0.30	mg/L	1.6	20
B491184	Dissolved Silicon (Si)	2024/08/26	94	80 - 120	99	80 - 120	<0.50	mg/L		
B491184	Dissolved Sodium (Na)	2024/08/25	99	80 - 120	105	80 - 120	<0.50	mg/L	1.7	20
B491184	Dissolved Strontium (Sr)	2024/08/26	97	80 - 120	99	80 - 120	<0.020	mg/L		
B491184	Dissolved Sulphur (S)	2024/08/26	103	80 - 120	100	80 - 120	<0.20	mg/L		
B491186	Dissolved Barium (Ba)	2024/08/25	96	80 - 120	102	80 - 120	<0.010	mg/L		
B491186	Dissolved Boron (B)	2024/08/25	96	80 - 120	97	80 - 120	<0.020	mg/L		
B491186	Dissolved Calcium (Ca)	2024/08/25	NC	80 - 120	101	80 - 120	<0.30	mg/L	1.6	20
B491186	Dissolved Iron (Fe)	2024/08/25	101	80 - 120	107	80 - 120	<0.060	mg/L	NC	20
B491186	Dissolved Lithium (Li)	2024/08/25	96	80 - 120	100	80 - 120	<0.020	mg/L		
B491186	Dissolved Magnesium (Mg)	2024/08/25	94	80 - 120	104	80 - 120	<0.20	mg/L	2.5	20
B491186	Dissolved Manganese (Mn)	2024/08/25	96	80 - 120	104	80 - 120	<0.0040	mg/L	6.4	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B491186	Dissolved Phosphorus (P)	2024/08/25	101	80 - 120	101	80 - 120	<0.10	mg/L		
B491186	Dissolved Potassium (K)	2024/08/25	97	80 - 120	99	80 - 120	<0.30	mg/L	0.76	20
B491186	Dissolved Silicon (Si)	2024/08/25	94	80 - 120	100	80 - 120	<0.50	mg/L		
B491186	Dissolved Sodium (Na)	2024/08/25	NC	80 - 120	101	80 - 120	<0.50	mg/L	1.1	20
B491186	Dissolved Strontium (Sr)	2024/08/25	92	80 - 120	100	80 - 120	<0.020	mg/L		
B491186	Dissolved Sulphur (S)	2024/08/25	99	80 - 120	101	80 - 120	<0.20	mg/L		
B491187	Dissolved Barium (Ba)	2024/08/25	106	80 - 120	103	80 - 120	<0.010	mg/L		
B491187	Dissolved Boron (B)	2024/08/25	100	80 - 120	97	80 - 120	<0.020	mg/L		
B491187	Dissolved Calcium (Ca)	2024/08/25	104	80 - 120	102	80 - 120	<0.30	mg/L	2.2	20
B491187	Dissolved Iron (Fe)	2024/08/25	108	80 - 120	106	80 - 120	<0.060	mg/L	NC	20
B491187	Dissolved Lithium (Li)	2024/08/25	104	80 - 120	101	80 - 120	<0.020	mg/L		
B491187	Dissolved Magnesium (Mg)	2024/08/25	108	80 - 120	104	80 - 120	<0.20	mg/L	2.1	20
B491187	Dissolved Manganese (Mn)	2024/08/25	106	80 - 120	103	80 - 120	<0.0040	mg/L	NC	20
B491187	Dissolved Phosphorus (P)	2024/08/25	106	80 - 120	101	80 - 120	<0.10	mg/L		
B491187	Dissolved Potassium (K)	2024/08/25	104	80 - 120	100	80 - 120	<0.30	mg/L	5.8	20
B491187	Dissolved Silicon (Si)	2024/08/25	101	80 - 120	100	80 - 120	<0.50	mg/L		
B491187	Dissolved Sodium (Na)	2024/08/25	105	80 - 120	102	80 - 120	<0.50	mg/L	2.4	20
B491187	Dissolved Strontium (Sr)	2024/08/25	104	80 - 120	101	80 - 120	<0.020	mg/L		
B491187	Dissolved Sulphur (S)	2024/08/25	100	80 - 120	99	80 - 120	<0.20	mg/L		
B491487	Total Suspended Solids	2024/08/26	99	80 - 120	95	80 - 120	<1.0	mg/L	NC	20
B491489	Total Suspended Solids	2024/08/26	96	80 - 120	97	80 - 120	<1.0	mg/L	NC	20
B491491	Total Suspended Solids	2024/08/26	93	80 - 120	90	80 - 120	<0.99	mg/L	8.0	20
B491614	Dissolved Organic Carbon (C)	2024/08/26	NC	75 - 125	103	80 - 120	<0.50	mg/L	0.31	20
B491699	Total Organic Carbon (C)	2024/08/26	99	75 - 125	100	80 - 120	<0.50	mg/L		
B491705	Dissolved Organic Carbon (C)	2024/08/26	96	75 - 125	105	80 - 120	<0.50	mg/L	6.3	20
B491744	Total Aluminum (Al)	2024/08/26	83	80 - 120	94	80 - 120	<0.0030	mg/L	7.6	20
B491744	Total Antimony (Sb)	2024/08/26	97	80 - 120	96	80 - 120	<0.00060	mg/L	NC	20
B491744	Total Arsenic (As)	2024/08/26	94	80 - 120	98	80 - 120	<0.00020	mg/L	17	20
B491744	Total Beryllium (Be)	2024/08/26	90	80 - 120	92	80 - 120	<0.0010	mg/L	NC	20
B491744	Total Chromium (Cr)	2024/08/26	90	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B491744	Total Cobalt (Co)	2024/08/26	90	80 - 120	94	80 - 120	<0.00030	mg/L	NC	20
B491744	Total Copper (Cu)	2024/08/26	88	80 - 120	93	80 - 120	<0.0010	mg/L	9.8	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B491744	Total Lead (Pb)	2024/08/26	92	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B491744	Total Molybdenum (Mo)	2024/08/26	94	80 - 120	92	80 - 120	<0.00020	mg/L	11	20
B491744	Total Nickel (Ni)	2024/08/26	90	80 - 120	93	80 - 120	<0.00050	mg/L	5.3	20
B491744	Total Selenium (Se)	2024/08/26	96	80 - 120	99	80 - 120	<0.00020	mg/L	14	20
B491744	Total Silver (Ag)	2024/08/26	90	80 - 120	92	80 - 120	<0.00010	mg/L	NC	20
B491744	Total Thallium (Tl)	2024/08/26	92	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B491744	Total Tin (Sn)	2024/08/26	94	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B491744	Total Titanium (Ti)	2024/08/26	90	80 - 120	87	80 - 120	<0.0010	mg/L	14	20
B491744	Total Uranium (U)	2024/08/26	93	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B491744	Total Vanadium (V)	2024/08/26	93	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B491744	Total Zinc (Zn)	2024/08/26	84	80 - 120	99	80 - 120	<0.0030	mg/L	9.2	20
B491746	Total Barium (Ba)	2024/08/26	94	80 - 120	93	80 - 120	<0.010	mg/L	NC	20
B491746	Total Boron (B)	2024/08/26	94	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B491746	Total Calcium (Ca)	2024/08/26	103	80 - 120	101	80 - 120	<0.30	mg/L	0.14	20
B491746	Total Iron (Fe)	2024/08/26	NC	80 - 120	102	80 - 120	<0.060	mg/L	2.0	20
B491746	Total Lithium (Li)	2024/08/26	90	80 - 120	89	80 - 120	<0.020	mg/L	NC	20
B491746	Total Magnesium (Mg)	2024/08/26	95	80 - 120	94	80 - 120	<0.20	mg/L	0.38	20
B491746	Total Manganese (Mn)	2024/08/26	93	80 - 120	93	80 - 120	<0.0040	mg/L	2.3	20
B491746	Total Phosphorus (P)	2024/08/26	96	80 - 120	96	80 - 120	<0.10	mg/L	NC	20
B491746	Total Potassium (K)	2024/08/26	96	80 - 120	95	80 - 120	<0.30	mg/L	1.3	20
B491746	Total Silicon (Si)	2024/08/26	93	80 - 120	94	80 - 120	<0.50	mg/L	1.0	20
B491746	Total Sodium (Na)	2024/08/26	101	80 - 120	102	80 - 120	<0.50	mg/L	0.23	20
B491746	Total Strontium (Sr)	2024/08/26	90	80 - 120	90	80 - 120	<0.020	mg/L	0.66	20
B491746	Total Sulphur (S)	2024/08/26	94	80 - 120	94	80 - 120	<0.20	mg/L	1.4	20
B491802	Total Organic Carbon (C)	2024/08/26	88	75 - 125	100	80 - 120	<0.50	mg/L	4.5	20
B491841	Total Aluminum (Al)	2024/08/26	109	80 - 120	109	80 - 120	<0.0030	mg/L	1.6	20
B491841	Total Antimony (Sb)	2024/08/26	93	80 - 120	120	80 - 120	<0.00060	mg/L	NC	20
B491841	Total Arsenic (As)	2024/08/26	95	80 - 120	118	80 - 120	<0.00020	mg/L	0.25	20
B491841	Total Beryllium (Be)	2024/08/26	101	80 - 120	109	80 - 120	<0.0010	mg/L	NC	20
B491841	Total Chromium (Cr)	2024/08/26	101	80 - 120	112	80 - 120	<0.0010	mg/L	5.5	20
B491841	Total Cobalt (Co)	2024/08/26	101	80 - 120	112	80 - 120	<0.00030	mg/L	12	20
B491841	Total Copper (Cu)	2024/08/26	96	80 - 120	111	80 - 120	<0.0010	mg/L	16	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B491841	Total Lead (Pb)	2024/08/26	96	80 - 120	116	80 - 120	<0.00020	mg/L	0.078	20
B491841	Total Molybdenum (Mo)	2024/08/26	102	80 - 120	113	80 - 120	<0.00020	mg/L	0.45	20
B491841	Total Nickel (Ni)	2024/08/26	98	80 - 120	111	80 - 120	<0.00050	mg/L	7.5	20
B491841	Total Selenium (Se)	2024/08/26	89	80 - 120	123 (1)	80 - 120	<0.00020	mg/L	NC	20
B491841	Total Silver (Ag)	2024/08/26	98	80 - 120	110	80 - 120	<0.00010	mg/L	NC	20
B491841	Total Thallium (Tl)	2024/08/26	99	80 - 120	119	80 - 120	<0.00020	mg/L	NC	20
B491841	Total Tin (Sn)	2024/08/26	98	80 - 120	113	80 - 120	<0.0010	mg/L	NC	20
B491841	Total Titanium (Ti)	2024/08/26	100	80 - 120	110	80 - 120	<0.0010	mg/L	8.1	20
B491841	Total Uranium (U)	2024/08/26	104	80 - 120	118	80 - 120	<0.00010	mg/L	5.2	20
B491841	Total Vanadium (V)	2024/08/26	104	80 - 120	115	80 - 120	<0.0010	mg/L	6.3	20
B491841	Total Zinc (Zn)	2024/08/26	85	80 - 120	117	80 - 120	<0.0030	mg/L	1.1	20
B491848	Total Barium (Ba)	2024/08/26	90	80 - 120	100	80 - 120	<0.010	mg/L	4.1	20
B491848	Total Boron (B)	2024/08/26	95	80 - 120	98	80 - 120	<0.020	mg/L	1.6	20
B491848	Total Calcium (Ca)	2024/08/26	NC	80 - 120	103	80 - 120	<0.30	mg/L	5.9	20
B491848	Total Iron (Fe)	2024/08/26	NC	80 - 120	108	80 - 120	<0.060	mg/L	3.2	20
B491848	Total Lithium (Li)	2024/08/26	98	80 - 120	102	80 - 120	<0.020	mg/L	6.4	20
B491848	Total Magnesium (Mg)	2024/08/26	NC	80 - 120	104	80 - 120	<0.20	mg/L	7.0	20
B491848	Total Manganese (Mn)	2024/08/26	107	80 - 120	105	80 - 120	<0.0040	mg/L	3.4	20
B491848	Total Phosphorus (P)	2024/08/26	105	80 - 120	101	80 - 120	<0.10	mg/L	3.7	20
B491848	Total Potassium (K)	2024/08/26	NC	80 - 120	102	80 - 120	<0.30	mg/L	5.8	20
B491848	Total Silicon (Si)	2024/08/26	131 (1)	80 - 120	101	80 - 120	<0.50	mg/L	1.5	20
B491848	Total Sodium (Na)	2024/08/26	NC	80 - 120	103	80 - 120	<0.50	mg/L	5.5	20
B491848	Total Strontium (Sr)	2024/08/26	84	80 - 120	97	80 - 120	<0.020	mg/L	4.7	20
B491848	Total Sulphur (S)	2024/08/26	NC	80 - 120	101	80 - 120	<0.20	mg/L	3.3	20
B492255	Dissolved Lead (Pb)	2024/08/26	84	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B492262	Total Aluminum (Al)	2024/08/27	111	80 - 120	107	80 - 120	<0.0030	mg/L	4.6	20
B492262	Total Antimony (Sb)	2024/08/27	111	80 - 120	111	80 - 120	<0.00060	mg/L	NC	20
B492262	Total Arsenic (As)	2024/08/27	110	80 - 120	111	80 - 120	<0.00020	mg/L	1.2	20
B492262	Total Beryllium (Be)	2024/08/27	106	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20
B492262	Total Chromium (Cr)	2024/08/27	107	80 - 120	109	80 - 120	<0.0010	mg/L	0.78	20
B492262	Total Cobalt (Co)	2024/08/27	107	80 - 120	110	80 - 120	<0.00030	mg/L	0.64	20
B492262	Total Copper (Cu)	2024/08/27	NC	80 - 120	109	80 - 120	<0.0010	mg/L	1.8	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B492262	Total Lead (Pb)	2024/08/27	108	80 - 120	111	80 - 120	<0.00020	mg/L	8.4	20
B492262	Total Molybdenum (Mo)	2024/08/27	112	80 - 120	108	80 - 120	<0.00020	mg/L	4.4	20
B492262	Total Nickel (Ni)	2024/08/27	105	80 - 120	109	80 - 120	<0.00050	mg/L	1.8	20
B492262	Total Selenium (Se)	2024/08/27	109	80 - 120	112	80 - 120	<0.00020	mg/L	16	20
B492262	Total Silver (Ag)	2024/08/27	107	80 - 120	108	80 - 120	<0.00010	mg/L	NC	20
B492262	Total Thallium (Tl)	2024/08/27	112	80 - 120	112	80 - 120	<0.00020	mg/L	NC	20
B492262	Total Tin (Sn)	2024/08/27	112	80 - 120	111	80 - 120	<0.0010	mg/L	3.6	20
B492262	Total Titanium (Ti)	2024/08/27	107	80 - 120	106	80 - 120	<0.0010	mg/L	10	20
B492262	Total Uranium (U)	2024/08/27	110	80 - 120	111	80 - 120	<0.00010	mg/L	0.36	20
B492262	Total Vanadium (V)	2024/08/27	109	80 - 120	111	80 - 120	<0.0010	mg/L	1.9	20
B492262	Total Zinc (Zn)	2024/08/27	109	80 - 120	113	80 - 120	<0.0030	mg/L	8.5	20
B492271	Total Barium (Ba)	2024/08/27	99	80 - 120	99	80 - 120	<0.010	mg/L	0.49	20
B492271	Total Boron (B)	2024/08/27	97	80 - 120	96	80 - 120	<0.020	mg/L	NC	20
B492271	Total Calcium (Ca)	2024/08/27	95	80 - 120	95	80 - 120	<0.30	mg/L	0.0051	20
B492271	Total Iron (Fe)	2024/08/27	NC	80 - 120	95	80 - 120	<0.060	mg/L	7.8	20
B492271	Total Lithium (Li)	2024/08/27	90	80 - 120	90	80 - 120	<0.020	mg/L	NC	20
B492271	Total Magnesium (Mg)	2024/08/27	93	80 - 120	92	80 - 120	<0.20	mg/L	0.95	20
B492271	Total Manganese (Mn)	2024/08/27	97	80 - 120	95	80 - 120	<0.0040	mg/L	2.0	20
B492271	Total Phosphorus (P)	2024/08/27	95	80 - 120	95	80 - 120	<0.10	mg/L	NC	20
B492271	Total Potassium (K)	2024/08/27	94	80 - 120	94	80 - 120	<0.30	mg/L	0.89	20
B492271	Total Silicon (Si)	2024/08/27	93	80 - 120	93	80 - 120	<0.50	mg/L	2.3	20
B492271	Total Sodium (Na)	2024/08/27	95	80 - 120	94	80 - 120	<0.50	mg/L	0.51	20
B492271	Total Strontium (Sr)	2024/08/27	95	80 - 120	97	80 - 120	<0.020	mg/L	1.9	20
B492271	Total Sulphur (S)	2024/08/27	94	80 - 120	93	80 - 120	<0.20	mg/L	0.14	20
B492601	Total Suspended Solids	2024/08/27	100	80 - 120	98	80 - 120	<1.0	mg/L	5.3	20
B492655	Dissolved Organic Carbon (C)	2024/08/27	NC	75 - 125	96	80 - 120	<0.50	mg/L	5.4	20
B493101	Dissolved Magnesium (Mg)	2024/08/27	95	80 - 120	91	80 - 120	<0.20	mg/L	0.76	20
B493101	Dissolved Sodium (Na)	2024/08/27	94	80 - 120	92	80 - 120	<0.50	mg/L	0.026	20
B493101	Dissolved Sulphur (S)	2024/08/27	99	80 - 120	90	80 - 120	<0.20	mg/L		

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B493872	Turbidity	2024/08/27			101	80 - 120	<0.10	NTU	8.2	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

C464896
2024/08/21 11:40

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins, Rachel Dyck	P.O. #			733060
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#733060-01-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By	BRP TJK		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10ºC) from time of sampling until delivery to Bureau Veritas

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		SC-1	24/08/20	10:35	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		SB-1		9:25				X	X	X	X	X	X	X	X	X	X		
3		SB-2		9:20				X	X	X	X	X	X	X	X	X	X		
4		CB-1		9:30				X	X	X	X	X	X	X	X	X	X		
5		CB-2		9:35				X	X	X	X	X	X	X	X	X	X		
6		EB-1		9:40				X	X	X	X	X	X	X	X	X	X		
7		EB-2		9:45				X	X	X	X	X	X	X	X	X	X		
8		NB-1		9:55				X	X	X	X	X	X	X	X	X	X		
9		NB-2		9:50				X	X	X	X	X	X	X	X	X	X		
10		CLD		10:00				X	X	X	X	X	X	X	X	X	X		

Analysis Requested

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

MCAL-2024-08-2361

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Bailey Patrin	24/08/21	11:45	Gio Satmoin	24/08/21	11:40	
			Shaica Cura	24/08/22	09:00	

Lab Use Only: Time Sensitive ☐ | Temperature (ºC) on Receipt: A.C.T.R | Custody Seal Intact on Cooler? ☐ Yes ☐ No

MOPL: See ACTR

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

C464896
2024/08/21 11:40

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins, Rachel Dyck	P.O. #			733060
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#733060-02-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By	BRP / JK		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times.

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10ºC) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-3 SFC	24/08/20	8:35	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		CL-3 BTM		8:35				X	X	X	X	X	X	X	X	X	X		
3		CL-7 SFC		8:45				X	X	X	X	X	X	X	X	X	X		
4		CL-7 BTM		8:45				X	X	X	X	X	X	X	X	X	X		
5		CL-8 SFC		8:25				X	X	X	X	X	X	X	X	X	X		
6		CL-8 BTM		8:25				X	X	X	X	X	X	X	X	X	X		
7		CL-2 SFC		8:50				X	X	X	X	X	X	X	X	X	X		
8		CL-2 BTM		8:50				X	X	X	X	X	X	X	X	X	X		
9		CL-4 SFC		8:20				X	X	X	X	X	X	X	X	X	X		
10		CL-4 BTM		8:20				X	X	X	X	X	X	X	X	X	X		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (ºC) on Receipt	Custody Seal Intact on Cooler?
Bailey Pazdzik BP	24/08/21	11:45	Gio Gabingan	24/08/21	11:46			A.C.T. R	Yes / No
			Shaira Cuya	2024/08/22	09:00				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

MOM: SEPACTR

White: Bureau Veritas Yellow: Client

C464896
2024/08/21 11:40

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins, Rachel Dyck	P.O. #			733060
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#733060-03-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By	BRP / JK		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times.

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10ºC) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-5 SFC	24/08/20	8:10	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		CL-5 BTM		8:10				X	X	X	X	X	X	X	X	X	X		
3		CL-6 SFC		8:05				X	X	X	X	X	X	X	X	X	X		
4		CL-6 BTM		8:05				X	X	X	X	X	X	X	X	X	X		
5		SW-122		AM				X	X	X	X	X	X	X	X	X	X		
6		SW-123		AM				X	X	X	X	X	X	X	X	X	X		
7		SW-124		AM				X	X	X	X	X	X	X	X	X	X		
8		Trip Blank	—	—	—			X	X	X	X	X	X	X	X	X	X		
9																			
10																			

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Bailey Pazuik BP	24/08/21	11:45	Gis + Bio Satmgin	24/08/21	13:40			A.C.T.R	Yes / No
			Shaira Cura	2024/08/22	09:00				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#734342-01-01, 734342-02-01, 734342-03-01

Report Date: 2024/09/13
Report #: R3555638
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C469709
Received: 2024/09/05, 11:30

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	28	N/A	2024/09/09	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	28	N/A	2024/09/09		Auto Calc
Cadmium - low level CCME (Total) (1)	28	N/A	2024/09/12		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	28	N/A	2024/09/08	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	11	N/A	2024/09/10	AB SOP-00087	MMCW 119 1996 m
Carbon (DOC) -Lab Filtered (1, 2)	17	N/A	2024/09/09	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	13	N/A	2024/09/11		Auto Calc
Hardness (1)	3	N/A	2024/09/12		Auto Calc
Hardness (1)	5	N/A	2024/09/08		Auto Calc
Hardness (1)	7	N/A	2024/09/09		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	23	N/A	2024/09/12	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	5	N/A	2024/09/13	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	5	N/A	2024/09/08	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 4)	23	N/A	2024/09/09	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	16	2024/09/11	2024/09/11	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	12	2024/09/11	2024/09/12	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	28	N/A	2024/09/09	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	16	2024/09/11	2024/09/11	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	12	2024/09/11	2024/09/12	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	28	N/A	2024/09/09	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	25	N/A	2024/09/10	AB SOP-00087	MMCW 119 1996 m
Carbon (Total Organic) (1, 7)	3	N/A	2024/09/11	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	18	2024/09/10	2024/09/10	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	10	2024/09/09	2024/09/10	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	28	N/A	2024/09/06	CAL SOP-00081	SM 24 2130 B m

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#734342-01-01, 734342-02-01, 734342-03-01

Report Date: 2024/09/13
Report #: R3555638
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C469709
Received: 2024/09/05, 11:30

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.

(7) TOC present in the sample should be considered as non-purgeable TOC.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: C#734342-01-01, 734342-02-01, 734342-03-01

Report Date: 2024/09/13
Report #: R3555638
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C469709
Received: 2024/09/05, 11:30

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU889			CUU889			CUU890		
Sampling Date		2024/09/04 12:35			2024/09/04 12:35			2024/09/04 11:20		
COC Number		734342-01-01			734342-01-01			734342-01-01		
	UNITS	SC-1	RDL	QC Batch	SC-1 Lab-Dup	RDL	QC Batch	SB-1	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.11	0.020	B505424				0.23	0.020	B505424
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.023	0.0030	B507692				0.025	0.0030	B507692
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B507692				<0.00060	0.00060	B507692
Dissolved Arsenic (As)	mg/L	0.00050	0.00020	B507692				0.00034	0.00020	B507692
Dissolved Barium (Ba)	mg/L	<0.010	0.010	B507654	<0.010	0.010	B507654	<0.010	0.010	B507654
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B507692				<0.0010	0.0010	B507692
Dissolved Boron (B)	mg/L	<0.020	0.020	B507654	<0.020	0.020	B507654	<0.020	0.020	B507654
Dissolved Calcium (Ca)	mg/L	9.6	0.30	B507654	9.6	0.30	B507654	27	0.30	B507654
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B507692				<0.0010	0.0010	B507692
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B507692				<0.00030	0.00030	B507692
Dissolved Copper (Cu)	mg/L	0.0057	0.0010	B507692				0.012	0.0010	B507692
Dissolved Iron (Fe)	mg/L	0.24	0.060	B507654	0.24	0.060	B507654	3.7	0.060	B507654
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B507692				<0.00020	0.00020	B507692
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B507654	<0.020	0.020	B507654	<0.020	0.020	B507654
Dissolved Magnesium (Mg)	mg/L	3.0	0.20	B507654	3.0	0.20	B507654	5.5	0.20	B507654
Dissolved Manganese (Mn)	mg/L	0.0087	0.0040	B507654	0.0087	0.0040	B507654	0.0061	0.0040	B507654
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B507692				0.0017	0.00020	B507692
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B507692				0.00076	0.00050	B507692
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B507654	<0.10	0.10	B507654	<0.10	0.10	B507654
Dissolved Potassium (K)	mg/L	1.6	0.30	B507654	1.6	0.30	B507654	3.0	0.30	B507654
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B507692				<0.00020	0.00020	B507692
Dissolved Silicon (Si)	mg/L	1.2	0.50	B507654	1.2	0.50	B507654	0.79	0.50	B507654
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B507692				<0.00010	0.00010	B507692
Dissolved Sodium (Na)	mg/L	2.9	0.50	B507654	3.0	0.50	B507654	2.8	0.50	B507654
Dissolved Strontium (Sr)	mg/L	0.023	0.020	B507654	0.023	0.020	B507654	0.036	0.020	B507654
Dissolved Sulphur (S)	mg/L	1.5	0.20	B507654	1.5	0.20	B507654	23	0.20	B507654
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B507692				<0.00020	0.00020	B507692
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B507692				<0.0010	0.0010	B507692
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B507692				<0.0010	0.0010	B507692
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B507692				<0.00010	0.00010	B507692

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU889			CUU889			CUU890		
Sampling Date		2024/09/04 12:35			2024/09/04 12:35			2024/09/04 11:20		
COC Number		734342-01-01			734342-01-01			734342-01-01		
	UNITS	**SC-1**	**RDL**	**QC Batch**	**SC-1 Lab-Dup**	**RDL**	**QC Batch**	**SB-1**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B507692				<0.0010	0.0010	B507692
Dissolved Zinc (Zn)	mg/L	0.066	0.0030	B507692				0.071	0.0030	B507692

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU891		CUU892		CUU893		CUU894		
Sampling Date		2024/09/04 11:15		2024/09/04 11:25		2024/09/04 11:30		2024/09/04 11:35		
COC Number		734342-01-01		734342-01-01		734342-01-01		734342-01-01		
	UNITS	SB-2	QC Batch	CB-1	QC Batch	CB-2	QC Batch	EB-1	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.21	B505424	0.24	B505424	0.21	B505424	0.28	0.020	B505424
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.024	B507692	0.025	B507692	0.022	B507692	0.024	0.0030	B507692
Dissolved Antimony (Sb)	mg/L	<0.00060	B507692	<0.00060	B507692	<0.00060	B507692	<0.00060	0.00060	B507692
Dissolved Arsenic (As)	mg/L	0.00040	B507692	0.00036	B507692	0.00034	B507692	0.00032	0.00020	B507692
Dissolved Barium (Ba)	mg/L	0.010	B508677	<0.010	B507654	<0.010	B507654	0.014	0.010	B508108
Dissolved Beryllium (Be)	mg/L	<0.0010	B507692	<0.0010	B507692	<0.0010	B507692	<0.0010	0.0010	B507692
Dissolved Boron (B)	mg/L	<0.020	B508677	<0.020	B507654	<0.020	B507654	<0.020	0.020	B508108
Dissolved Calcium (Ca)	mg/L	27	B508677	28	B507654	29	B507654	36	0.30	B508108
Dissolved Chromium (Cr)	mg/L	<0.0010	B507692	<0.0010	B507692	<0.0010	B507692	<0.0010	0.0010	B507692
Dissolved Cobalt (Co)	mg/L	<0.00030	B507692	<0.00030	B507692	<0.00030	B507692	<0.00030	0.00030	B507692
Dissolved Copper (Cu)	mg/L	0.012	B507692	0.012	B507692	0.011	B507692	0.013	0.0010	B507692
Dissolved Iron (Fe)	mg/L	3.9	B508677	3.5	B507654	3.5	B507654	2.1	0.060	B508108
Dissolved Lead (Pb)	mg/L	0.00033	B507692	<0.00020	B507692	<0.00020	B507692	<0.00020	0.00020	B507692
Dissolved Lithium (Li)	mg/L	<0.020	B508677	<0.020	B507654	<0.020	B507654	<0.020	0.020	B508108
Dissolved Magnesium (Mg)	mg/L	5.3	B508677	5.5	B507654	5.6	B507654	6.4	0.20	B508108
Dissolved Manganese (Mn)	mg/L	0.0050	B508677	0.0071	B507654	0.0067	B507654	<0.0040	0.0040	B508108
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B507692	<0.00020	B507692	<0.00020	B513844	0.00022	0.00020	B507692
Dissolved Nickel (Ni)	mg/L	0.00087	B507692	0.00084	B507692	0.00067	B507692	0.00082	0.00050	B507692
Dissolved Phosphorus (P)	mg/L	<0.10	B508677	<0.10	B507654	<0.10	B507654	<0.10	0.10	B508108
Dissolved Potassium (K)	mg/L	2.9	B508677	3.0	B507654	3.1	B507654	3.3	0.30	B508108
Dissolved Selenium (Se)	mg/L	<0.00020	B507692	<0.00020	B507692	<0.00020	B507692	<0.00020	0.00020	B507692
Dissolved Silicon (Si)	mg/L	0.77	B508677	0.77	B507654	0.73	B507654	0.54	0.50	B508108
Dissolved Silver (Ag)	mg/L	<0.00010	B507692	<0.00010	B507692	<0.00010	B507692	<0.00010	0.00010	B507692
Dissolved Sodium (Na)	mg/L	2.8	B508677	2.8	B507654	2.8	B507654	2.9	0.50	B508108
Dissolved Strontium (Sr)	mg/L	0.036	B508677	0.035	B507654	0.036	B507654	0.048	0.020	B508108
Dissolved Sulphur (S)	mg/L	21	B508677	24	B507654	25	B507654	32	0.20	B508108
Dissolved Thallium (Tl)	mg/L	<0.00020	B507692	<0.00020	B507692	<0.00020	B507692	<0.00020	0.00020	B507692
Dissolved Tin (Sn)	mg/L	<0.0010	B507692	<0.0010	B507692	<0.0010	B507692	<0.0010	0.0010	B507692
Dissolved Titanium (Ti)	mg/L	<0.0010	B507692	<0.0010	B507692	<0.0010	B507692	<0.0010	0.0010	B507692
Dissolved Uranium (U)	mg/L	<0.00010	B507692	<0.00010	B507692	<0.00010	B507692	<0.00010	0.00010	B507692
Dissolved Vanadium (V)	mg/L	<0.0010	B507692	<0.0010	B507692	<0.0010	B507692	<0.0010	0.0010	B507692

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU891		CUU892		CUU893		CUU894		
Sampling Date		2024/09/04 11:15		2024/09/04 11:25		2024/09/04 11:30		2024/09/04 11:35		
COC Number		734342-01-01		734342-01-01		734342-01-01		734342-01-01		
	UNITS	**SB-2**	**QC Batch**	**CB-1**	**QC Batch**	**CB-2**	**QC Batch**	**EB-1**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.068	B507692	0.087	B507692	0.061	B507692	0.082	0.0030	B507692
RDL = Reportable Detection Limit										

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU895			CUU895			CUU896		
Sampling Date		2024/09/04 11:40			2024/09/04 11:40			2024/09/04 11:50		
COC Number		734342-01-01			734342-01-01			734342-01-01		
	UNITS	EB-2	RDL	QC Batch	EB-2 Lab-Dup	RDL	QC Batch	NB-1	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.30	0.020	B505878				0.23	0.020	B505880
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.024	0.0030	B507692				0.027	0.0030	B507692
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B507692				<0.00060	0.00060	B507692
Dissolved Arsenic (As)	mg/L	0.00033	0.00020	B507692				0.00033	0.00020	B507692
Dissolved Barium (Ba)	mg/L	0.011	0.010	B507654				<0.010	0.010	B508677
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B507692				<0.0010	0.0010	B507692
Dissolved Boron (B)	mg/L	<0.020	0.020	B507654				<0.020	0.020	B508677
Dissolved Calcium (Ca)	mg/L	39	0.30	B507654				32	0.30	B508677
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B507692				<0.0010	0.0010	B507692
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B507692				<0.00030	0.00030	B507692
Dissolved Copper (Cu)	mg/L	0.012	0.0010	B507692				0.012	0.0010	B507692
Dissolved Iron (Fe)	mg/L	1.5	0.060	B507654				2.9	0.060	B508677
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B513844	<0.00020	0.00020	B513844	<0.00020	0.00020	B507692
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B507654				<0.020	0.020	B508677
Dissolved Magnesium (Mg)	mg/L	6.9	0.20	B507654				6.0	0.20	B508677
Dissolved Manganese (Mn)	mg/L	<0.0040	0.0040	B507654				<0.0040	0.0040	B508677
Dissolved Molybdenum (Mo)	mg/L	0.00021	0.00020	B507692				<0.00020	0.00020	B507692
Dissolved Nickel (Ni)	mg/L	0.0011	0.00050	B507692				0.00083	0.00050	B507692
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B507654				<0.10	0.10	B508677
Dissolved Potassium (K)	mg/L	3.5	0.30	B507654				3.0	0.30	B508677
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B507692				<0.00020	0.00020	B507692
Dissolved Silicon (Si)	mg/L	0.52	0.50	B507654				0.63	0.50	B508677
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B507692				<0.00010	0.00010	B507692
Dissolved Sodium (Na)	mg/L	3.1	0.50	B507654				2.7	0.50	B508677
Dissolved Strontium (Sr)	mg/L	0.043	0.020	B507654				0.037	0.020	B508677
Dissolved Sulphur (S)	mg/L	36	0.20	B507654				28	0.20	B508677
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B507692				<0.00020	0.00020	B507692
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B507692				<0.0010	0.0010	B507692
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B507692				<0.0010	0.0010	B507692
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B507692				<0.00010	0.00010	B507692

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU895			CUU895			CUU896		
Sampling Date		2024/09/04 11:40			2024/09/04 11:40			2024/09/04 11:50		
COC Number		734342-01-01			734342-01-01			734342-01-01		
	UNITS	**EB-2**	**RDL**	**QC Batch**	**EB-2 Lab-Dup**	**RDL**	**QC Batch**	**NB-1**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B507692				<0.0010	0.0010	B507692
Dissolved Zinc (Zn)	mg/L	0.084	0.0030	B507692				0.068	0.0030	B507692

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU897	CUU898			CUU898		
Sampling Date		2024/09/04 11:45	2024/09/04 11:55			2024/09/04 11:55		
COC Number		734342-01-01	734342-01-01			734342-01-01		
	UNITS	NB-2	CLD	RDL	QC Batch	CLD Lab-Dup	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.24	0.22	0.020	B505880			
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.029	0.026	0.0030	B507692	0.029	0.0030	B507692
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B507692	<0.00060	0.00060	B507692
Dissolved Arsenic (As)	mg/L	0.00040	0.00030	0.00020	B507692	0.00041	0.00020	B507692
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	0.010	B508677			
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B507692	<0.0010	0.0010	B507692
Dissolved Boron (B)	mg/L	<0.020	<0.020	0.020	B508677			
Dissolved Calcium (Ca)	mg/L	31	32	0.30	B508677			
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B507692	<0.0010	0.0010	B507692
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	0.00030	B507692	<0.00030	0.00030	B507692
Dissolved Copper (Cu)	mg/L	0.013	0.012	0.0010	B507692	0.012	0.0010	B507692
Dissolved Iron (Fe)	mg/L	3.0	3.0	0.060	B508677			
Dissolved Lead (Pb)	mg/L	<0.00020	0.00036	0.00020	B507692	0.00049	0.00020	B507692
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	0.020	B508677			
Dissolved Magnesium (Mg)	mg/L	5.9	6.0	0.20	B508677			
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	0.0040	B508677			
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	0.00020	B507692	0.00022	0.00020	B507692
Dissolved Nickel (Ni)	mg/L	0.00086	0.00086	0.00050	B507692	0.00082	0.00050	B507692
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B508677			
Dissolved Potassium (K)	mg/L	3.0	3.0	0.30	B508677			
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B507692	<0.00020	0.00020	B507692
Dissolved Silicon (Si)	mg/L	0.64	0.63	0.50	B508677			
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B507692	<0.00010	0.00010	B507692
Dissolved Sodium (Na)	mg/L	2.7	2.7	0.50	B508677			
Dissolved Strontium (Sr)	mg/L	0.037	0.038	0.020	B508677			
Dissolved Sulphur (S)	mg/L	27	27	0.20	B508677			
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B507692	<0.00020	0.00020	B507692
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B507692	<0.0010	0.0010	B507692
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	0.0010	B507692	<0.0010	0.0010	B507692
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	B507692	<0.00010	0.00010	B507692

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU897	CUU898			CUU898		
Sampling Date		2024/09/04 11:45	2024/09/04 11:55			2024/09/04 11:55		
COC Number		734342-01-01	734342-01-01			734342-01-01		
	UNITS	**NB-2**	**CLD**	**RDL**	**QC Batch**	**CLD Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B507692	<0.0010	0.0010	B507692
Dissolved Zinc (Zn)	mg/L	0.070	0.065	0.0030	B507692	0.068	0.0030	B507692

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU899		CUU900		CUU901	CUU902		
Sampling Date		2024/09/04 10:30		2024/09/04 10:30		2024/09/04 10:35	2024/09/04 10:35		
COC Number		734342-02-01		734342-02-01		734342-02-01	734342-02-01		
	UNITS	CL-3 SFC	QC Batch	CL-3 BTM	QC Batch	CL-7 SFC	CL-7 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.031	B505880	0.045	B505880	0.036	0.031	0.020	B505880
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.011	B507689	0.019	B507692	0.019	0.018	0.0030	B507692
Dissolved Antimony (Sb)	mg/L	<0.00060	B507689	<0.00060	B507692	<0.00060	<0.00060	0.00060	B507692
Dissolved Arsenic (As)	mg/L	0.00037	B507689	0.00044	B507692	0.00042	0.00046	0.00020	B507692
Dissolved Barium (Ba)	mg/L	0.010	B508314	<0.010	B508314	0.011	<0.010	0.010	B508677
Dissolved Beryllium (Be)	mg/L	<0.0010	B507689	<0.0010	B507692	<0.0010	<0.0010	0.0010	B507692
Dissolved Boron (B)	mg/L	<0.020	B508314	<0.020	B508314	<0.020	<0.020	0.020	B508677
Dissolved Calcium (Ca)	mg/L	16	B508314	16	B508314	15	15	0.30	B508677
Dissolved Chromium (Cr)	mg/L	<0.0010	B507689	<0.0010	B507692	<0.0010	<0.0010	0.0010	B507692
Dissolved Cobalt (Co)	mg/L	<0.00030	B507689	<0.00030	B507692	<0.00030	<0.00030	0.00030	B507692
Dissolved Copper (Cu)	mg/L	0.0058	B507689	0.0074	B507692	0.0071	0.0072	0.0010	B507692
Dissolved Iron (Fe)	mg/L	0.24	B508314	0.24	B508314	0.27	0.27	0.060	B508677
Dissolved Lead (Pb)	mg/L	0.00022	B507689	<0.00020	B507692	<0.00020	<0.00020	0.00020	B507692
Dissolved Lithium (Li)	mg/L	<0.020	B508314	<0.020	B508314	<0.020	<0.020	0.020	B508677
Dissolved Magnesium (Mg)	mg/L	3.8	B508314	3.8	B508314	3.8	3.8	0.20	B508677
Dissolved Manganese (Mn)	mg/L	<0.0040	B508314	<0.0040	B508314	<0.0040	<0.0040	0.0040	B508677
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B507689	<0.00020	B507692	0.00033	0.00031	0.00020	B507692
Dissolved Nickel (Ni)	mg/L	<0.00050	B507689	<0.00050	B507692	<0.00050	0.00061	0.00050	B507692
Dissolved Phosphorus (P)	mg/L	<0.10	B508314	<0.10	B508314	<0.10	<0.10	0.10	B508677
Dissolved Potassium (K)	mg/L	1.9	B508314	1.9	B508314	1.8	1.9	0.30	B508677
Dissolved Selenium (Se)	mg/L	<0.00020	B507689	<0.00020	B507692	<0.00020	<0.00020	0.00020	B507692
Dissolved Silicon (Si)	mg/L	0.57	B508314	0.58	B508314	0.65	0.64	0.50	B508677
Dissolved Silver (Ag)	mg/L	<0.00010	B507689	<0.00010	B507692	<0.00010	<0.00010	0.00010	B507692
Dissolved Sodium (Na)	mg/L	2.3	B508314	2.3	B508314	2.3	2.3	0.50	B508677
Dissolved Strontium (Sr)	mg/L	0.032	B508314	0.032	B508314	0.029	0.029	0.020	B508677
Dissolved Sulphur (S)	mg/L	8.7	B508314	8.9	B508314	8.5	8.4	0.20	B508677
Dissolved Thallium (Tl)	mg/L	<0.00020	B507689	<0.00020	B507692	<0.00020	<0.00020	0.00020	B507692
Dissolved Tin (Sn)	mg/L	<0.0010	B507689	<0.0010	B507692	<0.0010	<0.0010	0.0010	B507692
Dissolved Titanium (Ti)	mg/L	<0.0010	B507689	<0.0010	B507692	<0.0010	<0.0010	0.0010	B507692
Dissolved Uranium (U)	mg/L	<0.00010	B507689	<0.00010	B507692	<0.00010	<0.00010	0.00010	B507692
Dissolved Vanadium (V)	mg/L	<0.0010	B507689	<0.0010	B507692	<0.0010	<0.0010	0.0010	B507692
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU899		CUU900		CUU901	CUU902		
Sampling Date		2024/09/04 10:30		2024/09/04 10:30		2024/09/04 10:35	2024/09/04 10:35		
COC Number		734342-02-01		734342-02-01		734342-02-01	734342-02-01		
	UNITS	**CL-3 SFC**	**QC Batch**	**CL-3 BTM**	**QC Batch**	**CL-7 SFC**	**CL-7 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.015	B507689	0.019	B507692	0.019	0.018	0.0030	B507692
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU903		CUU904		CUU905		CUU906		
Sampling Date		2024/09/04 10:25		2024/09/04 10:25		2024/09/04 10:45		2024/09/04 10:45		
COC Number		734342-02-01		734342-02-01		734342-02-01		734342-02-01		
	UNITS	CL-8 SFC	QC Batch	CL-8 BTM	QC Batch	CL-2 SFC	QC Batch	CL-2 BTM	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.030	B505880	0.030	B505880	0.035	B505880	0.036	0.020	B505880
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.024	B507692	0.020	B507689	0.020	B507692	0.019	0.0030	B507689
Dissolved Antimony (Sb)	mg/L	<0.00060	B507692	<0.00060	B507689	<0.00060	B507692	<0.00060	0.00060	B507689
Dissolved Arsenic (As)	mg/L	0.00045	B507692	0.00039	B507689	0.00050	B507692	0.00038	0.00020	B507689
Dissolved Barium (Ba)	mg/L	0.010	B508314	0.011	B508314	<0.010	B508314	<0.010	0.010	B508314
Dissolved Beryllium (Be)	mg/L	<0.0010	B507692	<0.0010	B507689	<0.0010	B507692	<0.0010	0.0010	B507689
Dissolved Boron (B)	mg/L	<0.020	B508314	<0.020	B508314	<0.020	B508314	<0.020	0.020	B508314
Dissolved Calcium (Ca)	mg/L	15	B508314	16	B508314	15	B508314	15	0.30	B508314
Dissolved Chromium (Cr)	mg/L	<0.0010	B507692	<0.0010	B507689	<0.0010	B507692	<0.0010	0.0010	B507689
Dissolved Cobalt (Co)	mg/L	<0.00030	B507692	<0.00030	B507689	<0.00030	B507692	<0.00030	0.00030	B507689
Dissolved Copper (Cu)	mg/L	0.0067	B507692	0.0065	B507689	0.0068	B507692	0.0078	0.0010	B507689
Dissolved Iron (Fe)	mg/L	0.18	B508314	0.21	B508314	0.16	B508314	0.19	0.060	B508314
Dissolved Lead (Pb)	mg/L	<0.00020	B507692	<0.00020	B507689	<0.00020	B507692	<0.00020	0.00020	B507689
Dissolved Lithium (Li)	mg/L	<0.020	B508314	<0.020	B508314	<0.020	B508314	<0.020	0.020	B508314
Dissolved Magnesium (Mg)	mg/L	3.7	B508314	3.8	B508314	3.7	B508314	3.7	0.20	B508314
Dissolved Manganese (Mn)	mg/L	<0.0040	B508314	<0.0040	B508314	<0.0040	B508314	<0.0040	0.0040	B508314
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B507692	<0.00020	B507689	<0.00020	B507692	<0.00020	0.00020	B507689
Dissolved Nickel (Ni)	mg/L	<0.00050	B507692	0.00055	B507689	<0.00050	B507692	<0.00050	0.00050	B507689
Dissolved Phosphorus (P)	mg/L	<0.10	B508314	<0.10	B508314	<0.10	B508314	<0.10	0.10	B508314
Dissolved Potassium (K)	mg/L	1.8	B508314	2.0	B508314	1.8	B508314	1.9	0.30	B508314
Dissolved Selenium (Se)	mg/L	<0.00020	B507692	<0.00020	B507689	<0.00020	B507692	<0.00020	0.00020	B507689
Dissolved Silicon (Si)	mg/L	0.58	B508314	0.59	B508314	0.61	B508314	0.65	0.50	B508314
Dissolved Silver (Ag)	mg/L	<0.00010	B507692	<0.00010	B507689	<0.00010	B507692	<0.00010	0.00010	B507689
Dissolved Sodium (Na)	mg/L	2.3	B508314	2.4	B508314	2.3	B508314	2.3	0.50	B508314
Dissolved Strontium (Sr)	mg/L	0.032	B508314	0.033	B508314	0.031	B508314	0.032	0.020	B508314
Dissolved Sulphur (S)	mg/L	8.0	B508314	7.5	B508314	8.4	B508314	8.2	0.20	B508314
Dissolved Thallium (Tl)	mg/L	<0.00020	B507692	<0.00020	B507689	<0.00020	B507692	<0.00020	0.00020	B507689
Dissolved Tin (Sn)	mg/L	<0.0010	B507692	<0.0010	B507689	<0.0010	B507692	<0.0010	0.0010	B507689
Dissolved Titanium (Ti)	mg/L	<0.0010	B507692	<0.0010	B507689	<0.0010	B507692	<0.0010	0.0010	B507689
Dissolved Uranium (U)	mg/L	<0.00010	B507692	<0.00010	B507689	<0.00010	B507692	<0.00010	0.00010	B507689
Dissolved Vanadium (V)	mg/L	<0.0010	B507692	<0.0010	B507689	<0.0010	B507692	<0.0010	0.0010	B507689

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU903		CUU904		CUU905		CUU906		
Sampling Date		2024/09/04 10:25		2024/09/04 10:25		2024/09/04 10:45		2024/09/04 10:45		
COC Number		734342-02-01		734342-02-01		734342-02-01		734342-02-01		
	UNITS	**CL-8 SFC**	**QC Batch**	**CL-8 BTM**	**QC Batch**	**CL-2 SFC**	**QC Batch**	**CL-2 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.018	B507692	0.017	B507689	0.020	B507692	0.029	0.0030	B507689
RDL = Reportable Detection Limit										

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU907	CUU908		CUU909		CUU910		
Sampling Date		2024/09/04 10:15	2024/09/04 10:15		2024/09/04 10:10		2024/09/04 10:10		
COC Number		734342-02-01	734342-02-01		734342-03-01		734342-03-01		
	UNITS	CL-4 SFC	CL-4 BTM	QC Batch	CL-5 SFC	QC Batch	CL-5 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.032	0.025	B505880	0.028	B505880	0.023	0.020	B505880
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.012	0.012	B507689	0.022	B507692	0.014	0.0030	B507689
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B507689	<0.00060	B507692	<0.00060	0.00060	B507689
Dissolved Arsenic (As)	mg/L	0.00041	0.00043	B507689	0.00037	B507692	0.00038	0.00020	B507689
Dissolved Barium (Ba)	mg/L	0.010	<0.010	B508314	0.010	B508314	<0.010	0.010	B508314
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B507689	<0.0010	B507692	<0.0010	0.0010	B507689
Dissolved Boron (B)	mg/L	<0.020	<0.020	B508314	<0.020	B508314	<0.020	0.020	B508314
Dissolved Calcium (Ca)	mg/L	15	15	B508314	14	B508314	14	0.30	B508314
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B507689	<0.0010	B507692	<0.0010	0.0010	B507689
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B507689	<0.00030	B507692	<0.00030	0.00030	B507689
Dissolved Copper (Cu)	mg/L	0.0063	0.0061	B507689	0.0061	B507692	0.0075	0.0010	B507689
Dissolved Iron (Fe)	mg/L	0.15	0.18	B508314	0.098	B508314	0.13	0.060	B508314
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B507689	<0.00020	B507692	<0.00020	0.00020	B507689
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B508314	<0.020	B508314	<0.020	0.020	B508314
Dissolved Magnesium (Mg)	mg/L	3.8	3.7	B508314	3.6	B508314	3.6	0.20	B508314
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	B508314	<0.0040	B508314	<0.0040	0.0040	B508314
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B507689	0.0019	B513844	0.00026	0.00020	B507689
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00056	B507689	<0.00050	B507692	<0.00050	0.00050	B507689
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B508314	<0.10	B508314	<0.10	0.10	B508314
Dissolved Potassium (K)	mg/L	2.0	1.8	B508314	1.8	B508314	1.8	0.30	B508314
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B507689	<0.00020	B507692	<0.00020	0.00020	B507689
Dissolved Silicon (Si)	mg/L	0.57	0.57	B508314	0.52	B508314	0.55	0.50	B508314
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B507689	<0.00010	B507692	<0.00010	0.00010	B507689
Dissolved Sodium (Na)	mg/L	2.3	2.2	B508314	2.3	B508314	2.3	0.50	B508314
Dissolved Strontium (Sr)	mg/L	0.032	0.031	B508314	0.031	B508314	0.032	0.020	B508314
Dissolved Sulphur (S)	mg/L	7.4	7.7	B508314	7.5	B508314	7.3	0.20	B508314
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B507689	<0.00020	B507692	<0.00020	0.00020	B507689
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B507689	<0.0010	B507692	<0.0010	0.0010	B507689
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B507689	<0.0010	B507692	<0.0010	0.0010	B507689
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B507689	<0.00010	B507692	<0.00010	0.00010	B507689
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B507689	<0.0010	B507692	<0.0010	0.0010	B507689

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU907	CUU908		CUU909		CUU910		
Sampling Date		2024/09/04 10:15	2024/09/04 10:15		2024/09/04 10:10		2024/09/04 10:10		
COC Number		734342-02-01	734342-02-01		734342-03-01		734342-03-01		
	UNITS	**CL-4 SFC**	**CL-4 BTM**	**QC Batch**	**CL-5 SFC**	**QC Batch**	**CL-5 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.016	0.015	B507689	0.015	B507692	0.015	0.0030	B507689
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU911		CUU912		CUU913		CUU914		
Sampling Date		2024/09/04 10:00		2024/09/04 10:00		2024/09/04		2024/09/04		
COC Number		734342-03-01		734342-03-01		734342-03-01		734342-03-01		
	UNITS	CL-6 SFC	QC Batch	CL-6 BTM	QC Batch	SW-125	QC Batch	SW-126	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	<0.020	B505880	<0.020	B505880	0.024	B505880	0.084	0.020	B505880
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.013	B507692	0.014	B507689	0.012	B507689	0.017	0.0030	B507689
Dissolved Antimony (Sb)	mg/L	<0.00060	B507692	<0.00060	B507689	<0.00060	B507689	<0.00060	0.00060	B507689
Dissolved Arsenic (As)	mg/L	0.00047	B507692	0.00035	B507689	0.00037	B507689	0.00040	0.00020	B507689
Dissolved Barium (Ba)	mg/L	<0.010	B508314	<0.010	B508421	<0.010	B508421	<0.010	0.010	B508314
Dissolved Beryllium (Be)	mg/L	<0.0010	B507692	<0.0010	B507689	<0.0010	B507689	<0.0010	0.0010	B507689
Dissolved Boron (B)	mg/L	<0.020	B508314	<0.020	B508421	<0.020	B508421	<0.020	0.020	B508314
Dissolved Calcium (Ca)	mg/L	13	B508314	13	B508421	15	B508421	9.7	0.30	B508314
Dissolved Chromium (Cr)	mg/L	<0.0010	B507692	<0.0010	B507689	<0.0010	B507689	<0.0010	0.0010	B507689
Dissolved Cobalt (Co)	mg/L	<0.00030	B507692	<0.00030	B507689	<0.00030	B507689	<0.00030	0.00030	B507689
Dissolved Copper (Cu)	mg/L	0.0053	B507692	0.0050	B507689	0.0063	B507689	0.0047	0.0010	B507689
Dissolved Iron (Fe)	mg/L	0.063	B508314	0.070	B508421	0.11	B508421	0.23	0.060	B508314
Dissolved Lead (Pb)	mg/L	<0.00020	B507692	<0.00020	B507689	<0.00020	B507689	<0.00020	0.00020	B507689
Dissolved Lithium (Li)	mg/L	<0.020	B508314	<0.020	B508421	<0.020	B508421	<0.020	0.020	B508314
Dissolved Magnesium (Mg)	mg/L	3.4	B508314	3.5	B508421	3.6	B508421	2.9	0.20	B508314
Dissolved Manganese (Mn)	mg/L	<0.0040	B508314	<0.0040	B508421	<0.0040	B508421	0.0081	0.0040	B508314
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B507692	<0.00020	B507689	0.0013	B513844	<0.00020	0.00020	B507689
Dissolved Nickel (Ni)	mg/L	<0.00050	B507692	<0.00050	B507689	<0.00050	B507689	<0.00050	0.00050	B507689
Dissolved Phosphorus (P)	mg/L	<0.10	B508314	<0.10	B508421	<0.10	B508421	<0.10	0.10	B508314
Dissolved Potassium (K)	mg/L	1.7	B508314	1.7	B508421	1.8	B508421	1.6	0.30	B508314
Dissolved Selenium (Se)	mg/L	<0.00020	B507692	<0.00020	B507689	<0.00020	B507689	<0.00020	0.00020	B507689
Dissolved Silicon (Si)	mg/L	<0.50	B508314	0.52	B508421	0.53	B508421	1.1	0.50	B508314
Dissolved Silver (Ag)	mg/L	<0.00010	B507692	<0.00010	B507689	<0.00010	B507689	<0.00010	0.00010	B507689
Dissolved Sodium (Na)	mg/L	2.2	B508314	2.2	B508421	2.2	B508421	3.0	0.50	B508314
Dissolved Strontium (Sr)	mg/L	0.030	B508314	0.030	B508421	0.031	B508421	0.025	0.020	B508314
Dissolved Sulphur (S)	mg/L	6.5	B508314	6.5	B508421	7.3	B508421	1.6	0.20	B508314
Dissolved Thallium (Tl)	mg/L	<0.00020	B507692	<0.00020	B507689	<0.00020	B507689	<0.00020	0.00020	B507689
Dissolved Tin (Sn)	mg/L	<0.0010	B507692	<0.0010	B507689	<0.0010	B507689	<0.0010	0.0010	B507689
Dissolved Titanium (Ti)	mg/L	<0.0010	B507692	<0.0010	B507689	<0.0010	B507689	<0.0010	0.0010	B507689
Dissolved Uranium (U)	mg/L	<0.00010	B507692	<0.00010	B507689	<0.00010	B507689	<0.00010	0.00010	B507689
Dissolved Vanadium (V)	mg/L	<0.0010	B507692	<0.0010	B507689	<0.0010	B507689	<0.0010	0.0010	B507689

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU911		CUU912		CUU913		CUU914		
Sampling Date		2024/09/04 10:00		2024/09/04 10:00		2024/09/04		2024/09/04		
COC Number		734342-03-01		734342-03-01		734342-03-01		734342-03-01		
	UNITS	**CL-6 SFC**	**QC Batch**	**CL-6 BTM**	**QC Batch**	**SW-125**	**QC Batch**	**SW-126**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.012	B507692	0.011	B507689	0.014	B507689	0.054	0.0030	B507689
RDL = Reportable Detection Limit										

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU915		CUU916		
Sampling Date		2024/09/04		2024/09/04		
COC Number		734342-03-01		734342-03-01		
	UNITS	SW-127	QC Batch	TRIP BLANK	RDL	QC Batch
Elements						
Dissolved Cadmium (Cd)	ug/L	0.29	B505880	<0.020	0.020	B505424
Lab Filtered Elements						
Dissolved Aluminum (Al)	mg/L	0.022	B507689	<0.0030	0.0030	B507689
Dissolved Antimony (Sb)	mg/L	<0.00060	B507689	<0.00060	0.00060	B507689
Dissolved Arsenic (As)	mg/L	0.00028	B507689	<0.00020	0.00020	B507689
Dissolved Barium (Ba)	mg/L	0.013	B508314	<0.010	0.010	B508421
Dissolved Beryllium (Be)	mg/L	<0.0010	B507689	<0.0010	0.0010	B507689
Dissolved Boron (B)	mg/L	<0.020	B508314	<0.020	0.020	B508421
Dissolved Calcium (Ca)	mg/L	41	B508314	<0.30	0.30	B508421
Dissolved Chromium (Cr)	mg/L	<0.0010	B507689	<0.0010	0.0010	B507689
Dissolved Cobalt (Co)	mg/L	<0.00030	B507689	<0.00030	0.00030	B507689
Dissolved Copper (Cu)	mg/L	0.011	B507689	<0.0010	0.0010	B507689
Dissolved Iron (Fe)	mg/L	1.6	B508314	<0.060	0.060	B508421
Dissolved Lead (Pb)	mg/L	<0.00020	B507689	0.00021	0.00020	B507689
Dissolved Lithium (Li)	mg/L	<0.020	B508314	<0.020	0.020	B508421
Dissolved Magnesium (Mg)	mg/L	6.6	B508314	<0.20	0.20	B508421
Dissolved Manganese (Mn)	mg/L	<0.0040	B508314	<0.0040	0.0040	B508421
Dissolved Molybdenum (Mo)	mg/L	0.00027	B507689	<0.00020	0.00020	B507689
Dissolved Nickel (Ni)	mg/L	0.00093	B507689	<0.00050	0.00050	B507689
Dissolved Phosphorus (P)	mg/L	<0.10	B508314	<0.10	0.10	B508421
Dissolved Potassium (K)	mg/L	3.7	B508314	<0.30	0.30	B508421
Dissolved Selenium (Se)	mg/L	<0.00020	B507689	<0.00020	0.00020	B507689
Dissolved Silicon (Si)	mg/L	<0.50	B508314	<0.50	0.50	B508421
Dissolved Silver (Ag)	mg/L	<0.00010	B507689	<0.00010	0.00010	B507689
Dissolved Sodium (Na)	mg/L	3.2	B508314	<0.50	0.50	B508421
Dissolved Strontium (Sr)	mg/L	0.050	B508314	<0.020	0.020	B508421
Dissolved Sulphur (S)	mg/L	32	B508314	<0.20	0.20	B508421
Dissolved Thallium (Tl)	mg/L	<0.00020	B507689	<0.00020	0.00020	B507689
Dissolved Tin (Sn)	mg/L	<0.0010	B507689	<0.0010	0.0010	B507689
Dissolved Titanium (Ti)	mg/L	<0.0010	B507689	<0.0010	0.0010	B507689
Dissolved Uranium (U)	mg/L	<0.00010	B507689	<0.00010	0.00010	B507689
Dissolved Vanadium (V)	mg/L	<0.0010	B507689	<0.0010	0.0010	B507689
RDL = Reportable Detection Limit						

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CUU915		CUU916		
Sampling Date		2024/09/04		2024/09/04		
COC Number		734342-03-01		734342-03-01		
	UNITS	**SW-127**	**QC Batch**	**TRIP BLANK**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.078	B507689	<0.0030	0.0030	B507689
RDL = Reportable Detection Limit						

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CUU889	CUU890		CUU891		CUU892		
Sampling Date		2024/09/04 12:35	2024/09/04 11:20		2024/09/04 11:15		2024/09/04 11:25		
COC Number		734342-01-01	734342-01-01		734342-01-01		734342-01-01		
	UNITS	SC-1	SB-1	QC Batch	SB-2	QC Batch	CB-1	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.13	0.28	B505426	0.25	B505426	0.26	0.020	B505426
Total Aluminum (Al)	mg/L	0.036	0.057	B512587	0.059	B512335	0.056	0.0030	B512587
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B512587	<0.00060	B512335	<0.00060	0.00060	B512587
Total Arsenic (As)	mg/L	0.00056	0.00041	B512587	0.00037	B512335	0.00039	0.00020	B512587
Total Barium (Ba)	mg/L	<0.010	0.011	B512609	0.010	B512348	0.011	0.010	B512609
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B512587	<0.0010	B512335	<0.0010	0.0010	B512587
Total Boron (B)	mg/L	<0.020	<0.020	B512609	<0.020	B512348	<0.020	0.020	B512609
Total Calcium (Ca)	mg/L	9.1	26	B512609	25	B512348	26	0.30	B512609
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B512587	<0.0010	B512335	<0.0010	0.0010	B512587
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B512587	<0.00030	B512335	<0.00030	0.00030	B512587
Total Copper (Cu)	mg/L	0.0058	0.013	B512587	0.013	B512335	0.013	0.0010	B512587
Total Iron (Fe)	mg/L	0.42	5.0	B512609	4.7	B512348	5.1	0.060	B512609
Total Lead (Pb)	mg/L	<0.00020	<0.00020	B512587	0.00020	B512335	0.00022	0.00020	B512587
Total Lithium (Li)	mg/L	<0.020	<0.020	B512609	<0.020	B512348	<0.020	0.020	B512609
Total Magnesium (Mg)	mg/L	3.0	5.4	B512609	5.2	B512348	5.4	0.20	B512609
Total Manganese (Mn)	mg/L	0.041	0.034	B512609	0.033	B512348	0.033	0.0040	B512609
Total Molybdenum (Mo)	mg/L	0.0024	0.0014	B512587	0.0059	B512335	<0.00020	0.00020	B512587
Total Nickel (Ni)	mg/L	<0.00050	0.00080	B512587	0.00089	B512335	0.00083	0.00050	B512587
Total Phosphorus (P)	mg/L	<0.10	<0.10	B512609	<0.10	B512348	<0.10	0.10	B512609
Total Potassium (K)	mg/L	1.5	2.8	B512609	2.7	B512348	2.8	0.30	B512609
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B512587	<0.00020	B512335	<0.00020	0.00020	B512587
Total Silicon (Si)	mg/L	1.3	0.90	B512609	0.89	B512348	0.86	0.50	B512609
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B512587	<0.00010	B512335	<0.00010	0.00010	B512587
Total Sodium (Na)	mg/L	2.8	2.7	B512609	2.6	B512348	2.6	0.50	B512609
Total Strontium (Sr)	mg/L	0.024	0.039	B512609	0.037	B512348	0.039	0.020	B512609
Total Sulphur (S)	mg/L	1.6	23	B512609	22	B512348	24	0.20	B512609
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B512587	<0.00020	B512335	<0.00020	0.00020	B512587
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B512587	<0.0010	B512335	<0.0010	0.0010	B512587
Total Titanium (Ti)	mg/L	0.0013	0.0019	B512587	0.0028	B512335	0.0022	0.0010	B512587
Total Uranium (U)	mg/L	<0.00010	<0.00010	B512587	<0.00010	B512335	<0.00010	0.00010	B512587
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B512587	<0.0010	B512335	<0.0010	0.0010	B512587
Total Zinc (Zn)	mg/L	0.057	0.073	B512587	0.070	B512335	0.074	0.0030	B512587

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CUU893		CUU894	CUU895	CUU896		
Sampling Date		2024/09/04 11:30		2024/09/04 11:35	2024/09/04 11:40	2024/09/04 11:50		
COC Number		734342-01-01		734342-01-01	734342-01-01	734342-01-01		
	UNITS	CB-2	QC Batch	EB-1	EB-2	NB-1	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.28	B505426	0.37	0.36	0.28	0.020	B505426
Total Aluminum (Al)	mg/L	0.065	B512587	0.071	0.077	0.056	0.0030	B512335
Total Antimony (Sb)	mg/L	<0.00060	B512587	<0.00060	<0.00060	<0.00060	0.00060	B512335
Total Arsenic (As)	mg/L	0.00036	B512587	0.00034	0.00033	0.00039	0.00020	B512335
Total Barium (Ba)	mg/L	0.011	B512609	0.012	0.013	0.010	0.010	B512348
Total Beryllium (Be)	mg/L	<0.0010	B512587	<0.0010	<0.0010	<0.0010	0.0010	B512335
Total Boron (B)	mg/L	<0.020	B512609	<0.020	<0.020	<0.020	0.020	B512348
Total Calcium (Ca)	mg/L	28	B512609	34	36	31	0.30	B512348
Total Chromium (Cr)	mg/L	<0.0010	B512587	<0.0010	<0.0010	<0.0010	0.0010	B512335
Total Cobalt (Co)	mg/L	<0.00030	B512587	<0.00030	<0.00030	<0.00030	0.00030	B512335
Total Copper (Cu)	mg/L	0.013	B512587	0.014	0.014	0.012	0.0010	B512335
Total Iron (Fe)	mg/L	4.9	B512609	3.0	2.6	3.9	0.060	B512348
Total Lead (Pb)	mg/L	<0.00020	B512587	<0.00020	<0.00020	0.00021	0.00020	B512335
Total Lithium (Li)	mg/L	<0.020	B512609	<0.020	<0.020	<0.020	0.020	B512348
Total Magnesium (Mg)	mg/L	5.5	B512609	6.4	6.6	6.1	0.20	B512348
Total Manganese (Mn)	mg/L	0.030	B512609	0.026	0.016	0.028	0.0040	B512348
Total Molybdenum (Mo)	mg/L	<0.00020	B512587	<0.00020	0.0021	<0.00020	0.00020	B512335
Total Nickel (Ni)	mg/L	0.00083	B512587	0.00093	0.0010	0.00071	0.00050	B512335
Total Phosphorus (P)	mg/L	<0.10	B512609	<0.10	<0.10	<0.10	0.10	B512348
Total Potassium (K)	mg/L	2.9	B512609	3.2	3.2	2.9	0.30	B512348
Total Selenium (Se)	mg/L	<0.00020	B512587	<0.00020	<0.00020	<0.00020	0.00020	B512335
Total Silicon (Si)	mg/L	0.86	B512609	0.65	0.65	0.77	0.50	B512348
Total Silver (Ag)	mg/L	<0.00010	B512587	<0.00010	<0.00010	<0.00010	0.00010	B512335
Total Sodium (Na)	mg/L	2.7	B512609	2.8	2.9	2.6	0.50	B512348
Total Strontium (Sr)	mg/L	0.039	B512609	0.044	0.046	0.041	0.020	B512348
Total Sulphur (S)	mg/L	25	B512609	33	35	29	0.20	B512348
Total Thallium (Tl)	mg/L	<0.00020	B512587	<0.00020	<0.00020	<0.00020	0.00020	B512335
Total Tin (Sn)	mg/L	<0.0010	B512587	<0.0010	<0.0010	<0.0010	0.0010	B512335
Total Titanium (Ti)	mg/L	0.0044	B512587	0.0024	0.0029	0.0018	0.0010	B512335
Total Uranium (U)	mg/L	<0.00010	B512587	<0.00010	<0.00010	<0.00010	0.00010	B512335
Total Vanadium (V)	mg/L	<0.0010	B512587	<0.0010	<0.0010	<0.0010	0.0010	B512335
Total Zinc (Zn)	mg/L	0.071	B512587	0.092	0.094	0.072	0.0030	B512335

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CUU897		CUU898	CUU899		CUU900		
Sampling Date		2024/09/04 11:45		2024/09/04 11:55	2024/09/04 10:30		2024/09/04 10:30		
COC Number		734342-01-01		734342-01-01	734342-02-01		734342-02-01		
	UNITS	NB-2	QC Batch	CLD	CL-3 SFC	QC Batch	CL-3 BTM	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.26	B505882	0.27	0.060	B505882	0.072	0.020	B505882
Total Aluminum (Al)	mg/L	0.063	B512335	0.063	0.040	B512587	0.045	0.0030	B512335
Total Antimony (Sb)	mg/L	<0.00060	B512335	<0.00060	<0.00060	B512587	<0.00060	0.00060	B512335
Total Arsenic (As)	mg/L	0.00030	B512335	0.00040	0.00048	B512587	0.00045	0.00020	B512335
Total Barium (Ba)	mg/L	0.011	B512348	0.011	0.010	B512609	0.010	0.010	B512348
Total Beryllium (Be)	mg/L	<0.0010	B512335	<0.0010	<0.0010	B512587	<0.0010	0.0010	B512335
Total Boron (B)	mg/L	0.023	B512348	<0.020	<0.020	B512609	<0.020	0.020	B512348
Total Calcium (Ca)	mg/L	30	B512348	31	15	B512609	15	0.30	B512348
Total Chromium (Cr)	mg/L	<0.0010	B512335	<0.0010	<0.0010	B512587	<0.0010	0.0010	B512335
Total Cobalt (Co)	mg/L	<0.00030	B512335	<0.00030	<0.00030	B512587	<0.00030	0.00030	B512335
Total Copper (Cu)	mg/L	0.014	B512335	0.013	0.0072	B512587	0.0075	0.0010	B512335
Total Iron (Fe)	mg/L	4.0	B512348	3.9	0.64	B512609	0.67	0.060	B512348
Total Lead (Pb)	mg/L	0.00056	B512335	<0.00020	<0.00020	B512587	<0.00020	0.00020	B512335
Total Lithium (Li)	mg/L	<0.020	B512348	<0.020	<0.020	B512609	<0.020	0.020	B512348
Total Magnesium (Mg)	mg/L	5.9	B512348	6.1	3.8	B512609	4.0	0.20	B512348
Total Manganese (Mn)	mg/L	0.023	B512348	0.024	0.027	B512609	0.028	0.0040	B512348
Total Molybdenum (Mo)	mg/L	<0.00020	B512335	<0.00020	<0.00020	B512587	<0.00020	0.00020	B512335
Total Nickel (Ni)	mg/L	0.00087	B512335	0.00074	0.00056	B512587	<0.00050	0.00050	B512335
Total Phosphorus (P)	mg/L	<0.10	B512348	<0.10	<0.10	B512609	<0.10	0.10	B512348
Total Potassium (K)	mg/L	2.8	B512348	2.8	1.8	B512609	1.8	0.30	B512348
Total Selenium (Se)	mg/L	<0.00020	B512335	<0.00020	<0.00020	B512587	<0.00020	0.00020	B512335
Total Silicon (Si)	mg/L	0.82	B512348	0.74	0.70	B512609	0.79	0.50	B512348
Total Silver (Ag)	mg/L	<0.00010	B512335	<0.00010	<0.00010	B512587	<0.00010	0.00010	B512335
Total Sodium (Na)	mg/L	2.6	B512348	2.5	2.1	B512609	2.2	0.50	B512348
Total Strontium (Sr)	mg/L	0.040	B512348	0.041	0.030	B512609	0.031	0.020	B512348
Total Sulphur (S)	mg/L	27	B512348	29	8.8	B512609	9.3	0.20	B512348
Total Thallium (Tl)	mg/L	<0.00020	B512335	<0.00020	<0.00020	B512587	<0.00020	0.00020	B512335
Total Tin (Sn)	mg/L	<0.0010	B512335	<0.0010	<0.0010	B512587	<0.0010	0.0010	B512335
Total Titanium (Ti)	mg/L	0.0020	B512335	0.0029	0.0016	B512587	0.0014	0.0010	B512335
Total Uranium (U)	mg/L	<0.00010	B512335	<0.00010	<0.00010	B512587	<0.00010	0.00010	B512335
Total Vanadium (V)	mg/L	<0.0010	B512335	<0.0010	<0.0010	B512587	<0.0010	0.0010	B512335
Total Zinc (Zn)	mg/L	0.076	B512335	0.072	0.021	B512587	0.024	0.0030	B512335

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CUU901	CUU902	CUU903		CUU904		
Sampling Date		2024/09/04 10:35	2024/09/04 10:35	2024/09/04 10:25		2024/09/04 10:25		
COC Number		734342-02-01	734342-02-01	734342-02-01		734342-02-01		
	UNITS	CL-7 SFC	CL-7 BTM	CL-8 SFC	QC Batch	CL-8 BTM	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.065	0.071	0.065	B505882	0.065	0.020	B505882
Total Aluminum (Al)	mg/L	0.043	0.046	0.042	B512335	0.045	0.0030	B512587
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	B512335	<0.00060	0.00060	B512587
Total Arsenic (As)	mg/L	0.00041	0.00045	0.00043	B512335	0.00049	0.00020	B512587
Total Barium (Ba)	mg/L	0.010	0.010	0.010	B512348	0.011	0.010	B512609
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	B512335	<0.0010	0.0010	B512587
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	B512348	<0.020	0.020	B512609
Total Calcium (Ca)	mg/L	16	15	14	B512348	15	0.30	B512609
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	B512335	<0.0010	0.0010	B512587
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	B512335	<0.00030	0.00030	B512587
Total Copper (Cu)	mg/L	0.0073	0.0076	0.0068	B512335	0.0075	0.0010	B512587
Total Iron (Fe)	mg/L	0.62	0.64	0.51	B512348	0.58	0.060	B512609
Total Lead (Pb)	mg/L	<0.00020	0.00022	<0.00020	B512335	<0.00020	0.00020	B512587
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	B512348	<0.020	0.020	B512609
Total Magnesium (Mg)	mg/L	3.8	3.9	3.8	B512348	3.9	0.20	B512609
Total Manganese (Mn)	mg/L	0.028	0.028	0.030	B512348	0.030	0.0040	B512609
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	B512335	0.00067	0.00020	B512587
Total Nickel (Ni)	mg/L	0.00054	<0.00050	<0.00050	B512335	0.00062	0.00050	B512587
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	B512348	<0.10	0.10	B512609
Total Potassium (K)	mg/L	1.9	1.7	1.7	B512348	1.8	0.30	B512609
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	B512335	<0.00020	0.00020	B512587
Total Silicon (Si)	mg/L	0.73	0.77	0.72	B512348	0.93	0.50	B512609
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	B512335	<0.00010	0.00010	B512587
Total Sodium (Na)	mg/L	2.3	2.2	2.2	B512348	2.2	0.50	B512609
Total Strontium (Sr)	mg/L	0.031	0.031	0.030	B512348	0.031	0.020	B512609
Total Sulphur (S)	mg/L	8.7	8.8	8.2	B512348	8.4	0.20	B512609
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	B512335	<0.00020	0.00020	B512587
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	B512335	<0.0010	0.0010	B512587
Total Titanium (Ti)	mg/L	0.0012	0.0012	0.0010	B512335	0.0013	0.0010	B512587
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	B512335	<0.00010	0.00010	B512587
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	B512335	<0.0010	0.0010	B512587
Total Zinc (Zn)	mg/L	0.023	0.023	0.021	B512335	0.022	0.0030	B512587

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CUU905		CUU906		CUU907	CUU908		
Sampling Date		2024/09/04 10:45		2024/09/04 10:45		2024/09/04 10:15	2024/09/04 10:15		
COC Number		734342-02-01		734342-02-01		734342-02-01	734342-02-01		
	UNITS	CL-2 SFC	QC Batch	CL-2 BTM	QC Batch	CL-4 SFC	CL-4 BTM	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.065	B505882	0.071	B505882	0.067	0.066	0.020	B505882
Total Aluminum (Al)	mg/L	0.038	B512335	0.040	B512587	0.047	0.040	0.0030	B512335
Total Antimony (Sb)	mg/L	<0.00060	B512335	<0.00060	B512587	<0.00060	<0.00060	0.00060	B512335
Total Arsenic (As)	mg/L	0.00040	B512335	0.00051	B512587	0.00043	0.00037	0.00020	B512335
Total Barium (Ba)	mg/L	0.011	B512348	0.011	B512609	0.010	0.010	0.010	B512348
Total Beryllium (Be)	mg/L	<0.0010	B512335	<0.0010	B512587	<0.0010	<0.0010	0.0010	B512335
Total Boron (B)	mg/L	<0.020	B512348	<0.020	B512609	<0.020	<0.020	0.020	B512348
Total Calcium (Ca)	mg/L	14	B512348	14	B512609	14	14	0.30	B512348
Total Chromium (Cr)	mg/L	<0.0010	B512335	<0.0010	B512587	<0.0010	<0.0010	0.0010	B512335
Total Cobalt (Co)	mg/L	<0.00030	B512335	<0.00030	B512587	<0.00030	<0.00030	0.00030	B512335
Total Copper (Cu)	mg/L	0.0075	B512335	0.0075	B512587	0.0071	0.0076	0.0010	B512335
Total Iron (Fe)	mg/L	0.45	B512348	0.47	B512609	0.45	0.45	0.060	B512348
Total Lead (Pb)	mg/L	0.00058	B512335	<0.00020	B512587	<0.00020	<0.00020	0.00020	B512335
Total Lithium (Li)	mg/L	<0.020	B512348	<0.020	B512609	<0.020	<0.020	0.020	B512348
Total Magnesium (Mg)	mg/L	3.9	B512348	3.9	B512609	3.8	3.7	0.20	B512348
Total Manganese (Mn)	mg/L	0.029	B512348	0.030	B512609	0.030	0.032	0.0040	B512348
Total Molybdenum (Mo)	mg/L	<0.00020	B512335	<0.00020	B512587	0.00021	<0.00020	0.00020	B512335
Total Nickel (Ni)	mg/L	0.00093	B512335	<0.00050	B512587	0.00051	0.00050	0.00050	B512335
Total Phosphorus (P)	mg/L	<0.10	B512348	<0.10	B512609	<0.10	<0.10	0.10	B512348
Total Potassium (K)	mg/L	1.7	B512348	1.7	B512609	1.8	1.7	0.30	B512348
Total Selenium (Se)	mg/L	<0.00020	B512335	<0.00020	B512587	<0.00020	<0.00020	0.00020	B512335
Total Silicon (Si)	mg/L	0.78	B512348	0.82	B512609	0.76	0.76	0.50	B512348
Total Silver (Ag)	mg/L	<0.00010	B512335	<0.00010	B512587	<0.00010	<0.00010	0.00010	B512335
Total Sodium (Na)	mg/L	2.2	B512348	2.2	B512609	2.2	2.1	0.50	B512348
Total Strontium (Sr)	mg/L	0.031	B512348	0.031	B512609	0.031	0.030	0.020	B512348
Total Sulphur (S)	mg/L	8.6	B512348	8.5	B512609	8.2	8.0	0.20	B512348
Total Thallium (Tl)	mg/L	<0.00020	B512335	<0.00020	B512587	<0.00020	<0.00020	0.00020	B512335
Total Tin (Sn)	mg/L	<0.0010	B512335	<0.0010	B512587	<0.0010	<0.0010	0.0010	B512335
Total Titanium (Ti)	mg/L	<0.0010	B512335	0.0012	B512587	0.0014	0.0013	0.0010	B512335
Total Uranium (U)	mg/L	<0.00010	B512335	<0.00010	B512587	<0.00010	<0.00010	0.00010	B512335
Total Vanadium (V)	mg/L	<0.0010	B512335	<0.0010	B512587	<0.0010	<0.0010	0.0010	B512335
Total Zinc (Zn)	mg/L	0.021	B512335	0.022	B512587	0.022	0.020	0.0030	B512335

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CUU909	CUU910		CUU911		CUU912		
Sampling Date		2024/09/04 10:10	2024/09/04 10:10		2024/09/04 10:00		2024/09/04 10:00		
COC Number		734342-03-01	734342-03-01		734342-03-01		734342-03-01		
	UNITS	CL-5 SFC	CL-5 BTM	QC Batch	CL-6 SFC	QC Batch	CL-6 BTM	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.054	0.051	B505882	0.046	B505882	0.044	0.020	B505882
Total Aluminum (Al)	mg/L	0.042	0.038	B512587	0.046	B512335	0.043	0.0030	B512587
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B512587	<0.00060	B512335	<0.00060	0.00060	B512587
Total Arsenic (As)	mg/L	0.00051	0.00056	B512587	0.00048	B512335	0.00054	0.00020	B512587
Total Barium (Ba)	mg/L	0.011	0.011	B512609	0.010	B512348	0.010	0.010	B512609
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B512587	<0.0010	B512335	<0.0010	0.0010	B512587
Total Boron (B)	mg/L	<0.020	<0.020	B512609	<0.020	B512348	<0.020	0.020	B512609
Total Calcium (Ca)	mg/L	14	14	B512609	13	B512348	13	0.30	B512609
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B512587	<0.0010	B512335	<0.0010	0.0010	B512587
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B512587	<0.00030	B512335	<0.00030	0.00030	B512587
Total Copper (Cu)	mg/L	0.0066	0.0077	B512587	0.0054	B512335	0.0058	0.0010	B512587
Total Iron (Fe)	mg/L	0.38	0.37	B512609	0.24	B512348	0.25	0.060	B512609
Total Lead (Pb)	mg/L	<0.00020	<0.00020	B512587	<0.00020	B512335	<0.00020	0.00020	B512587
Total Lithium (Li)	mg/L	<0.020	<0.020	B512609	<0.020	B512348	<0.020	0.020	B512609
Total Magnesium (Mg)	mg/L	3.8	3.8	B512609	3.6	B512348	3.6	0.20	B512609
Total Manganese (Mn)	mg/L	0.026	0.026	B512609	0.018	B512348	0.018	0.0040	B512609
Total Molybdenum (Mo)	mg/L	0.00027	<0.00020	B512587	<0.00020	B512335	<0.00020	0.00020	B512587
Total Nickel (Ni)	mg/L	<0.00050	<0.00050	B512587	<0.00050	B512335	<0.00050	0.00050	B512587
Total Phosphorus (P)	mg/L	<0.10	<0.10	B512609	<0.10	B512348	<0.10	0.10	B512609
Total Potassium (K)	mg/L	1.7	1.7	B512609	1.6	B512348	1.6	0.30	B512609
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B512587	<0.00020	B512335	<0.00020	0.00020	B512587
Total Silicon (Si)	mg/L	0.67	0.71	B512609	0.59	B512348	0.62	0.50	B512609
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B512587	<0.00010	B512335	<0.00010	0.00010	B512587
Total Sodium (Na)	mg/L	2.2	2.2	B512609	2.1	B512348	2.1	0.50	B512609
Total Strontium (Sr)	mg/L	0.031	0.030	B512609	0.030	B512348	0.030	0.020	B512609
Total Sulphur (S)	mg/L	7.7	7.6	B512609	6.6	B512348	6.5	0.20	B512609
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B512587	<0.00020	B512335	<0.00020	0.00020	B512587
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B512587	<0.0010	B512335	<0.0010	0.0010	B512587
Total Titanium (Ti)	mg/L	0.0017	0.0014	B512587	0.0015	B512335	0.0019	0.0010	B512587
Total Uranium (U)	mg/L	<0.00010	<0.00010	B512587	<0.00010	B512335	<0.00010	0.00010	B512587
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B512587	<0.0010	B512335	<0.0010	0.0010	B512587
Total Zinc (Zn)	mg/L	0.018	0.018	B512587	0.015	B512335	0.013	0.0030	B512587

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CUU913		CUU914	CUU915			CUU915		
Sampling Date		2024/09/04		2024/09/04	2024/09/04			2024/09/04		
COC Number		734342-03-01		734342-03-01	734342-03-01			734342-03-01		
	UNITS	SW-125	QC Batch	SW-126	SW-127	RDL	QC Batch	SW-127 Lab-Dup	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L	0.054	B505882	0.13	0.37	0.020	B505882			
Total Aluminum (Al)	mg/L	0.041	B512587	0.036	0.083	0.0030	B512335	0.079	0.0030	B512335
Total Antimony (Sb)	mg/L	<0.00060	B512587	<0.00060	<0.00060	0.00060	B512335	<0.00060	0.00060	B512335
Total Arsenic (As)	mg/L	0.00059	B512587	0.00042	0.00039	0.00020	B512335	0.00035	0.00020	B512335
Total Barium (Ba)	mg/L	0.011	B512609	<0.010	0.013	0.010	B512348	0.013	0.010	B512348
Total Beryllium (Be)	mg/L	<0.0010	B512587	<0.0010	<0.0010	0.0010	B512335	<0.0010	0.0010	B512335
Total Boron (B)	mg/L	<0.020	B512609	<0.020	<0.020	0.020	B512348	<0.020	0.020	B512348
Total Calcium (Ca)	mg/L	14	B512609	9.6	37	0.30	B512348	36	0.30	B512348
Total Chromium (Cr)	mg/L	<0.0010	B512587	<0.0010	<0.0010	0.0010	B512335	<0.0010	0.0010	B512335
Total Cobalt (Co)	mg/L	<0.00030	B512587	<0.00030	<0.00030	0.00030	B512335	<0.00030	0.00030	B512335
Total Copper (Cu)	mg/L	0.0066	B512587	0.0056	0.013	0.0010	B512335	0.014	0.0010	B512335
Total Iron (Fe)	mg/L	0.37	B512609	0.42	2.6	0.060	B512348	2.6	0.060	B512348
Total Lead (Pb)	mg/L	<0.00020	B512587	<0.00020	<0.00020	0.00020	B512335	<0.00020	0.00020	B512335
Total Lithium (Li)	mg/L	<0.020	B512609	<0.020	<0.020	0.020	B512348	<0.020	0.020	B512348
Total Magnesium (Mg)	mg/L	3.8	B512609	3.0	6.7	0.20	B512348	6.7	0.20	B512348
Total Manganese (Mn)	mg/L	0.025	B512609	0.041	0.016	0.0040	B512348	0.016	0.0040	B512348
Total Molybdenum (Mo)	mg/L	<0.00020	B512587	0.0021	0.0017	0.00020	B512335	0.0013	0.00020	B512335
Total Nickel (Ni)	mg/L	<0.00050	B512587	<0.00050	0.00091	0.00050	B512335	0.0013	0.00050	B512335
Total Phosphorus (P)	mg/L	<0.10	B512609	<0.10	<0.10	0.10	B512348	<0.10	0.10	B512348
Total Potassium (K)	mg/L	1.7	B512609	1.5	3.3	0.30	B512348	3.3	0.30	B512348
Total Selenium (Se)	mg/L	<0.00020	B512587	<0.00020	<0.00020	0.00020	B512335	<0.00020	0.00020	B512335
Total Silicon (Si)	mg/L	0.69	B512609	1.2	0.68	0.50	B512348	0.67	0.50	B512348
Total Silver (Ag)	mg/L	<0.00010	B512587	<0.00010	<0.00010	0.00010	B512335	<0.00010	0.00010	B512335
Total Sodium (Na)	mg/L	2.2	B512609	3.0	2.9	0.50	B512348	2.9	0.50	B512348
Total Strontium (Sr)	mg/L	0.030	B512609	0.024	0.047	0.020	B512348	0.046	0.020	B512348
Total Sulphur (S)	mg/L	7.6	B512609	1.6	35	0.20	B512348	35	0.20	B512348
Total Thallium (Tl)	mg/L	<0.00020	B512587	<0.00020	<0.00020	0.00020	B512335	<0.00020	0.00020	B512335
Total Tin (Sn)	mg/L	<0.0010	B512587	<0.0010	<0.0010	0.0010	B512335	<0.0010	0.0010	B512335
Total Titanium (Ti)	mg/L	0.0016	B512587	0.0011	0.0040	0.0010	B512335	0.0029	0.0010	B512335
Total Uranium (U)	mg/L	<0.00010	B512587	<0.00010	<0.00010	0.00010	B512335	<0.00010	0.00010	B512335
Total Vanadium (V)	mg/L	<0.0010	B512587	<0.0010	<0.0010	0.0010	B512335	<0.0010	0.0010	B512335

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CUU913		CUU914	CUU915			CUU915		
Sampling Date		2024/09/04		2024/09/04	2024/09/04			2024/09/04		
COC Number		734342-03-01		734342-03-01	734342-03-01			734342-03-01		
	UNITS	**SW-125**	**QC Batch**	**SW-126**	**SW-127**	**RDL**	**QC Batch**	**SW-127 Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.018	B512587	0.058	0.093	0.0030	B512335	0.093	0.0030	B512335

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CUU916		
Sampling Date		2024/09/04		
COC Number		734342-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Elements				
Total Cadmium (Cd)	ug/L	<0.020	0.020	B505426
Total Aluminum (Al)	mg/L	<0.0030	0.0030	B512335
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B512335
Total Arsenic (As)	mg/L	<0.00020	0.00020	B512335
Total Barium (Ba)	mg/L	<0.010	0.010	B512348
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B512335
Total Boron (B)	mg/L	<0.020	0.020	B512348
Total Calcium (Ca)	mg/L	<0.30	0.30	B512348
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B512335
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B512335
Total Copper (Cu)	mg/L	<0.0010	0.0010	B512335
Total Iron (Fe)	mg/L	<0.060	0.060	B512348
Total Lead (Pb)	mg/L	<0.00020	0.00020	B512335
Total Lithium (Li)	mg/L	<0.020	0.020	B512348
Total Magnesium (Mg)	mg/L	<0.20	0.20	B512348
Total Manganese (Mn)	mg/L	<0.0040	0.0040	B512348
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B512335
Total Nickel (Ni)	mg/L	<0.00050	0.00050	B512335
Total Phosphorus (P)	mg/L	<0.10	0.10	B512348
Total Potassium (K)	mg/L	<0.30	0.30	B512348
Total Selenium (Se)	mg/L	<0.00020	0.00020	B512335
Total Silicon (Si)	mg/L	<0.50	0.50	B512348
Total Silver (Ag)	mg/L	<0.00010	0.00010	B512335
Total Sodium (Na)	mg/L	<0.50	0.50	B512348
Total Strontium (Sr)	mg/L	<0.020	0.020	B512348
Total Sulphur (S)	mg/L	<0.20	0.20	B512348
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B512335
Total Tin (Sn)	mg/L	<0.0010	0.0010	B512335
Total Titanium (Ti)	mg/L	<0.0010	0.0010	B512335
Total Uranium (U)	mg/L	<0.00010	0.00010	B512335
Total Vanadium (V)	mg/L	<0.0010	0.0010	B512335
Total Zinc (Zn)	mg/L	<0.0030	0.0030	B512335
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CUU889			CUU889			CUU890		
Sampling Date		2024/09/04 12:35			2024/09/04 12:35			2024/09/04 11:20		
COC Number		734342-01-01			734342-01-01			734342-01-01		
	UNITS	SC-1	RDL	QC Batch	SC-1 Lab-Dup	RDL	QC Batch	SB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	36	0.50	B505905				91	0.50	B505905
Total Hardness (CaCO3)	mg/L	35.0	0.50	B505374				87.4	0.50	B505374
Misc. Inorganics										
pH	pH	6.42	N/A	B508088				6.24	N/A	B508088
Total Organic Carbon (C)	mg/L	13	0.50	B510074	13	0.50	B510074	11	0.50	B510074
Total Suspended Solids	mg/L	<1.0	1.0	B507858				1.6	1.0	B507858
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	14	0.50	B508686				12	0.50	B508686
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B508050				<1.0	1.0	B508050
Alkalinity (Total as CaCO3)	mg/L	34	1.0	B508050				16	1.0	B508050
Bicarbonate (HCO3)	mg/L	42	1.0	B508050				20	1.0	B508050
Carbonate (CO3)	mg/L	<1.0	1.0	B508050				<1.0	1.0	B508050
Hydroxide (OH)	mg/L	<1.0	1.0	B508050				<1.0	1.0	B508050
Chloride (Cl)	mg/L	2.1	1.0	B507793				1.2	1.0	B507793
Sulphate (SO4)	mg/L	2.7	1.0	B507793				74	1.0	B507793
Physical Properties										
Turbidity	NTU	2.5	0.10	B505901	2.6	0.10	B505901	7.7	0.10	B505901

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CUU891			CUU891			CUU892		
Sampling Date		2024/09/04 11:15			2024/09/04 11:15			2024/09/04 11:25		
COC Number		734342-01-01			734342-01-01			734342-01-01		
	UNITS	SB-2	RDL	QC Batch	SB-2 Lab-Dup	RDL	QC Batch	CB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	89	0.50	B505905				93	0.50	B505905
Total Hardness (CaCO3)	mg/L	84.0	0.50	B505374				88.4	0.50	B505374
Misc. Inorganics										
pH	pH	6.15	N/A	B508088	6.21	N/A	B508088	6.16	N/A	B508045
Total Organic Carbon (C)	mg/L	10	0.50	B509793				11	0.50	B510074
Total Suspended Solids	mg/L	1.1	1.0	B507858				2.0	1.0	B507858
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B510372				12	0.50	B508686
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B508050	<1.0	1.0	B508050	<1.0	1.0	B508017
Alkalinity (Total as CaCO3)	mg/L	16	1.0	B508050	16	1.0	B508050	16	1.0	B508017
Bicarbonate (HCO3)	mg/L	20	1.0	B508050	19	1.0	B508050	19	1.0	B508017
Carbonate (CO3)	mg/L	<1.0	1.0	B508050	<1.0	1.0	B508050	<1.0	1.0	B508017
Hydroxide (OH)	mg/L	<1.0	1.0	B508050	<1.0	1.0	B508050	<1.0	1.0	B508017
Chloride (Cl)	mg/L	1.4	1.0	B507793				1.2	1.0	B507793
Sulphate (SO4)	mg/L	73	1.0	B507793				77	1.0	B507793
Physical Properties										
Turbidity	NTU	7.5	0.10	B505901				7.4	0.10	B505901

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CUU892			CUU893		CUU894		
Sampling Date		2024/09/04 11:25			2024/09/04 11:30		2024/09/04 11:35		
COC Number		734342-01-01			734342-01-01		734342-01-01		
	UNITS	CB-1 Lab-Dup	RDL	QC Batch	CB-2	QC Batch	EB-1	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				95	B505905	120	0.50	B505905
Total Hardness (CaCO3)	mg/L				91.7	B505374	112	0.50	B505374
Misc. Inorganics									
pH	pH	6.23	N/A	B508045	6.22	B508088	6.25	N/A	B508088
Total Organic Carbon (C)	mg/L				11	B509793	10	0.50	B509793
Total Suspended Solids	mg/L				1.7	B507858	1.1	1.0	B507858
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L				12	B508686	11	0.50	B508686
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B508017	<1.0	B508050	<1.0	1.0	B508050
Alkalinity (Total as CaCO3)	mg/L	16	1.0	B508017	15	B508050	14	1.0	B508050
Bicarbonate (HCO3)	mg/L	20	1.0	B508017	18	B508050	17	1.0	B508050
Carbonate (CO3)	mg/L	<1.0	1.0	B508017	<1.0	B508050	<1.0	1.0	B508050
Hydroxide (OH)	mg/L	<1.0	1.0	B508017	<1.0	B508050	<1.0	1.0	B508050
Chloride (Cl)	mg/L				1.3	B507793	<1.0	1.0	B507657
Sulphate (SO4)	mg/L				81	B507793	110	1.0	B507657
Physical Properties									
Turbidity	NTU				7.4	B505901	6.1	0.10	B505901

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C469709
Report Date: 2024/09/13

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CUU894			CUU895		CUU896	CUU897		
Sampling Date		2024/09/04 11:35			2024/09/04 11:40		2024/09/04 11:50	2024/09/04 11:45		
COC Number		734342-01-01			734342-01-01		734342-01-01	734342-01-01		
	UNITS	EB-1 Lab-Dup	RDL	QC Batch	EB-2	QC Batch	NB-1	NB-2	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				130	B505905	100	100	0.50	B505905
Total Hardness (CaCO3)	mg/L				118	B505374	102	98.5	0.50	B505374
Misc. Inorganics										
pH	pH				6.20	B508088	6.21	6.23	N/A	B508088
Total Organic Carbon (C)	mg/L				9.7	B509793	11	11	0.50	B510074
Total Suspended Solids	mg/L				<1.0	B507858	2.5	<1.0	1.0	B507858
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L				11	B508686	11	10	0.50	B510372
Anions										
Alkalinity (PP as CaCO3)	mg/L				<1.0	B508050	<1.0	<1.0	1.0	B508050
Alkalinity (Total as CaCO3)	mg/L				14	B508050	15	16	1.0	B508050
Bicarbonate (HCO3)	mg/L				17	B508050	18	20	1.0	B508050
Carbonate (CO3)	mg/L				<1.0	B508050	<1.0	<1.0	1.0	B508050
Hydroxide (OH)	mg/L				<1.0	B508050	<1.0	<1.0	1.0	B508050
Chloride (Cl)	mg/L	<1.0	1.0	B507657	<1.0	B507793	1.4	<1.0	1.0	B507792
Sulphate (SO4)	mg/L	100	1.0	B507657	120	B507793	94	88	1.0	B507792
Physical Properties										
Turbidity	NTU				6.4	B505901	6.0	5.9	0.10	B505901

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CUU898		CUU899		CUU900		CUU901		
Sampling Date		2024/09/04 11:55		2024/09/04 10:30		2024/09/04 10:30		2024/09/04 10:35		
COC Number		734342-01-01		734342-02-01		734342-02-01		734342-02-01		
	UNITS	CLD	QC Batch	CL-3 SFC	QC Batch	CL-3 BTM	QC Batch	CL-7 SFC	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	100	B505905	56	B505905	56	B505905	54	0.50	B505905
Total Hardness (CaCO3)	mg/L	103	B505374	52.3	B505374	53.9	B505374	54.6	0.50	B505374
Misc. Inorganics										
pH	pH	6.22	B508088	6.38	B508045	6.38	B508045	6.37	N/A	B508088
Total Organic Carbon (C)	mg/L	10	B509793	10	B511579	10	B510074	10	0.50	B510074
Total Suspended Solids	mg/L	1.5	B507858	1.6	B509472	1.7	B509472	1.1	1.0	B509472
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	12	B508686	11	B508686	10	B510365	11	0.50	B510372
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	B508050	<1.0	B508017	<1.0	B508017	<1.0	1.0	B508050
Alkalinity (Total as CaCO3)	mg/L	16	B508050	28	B508017	32	B508017	27	1.0	B508050
Bicarbonate (HCO3)	mg/L	19	B508050	35	B508017	39	B508017	33	1.0	B508050
Carbonate (CO3)	mg/L	<1.0	B508050	<1.0	B508017	<1.0	B508017	<1.0	1.0	B508050
Hydroxide (OH)	mg/L	<1.0	B508050	<1.0	B508017	<1.0	B508017	<1.0	1.0	B508050
Chloride (Cl)	mg/L	1.0	B507792	<1.0	B507611	<1.0	B507611	<1.0	1.0	B507792
Sulphate (SO4)	mg/L	93	B507792	31	B507611	32	B507611	30	1.0	B507792
Physical Properties										
Turbidity	NTU	6.2	B505901	3.0	B505901	3.1	B505901	3.4	0.10	B505901

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C469709
Report Date: 2024/09/13

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CUU902		CUU903			CUU903		
Sampling Date		2024/09/04 10:35		2024/09/04 10:25			2024/09/04 10:25		
COC Number		734342-02-01		734342-02-01			734342-02-01		
	UNITS	CL-7 BTM	QC Batch	CL-8 SFC	RDL	QC Batch	CL-8 SFC Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	54	B505905	53	0.50	B505905			
Total Hardness (CaCO3)	mg/L	52.2	B505374	50.6	0.50	B505374			
Misc. Inorganics									
pH	pH	6.37	B508088	6.40	N/A	B508045			
Total Organic Carbon (C)	mg/L	10	B510074	11	0.50	B511579	11	0.50	B511579
Total Suspended Solids	mg/L	2.0	B509472	1.8	1.0	B509472			
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	13	B510372	11	0.50	B508686			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B508050	<1.0	1.0	B508017			
Alkalinity (Total as CaCO3)	mg/L	30	B508050	30	1.0	B508017			
Bicarbonate (HCO3)	mg/L	37	B508050	37	1.0	B508017			
Carbonate (CO3)	mg/L	<1.0	B508050	<1.0	1.0	B508017			
Hydroxide (OH)	mg/L	<1.0	B508050	<1.0	1.0	B508017			
Chloride (Cl)	mg/L	<1.0	B507792	<1.0	1.0	B507611			
Sulphate (SO4)	mg/L	30	B507792	28	1.0	B507611			
Physical Properties									
Turbidity	NTU	2.8	B505901	2.7	0.10	B505901			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C469709
Report Date: 2024/09/13

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CUU904		CUU905		CUU906		CUU907		
Sampling Date		2024/09/04 10:25		2024/09/04 10:45		2024/09/04 10:45		2024/09/04 10:15		
COC Number		734342-02-01		734342-02-01		734342-02-01		734342-02-01		
	UNITS	CL-8 BTM	QC Batch	CL-2 SFC	QC Batch	CL-2 BTM	QC Batch	CL-4 SFC	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	56	B505905	53	B505905	54	B505905	54	0.50	B505905
Total Hardness (CaCO3)	mg/L	52.5	B505374	51.8	B505374	52.2	B505374	51.1	0.50	B505374
Misc. Inorganics										
pH	pH	6.42	B508045	6.39	B508045	6.38	B508045	6.42	N/A	B508045
Total Organic Carbon (C)	mg/L	11	B511579	11	B510074	10	B509793	10	0.50	B509793
Total Suspended Solids	mg/L	1.9	B509472	1.1	B509472	1.2	B509472	1.3	1.0	B509472
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10	B508686	10	B510365	10	B510372	11	0.50	B508686
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	B508017	<1.0	B508017	<1.0	B508017	<1.0	1.0	B508017
Alkalinity (Total as CaCO3)	mg/L	30	B508017	32	B508017	30	B508017	26	1.0	B508017
Bicarbonate (HCO3)	mg/L	36	B508017	39	B508017	37	B508017	32	1.0	B508017
Carbonate (CO3)	mg/L	<1.0	B508017	<1.0	B508017	<1.0	B508017	<1.0	1.0	B508017
Hydroxide (OH)	mg/L	<1.0	B508017	<1.0	B508017	<1.0	B508017	<1.0	1.0	B508017
Chloride (Cl)	mg/L	<1.0	B507613	<1.0	B507611	<1.0	B507612	<1.0	1.0	B507612
Sulphate (SO4)	mg/L	29	B507613	29	B507611	29	B507612	28	1.0	B507612
Physical Properties										
Turbidity	NTU	3.0	B505901	2.5	B505901	2.4	B505901	3.1	0.10	B505901

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C469709
Report Date: 2024/09/13

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CUU908		CUU909			CUU909		
Sampling Date		2024/09/04 10:15		2024/09/04 10:10			2024/09/04 10:10		
COC Number		734342-02-01		734342-03-01			734342-03-01		
	UNITS	CL-4 BTM	QC Batch	CL-5 SFC	RDL	QC Batch	CL-5 SFC Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	52	B505905	51	0.50	B505905			
Total Hardness (CaCO3)	mg/L	49.8	B505374	50.9	0.50	B505374			
Misc. Inorganics									
pH	pH	6.40	B508045	6.41	N/A	B508045			
Total Organic Carbon (C)	mg/L	10	B509793	11	0.50	B510074			
Total Suspended Solids	mg/L	2.0	B509472	<1.0	1.0	B509472			
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	10	B510365	11	0.50	B508686			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B508017	<1.0	1.0	B508017			
Alkalinity (Total as CaCO3)	mg/L	30	B508017	28	1.0	B508017			
Bicarbonate (HCO3)	mg/L	37	B508017	35	1.0	B508017			
Carbonate (CO3)	mg/L	<1.0	B508017	<1.0	1.0	B508017			
Hydroxide (OH)	mg/L	<1.0	B508017	<1.0	1.0	B508017			
Chloride (Cl)	mg/L	<1.0	B507612	<1.0	1.0	B507611			
Sulphate (SO4)	mg/L	27	B507612	26	1.0	B507611			
Physical Properties									
Turbidity	NTU	2.9	B505901	2.7	0.10	B505902	3.1	0.10	B505902

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C469709
Report Date: 2024/09/13

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CUU910		CUU911		CUU912		CUU913		
Sampling Date		2024/09/04 10:10		2024/09/04 10:00		2024/09/04 10:00		2024/09/04		
COC Number		734342-03-01		734342-03-01		734342-03-01		734342-03-01		
	UNITS	CL-5 BTM	QC Batch	CL-6 SFC	QC Batch	CL-6 BTM	QC Batch	SW-125	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	51	B505905	47	B505905	48	B505905	51	0.50	B505905
Total Hardness (CaCO3)	mg/L	50.0	B505910	46.4	B505910	47.0	B505910	49.6	0.50	B505910
Misc. Inorganics										
pH	pH	6.40	B508045	6.41	B508045	6.38	B508088	6.38	N/A	B508088
Total Organic Carbon (C)	mg/L	9.9	B509793	10	B509793	9.5	B510074	9.7	0.50	B510074
Total Suspended Solids	mg/L	1.5	B509472	2.3	B509472	2.1	B509472	1.7	1.0	B509472
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	B508686	10	B510372	10	B508686	10	0.50	B510365
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	B508017	<1.0	B508017	<1.0	B508050	<1.0	1.0	B508050
Alkalinity (Total as CaCO3)	mg/L	28	B508017	29	B508017	31	B508050	31	1.0	B508050
Bicarbonate (HCO3)	mg/L	35	B508017	36	B508017	37	B508050	38	1.0	B508050
Carbonate (CO3)	mg/L	<1.0	B508017	<1.0	B508017	<1.0	B508050	<1.0	1.0	B508050
Hydroxide (OH)	mg/L	<1.0	B508017	<1.0	B508017	<1.0	B508050	<1.0	1.0	B508050
Chloride (Cl)	mg/L	<1.0	B507612	<1.0	B507612	<1.0	B507611	<1.0	1.0	B507611
Sulphate (SO4)	mg/L	26	B507612	22	B507612	22	B507611	26	1.0	B507611
Physical Properties										
Turbidity	NTU	2.5	B505902	2.2	B505902	2.5	B505902	2.7	0.10	B505902

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CUU914		CUU915		CUU916		
Sampling Date		2024/09/04		2024/09/04		2024/09/04		
COC Number		734342-03-01		734342-03-01		734342-03-01		
	UNITS	**SW-126**	**QC Batch**	**SW-127**	**QC Batch**	**TRIP BLANK**	**RDL**	**QC Batch**
Calculated Parameters								
Hardness (CaCO3)	mg/L	36	B505905	130	B505905	<0.50	0.50	B505718
Total Hardness (CaCO3)	mg/L	36.1	B505910	119	B505910	<0.50	0.50	B505374
Misc. Inorganics								
pH	pH	6.45	B508045	6.21	B508088	5.39	N/A	B508088
Total Organic Carbon (C)	mg/L	13	B510074	9.7	B510074	<0.50	0.50	B509793
Total Suspended Solids	mg/L	<1.0	B509472	2.3	B509472	1.5	1.0	B509472
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	14	B508686	11	B508686	<0.50	0.50	B508686
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B508017	<1.0	B508050	<1.0	1.0	B508050
Alkalinity (Total as CaCO3)	mg/L	34	B508017	14	B508050	<1.0	1.0	B508050
Bicarbonate (HCO3)	mg/L	42	B508017	17	B508050	<1.0	1.0	B508050
Carbonate (CO3)	mg/L	<1.0	B508017	<1.0	B508050	<1.0	1.0	B508050
Hydroxide (OH)	mg/L	<1.0	B508017	<1.0	B508050	<1.0	1.0	B508050
Chloride (Cl)	mg/L	2.0	B507611	<1.0	B507611	<1.0	1.0	B507611
Sulphate (SO4)	mg/L	2.7	B507611	120	B507611	<1.0	1.0	B507611
Physical Properties								
Turbidity	NTU	2.2	B505902	5.9	B505902	<0.10	0.10	B505902

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	1.8°C
Package 2	2.8°C
Package 3	1.1°C
Package 4	2.4°C

Sample CUU893, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CUU895, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CUU909, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CUU913, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B505901	Turbidity	2024/09/06			100	80 - 120	<0.10	NTU	4.7	20
B505902	Turbidity	2024/09/06			101	80 - 120	<0.10	NTU	13	20
B507611	Chloride (Cl)	2024/09/08	102	80 - 120	102	80 - 120	<1.0	mg/L	0.69	20
B507611	Sulphate (SO4)	2024/09/08	NC	80 - 120	106	80 - 120	<1.0	mg/L	0.32	20
B507612	Chloride (Cl)	2024/09/08	103	80 - 120	100	80 - 120	<1.0	mg/L	NC	20
B507612	Sulphate (SO4)	2024/09/08	108	80 - 120	108	80 - 120	<1.0	mg/L	NC	20
B507613	Chloride (Cl)	2024/09/08	100	80 - 120	101	80 - 120	<1.0	mg/L	3.3	20
B507613	Sulphate (SO4)	2024/09/08	NC	80 - 120	106	80 - 120	<1.0	mg/L	1.1	20
B507654	Dissolved Barium (Ba)	2024/09/08	98	80 - 120	99	80 - 120	<0.010	mg/L	NC	20
B507654	Dissolved Boron (B)	2024/09/08	99	80 - 120	95	80 - 120	<0.020	mg/L	NC	20
B507654	Dissolved Calcium (Ca)	2024/09/08	102	80 - 120	99	80 - 120	<0.30	mg/L	0.80	20
B507654	Dissolved Iron (Fe)	2024/09/08	104	80 - 120	98	80 - 120	<0.060	mg/L	1.6	20
B507654	Dissolved Lithium (Li)	2024/09/08	95	80 - 120	93	80 - 120	<0.020	mg/L	NC	20
B507654	Dissolved Magnesium (Mg)	2024/09/08	102	80 - 120	100	80 - 120	<0.20	mg/L	0.87	20
B507654	Dissolved Manganese (Mn)	2024/09/08	100	80 - 120	96	80 - 120	<0.0040	mg/L	0.23	20
B507654	Dissolved Phosphorus (P)	2024/09/08	103	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B507654	Dissolved Potassium (K)	2024/09/08	101	80 - 120	100	80 - 120	<0.30	mg/L	2.7	20
B507654	Dissolved Silicon (Si)	2024/09/08	95	80 - 120	93	80 - 120	<0.50	mg/L	2.6	20
B507654	Dissolved Sodium (Na)	2024/09/08	98	80 - 120	97	80 - 120	<0.50	mg/L	1.0	20
B507654	Dissolved Strontium (Sr)	2024/09/08	95	80 - 120	96	80 - 120	<0.020	mg/L	0	20
B507654	Dissolved Sulphur (S)	2024/09/08	102	80 - 120	93	80 - 120	<0.20	mg/L	1.5	20
B507657	Chloride (Cl)	2024/09/08	102	80 - 120	98	80 - 120	<1.0	mg/L	NC	20
B507657	Sulphate (SO4)	2024/09/08	NC	80 - 120	101	80 - 120	<1.0	mg/L	0.58	20
B507689	Dissolved Aluminum (Al)	2024/09/09	108	80 - 120	117	80 - 120	<0.0030	mg/L	NC	20
B507689	Dissolved Antimony (Sb)	2024/09/09	101	80 - 120	105	80 - 120	<0.00060	mg/L	NC	20
B507689	Dissolved Arsenic (As)	2024/09/09	103	80 - 120	110	80 - 120	<0.00020	mg/L	2.8	20
B507689	Dissolved Beryllium (Be)	2024/09/09	102	80 - 120	107	80 - 120	<0.0010	mg/L	NC	20
B507689	Dissolved Chromium (Cr)	2024/09/09	98	80 - 120	111	80 - 120	<0.0010	mg/L	NC	20
B507689	Dissolved Cobalt (Co)	2024/09/09	98	80 - 120	110	80 - 120	<0.00030	mg/L	0.97	20
B507689	Dissolved Copper (Cu)	2024/09/09	97	80 - 120	111	80 - 120	<0.0010	mg/L	NC	20
B507689	Dissolved Lead (Pb)	2024/09/09	95	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20
B507689	Dissolved Molybdenum (Mo)	2024/09/09	98	80 - 120	103	80 - 120	<0.00020	mg/L	0.67	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B507689	Dissolved Nickel (Ni)	2024/09/09	95	80 - 120	109	80 - 120	<0.00050	mg/L	1.6	20
B507689	Dissolved Selenium (Se)	2024/09/09	102	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B507689	Dissolved Silver (Ag)	2024/09/09	98	80 - 120	105	80 - 120	<0.00010	mg/L	NC	20
B507689	Dissolved Thallium (Tl)	2024/09/09	92	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B507689	Dissolved Tin (Sn)	2024/09/09	100	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B507689	Dissolved Titanium (Ti)	2024/09/09	101	80 - 120	110	80 - 120	<0.0010	mg/L	NC	20
B507689	Dissolved Uranium (U)	2024/09/09	95	80 - 120	100	80 - 120	<0.00010	mg/L	1.5	20
B507689	Dissolved Vanadium (V)	2024/09/09	102	80 - 120	108	80 - 120	<0.0010	mg/L	NC	20
B507689	Dissolved Zinc (Zn)	2024/09/09	101	80 - 120	109	80 - 120	<0.0030	mg/L	NC	20
B507692	Dissolved Aluminum (Al)	2024/09/09	105	80 - 120	113	80 - 120	<0.0030	mg/L	12	20
B507692	Dissolved Antimony (Sb)	2024/09/09	108	80 - 120	108	80 - 120	<0.00060	mg/L	NC	20
B507692	Dissolved Arsenic (As)	2024/09/09	111	80 - 120	109	80 - 120	<0.00020	mg/L	NC	20
B507692	Dissolved Beryllium (Be)	2024/09/09	106	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20
B507692	Dissolved Chromium (Cr)	2024/09/09	105	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20
B507692	Dissolved Cobalt (Co)	2024/09/09	106	80 - 120	105	80 - 120	<0.00030	mg/L	NC	20
B507692	Dissolved Copper (Cu)	2024/09/09	106	80 - 120	108	80 - 120	<0.0010	mg/L	1.2	20
B507692	Dissolved Lead (Pb)	2024/09/09	103	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B507692	Dissolved Molybdenum (Mo)	2024/09/09	102	80 - 120	103	80 - 120	<0.00020	mg/L	10	20
B507692	Dissolved Nickel (Ni)	2024/09/09	105	80 - 120	105	80 - 120	<0.00050	mg/L	5.1	20
B507692	Dissolved Selenium (Se)	2024/09/09	108	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B507692	Dissolved Silver (Ag)	2024/09/09	104	80 - 120	105	80 - 120	<0.00010	mg/L	NC	20
B507692	Dissolved Thallium (Tl)	2024/09/09	98	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B507692	Dissolved Tin (Sn)	2024/09/09	104	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
B507692	Dissolved Titanium (Ti)	2024/09/09	106	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B507692	Dissolved Uranium (U)	2024/09/09	102	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20
B507692	Dissolved Vanadium (V)	2024/09/09	107	80 - 120	107	80 - 120	<0.0010	mg/L	NC	20
B507692	Dissolved Zinc (Zn)	2024/09/09	NC	80 - 120	107	80 - 120	<0.0030	mg/L	4.8	20
B507792	Chloride (Cl)	2024/09/08	82	80 - 120	95	80 - 120	<1.0	mg/L	0.32	20
B507792	Sulphate (SO4)	2024/09/08	NC	80 - 120	105	80 - 120	<1.0	mg/L		
B507793	Chloride (Cl)	2024/09/08	103	80 - 120	102	80 - 120	<1.0	mg/L	2.0	20
B507793	Sulphate (SO4)	2024/09/08	94	80 - 120	109	80 - 120	<1.0	mg/L	0.43	20
B507858	Total Suspended Solids	2024/09/10	100	80 - 120	94	80 - 120	<1.0	mg/L	1.6	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B508017	Alkalinity (PP as CaCO3)	2024/09/09					<1.0	mg/L	NC	20
B508017	Alkalinity (Total as CaCO3)	2024/09/09			97	80 - 120	<1.0	mg/L	3.5	20
B508017	Bicarbonate (HCO3)	2024/09/09					<1.0	mg/L	3.5	20
B508017	Carbonate (CO3)	2024/09/09					<1.0	mg/L	NC	20
B508017	Hydroxide (OH)	2024/09/09					<1.0	mg/L	NC	20
B508045	pH	2024/09/09			100	97 - 103			1.2	N/A
B508050	Alkalinity (PP as CaCO3)	2024/09/09					<1.0	mg/L	NC	20
B508050	Alkalinity (Total as CaCO3)	2024/09/09			96	80 - 120	<1.0	mg/L	2.6	20
B508050	Bicarbonate (HCO3)	2024/09/09					<1.0	mg/L	2.6	20
B508050	Carbonate (CO3)	2024/09/09					<1.0	mg/L	NC	20
B508050	Hydroxide (OH)	2024/09/09					<1.0	mg/L	NC	20
B508088	pH	2024/09/09			100	97 - 103			0.90	N/A
B508108	Dissolved Barium (Ba)	2024/09/09	98	80 - 120	101	80 - 120	<0.010	mg/L	6.8	20
B508108	Dissolved Boron (B)	2024/09/09	94	80 - 120	95	80 - 120	<0.020	mg/L	0.096	20
B508108	Dissolved Calcium (Ca)	2024/09/09	101	80 - 120	101	80 - 120	<0.30	mg/L	4.5	20
B508108	Dissolved Iron (Fe)	2024/09/09	98	80 - 120	104	80 - 120	<0.060	mg/L	NC	20
B508108	Dissolved Lithium (Li)	2024/09/09	103	80 - 120	101	80 - 120	<0.020	mg/L	NC	20
B508108	Dissolved Magnesium (Mg)	2024/09/09	103	80 - 120	102	80 - 120	<0.20	mg/L	3.7	20
B508108	Dissolved Manganese (Mn)	2024/09/09	98	80 - 120	103	80 - 120	<0.0040	mg/L	1.7	20
B508108	Dissolved Phosphorus (P)	2024/09/09	100	80 - 120	100	80 - 120	<0.10	mg/L	NC	20
B508108	Dissolved Potassium (K)	2024/09/09	101	80 - 120	102	80 - 120	<0.30	mg/L	7.9	20
B508108	Dissolved Silicon (Si)	2024/09/09	91	80 - 120	97	80 - 120	<0.50	mg/L	1.1	20
B508108	Dissolved Sodium (Na)	2024/09/09	104	80 - 120	103	80 - 120	<0.50	mg/L	0.97	20
B508108	Dissolved Strontium (Sr)	2024/09/09	97	80 - 120	101	80 - 120	<0.020	mg/L	4.0	20
B508108	Dissolved Sulphur (S)	2024/09/09	97	80 - 120	98	80 - 120	<0.20	mg/L	5.0	20
B508314	Dissolved Barium (Ba)	2024/09/09	97	80 - 120	101	80 - 120	<0.010	mg/L		
B508314	Dissolved Boron (B)	2024/09/09	95	80 - 120	97	80 - 120	<0.020	mg/L		
B508314	Dissolved Calcium (Ca)	2024/09/09	97	80 - 120	107	80 - 120	<0.30	mg/L	1.9	20
B508314	Dissolved Iron (Fe)	2024/09/09	95	80 - 120	109	80 - 120	<0.060	mg/L	NC	20
B508314	Dissolved Lithium (Li)	2024/09/09	96	80 - 120	104	80 - 120	<0.020	mg/L		
B508314	Dissolved Magnesium (Mg)	2024/09/09	95	80 - 120	103	80 - 120	<0.20	mg/L	1.7	20
B508314	Dissolved Manganese (Mn)	2024/09/09	93	80 - 120	108	80 - 120	<0.0040	mg/L	13	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B508314	Dissolved Phosphorus (P)	2024/09/09	97	80 - 120	102	80 - 120	<0.10	mg/L		
B508314	Dissolved Potassium (K)	2024/09/09	96	80 - 120	108	80 - 120	<0.30	mg/L	5.3	20
B508314	Dissolved Silicon (Si)	2024/09/09	94	80 - 120	97	80 - 120	<0.50	mg/L		
B508314	Dissolved Sodium (Na)	2024/09/09	88	80 - 120	107	80 - 120	<0.50	mg/L	0.77	20
B508314	Dissolved Strontium (Sr)	2024/09/09	96	80 - 120	101	80 - 120	<0.020	mg/L		
B508314	Dissolved Sulphur (S)	2024/09/09	99	80 - 120	100	80 - 120	<0.20	mg/L		
B508421	Dissolved Barium (Ba)	2024/09/09	99	80 - 120	101	80 - 120	<0.010	mg/L		
B508421	Dissolved Boron (B)	2024/09/09	98	80 - 120	98	80 - 120	<0.020	mg/L		
B508421	Dissolved Calcium (Ca)	2024/09/09	98	80 - 120	100	80 - 120	<0.30	mg/L	0.75	20
B508421	Dissolved Iron (Fe)	2024/09/09	87	80 - 120	109	80 - 120	<0.060	mg/L	2.6	20
B508421	Dissolved Lithium (Li)	2024/09/09	96	80 - 120	97	80 - 120	<0.020	mg/L		
B508421	Dissolved Magnesium (Mg)	2024/09/09	97	80 - 120	104	80 - 120	<0.20	mg/L	0.058	20
B508421	Dissolved Manganese (Mn)	2024/09/09	85	80 - 120	108	80 - 120	<0.0040	mg/L	NC	20
B508421	Dissolved Phosphorus (P)	2024/09/09	96	80 - 120	103	80 - 120	<0.10	mg/L		
B508421	Dissolved Potassium (K)	2024/09/09	98	80 - 120	101	80 - 120	<0.30	mg/L	0.69	20
B508421	Dissolved Silicon (Si)	2024/09/09	93	80 - 120	98	80 - 120	<0.50	mg/L		
B508421	Dissolved Sodium (Na)	2024/09/09	96	80 - 120	101	80 - 120	<0.50	mg/L	0.48	20
B508421	Dissolved Strontium (Sr)	2024/09/09	98	80 - 120	101	80 - 120	<0.020	mg/L		
B508421	Dissolved Sulphur (S)	2024/09/09	98	80 - 120	100	80 - 120	<0.20	mg/L		
B508677	Dissolved Barium (Ba)	2024/09/09	98	80 - 120	97	80 - 120	<0.010	mg/L		
B508677	Dissolved Boron (B)	2024/09/09	98	80 - 120	96	80 - 120	<0.020	mg/L		
B508677	Dissolved Calcium (Ca)	2024/09/09	99	80 - 120	94	80 - 120	<0.30	mg/L	NC	20
B508677	Dissolved Iron (Fe)	2024/09/09	100	80 - 120	96	80 - 120	<0.060	mg/L	NC	20
B508677	Dissolved Lithium (Li)	2024/09/09	97	80 - 120	94	80 - 120	<0.020	mg/L		
B508677	Dissolved Magnesium (Mg)	2024/09/09	98	80 - 120	93	80 - 120	<0.20	mg/L	NC	20
B508677	Dissolved Manganese (Mn)	2024/09/09	97	80 - 120	92	80 - 120	<0.0040	mg/L	NC	20
B508677	Dissolved Phosphorus (P)	2024/09/09	100	80 - 120	95	80 - 120	<0.10	mg/L		
B508677	Dissolved Potassium (K)	2024/09/09	99	80 - 120	95	80 - 120	<0.30	mg/L	NC	20
B508677	Dissolved Silicon (Si)	2024/09/09	92	80 - 120	90	80 - 120	<0.50	mg/L		
B508677	Dissolved Sodium (Na)	2024/09/09	99	80 - 120	95	80 - 120	<0.50	mg/L	NC	20
B508677	Dissolved Strontium (Sr)	2024/09/09	94	80 - 120	94	80 - 120	<0.020	mg/L		
B508677	Dissolved Sulphur (S)	2024/09/09	97	80 - 120	92	80 - 120	<0.20	mg/L		

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B508686	Dissolved Organic Carbon (C)	2024/09/09	101	75 - 125	103	80 - 120	<0.50	mg/L	2.5	20
B509472	Total Suspended Solids	2024/09/10	103	80 - 120	95	80 - 120	<1.0	mg/L	6.1	20
B509793	Total Organic Carbon (C)	2024/09/10	102	75 - 125	95	80 - 120	<0.50	mg/L	4.1	20
B510074	Total Organic Carbon (C)	2024/09/10	NC	75 - 125	98	80 - 120	<0.50	mg/L	1.9	20
B510365	Dissolved Organic Carbon (C)	2024/09/10	101	75 - 125	94	80 - 120	<0.50	mg/L	6.9	20
B510372	Dissolved Organic Carbon (C)	2024/09/10	90	75 - 125	96	80 - 120	<0.50	mg/L	4.7	20
B511579	Total Organic Carbon (C)	2024/09/11	NC	75 - 125	100	80 - 120	<0.50	mg/L	0.82	20
B512335	Total Aluminum (Al)	2024/09/11	113	80 - 120	107	80 - 120	<0.0030	mg/L	5.2	20
B512335	Total Antimony (Sb)	2024/09/11	111	80 - 120	107	80 - 120	<0.00060	mg/L	NC	20
B512335	Total Arsenic (As)	2024/09/11	108	80 - 120	104	80 - 120	<0.00020	mg/L	11	20
B512335	Total Beryllium (Be)	2024/09/11	97	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B512335	Total Chromium (Cr)	2024/09/11	102	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B512335	Total Cobalt (Co)	2024/09/11	102	80 - 120	99	80 - 120	<0.00030	mg/L	NC	20
B512335	Total Copper (Cu)	2024/09/11	101	80 - 120	98	80 - 120	<0.0010	mg/L	6.6	20
B512335	Total Lead (Pb)	2024/09/11	106	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B512335	Total Molybdenum (Mo)	2024/09/11	107	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B512335	Total Nickel (Ni)	2024/09/11	100	80 - 120	98	80 - 120	<0.00050	mg/L	NC	20
B512335	Total Selenium (Se)	2024/09/11	102	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B512335	Total Silver (Ag)	2024/09/11	103	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20
B512335	Total Thallium (Tl)	2024/09/11	104	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B512335	Total Tin (Sn)	2024/09/11	109	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
B512335	Total Titanium (Ti)	2024/09/11	101	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B512335	Total Uranium (U)	2024/09/11	107	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20
B512335	Total Vanadium (V)	2024/09/11	104	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B512335	Total Zinc (Zn)	2024/09/11	105	80 - 120	99	80 - 120	<0.0030	mg/L	0.11	20
B512348	Total Barium (Ba)	2024/09/11	103	80 - 120	104	80 - 120	<0.010	mg/L	0.39	20
B512348	Total Boron (B)	2024/09/11	100	80 - 120	101	80 - 120	<0.020	mg/L	NC	20
B512348	Total Calcium (Ca)	2024/09/11	103	80 - 120	102	80 - 120	<0.30	mg/L	0.88	20
B512348	Total Iron (Fe)	2024/09/11	NC	80 - 120	114	80 - 120	<0.060	mg/L	0.29	20
B512348	Total Lithium (Li)	2024/09/11	101	80 - 120	100	80 - 120	<0.020	mg/L	NC	20
B512348	Total Magnesium (Mg)	2024/09/11	108	80 - 120	107	80 - 120	<0.20	mg/L	0.23	20
B512348	Total Manganese (Mn)	2024/09/11	112	80 - 120	112	80 - 120	<0.0040	mg/L	0.88	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B512348	Total Phosphorus (P)	2024/09/11	106	80 - 120	105	80 - 120	<0.10	mg/L	NC	20
B512348	Total Potassium (K)	2024/09/11	102	80 - 120	102	80 - 120	<0.30	mg/L	0.98	20
B512348	Total Silicon (Si)	2024/09/11	103	80 - 120	103	80 - 120	<0.50	mg/L	2.0	20
B512348	Total Sodium (Na)	2024/09/11	103	80 - 120	103	80 - 120	<0.50	mg/L	0.89	20
B512348	Total Strontium (Sr)	2024/09/11	102	80 - 120	103	80 - 120	<0.020	mg/L	0.49	20
B512348	Total Sulphur (S)	2024/09/11	104	80 - 120	103	80 - 120	<0.20	mg/L	0.48	20
B512587	Total Aluminum (Al)	2024/09/12	101	80 - 120	103	80 - 120	<0.0030	mg/L	8.0	20
B512587	Total Antimony (Sb)	2024/09/12	101	80 - 120	108	80 - 120	<0.00060	mg/L	NC	20
B512587	Total Arsenic (As)	2024/09/12	103	80 - 120	110	80 - 120	<0.00020	mg/L	13	20
B512587	Total Beryllium (Be)	2024/09/12	99	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B512587	Total Chromium (Cr)	2024/09/12	99	80 - 120	107	80 - 120	<0.0010	mg/L	NC	20
B512587	Total Cobalt (Co)	2024/09/12	99	80 - 120	108	80 - 120	<0.00030	mg/L	NC	20
B512587	Total Copper (Cu)	2024/09/12	97	80 - 120	109	80 - 120	<0.0010	mg/L	10	20
B512587	Total Lead (Pb)	2024/09/12	95	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20
B512587	Total Molybdenum (Mo)	2024/09/12	108	80 - 120	108	80 - 120	<0.00020	mg/L	19	20
B512587	Total Nickel (Ni)	2024/09/12	98	80 - 120	109	80 - 120	<0.00050	mg/L	4.9	20
B512587	Total Selenium (Se)	2024/09/12	100	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B512587	Total Silver (Ag)	2024/09/12	100	80 - 120	106	80 - 120	<0.00010	mg/L	NC	20
B512587	Total Thallium (Tl)	2024/09/12	97	80 - 120	107	80 - 120	<0.00020	mg/L	NC	20
B512587	Total Tin (Sn)	2024/09/12	104	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20
B512587	Total Titanium (Ti)	2024/09/12	101	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20
B512587	Total Uranium (U)	2024/09/12	104	80 - 120	112	80 - 120	<0.00010	mg/L	3.8	20
B512587	Total Vanadium (V)	2024/09/12	102	80 - 120	110	80 - 120	<0.0010	mg/L	NC	20
B512587	Total Zinc (Zn)	2024/09/12	97	80 - 120	107	80 - 120	<0.0030	mg/L	NC	20
B512609	Total Barium (Ba)	2024/09/12	102	80 - 120	102	80 - 120	<0.010	mg/L	2.7	20
B512609	Total Boron (B)	2024/09/12	93	80 - 120	92	80 - 120	<0.020	mg/L	3.1	20
B512609	Total Calcium (Ca)	2024/09/12	NC	80 - 120	102	80 - 120	<0.30	mg/L	3.0	20
B512609	Total Iron (Fe)	2024/09/12	NC	80 - 120	112	80 - 120	<0.060	mg/L	0.32	20
B512609	Total Lithium (Li)	2024/09/12	102	80 - 120	101	80 - 120	<0.020	mg/L	1.9	20
B512609	Total Magnesium (Mg)	2024/09/12	NC	80 - 120	106	80 - 120	<0.20	mg/L	3.1	20
B512609	Total Manganese (Mn)	2024/09/12	111	80 - 120	108	80 - 120	<0.0040	mg/L	3.4	20
B512609	Total Phosphorus (P)	2024/09/12	106	80 - 120	105	80 - 120	<0.10	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B512609	Total Potassium (K)	2024/09/12	105	80 - 120	103	80 - 120	<0.30	mg/L	2.8	20
B512609	Total Silicon (Si)	2024/09/12	NC	80 - 120	103	80 - 120	<0.50	mg/L	2.8	20
B512609	Total Sodium (Na)	2024/09/12	102	80 - 120	102	80 - 120	<0.50	mg/L	2.9	20
B512609	Total Strontium (Sr)	2024/09/12	100	80 - 120	100	80 - 120	<0.020	mg/L	4.0	20
B512609	Total Sulphur (S)	2024/09/12	NC	80 - 120	101	80 - 120	<0.20	mg/L	2.9	20
B513844	Dissolved Lead (Pb)	2024/09/12	91	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B513844	Dissolved Molybdenum (Mo)	2024/09/12	96	80 - 120	104	80 - 120	<0.00020	mg/L		

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

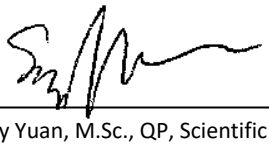
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics



Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

WINNIPEG ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 3	C#734342-01-01
Page 2 of 3	-02-01
Page 3 of 3	-03-01
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	

RECEIPT OBSERVATIONS:

	YES	NO				
CUSTODY SEAL			COOLER ID	1		
PRESENT			TEMP	1.7 (1)	1.3 (2)	2.3 (3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID	2		
PRESENT			TEMP	0.8 (1)	4.9 (2)	2.6 (3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID	3		
PRESENT			TEMP	1.9 (1)	1.8 (2)	-0.3 (3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID	4		
PRESENT			TEMP	2.4 (1)	2.8 (2)	1.4 (3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID	5		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID	6		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID	7		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID	8		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID	9		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL			COOLER ID	10		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

BUREAU VERITAS JOB#

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
BH	Brooklyn Hiebert	2024/09/05	1130

BUREAU VERITAS

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 2	734630-01-01
Page 2 of 2	734630-02-01
Page 1 of 3	734342-01-01
Page 2 of 3	734342-02-01
Page 3 of 3	734342-03-01
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS:

BV JOB#:

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓					
INTACT	✓		TEMP	3.1 (1)	6.2 (2)	3.6 (3)
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓					
INTACT	✓		TEMP	5.0 (1)	-2.5 (2)	2.5 (3)
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓					
INTACT	✓		TEMP	1.4 (1)	2.2 (2)	2.7 (3)
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓					
INTACT	✓		TEMP	3.3 (1)	4.3 (2)	5.3 (3)
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT	✓					
INTACT	✓		TEMP	4.5 (1)	4.9 (2)	3.8 (3)
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT						
INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
JZ	Jeff Lomon	2024/09/06	0900

C469709
2024/09/05 11:30

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins, Rachel Dyck	P.O. #			734342
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name			
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE	C#734342-01-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By	BRP / JWR		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times.

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10ºC) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		SC-1	24/09/04	12:35	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
2		SB-1		11:20				X	X	X	X	X	X	X	X	X	X		
3		SB-2		11:15				X	X	X	X	X	X	X	X	X	X		
4		CB-1		11:25				X	X	X	X	X	X	X	X	X	X		
5		CB-2		11:30				X	X	X	X	X	X	X	X	X	X		
6		EB-1		11:35				X	X	X	X	X	X	X	X	X	X		
7		EB-2		11:40				X	X	X	X	X	X	X	X	X	X		
8		NB-1		11:50				X	X	X	X	X	X	X	X	X	X		
9		NB-2		11:45				X	X	X	X	X	X	X	X	X	X		
10		CLD		~~11:55~~				X	X	X	X	X	X	X	X	X	X		

MCAL-2024-09-374

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (ºC) on Receipt	Custody Seal Intact on Cooler?
Bailey Bazuk BB	24/09/05	11:30	BH Brooklyn Hiebert	24/09/05	1130			ACTR	Yes / No
			Jeff Lemon	24/09/06	0900				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

MCAL · SCCACTR
CM-Y CS-Y

Bureau Veritas Canada (2019) Inc.

C469709
2024/09/05 11:30

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins, Rachel Dyck	P.O. #			734342
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name			
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE	C#734342-02-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By	BRP / JWR		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times.

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-3 SFC	24/09/04	10:30	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
2		CL-3 BTM		10:30				X	X	X	X	X	X	X	X	X	X		
3		CL-7 SFC		10:35				X	X	X	X	X	X	X	X	X	X		
4		CL-7 BTM		10:35				X	X	X	X	X	X	X	X	X	X		
5		CL-8 SFC		10:25				X	X	X	X	X	X	X	X	X	X		
6		CL-8 BTM		10:25				X	X	X	X	X	X	X	X	X	X		
7		CL-2 SFC		10:45				X	X	X	X	X	X	X	X	X	X		
8		CL-2 BTM		10:45				X	X	X	X	X	X	X	X	X	X		
9		CL-4 SFC		10:15				X	X	X	X	X	X	X	X	X	X		
10		CL-4 BTM		10:15				X	X	X	X	X	X	X	X	X	X		

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Bailey Pazuk	24/09/05	11:30	Brooklyn Hiebert	24/09/05	1130			ACTR	Yes / No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

MCAL - SEE ACTR
CS-Y CM-Y

Bureau Veritas Canada (2019) Inc.

C469709
2024/09/05 11:30

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins, Rachel Dyck	P.O. #			734342
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name			
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE	C#734342-03-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By	BBP / JWR		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times.

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10ºC) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-5 SFC	24/09/04	10:10	SW	N	N	X	X	X	X	X	X	X	X	X	X	5	
2		CL-5 BTM		10:10				X	X	X	X	X	X	X	X	X	X		
3		CL-6 SFC		10:00				X	X	X	X	X	X	X	X	X	X		
4		CL-6 BTM		10:00				X	X	X	X	X	X	X	X	X	X		
5		SW-125		AM				X	X	X	X	X	X	X	X	X	X		
6		SW-126		PM				X	X	X	X	X	X	X	X	X	X		
7		SW-127		AM				X	X	X	X	X	X	X	X	X	X		
8		Trip Blank		—				X	X	X	X	X	X	X	X	X	X		
9																			
10																			

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (ºC) on Receipt	Custody Seal Intact on Cooler?
Bailey Paquin	24/09/05	11:30	Brooklyn Hiebert	24/09/05	1130		☐	ACTR	☐ Yes ☐ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

MCAL - See ACTR

White: Bureau Veritas Yellow: Client

CS-Y CM-Y

Bureau Veritas Canada (2019) Inc.

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 735701-01-01, 735701-02-01, 735701-03-01

Report Date: 2024/09/26
Report #: R3562474
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C474261
Received: 2024/09/18, 11:30

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	3	N/A	2024/09/20	AB SOP-00005	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	15	N/A	2024/09/21	AB SOP-00005	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	10	N/A	2024/09/22	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	28	N/A	2024/09/21		Auto Calc
Cadmium - low level CCME (Total) (1)	28	N/A	2024/09/25		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	10	N/A	2024/09/20	AB SOP-00020	SM24-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry (1)	18	N/A	2024/09/21	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	28	N/A	2024/09/22	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	9	N/A	2024/09/22		Auto Calc
Hardness (1)	7	N/A	2024/09/23		Auto Calc
Hardness (1)	1	N/A	2024/09/24		Auto Calc
Hardness (1)	11	N/A	2024/09/25		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	15	N/A	2024/09/24	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	3	N/A	2024/09/25	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	10	N/A	2024/09/26	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	7	N/A	2024/09/20	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 4)	9	N/A	2024/09/21	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 4)	5	N/A	2024/09/24	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 4)	7	N/A	2024/09/25	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	15	2024/09/24	2024/09/24	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	2	2024/09/24	2024/09/25	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	11	2024/09/25	2024/09/25	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	28	N/A	2024/09/20	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	14	2024/09/24	2024/09/24	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	3	2024/09/24	2024/09/25	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 735701-01-01, 735701-02-01, 735701-03-01

Report Date: 2024/09/26
Report #: R3562474
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C474261
Received: 2024/09/18, 11:30

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by ICPMS - Total (1)	11	2024/09/25	2024/09/25	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	3	N/A	2024/09/20	AB SOP-00005	SM 24 4500-H+B m
pH @25°C (1, 6)	15	N/A	2024/09/21	AB SOP-00005	SM 24 4500-H+B m
pH @25°C (1, 6)	10	N/A	2024/09/22	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	28	N/A	2024/09/23	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	1	2024/09/20	2024/09/20	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	12	2024/09/22	2024/09/22	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	15	2024/09/23	2024/09/23	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	27	N/A	2024/09/19	CAL SOP-00081	SM 24 2130 B m
Turbidity (1)	1	N/A	2024/09/20	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM - SHERRIDON MINE SITE

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Your C.O.C. #: 735701-01-01, 735701-02-01, 735701-03-01

Report Date: 2024/09/26
Report #: R3562474
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C474261

Received: 2024/09/18, 11:30

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8

(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).

(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.

(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.

(7) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV471		CVV472		CVV473		
Sampling Date		2024/09/17 10:30		2024/09/17 09:30		2024/09/17 09:25		
COC Number		735701-01-01		735701-01-01		735701-01-01		
	UNITS	SC-1	QC Batch	SB-1	QC Batch	SB-2	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.29	B528061	0.18	B528061	0.21	0.020	B528061
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.018	B530741	0.017	B530037	0.018	0.0030	B530741
Dissolved Antimony (Sb)	mg/L	<0.00060	B530741	<0.00060	B530037	<0.00060	0.00060	B530741
Dissolved Arsenic (As)	mg/L	0.00055	B530741	0.00030	B530037	0.00029	0.00020	B530741
Dissolved Barium (Ba)	mg/L	<0.010	B532683	0.010	B531441	0.010	0.010	B533579
Dissolved Beryllium (Be)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	0.0010	B530741
Dissolved Boron (B)	mg/L	<0.020	B532683	<0.020	B531441	<0.020	0.020	B533579
Dissolved Calcium (Ca)	mg/L	9.4	B532683	27	B531441	29	0.30	B533579
Dissolved Chromium (Cr)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	0.0010	B530741
Dissolved Cobalt (Co)	mg/L	<0.00030	B530741	<0.00030	B530037	<0.00030	0.00030	B530741
Dissolved Copper (Cu)	mg/L	0.0090	B530741	0.0089	B530037	0.0096	0.0010	B530741
Dissolved Iron (Fe)	mg/L	0.21	B532683	3.8	B531441	4.1	0.060	B533579
Dissolved Lead (Pb)	mg/L	<0.00020	B530741	<0.00020	B530037	<0.00020	0.00020	B530741
Dissolved Lithium (Li)	mg/L	<0.020	B532683	0.031	B531441	0.038	0.020	B533579
Dissolved Magnesium (Mg)	mg/L	2.9	B532683	5.1	B531441	5.7	0.20	B533579
Dissolved Manganese (Mn)	mg/L	0.012	B532683	0.0055	B531441	0.011	0.0040	B533579
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B530741	<0.00020	B530037	<0.00020	0.00020	B536757
Dissolved Nickel (Ni)	mg/L	0.00066	B530741	0.00074	B530037	0.0010	0.00050	B530741
Dissolved Phosphorus (P)	mg/L	<0.10	B532683	<0.10	B531441	<0.10	0.10	B533579
Dissolved Potassium (K)	mg/L	1.5	B532683	2.9	B531441	3.1	0.30	B533579
Dissolved Selenium (Se)	mg/L	<0.00020	B530741	<0.00020	B530037	<0.00020	0.00020	B530741
Dissolved Silicon (Si)	mg/L	1.0	B532683	0.67	B531441	0.74	0.50	B533579
Dissolved Silver (Ag)	mg/L	<0.00010	B530741	<0.00010	B530037	<0.00010	0.00010	B530741
Dissolved Sodium (Na)	mg/L	2.7	B532683	2.6	B531441	2.9	0.50	B533579
Dissolved Strontium (Sr)	mg/L	0.024	B532683	0.036	B531441	0.037	0.020	B533579
Dissolved Sulphur (S)	mg/L	2.2	B532683	24	B531441	26	0.20	B533579
Dissolved Thallium (Tl)	mg/L	<0.00020	B530741	<0.00020	B530037	<0.00020	0.00020	B530741
Dissolved Tin (Sn)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	0.0010	B530741
Dissolved Titanium (Ti)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	0.0010	B530741
Dissolved Uranium (U)	mg/L	<0.00010	B530741	<0.00010	B530037	<0.00010	0.00010	B530741
Dissolved Vanadium (V)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	0.0010	B530741
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV471		CVV472		CVV473		
Sampling Date		2024/09/17 10:30		2024/09/17 09:30		2024/09/17 09:25		
COC Number		735701-01-01		735701-01-01		735701-01-01		
	UNITS	**SC-1**	**QC Batch**	**SB-1**	**QC Batch**	**SB-2**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.16	B530741	0.050	B530037	0.066	0.0030	B530741
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV473			CVV474		CVV475		
Sampling Date		2024/09/17 09:25			2024/09/17 09:35		2024/09/17 09:38		
COC Number		735701-01-01			735701-01-01		735701-01-01		
	UNITS	SB-2 Lab-Dup	RDL	QC Batch	CB-1	QC Batch	CB-2	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L				0.21	B528061	0.19	0.020	B528061
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L				0.016	B530741	0.019	0.0030	B530037
Dissolved Antimony (Sb)	mg/L				<0.00060	B530741	<0.00060	0.00060	B530037
Dissolved Arsenic (As)	mg/L				0.00050	B530741	0.00033	0.00020	B530037
Dissolved Barium (Ba)	mg/L				<0.010	B532683	<0.010	0.010	B531441
Dissolved Beryllium (Be)	mg/L				<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Boron (B)	mg/L				<0.020	B532683	<0.020	0.020	B531441
Dissolved Calcium (Ca)	mg/L				27	B532683	29	0.30	B531441
Dissolved Chromium (Cr)	mg/L				<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Cobalt (Co)	mg/L				<0.00030	B530741	<0.00030	0.00030	B530037
Dissolved Copper (Cu)	mg/L				0.0095	B530741	0.0096	0.0010	B530037
Dissolved Iron (Fe)	mg/L				3.6	B532683	3.8	0.060	B531441
Dissolved Lead (Pb)	mg/L				<0.00020	B530741	<0.00020	0.00020	B530037
Dissolved Lithium (Li)	mg/L				<0.020	B532683	<0.020	0.020	B531441
Dissolved Magnesium (Mg)	mg/L				5.2	B532683	5.5	0.20	B531441
Dissolved Manganese (Mn)	mg/L				0.0050	B532683	0.0050	0.0040	B531441
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B536757	0.00022	B530741	<0.00020	0.00020	B530037
Dissolved Nickel (Ni)	mg/L				0.00079	B530741	0.0010	0.00050	B530037
Dissolved Phosphorus (P)	mg/L				<0.10	B532683	<0.10	0.10	B531441
Dissolved Potassium (K)	mg/L				2.8	B532683	3.0	0.30	B531441
Dissolved Selenium (Se)	mg/L				<0.00020	B530741	<0.00020	0.00020	B530037
Dissolved Silicon (Si)	mg/L				0.66	B532683	0.65	0.50	B531441
Dissolved Silver (Ag)	mg/L				<0.00010	B530741	<0.00010	0.00010	B530037
Dissolved Sodium (Na)	mg/L				2.6	B532683	2.7	0.50	B531441
Dissolved Strontium (Sr)	mg/L				0.037	B532683	0.037	0.020	B531441
Dissolved Sulphur (S)	mg/L				25	B532683	26	0.20	B531441
Dissolved Thallium (Tl)	mg/L				<0.00020	B530741	<0.00020	0.00020	B530037
Dissolved Tin (Sn)	mg/L				<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Titanium (Ti)	mg/L				<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Uranium (U)	mg/L				<0.00010	B530741	<0.00010	0.00010	B530037

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV473			CVV474		CVV475		
Sampling Date		2024/09/17 09:25			2024/09/17 09:35		2024/09/17 09:38		
COC Number		735701-01-01			735701-01-01		735701-01-01		
	UNITS	**SB-2 Lab-Dup**	**RDL**	**QC Batch**	**CB-1**	**QC Batch**	**CB-2**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L				<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Zinc (Zn)	mg/L				0.063	B530741	0.057	0.0030	B530037

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV476		CVV477		CVV478		
Sampling Date		2024/09/17 09:44		2024/09/17 09:47		2024/09/17 10:00		
COC Number		735701-01-01		735701-01-01		735701-01-01		
	UNITS	EB-1	QC Batch	EB-2	RDL	NB-1	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.27	B528061	0.29	0.020	0.20	0.020	B528061
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.018	B530741	0.022	0.0030	0.019	0.0030	B530037
Dissolved Antimony (Sb)	mg/L	<0.00060	B530741	<0.00060	0.00060	<0.00060	0.00060	B530037
Dissolved Arsenic (As)	mg/L	0.00027	B530741	0.00038	0.00020	0.00032	0.00020	B530037
Dissolved Barium (Ba)	mg/L	0.011	B531441	0.013	0.010	<0.050	0.050	B529927
Dissolved Beryllium (Be)	mg/L	<0.0010	B530741	<0.0010	0.0010	<0.0010	0.0010	B530037
Dissolved Boron (B)	mg/L	<0.020	B531441	<0.020	0.020	<0.10	0.10	B529927
Dissolved Calcium (Ca)	mg/L	34	B531441	41	0.30	34	1.5	B529927
Dissolved Chromium (Cr)	mg/L	<0.0010	B530741	<0.0010	0.0010	<0.0010	0.0010	B530037
Dissolved Cobalt (Co)	mg/L	<0.00030	B530741	<0.00030	0.00030	<0.00030	0.00030	B530037
Dissolved Copper (Cu)	mg/L	0.010	B530741	0.010	0.0010	0.0085	0.0010	B530037
Dissolved Iron (Fe)	mg/L	1.9	B531441	1.5	0.060	2.7	0.30	B529927
Dissolved Lead (Pb)	mg/L	<0.00020	B530741	<0.00020	0.00020	<0.00020	0.00020	B530037
Dissolved Lithium (Li)	mg/L	<0.020	B531441	<0.020	0.020	<0.10	0.10	B529927
Dissolved Magnesium (Mg)	mg/L	6.1	B531441	6.5	0.20	6.0	1.0	B529927
Dissolved Manganese (Mn)	mg/L	<0.0040	B531441	<0.0040	0.0040	<0.020	0.020	B529927
Dissolved Molybdenum (Mo)	mg/L	0.00025	B530741	0.00024	0.00020	0.00050	0.00020	B530037
Dissolved Nickel (Ni)	mg/L	0.00097	B530741	0.0010	0.00050	0.00068	0.00050	B530037
Dissolved Phosphorus (P)	mg/L	<0.10	B531441	<0.10	0.10	<0.50	0.50	B529927
Dissolved Potassium (K)	mg/L	3.3	B531441	3.7	0.30	2.9	1.5	B529927
Dissolved Selenium (Se)	mg/L	<0.00020	B530741	<0.00020	0.00020	<0.00020	0.00020	B530037
Dissolved Silicon (Si)	mg/L	<0.50	B531441	<0.50	0.50	<2.5	2.5	B529927
Dissolved Silver (Ag)	mg/L	<0.00010	B530741	<0.00010	0.00010	<0.00010	0.00010	B530037
Dissolved Sodium (Na)	mg/L	2.8	B531441	3.1	0.50	3.1	2.5	B529927
Dissolved Strontium (Sr)	mg/L	0.041	B531441	0.048	0.020	<0.10	0.10	B529927
Dissolved Sulphur (S)	mg/L	32	B531441	35	0.20	31	1.0	B529927
Dissolved Thallium (Tl)	mg/L	<0.00020	B530741	<0.00020	0.00020	<0.00020	0.00020	B530037
Dissolved Tin (Sn)	mg/L	<0.0010	B530741	<0.0010	0.0010	<0.0010	0.0010	B530037
Dissolved Titanium (Ti)	mg/L	<0.0010	B530741	<0.0010	0.0010	<0.0010	0.0010	B530037
Dissolved Uranium (U)	mg/L	<0.00010	B530741	<0.00010	0.00010	<0.00010	0.00010	B530037
Dissolved Vanadium (V)	mg/L	<0.0010	B530741	<0.0010	0.0010	<0.0010	0.0010	B530037
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV476		CVV477		CVV478		
Sampling Date		2024/09/17 09:44		2024/09/17 09:47		2024/09/17 10:00		
COC Number		735701-01-01		735701-01-01		735701-01-01		
	UNITS	**EB-1**	**QC Batch**	**EB-2**	**RDL**	**NB-1**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.082	B530741	0.081	0.0030	0.051	0.0030	B530037
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV479		CVV480			CVV480		
Sampling Date		2024/09/17 09:55		2024/09/17 10:08			2024/09/17 10:08		
COC Number		735701-01-01		735701-01-01			735701-01-01		
	UNITS	NB-2	QC Batch	CLD	RDL	QC Batch	CLD Lab-Dup	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.21	B528524	0.21	0.020	B528528			
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.023	B530037	0.023	0.0030	B530037	0.019	0.0030	B530037
Dissolved Antimony (Sb)	mg/L	<0.00060	B530037	<0.00060	0.00060	B530037	<0.00060	0.00060	B530037
Dissolved Arsenic (As)	mg/L	0.00039	B530037	0.00036	0.00020	B530037	0.00027	0.00020	B530037
Dissolved Barium (Ba)	mg/L	0.010	B529927	0.011	0.010	B532353	0.010	0.010	B532353
Dissolved Beryllium (Be)	mg/L	<0.0010	B530037	<0.0010	0.0010	B530037	<0.0010	0.0010	B530037
Dissolved Boron (B)	mg/L	<0.020	B529927	<0.020	0.020	B532353	<0.020	0.020	B532353
Dissolved Calcium (Ca)	mg/L	38	B529927	34	0.30	B532353	33	0.30	B532353
Dissolved Chromium (Cr)	mg/L	<0.0010	B530037	<0.0010	0.0010	B530037	<0.0010	0.0010	B530037
Dissolved Cobalt (Co)	mg/L	<0.00030	B530037	<0.00030	0.00030	B530037	<0.00030	0.00030	B530037
Dissolved Copper (Cu)	mg/L	0.0097	B530037	0.0086	0.0010	B530037	0.0084	0.0010	B530037
Dissolved Iron (Fe)	mg/L	2.7	B529927	3.1	0.060	B532353	3.3	0.060	B532353
Dissolved Lead (Pb)	mg/L	<0.00020	B530037	<0.00020	0.00020	B530037	<0.00020	0.00020	B530037
Dissolved Lithium (Li)	mg/L	<0.020	B529927	<0.020	0.020	B532353	<0.020	0.020	B532353
Dissolved Magnesium (Mg)	mg/L	6.0	B529927	5.9	0.20	B532353	6.2	0.20	B532353
Dissolved Manganese (Mn)	mg/L	<0.0040	B529927	<0.0040	0.0040	B532353	<0.0040	0.0040	B532353
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B530037	<0.00020	0.00020	B530037	<0.00020	0.00020	B530037
Dissolved Nickel (Ni)	mg/L	0.00070	B530037	0.00068	0.00050	B530037	0.00080	0.00050	B530037
Dissolved Phosphorus (P)	mg/L	<0.10	B529927	<0.10	0.10	B532353	<0.10	0.10	B532353
Dissolved Potassium (K)	mg/L	3.5	B529927	3.0	0.30	B532353	2.9	0.30	B532353
Dissolved Selenium (Se)	mg/L	<0.00020	B530037	0.00027	0.00020	B530037	0.00021	0.00020	B530037
Dissolved Silicon (Si)	mg/L	0.57	B529927	0.65	0.50	B532353	0.58	0.50	B532353
Dissolved Silver (Ag)	mg/L	<0.00010	B530037	<0.00010	0.00010	B530037	<0.00010	0.00010	B530037
Dissolved Sodium (Na)	mg/L	3.1	B529927	2.6	0.50	B532353	2.5	0.50	B532353
Dissolved Strontium (Sr)	mg/L	0.043	B529927	0.039	0.020	B532353	0.040	0.020	B532353
Dissolved Sulphur (S)	mg/L	30	B529927	33	0.20	B532353	32	0.20	B532353
Dissolved Thallium (Tl)	mg/L	<0.00020	B530037	<0.00020	0.00020	B530037	<0.00020	0.00020	B530037
Dissolved Tin (Sn)	mg/L	<0.0010	B530037	<0.0010	0.0010	B530037	<0.0010	0.0010	B530037
Dissolved Titanium (Ti)	mg/L	<0.0010	B530037	<0.0010	0.0010	B530037	<0.0010	0.0010	B530037
Dissolved Uranium (U)	mg/L	<0.00010	B530037	<0.00010	0.00010	B530037	<0.00010	0.00010	B530037

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV479		CVV480			CVV480		
Sampling Date		2024/09/17 09:55		2024/09/17 10:08			2024/09/17 10:08		
COC Number		735701-01-01		735701-01-01			735701-01-01		
	UNITS	**NB-2**	**QC Batch**	**CLD**	**RDL**	**QC Batch**	**CLD Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B530037	<0.0010	0.0010	B530037	<0.0010	0.0010	B530037
Dissolved Zinc (Zn)	mg/L	0.057	B530037	0.051	0.0030	B530037	0.051	0.0030	B530037

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV481		CVV482		CVV483	CVV484		
Sampling Date		2024/09/17 08:38		2024/09/17 08:40		2024/09/17 08:47	2024/09/17 08:50		
COC Number		735701-02-01		735701-02-01		735701-02-01	735701-02-01		
	UNITS	CL-3 SFC	QC Batch	CL-3 BTM	QC Batch	CL-7 SFC	CL-7 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.034	B528528	0.027	B528528	0.022	0.032	0.020	B528528
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.012	B530037	0.011	B530741	0.010	0.014	0.0030	B530037
Dissolved Antimony (Sb)	mg/L	<0.00060	B530037	<0.00060	B530741	<0.00060	<0.00060	0.00060	B530037
Dissolved Arsenic (As)	mg/L	0.00038	B530037	0.00037	B530741	0.00041	0.00038	0.00020	B530037
Dissolved Barium (Ba)	mg/L	0.010	B529927	<0.010	B533579	<0.010	0.010	0.010	B529927
Dissolved Beryllium (Be)	mg/L	<0.0010	B530037	<0.0010	B530741	<0.0010	<0.0010	0.0010	B530037
Dissolved Boron (B)	mg/L	<0.020	B529927	<0.020	B533579	<0.020	<0.020	0.020	B529927
Dissolved Calcium (Ca)	mg/L	15	B529927	15	B533579	15	15	0.30	B529927
Dissolved Chromium (Cr)	mg/L	<0.0010	B530037	<0.0010	B530741	<0.0010	<0.0010	0.0010	B530037
Dissolved Cobalt (Co)	mg/L	<0.00030	B530037	<0.00030	B530741	<0.00030	<0.00030	0.00030	B530037
Dissolved Copper (Cu)	mg/L	0.0054	B530037	0.0051	B530741	0.0045	0.0058	0.0010	B530037
Dissolved Iron (Fe)	mg/L	0.25	B529927	0.21	B533579	0.19	0.19	0.060	B529927
Dissolved Lead (Pb)	mg/L	<0.00020	B530037	<0.00020	B530741	<0.00020	0.00038	0.00020	B530037
Dissolved Lithium (Li)	mg/L	<0.020	B529927	0.038	B533579	<0.020	<0.020	0.020	B529927
Dissolved Magnesium (Mg)	mg/L	3.6	B529927	3.9	B533579	3.6	3.6	0.20	B529927
Dissolved Manganese (Mn)	mg/L	<0.0040	B529927	<0.0040	B533579	<0.0040	<0.0040	0.0040	B529927
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B530037	<0.00020	B536757	<0.00020	<0.00020	0.00020	B530037
Dissolved Nickel (Ni)	mg/L	<0.00050	B530037	0.00065	B530741	<0.00050	0.00052	0.00050	B530037
Dissolved Phosphorus (P)	mg/L	<0.10	B529927	<0.10	B533579	<0.10	<0.10	0.10	B529927
Dissolved Potassium (K)	mg/L	1.8	B529927	1.8	B533579	1.9	1.8	0.30	B529927
Dissolved Selenium (Se)	mg/L	<0.00020	B530037	<0.00020	B530741	<0.00020	<0.00020	0.00020	B530037
Dissolved Silicon (Si)	mg/L	0.64	B529927	0.64	B533579	0.62	0.63	0.50	B529927
Dissolved Silver (Ag)	mg/L	<0.00010	B530037	<0.00010	B530741	<0.00010	<0.00010	0.00010	B530037
Dissolved Sodium (Na)	mg/L	2.2	B529927	2.3	B533579	2.3	2.3	0.50	B529927
Dissolved Strontium (Sr)	mg/L	0.030	B529927	0.029	B533579	0.031	0.031	0.020	B529927
Dissolved Sulphur (S)	mg/L	8.6	B529927	8.8	B533579	7.9	7.9	0.20	B529927
Dissolved Thallium (Tl)	mg/L	<0.00020	B530037	<0.00020	B530741	<0.00020	<0.00020	0.00020	B530037
Dissolved Tin (Sn)	mg/L	<0.0010	B530037	<0.0010	B530741	<0.0010	<0.0010	0.0010	B530037
Dissolved Titanium (Ti)	mg/L	<0.0010	B530037	<0.0010	B530741	<0.0010	<0.0010	0.0010	B530037
Dissolved Uranium (U)	mg/L	<0.00010	B530037	<0.00010	B530741	<0.00010	<0.00010	0.00010	B530037
Dissolved Vanadium (V)	mg/L	<0.0010	B530037	<0.0010	B530741	<0.0010	<0.0010	0.0010	B530037

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV481		CVV482		CVV483	CVV484		
Sampling Date		2024/09/17 08:38		2024/09/17 08:40		2024/09/17 08:47	2024/09/17 08:50		
COC Number		735701-02-01		735701-02-01		735701-02-01	735701-02-01		
	UNITS	**CL-3 SFC**	**QC Batch**	**CL-3 BTM**	**QC Batch**	**CL-7 SFC**	**CL-7 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.012	B530037	0.014	B530741	0.0091	0.012	0.0030	B530037
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV485		CVV486		CVV487	CVV488		
Sampling Date		2024/09/17 08:34		2024/09/17 08:37		2024/09/17 08:56	2024/09/17 09:00		
COC Number		735701-02-01		735701-02-01		735701-02-01	735701-02-01		
	UNITS	CL-8 SFC	QC Batch	CL-8 BTM	QC Batch	CL-2 SFC	CL-2 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.033	B528528	0.029	B528528	0.024	0.025	0.020	B528528
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.011	B530741	0.019	B530037	0.012	0.013	0.0030	B530037
Dissolved Antimony (Sb)	mg/L	<0.00060	B530741	<0.00060	B530037	<0.00060	<0.00060	0.00060	B530037
Dissolved Arsenic (As)	mg/L	0.00048	B530741	0.00044	B530037	0.00049	0.00039	0.00020	B530037
Dissolved Barium (Ba)	mg/L	<0.010	B533579	0.010	B529927	<0.010	<0.010	0.010	B531441
Dissolved Beryllium (Be)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	<0.0010	0.0010	B530037
Dissolved Boron (B)	mg/L	<0.020	B533579	<0.020	B529927	<0.020	<0.020	0.020	B531441
Dissolved Calcium (Ca)	mg/L	15	B533579	15	B529927	14	14	0.30	B531441
Dissolved Chromium (Cr)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	<0.0010	0.0010	B530037
Dissolved Cobalt (Co)	mg/L	<0.00030	B530741	<0.00030	B530037	<0.00030	<0.00030	0.00030	B530037
Dissolved Copper (Cu)	mg/L	0.0054	B530741	0.0054	B530037	0.0055	0.0056	0.0010	B530037
Dissolved Iron (Fe)	mg/L	0.22	B533579	0.20	B529927	0.17	0.19	0.060	B531441
Dissolved Lead (Pb)	mg/L	<0.00020	B530741	<0.00020	B530037	<0.00020	<0.00020	0.00020	B530037
Dissolved Lithium (Li)	mg/L	0.039	B533579	<0.020	B529927	<0.020	<0.020	0.020	B531441
Dissolved Magnesium (Mg)	mg/L	3.8	B533579	3.6	B529927	3.5	3.6	0.20	B531441
Dissolved Manganese (Mn)	mg/L	<0.0040	B533579	<0.0040	B529927	<0.0040	<0.0040	0.0040	B531441
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B536757	<0.00020	B530037	<0.00020	<0.00020	0.00020	B530037
Dissolved Nickel (Ni)	mg/L	0.00067	B530741	0.00050	B530037	<0.00050	<0.00050	0.00050	B530037
Dissolved Phosphorus (P)	mg/L	<0.10	B533579	<0.10	B529927	<0.10	<0.10	0.10	B531441
Dissolved Potassium (K)	mg/L	1.8	B533579	1.8	B529927	1.8	1.7	0.30	B531441
Dissolved Selenium (Se)	mg/L	<0.00020	B530741	<0.00020	B530037	<0.00020	<0.00020	0.00020	B530037
Dissolved Silicon (Si)	mg/L	0.66	B533579	0.64	B529927	0.60	0.61	0.50	B531441
Dissolved Silver (Ag)	mg/L	<0.00010	B530741	<0.00010	B530037	<0.00010	<0.00010	0.00010	B530037
Dissolved Sodium (Na)	mg/L	2.2	B533579	2.3	B529927	2.2	2.2	0.50	B531441
Dissolved Strontium (Sr)	mg/L	0.028	B533579	0.031	B529927	0.028	0.028	0.020	B531441
Dissolved Sulphur (S)	mg/L	8.7	B533579	8.1	B529927	7.3	7.4	0.20	B531441
Dissolved Thallium (Tl)	mg/L	<0.00020	B530741	<0.00020	B530037	<0.00020	<0.00020	0.00020	B530037
Dissolved Tin (Sn)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	<0.0010	0.0010	B530037
Dissolved Titanium (Ti)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	<0.0010	0.0010	B530037
Dissolved Uranium (U)	mg/L	<0.00010	B530741	<0.00010	B530037	<0.00010	<0.00010	0.00010	B530037
Dissolved Vanadium (V)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	<0.0010	0.0010	B530037

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV485		CVV486		CVV487	CVV488		
Sampling Date		2024/09/17 08:34		2024/09/17 08:37		2024/09/17 08:56	2024/09/17 09:00		
COC Number		735701-02-01		735701-02-01		735701-02-01	735701-02-01		
	UNITS	**CL-8 SFC**	**QC Batch**	**CL-8 BTM**	**QC Batch**	**CL-2 SFC**	**CL-2 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.014	B530741	0.012	B530037	0.012	0.012	0.0030	B530037
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV489		CVV490		CVV491		CVV492		
Sampling Date		2024/09/17 08:27		2024/09/17 08:30		2024/09/17 08:15		2024/09/17 08:20		
COC Number		735701-02-01		735701-02-01		735701-03-01		735701-03-01		
	UNITS	CL-4 SFC	QC Batch	CL-4 BTM	QC Batch	CL-5 SFC	QC Batch	CL-5 BTM	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.027	B528528	0.022	B528528	<0.020	B528528	0.022	0.020	B528528
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.011	B530741	0.011	B530037	0.011	B530741	0.011	0.0030	B530037
Dissolved Antimony (Sb)	mg/L	<0.00060	B530741	<0.00060	B530037	<0.00060	B530741	<0.00060	0.00060	B530037
Dissolved Arsenic (As)	mg/L	0.00052	B530741	0.00050	B530037	0.00040	B530741	0.00038	0.00020	B530037
Dissolved Barium (Ba)	mg/L	<0.010	B532683	<0.010	B531441	<0.010	B532683	<0.010	0.010	B531441
Dissolved Beryllium (Be)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Boron (B)	mg/L	<0.020	B532683	<0.020	B531441	<0.020	B532683	<0.020	0.020	B531441
Dissolved Calcium (Ca)	mg/L	14	B532683	13	B531441	13	B532683	13	0.30	B531441
Dissolved Chromium (Cr)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Cobalt (Co)	mg/L	<0.00030	B530741	<0.00030	B530037	<0.00030	B530741	<0.00030	0.00030	B530037
Dissolved Copper (Cu)	mg/L	0.0052	B530741	0.0052	B530037	0.0048	B530741	0.0054	0.0010	B530037
Dissolved Iron (Fe)	mg/L	0.13	B532683	0.15	B531441	0.10	B532683	0.12	0.060	B531441
Dissolved Lead (Pb)	mg/L	<0.00020	B530741	<0.00020	B530037	<0.00020	B530741	<0.00020	0.00020	B530037
Dissolved Lithium (Li)	mg/L	<0.020	B532683	<0.020	B531441	<0.020	B532683	<0.020	0.020	B531441
Dissolved Magnesium (Mg)	mg/L	3.4	B532683	3.5	B531441	3.6	B532683	3.5	0.20	B531441
Dissolved Manganese (Mn)	mg/L	<0.0040	B532683	<0.0040	B531441	<0.0040	B532683	<0.0040	0.0040	B531441
Dissolved Molybdenum (Mo)	mg/L	0.00039	B530741	<0.00020	B530037	<0.00020	B530741	<0.00020	0.00020	B530037
Dissolved Nickel (Ni)	mg/L	0.00062	B530741	0.00053	B530037	<0.00050	B530741	<0.00050	0.00050	B530037
Dissolved Phosphorus (P)	mg/L	<0.10	B532683	<0.10	B531441	<0.10	B532683	<0.10	0.10	B531441
Dissolved Potassium (K)	mg/L	1.9	B532683	1.8	B531441	1.7	B532683	1.7	0.30	B531441
Dissolved Selenium (Se)	mg/L	<0.00020	B530741	<0.00020	B530037	<0.00020	B530741	<0.00020	0.00020	B530037
Dissolved Silicon (Si)	mg/L	0.58	B532683	0.57	B531441	0.54	B532683	0.55	0.50	B531441
Dissolved Silver (Ag)	mg/L	<0.00010	B530741	<0.00010	B530037	<0.00010	B530741	<0.00010	0.00010	B530037
Dissolved Sodium (Na)	mg/L	2.2	B532683	2.1	B531441	2.1	B532683	2.1	0.50	B531441
Dissolved Strontium (Sr)	mg/L	0.028	B532683	0.028	B531441	0.029	B532683	0.027	0.020	B531441
Dissolved Sulphur (S)	mg/L	7.7	B532683	6.7	B531441	7.1	B532683	6.7	0.20	B531441
Dissolved Thallium (Tl)	mg/L	<0.00020	B530741	<0.00020	B530037	<0.00020	B530741	<0.00020	0.00020	B530037
Dissolved Tin (Sn)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Titanium (Ti)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Uranium (U)	mg/L	<0.00010	B530741	<0.00010	B530037	<0.00010	B530741	<0.00010	0.00010	B530037
Dissolved Vanadium (V)	mg/L	<0.0010	B530741	<0.0010	B530037	<0.0010	B530741	<0.0010	0.0010	B530037

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV489		CVV490		CVV491		CVV492		
Sampling Date		2024/09/17 08:27		2024/09/17 08:30		2024/09/17 08:15		2024/09/17 08:20		
COC Number		735701-02-01		735701-02-01		735701-03-01		735701-03-01		
	UNITS	**CL-4 SFC**	**QC Batch**	**CL-4 BTM**	**QC Batch**	**CL-5 SFC**	**QC Batch**	**CL-5 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.013	B530741	0.010	B530037	0.011	B530741	0.010	0.0030	B530037
RDL = Reportable Detection Limit										

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV493		CVV494		CVV495	CVV496		
Sampling Date		2024/09/17 08:10		2024/09/17 08:05		2024/09/17	2024/09/17		
COC Number		735701-03-01		735701-03-01		735701-03-01	735701-03-01		
	UNITS	CL-6 SFC	QC Batch	CL-6 BTM	QC Batch	CSW-128	CSW-129	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	<0.020	B528528	<0.020	B528528	0.20	0.23	0.020	B528528
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.0096	B530037	0.014	B530037	0.020	0.018	0.0030	B530741
Dissolved Antimony (Sb)	mg/L	<0.00060	B530037	<0.00060	B530037	<0.00060	<0.00060	0.00060	B530741
Dissolved Arsenic (As)	mg/L	0.00047	B530037	0.00038	B530037	0.00034	0.00050	0.00020	B530741
Dissolved Barium (Ba)	mg/L	<0.010	B532349	<0.010	B531441	<0.010	<0.010	0.010	B532683
Dissolved Beryllium (Be)	mg/L	<0.0010	B530037	<0.0010	B530037	<0.0010	<0.0010	0.0010	B530741
Dissolved Boron (B)	mg/L	<0.020	B532349	<0.020	B531441	<0.020	<0.020	0.020	B532683
Dissolved Calcium (Ca)	mg/L	12	B532349	12	B531441	34	31	0.30	B532683
Dissolved Chromium (Cr)	mg/L	<0.0010	B530037	<0.0010	B530037	<0.0010	<0.0010	0.0010	B530741
Dissolved Cobalt (Co)	mg/L	<0.00030	B530037	<0.00030	B530037	<0.00030	<0.00030	0.00030	B530741
Dissolved Copper (Cu)	mg/L	0.0040	B530037	0.0040	B530037	0.0096	0.0090	0.0010	B530741
Dissolved Iron (Fe)	mg/L	<0.060	B532349	<0.060	B531441	2.9	2.9	0.060	B532683
Dissolved Lead (Pb)	mg/L	<0.00020	B530037	<0.00020	B530037	<0.00020	<0.00020	0.00020	B530741
Dissolved Lithium (Li)	mg/L	0.038	B532349	<0.020	B531441	<0.020	<0.020	0.020	B532683
Dissolved Magnesium (Mg)	mg/L	3.4	B532349	3.3	B531441	5.9	5.9	0.20	B532683
Dissolved Manganese (Mn)	mg/L	<0.0040	B532349	<0.0040	B531441	<0.0040	<0.0040	0.0040	B532683
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B530037	<0.00020	B530037	<0.00020	0.00048	0.00020	B530741
Dissolved Nickel (Ni)	mg/L	<0.00050	B530037	<0.00050	B530037	0.00086	0.0010	0.00050	B530741
Dissolved Phosphorus (P)	mg/L	<0.10	B532349	<0.10	B531441	<0.10	<0.10	0.10	B532683
Dissolved Potassium (K)	mg/L	1.6	B532349	1.7	B531441	3.2	2.9	0.30	B532683
Dissolved Selenium (Se)	mg/L	<0.00020	B530037	<0.00020	B530037	<0.00020	<0.00020	0.00020	B530741
Dissolved Silicon (Si)	mg/L	<0.50	B532349	<0.50	B531441	0.54	0.56	0.50	B532683
Dissolved Silver (Ag)	mg/L	<0.00010	B530037	<0.00010	B530037	<0.00010	<0.00010	0.00010	B530741
Dissolved Sodium (Na)	mg/L	2.2	B532349	2.1	B531441	2.8	2.5	0.50	B532683
Dissolved Strontium (Sr)	mg/L	0.027	B532349	0.028	B531441	0.040	0.039	0.020	B532683
Dissolved Sulphur (S)	mg/L	6.3	B532349	5.2	B531441	31	31	0.20	B532683
Dissolved Thallium (Tl)	mg/L	<0.00020	B530037	<0.00020	B530037	<0.00020	<0.00020	0.00020	B530741
Dissolved Tin (Sn)	mg/L	<0.0010	B530037	<0.0010	B530037	<0.0010	<0.0010	0.0010	B530741
Dissolved Titanium (Ti)	mg/L	<0.0010	B530037	<0.0010	B530037	<0.0010	<0.0010	0.0010	B530741
Dissolved Uranium (U)	mg/L	<0.00010	B530037	<0.00010	B530037	<0.00010	<0.00010	0.00010	B530741
Dissolved Vanadium (V)	mg/L	<0.0010	B530037	<0.0010	B530037	<0.0010	<0.0010	0.0010	B530741

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV493		CVV494		CVV495	CVV496		
Sampling Date		2024/09/17 08:10		2024/09/17 08:05		2024/09/17	2024/09/17		
COC Number		735701-03-01		735701-03-01		735701-03-01	735701-03-01		
	UNITS	**CL-6 SFC**	**QC Batch**	**CL-6 BTM**	**QC Batch**	**CSW-128**	**CSW-129**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.0085	B530037	0.0074	B530037	0.063	0.063	0.0030	B530741
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV497		CVV498		
Sampling Date		2024/09/17				
COC Number		735701-03-01		735701-03-01		
	UNITS	CSW-130	QC Batch	TRIP BLANK	RDL	QC Batch
Elements						
Dissolved Cadmium (Cd)	ug/L	0.035	B528528	<0.020	0.020	B528528
Lab Filtered Elements						
Dissolved Aluminum (Al)	mg/L	0.014	B530741	<0.0030	0.0030	B530037
Dissolved Antimony (Sb)	mg/L	<0.00060	B530741	<0.00060	0.00060	B530037
Dissolved Arsenic (As)	mg/L	0.00045	B530741	<0.00020	0.00020	B530037
Dissolved Barium (Ba)	mg/L	<0.010	B532683	<0.010	0.010	B531441
Dissolved Beryllium (Be)	mg/L	<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Boron (B)	mg/L	<0.020	B532683	<0.020	0.020	B531441
Dissolved Calcium (Ca)	mg/L	16	B532683	<0.30	0.30	B531441
Dissolved Chromium (Cr)	mg/L	<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Cobalt (Co)	mg/L	<0.00030	B530741	<0.00030	0.00030	B530037
Dissolved Copper (Cu)	mg/L	0.0056	B530741	<0.0010	0.0010	B530037
Dissolved Iron (Fe)	mg/L	0.23	B532683	<0.060	0.060	B531441
Dissolved Lead (Pb)	mg/L	<0.00020	B530741	<0.00020	0.00020	B530037
Dissolved Lithium (Li)	mg/L	<0.020	B532683	<0.020	0.020	B531441
Dissolved Magnesium (Mg)	mg/L	3.6	B532683	<0.20	0.20	B531441
Dissolved Manganese (Mn)	mg/L	<0.0040	B532683	<0.0040	0.0040	B531441
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B536757	<0.00020	0.00020	B530037
Dissolved Nickel (Ni)	mg/L	0.00066	B530741	<0.00050	0.00050	B530037
Dissolved Phosphorus (P)	mg/L	<0.10	B532683	<0.10	0.10	B531441
Dissolved Potassium (K)	mg/L	2.0	B532683	<0.30	0.30	B531441
Dissolved Selenium (Se)	mg/L	<0.00020	B530741	<0.00020	0.00020	B530037
Dissolved Silicon (Si)	mg/L	0.59	B532683	<0.50	0.50	B531441
Dissolved Silver (Ag)	mg/L	<0.00010	B530741	<0.00010	0.00010	B530037
Dissolved Sodium (Na)	mg/L	2.3	B532683	<0.50	0.50	B531441
Dissolved Strontium (Sr)	mg/L	0.029	B532683	<0.020	0.020	B531441
Dissolved Sulphur (S)	mg/L	8.5	B532683	<0.20	0.20	B531441
Dissolved Thallium (Tl)	mg/L	<0.00020	B530741	<0.00020	0.00020	B530037
Dissolved Tin (Sn)	mg/L	<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Titanium (Ti)	mg/L	<0.0010	B530741	<0.0010	0.0010	B530037
Dissolved Uranium (U)	mg/L	<0.00010	B530741	<0.00010	0.00010	B530037
Dissolved Vanadium (V)	mg/L	<0.0010	B530741	<0.0010	0.0010	B530037
RDL = Reportable Detection Limit						

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CVV497		CVV498		
Sampling Date		2024/09/17				
COC Number		735701-03-01		735701-03-01		
	UNITS	**CSW-130**	**QC Batch**	**TRIP BLANK**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.015	B530741	<0.0030	0.0030	B530037
RDL = Reportable Detection Limit						

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV471	CVV472		CVV473		CVV474		
Sampling Date		2024/09/17 10:30	2024/09/17 09:30		2024/09/17 09:25		2024/09/17 09:35		
COC Number		735701-01-01	735701-01-01		735701-01-01		735701-01-01		
	UNITS	SC-1	SB-1	QC Batch	SB-2	QC Batch	CB-1	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.41	0.27	B527756	0.24	B527756	0.24	0.020	B527756
Total Aluminum (Al)	mg/L	0.040	0.040	B535762	0.041	B534690	0.036	0.0030	B535762
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B535762	<0.00060	B534690	<0.00060	0.00060	B535762
Total Arsenic (As)	mg/L	0.00058	0.00044	B535762	0.00042	B534690	0.00037	0.00020	B535762
Total Barium (Ba)	mg/L	<0.010	0.010	B535770	<0.010	B534736	0.011	0.010	B535770
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B535762	<0.0010	B534690	<0.0010	0.0010	B535762
Total Boron (B)	mg/L	<0.020	<0.020	B535770	<0.020	B534736	<0.020	0.020	B535770
Total Calcium (Ca)	mg/L	9.8	30	B535770	27	B534736	30	0.30	B535770
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B535762	<0.0010	B534690	<0.0010	0.0010	B535762
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B535762	<0.00030	B534690	<0.00030	0.00030	B535762
Total Copper (Cu)	mg/L	0.013	0.013	B535762	0.011	B534690	0.012	0.0010	B535762
Total Iron (Fe)	mg/L	0.37	4.7	B535770	4.5	B534736	4.7	0.060	B535770
Total Lead (Pb)	mg/L	<0.00020	0.00037	B535762	0.00030	B534690	0.00032	0.00020	B535762
Total Lithium (Li)	mg/L	<0.020	<0.020	B535770	<0.020	B534736	<0.020	0.020	B535770
Total Magnesium (Mg)	mg/L	3.0	5.5	B535770	5.2	B534736	5.3	0.20	B535770
Total Manganese (Mn)	mg/L	0.043	0.029	B535770	0.031	B534736	0.029	0.0040	B535770
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B535762	<0.00020	B534690	<0.00020	0.00020	B535762
Total Nickel (Ni)	mg/L	0.00079	0.00085	B535762	0.0014	B534690	0.00077	0.00050	B535762
Total Phosphorus (P)	mg/L	<0.10	<0.10	B535770	<0.10	B534736	<0.10	0.10	B535770
Total Potassium (K)	mg/L	1.7	3.1	B535770	2.7	B534736	3.1	0.30	B535770
Total Selenium (Se)	mg/L	<0.00020	0.00022	B535762	<0.00020	B534690	<0.00020	0.00020	B535762
Total Silicon (Si)	mg/L	1.3	0.82	B535770	0.83	B534736	0.82	0.50	B535770
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B535762	<0.00010	B534690	<0.00010	0.00010	B535762
Total Sodium (Na)	mg/L	2.9	2.9	B535770	2.6	B534736	2.9	0.50	B535770
Total Strontium (Sr)	mg/L	0.024	0.038	B535770	0.038	B534736	0.038	0.020	B535770
Total Sulphur (S)	mg/L	2.2	25	B535770	25	B534736	25	0.20	B535770
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B535762	<0.00020	B534690	<0.00020	0.00020	B535762
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B535762	<0.0010	B534690	<0.0010	0.0010	B535762
Total Titanium (Ti)	mg/L	<0.0010	0.0016	B535762	0.0016	B534690	<0.0010	0.0010	B535762
Total Uranium (U)	mg/L	<0.00010	<0.00010	B535762	<0.00010	B534690	<0.00010	0.00010	B535762
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B535762	<0.0010	B534690	<0.0010	0.0010	B535762

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV471	CVV472		CVV473		CVV474		
Sampling Date		2024/09/17 10:30	2024/09/17 09:30		2024/09/17 09:25		2024/09/17 09:35		
COC Number		735701-01-01	735701-01-01		735701-01-01		735701-01-01		
	UNITS	**SC-1**	**SB-1**	**QC Batch**	**SB-2**	**QC Batch**	**CB-1**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.18	0.077	B535762	0.070	B534690	0.067	0.0030	B535762
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV475	CVV476		CVV477	CVV478	CVV479		
Sampling Date		2024/09/17 09:38	2024/09/17 09:44		2024/09/17 09:47	2024/09/17 10:00	2024/09/17 09:55		
COC Number		735701-01-01	735701-01-01		735701-01-01	735701-01-01	735701-01-01		
	UNITS	CB-2	EB-1	QC Batch	EB-2	NB-1	NB-2	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.26	0.36	B527756	0.39	0.27	0.26	0.020	B527756
Total Aluminum (Al)	mg/L	0.038	0.056	B535762	0.069	0.041	0.043	0.0030	B534690
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B535762	<0.00060	<0.00060	<0.00060	0.00060	B534690
Total Arsenic (As)	mg/L	0.00042	0.00041	B535762	0.00039	0.00045	0.00046	0.00020	B534690
Total Barium (Ba)	mg/L	0.011	0.013	B535770	0.013	<0.010	<0.010	0.010	B534736
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B535762	<0.0010	<0.0010	<0.0010	0.0010	B534690
Total Boron (B)	mg/L	<0.020	<0.020	B535770	<0.020	<0.020	<0.020	0.020	B534736
Total Calcium (Ca)	mg/L	33	39	B535770	38	32	32	0.30	B534736
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B535762	<0.0010	<0.0010	<0.0010	0.0010	B534690
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B535762	<0.00030	<0.00030	<0.00030	0.00030	B534690
Total Copper (Cu)	mg/L	0.012	0.016	B535762	0.014	0.011	0.012	0.0010	B534690
Total Iron (Fe)	mg/L	4.6	3.3	B535770	2.7	4.0	3.9	0.060	B534736
Total Lead (Pb)	mg/L	0.00027	0.00089	B535762	0.00068	0.00022	0.00070	0.00020	B534690
Total Lithium (Li)	mg/L	<0.020	<0.020	B535770	<0.020	<0.020	<0.020	0.020	B534736
Total Magnesium (Mg)	mg/L	5.5	6.4	B535770	6.5	5.9	6.0	0.20	B534736
Total Manganese (Mn)	mg/L	0.026	0.018	B535770	0.015	0.026	0.023	0.0040	B534736
Total Molybdenum (Mo)	mg/L	0.00039	<0.00020	B535762	<0.00020	0.00041	<0.00020	0.00020	B534690
Total Nickel (Ni)	mg/L	0.00083	0.0011	B535762	0.0011	0.00068	0.00065	0.00050	B534690
Total Phosphorus (P)	mg/L	<0.10	<0.10	B535770	<0.10	<0.10	<0.10	0.10	B534736
Total Potassium (K)	mg/L	3.5	3.6	B535770	3.3	2.9	2.9	0.30	B534736
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B535762	0.00023	0.00023	<0.00020	0.00020	B534690
Total Silicon (Si)	mg/L	0.78	0.60	B535770	0.62	0.71	0.69	0.50	B534736
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B535762	<0.00010	<0.00010	<0.00010	0.00010	B534690
Total Sodium (Na)	mg/L	3.0	3.1	B535770	2.9	2.5	2.5	0.50	B534736
Total Strontium (Sr)	mg/L	0.041	0.045	B535770	0.048	0.041	0.041	0.020	B534736
Total Sulphur (S)	mg/L	27	34	B535770	36	30	30	0.20	B534736
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B535762	<0.00020	<0.00020	<0.00020	0.00020	B534690
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B535762	<0.0010	<0.0010	<0.0010	0.0010	B534690
Total Titanium (Ti)	mg/L	0.0014	0.0015	B535762	0.0026	0.0012	0.0014	0.0010	B534690
Total Uranium (U)	mg/L	<0.00010	<0.00010	B535762	<0.00010	<0.00010	<0.00010	0.00010	B534690
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B535762	<0.0010	<0.0010	<0.0010	0.0010	B534690

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV475	CVV476		CVV477	CVV478	CVV479		
Sampling Date		2024/09/17 09:38	2024/09/17 09:44		2024/09/17 09:47	2024/09/17 10:00	2024/09/17 09:55		
COC Number		735701-01-01	735701-01-01		735701-01-01	735701-01-01	735701-01-01		
	UNITS	**CB-2**	**EB-1**	**QC Batch**	**EB-2**	**NB-1**	**NB-2**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.072	0.11	B535762	0.10	0.070	0.070	0.0030	B534690
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV480			CVV480			CVV481		
Sampling Date		2024/09/17 10:08			2024/09/17 10:08			2024/09/17 08:38		
COC Number		735701-01-01			735701-01-01			735701-02-01		
	UNITS	CLD	RDL	QC Batch	CLD Lab-Dup	RDL	QC Batch	CL-3 SFC	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L	0.26	0.020	B527756				0.053	0.020	B527756
Total Aluminum (Al)	mg/L	0.047	0.0030	B534690	0.053	0.0030	B534690	0.030	0.0030	B534690
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B534690	<0.00060	0.00060	B534690	<0.00060	0.00060	B534690
Total Arsenic (As)	mg/L	0.00036	0.00020	B534690	0.00043	0.00020	B534690	0.00053	0.00020	B534690
Total Barium (Ba)	mg/L	<0.010	0.010	B534736	<0.010	0.010	B534736	<0.010	0.010	B534736
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B534690	<0.0010	0.0010	B534690	<0.0010	0.0010	B534690
Total Boron (B)	mg/L	<0.020	0.020	B534736	<0.020	0.020	B534736	<0.020	0.020	B534736
Total Calcium (Ca)	mg/L	33	0.30	B534736	33	0.30	B534736	15	0.30	B534736
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B534690	<0.0010	0.0010	B534690	<0.0010	0.0010	B534690
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B534690	<0.00030	0.00030	B534690	<0.00030	0.00030	B534690
Total Copper (Cu)	mg/L	0.012	0.0010	B534690	0.013	0.0010	B534690	0.0067	0.0010	B534690
Total Iron (Fe)	mg/L	4.1	0.060	B534736	4.1	0.060	B534736	0.50	0.060	B534736
Total Lead (Pb)	mg/L	0.00024	0.00020	B534690	0.00030	0.00020	B534690	<0.00020	0.00020	B534690
Total Lithium (Li)	mg/L	<0.020	0.020	B534736	<0.020	0.020	B534736	<0.020	0.020	B534736
Total Magnesium (Mg)	mg/L	6.1	0.20	B534736	6.0	0.20	B534736	3.7	0.20	B534736
Total Manganese (Mn)	mg/L	0.027	0.0040	B534736	0.027	0.0040	B534736	0.018	0.0040	B534736
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B534690	0.00042	0.00020	B534690	0.00034	0.00020	B534690
Total Nickel (Ni)	mg/L	0.00096	0.00050	B534690	0.00073	0.00050	B534690	<0.00050	0.00050	B534690
Total Phosphorus (P)	mg/L	<0.10	0.10	B534736	<0.10	0.10	B534736	<0.10	0.10	B534736
Total Potassium (K)	mg/L	2.9	0.30	B534736	2.9	0.30	B534736	1.7	0.30	B534736
Total Selenium (Se)	mg/L	<0.00020	0.00020	B534690	0.00023	0.00020	B534690	<0.00020	0.00020	B534690
Total Silicon (Si)	mg/L	0.73	0.50	B534736	0.70	0.50	B534736	0.74	0.50	B534736
Total Silver (Ag)	mg/L	<0.00010	0.00010	B534690	<0.00010	0.00010	B534690	<0.00010	0.00010	B534690
Total Sodium (Na)	mg/L	2.6	0.50	B534736	2.5	0.50	B534736	2.1	0.50	B534736
Total Strontium (Sr)	mg/L	0.042	0.020	B534736	0.041	0.020	B534736	0.030	0.020	B534736
Total Sulphur (S)	mg/L	31	0.20	B534736	31	0.20	B534736	8.7	0.20	B534736
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B534690	<0.00020	0.00020	B534690	<0.00020	0.00020	B534690
Total Tin (Sn)	mg/L	<0.0010	0.0010	B534690	<0.0010	0.0010	B534690	<0.0010	0.0010	B534690
Total Titanium (Ti)	mg/L	0.0015	0.0010	B534690	0.0020	0.0010	B534690	0.0010	0.0010	B534690
Total Uranium (U)	mg/L	<0.00010	0.00010	B534690	<0.00010	0.00010	B534690	<0.00010	0.00010	B534690
Total Vanadium (V)	mg/L	<0.0010	0.0010	B534690	<0.0010	0.0010	B534690	<0.0010	0.0010	B534690

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV480			CVV480			CVV481		
Sampling Date		2024/09/17 10:08			2024/09/17 10:08			2024/09/17 08:38		
COC Number		735701-01-01			735701-01-01			735701-02-01		
	UNITS	**CLD**	**RDL**	**QC Batch**	**CLD Lab-Dup**	**RDL**	**QC Batch**	**CL-3 SFC**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.071	0.0030	B534690	0.079	0.0030	B534690	0.017	0.0030	B534690

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV482	CVV483	CVV484	CVV485		CVV486		
Sampling Date		2024/09/17 08:40	2024/09/17 08:47	2024/09/17 08:50	2024/09/17 08:34		2024/09/17 08:37		
COC Number		735701-02-01	735701-02-01	735701-02-01	735701-02-01		735701-02-01		
	UNITS	CL-3 BTM	CL-7 SFC	CL-7 BTM	CL-8 SFC	QC Batch	CL-8 BTM	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.049	0.050	0.043	0.052	B527756	0.045	0.020	B528530
Total Aluminum (Al)	mg/L	0.037	0.029	0.030	0.031	B534690	0.030	0.0030	B534690
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	B534690	<0.00060	0.00060	B534690
Total Arsenic (As)	mg/L	0.00048	0.00054	0.00048	0.00050	B534690	0.00043	0.00020	B534690
Total Barium (Ba)	mg/L	<0.010	<0.010	<0.010	<0.010	B534736	<0.010	0.010	B534736
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	B534690	<0.0010	0.0010	B534690
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	B534736	<0.020	0.020	B534736
Total Calcium (Ca)	mg/L	14	14	14	14	B534736	14	0.30	B534736
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	B534690	<0.0010	0.0010	B534690
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	B534690	<0.00030	0.00030	B534690
Total Copper (Cu)	mg/L	0.0070	0.0064	0.0074	0.0063	B534690	0.0066	0.0010	B534690
Total Iron (Fe)	mg/L	0.49	0.38	0.41	0.40	B534736	0.41	0.060	B534736
Total Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	B534690	<0.00020	0.00020	B534690
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	B534736	<0.020	0.020	B534736
Total Magnesium (Mg)	mg/L	3.7	3.6	3.6	3.6	B534736	3.6	0.20	B534736
Total Manganese (Mn)	mg/L	0.017	0.017	0.017	0.017	B534736	0.017	0.0040	B534736
Total Molybdenum (Mo)	mg/L	<0.00020	0.00034	0.0043	<0.00020	B534690	<0.00020	0.00020	B534690
Total Nickel (Ni)	mg/L	<0.00050	<0.00050	<0.00050	0.00068	B534690	0.00093	0.00050	B534690
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	B534736	<0.10	0.10	B534736
Total Potassium (K)	mg/L	1.7	1.7	1.7	1.7	B534736	1.7	0.30	B534736
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	B534690	<0.00020	0.00020	B534690
Total Silicon (Si)	mg/L	0.80	0.72	0.74	0.73	B534736	0.74	0.50	B534736
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	B534690	<0.00010	0.00010	B534690
Total Sodium (Na)	mg/L	2.1	2.1	2.0	2.1	B534736	2.1	0.50	B534736
Total Strontium (Sr)	mg/L	0.030	0.029	0.029	0.029	B534736	0.029	0.020	B534736
Total Sulphur (S)	mg/L	8.5	7.9	8.0	8.0	B534736	8.0	0.20	B534736
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	B534690	<0.00020	0.00020	B534690
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	B534690	<0.0010	0.0010	B534690
Total Titanium (Ti)	mg/L	0.0012	<0.0010	0.0011	<0.0010	B534690	0.0010	0.0010	B534690
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	B534690	<0.00010	0.00010	B534690
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	B534690	<0.0010	0.0010	B534690

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV482	CVV483	CVV484	CVV485		CVV486		
Sampling Date		2024/09/17 08:40	2024/09/17 08:47	2024/09/17 08:50	2024/09/17 08:34		2024/09/17 08:37		
COC Number		735701-02-01	735701-02-01	735701-02-01	735701-02-01		735701-02-01		
	UNITS	**CL-3 BTM**	**CL-7 SFC**	**CL-7 BTM**	**CL-8 SFC**	**QC Batch**	**CL-8 BTM**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.018	0.015	0.016	0.015	B534690	0.014	0.0030	B534690
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV487	CVV488			CVV488		
Sampling Date		2024/09/17 08:56	2024/09/17 09:00			2024/09/17 09:00		
COC Number		735701-02-01	735701-02-01			735701-02-01		
	UNITS	CL-2 SFC	CL-2 BTM	RDL	QC Batch	CL-2 BTM Lab-Dup	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.046	0.052	0.020	B528530			
Total Aluminum (Al)	mg/L	0.033	0.030	0.0030	B535762	0.033	0.0030	B535762
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B535762	<0.00060	0.00060	B535762
Total Arsenic (As)	mg/L	0.00051	0.00047	0.00020	B535762	0.00059	0.00020	B535762
Total Barium (Ba)	mg/L	0.011	0.010	0.010	B535770	0.010	0.010	B535770
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B535762	<0.0010	0.0010	B535762
Total Boron (B)	mg/L	<0.020	<0.020	0.020	B535770	<0.020	0.020	B535770
Total Calcium (Ca)	mg/L	17	17	0.30	B535770	17	0.30	B535770
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B535762	<0.0010	0.0010	B535762
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	0.00030	B535762	<0.00030	0.00030	B535762
Total Copper (Cu)	mg/L	0.0078	0.0075	0.0010	B535762	0.0090	0.0010	B535762
Total Iron (Fe)	mg/L	0.40	0.39	0.060	B535770	0.38	0.060	B535770
Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00020	B535762	<0.00020	0.00020	B535762
Total Lithium (Li)	mg/L	<0.020	<0.020	0.020	B535770	<0.020	0.020	B535770
Total Magnesium (Mg)	mg/L	3.6	3.7	0.20	B535770	3.6	0.20	B535770
Total Manganese (Mn)	mg/L	0.020	0.019	0.0040	B535770	0.019	0.0040	B535770
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	0.00020	B535762	<0.00020	0.00020	B535762
Total Nickel (Ni)	mg/L	0.00053	0.00066	0.00050	B535762	0.00068	0.00050	B535762
Total Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B535770	<0.10	0.10	B535770
Total Potassium (K)	mg/L	2.1	2.1	0.30	B535770	2.1	0.30	B535770
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B535762	<0.00020	0.00020	B535762
Total Silicon (Si)	mg/L	0.78	0.82	0.50	B535770	0.79	0.50	B535770
Total Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B535762	<0.00010	0.00010	B535762
Total Sodium (Na)	mg/L	2.6	2.6	0.50	B535770	2.5	0.50	B535770
Total Strontium (Sr)	mg/L	0.030	0.028	0.020	B535770	0.028	0.020	B535770
Total Sulphur (S)	mg/L	8.0	7.8	0.20	B535770	7.7	0.20	B535770
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B535762	<0.00020	0.00020	B535762
Total Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B535762	<0.0010	0.0010	B535762
Total Titanium (Ti)	mg/L	<0.0010	<0.0010	0.0010	B535762	0.0012	0.0010	B535762
Total Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	B535762	<0.00010	0.00010	B535762
Total Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B535762	<0.0010	0.0010	B535762

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV487	CVV488			CVV488		
Sampling Date		2024/09/17 08:56	2024/09/17 09:00			2024/09/17 09:00		
COC Number		735701-02-01	735701-02-01			735701-02-01		
	UNITS	**CL-2 SFC**	**CL-2 BTM**	**RDL**	**QC Batch**	**CL-2 BTM Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.019	0.019	0.0030	B535762	0.020	0.0030	B535762

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV489		CVV490		CVV491	CVV492		
Sampling Date		2024/09/17 08:27		2024/09/17 08:30		2024/09/17 08:15	2024/09/17 08:20		
COC Number		735701-02-01		735701-02-01		735701-03-01	735701-03-01		
	UNITS	CL-4 SFC	QC Batch	CL-4 BTM	QC Batch	CL-5 SFC	CL-5 BTM	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.048	B528530	0.047	B528530	0.037	0.043	0.020	B528530
Total Aluminum (Al)	mg/L	0.030	B534690	0.038	B535762	0.038	0.036	0.0030	B534690
Total Antimony (Sb)	mg/L	<0.00060	B534690	<0.00060	B535762	<0.00060	<0.00060	0.00060	B534690
Total Arsenic (As)	mg/L	0.00052	B534690	0.00052	B535762	0.00049	0.00044	0.00020	B534690
Total Barium (Ba)	mg/L	<0.010	B534736	0.011	B535770	<0.010	<0.010	0.010	B534736
Total Beryllium (Be)	mg/L	<0.0010	B534690	<0.0010	B535762	<0.0010	<0.0010	0.0010	B534690
Total Boron (B)	mg/L	<0.020	B534736	<0.020	B535770	<0.020	<0.020	0.020	B534736
Total Calcium (Ca)	mg/L	13	B534736	17	B535770	13	13	0.30	B534736
Total Chromium (Cr)	mg/L	<0.0010	B534690	<0.0010	B535762	<0.0010	<0.0010	0.0010	B534690
Total Cobalt (Co)	mg/L	<0.00030	B534690	<0.00030	B535762	<0.00030	<0.00030	0.00030	B534690
Total Copper (Cu)	mg/L	0.0061	B534690	0.0075	B535762	0.0066	0.0063	0.0010	B534690
Total Iron (Fe)	mg/L	0.34	B534736	0.40	B535770	0.32	0.30	0.060	B534736
Total Lead (Pb)	mg/L	<0.00020	B534690	<0.00020	B535762	<0.00020	<0.00020	0.00020	B534690
Total Lithium (Li)	mg/L	<0.020	B534736	<0.020	B535770	<0.020	<0.020	0.020	B534736
Total Magnesium (Mg)	mg/L	3.5	B534736	3.6	B535770	3.5	3.4	0.20	B534736
Total Manganese (Mn)	mg/L	0.016	B534736	0.022	B535770	0.016	0.016	0.0040	B534736
Total Molybdenum (Mo)	mg/L	0.0014	B534690	<0.00020	B535762	<0.00020	<0.00020	0.00020	B534690
Total Nickel (Ni)	mg/L	<0.00050	B534690	0.00051	B535762	0.00061	<0.00050	0.00050	B534690
Total Phosphorus (P)	mg/L	<0.10	B534736	<0.10	B535770	<0.10	<0.10	0.10	B534736
Total Potassium (K)	mg/L	1.7	B534736	2.1	B535770	1.7	1.6	0.30	B534736
Total Selenium (Se)	mg/L	<0.00020	B534690	<0.00020	B535762	<0.00020	<0.00020	0.00020	B534690
Total Silicon (Si)	mg/L	0.72	B534736	0.80	B535770	0.71	0.74	0.50	B534736
Total Silver (Ag)	mg/L	<0.00010	B534690	<0.00010	B535762	<0.00010	<0.00010	0.00010	B534690
Total Sodium (Na)	mg/L	2.0	B534736	2.6	B535770	2.1	2.0	0.50	B534736
Total Strontium (Sr)	mg/L	0.029	B534736	0.030	B535770	0.029	0.029	0.020	B534736
Total Sulphur (S)	mg/L	7.5	B534736	7.4	B535770	7.3	7.1	0.20	B534736
Total Thallium (Tl)	mg/L	<0.00020	B534690	<0.00020	B535762	<0.00020	<0.00020	0.00020	B534690
Total Tin (Sn)	mg/L	<0.0010	B534690	<0.0010	B535762	<0.0010	<0.0010	0.0010	B534690
Total Titanium (Ti)	mg/L	0.0012	B534690	0.0014	B535762	0.0012	0.0012	0.0010	B534690
Total Uranium (U)	mg/L	<0.00010	B534690	<0.00010	B535762	<0.00010	<0.00010	0.00010	B534690
Total Vanadium (V)	mg/L	<0.0010	B534690	<0.0010	B535762	<0.0010	<0.0010	0.0010	B534690

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV489		CVV490		CVV491	CVV492		
Sampling Date		2024/09/17 08:27		2024/09/17 08:30		2024/09/17 08:15	2024/09/17 08:20		
COC Number		735701-02-01		735701-02-01		735701-03-01	735701-03-01		
	UNITS	CL-4 SFC	QC Batch	CL-4 BTM	QC Batch	CL-5 SFC	CL-5 BTM	RDL	QC Batch
Total Zinc (Zn)	mg/L	0.013	B534690	0.016	B535762	0.014	0.013	0.0030	B534690
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV493	CVV494	CVV495	CVV496	CVV497		
Sampling Date		2024/09/17 08:10	2024/09/17 08:05	2024/09/17	2024/09/17	2024/09/17		
COC Number		735701-03-01	735701-03-01	735701-03-01	735701-03-01	735701-03-01		
	UNITS	**CL-6 SFC**	**CL-6 BTM**	**CSW-128**	**CSW-129**	**CSW-130**	**RDL**	**QC Batch**
Elements								
Total Cadmium (Cd)	ug/L	0.027	0.035	0.34	0.29	0.052	0.020	B528530
Total Aluminum (Al)	mg/L	0.036	0.037	0.055	0.049	0.030	0.0030	B535762
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B535762
Total Arsenic (As)	mg/L	0.00062	0.00055	0.00059	0.00051	0.00049	0.00020	B535762
Total Barium (Ba)	mg/L	0.010	0.011	0.011	0.011	0.011	0.010	B535770
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B535762
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B535770
Total Calcium (Ca)	mg/L	14	14	40	37	18	0.30	B535770
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B535762
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030	0.00030	B535762
Total Copper (Cu)	mg/L	0.0052	0.0056	0.017	0.013	0.0069	0.0010	B535762
Total Iron (Fe)	mg/L	0.19	0.18	4.2	4.0	0.54	0.060	B535770
Total Lead (Pb)	mg/L	<0.00020	<0.00020	0.00029	0.00020	0.00025	0.00020	B535762
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	0.020	B535770
Total Magnesium (Mg)	mg/L	3.4	3.5	6.1	6.0	3.7	0.20	B535770
Total Manganese (Mn)	mg/L	0.013	0.013	0.024	0.027	0.018	0.0040	B535770
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	0.00058	<0.00020	<0.00020	0.00020	B535762
Total Nickel (Ni)	mg/L	<0.00050	0.00057	0.0012	0.00084	0.00057	0.00050	B535762
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	B535770
Total Potassium (K)	mg/L	2.0	1.9	3.7	3.4	2.3	0.30	B535770
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00022	<0.00020	<0.00020	0.00020	B535762
Total Silicon (Si)	mg/L	0.57	0.61	0.71	0.73	0.78	0.50	B535770
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B535762
Total Sodium (Na)	mg/L	2.5	2.4	3.2	3.0	2.7	0.50	B535770
Total Strontium (Sr)	mg/L	0.029	0.029	0.042	0.041	0.030	0.020	B535770
Total Sulphur (S)	mg/L	5.9	5.9	30	30	8.9	0.20	B535770
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B535762
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B535762
Total Titanium (Ti)	mg/L	0.0013	0.0019	0.0021	0.0016	<0.0010	0.0010	B535762
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B535762
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B535762

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV493	CVV494	CVV495	CVV496	CVV497		
Sampling Date		2024/09/17 08:10	2024/09/17 08:05	2024/09/17	2024/09/17	2024/09/17		
COC Number		735701-03-01	735701-03-01	735701-03-01	735701-03-01	735701-03-01		
	UNITS	**CL-6 SFC**	**CL-6 BTM**	**CSW-128**	**CSW-129**	**CSW-130**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.011	0.012	0.099	0.080	0.018	0.0030	B535762
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV498		
Sampling Date				
COC Number		735701-03-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Elements				
Total Cadmium (Cd)	ug/L	<0.020	0.020	B528530
Total Aluminum (Al)	mg/L	<0.0030	0.0030	B534690
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B534690
Total Arsenic (As)	mg/L	<0.00020	0.00020	B534690
Total Barium (Ba)	mg/L	<0.010	0.010	B534736
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B534690
Total Boron (B)	mg/L	<0.020	0.020	B534736
Total Calcium (Ca)	mg/L	<0.30	0.30	B534736
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B534690
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B534690
Total Copper (Cu)	mg/L	<0.0010	0.0010	B534690
Total Iron (Fe)	mg/L	<0.060	0.060	B534736
Total Lead (Pb)	mg/L	<0.00020	0.00020	B534690
Total Lithium (Li)	mg/L	<0.020	0.020	B534736
Total Magnesium (Mg)	mg/L	<0.20	0.20	B534736
Total Manganese (Mn)	mg/L	<0.0040	0.0040	B534736
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B534690
Total Nickel (Ni)	mg/L	<0.00050	0.00050	B534690
Total Phosphorus (P)	mg/L	<0.10	0.10	B534736
Total Potassium (K)	mg/L	<0.30	0.30	B534736
Total Selenium (Se)	mg/L	<0.00020	0.00020	B534690
Total Silicon (Si)	mg/L	<0.50	0.50	B534736
Total Silver (Ag)	mg/L	<0.00010	0.00010	B534690
Total Sodium (Na)	mg/L	<0.50	0.50	B534736
Total Strontium (Sr)	mg/L	<0.020	0.020	B534736
Total Sulphur (S)	mg/L	<0.20	0.20	B534736
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B534690
Total Tin (Sn)	mg/L	<0.0010	0.0010	B534690
Total Titanium (Ti)	mg/L	<0.0010	0.0010	B534690
Total Uranium (U)	mg/L	<0.00010	0.00010	B534690
Total Vanadium (V)	mg/L	<0.0010	0.0010	B534690
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CVV498		
Sampling Date				
COC Number		735701-03-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	<0.0030	0.0030	B534690
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CVV471			CVV471			CVV472		
Sampling Date		2024/09/17 10:30			2024/09/17 10:30			2024/09/17 09:30		
COC Number		735701-01-01			735701-01-01			735701-01-01		
	UNITS	SC-1	RDL	QC Batch	SC-1 Lab-Dup	RDL	QC Batch	SB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	36	0.50	B528303				88	0.50	B528303
Total Hardness (CaCO3)	mg/L	37.0	0.50	B527772				98.1	0.50	B527772
Misc. Inorganics										
pH	pH	6.25	N/A	B530955				5.90	N/A	B530808
Total Organic Carbon (C)	mg/L	13	0.50	B532865	14	0.50	B532865	11	0.50	B532865
Total Suspended Solids	mg/L	1.5	1.0	B531798				2.1	1.0	B531798
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	14	0.50	B532038				11	0.50	B531902
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B530953				<1.0	1.0	B530772
Alkalinity (Total as CaCO3)	mg/L	32	1.0	B530953				14	1.0	B530772
Bicarbonate (HCO3)	mg/L	39	1.0	B530953				17	1.0	B530772
Carbonate (CO3)	mg/L	<1.0	1.0	B530953				<1.0	1.0	B530772
Hydroxide (OH)	mg/L	<1.0	1.0	B530953				<1.0	1.0	B530772
Sulphate (SO4)	mg/L	5.7	1.0	B530961				81	1.0	B530959
Physical Properties										
Turbidity	NTU	2.3	0.10	B528193				6.9	0.10	B528193

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CVV473		CVV474			CVV475		
Sampling Date		2024/09/17 09:25		2024/09/17 09:35			2024/09/17 09:38		
COC Number		735701-01-01		735701-01-01			735701-01-01		
	UNITS	SB-2	QC Batch	CB-1	RDL	QC Batch	CB-2	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	97	B528303	88	0.50	B528303	94	0.50	B528303
Total Hardness (CaCO3)	mg/L	88.7	B527772	96.8	0.50	B527772	104	0.50	B527772
Misc. Inorganics									
pH	pH	6.02	B530955	5.92	N/A	B530808	5.88	N/A	B530808
Total Organic Carbon (C)	mg/L	12	B532865	12	0.50	B532865	10	0.50	B532865
Total Suspended Solids	mg/L	1.9	B531798	<1.0	1.0	B531798	2.2	0.99	B531798
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	12	B531902	12	0.50	B531902	12	0.50	B531902
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B530953	<1.0	1.0	B530772	<1.0	1.0	B530772
Alkalinity (Total as CaCO3)	mg/L	14	B530953	16	1.0	B530772	13	1.0	B530772
Bicarbonate (HCO3)	mg/L	17	B530953	20	1.0	B530772	16	1.0	B530772
Carbonate (CO3)	mg/L	<1.0	B530953	<1.0	1.0	B530772	<1.0	1.0	B530772
Hydroxide (OH)	mg/L	<1.0	B530953	<1.0	1.0	B530772	<1.0	1.0	B530772
Sulphate (SO4)	mg/L	80	B530959	81	1.0	B530961	85	1.0	B530861
Physical Properties									
Turbidity	NTU	7.8	B528193	6.9	0.10	B528193	7.0	0.10	B528193

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CVV476			CVV476			CVV477		
Sampling Date		2024/09/17 09:44			2024/09/17 09:44			2024/09/17 09:47		
COC Number		735701-01-01			735701-01-01			735701-01-01		
	UNITS	EB-1	RDL	QC Batch	EB-1 Lab-Dup	RDL	QC Batch	EB-2	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	110	0.50	B528303				130	0.50	B528303
Total Hardness (CaCO3)	mg/L	125	0.50	B527772				122	0.50	B527772
Misc. Inorganics										
pH	pH	5.79	N/A	B530808	5.85	N/A	B530808	5.86	N/A	B530808
Total Organic Carbon (C)	mg/L	9.5	0.50	B532865				10	0.50	B533021
Total Suspended Solids	mg/L	1.4	1.0	B531798				1.2	0.97	B531798
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B531902				9.9	0.50	B531902
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B530772	<1.0	1.0	B530772	<1.0	1.0	B530772
Alkalinity (Total as CaCO3)	mg/L	12	1.0	B530772	12	1.0	B530772	13	1.0	B530772
Bicarbonate (HCO3)	mg/L	15	1.0	B530772	15	1.0	B530772	16	1.0	B530772
Carbonate (CO3)	mg/L	<1.0	1.0	B530772	<1.0	1.0	B530772	<1.0	1.0	B530772
Hydroxide (OH)	mg/L	<1.0	1.0	B530772	<1.0	1.0	B530772	<1.0	1.0	B530772
Sulphate (SO4)	mg/L	110	1.0	B530961	110	1.0	B530961	110	1.0	B530799
Physical Properties										
Turbidity	NTU	6.5	0.10	B528193				6.4	0.10	B528193

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C474261
Report Date: 2024/09/26

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CVV478		CVV479			CVV479		
Sampling Date		2024/09/17 10:00		2024/09/17 09:55			2024/09/17 09:55		
COC Number		735701-01-01		735701-01-01			735701-01-01		
	UNITS	NB-1	QC Batch	NB-2	RDL	QC Batch	NB-2 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	110	B528303	120	0.50	B528303			
Total Hardness (CaCO3)	mg/L	104	B527772	105	0.50	B527772			
Misc. Inorganics									
pH	pH	5.88	B530808	5.90	N/A	B530808			
Total Organic Carbon (C)	mg/L	11	B533021	11	0.50	B533021			
Total Suspended Solids	mg/L	1.1	B531798	<1.0	1.0	B531798			
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	11	B531901	10	0.50	B531902	11	0.50	B531902
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B530772	<1.0	1.0	B530772			
Alkalinity (Total as CaCO3)	mg/L	13	B530772	13	1.0	B530772			
Bicarbonate (HCO3)	mg/L	16	B530772	16	1.0	B530772			
Carbonate (CO3)	mg/L	<1.0	B530772	<1.0	1.0	B530772			
Hydroxide (OH)	mg/L	<1.0	B530772	<1.0	1.0	B530772			
Sulphate (SO4)	mg/L	100	B530799	95	1.0	B530799			
Physical Properties									
Turbidity	NTU	6.7 (1)	B528640	7.2 (1)	0.20	B528640			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CVV480			CVV481		CVV482		
Sampling Date		2024/09/17 10:08			2024/09/17 08:38		2024/09/17 08:40		
COC Number		735701-01-01			735701-02-01		735701-02-01		
	UNITS	CLD	RDL	QC Batch	CL-3 SFC	QC Batch	CL-3 BTM	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	110	0.50	B528303	52	B528303	54	0.50	B528303
Total Hardness (CaCO3)	mg/L	108	0.50	B527772	51.8	B527772	50.9	0.50	B527772
Misc. Inorganics									
pH	pH	5.86	N/A	B530808	6.05	B530808	6.20	N/A	B530955
Total Organic Carbon (C)	mg/L	10	0.50	B532865	11	B533021	9.6	0.50	B532865
Total Suspended Solids	mg/L	2.7	0.99	B531798	<1.0	B531798	<1.0	1.0	B531798
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	11	0.50	B531902	11	B531902	11	0.50	B531902
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B530772	<1.0	B530772	<1.0	1.0	B530953
Alkalinity (Total as CaCO3)	mg/L	13	1.0	B530772	29	B530772	31	1.0	B530953
Bicarbonate (HCO3)	mg/L	16	1.0	B530772	35	B530772	37	1.0	B530953
Carbonate (CO3)	mg/L	<1.0	1.0	B530772	<1.0	B530772	<1.0	1.0	B530953
Hydroxide (OH)	mg/L	<1.0	1.0	B530772	<1.0	B530772	<1.0	1.0	B530953
Sulphate (SO4)	mg/L	97	1.0	B530799	30	B530799	28	1.0	B530959
Physical Properties									
Turbidity	NTU	7.8 (1)	0.20	B528640	2.6	B528640	2.6	0.10	B528640

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C474261
Report Date: 2024/09/26

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CVV483			CVV483			CVV484		
Sampling Date		2024/09/17 08:47			2024/09/17 08:47			2024/09/17 08:50		
COC Number		735701-02-01			735701-02-01			735701-02-01		
	UNITS	CL-7 SFC	RDL	QC Batch	CL-7 SFC Lab-Dup	RDL	QC Batch	CL-7 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	52	0.50	B528303				52	0.50	B528571
Total Hardness (CaCO3)	mg/L	49.2	0.50	B527772				49.4	0.50	B527772
Misc. Inorganics										
pH	pH	6.08	N/A	B530808				6.06	N/A	B530808
Total Organic Carbon (C)	mg/L	11	0.50	B533021	11	0.50	B533021	9.6	0.50	B532865
Total Suspended Solids	mg/L	<1.0	1.0	B532168	<1.0	1.0	B532168	1.1	1.0	B532168
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B531902				11	0.50	B531901
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B530772				<1.0	1.0	B530772
Alkalinity (Total as CaCO3)	mg/L	28	1.0	B530772				30	1.0	B530772
Bicarbonate (HCO3)	mg/L	34	1.0	B530772				37	1.0	B530772
Carbonate (CO3)	mg/L	<1.0	1.0	B530772				<1.0	1.0	B530772
Hydroxide (OH)	mg/L	<1.0	1.0	B530772				<1.0	1.0	B530772
Sulphate (SO4)	mg/L	27	1.0	B530799				27	1.0	B530799
Physical Properties										
Turbidity	NTU	2.6	0.10	B528640				2.7	0.10	B528640

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C474261
Report Date: 2024/09/26

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CVV485			CVV485			CVV486		
Sampling Date		2024/09/17 08:34			2024/09/17 08:34			2024/09/17 08:37		
COC Number		735701-02-01			735701-02-01			735701-02-01		
	UNITS	CL-8 SFC	RDL	QC Batch	CL-8 SFC Lab-Dup	RDL	QC Batch	CL-8 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	52	0.50	B528571				51	0.50	B528571
Total Hardness (CaCO3)	mg/L	49.7	0.50	B527772				49.5	0.50	B527772
Misc. Inorganics										
pH	pH	6.21	N/A	B530955				6.07	N/A	B530808
Total Organic Carbon (C)	mg/L	9.7	0.50	B532865				9.6	0.50	B532865
Total Suspended Solids	mg/L	1.1	1.0	B532168				1.3	1.0	B532168
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	9.9	0.50	B532038	11	0.50	B532038	11	0.50	B531901
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B530953				<1.0	1.0	B530772
Alkalinity (Total as CaCO3)	mg/L	29	1.0	B530953				28	1.0	B530772
Bicarbonate (HCO3)	mg/L	36	1.0	B530953				34	1.0	B530772
Carbonate (CO3)	mg/L	<1.0	1.0	B530953				<1.0	1.0	B530772
Hydroxide (OH)	mg/L	<1.0	1.0	B530953				<1.0	1.0	B530772
Sulphate (SO4)	mg/L	27	1.0	B530959				28	1.0	B530799
Physical Properties										
Turbidity	NTU	2.6	0.10	B528640				3.0	0.10	B528640

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C474261
Report Date: 2024/09/26

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AR

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CVV487		CVV488		CVV489		CVV490		
Sampling Date		2024/09/17 08:56		2024/09/17 09:00		2024/09/17 08:27		2024/09/17 08:30		
COC Number		735701-02-01		735701-02-01		735701-02-01		735701-02-01		
	UNITS	CL-2 SFC	QC Batch	CL-2 BTM	QC Batch	CL-4 SFC	QC Batch	CL-4 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	49	B528571	49	B528571	50	B528571	47	0.50	B528571
Total Hardness (CaCO3)	mg/L	57.2	B527772	57.0	B527772	47.6	B527772	56.4	0.50	B527772
Misc. Inorganics										
pH	pH	6.21	B530955	6.06	B530808	6.09	B530808	6.06	N/A	B530808
Total Organic Carbon (C)	mg/L	9.3	B532865	10	B533021	10	B532865	9.7	0.50	B532865
Total Suspended Solids	mg/L	<1.0	B532168	<1.0	B532168	<1.0	B532156	1.4	1.0	B532156
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	B531902	12	B531902	10	B532038	11	0.50	B531902
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	B530953	<1.0	B530772	<1.0	B530772	<1.0	1.0	B530772
Alkalinity (Total as CaCO3)	mg/L	28	B530953	28	B530772	29	B530772	29	1.0	B530772
Bicarbonate (HCO3)	mg/L	34	B530953	34	B530772	35	B530772	35	1.0	B530772
Carbonate (CO3)	mg/L	<1.0	B530953	<1.0	B530772	<1.0	B530772	<1.0	1.0	B530772
Hydroxide (OH)	mg/L	<1.0	B530953	<1.0	B530772	<1.0	B530772	<1.0	1.0	B530772
Sulphate (SO4)	mg/L	27	B530861	27	B530961	26	B530961	24	1.0	B530959
Physical Properties										
Turbidity	NTU	2.5	B528640	2.9	B528640	2.6	B528640	2.9	0.10	B528640

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CVV491		CVV492			CVV493		
Sampling Date		2024/09/17 08:15		2024/09/17 08:20			2024/09/17 08:10		
COC Number		735701-03-01		735701-03-01			735701-03-01		
	UNITS	CL-5 SFC	QC Batch	CL-5 BTM	RDL	QC Batch	CL-6 SFC	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	47	B528571	47	0.50	B528571	45	0.50	B528571
Total Hardness (CaCO3)	mg/L	48.0	B527772	46.9	0.50	B527772	50.1	0.50	B528577
Misc. Inorganics									
pH	pH	6.23	B530955	6.05	N/A	B530808	6.22	N/A	B530955
Total Organic Carbon (C)	mg/L	10	B532865	9.5	0.50	B533021	9.8	0.50	B532865
Total Suspended Solids	mg/L	1.3	B532156	<1.0	1.0	B532156	1.8	0.99	B532168
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	10	B532038	11	0.50	B531902	11	0.50	B531902
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B530953	<1.0	1.0	B530772	<1.0	1.0	B530953
Alkalinity (Total as CaCO3)	mg/L	30	B530953	28	1.0	B530772	29	1.0	B530953
Bicarbonate (HCO3)	mg/L	36	B530953	34	1.0	B530772	35	1.0	B530953
Carbonate (CO3)	mg/L	<1.0	B530953	<1.0	1.0	B530772	<1.0	1.0	B530953
Hydroxide (OH)	mg/L	<1.0	B530953	<1.0	1.0	B530772	<1.0	1.0	B530953
Sulphate (SO4)	mg/L	24	B530961	24	1.0	B530961	19	1.0	B530959
Physical Properties									
Turbidity	NTU	2.5	B528640	2.7	0.10	B528640	2.2	0.10	B528640

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CVV494			CVV495		CVV496		
Sampling Date		2024/09/17 08:05			2024/09/17		2024/09/17		
COC Number		735701-03-01			735701-03-01		735701-03-01		
	UNITS	**CL-6 BTM**	**RDL**	**QC Batch**	**CSW-128**	**QC Batch**	**CSW-129**	**RDL**	**QC Batch**
Calculated Parameters									
Hardness (CaCO3)	mg/L	44	0.50	B528571	110	B528571	100	0.50	B528571
Total Hardness (CaCO3)	mg/L	49.0	0.50	B528579	124	B528577	118	0.50	B528579
Misc. Inorganics									
pH	pH	6.08	N/A	B530808	6.01	B530955	6.15	N/A	B530955
Total Organic Carbon (C)	mg/L	11	0.50	B533021	10	B532865	10	0.50	B532865
Total Suspended Solids	mg/L	<1.0	1.0	B532168	<1.0	B532168	2.2	1.0	B532168
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	11	0.50	B531902	10	B532038	11	0.50	B531902
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B530772	<1.0	B530953	<1.0	1.0	B530953
Alkalinity (Total as CaCO3)	mg/L	29	1.0	B530772	13	B530953	14	1.0	B530953
Bicarbonate (HCO3)	mg/L	35	1.0	B530772	16	B530953	17	1.0	B530953
Carbonate (CO3)	mg/L	<1.0	1.0	B530772	<1.0	B530953	<1.0	1.0	B530953
Hydroxide (OH)	mg/L	<1.0	1.0	B530772	<1.0	B530953	<1.0	1.0	B530953
Sulphate (SO4)	mg/L	19	1.0	B530961	97	B530961	98	1.0	B530961
Physical Properties									
Turbidity	NTU	1.9	0.10	B528640	6.6 (1)	B528640	7.3 (1)	0.20	B528640

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CVV497		CVV498			CVV498		
Sampling Date		2024/09/17							
COC Number		735701-03-01		735701-03-01			735701-03-01		
	UNITS	CSW-130	QC Batch	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	54	B528571	<0.50	0.50	B528571			
Total Hardness (CaCO3)	mg/L	61.1	B528579	<0.50	0.50	B528579			
Misc. Inorganics									
pH	pH	6.20	B530955	5.16	N/A	B530808			
Total Organic Carbon (C)	mg/L	10	B532865	<0.50	0.50	B532865			
Total Suspended Solids	mg/L	<1.0	B532168	<1.0	1.0	B529207			
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	11	B531902	<0.50	0.50	B531902			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B530953	<1.0	1.0	B530772			
Alkalinity (Total as CaCO3)	mg/L	28	B530953	<1.0	1.0	B530772			
Bicarbonate (HCO3)	mg/L	35	B530953	<1.0	1.0	B530772			
Carbonate (CO3)	mg/L	<1.0	B530953	<1.0	1.0	B530772			
Hydroxide (OH)	mg/L	<1.0	B530953	<1.0	1.0	B530772			
Sulphate (SO4)	mg/L	29	B530961	<1.0	1.0	B530959			
Physical Properties									
Turbidity	NTU	2.4	B530450	<0.10	0.10	B528640	<0.10	0.10	B528640

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	0.3°C
Package 2	0.7°C
Package 3	3.6°C
Package 4	6.1°C

REG. METALS (CCME/AT1) – DISS. LAB FILT. Comments

Sample CVV478 [NB-1] Elements by ICP-Dissolved-Lab Filtered: Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Sample CVV473, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CVV482, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CVV485, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CVV497, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B528193	Turbidity	2024/09/19			101	80 - 120	<0.10	NTU	NC	20
B528640	Turbidity	2024/09/19			101	80 - 120	<0.10	NTU	NC	20
B529207	Total Suspended Solids	2024/09/20	107	80 - 120	96	80 - 120	<0.99	mg/L	NC	20
B529927	Dissolved Barium (Ba)	2024/09/20	96	80 - 120	102	80 - 120	<0.010	mg/L		
B529927	Dissolved Boron (B)	2024/09/20	93	80 - 120	99	80 - 120	<0.020	mg/L		
B529927	Dissolved Calcium (Ca)	2024/09/23	118	80 - 120	110	80 - 120	<0.30	mg/L	9.9	20
B529927	Dissolved Iron (Fe)	2024/09/23	89	80 - 120	92	80 - 120	<0.060	mg/L	NC	20
B529927	Dissolved Lithium (Li)	2024/09/20	111	80 - 120	105	80 - 120	<0.020	mg/L		
B529927	Dissolved Magnesium (Mg)	2024/09/23	98	80 - 120	102	80 - 120	<0.20	mg/L	0.23	20
B529927	Dissolved Manganese (Mn)	2024/09/23	87	80 - 120	106	80 - 120	<0.0040	mg/L	2.6	20
B529927	Dissolved Phosphorus (P)	2024/09/20	100	80 - 120	97	80 - 120	<0.10	mg/L		
B529927	Dissolved Potassium (K)	2024/09/23	116	80 - 120	110	80 - 120	<0.30	mg/L	9.5	20
B529927	Dissolved Silicon (Si)	2024/09/20	92	80 - 120	95	80 - 120	<0.50	mg/L		
B529927	Dissolved Sodium (Na)	2024/09/23	NC	80 - 120	108	80 - 120	<0.50	mg/L	4.6	20
B529927	Dissolved Strontium (Sr)	2024/09/20	93	80 - 120	101	80 - 120	<0.020	mg/L		
B529927	Dissolved Sulphur (S)	2024/09/20	NC	80 - 120	96	80 - 120	<0.20	mg/L		
B530037	Dissolved Aluminum (Al)	2024/09/20	82	80 - 120	104	80 - 120	<0.0030	mg/L	17	20
B530037	Dissolved Antimony (Sb)	2024/09/20	91	80 - 120	100	80 - 120	<0.00060	mg/L	NC	20
B530037	Dissolved Arsenic (As)	2024/09/20	91	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B530037	Dissolved Beryllium (Be)	2024/09/20	88	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B530037	Dissolved Chromium (Cr)	2024/09/20	84	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B530037	Dissolved Cobalt (Co)	2024/09/20	84	80 - 120	95	80 - 120	<0.00030	mg/L	NC	20
B530037	Dissolved Copper (Cu)	2024/09/20	84	80 - 120	96	80 - 120	<0.0010	mg/L	2.1	20
B530037	Dissolved Lead (Pb)	2024/09/20	86	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B530037	Dissolved Molybdenum (Mo)	2024/09/20	96	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B530037	Dissolved Nickel (Ni)	2024/09/20	85	80 - 120	97	80 - 120	<0.00050	mg/L	17	20
B530037	Dissolved Selenium (Se)	2024/09/20	89	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B530037	Dissolved Silver (Ag)	2024/09/20	89	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B530037	Dissolved Thallium (Tl)	2024/09/20	86	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B530037	Dissolved Tin (Sn)	2024/09/20	95	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
B530037	Dissolved Titanium (Ti)	2024/09/20	93	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B530037	Dissolved Uranium (U)	2024/09/20	86	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B530037	Dissolved Vanadium (V)	2024/09/20	85	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B530037	Dissolved Zinc (Zn)	2024/09/20	NC	80 - 120	95	80 - 120	<0.0030	mg/L	1.6	20
B530450	Turbidity	2024/09/20			101	80 - 120	<0.10	NTU	15	20
B530741	Dissolved Aluminum (Al)	2024/09/20	116	80 - 120	98	80 - 120	<0.0030	mg/L	3.1	20
B530741	Dissolved Antimony (Sb)	2024/09/20	99	80 - 120	105	80 - 120	<0.00060	mg/L	15	20
B530741	Dissolved Arsenic (As)	2024/09/20	99	80 - 120	105	80 - 120	<0.00020	mg/L	14	20
B530741	Dissolved Beryllium (Be)	2024/09/20	112	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B530741	Dissolved Chromium (Cr)	2024/09/20	110	80 - 120	94	80 - 120	<0.0010	mg/L	7.9	20
B530741	Dissolved Cobalt (Co)	2024/09/20	NC	80 - 120	94	80 - 120	<0.00030	mg/L	3.8	20
B530741	Dissolved Copper (Cu)	2024/09/20	107	80 - 120	95	80 - 120	<0.0010	mg/L	5.3	20
B530741	Dissolved Lead (Pb)	2024/09/20	108	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B530741	Dissolved Molybdenum (Mo)	2024/09/20	NC	80 - 120	101	80 - 120	<0.00020	mg/L	2.0	20
B530741	Dissolved Nickel (Ni)	2024/09/20	NC	80 - 120	93	80 - 120	<0.00050	mg/L	1.7	20
B530741	Dissolved Selenium (Se)	2024/09/20	101	80 - 120	105	80 - 120	<0.00020	mg/L	15	20
B530741	Dissolved Silver (Ag)	2024/09/20	111	80 - 120	96	80 - 120	<0.00010	mg/L	NC	20
B530741	Dissolved Thallium (Tl)	2024/09/20	109	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B530741	Dissolved Tin (Sn)	2024/09/20	103	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B530741	Dissolved Titanium (Ti)	2024/09/20	117	80 - 120	93	80 - 120	<0.0010	mg/L	6.3	20
B530741	Dissolved Uranium (U)	2024/09/20	113	80 - 120	96	80 - 120	<0.00010	mg/L	NC	20
B530741	Dissolved Vanadium (V)	2024/09/20	NC	80 - 120	96	80 - 120	<0.0010	mg/L	2.8	20
B530741	Dissolved Zinc (Zn)	2024/09/20	116	80 - 120	106	80 - 120	<0.0030	mg/L	14	20
B530772	Alkalinity (PP as CaCO3)	2024/09/20					<1.0	mg/L	NC	20
B530772	Alkalinity (Total as CaCO3)	2024/09/20			98	80 - 120	<1.0	mg/L	0.93	20
B530772	Bicarbonate (HCO3)	2024/09/20					<1.0	mg/L	0.93	20
B530772	Carbonate (CO3)	2024/09/20					<1.0	mg/L	NC	20
B530772	Hydroxide (OH)	2024/09/20					<1.0	mg/L	NC	20
B530799	Sulphate (SO4)	2024/09/20	NC	80 - 120	100	80 - 120	<1.0	mg/L	1.3	20
B530808	pH	2024/09/20			100	97 - 103			0.97	N/A
B530861	Sulphate (SO4)	2024/09/21	NC	80 - 120	100	80 - 120	<1.0	mg/L	0.41	20
B530953	Alkalinity (PP as CaCO3)	2024/09/22					<1.0	mg/L	NC	20
B530953	Alkalinity (Total as CaCO3)	2024/09/22			98	80 - 120	<1.0	mg/L	0.28	20
B530953	Bicarbonate (HCO3)	2024/09/22					<1.0	mg/L	0.28	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B530953	Carbonate (CO3)	2024/09/22					<1.0	mg/L	NC	20
B530953	Hydroxide (OH)	2024/09/22					<1.0	mg/L	NC	20
B530955	pH	2024/09/22			100	97 - 103			0.37	N/A
B530959	Sulphate (SO4)	2024/09/21	103	80 - 120	99	80 - 120	<1.0	mg/L	1.3	20
B530961	Sulphate (SO4)	2024/09/21	NC	80 - 120	100	80 - 120	<1.0	mg/L	2.2	20
B531441	Dissolved Barium (Ba)	2024/09/21	NC	80 - 120	101	80 - 120	<0.010	mg/L		
B531441	Dissolved Boron (B)	2024/09/21	78 (1)	80 - 120	102	80 - 120	<0.020	mg/L		
B531441	Dissolved Calcium (Ca)	2024/09/21	NC	80 - 120	96	80 - 120	<0.30	mg/L	9.4	20
B531441	Dissolved Iron (Fe)	2024/09/21	NC	80 - 120	105	80 - 120	<0.060	mg/L	NC	20
B531441	Dissolved Lithium (Li)	2024/09/21	NC	80 - 120	98	80 - 120	<0.020	mg/L		
B531441	Dissolved Magnesium (Mg)	2024/09/21	NC	80 - 120	97	80 - 120	<0.20	mg/L	10	20
B531441	Dissolved Manganese (Mn)	2024/09/21	NC	80 - 120	102	80 - 120	<0.0040	mg/L	11	20
B531441	Dissolved Phosphorus (P)	2024/09/21	102	80 - 120	101	80 - 120	<0.10	mg/L		
B531441	Dissolved Potassium (K)	2024/09/21	NC	80 - 120	96	80 - 120	<0.30	mg/L	0.66	20
B531441	Dissolved Silicon (Si)	2024/09/21	105	80 - 120	96	80 - 120	<0.50	mg/L		
B531441	Dissolved Sodium (Na)	2024/09/21	NC	80 - 120	95	80 - 120	<0.50	mg/L	10	20
B531441	Dissolved Strontium (Sr)	2024/09/21	NC	80 - 120	98	80 - 120	<0.020	mg/L		
B531441	Dissolved Sulphur (S)	2024/09/21	NC	80 - 120	96	80 - 120	<0.20	mg/L		
B531798	Total Suspended Solids	2024/09/22	94	80 - 120	88	80 - 120	<1.0	mg/L	NC	20
B531901	Dissolved Organic Carbon (C)	2024/09/22	NC	75 - 125	109	80 - 120	<0.50	mg/L	0.18	20
B531902	Dissolved Organic Carbon (C)	2024/09/22	NC	75 - 125	101	80 - 120	<0.50	mg/L	3.4	20
B532038	Dissolved Organic Carbon (C)	2024/09/22	NC	75 - 125	102	80 - 120	<0.50	mg/L	11	20
B532156	Total Suspended Solids	2024/09/23	104	80 - 120	101	80 - 120	<1.0	mg/L	7.1	20
B532168	Total Suspended Solids	2024/09/23	102	80 - 120	100	80 - 120	<1.0	mg/L	NC	20
B532349	Dissolved Barium (Ba)	2024/09/24	97	80 - 120	98	80 - 120	<0.010	mg/L		
B532349	Dissolved Boron (B)	2024/09/24	100	80 - 120	100	80 - 120	<0.020	mg/L		
B532349	Dissolved Calcium (Ca)	2024/09/24	98	80 - 120	99	80 - 120	<0.30	mg/L	0.21	20
B532349	Dissolved Iron (Fe)	2024/09/24	75 (1)	80 - 120	103	80 - 120	<0.060	mg/L	3.2	20
B532349	Dissolved Lithium (Li)	2024/09/24	96	80 - 120	97	80 - 120	<0.020	mg/L		
B532349	Dissolved Magnesium (Mg)	2024/09/24	101	80 - 120	102	80 - 120	<0.20	mg/L	0.86	20
B532349	Dissolved Manganese (Mn)	2024/09/24	98	80 - 120	100	80 - 120	<0.0040	mg/L	1.1	20
B532349	Dissolved Phosphorus (P)	2024/09/24	103	80 - 120	102	80 - 120	<0.10	mg/L		

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B532349	Dissolved Potassium (K)	2024/09/24	99	80 - 120	98	80 - 120	<0.30	mg/L	2.8	20
B532349	Dissolved Silicon (Si)	2024/09/24	96	80 - 120	99	80 - 120	<0.50	mg/L		
B532349	Dissolved Sodium (Na)	2024/09/24	95	80 - 120	98	80 - 120	<0.50	mg/L	0.50	20
B532349	Dissolved Strontium (Sr)	2024/09/24	95	80 - 120	97	80 - 120	<0.020	mg/L		
B532349	Dissolved Sulphur (S)	2024/09/24	102	80 - 120	99	80 - 120	<0.20	mg/L		
B532353	Dissolved Barium (Ba)	2024/09/24	92	80 - 120	97	80 - 120	<0.010	mg/L	6.2	20
B532353	Dissolved Boron (B)	2024/09/24	88	80 - 120	92	80 - 120	<0.020	mg/L	NC	20
B532353	Dissolved Calcium (Ca)	2024/09/24	89	80 - 120	103	80 - 120	<0.30	mg/L	1.9	20
B532353	Dissolved Iron (Fe)	2024/09/24	96	80 - 120	106	80 - 120	<0.060	mg/L	4.9	20
B532353	Dissolved Lithium (Li)	2024/09/24	89	80 - 120	102	80 - 120	<0.020	mg/L	NC	20
B532353	Dissolved Magnesium (Mg)	2024/09/24	97	80 - 120	102	80 - 120	<0.20	mg/L	3.8	20
B532353	Dissolved Manganese (Mn)	2024/09/24	99	80 - 120	104	80 - 120	<0.0040	mg/L	NC	20
B532353	Dissolved Phosphorus (P)	2024/09/24	100	80 - 120	105	80 - 120	<0.10	mg/L	NC	20
B532353	Dissolved Potassium (K)	2024/09/24	92	80 - 120	104	80 - 120	<0.30	mg/L	1.0	20
B532353	Dissolved Silicon (Si)	2024/09/24	98	80 - 120	106	80 - 120	<0.50	mg/L	10	20
B532353	Dissolved Sodium (Na)	2024/09/24	88	80 - 120	101	80 - 120	<0.50	mg/L	3.1	20
B532353	Dissolved Strontium (Sr)	2024/09/24	91	80 - 120	97	80 - 120	<0.020	mg/L	3.7	20
B532353	Dissolved Sulphur (S)	2024/09/24	95	80 - 120	100	80 - 120	<0.20	mg/L	3.9	20
B532683	Dissolved Barium (Ba)	2024/09/25	92	80 - 120	96	80 - 120	<0.010	mg/L		
B532683	Dissolved Boron (B)	2024/09/25	89	80 - 120	92	80 - 120	<0.020	mg/L		
B532683	Dissolved Calcium (Ca)	2024/09/25	97	80 - 120	104	80 - 120	<0.30	mg/L	4.8	20
B532683	Dissolved Iron (Fe)	2024/09/25	101	80 - 120	107	80 - 120	<0.060	mg/L	3.5	20
B532683	Dissolved Lithium (Li)	2024/09/25	98	80 - 120	102	80 - 120	<0.020	mg/L		
B532683	Dissolved Magnesium (Mg)	2024/09/25	95	80 - 120	104	80 - 120	<0.20	mg/L	0.54	20
B532683	Dissolved Manganese (Mn)	2024/09/25	100	80 - 120	105	80 - 120	<0.0040	mg/L	NC	20
B532683	Dissolved Phosphorus (P)	2024/09/25	95	80 - 120	100	80 - 120	<0.10	mg/L		
B532683	Dissolved Potassium (K)	2024/09/25	103	80 - 120	106	80 - 120	<0.30	mg/L	7.4	20
B532683	Dissolved Silicon (Si)	2024/09/25	94	80 - 120	101	80 - 120	<0.50	mg/L		
B532683	Dissolved Sodium (Na)	2024/09/25	97	80 - 120	103	80 - 120	<0.50	mg/L	4.9	20
B532683	Dissolved Strontium (Sr)	2024/09/25	90	80 - 120	95	80 - 120	<0.020	mg/L		
B532683	Dissolved Sulphur (S)	2024/09/25	97	80 - 120	98	80 - 120	<0.20	mg/L		
B532865	Total Organic Carbon (C)	2024/09/23	NC	75 - 125	97	80 - 120	<0.50	mg/L	2.0	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B533021	Total Organic Carbon (C)	2024/09/23	NC	75 - 125	105	80 - 120	<0.50	mg/L	6.0	20
B533579	Dissolved Barium (Ba)	2024/09/24	98	80 - 120	99	80 - 120	<0.010	mg/L	2.1	20
B533579	Dissolved Boron (B)	2024/09/24	101	80 - 120	102	80 - 120	<0.020	mg/L	NC	20
B533579	Dissolved Calcium (Ca)	2024/09/24	96	80 - 120	99	80 - 120	<0.30	mg/L	1.0	20
B533579	Dissolved Iron (Fe)	2024/09/24	103	80 - 120	106	80 - 120	<0.060	mg/L	NC	20
B533579	Dissolved Lithium (Li)	2024/09/24	93	80 - 120	98	80 - 120	<0.020	mg/L	4.2	20
B533579	Dissolved Magnesium (Mg)	2024/09/24	99	80 - 120	101	80 - 120	<0.20	mg/L	0.61	20
B533579	Dissolved Manganese (Mn)	2024/09/24	100	80 - 120	101	80 - 120	<0.0040	mg/L	1.6	20
B533579	Dissolved Phosphorus (P)	2024/09/24	104	80 - 120	106	80 - 120	<0.10	mg/L	NC	20
B533579	Dissolved Potassium (K)	2024/09/24	97	80 - 120	98	80 - 120	<0.30	mg/L	2.5	20
B533579	Dissolved Silicon (Si)	2024/09/24	99	80 - 120	102	80 - 120	<0.50	mg/L	1.5	20
B533579	Dissolved Sodium (Na)	2024/09/24	96	80 - 120	99	80 - 120	<0.50	mg/L	0.91	20
B533579	Dissolved Strontium (Sr)	2024/09/24	95	80 - 120	98	80 - 120	<0.020	mg/L	0.57	20
B533579	Dissolved Sulphur (S)	2024/09/24	91	80 - 120	102	80 - 120	<0.20	mg/L	0.72	20
B534690	Total Aluminum (Al)	2024/09/24	104	80 - 120	95	80 - 120	<0.0030	mg/L	12	20
B534690	Total Antimony (Sb)	2024/09/24	109	80 - 120	104	80 - 120	<0.00060	mg/L	NC	20
B534690	Total Arsenic (As)	2024/09/24	108	80 - 120	104	80 - 120	<0.00020	mg/L	19	20
B534690	Total Beryllium (Be)	2024/09/24	105	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B534690	Total Chromium (Cr)	2024/09/24	102	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B534690	Total Cobalt (Co)	2024/09/24	102	80 - 120	98	80 - 120	<0.00030	mg/L	NC	20
B534690	Total Copper (Cu)	2024/09/24	102	80 - 120	99	80 - 120	<0.0010	mg/L	6.6	20
B534690	Total Lead (Pb)	2024/09/24	102	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B534690	Total Molybdenum (Mo)	2024/09/24	110	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B534690	Total Nickel (Ni)	2024/09/24	102	80 - 120	98	80 - 120	<0.00050	mg/L	NC	20
B534690	Total Selenium (Se)	2024/09/24	108	80 - 120	104	80 - 120	<0.00020	mg/L	16	20
B534690	Total Silver (Ag)	2024/09/24	107	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B534690	Total Thallium (Tl)	2024/09/24	101	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B534690	Total Tin (Sn)	2024/09/24	112	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B534690	Total Titanium (Ti)	2024/09/24	105	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B534690	Total Uranium (U)	2024/09/24	104	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20
B534690	Total Vanadium (V)	2024/09/24	105	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B534690	Total Zinc (Zn)	2024/09/24	106	80 - 120	101	80 - 120	<0.0030	mg/L	11	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B534736	Total Barium (Ba)	2024/09/24	98	80 - 120	99	80 - 120	<0.010	mg/L	NC	20
B534736	Total Boron (B)	2024/09/24	99	80 - 120	99	80 - 120	<0.020	mg/L	NC	20
B534736	Total Calcium (Ca)	2024/09/24	100	80 - 120	99	80 - 120	<0.30	mg/L	1.4	20
B534736	Total Iron (Fe)	2024/09/24	NC	80 - 120	102	80 - 120	<0.060	mg/L	1.1	20
B534736	Total Lithium (Li)	2024/09/24	97	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B534736	Total Magnesium (Mg)	2024/09/24	99	80 - 120	99	80 - 120	<0.20	mg/L	1.5	20
B534736	Total Manganese (Mn)	2024/09/24	98	80 - 120	97	80 - 120	<0.0040	mg/L	0.75	20
B534736	Total Phosphorus (P)	2024/09/24	98	80 - 120	98	80 - 120	<0.10	mg/L	NC	20
B534736	Total Potassium (K)	2024/09/24	99	80 - 120	99	80 - 120	<0.30	mg/L	2.5	20
B534736	Total Silicon (Si)	2024/09/24	97	80 - 120	98	80 - 120	<0.50	mg/L	3.8	20
B534736	Total Sodium (Na)	2024/09/24	99	80 - 120	99	80 - 120	<0.50	mg/L	1.8	20
B534736	Total Strontium (Sr)	2024/09/24	95	80 - 120	95	80 - 120	<0.020	mg/L	1.4	20
B534736	Total Sulphur (S)	2024/09/24	98	80 - 120	96	80 - 120	<0.20	mg/L	1.4	20
B535762	Total Aluminum (Al)	2024/09/25	93	80 - 120	95	80 - 120	<0.0030	mg/L	7.9	20
B535762	Total Antimony (Sb)	2024/09/25	95	80 - 120	90	80 - 120	<0.00060	mg/L	NC	20
B535762	Total Arsenic (As)	2024/09/25	99	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B535762	Total Beryllium (Be)	2024/09/25	92	80 - 120	89	80 - 120	<0.0010	mg/L	NC	20
B535762	Total Chromium (Cr)	2024/09/25	101	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B535762	Total Cobalt (Co)	2024/09/25	100	80 - 120	97	80 - 120	<0.00030	mg/L	NC	20
B535762	Total Copper (Cu)	2024/09/25	99	80 - 120	96	80 - 120	<0.0010	mg/L	19	20
B535762	Total Lead (Pb)	2024/09/25	99	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B535762	Total Molybdenum (Mo)	2024/09/25	98	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B535762	Total Nickel (Ni)	2024/09/25	99	80 - 120	96	80 - 120	<0.00050	mg/L	3.7	20
B535762	Total Selenium (Se)	2024/09/25	97	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B535762	Total Silver (Ag)	2024/09/25	96	80 - 120	94	80 - 120	<0.00010	mg/L	NC	20
B535762	Total Thallium (Tl)	2024/09/25	96	80 - 120	92	80 - 120	<0.00020	mg/L	NC	20
B535762	Total Tin (Sn)	2024/09/25	95	80 - 120	92	80 - 120	<0.0010	mg/L	NC	20
B535762	Total Titanium (Ti)	2024/09/25	97	80 - 120	95	80 - 120	<0.0010	mg/L	17	20
B535762	Total Uranium (U)	2024/09/25	103	80 - 120	99	80 - 120	<0.00010	mg/L	NC	20
B535762	Total Vanadium (V)	2024/09/25	101	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B535762	Total Zinc (Zn)	2024/09/25	76 (1)	80 - 120	91	80 - 120	<0.0030	mg/L	9.0	20
B535770	Total Barium (Ba)	2024/09/25	100	80 - 120	96	80 - 120	<0.010	mg/L	1.1	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B535770	Total Boron (B)	2024/09/25	93	80 - 120	93	80 - 120	<0.020	mg/L	NC	20
B535770	Total Calcium (Ca)	2024/09/25	NC	80 - 120	113	80 - 120	<0.30	mg/L	1.4	20
B535770	Total Iron (Fe)	2024/09/25	NC	80 - 120	111	80 - 120	<0.060	mg/L	3.1	20
B535770	Total Lithium (Li)	2024/09/25	104	80 - 120	110	80 - 120	<0.020	mg/L	NC	20
B535770	Total Magnesium (Mg)	2024/09/25	105	80 - 120	100	80 - 120	<0.20	mg/L	1.8	20
B535770	Total Manganese (Mn)	2024/09/25	112	80 - 120	106	80 - 120	<0.0040	mg/L	3.1	20
B535770	Total Phosphorus (P)	2024/09/25	98	80 - 120	96	80 - 120	<0.10	mg/L	NC	20
B535770	Total Potassium (K)	2024/09/25	109	80 - 120	116	80 - 120	<0.30	mg/L	3.5	20
B535770	Total Silicon (Si)	2024/09/25	107	80 - 120	101	80 - 120	<0.50	mg/L	3.7	20
B535770	Total Sodium (Na)	2024/09/25	106	80 - 120	97	80 - 120	<0.50	mg/L	1.8	20
B535770	Total Strontium (Sr)	2024/09/25	99	80 - 120	95	80 - 120	<0.020	mg/L	1.2	20
B535770	Total Sulphur (S)	2024/09/25	100	80 - 120	98	80 - 120	<0.20	mg/L	1.2	20
B536757	Dissolved Molybdenum (Mo)	2024/09/25	99	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

C474261
2024/09/18 11:30

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins, Rachel Dyck	P.O. #			735701
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#735701-01-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By	AR/JIK		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT (X)

(will be applied if Rush TAT is not specified)

Standard TAT = 5-7 Working days for most tests.

Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)

Date Required: _____ Time Required: _____

Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		SC-1	24/09/17	10:30	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		SB-1		9:30				X	X	X	X	X	X	X	X	X	X		
3		SB-2		9:25				X	X	X	X	X	X	X	X	X	X		
4		CB-1		9:35				X	X	X	X	X	X	X	X	X	X		
5		CB-2		9:38				X	X	X	X	X	X	X	X	X	X		
6		EB-1		9:44				X	X	X	X	X	X	X	X	X	X		
7		EB-2		9:47				X	X	X	X	X	X	X	X	X	X		
8		NB-1		10:00				X	X	X	X	X	X	X	X	X	X		
9		NB-2		9:55				X	X	X	X	X	X	X	X	X	X		
10		CLD		10:08				X	X	X	X	X	X	X	X	X	X		

MCAL-2024-09-1629

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Joel Kroeker JK	24/09/18	11:15	Kazi Sultana KS SEAN ENV	2024-09-18 (24/09/19)	11:30 09:00		☐	ACTR	☐ Yes ☐ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

3.7, 3.9, 3.6 CS-YTE-4
2.7, 2.6, 2.9
1.9, 4.1, 4.6

C474261
2024/09/18 11:30

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins, Rachel Dyck	P.O. #			735701
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#735701-02-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By	AR/JIV		

Regulatory Criteria: MWQSO6

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) - Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-3 SFC	24/09/17	8:38	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		CL-3 BTM		8:40				X	X	X	X	X	X	X	X	X	X		
3		CL-7 SFC		8:47				X	X	X	X	X	X	X	X	X	X		
4		CL-7 BTM		8:50				X	X	X	X	X	X	X	X	X	X		
5		CL-8 SFC		8:34				X	X	X	X	X	X	X	X	X	X		
6		CL-8 BTM		8:37				X	X	X	X	X	X	X	X	X	X		
7		CL-2 SFC		8:56				X	X	X	X	X	X	X	X	X	X		
8		CL-2 BTM		9:00				X	X	X	X	X	X	X	X	X	X		
9		CL-4 SFC		8:27				X	X	X	X	X	X	X	X	X	X		
10		CL-4 BTM		8:30				X	X	X	X	X	X	X	X	X	X		

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT (X)

(will be applied if Rush TAT is not specified)

Standard TAT = 5-7 Working days for most tests.

Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)

Date Required: _____ Time Required: _____

Rush Confirmation Number _____ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Joel Kreaver GJK	24/09/18	11:15	~~2024-09-18~~ Kazi Sultana AM	2024-09-18	1130			ACTR	Yes / No
			SEAN RMZ	2024/09/19	09:00				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

C474261
2024/09/18 11:30

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins, Rachel Dyck	P.O. #			735701
Address	865 Waverly St., 3rd Floor Winnipeg MB R3T 5P4	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
Phone	(204) 896-1209 Fax:	Phone	Fax:	Project Name		C#735701-03-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com rdyck@kgsgroup.com	Site #	OAM - SHERRIDON MINE SITE		
				Sampled By	AR/JJK		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT (X)
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-5 SFC	24/09/17	8:15	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		CL-5 BTM		8:20				X	X	X	X	X	X	X	X	X	X		
3		CL-6 SFC		8:10				X	X	X	X	X	X	X	X	X	X		
4		CL-6 BTM		8:05				X	X	X	X	X	X	X	X	X	X		
5		SW-128		AM				X	X	X	X	X	X	X	X	X	X		
6		SW-129		AM				X	X	X	X	X	X	X	X	X	X		
7		SW-130		AM				X	X	X	X	X	X	X	X	X	X		
8		Trip Blank	–	–	blank			X	X	X	X	X	X	X	X	X	X		
9																			
10																			

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Jodi Kroeker QJK	24/09/18	11:15	Kazi Sultana SBAN	2024-09-18	1130			ACTR	Yes / No
				2024/09/19	09:00				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

WINNIPEG ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 3	CH735701-01-01
Page 2 of 3	↓ 02-01
Page 3 of 3	↓ 03-01
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	

RECEIPT OBSERVATIONS:

	YES	NO				
CUSTODY SEAL			COOLER ID	1		
PRESENT		✓	TEMP	0.3 (1)	0.1 (2)	0.5 (3)
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID	2		
PRESENT		✓	TEMP	0.6 (1)	0.7 (2)	0.8 (3)
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID	3		
PRESENT		✓	TEMP	3.5 (1)	2.2 (2)	5.1 (3)
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID	4		
PRESENT		✓	TEMP	5.6 (1)	5.8 (2)	6.9 (3)
INTACT		✓				
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID	5		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	6		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	7		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	8		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	9		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	10		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

BUREAU VERITAS JOB#

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
Kazi Sultana	2024-09-18	1130

C474261
2024/09/18 11:30

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: 737508-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/10/11
Report #: R3570963
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C480213
Received: 2024/10/04, 14:50

Sample Matrix: Water
Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	5	N/A	2024/10/08	AB SOP-00005	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	1	N/A	2024/10/09	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	6	N/A	2024/10/10		Auto Calc
Cadmium - low level CCME (Total) (1)	6	N/A	2024/10/11		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	6	N/A	2024/10/08	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	6	N/A	2024/10/09	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	1	N/A	2024/10/10		Auto Calc
Hardness (1)	5	N/A	2024/10/09		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	3	N/A	2024/10/10	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	3	N/A	2024/10/11	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	6	N/A	2024/10/09	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	6	2024/10/09	2024/10/10	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	6	N/A	2024/10/09	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	3	2024/10/09	2024/10/10	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	3	2024/10/09	2024/10/11	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	5	N/A	2024/10/08	AB SOP-00005	SM 24 4500-H+B m
pH @25°C (1, 6)	1	N/A	2024/10/09	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	6	N/A	2024/10/09	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	2	2024/10/08	2024/10/08	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	4	2024/10/09	2024/10/09	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	6	N/A	2024/10/08	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: 737508-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/10/11
Report #: R3570963
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C480213
Received: 2024/10/04, 14:50

Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(7) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG458	CXG459		CXG460		CXG461		
Sampling Date		2024/10/02 15:55	2024/10/02 15:50		2024/10/02 15:45		2024/10/02 15:55		
COC Number		737508-01-01	737508-01-01		737508-01-01		737508-01-01		
	UNITS	SC-2	SC-3	QC Batch	SC-4	QC Batch	SC-5	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.97	1.8	B554570	0.028	B554570	<0.020	0.020	B554570
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.026	0.028	B556626	0.012	B556626	0.012	0.0030	B556626
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B556626	<0.00060	B556626	<0.00060	0.00060	B556626
Dissolved Arsenic (As)	mg/L	0.00046	0.00038	B556626	0.00041	B556626	0.00054	0.00020	B556626
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	B557580	<0.010	B557916	<0.010	0.010	B557580
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B556626	<0.0010	B556626	<0.0010	0.0010	B556626
Dissolved Boron (B)	mg/L	<0.020	<0.020	B557580	<0.020	B557916	<0.020	0.020	B557580
Dissolved Calcium (Ca)	mg/L	11	12	B557580	8.9	B557916	9.0	0.30	B557580
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B556626	<0.0010	B556626	<0.0010	0.0010	B556626
Dissolved Cobalt (Co)	mg/L	0.00031	0.00060	B556626	<0.00030	B556626	<0.00030	0.00030	B556626
Dissolved Copper (Cu)	mg/L	0.031	0.059	B556626	0.0031	B556626	0.0027	0.0010	B556626
Dissolved Iron (Fe)	mg/L	0.18	0.15	B557580	0.14	B557916	0.11	0.060	B557580
Dissolved Lead (Pb)	mg/L	0.00060	<0.00020	B556626	<0.00020	B556626	<0.00020	0.00020	B556626
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B557580	<0.020	B557916	<0.020	0.020	B557580
Dissolved Magnesium (Mg)	mg/L	3.4	3.9	B557580	2.9	B557916	3.0	0.20	B557580
Dissolved Manganese (Mn)	mg/L	0.036	0.052	B557580	<0.0040	B557916	<0.0040	0.0040	B557580
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B556626	<0.00020	B556626	<0.00020	0.00020	B556626
Dissolved Nickel (Ni)	mg/L	0.00068	0.00059	B556626	<0.00050	B556626	<0.00050	0.00050	B556626
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B557580	<0.10	B557916	<0.10	0.10	B557580
Dissolved Potassium (K)	mg/L	1.9	2.0	B557580	1.5	B557916	1.4	0.30	B557580
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B556626	<0.00020	B556626	<0.00020	0.00020	B556626
Dissolved Silicon (Si)	mg/L	1.2	1.4	B557580	1.2	B557916	1.2	0.50	B557580
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B556626	<0.00010	B556626	<0.00010	0.00010	B556626
Dissolved Sodium (Na)	mg/L	3.5	3.6	B557580	2.3	B557916	1.8	0.50	B557580
Dissolved Strontium (Sr)	mg/L	0.026	0.029	B557580	0.023	B557916	0.023	0.020	B557580
Dissolved Sulphur (S)	mg/L	3.8	6.1	B557580	1.4	B557916	1.3	0.20	B557580
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B556626	<0.00020	B556626	<0.00020	0.00020	B556626
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B556626	<0.0010	B556626	<0.0010	0.0010	B556626
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B556626	<0.0010	B556626	<0.0010	0.0010	B556626
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B556626	<0.00010	B556626	<0.00010	0.00010	B556626
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B556626	<0.0010	B556626	<0.0010	0.0010	B556626
Dissolved Zinc (Zn)	mg/L	0.40	0.68	B556626	0.012	B556626	0.0034	0.0030	B556626

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG462	CXG463		
Sampling Date		2024/10/02 16:10	2024/10/02 12:00		
COC Number		737508-01-01	737508-01-01		
	UNITS	SC-6	SW-133	RDL	QC Batch
Elements					
Dissolved Cadmium (Cd)	ug/L	<0.020	<0.020	0.020	B554570
Lab Filtered Elements					
Dissolved Aluminum (Al)	mg/L	0.0084	0.014	0.0030	B556626
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B556626
Dissolved Arsenic (As)	mg/L	0.00051	0.00043	0.00020	B556626
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	0.010	B557580
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B556626
Dissolved Boron (B)	mg/L	<0.020	<0.020	0.020	B557580
Dissolved Calcium (Ca)	mg/L	8.8	9.0	0.30	B557580
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B556626
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	0.00030	B556626
Dissolved Copper (Cu)	mg/L	0.0013	0.0027	0.0010	B556626
Dissolved Iron (Fe)	mg/L	0.095	0.11	0.060	B557580
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	0.00020	B556626
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	0.020	B557580
Dissolved Magnesium (Mg)	mg/L	3.0	3.0	0.20	B557580
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	0.0040	B557580
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	0.00020	B556626
Dissolved Nickel (Ni)	mg/L	<0.00050	<0.00050	0.00050	B556626
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B557580
Dissolved Potassium (K)	mg/L	1.3	1.4	0.30	B557580
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B556626
Dissolved Silicon (Si)	mg/L	1.2	1.2	0.50	B557580
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B556626
Dissolved Sodium (Na)	mg/L	1.8	1.8	0.50	B557580
Dissolved Strontium (Sr)	mg/L	0.023	0.023	0.020	B557580
Dissolved Sulphur (S)	mg/L	1.2	1.4	0.20	B557580
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B556626
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B556626
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	0.0010	B556626
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	B556626
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B556626
Dissolved Zinc (Zn)	mg/L	<0.0030	0.0035	0.0030	B556626
RDL = Reportable Detection Limit					

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG458			CXG459		CXG460		
Sampling Date		2024/10/02 15:55			2024/10/02 15:50		2024/10/02 15:45		
COC Number		737508-01-01			737508-01-01		737508-01-01		
	UNITS	SC-2	RDL	QC Batch	SC-3	QC Batch	SC-4	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	1.3	0.020	B554482	2.0	B554482	0.033	0.020	B554802
Total Aluminum (Al)	mg/L	0.073	0.0030	B558364	0.069	B558345	0.050	0.0030	B558345
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B558364	<0.00060	B558345	<0.00060	0.00060	B558345
Total Arsenic (As)	mg/L	0.00050	0.00020	B558364	0.00050	B558345	0.00050	0.00020	B558345
Total Barium (Ba)	mg/L	<0.010	0.010	B558354	<0.010	B558338	<0.010	0.010	B558338
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B558364	<0.0010	B558345	<0.0010	0.0010	B558345
Total Boron (B)	mg/L	<0.020	0.020	B558354	<0.020	B558338	<0.020	0.020	B558338
Total Calcium (Ca)	mg/L	9.1	0.30	B558354	11	B558338	8.3	0.30	B558338
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B558364	<0.0010	B558345	<0.0010	0.0010	B558345
Total Cobalt (Co)	mg/L	0.00047	0.00030	B558364	0.00070	B558345	<0.00030	0.00030	B558345
Total Copper (Cu)	mg/L	0.044	0.0010	B558364	0.068	B558345	0.0056	0.0010	B558345
Total Iron (Fe)	mg/L	0.25	0.080	B558354	0.24	B558338	0.22	0.060	B558338
Total Lead (Pb)	mg/L	<0.00020	0.00020	B558364	<0.00020	B558345	<0.00020	0.00020	B558345
Total Lithium (Li)	mg/L	<0.020	0.020	B558354	<0.020	B558338	<0.020	0.020	B558338
Total Magnesium (Mg)	mg/L	2.9	0.20	B558354	3.4	B558338	2.6	0.20	B558338
Total Manganese (Mn)	mg/L	0.043	0.0040	B558354	0.054	B558338	0.022	0.0040	B558338
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B558364	<0.00020	B558345	<0.00020	0.00020	B558345
Total Nickel (Ni)	mg/L	0.00096	0.00050	B558364	0.0010	B558345	0.00083	0.00050	B558345
Total Phosphorus (P)	mg/L	<0.10	0.10	B558354	<0.10	B558338	<0.10	0.10	B558338
Total Potassium (K)	mg/L	1.6	0.30	B558354	1.9	B558338	1.5	0.30	B558338
Total Selenium (Se)	mg/L	<0.00020	0.00020	B558364	<0.00020	B558345	<0.00020	0.00020	B558345
Total Silicon (Si)	mg/L	1.3	0.50	B558354	1.5	B558338	1.2	0.50	B558338
Total Silver (Ag)	mg/L	<0.00010	0.00010	B558364	<0.00010	B558345	<0.00010	0.00010	B558345
Total Sodium (Na)	mg/L	2.9	0.50	B558354	3.4	B558338	2.1	0.50	B558338
Total Strontium (Sr)	mg/L	0.022	0.020	B558354	0.027	B558338	0.022	0.020	B558338
Total Sulphur (S)	mg/L	3.3	0.20	B558354	5.5	B558338	1.3	0.20	B558338
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B558364	<0.00020	B558345	<0.00020	0.00020	B558345
Total Tin (Sn)	mg/L	<0.0010	0.0010	B558364	<0.0010	B558345	<0.0010	0.0010	B558345
Total Titanium (Ti)	mg/L	0.0027	0.0010	B558364	0.0022	B558345	0.0023	0.0010	B558345
Total Uranium (U)	mg/L	<0.00010	0.00010	B558364	<0.00010	B558345	<0.00010	0.00010	B558345
Total Vanadium (V)	mg/L	<0.0010	0.0010	B558364	<0.0010	B558345	<0.0010	0.0010	B558345
Total Zinc (Zn)	mg/L	0.49	0.0030	B558364	0.70	B558345	0.016	0.0030	B558345

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG460			CXG461			CXG462		
Sampling Date		2024/10/02 15:45			2024/10/02 15:55			2024/10/02 16:10		
COC Number		737508-01-01			737508-01-01			737508-01-01		
	UNITS	SC-4 Lab-Dup	RDL	QC Batch	SC-5	RDL	QC Batch	SC-6	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L				<0.020	0.020	B554802	<0.020	0.020	B554802
Total Aluminum (Al)	mg/L	0.049	0.0030	B558345	0.054	0.0030	B558364	0.035	0.0030	B558345
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B558345	<0.00060	0.00060	B558364	<0.00060	0.00060	B558345
Total Arsenic (As)	mg/L	0.00043	0.00020	B558345	0.00067	0.00020	B558364	0.00047	0.00020	B558345
Total Barium (Ba)	mg/L	<0.010	0.010	B558338	<0.010	0.010	B558354	<0.010	0.010	B558338
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345
Total Boron (B)	mg/L	<0.020	0.020	B558338	0.020	0.020	B558354	<0.020	0.020	B558338
Total Calcium (Ca)	mg/L	8.1	0.30	B558338	7.7	0.30	B558354	8.0	0.30	B558338
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B558345	<0.00030	0.00030	B558364	<0.00030	0.00030	B558345
Total Copper (Cu)	mg/L	0.0056	0.0010	B558345	0.0054	0.0010	B558364	0.0027	0.0010	B558345
Total Iron (Fe)	mg/L	0.22	0.060	B558338	0.23	0.080	B558354	0.17	0.060	B558338
Total Lead (Pb)	mg/L	0.00032	0.00020	B558345	0.00035	0.00020	B558364	<0.00020	0.00020	B558345
Total Lithium (Li)	mg/L	<0.020	0.020	B558338	<0.020	0.020	B558354	<0.020	0.020	B558338
Total Magnesium (Mg)	mg/L	2.6	0.20	B558338	2.6	0.20	B558354	2.5	0.20	B558338
Total Manganese (Mn)	mg/L	0.021	0.0040	B558338	0.019	0.0040	B558354	0.019	0.0040	B558338
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B558345	0.00022	0.00020	B558364	<0.00020	0.00020	B558345
Total Nickel (Ni)	mg/L	0.00063	0.00050	B558345	0.00096	0.00050	B558364	0.00063	0.00050	B558345
Total Phosphorus (P)	mg/L	<0.10	0.10	B558338	<0.10	0.10	B558354	<0.10	0.10	B558338
Total Potassium (K)	mg/L	1.4	0.30	B558338	1.3	0.30	B558354	1.2	0.30	B558338
Total Selenium (Se)	mg/L	<0.00020	0.00020	B558345	<0.00020	0.00020	B558364	<0.00020	0.00020	B558345
Total Silicon (Si)	mg/L	1.2	0.50	B558338	1.4	0.50	B558354	1.2	0.50	B558338
Total Silver (Ag)	mg/L	<0.00010	0.00010	B558345	<0.00010	0.00010	B558364	<0.00010	0.00010	B558345
Total Sodium (Na)	mg/L	2.1	0.50	B558338	1.6	0.50	B558354	1.6	0.50	B558338
Total Strontium (Sr)	mg/L	0.021	0.020	B558338	<0.020	0.020	B558354	0.021	0.020	B558338
Total Sulphur (S)	mg/L	1.3	0.20	B558338	1.2	0.20	B558354	1.1	0.20	B558338
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B558345	<0.00020	0.00020	B558364	<0.00020	0.00020	B558345
Total Tin (Sn)	mg/L	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345
Total Titanium (Ti)	mg/L	0.0024	0.0010	B558345	0.0033	0.0010	B558364	0.0018	0.0010	B558345
Total Uranium (U)	mg/L	<0.00010	0.00010	B558345	<0.00010	0.00010	B558364	<0.00010	0.00010	B558345
Total Vanadium (V)	mg/L	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345
Total Zinc (Zn)	mg/L	0.013	0.0030	B558345	0.0062	0.0030	B558364	<0.0030	0.0030	B558345

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG463		
Sampling Date		2024/10/02 12:00		
COC Number		737508-01-01		
	UNITS	SW-133	RDL	QC Batch
Elements				
Total Cadmium (Cd)	ug/L	<0.020	0.020	B554802
Total Aluminum (Al)	mg/L	0.049	0.0030	B558364
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B558364
Total Arsenic (As)	mg/L	0.00048	0.00020	B558364
Total Barium (Ba)	mg/L	<0.010	0.010	B558354
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B558364
Total Boron (B)	mg/L	<0.020	0.020	B558354
Total Calcium (Ca)	mg/L	7.8	0.30	B558354
Total Chromium (Cr)	mg/L	0.0015	0.0010	B558364
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B558364
Total Copper (Cu)	mg/L	0.0042	0.0010	B558364
Total Iron (Fe)	mg/L	0.22	0.080	B558354
Total Lead (Pb)	mg/L	<0.00020	0.00020	B558364
Total Lithium (Li)	mg/L	<0.020	0.020	B558354
Total Magnesium (Mg)	mg/L	2.6	0.20	B558354
Total Manganese (Mn)	mg/L	0.019	0.0040	B558354
Total Molybdenum (Mo)	mg/L	0.00021	0.00020	B558364
Total Nickel (Ni)	mg/L	0.0027	0.00050	B558364
Total Phosphorus (P)	mg/L	<0.10	0.10	B558354
Total Potassium (K)	mg/L	1.3	0.30	B558354
Total Selenium (Se)	mg/L	<0.00020	0.00020	B558364
Total Silicon (Si)	mg/L	1.3	0.50	B558354
Total Silver (Ag)	mg/L	<0.00010	0.00010	B558364
Total Sodium (Na)	mg/L	1.6	0.50	B558354
Total Strontium (Sr)	mg/L	<0.020	0.020	B558354
Total Sulphur (S)	mg/L	1.2	0.20	B558354
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B558364
Total Tin (Sn)	mg/L	<0.0010	0.0010	B558364
Total Titanium (Ti)	mg/L	0.0022	0.0010	B558364
Total Uranium (U)	mg/L	<0.00010	0.00010	B558364
Total Vanadium (V)	mg/L	<0.0010	0.0010	B558364
Total Zinc (Zn)	mg/L	0.0050	0.0030	B558364
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG458			CXG458			CXG459		
Sampling Date		2024/10/02 15:55			2024/10/02 15:55			2024/10/02 15:50		
COC Number		737508-01-01			737508-01-01			737508-01-01		
	UNITS	SC-2	RDL	QC Batch	SC-2 Lab-Dup	RDL	QC Batch	SC-3	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	41	0.50	B554717				46	0.50	B554717
Total Hardness (CaCO3)	mg/L	34.7	0.50	B553608				42.1	0.50	B553608
Misc. Inorganics										
pH	pH	6.45	N/A	B556136				6.42	N/A	B556136
Total Organic Carbon (C)	mg/L	13	0.50	B557626				12 (1)	1.0	B557621
Total Suspended Solids	mg/L	2.5	1.0	B555201				1.7	1.0	B555201
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	12 (2)	0.50	B557686	13	0.50	B557686	13 (2)	0.50	B557563
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556133				<1.0	1.0	B556133
Alkalinity (Total as CaCO3)	mg/L	30	1.0	B556133				28	1.0	B556133
Bicarbonate (HCO3)	mg/L	37	1.0	B556133				35	1.0	B556133
Carbonate (CO3)	mg/L	<1.0	1.0	B556133				<1.0	1.0	B556133
Hydroxide (OH)	mg/L	<1.0	1.0	B556133				<1.0	1.0	B556133
Sulphate (SO4)	mg/L	10	1.0	B556086				18	1.0	B556086
Physical Properties										
Turbidity	NTU	2.3	0.10	B556351				2.4	0.10	B556351

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Detection limits raised due to matrix interference.
(2) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C480213
Report Date: 2024/10/11

KGS Group
Client Project #: 21-1357-005

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG460	CXG461			CXG462			CXG463		
Sampling Date		2024/10/02 15:45	2024/10/02 15:55			2024/10/02 16:10			2024/10/02 12:00		
COC Number		737508-01-01	737508-01-01			737508-01-01			737508-01-01		
	UNITS	SC-4	SC-5	RDL	QC Batch	SC-6	RDL	QC Batch	SW-133	RDL	QC Batch
Calculated Parameters											
Hardness (CaCO3)	mg/L	34	35	0.50	B554812	34	0.50	B554812	35	0.50	B554812
Total Hardness (CaCO3)	mg/L	31.5	29.9	0.50	B553608	30.4	0.50	B553608	30.3	0.50	B553608
Misc. Inorganics											
pH	pH	6.52	6.51	N/A	B556136	6.55	N/A	B556136	6.10	N/A	B556889
Total Organic Carbon (C)	mg/L	12	13	0.50	B557626	13	0.50	B557621	12	0.50	B557621
Total Suspended Solids	mg/L	1.6	1.6	1.0	B557189	1.8	0.99	B557189	1.7	1.0	B557189
Lab Filtered Inorganics											
Dissolved Organic Carbon (C)	mg/L	13 (1)	14 (1)	0.50	B557563	13 (1)	0.50	B557563	13 (1)	0.50	B557563
Anions											
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	1.0	B556133	<1.0	1.0	B556133	<1.0	1.0	B556886
Alkalinity (Total as CaCO3)	mg/L	30	31	1.0	B556133	31	1.0	B556133	29	1.0	B556886
Bicarbonate (HCO3)	mg/L	37	38	1.0	B556133	38	1.0	B556133	36	1.0	B556886
Carbonate (CO3)	mg/L	<1.0	<1.0	1.0	B556133	<1.0	1.0	B556133	<1.0	1.0	B556886
Hydroxide (OH)	mg/L	<1.0	<1.0	1.0	B556133	<1.0	1.0	B556133	<1.0	1.0	B556886
Sulphate (SO4)	mg/L	2.2	1.7	1.0	B556086	1.1	1.0	B556086	1.6	1.0	B556086
Physical Properties											
Turbidity	NTU	2.2	2.3	0.10	B556351	2.0	0.10	B556351	2.9	0.10	B556351

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG463		
Sampling Date		2024/10/02 12:00		
COC Number		737508-01-01		
	UNITS	**SW-133 Lab-Dup**	**RDL**	**QC Batch**
Misc. Inorganics				
pH	pH	6.12	N/A	B556889
Anions				
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556886
Alkalinity (Total as CaCO3)	mg/L	29	1.0	B556886
Bicarbonate (HCO3)	mg/L	36	1.0	B556886
Carbonate (CO3)	mg/L	<1.0	1.0	B556886
Hydroxide (OH)	mg/L	<1.0	1.0	B556886

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	-2.0°C
Package 2	1.6°C
Package 3	-1.5°C
Package 4	1.9°C
Package 5	0.5°C

Sample CXG458 [SC-2] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG459 [SC-3] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG460 [SC-4] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG461 [SC-5] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG462 [SC-6] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG463 [SW-133] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B555201	Total Suspended Solids	2024/10/08	99	80 - 120	92	80 - 120	<0.99	mg/L	11	20
B556086	Sulphate (SO4)	2024/10/08	94	80 - 120	97	80 - 120	<1.0	mg/L	0.42	20
B556133	Alkalinity (PP as CaCO3)	2024/10/08					<1.0	mg/L	NC	20
B556133	Alkalinity (Total as CaCO3)	2024/10/08			103	80 - 120	<1.0	mg/L	3.8	20
B556133	Bicarbonate (HCO3)	2024/10/08					<1.0	mg/L	3.8	20
B556133	Carbonate (CO3)	2024/10/08					<1.0	mg/L	NC	20
B556133	Hydroxide (OH)	2024/10/08					<1.0	mg/L	NC	20
B556136	pH	2024/10/08			101	97 - 103			2.0	N/A
B556351	Turbidity	2024/10/08			101	80 - 120	<0.10	NTU	3.9	20
B556626	Dissolved Aluminum (Al)	2024/10/09	95	80 - 120	100	80 - 120	<0.0030	mg/L	6.2	20
B556626	Dissolved Antimony (Sb)	2024/10/09	100	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20
B556626	Dissolved Arsenic (As)	2024/10/09	103	80 - 120	97	80 - 120	<0.00020	mg/L	15	20
B556626	Dissolved Beryllium (Be)	2024/10/09	96	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B556626	Dissolved Chromium (Cr)	2024/10/09	94	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B556626	Dissolved Cobalt (Co)	2024/10/09	95	80 - 120	95	80 - 120	<0.00030	mg/L	NC	20
B556626	Dissolved Copper (Cu)	2024/10/09	95	80 - 120	95	80 - 120	<0.0010	mg/L	0.99	20
B556626	Dissolved Lead (Pb)	2024/10/09	94	80 - 120	99	80 - 120	<0.00020	mg/L	10	20
B556626	Dissolved Molybdenum (Mo)	2024/10/09	96	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B556626	Dissolved Nickel (Ni)	2024/10/09	97	80 - 120	94	80 - 120	<0.00050	mg/L	NC	20
B556626	Dissolved Selenium (Se)	2024/10/09	104	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B556626	Dissolved Silver (Ag)	2024/10/09	93	80 - 120	95	80 - 120	<0.00010	mg/L	NC	20
B556626	Dissolved Thallium (Tl)	2024/10/09	93	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B556626	Dissolved Tin (Sn)	2024/10/09	95	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B556626	Dissolved Titanium (Ti)	2024/10/09	91	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B556626	Dissolved Uranium (U)	2024/10/09	96	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B556626	Dissolved Vanadium (V)	2024/10/09	95	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B556626	Dissolved Zinc (Zn)	2024/10/09	NC	80 - 120	96	80 - 120	<0.0030	mg/L	0.86	20
B556886	Alkalinity (PP as CaCO3)	2024/10/09					<1.0	mg/L	NC	20
B556886	Alkalinity (Total as CaCO3)	2024/10/09			97	80 - 120	<1.0	mg/L	0.025	20
B556886	Bicarbonate (HCO3)	2024/10/09					<1.0	mg/L	0.025	20
B556886	Carbonate (CO3)	2024/10/09					<1.0	mg/L	NC	20
B556886	Hydroxide (OH)	2024/10/09					<1.0	mg/L	NC	20
B556889	pH	2024/10/09			101	97 - 103			0.42	N/A

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B557189	Total Suspended Solids	2024/10/09	113	80 - 120	96	80 - 120	<1.0	mg/L	NC	20
B557563	Dissolved Organic Carbon (C)	2024/10/09	NC	75 - 125	107	80 - 120	<0.50	mg/L	3.4	20
B557580	Dissolved Barium (Ba)	2024/10/09	98	80 - 120	98	80 - 120	<0.010	mg/L		
B557580	Dissolved Boron (B)	2024/10/09	98	80 - 120	98	80 - 120	<0.020	mg/L		
B557580	Dissolved Calcium (Ca)	2024/10/09	95	80 - 120	99	80 - 120	<0.30	mg/L	3.4	20
B557580	Dissolved Iron (Fe)	2024/10/09	109	80 - 120	103	80 - 120	<0.060	mg/L	NC	20
B557580	Dissolved Lithium (Li)	2024/10/09	98	80 - 120	97	80 - 120	<0.020	mg/L		
B557580	Dissolved Magnesium (Mg)	2024/10/09	103	80 - 120	102	80 - 120	<0.20	mg/L	2.5	20
B557580	Dissolved Manganese (Mn)	2024/10/09	102	80 - 120	96	80 - 120	<0.0040	mg/L	NC	20
B557580	Dissolved Phosphorus (P)	2024/10/09	106	80 - 120	103	80 - 120	<0.10	mg/L		
B557580	Dissolved Potassium (K)	2024/10/09	100	80 - 120	101	80 - 120	<0.30	mg/L	3.9	20
B557580	Dissolved Silicon (Si)	2024/10/09	97	80 - 120	101	80 - 120	<0.50	mg/L		
B557580	Dissolved Sodium (Na)	2024/10/09	100	80 - 120	101	80 - 120	<0.50	mg/L	2.7	20
B557580	Dissolved Strontium (Sr)	2024/10/09	94	80 - 120	97	80 - 120	<0.020	mg/L		
B557580	Dissolved Sulphur (S)	2024/10/09	106	80 - 120	100	80 - 120	<0.20	mg/L		
B557621	Total Organic Carbon (C)	2024/10/09	NC	75 - 125	102	80 - 120	<0.50	mg/L	0.77	20
B557626	Total Organic Carbon (C)	2024/10/09	106	75 - 125	93	80 - 120	<0.50	mg/L	3.9	20
B557686	Dissolved Organic Carbon (C)	2024/10/09	NC	75 - 125	102	80 - 120	<0.50	mg/L	7.0	20
B557916	Dissolved Barium (Ba)	2024/10/09	97	80 - 120	98	80 - 120	<0.010	mg/L	3.9	20
B557916	Dissolved Boron (B)	2024/10/09	97	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B557916	Dissolved Calcium (Ca)	2024/10/09	98	80 - 120	98	80 - 120	<0.30	mg/L	0.80	20
B557916	Dissolved Iron (Fe)	2024/10/09	101	80 - 120	99	80 - 120	<0.060	mg/L	2.3	20
B557916	Dissolved Lithium (Li)	2024/10/09	96	80 - 120	96	80 - 120	<0.020	mg/L	NC	20
B557916	Dissolved Magnesium (Mg)	2024/10/09	102	80 - 120	100	80 - 120	<0.20	mg/L	0.20	20
B557916	Dissolved Manganese (Mn)	2024/10/09	94	80 - 120	92	80 - 120	<0.0040	mg/L	0	20
B557916	Dissolved Phosphorus (P)	2024/10/09	102	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B557916	Dissolved Potassium (K)	2024/10/09	98	80 - 120	99	80 - 120	<0.30	mg/L	0.71	20
B557916	Dissolved Silicon (Si)	2024/10/09	96	80 - 120	97	80 - 120	<0.50	mg/L	2.3	20
B557916	Dissolved Sodium (Na)	2024/10/09	100	80 - 120	101	80 - 120	<0.50	mg/L	0.59	20
B557916	Dissolved Strontium (Sr)	2024/10/09	95	80 - 120	97	80 - 120	<0.020	mg/L	1.2	20
B557916	Dissolved Sulphur (S)	2024/10/09	101	80 - 120	97	80 - 120	<0.20	mg/L	0.79	20
B558338	Total Barium (Ba)	2024/10/10	96	80 - 120	98	80 - 120	<0.010	mg/L	NC	20
B558338	Total Boron (B)	2024/10/10	96	80 - 120	98	80 - 120	<0.020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B558338	Total Calcium (Ca)	2024/10/10	96	80 - 120	98	80 - 120	<0.30	mg/L	1.9	20
B558338	Total Iron (Fe)	2024/10/10	95	80 - 120	94	80 - 120	<0.060	mg/L	1.6	20
B558338	Total Lithium (Li)	2024/10/10	93	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B558338	Total Magnesium (Mg)	2024/10/10	96	80 - 120	96	80 - 120	<0.20	mg/L	2.5	20
B558338	Total Manganese (Mn)	2024/10/10	91	80 - 120	91	80 - 120	<0.0040	mg/L	2.3	20
B558338	Total Phosphorus (P)	2024/10/10	93	80 - 120	93	80 - 120	<0.10	mg/L	NC	20
B558338	Total Potassium (K)	2024/10/10	99	80 - 120	100	80 - 120	<0.30	mg/L	3.3	20
B558338	Total Silicon (Si)	2024/10/10	93	80 - 120	93	80 - 120	<0.50	mg/L	0.51	20
B558338	Total Sodium (Na)	2024/10/10	98	80 - 120	100	80 - 120	<0.50	mg/L	2.0	20
B558338	Total Strontium (Sr)	2024/10/10	94	80 - 120	96	80 - 120	<0.020	mg/L	1.9	20
B558338	Total Sulphur (S)	2024/10/10	97	80 - 120	90	80 - 120	<0.20	mg/L	2.4	20
B558345	Total Aluminum (Al)	2024/10/10	108	80 - 120	103	80 - 120	<0.0030	mg/L	2.8	20
B558345	Total Antimony (Sb)	2024/10/10	110	80 - 120	104	80 - 120	<0.00060	mg/L	NC	20
B558345	Total Arsenic (As)	2024/10/10	119	80 - 120	104	80 - 120	<0.00020	mg/L	15	20
B558345	Total Beryllium (Be)	2024/10/10	117	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B558345	Total Chromium (Cr)	2024/10/10	116	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B558345	Total Cobalt (Co)	2024/10/10	116	80 - 120	100	80 - 120	<0.00030	mg/L	NC	20
B558345	Total Copper (Cu)	2024/10/10	113	80 - 120	99	80 - 120	<0.0010	mg/L	0.99	20
B558345	Total Lead (Pb)	2024/10/10	119	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B558345	Total Molybdenum (Mo)	2024/10/10	118	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B558345	Total Nickel (Ni)	2024/10/10	116	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20
B558345	Total Selenium (Se)	2024/10/10	114	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B558345	Total Silver (Ag)	2024/10/10	115	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B558345	Total Thallium (Tl)	2024/10/10	112	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20
B558345	Total Tin (Sn)	2024/10/10	118	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B558345	Total Titanium (Ti)	2024/10/10	114	80 - 120	98	80 - 120	<0.0010	mg/L	4.4	20
B558345	Total Uranium (U)	2024/10/10	119	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20
B558345	Total Vanadium (V)	2024/10/10	118	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B558345	Total Zinc (Zn)	2024/10/10	110	80 - 120	98	80 - 120	<0.0030	mg/L	19	20
B558354	Total Barium (Ba)	2024/10/10	100	80 - 120	99	80 - 120	<0.010	mg/L	2.4	20
B558354	Total Boron (B)	2024/10/10	97	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B558354	Total Calcium (Ca)	2024/10/10	98	80 - 120	94	80 - 120	<0.30	mg/L	7.6	20
B558354	Total Iron (Fe)	2024/10/10	NC	80 - 120	102	80 - 120	<0.080 (1)	mg/L	1.0	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B558354	Total Lithium (Li)	2024/10/10	94	80 - 120	92	80 - 120	<0.020	mg/L	NC	20
B558354	Total Magnesium (Mg)	2024/10/10	101	80 - 120	100	80 - 120	<0.20	mg/L	6.8	20
B558354	Total Manganese (Mn)	2024/10/10	98	80 - 120	97	80 - 120	<0.0040	mg/L	6.4	20
B558354	Total Phosphorus (P)	2024/10/10	98	80 - 120	98	80 - 120	<0.10	mg/L	NC	20
B558354	Total Potassium (K)	2024/10/10	93	80 - 120	92	80 - 120	<0.30	mg/L	8.5	20
B558354	Total Silicon (Si)	2024/10/10	96	80 - 120	95	80 - 120	<0.50	mg/L	3.3	20
B558354	Total Sodium (Na)	2024/10/10	92	80 - 120	91	80 - 120	<0.50	mg/L	7.4	20
B558354	Total Strontium (Sr)	2024/10/10	94	80 - 120	94	80 - 120	<0.020	mg/L	7.3	20
B558354	Total Sulphur (S)	2024/10/10	95	80 - 120	93	80 - 120	<0.20	mg/L	5.3	20
B558364	Total Aluminum (Al)	2024/10/11	107	80 - 120	97	80 - 120	<0.0030	mg/L	3.2	20
B558364	Total Antimony (Sb)	2024/10/11	109	80 - 120	109	80 - 120	<0.00060	mg/L	NC	20
B558364	Total Arsenic (As)	2024/10/11	106	80 - 120	105	80 - 120	<0.00020	mg/L	3.7	20
B558364	Total Beryllium (Be)	2024/10/11	105	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B558364	Total Chromium (Cr)	2024/10/11	104	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B558364	Total Cobalt (Co)	2024/10/11	105	80 - 120	101	80 - 120	<0.00030	mg/L	NC	20
B558364	Total Copper (Cu)	2024/10/11	105	80 - 120	101	80 - 120	<0.0010	mg/L	19	20
B558364	Total Lead (Pb)	2024/10/11	107	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B558364	Total Molybdenum (Mo)	2024/10/11	109	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20
B558364	Total Nickel (Ni)	2024/10/11	105	80 - 120	102	80 - 120	<0.00050	mg/L	18	20
B558364	Total Selenium (Se)	2024/10/11	106	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B558364	Total Silver (Ag)	2024/10/11	107	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20
B558364	Total Thallium (Tl)	2024/10/11	110	80 - 120	109	80 - 120	<0.00020	mg/L	NC	20
B558364	Total Tin (Sn)	2024/10/11	105	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20
B558364	Total Titanium (Ti)	2024/10/11	103	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B558364	Total Uranium (U)	2024/10/11	110	80 - 120	106	80 - 120	<0.00010	mg/L	NC	20
B558364	Total Vanadium (V)	2024/10/11	106	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B558364	Total Zinc (Zn)	2024/10/11	101	80 - 120	101	80 - 120	<0.0030	mg/L	6.4	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) DL raised

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

C480213
2024/10/04 14:50

Page 1 of 1

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins ; Rachel Dyck	P.O. #			737508
Address	3rd Floor 865 Waverly St	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5T4			Project Name		C#737508-01-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - Sherridon Mine Site		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com ; rdyck@kgsgroup.com	Sampled By			

Regulatory Criteria: ~~RECREATIONAL~~ MWQSOG

Special Instructions: Analyze DOC & turbidity ASAP to meet hold times

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10ºC) from time of sampling until delivery to Bureau Veritas

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	pH, Alkalinity	Total Suspended Solids (NFR)	Turbidity	Regulated Metals (CCME/AT1) - Total	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	Hardness Total (calculated as CaCO3)	Sulphate	Carbon (Total Organic)	Carbon (DOC) -Lab Filtered	# of Bottles	Comments
1		SC-2	24/10/02	15:55	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		SC-3		15:50	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
3		SC-4		15:45	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
4		SC-5		15:55	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
5		SC-6	↓	16:10	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
6		SW-133	↓	PM	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
7																			
8																			
9																			
10																			

Analysis Requested

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

MCAL-2024-10-637

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (ºC) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Perrella	24/10/04	14:45	Kazi Sultana	2024-10-04	1450			ACTR	Yes / No
			JASON BIL	2024 10 07	0930			CALACTR	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Ice - Yes

Bureau Veritas Canada (2019) Inc.

WINNIPEG ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 1	G#737508-01-01
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	

RECEIPT OBSERVATIONS:

	YES	NO				
CUSTODY SEAL PRESENT		✓	COOLER ID 1			
CUSTODY SEAL INTACT		✓	TEMP	-2.0 (1)	-1.8 (2)	-2.2 (3)
ICE PRESENT	✓					
CUSTODY SEAL PRESENT		✓	COOLER ID 2			
CUSTODY SEAL INTACT		✓	TEMP	0.9 (1)	2.8 (2)	1.0 (3)
ICE PRESENT	✓					
CUSTODY SEAL PRESENT		✓	COOLER ID 3			
CUSTODY SEAL INTACT		✓	TEMP	-1.3 (1)	-1.6 (2)	-1.5 (3)
ICE PRESENT	✓					
CUSTODY SEAL PRESENT		✓	COOLER ID 4			
CUSTODY SEAL INTACT		✓	TEMP	0.3 (1)	3.6 (2)	1.8 (3)
ICE PRESENT	✓					
CUSTODY SEAL PRESENT		✓	COOLER ID 5			
CUSTODY SEAL INTACT		✓	TEMP	1.8 (1)	-0.1 (2)	-0.3 (3)
ICE PRESENT	✓					
CUSTODY SEAL PRESENT			COOLER ID 6			
CUSTODY SEAL INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL PRESENT			COOLER ID 7			
CUSTODY SEAL INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL PRESENT			COOLER ID 8			
CUSTODY SEAL INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL PRESENT			COOLER ID 9			
CUSTODY SEAL INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						
CUSTODY SEAL PRESENT			COOLER ID 10			
CUSTODY SEAL INTACT			TEMP	(1)	(2)	(3)
ICE PRESENT						

BUREAU VERITAS JOB#

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
Kazi Sultana	2024-10-04	1450

C480213
2024/10/04 14:50

BUREAU VERITAS

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1/2 of 2/2	721083
Page 3/3 of 3/3	737331
Page 1 of 1	737508
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS: MCAL

BV JOB#:

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	3.3	1.2	3.1
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	2.3	2.4	1.9
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1.2	1.9	3.1
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	2.1	0.0	0.2
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	3.3	3.8	5.4
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1.9	0.8	16
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
Jason Bil		2024 10 07	0930

C480213
2024/10/04 14:50

Your Project #: 21-1357-005
Site Location: OAM - SHERRIDON MINE STIE
Your C.O.C. #: C#737331-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/10/11
Report #: R3571098
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C480255
Received: 2024/10/04, 14:50

Sample Matrix: Water
Samples Received: 26

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	15	N/A	2024/10/08	AB SOP-00005	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	11	N/A	2024/10/09	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	26	N/A	2024/10/10		Auto Calc
Cadmium - low level CCME (Total) (1)	26	N/A	2024/10/11		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	26	N/A	2024/10/08	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	26	N/A	2024/10/09	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	13	N/A	2024/10/10		Auto Calc
Hardness (1)	13	N/A	2024/10/09		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	16	N/A	2024/10/10	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	10	N/A	2024/10/11	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	26	N/A	2024/10/09	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	25	2024/10/09	2024/10/10	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	1	2024/10/09	2024/10/11	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	26	N/A	2024/10/09	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	16	2024/10/09	2024/10/10	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	10	2024/10/09	2024/10/11	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	15	N/A	2024/10/08	AB SOP-00005	SM 24 4500-H+B m
pH @25°C (1, 6)	11	N/A	2024/10/09	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	26	N/A	2024/10/09	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	26	2024/10/09	2024/10/09	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	10	N/A	2024/10/08	CAL SOP-00081	SM 24 2130 B m
Turbidity (1)	16	N/A	2024/10/09	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site Location: OAM - SHERRIDON MINE STIE
Your C.O.C. #: C#737331-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/10/11
Report #: R3571098
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C480255
Received: 2024/10/04, 14:50

writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(7) TOC present in the sample should be considered as non-purgeable TOC.

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173
==========
This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG714			CXG714			CXG715		
Sampling Date		2024/10/02 16:20			2024/10/02 16:20			2024/10/02 14:40		
COC Number		C#737331-01-01			C#737331-01-01			C#737331-01-01		
	UNITS	SC-1	RDL	QC Batch	SC-1 Lab-Dup	RDL	QC Batch	SB-1	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.73	0.020	B554570				0.24	0.020	B554570
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.022	0.0030	B556614				0.021	0.0030	B556626
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B556614				<0.00060	0.00060	B556626
Dissolved Arsenic (As)	mg/L	0.00047	0.00020	B556614				0.00036	0.00020	B556626
Dissolved Barium (Ba)	mg/L	0.010	0.010	B557916	<0.010	0.010	B557916	0.012	0.010	B557916
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B556614				<0.0010	0.0010	B556626
Dissolved Boron (B)	mg/L	<0.020	0.020	B557916	<0.020	0.020	B557916	<0.020	0.020	B557916
Dissolved Calcium (Ca)	mg/L	10	0.30	B557916	10	0.30	B557916	34	0.30	B557916
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B556614				<0.0010	0.0010	B556626
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B556614				<0.00030	0.00030	B556626
Dissolved Copper (Cu)	mg/L	0.027	0.0010	B556614				0.0088	0.0010	B556626
Dissolved Iron (Fe)	mg/L	0.15	0.060	B557916	0.16	0.060	B557916	4.4	0.060	B557916
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B556614				0.00028	0.00020	B556626
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B557916	<0.020	0.020	B557916	<0.020	0.020	B557916
Dissolved Magnesium (Mg)	mg/L	3.3	0.20	B557916	3.3	0.20	B557916	6.5	0.20	B557916
Dissolved Manganese (Mn)	mg/L	0.027	0.0040	B557916	0.027	0.0040	B557916	0.056	0.0040	B557916
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B556614				<0.00020	0.00020	B556626
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B556614				0.00063	0.00050	B556626
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B557916	<0.10	0.10	B557916	<0.10	0.10	B557916
Dissolved Potassium (K)	mg/L	1.8	0.30	B557916	1.8	0.30	B557916	3.4	0.30	B557916
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B556614				<0.00020	0.00020	B556626
Dissolved Silicon (Si)	mg/L	1.1	0.50	B557916	1.1	0.50	B557916	0.76	0.50	B557916
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B556614				<0.00010	0.00010	B556626
Dissolved Sodium (Na)	mg/L	3.6	0.50	B557916	3.6	0.50	B557916	3.1	0.50	B557916
Dissolved Strontium (Sr)	mg/L	0.026	0.020	B557916	0.026	0.020	B557916	0.047	0.020	B557916
Dissolved Sulphur (S)	mg/L	3.6	0.20	B557916	3.6	0.20	B557916	32	0.20	B557916
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B556614				<0.00020	0.00020	B556626
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B556614				<0.0010	0.0010	B556626
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B556614				<0.0010	0.0010	B556626
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B556614				<0.00010	0.00010	B556626

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG714			CXG714			CXG715		
Sampling Date		2024/10/02 16:20			2024/10/02 16:20			2024/10/02 14:40		
COC Number		C#737331-01-01			C#737331-01-01			C#737331-01-01		
	UNITS	**SC-1**	**RDL**	**QC Batch**	**SC-1 Lab-Dup**	**RDL**	**QC Batch**	**SB-1**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B556614				<0.0010	0.0010	B556626
Dissolved Zinc (Zn)	mg/L	0.32	0.0030	B556614				0.065	0.0030	B556626

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG716	CXG717			CXG717		
Sampling Date		2024/10/02 14:35	2024/10/02 14:45			2024/10/02 14:45		
COC Number		C#737331-01-01	C#737331-01-01			C#737331-01-01		
	UNITS	SB-2	CB-1	RDL	QC Batch	CB-1 Lab-Dup	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.22	0.24	0.020	B554570			
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.014	0.019	0.0030	B556626	0.021	0.0030	B556626
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B556626	<0.00060	0.00060	B556626
Dissolved Arsenic (As)	mg/L	0.00033	0.00035	0.00020	B556626	0.00040	0.00020	B556626
Dissolved Barium (Ba)	mg/L	0.011	0.011	0.010	B557580			
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B556626	<0.0010	0.0010	B556626
Dissolved Boron (B)	mg/L	<0.020	<0.020	0.020	B557580			
Dissolved Calcium (Ca)	mg/L	35	35	0.30	B557580			
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B556626	<0.0010	0.0010	B556626
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	0.00030	B556626	<0.00030	0.00030	B556626
Dissolved Copper (Cu)	mg/L	0.0070	0.0085	0.0010	B556626	0.0084	0.0010	B556626
Dissolved Iron (Fe)	mg/L	4.0	4.2	0.060	B557580			
Dissolved Lead (Pb)	mg/L	0.00021	0.00025	0.00020	B556626	0.00028	0.00020	B556626
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	0.020	B557580			
Dissolved Magnesium (Mg)	mg/L	6.8	6.7	0.20	B557580			
Dissolved Manganese (Mn)	mg/L	0.063	0.052	0.0040	B557580			
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	0.00020	B556626	<0.00020	0.00020	B556626
Dissolved Nickel (Ni)	mg/L	0.00058	0.00056	0.00050	B556626	0.00070	0.00050	B556626
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B557580			
Dissolved Potassium (K)	mg/L	3.4	3.4	0.30	B557580			
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B556626	<0.00020	0.00020	B556626
Dissolved Silicon (Si)	mg/L	0.75	0.76	0.50	B557580			
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B556626	<0.00010	0.00010	B556626
Dissolved Sodium (Na)	mg/L	3.1	3.1	0.50	B557580			
Dissolved Strontium (Sr)	mg/L	0.046	0.046	0.020	B557580			
Dissolved Sulphur (S)	mg/L	34	34	0.20	B557580			
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B556626	<0.00020	0.00020	B556626
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B556626	<0.0010	0.0010	B556626
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	0.0010	B556626	<0.0010	0.0010	B556626
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	B556626	<0.00010	0.00010	B556626

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG716	CXG717			CXG717		
Sampling Date		2024/10/02 14:35	2024/10/02 14:45			2024/10/02 14:45		
COC Number		C#737331-01-01	C#737331-01-01			C#737331-01-01		
	UNITS	**SB-2**	**CB-1**	**RDL**	**QC Batch**	**CB-1 Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B556626	<0.0010	0.0010	B556626
Dissolved Zinc (Zn)	mg/L	0.056	0.063	0.0030	B556626	0.063	0.0030	B556626

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG718		CXG719	CXG720		CXG721		
Sampling Date		2024/10/02 14:50		2024/10/02 14:55	2024/10/02 15:00		2024/10/02 15:10		
COC Number		C#737331-01-01		C#737331-01-01	C#737331-01-01		C#737331-01-01		
	UNITS	CB-2	QC Batch	EB-1	EB-2	QC Batch	NB-1	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.24	B554570	0.41	0.36	B554570	0.26	0.020	B554570
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.019	B556614	0.028	0.033	B556626	0.022	0.0030	B556614
Dissolved Antimony (Sb)	mg/L	<0.00060	B556614	<0.00060	<0.00060	B556626	<0.00060	0.00060	B556614
Dissolved Arsenic (As)	mg/L	0.00033	B556614	0.00031	0.00036	B556626	0.00027	0.00020	B556614
Dissolved Barium (Ba)	mg/L	0.012	B557916	0.013	0.013	B557580	0.011	0.010	B557916
Dissolved Beryllium (Be)	mg/L	<0.0010	B556614	<0.0010	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Boron (B)	mg/L	<0.020	B557916	<0.020	<0.020	B557580	<0.020	0.020	B557916
Dissolved Calcium (Ca)	mg/L	34	B557916	43	43	B557580	39	0.30	B557916
Dissolved Chromium (Cr)	mg/L	<0.0010	B556614	<0.0010	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Cobalt (Co)	mg/L	<0.00030	B556614	<0.00030	<0.00030	B556626	<0.00030	0.00030	B556614
Dissolved Copper (Cu)	mg/L	0.0080	B556614	0.015	0.011	B556626	0.0087	0.0010	B556614
Dissolved Iron (Fe)	mg/L	3.8	B557916	1.8	1.8	B557580	3.6	0.060	B557916
Dissolved Lead (Pb)	mg/L	0.00023	B556614	<0.00020	0.00040	B556626	<0.00020	0.00020	B561985
Dissolved Lithium (Li)	mg/L	<0.020	B557916	<0.020	<0.020	B557580	<0.020	0.020	B557916
Dissolved Magnesium (Mg)	mg/L	6.4	B557916	7.6	7.6	B557580	7.2	0.20	B557916
Dissolved Manganese (Mn)	mg/L	0.053	B557916	0.028	0.021	B557580	0.041	0.0040	B557916
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B556614	<0.00020	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Nickel (Ni)	mg/L	0.00053	B556614	0.0010	0.0016	B556626	0.00055	0.00050	B556614
Dissolved Phosphorus (P)	mg/L	<0.10	B557916	<0.10	<0.10	B557580	<0.10	0.10	B557916
Dissolved Potassium (K)	mg/L	3.2	B557916	3.6	3.7	B557580	3.4	0.30	B557916
Dissolved Selenium (Se)	mg/L	<0.00020	B556614	<0.00020	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Silicon (Si)	mg/L	0.74	B557916	0.51	<0.50	B557580	0.69	0.50	B557916
Dissolved Silver (Ag)	mg/L	<0.00010	B556614	<0.00010	<0.00010	B556626	<0.00010	0.00010	B556614
Dissolved Sodium (Na)	mg/L	3.0	B557916	3.2	3.2	B557580	2.9	0.50	B557916
Dissolved Strontium (Sr)	mg/L	0.045	B557916	0.052	0.052	B557580	0.048	0.020	B557916
Dissolved Sulphur (S)	mg/L	33	B557916	42	41	B557580	37	0.20	B557916
Dissolved Thallium (Tl)	mg/L	<0.00020	B556614	<0.00020	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Tin (Sn)	mg/L	<0.0010	B556614	<0.0010	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Titanium (Ti)	mg/L	<0.0010	B556614	<0.0010	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Uranium (U)	mg/L	<0.00010	B556614	<0.00010	<0.00010	B556626	<0.00010	0.00010	B556614
Dissolved Vanadium (V)	mg/L	<0.0010	B556614	<0.0010	<0.0010	B556626	<0.0010	0.0010	B556614

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG718		CXG719	CXG720		CXG721		
Sampling Date		2024/10/02 14:50		2024/10/02 14:55	2024/10/02 15:00		2024/10/02 15:10		
COC Number		C#737331-01-01		C#737331-01-01	C#737331-01-01		C#737331-01-01		
	UNITS	**CB-2**	**QC Batch**	**EB-1**	**EB-2**	**QC Batch**	**NB-1**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.061	B556614	0.13	0.11	B556626	0.067	0.0030	B556614
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG723	CXG725		CXG727		CXG730		
Sampling Date		2024/10/02 15:05	2024/10/02 15:15		2024/10/02 14:00		2024/10/02 14:05		
COC Number		C#737331-01-01	C#737331-01-01		C#737331-01-01		C#737331-01-01		
	UNITS	NB-2	CLD	QC Batch	CL-3 SFC	QC Batch	CL-3 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	0.26	0.24	B554570	0.028	B554570	0.026	0.020	B554570
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.019	0.019	B556614	0.019	B556626	0.018	0.0030	B556614
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B556614	<0.00060	B556626	<0.00060	0.00060	B556614
Dissolved Arsenic (As)	mg/L	0.00033	0.00040	B556614	0.00034	B556626	0.00038	0.00020	B556614
Dissolved Barium (Ba)	mg/L	0.010	0.011	B557916	<0.010	B557580	<0.010	0.010	B557916
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B556614	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Boron (B)	mg/L	<0.020	<0.020	B557916	<0.020	B557580	<0.020	0.020	B557916
Dissolved Calcium (Ca)	mg/L	38	38	B557916	15	B557580	15	0.30	B557916
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B556614	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B556614	<0.00030	B556626	<0.00030	0.00030	B556614
Dissolved Copper (Cu)	mg/L	0.0085	0.0081	B556614	0.0056	B556626	0.0056	0.0010	B556614
Dissolved Iron (Fe)	mg/L	3.3	2.9	B557916	0.33	B557580	0.33	0.060	B557916
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B556614	<0.00020	B556626	<0.00020	0.00020	B561985
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B557916	<0.020	B557580	<0.020	0.020	B557916
Dissolved Magnesium (Mg)	mg/L	7.0	7.0	B557916	4.1	B557580	4.0	0.20	B557916
Dissolved Manganese (Mn)	mg/L	0.050	0.045	B557916	<0.0040	B557580	<0.0040	0.0040	B557916
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B556614	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Nickel (Ni)	mg/L	0.0013	0.00061	B556614	<0.00050	B556626	<0.00050	0.00050	B556614
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B557916	<0.10	B557580	<0.10	0.10	B557916
Dissolved Potassium (K)	mg/L	3.2	3.3	B557916	1.8	B557580	1.8	0.30	B557916
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B556614	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Silicon (Si)	mg/L	0.68	0.65	B557916	0.78	B557580	0.77	0.50	B557916
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B556614	<0.00010	B556626	<0.00010	0.00010	B556614
Dissolved Sodium (Na)	mg/L	2.8	2.8	B557916	2.3	B557580	2.3	0.50	B557916
Dissolved Strontium (Sr)	mg/L	0.046	0.047	B557916	0.032	B557580	0.032	0.020	B557916
Dissolved Sulphur (S)	mg/L	38	37	B557916	8.5	B557580	8.3	0.20	B557916
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B556614	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B556614	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B556614	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B556614	<0.00010	B556626	<0.00010	0.00010	B556614
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B556614	<0.0010	B556626	<0.0010	0.0010	B556614

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG723	CXG725		CXG727		CXG730		
Sampling Date		2024/10/02 15:05	2024/10/02 15:15		2024/10/02 14:00		2024/10/02 14:05		
COC Number		C#737331-01-01	C#737331-01-01		C#737331-01-01		C#737331-01-01		
	UNITS	**NB-2**	**CLD**	**QC Batch**	**CL-3 SFC**	**QC Batch**	**CL-3 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.064	0.061	B556614	0.010	B556626	0.010	0.0030	B556614
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG732		CXG734	CXG736	CXG739		
Sampling Date		2024/10/02 14:10		2024/10/02 14:15	2024/10/02 13:50	2024/10/02 13:55		
COC Number		C#737331-01-01		C#737331-01-01	C#737331-01-01	C#737331-01-01		
	UNITS	CL-7 SFC	QC Batch	CL-7 BTM	CL-8 SFC	CL-8 BTM	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	<0.020	B554570	<0.020	0.024	0.023	0.020	B554570
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.020	B556626	0.015	0.017	0.016	0.0030	B556614
Dissolved Antimony (Sb)	mg/L	<0.00060	B556626	<0.00060	<0.00060	<0.00060	0.00060	B556614
Dissolved Arsenic (As)	mg/L	0.00040	B556626	0.00039	0.00039	0.00044	0.00020	B556614
Dissolved Barium (Ba)	mg/L	<0.010	B557580	<0.010	<0.010	<0.010	0.010	B557580
Dissolved Beryllium (Be)	mg/L	<0.0010	B556626	<0.0010	<0.0010	<0.0010	0.0010	B556614
Dissolved Boron (B)	mg/L	<0.020	B557580	<0.020	<0.020	<0.020	0.020	B557580
Dissolved Calcium (Ca)	mg/L	15	B557580	15	15	15	0.30	B557580
Dissolved Chromium (Cr)	mg/L	<0.0010	B556626	<0.0010	<0.0010	<0.0010	0.0010	B556614
Dissolved Cobalt (Co)	mg/L	<0.00030	B556626	<0.00030	<0.00030	<0.00030	0.00030	B556614
Dissolved Copper (Cu)	mg/L	0.0057	B556626	0.0057	0.0056	0.0058	0.0010	B556614
Dissolved Iron (Fe)	mg/L	0.32	B557580	0.40	0.34	0.36	0.060	B557580
Dissolved Lead (Pb)	mg/L	<0.00020	B556626	<0.00020	<0.00020	<0.00020	0.00020	B556614
Dissolved Lithium (Li)	mg/L	<0.020	B557580	<0.020	<0.020	<0.020	0.020	B557580
Dissolved Magnesium (Mg)	mg/L	4.1	B557580	4.1	4.0	4.0	0.20	B557580
Dissolved Manganese (Mn)	mg/L	<0.0040	B557580	<0.0040	<0.0040	<0.0040	0.0040	B557580
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B556626	<0.00020	<0.00020	<0.00020	0.00020	B556614
Dissolved Nickel (Ni)	mg/L	<0.00050	B556626	<0.00050	0.00060	<0.00050	0.00050	B556614
Dissolved Phosphorus (P)	mg/L	<0.10	B557580	<0.10	<0.10	<0.10	0.10	B557580
Dissolved Potassium (K)	mg/L	1.8	B557580	1.8	1.8	1.8	0.30	B557580
Dissolved Selenium (Se)	mg/L	<0.00020	B556626	<0.00020	<0.00020	<0.00020	0.00020	B556614
Dissolved Silicon (Si)	mg/L	0.77	B557580	0.78	0.76	0.77	0.50	B557580
Dissolved Silver (Ag)	mg/L	<0.00010	B556626	<0.00010	<0.00010	<0.00010	0.00010	B556614
Dissolved Sodium (Na)	mg/L	2.3	B557580	2.3	2.3	2.3	0.50	B557580
Dissolved Strontium (Sr)	mg/L	0.032	B557580	0.032	0.032	0.032	0.020	B557580
Dissolved Sulphur (S)	mg/L	8.3	B557580	8.4	8.4	8.3	0.20	B557580
Dissolved Thallium (Tl)	mg/L	<0.00020	B556626	<0.00020	<0.00020	<0.00020	0.00020	B556614
Dissolved Tin (Sn)	mg/L	<0.0010	B556626	<0.0010	<0.0010	<0.0010	0.0010	B556614
Dissolved Titanium (Ti)	mg/L	<0.0010	B556626	<0.0010	<0.0010	<0.0010	0.0010	B556614
Dissolved Uranium (U)	mg/L	<0.00010	B556626	<0.00010	<0.00010	<0.00010	0.00010	B556614
Dissolved Vanadium (V)	mg/L	<0.0010	B556626	<0.0010	<0.0010	<0.0010	0.0010	B556614
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG732		CXG734	CXG736	CXG739		
Sampling Date		2024/10/02 14:10		2024/10/02 14:15	2024/10/02 13:50	2024/10/02 13:55		
COC Number		C#737331-01-01		C#737331-01-01	C#737331-01-01	C#737331-01-01		
	UNITS	**CL-7 SFC**	**QC Batch**	**CL-7 BTM**	**CL-8 SFC**	**CL-8 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.010	B556626	0.0098	0.011	0.010	0.0030	B556614
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG740	CXG741		CXG742		CXG743		
Sampling Date		2024/10/02 14:20	2024/10/02 14:25		2024/10/02 13:40		2024/10/02 13:45		
COC Number		C#737331-01-01	C#737331-01-01		C#737331-01-01		C#737331-01-01		
	UNITS	CL-2 SFC	CL-2 BTM	QC Batch	CL-4 SFC	QC Batch	CL-4 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	<0.020	<0.020	B554570	0.020	B554570	0.024	0.020	B554931
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.015	0.014	B556614	0.014	B556626	0.017	0.0030	B556614
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B556614	<0.00060	B556626	<0.00060	0.00060	B556614
Dissolved Arsenic (As)	mg/L	0.00037	0.00038	B556614	0.00040	B556626	0.00043	0.00020	B556614
Dissolved Barium (Ba)	mg/L	<0.010	<0.010	B557916	<0.010	B557580	<0.010	0.010	B557916
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B556614	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Boron (B)	mg/L	<0.020	<0.020	B557916	<0.020	B557580	<0.020	0.020	B557916
Dissolved Calcium (Ca)	mg/L	15	15	B557916	15	B557580	14	0.30	B557916
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B556614	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B556614	<0.00030	B556626	<0.00030	0.00030	B556614
Dissolved Copper (Cu)	mg/L	0.0055	0.0056	B556614	0.0053	B556626	0.0059	0.0010	B556614
Dissolved Iron (Fe)	mg/L	0.28	0.34	B557916	0.24	B557580	0.23	0.060	B557916
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B556614	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B557916	<0.020	B557580	<0.020	0.020	B557916
Dissolved Magnesium (Mg)	mg/L	3.9	3.9	B557916	4.0	B557580	3.8	0.20	B557916
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	B557916	<0.0040	B557580	<0.0040	0.0040	B557916
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B556614	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Nickel (Ni)	mg/L	<0.00050	<0.00050	B556614	<0.00050	B556626	<0.00050	0.00050	B556614
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B557916	<0.10	B557580	<0.10	0.10	B557916
Dissolved Potassium (K)	mg/L	1.7	1.7	B557916	1.7	B557580	1.7	0.30	B557916
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B556614	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Silicon (Si)	mg/L	0.79	0.79	B557916	0.72	B557580	0.73	0.50	B557916
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B556614	<0.00010	B556626	<0.00010	0.00010	B556614
Dissolved Sodium (Na)	mg/L	2.2	2.3	B557916	2.3	B557580	2.2	0.50	B557916
Dissolved Strontium (Sr)	mg/L	0.031	0.032	B557916	0.032	B557580	0.031	0.020	B557916
Dissolved Sulphur (S)	mg/L	8.4	8.2	B557916	7.9	B557580	7.7	0.20	B557916
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B556614	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B556614	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B556614	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B556614	<0.00010	B556626	<0.00010	0.00010	B556614
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B556614	<0.0010	B556626	<0.0010	0.0010	B556614

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG740	CXG741		CXG742		CXG743		
Sampling Date		2024/10/02 14:20	2024/10/02 14:25		2024/10/02 13:40		2024/10/02 13:45		
COC Number		C#737331-01-01	C#737331-01-01		C#737331-01-01		C#737331-01-01		
	UNITS	**CL-2 SFC**	**CL-2 BTM**	**QC Batch**	**CL-4 SFC**	**QC Batch**	**CL-4 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.0091	0.0093	B556614	0.0092	B556626	0.010	0.0030	B556614
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG744		CXG745	CXG746		CXG747		
Sampling Date		2024/10/02 13:30		2024/10/02 13:35	2024/10/02 13:20		2024/10/02 13:25		
COC Number		C#737331-01-01		C#737331-01-01	C#737331-01-01		C#737331-01-01		
	UNITS	CL-5 SFC	QC Batch	CL-5 BTM	CL-6 SFC	QC Batch	CL-6 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	<0.020	B554931	0.022	<0.020	B554931	<0.020	0.020	B554931
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.014	B556614	0.016	0.013	B556626	0.011	0.0030	B556614
Dissolved Antimony (Sb)	mg/L	<0.00060	B556614	<0.00060	<0.00060	B556626	<0.00060	0.00060	B556614
Dissolved Arsenic (As)	mg/L	0.00050	B556614	0.00041	0.00043	B556626	0.00052	0.00020	B556614
Dissolved Barium (Ba)	mg/L	<0.010	B557916	<0.010	<0.010	B557580	<0.010	0.010	B557916
Dissolved Beryllium (Be)	mg/L	<0.0010	B556614	<0.0010	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Boron (B)	mg/L	<0.020	B557916	<0.020	<0.020	B557580	<0.020	0.020	B557916
Dissolved Calcium (Ca)	mg/L	14	B557916	14	13	B557580	12	0.30	B557916
Dissolved Chromium (Cr)	mg/L	<0.0010	B556614	<0.0010	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Cobalt (Co)	mg/L	<0.00030	B556614	<0.00030	<0.00030	B556626	<0.00030	0.00030	B556614
Dissolved Copper (Cu)	mg/L	0.0051	B556614	0.0054	0.0039	B556626	0.0040	0.0010	B556614
Dissolved Iron (Fe)	mg/L	0.23	B557916	0.20	0.087	B557580	0.086	0.060	B557916
Dissolved Lead (Pb)	mg/L	<0.00020	B556614	<0.00020	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Lithium (Li)	mg/L	<0.020	B557916	<0.020	<0.020	B557580	<0.020	0.020	B557916
Dissolved Magnesium (Mg)	mg/L	3.8	B557916	3.9	3.8	B557580	3.6	0.20	B557916
Dissolved Manganese (Mn)	mg/L	<0.0040	B557916	<0.0040	<0.0040	B557580	<0.0040	0.0040	B557916
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B556614	<0.00020	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Nickel (Ni)	mg/L	<0.00050	B556614	<0.00050	<0.00050	B556626	<0.00050	0.00050	B556614
Dissolved Phosphorus (P)	mg/L	<0.10	B557916	<0.10	<0.10	B557580	<0.10	0.10	B557916
Dissolved Potassium (K)	mg/L	1.7	B557916	1.7	1.6	B557580	1.6	0.30	B557916
Dissolved Selenium (Se)	mg/L	<0.00020	B556614	<0.00020	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Silicon (Si)	mg/L	0.65	B557916	0.72	0.51	B557580	0.55	0.50	B557916
Dissolved Silver (Ag)	mg/L	<0.00010	B556614	<0.00010	<0.00010	B556626	<0.00010	0.00010	B556614
Dissolved Sodium (Na)	mg/L	2.2	B557916	2.3	2.3	B557580	2.2	0.50	B557916
Dissolved Strontium (Sr)	mg/L	0.031	B557916	0.031	0.030	B557580	0.030	0.020	B557916
Dissolved Sulphur (S)	mg/L	7.2	B557916	7.4	5.8	B557580	5.7	0.20	B557916
Dissolved Thallium (Tl)	mg/L	<0.00020	B556614	<0.00020	<0.00020	B556626	<0.00020	0.00020	B556614
Dissolved Tin (Sn)	mg/L	<0.0010	B556614	<0.0010	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Titanium (Ti)	mg/L	<0.0010	B556614	<0.0010	<0.0010	B556626	<0.0010	0.0010	B556614
Dissolved Uranium (U)	mg/L	<0.00010	B556614	<0.00010	<0.00010	B556626	<0.00010	0.00010	B556614
Dissolved Vanadium (V)	mg/L	<0.0010	B556614	<0.0010	<0.0010	B556626	<0.0010	0.0010	B556614

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG744		CXG745	CXG746		CXG747		
Sampling Date		2024/10/02 13:30		2024/10/02 13:35	2024/10/02 13:20		2024/10/02 13:25		
COC Number		C#737331-01-01		C#737331-01-01	C#737331-01-01		C#737331-01-01		
	UNITS	**CL-5 SFC**	**QC Batch**	**CL-5 BTM**	**CL-6 SFC**	**QC Batch**	**CL-6 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.0082	B556614	0.0092	0.0068	B556626	0.0068	0.0030	B556614
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG748		CXG749		
Sampling Date		2024/10/02 12:00		2024/10/02 12:00		
COC Number		C#737331-01-01		C#737331-01-01		
	UNITS	SW-131	QC Batch	SW-132	RDL	QC Batch
Elements						
Dissolved Cadmium (Cd)	ug/L	<0.020	B554931	0.26	0.020	B554931
Lab Filtered Elements						
Dissolved Aluminum (Al)	mg/L	0.015	B556614	0.024	0.0030	B556626
Dissolved Antimony (Sb)	mg/L	<0.00060	B556614	<0.00060	0.00060	B556626
Dissolved Arsenic (As)	mg/L	0.00042	B556614	0.00027	0.00020	B556626
Dissolved Barium (Ba)	mg/L	<0.010	B557916	0.010	0.010	B557580
Dissolved Beryllium (Be)	mg/L	<0.0010	B556614	<0.0010	0.0010	B556626
Dissolved Boron (B)	mg/L	<0.020	B557916	<0.020	0.020	B557580
Dissolved Calcium (Ca)	mg/L	14	B557916	39	0.30	B557580
Dissolved Chromium (Cr)	mg/L	<0.0010	B556614	<0.0010	0.0010	B556626
Dissolved Cobalt (Co)	mg/L	<0.00030	B556614	<0.00030	0.00030	B556626
Dissolved Copper (Cu)	mg/L	0.0053	B556614	0.0093	0.0010	B556626
Dissolved Iron (Fe)	mg/L	0.22	B557916	3.4	0.060	B557580
Dissolved Lead (Pb)	mg/L	<0.00020	B556614	<0.00020	0.00020	B556626
Dissolved Lithium (Li)	mg/L	<0.020	B557916	<0.020	0.020	B557580
Dissolved Magnesium (Mg)	mg/L	4.0	B557916	7.3	0.20	B557580
Dissolved Manganese (Mn)	mg/L	<0.0040	B557916	0.039	0.0040	B557580
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B556614	<0.00020	0.00020	B556626
Dissolved Nickel (Ni)	mg/L	<0.00050	B556614	0.00065	0.00050	B556626
Dissolved Phosphorus (P)	mg/L	<0.10	B557916	<0.10	0.10	B557580
Dissolved Potassium (K)	mg/L	1.8	B557916	3.3	0.30	B557580
Dissolved Selenium (Se)	mg/L	<0.00020	B556614	<0.00020	0.00020	B556626
Dissolved Silicon (Si)	mg/L	0.70	B557916	0.67	0.50	B557580
Dissolved Silver (Ag)	mg/L	<0.00010	B556614	<0.00010	0.00010	B556626
Dissolved Sodium (Na)	mg/L	2.3	B557916	2.9	0.50	B557580
Dissolved Strontium (Sr)	mg/L	0.032	B557916	0.047	0.020	B557580
Dissolved Sulphur (S)	mg/L	7.5	B557916	38	0.20	B557580
Dissolved Thallium (Tl)	mg/L	<0.00020	B556614	<0.00020	0.00020	B556626
Dissolved Tin (Sn)	mg/L	<0.0010	B556614	<0.0010	0.0010	B556626
Dissolved Titanium (Ti)	mg/L	<0.0010	B556614	<0.0010	0.0010	B556626
Dissolved Uranium (U)	mg/L	<0.00010	B556614	<0.00010	0.00010	B556626
Dissolved Vanadium (V)	mg/L	<0.0010	B556614	<0.0010	0.0010	B556626
RDL = Reportable Detection Limit						

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CXG748		CXG749		
Sampling Date		2024/10/02 12:00		2024/10/02 12:00		
COC Number		C#737331-01-01		C#737331-01-01		
	UNITS	**SW-131**	**QC Batch**	**SW-132**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.0094	B556614	0.070	0.0030	B556626
RDL = Reportable Detection Limit						

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG714	CXG715	CXG716			CXG717		
Sampling Date		2024/10/02 16:20	2024/10/02 14:40	2024/10/02 14:35			2024/10/02 14:45		
COC Number		C#737331-01-01	C#737331-01-01	C#737331-01-01			C#737331-01-01		
	UNITS	SC-1	SB-1	SB-2	RDL	QC Batch	CB-1	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.77	0.29	0.32	0.020	B554802	0.31	0.020	B554802
Total Aluminum (Al)	mg/L	0.056	0.12	0.13	0.0030	B558345	0.13	0.0030	B558364
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	0.00060	B558345	<0.00060	0.00060	B558364
Total Arsenic (As)	mg/L	0.00041	0.00046	0.00044	0.00020	B558345	0.00040	0.00020	B558364
Total Barium (Ba)	mg/L	<0.010	0.012	0.012	0.010	B558338	0.011	0.010	B558354
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	0.020	B558338	<0.020	0.020	B558354
Total Calcium (Ca)	mg/L	9.6	32	33	0.30	B558338	30	0.30	B558354
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364
Total Cobalt (Co)	mg/L	0.00030	<0.00030	<0.00030	0.00030	B558345	<0.00030	0.00030	B558364
Total Copper (Cu)	mg/L	0.033	0.015	0.014	0.0010	B558345	0.014	0.0010	B558364
Total Iron (Fe)	mg/L	0.26	6.5	7.5	0.060	B558338	6.6	0.080	B558354
Total Lead (Pb)	mg/L	<0.00020	0.00050	0.00042	0.00020	B558345	0.00052	0.00020	B558364
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	0.020	B558338	<0.020	0.020	B558354
Total Magnesium (Mg)	mg/L	3.0	5.8	6.0	0.20	B558338	5.9	0.20	B558354
Total Manganese (Mn)	mg/L	0.035	0.057	0.061	0.0040	B558338	0.057	0.0040	B558354
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B558345	<0.00020	0.00020	B558364
Total Nickel (Ni)	mg/L	0.00083	0.0012	0.0011	0.00050	B558345	0.0012	0.00050	B558364
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	0.10	B558338	<0.10	0.10	B558354
Total Potassium (K)	mg/L	1.7	3.1	3.2	0.30	B558338	2.9	0.30	B558354
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B558345	<0.00020	0.00020	B558364
Total Silicon (Si)	mg/L	1.2	0.91	0.92	0.50	B558338	1.0	0.50	B558354
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B558345	<0.00010	0.00010	B558364
Total Sodium (Na)	mg/L	3.3	2.8	2.9	0.50	B558338	2.6	0.50	B558354
Total Strontium (Sr)	mg/L	0.024	0.042	0.043	0.020	B558338	0.037	0.020	B558354
Total Sulphur (S)	mg/L	3.3	29	31	0.20	B558338	31	0.20	B558354
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B558345	<0.00020	0.00020	B558364
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364
Total Titanium (Ti)	mg/L	0.0038	0.0075	0.0076	0.0010	B558345	0.0073	0.0010	B558364
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B558345	<0.00010	0.00010	B558364
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG714	CXG715	CXG716			CXG717		
Sampling Date		2024/10/02 16:20	2024/10/02 14:40	2024/10/02 14:35			2024/10/02 14:45		
COC Number		C#737331-01-01	C#737331-01-01	C#737331-01-01			C#737331-01-01		
	UNITS	**SC-1**	**SB-1**	**SB-2**	**RDL**	**QC Batch**	**CB-1**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.33	0.089	0.088	0.0030	B558345	0.091	0.0030	B558364
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG718	CXG719			CXG720		
Sampling Date		2024/10/02 14:50	2024/10/02 14:55			2024/10/02 15:00		
COC Number		C#737331-01-01	C#737331-01-01			C#737331-01-01		
	UNITS	CB-2	EB-1	RDL	QC Batch	EB-2	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.32	0.52	0.020	B554802	0.64	0.020	B554802
Total Aluminum (Al)	mg/L	0.12	0.11	0.0030	B558345	0.26	0.0030	B558364
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B558345	<0.00060	0.00060	B558364
Total Arsenic (As)	mg/L	0.00039	0.00034	0.00020	B558345	0.00065	0.00020	B558364
Total Barium (Ba)	mg/L	0.012	0.013	0.010	B558338	0.013	0.010	B558354
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364
Total Boron (B)	mg/L	<0.020	<0.020	0.020	B558338	0.022	0.020	B558354
Total Calcium (Ca)	mg/L	32	39	0.30	B558338	38	0.30	B558354
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364
Total Cobalt (Co)	mg/L	<0.00030	0.00033	0.00030	B558345	0.00044	0.00030	B558364
Total Copper (Cu)	mg/L	0.015	0.023	0.0010	B558345	0.024	0.0010	B558364
Total Iron (Fe)	mg/L	6.4	3.4	0.060	B558338	3.3	0.080	B558354
Total Lead (Pb)	mg/L	0.00057	0.00050	0.00020	B558345	0.00038	0.00020	B558364
Total Lithium (Li)	mg/L	<0.020	<0.020	0.020	B558338	<0.020	0.020	B558354
Total Magnesium (Mg)	mg/L	5.9	6.8	0.20	B558338	6.8	0.20	B558354
Total Manganese (Mn)	mg/L	0.054	0.033	0.0040	B558338	0.029	0.0040	B558354
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	0.00020	B558345	<0.00020	0.00020	B558364
Total Nickel (Ni)	mg/L	0.0013	0.0015	0.00050	B558345	0.0023	0.00050	B558364
Total Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B558338	<0.10	0.10	B558354
Total Potassium (K)	mg/L	3.1	3.4	0.30	B558338	3.2	0.30	B558354
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B558345	0.00021	0.00020	B558364
Total Silicon (Si)	mg/L	0.91	0.61	0.50	B558338	0.86	0.50	B558354
Total Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B558345	<0.00010	0.00010	B558364
Total Sodium (Na)	mg/L	2.8	3.0	0.50	B558338	2.8	0.50	B558354
Total Strontium (Sr)	mg/L	0.043	0.048	0.020	B558338	0.042	0.020	B558354
Total Sulphur (S)	mg/L	30	37	0.20	B558338	38	0.20	B558354
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B558345	<0.00020	0.00020	B558364
Total Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364
Total Titanium (Ti)	mg/L	0.0071	0.0045	0.0010	B558345	0.012	0.0010	B558364
Total Uranium (U)	mg/L	<0.00010	<0.00010	0.00010	B558345	<0.00010	0.00010	B558364
Total Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG718	CXG719			CXG720		
Sampling Date		2024/10/02 14:50	2024/10/02 14:55			2024/10/02 15:00		
COC Number		C#737331-01-01	C#737331-01-01			C#737331-01-01		
	UNITS	**CB-2**	**EB-1**	**RDL**	**QC Batch**	**EB-2**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.088	0.15	0.0030	B558345	0.19	0.0030	B558364
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG721			CXG723	CXG725	CXG727		
Sampling Date		2024/10/02 15:10			2024/10/02 15:05	2024/10/02 15:15	2024/10/02 14:00		
COC Number		C#737331-01-01			C#737331-01-01	C#737331-01-01	C#737331-01-01		
	UNITS	NB-1	RDL	QC Batch	NB-2	CLD	CL-3 SFC	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.33	0.020	B554802	0.40	0.37	0.043	0.020	B554802
Total Aluminum (Al)	mg/L	0.11	0.0030	B558345	0.12	0.13	0.054	0.0030	B558364
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B558345	<0.00060	<0.00060	<0.00060	0.00060	B558364
Total Arsenic (As)	mg/L	0.00040	0.00020	B558345	0.00043	0.00048	0.00054	0.00020	B558364
Total Barium (Ba)	mg/L	0.011	0.010	B558338	0.010	0.010	<0.010	0.010	B558354
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B558345	<0.0010	<0.0010	<0.0010	0.0010	B558364
Total Boron (B)	mg/L	<0.020	0.020	B558338	<0.020	<0.020	<0.020	0.020	B558354
Total Calcium (Ca)	mg/L	37	0.30	B558338	35	35	13	0.30	B558354
Total Chromium (Cr)	mg/L	0.012	0.0010	B558345	0.11	<0.0010	<0.0010	0.0010	B558364
Total Cobalt (Co)	mg/L	0.00037	0.00030	B558345	0.0014	0.00032	<0.00030	0.00030	B558364
Total Copper (Cu)	mg/L	0.018	0.0010	B558345	0.021	0.015	0.0069	0.0010	B558364
Total Iron (Fe)	mg/L	5.3	0.060	B558338	6.2	5.6	0.65	0.080	B558354
Total Lead (Pb)	mg/L	0.00050	0.00020	B558345	0.0023	0.00034	0.0044	0.00020	B558364
Total Lithium (Li)	mg/L	<0.020	0.020	B558338	<0.020	<0.020	<0.020	0.020	B558354
Total Magnesium (Mg)	mg/L	6.5	0.20	B558338	6.6	6.5	3.6	0.20	B558354
Total Manganese (Mn)	mg/L	0.049	0.0040	B558338	0.059	0.050	0.026	0.0040	B558354
Total Molybdenum (Mo)	mg/L	0.0017	0.00020	B558345	0.013	<0.00020	0.00078	0.00020	B558364
Total Nickel (Ni)	mg/L	0.0051	0.00050	B558345	0.042	0.0012	0.0022	0.00050	B558364
Total Phosphorus (P)	mg/L	<0.10	0.10	B558338	<0.10	<0.10	<0.10	0.10	B558354
Total Potassium (K)	mg/L	3.2	0.30	B558338	3.0	2.9	1.6	0.30	B558354
Total Selenium (Se)	mg/L	<0.00020	0.00020	B558345	0.00020	<0.00020	<0.00020	0.00020	B558364
Total Silicon (Si)	mg/L	0.80	0.50	B558338	0.84	0.85	0.89	0.50	B558354
Total Silver (Ag)	mg/L	<0.00010	0.00010	B558345	0.00019	<0.00010	<0.00010	0.00010	B558364
Total Sodium (Na)	mg/L	2.7	0.50	B558338	2.5	2.5	2.0	0.50	B558354
Total Strontium (Sr)	mg/L	0.045	0.020	B558338	0.039	0.038	0.027	0.020	B558354
Total Sulphur (S)	mg/L	34	0.20	B558338	35	35	7.7	0.20	B558354
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B558345	<0.00020	<0.00020	<0.00020	0.00020	B558364
Total Tin (Sn)	mg/L	<0.0010	0.0010	B558345	<0.0010	<0.0010	<0.0010	0.0010	B558364
Total Titanium (Ti)	mg/L	0.0047	0.0010	B558345	0.0053	0.0069	0.0023	0.0010	B558364
Total Uranium (U)	mg/L	<0.00010	0.00010	B558345	<0.00010	<0.00010	<0.00010	0.00010	B558364
Total Vanadium (V)	mg/L	<0.0010	0.0010	B558345	0.0023	<0.0010	<0.0010	0.0010	B558364

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG721			CXG723	CXG725	CXG727		
Sampling Date		2024/10/02 15:10			2024/10/02 15:05	2024/10/02 15:15	2024/10/02 14:00		
COC Number		C#737331-01-01			C#737331-01-01	C#737331-01-01	C#737331-01-01		
	UNITS	**NB-1**	**RDL**	**QC Batch**	**NB-2**	**CLD**	**CL-3 SFC**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.10	0.0030	B558345	0.11	0.11	0.015	0.0030	B558364
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG730			CXG732		CXG734		
Sampling Date		2024/10/02 14:05			2024/10/02 14:10		2024/10/02 14:15		
COC Number		C#737331-01-01			C#737331-01-01		C#737331-01-01		
	UNITS	CL-3 BTM	RDL	QC Batch	CL-7 SFC	QC Batch	CL-7 BTM	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.064	0.020	B554802	0.046	B554802	0.041	0.020	B554802
Total Aluminum (Al)	mg/L	0.075	0.0030	B558364	0.055	B557707	0.054	0.0030	B558345
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B558364	<0.00060	B557707	<0.00060	0.00060	B558345
Total Arsenic (As)	mg/L	0.00052	0.00020	B558364	0.00047	B557707	0.00041	0.00020	B558345
Total Barium (Ba)	mg/L	<0.010	0.010	B558354	0.010	B557700	<0.010	0.010	B558338
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B558364	<0.0010	B557707	<0.0010	0.0010	B558345
Total Boron (B)	mg/L	<0.020	0.020	B558354	<0.020	B557700	<0.020	0.020	B558338
Total Calcium (Ca)	mg/L	13	0.30	B558354	14	B557700	14	0.30	B558338
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B558364	<0.0010	B557707	<0.0010	0.0010	B558345
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B558364	<0.00030	B557707	<0.00030	0.00030	B558345
Total Copper (Cu)	mg/L	0.011	0.0010	B558364	0.0083	B557707	0.0085	0.0010	B558345
Total Iron (Fe)	mg/L	0.65	0.080	B558354	0.64	B557700	0.63	0.060	B558338
Total Lead (Pb)	mg/L	<0.00020	0.00020	B558364	0.00045	B557707	0.00035	0.00020	B558345
Total Lithium (Li)	mg/L	<0.020	0.020	B558354	<0.020	B557700	<0.020	0.020	B558338
Total Magnesium (Mg)	mg/L	3.6	0.20	B558354	3.6	B557700	3.5	0.20	B558338
Total Manganese (Mn)	mg/L	0.025	0.0040	B558354	0.026	B557700	0.026	0.0040	B558338
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B558364	<0.00020	B557707	<0.00020	0.00020	B558345
Total Nickel (Ni)	mg/L	0.00088	0.00050	B558364	0.00077	B557707	0.00074	0.00050	B558345
Total Phosphorus (P)	mg/L	<0.10	0.10	B558354	<0.10	B557700	<0.10	0.10	B558338
Total Potassium (K)	mg/L	1.6	0.30	B558354	1.7	B557700	1.7	0.30	B558338
Total Selenium (Se)	mg/L	<0.00020	0.00020	B558364	<0.00020	B557707	<0.00020	0.00020	B558345
Total Silicon (Si)	mg/L	0.91	0.50	B558354	0.85	B557700	0.81	0.50	B558338
Total Silver (Ag)	mg/L	<0.00010	0.00010	B558364	<0.00010	B557707	<0.00010	0.00010	B558345
Total Sodium (Na)	mg/L	2.0	0.50	B558354	2.2	B557700	2.1	0.50	B558338
Total Strontium (Sr)	mg/L	0.027	0.020	B558354	0.030	B557700	0.030	0.020	B558338
Total Sulphur (S)	mg/L	7.7	0.20	B558354	7.6	B557700	7.5	0.20	B558338
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B558364	<0.00020	B557707	<0.00020	0.00020	B558345
Total Tin (Sn)	mg/L	<0.0010	0.0010	B558364	<0.0010	B557707	<0.0010	0.0010	B558345
Total Titanium (Ti)	mg/L	0.0022	0.0010	B558364	0.0019	B557707	0.0020	0.0010	B558345
Total Uranium (U)	mg/L	<0.00010	0.00010	B558364	<0.00010	B557707	<0.00010	0.00010	B558345
Total Vanadium (V)	mg/L	<0.0010	0.0010	B558364	<0.0010	B557707	<0.0010	0.0010	B558345

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG730			CXG732		CXG734		
Sampling Date		2024/10/02 14:05			2024/10/02 14:10		2024/10/02 14:15		
COC Number		C#737331-01-01			C#737331-01-01		C#737331-01-01		
	UNITS	**CL-3 BTM**	**RDL**	**QC Batch**	**CL-7 SFC**	**QC Batch**	**CL-7 BTM**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.023	0.0030	B558364	0.018	B557707	0.016	0.0030	B558345
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG736	CXG739	CXG740		CXG741		
Sampling Date		2024/10/02 13:50	2024/10/02 13:55	2024/10/02 14:20		2024/10/02 14:25		
COC Number		C#737331-01-01	C#737331-01-01	C#737331-01-01		C#737331-01-01		
	UNITS	CL-8 SFC	CL-8 BTM	CL-2 SFC	QC Batch	CL-2 BTM	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.050	0.047	0.051	B554802	0.031	0.020	B554802
Total Aluminum (Al)	mg/L	0.061	0.060	0.053	B558345	0.052	0.0030	B558364
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	B558345	<0.00060	0.00060	B558364
Total Arsenic (As)	mg/L	0.00062	0.00047	0.00038	B558345	0.00036	0.00020	B558364
Total Barium (Ba)	mg/L	0.011	0.010	<0.010	B558338	0.011	0.010	B558354
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	B558345	<0.0010	0.0010	B558364
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	B558338	<0.020	0.020	B558354
Total Calcium (Ca)	mg/L	13	14	14	B558338	14	0.30	B558354
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	B558345	<0.0010	0.0010	B558364
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	B558345	<0.00030	0.00030	B558364
Total Copper (Cu)	mg/L	0.010	0.0074	0.0078	B558345	0.0065	0.0010	B558364
Total Iron (Fe)	mg/L	0.57	0.60	0.58	B558338	0.76 (1)	0.060	B558354
Total Lead (Pb)	mg/L	0.00021	<0.00020	<0.00020	B558345	<0.00020	0.00020	B558364
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	B558338	<0.020	0.020	B558354
Total Magnesium (Mg)	mg/L	3.4	3.6	3.4	B558338	3.8	0.20	B558354
Total Manganese (Mn)	mg/L	0.023	0.024	0.035	B558338	0.040 (1)	0.0040	B558354
Total Molybdenum (Mo)	mg/L	0.00031	<0.00020	<0.00020	B558345	<0.00020	0.00020	B558364
Total Nickel (Ni)	mg/L	0.00070	0.00059	0.00070	B558345	<0.00050	0.00050	B558364
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	B558338	<0.10	0.10	B558354
Total Potassium (K)	mg/L	1.6	1.7	1.7	B558338	1.7	0.30	B558354
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	B558345	<0.00020	0.00020	B558364
Total Silicon (Si)	mg/L	0.81	0.81	0.80	B558338	1.0	0.50	B558354
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	B558345	<0.00010	0.00010	B558364
Total Sodium (Na)	mg/L	2.1	2.2	2.1	B558338	2.2	0.50	B558354
Total Strontium (Sr)	mg/L	0.029	0.030	0.029	B558338	0.029	0.020	B558354
Total Sulphur (S)	mg/L	7.3	8.0	7.3	B558338	8.1	0.20	B558354
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	B558345	<0.00020	0.00020	B558364
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	B558345	<0.0010	0.0010	B558364
Total Titanium (Ti)	mg/L	0.0029	0.0025	0.0021	B558345	0.0026	0.0010	B558364
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	B558345	<0.00010	0.00010	B558364

RDL = Reportable Detection Limit

(1) Duplicate exceeds acceptance criteria due to sample non homogeneity.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG736	CXG739	CXG740		CXG741		
Sampling Date		2024/10/02 13:50	2024/10/02 13:55	2024/10/02 14:20		2024/10/02 14:25		
COC Number		C#737331-01-01	C#737331-01-01	C#737331-01-01		C#737331-01-01		
	UNITS	**CL-8 SFC**	**CL-8 BTM**	**CL-2 SFC**	**QC Batch**	**CL-2 BTM**	**RDL**	**QC Batch**
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	B558345	<0.0010	0.0010	B558364
Total Zinc (Zn)	mg/L	0.020	0.018	0.017	B558345	0.011	0.0030	B558364
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG741			CXG742			CXG743		
Sampling Date		2024/10/02 14:25			2024/10/02 13:40			2024/10/02 13:45		
COC Number		C#737331-01-01			C#737331-01-01			C#737331-01-01		
	UNITS	CL-2 BTM Lab-Dup	RDL	QC Batch	CL-4 SFC	RDL	QC Batch	CL-4 BTM	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L				0.053	0.020	B554802	0.040	0.020	B554802
Total Aluminum (Al)	mg/L	0.050	0.0030	B558364	0.068	0.0030	B558364	0.052	0.0030	B558345
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B558364	<0.00060	0.00060	B558364	<0.00060	0.00060	B558345
Total Arsenic (As)	mg/L	0.00037	0.00020	B558364	0.00057	0.00020	B558364	0.00050	0.00020	B558345
Total Barium (Ba)	mg/L	0.011	0.010	B558354	<0.010	0.010	B558354	<0.010	0.010	B558338
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B558364	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345
Total Boron (B)	mg/L	<0.020	0.020	B558354	<0.020	0.020	B558354	<0.020	0.020	B558338
Total Calcium (Ca)	mg/L	15	0.30	B558354	13	0.30	B558354	13	0.30	B558338
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B558364	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B558364	<0.00030	0.00030	B558364	<0.00030	0.00030	B558345
Total Copper (Cu)	mg/L	0.0079	0.0010	B558364	0.0098	0.0010	B558364	0.0070	0.0010	B558345
Total Iron (Fe)	mg/L	0.76	0.060	B558354	0.45	0.080	B558354	0.44	0.060	B558338
Total Lead (Pb)	mg/L	0.00025	0.00020	B558364	0.00063	0.00020	B558364	0.00039	0.00020	B558345
Total Lithium (Li)	mg/L	<0.020	0.020	B558354	<0.020	0.020	B558354	<0.020	0.020	B558338
Total Magnesium (Mg)	mg/L	4.0	0.20	B558354	3.4	0.20	B558354	3.4	0.20	B558338
Total Manganese (Mn)	mg/L	0.043	0.0040	B558354	0.019	0.0040	B558354	0.019	0.0040	B558338
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B558364	<0.00020	0.00020	B558364	<0.00020	0.00020	B558345
Total Nickel (Ni)	mg/L	0.00060	0.00050	B558364	0.00091	0.00050	B558364	0.00064	0.00050	B558345
Total Phosphorus (P)	mg/L	<0.10	0.10	B558354	<0.10	0.10	B558354	<0.10	0.10	B558338
Total Potassium (K)	mg/L	1.9	0.30	B558354	1.5	0.30	B558354	1.6	0.30	B558338
Total Selenium (Se)	mg/L	<0.00020	0.00020	B558364	<0.00020	0.00020	B558364	<0.00020	0.00020	B558345
Total Silicon (Si)	mg/L	1.0	0.50	B558354	0.82	0.50	B558354	0.76	0.50	B558338
Total Silver (Ag)	mg/L	<0.00010	0.00010	B558364	<0.00010	0.00010	B558364	<0.00010	0.00010	B558345
Total Sodium (Na)	mg/L	2.4	0.50	B558354	2.0	0.50	B558354	2.1	0.50	B558338
Total Strontium (Sr)	mg/L	0.031	0.020	B558354	0.026	0.020	B558354	0.029	0.020	B558338
Total Sulphur (S)	mg/L	8.6	0.20	B558354	7.1	0.20	B558354	7.0	0.20	B558338
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B558364	<0.00020	0.00020	B558364	<0.00020	0.00020	B558345
Total Tin (Sn)	mg/L	<0.0010	0.0010	B558364	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345
Total Titanium (Ti)	mg/L	0.0017	0.0010	B558364	0.0022	0.0010	B558364	0.0022	0.0010	B558345
Total Uranium (U)	mg/L	<0.00010	0.00010	B558364	<0.00010	0.00010	B558364	<0.00010	0.00010	B558345

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG741			CXG742			CXG743		
Sampling Date		2024/10/02 14:25			2024/10/02 13:40			2024/10/02 13:45		
COC Number		C#737331-01-01			C#737331-01-01			C#737331-01-01		
	UNITS	CL-2 BTM Lab-Dup	RDL	QC Batch	CL-4 SFC	RDL	QC Batch	CL-4 BTM	RDL	QC Batch
Total Vanadium (V)	mg/L	<0.0010	0.0010	B558364	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345
Total Zinc (Zn)	mg/L	0.012	0.0030	B558364	0.019	0.0030	B558364	0.015	0.0030	B558345

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG744			CXG745			CXG746		
Sampling Date		2024/10/02 13:30			2024/10/02 13:35			2024/10/02 13:20		
COC Number		C#737331-01-01			C#737331-01-01			C#737331-01-01		
	UNITS	CL-5 SFC	RDL	QC Batch	CL-5 BTM	RDL	QC Batch	CL-6 SFC	RDL	QC Batch
Elements										
Total Cadmium (Cd)	ug/L	0.034	0.020	B554802	0.041	0.020	B554802	0.028	0.020	B554802
Total Aluminum (Al)	mg/L	0.062	0.0030	B558345	0.067	0.0030	B558364	0.076	0.0030	B558345
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B558345	<0.00060	0.00060	B558364	<0.00060	0.00060	B558345
Total Arsenic (As)	mg/L	0.00045	0.00020	B558345	0.00056	0.00020	B558364	0.00060	0.00020	B558345
Total Barium (Ba)	mg/L	0.010	0.010	B558338	<0.010	0.010	B558354	<0.010	0.010	B558338
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345
Total Boron (B)	mg/L	<0.020	0.020	B558338	<0.020	0.020	B558354	<0.020	0.020	B558338
Total Calcium (Ca)	mg/L	13	0.30	B558338	12	0.30	B558354	12	0.30	B558338
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B558345	<0.00030	0.00030	B558364	<0.00030	0.00030	B558345
Total Copper (Cu)	mg/L	0.0061	0.0010	B558345	0.0078	0.0010	B558364	0.0062	0.0010	B558345
Total Iron (Fe)	mg/L	0.35	0.060	B558338	0.38	0.080	B558354	0.23	0.060	B558338
Total Lead (Pb)	mg/L	0.00022	0.00020	B558345	<0.00020	0.00020	B558364	<0.00020	0.00020	B558345
Total Lithium (Li)	mg/L	<0.020	0.020	B558338	<0.020	0.020	B558354	<0.020	0.020	B558338
Total Magnesium (Mg)	mg/L	3.4	0.20	B558338	3.4	0.20	B558354	3.2	0.20	B558338
Total Manganese (Mn)	mg/L	0.017	0.0040	B558338	0.017	0.0040	B558354	0.021	0.0040	B558338
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B558345	<0.00020	0.00020	B558364	<0.00020	0.00020	B558345
Total Nickel (Ni)	mg/L	0.00064	0.00050	B558345	0.00067	0.00050	B558364	0.00069	0.00050	B558345
Total Phosphorus (P)	mg/L	<0.10	0.10	B558338	<0.10	0.10	B558354	<0.10	0.10	B558338
Total Potassium (K)	mg/L	1.6	0.30	B558338	1.5	0.30	B558354	1.5	0.30	B558338
Total Selenium (Se)	mg/L	<0.00020	0.00020	B558345	<0.00020	0.00020	B558364	<0.00020	0.00020	B558345
Total Silicon (Si)	mg/L	0.72	0.50	B558338	0.90	0.50	B558354	0.63	0.50	B558338
Total Silver (Ag)	mg/L	<0.00010	0.00010	B558345	<0.00010	0.00010	B558364	<0.00010	0.00010	B558345
Total Sodium (Na)	mg/L	2.1	0.50	B558338	2.0	0.50	B558354	2.1	0.50	B558338
Total Strontium (Sr)	mg/L	0.029	0.020	B558338	0.026	0.020	B558354	0.028	0.020	B558338
Total Sulphur (S)	mg/L	6.6	0.20	B558338	6.8	0.20	B558354	5.1	0.20	B558338
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B558345	<0.00020	0.00020	B558364	<0.00020	0.00020	B558345
Total Tin (Sn)	mg/L	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345
Total Titanium (Ti)	mg/L	0.0021	0.0010	B558345	0.0032	0.0010	B558364	0.0034	0.0010	B558345
Total Uranium (U)	mg/L	<0.00010	0.00010	B558345	<0.00010	0.00010	B558364	<0.00010	0.00010	B558345
Total Vanadium (V)	mg/L	<0.0010	0.0010	B558345	<0.0010	0.0010	B558364	<0.0010	0.0010	B558345

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG744			CXG745			CXG746		
Sampling Date		2024/10/02 13:30			2024/10/02 13:35			2024/10/02 13:20		
COC Number		C#737331-01-01			C#737331-01-01			C#737331-01-01		
	UNITS	**CL-5 SFC**	**RDL**	**QC Batch**	**CL-5 BTM**	**RDL**	**QC Batch**	**CL-6 SFC**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.013	0.0030	B558345	0.015	0.0030	B558364	0.013	0.0030	B558345
RDL = Reportable Detection Limit										

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG747		CXG748		CXG749		
Sampling Date		2024/10/02 13:25		2024/10/02 12:00		2024/10/02 12:00		
COC Number		C#737331-01-01		C#737331-01-01		C#737331-01-01		
	UNITS	CL-6 BTM	QC Batch	SW-131	QC Batch	SW-132	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.027	B554802	0.057	B554802	0.32	0.020	B554802
Total Aluminum (Al)	mg/L	0.074	B558345	0.077	B559582	0.10	0.0030	B558345
Total Antimony (Sb)	mg/L	<0.00060	B558345	<0.00060	B559582	<0.00060	0.00060	B558345
Total Arsenic (As)	mg/L	0.00054	B558345	0.00067	B559582	0.00045	0.00020	B558345
Total Barium (Ba)	mg/L	<0.010	B558338	<0.010	B559570	0.011	0.010	B558338
Total Beryllium (Be)	mg/L	<0.0010	B558345	<0.0010	B559582	<0.0010	0.0010	B558345
Total Boron (B)	mg/L	<0.020	B558338	<0.020	B559570	<0.020	0.020	B558338
Total Calcium (Ca)	mg/L	12	B558338	13	B559570	37	0.30	B558338
Total Chromium (Cr)	mg/L	<0.0010	B558345	<0.0010	B559582	<0.0010	0.0010	B558345
Total Cobalt (Co)	mg/L	<0.00030	B558345	<0.00030	B559582	<0.00030	0.00030	B558345
Total Copper (Cu)	mg/L	0.0072	B558345	0.011	B559582	0.014	0.0010	B558345
Total Iron (Fe)	mg/L	0.24	B558338	0.51	B559570	5.3	0.060	B558338
Total Lead (Pb)	mg/L	0.00046	B558345	0.00021	B559582	0.00034	0.00020	B558345
Total Lithium (Li)	mg/L	<0.020	B558338	<0.020	B559570	<0.020	0.020	B558338
Total Magnesium (Mg)	mg/L	3.3	B558338	3.6	B559570	6.5	0.20	B558338
Total Manganese (Mn)	mg/L	0.021	B558338	0.020	B559570	0.049	0.0040	B558338
Total Molybdenum (Mo)	mg/L	<0.00020	B558345	<0.00020	B559582	<0.00020	0.00020	B558345
Total Nickel (Ni)	mg/L	0.0013	B558345	0.00090	B559582	0.00099	0.00050	B558345
Total Phosphorus (P)	mg/L	<0.10	B558338	<0.10	B559570	<0.10	0.10	B558338
Total Potassium (K)	mg/L	1.5	B558338	1.7	B559570	3.2	0.30	B558338
Total Selenium (Se)	mg/L	<0.00020	B558345	<0.00020	B559582	<0.00020	0.00020	B558345
Total Silicon (Si)	mg/L	0.68	B558338	0.87	B559570	0.79	0.50	B558338
Total Silver (Ag)	mg/L	<0.00010	B558345	<0.00010	B559582	<0.00010	0.00010	B558345
Total Sodium (Na)	mg/L	2.1	B558338	2.2	B559570	2.8	0.50	B558338
Total Strontium (Sr)	mg/L	0.028	B558338	0.028	B559570	0.045	0.020	B558338
Total Sulphur (S)	mg/L	5.2	B558338	7.5	B559570	34	0.20	B558338
Total Thallium (Tl)	mg/L	<0.00020	B558345	<0.00020	B559582	<0.00020	0.00020	B558345
Total Tin (Sn)	mg/L	<0.0010	B558345	<0.0010	B559582	<0.0010	0.0010	B558345
Total Titanium (Ti)	mg/L	0.0032	B558345	0.0026	B559582	0.0049	0.0010	B558345
Total Uranium (U)	mg/L	<0.00010	B558345	<0.00010	B559582	<0.00010	0.00010	B558345
Total Vanadium (V)	mg/L	<0.0010	B558345	<0.0010	B559582	<0.0010	0.0010	B558345

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG747		CXG748		CXG749		
Sampling Date		2024/10/02 13:25		2024/10/02 12:00		2024/10/02 12:00		
COC Number		C#737331-01-01		C#737331-01-01		C#737331-01-01		
	UNITS	**CL-6 BTM**	**QC Batch**	**SW-131**	**QC Batch**	**SW-132**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.011	B558345	0.023	B559582	0.099	0.0030	B558345
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG714			CXG715		CXG716		
Sampling Date		2024/10/02 16:20			2024/10/02 14:40		2024/10/02 14:35		
COC Number		C#737331-01-01			C#737331-01-01		C#737331-01-01		
	UNITS	SC-1	RDL	QC Batch	SB-1	RDL	SB-2	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	39	0.50	B554812	110	0.50	120	0.50	B554812
Total Hardness (CaCO3)	mg/L	36.5	0.50	B553608	103	0.50	106	0.50	B553608
Misc. Inorganics									
pH	pH	6.42	N/A	B556136	5.82	N/A	5.77	N/A	B556889
Total Organic Carbon (C)	mg/L	14	0.50	B557626	9.3 (1)	1.0	11	0.50	B557621
Total Suspended Solids	mg/L	2.3	1.0	B557189	4.9	0.99	6.7	0.99	B557189
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	13 (2)	0.50	B557563	9.8 (2)	0.50	10 (2)	0.50	B557686
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556133	<1.0	1.0	<1.0	1.0	B556886
Alkalinity (Total as CaCO3)	mg/L	30	1.0	B556133	8.9	1.0	7.5	1.0	B556886
Bicarbonate (HCO3)	mg/L	36	1.0	B556133	11	1.0	9.1	1.0	B556886
Carbonate (CO3)	mg/L	<1.0	1.0	B556133	<1.0	1.0	<1.0	1.0	B556886
Hydroxide (OH)	mg/L	<1.0	1.0	B556133	<1.0	1.0	<1.0	1.0	B556886
Sulphate (SO4)	mg/L	9.8	1.0	B556089	93	1.0	97	1.0	B556081
Physical Properties									
Turbidity	NTU	2.5	0.10	B556351	19	0.10	24	0.10	B556351

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Detection limits raised due to matrix interference.
(2) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG717			CXG718			CXG719		
Sampling Date		2024/10/02 14:45			2024/10/02 14:50			2024/10/02 14:55		
COC Number		C#737331-01-01			C#737331-01-01			C#737331-01-01		
	UNITS	CB-1	RDL	QC Batch	CB-2	RDL	QC Batch	EB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	120	0.50	B554812	110	0.50	B554812	140	0.50	B554812
Total Hardness (CaCO3)	mg/L	99.9	0.50	B553608	105	0.50	B553608	126	0.50	B553608
Misc. Inorganics										
pH	pH	5.85	N/A	B556889	6.20	N/A	B556136	5.84	N/A	B556889
Total Organic Carbon (C)	mg/L	11	0.50	B557626	9.2	0.50	B557626	9.0	0.50	B557626
Total Suspended Solids	mg/L	5.0	1.0	B557189	6.1	0.99	B557189	3.3	1.0	B557189
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10 (1)	0.50	B557686	9.9 (1)	0.50	B557563	9.5 (1)	0.50	B557686
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556886	<1.0	1.0	B556133	<1.0	1.0	B556886
Alkalinity (Total as CaCO3)	mg/L	9.7	1.0	B556886	11	1.0	B556133	9.8	1.0	B556886
Bicarbonate (HCO3)	mg/L	12	1.0	B556886	13	1.0	B556133	12	1.0	B556886
Carbonate (CO3)	mg/L	<1.0	1.0	B556886	<1.0	1.0	B556133	<1.0	1.0	B556886
Hydroxide (OH)	mg/L	<1.0	1.0	B556886	<1.0	1.0	B556133	<1.0	1.0	B556886
Sulphate (SO4)	mg/L	94	1.0	B556081	96	1.0	B556089	120	1.0	B556081
Physical Properties										
Turbidity	NTU	20	0.10	B556351	19	0.10	B556351	12	0.10	B556351

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG720		CXG721			CXG721		
Sampling Date		2024/10/02 15:00		2024/10/02 15:10			2024/10/02 15:10		
COC Number		C#737331-01-01		C#737331-01-01			C#737331-01-01		
	UNITS	EB-2	QC Batch	NB-1	RDL	QC Batch	NB-1 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	140	B554812	130	0.50	B554812			
Total Hardness (CaCO3)	mg/L	123	B554937	118	0.50	B554937			
Misc. Inorganics									
pH	pH	5.84	B556889	6.21	N/A	B556136			
Total Organic Carbon (C)	mg/L	8.6	B557626	9.1	0.50	B557626			
Total Suspended Solids	mg/L	4.5	B557189	1.7	1.0	B557190	1.1	1.0	B557190
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	9.1 (1)	B557686	11 (1)	0.50	B557563			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B556886	<1.0	1.0	B556133			
Alkalinity (Total as CaCO3)	mg/L	9.8	B556886	11	1.0	B556133			
Bicarbonate (HCO3)	mg/L	12	B556886	14	1.0	B556133			
Carbonate (CO3)	mg/L	<1.0	B556886	<1.0	1.0	B556133			
Hydroxide (OH)	mg/L	<1.0	B556886	<1.0	1.0	B556133			
Sulphate (SO4)	mg/L	120	B556081	110	1.0	B556089			
Physical Properties									
Turbidity	NTU	11	B556351	14	0.10	B556351			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG723			CXG725			CXG727		
Sampling Date		2024/10/02 15:05			2024/10/02 15:15			2024/10/02 14:00		
COC Number		C#737331-01-01			C#737331-01-01			C#737331-01-01		
	UNITS	NB-2	RDL	QC Batch	CLD	RDL	QC Batch	CL-3 SFC	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	120	0.50	B554812	120	0.50	B554812	55	0.50	B554812
Total Hardness (CaCO3)	mg/L	113	0.50	B554937	113	0.50	B554937	48.2	0.50	B554937
Misc. Inorganics										
pH	pH	6.19	N/A	B556136	6.19	N/A	B556136	6.50	N/A	B556136
Total Organic Carbon (C)	mg/L	9.2	0.50	B557626	11	0.50	B557621	9.9 (1)	1.0	B557626
Total Suspended Solids	mg/L	3.7	1.0	B557190	3.4	0.97	B557190	<1.0	1.0	B557190
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11 (2)	0.50	B557563	10 (2)	0.50	B557563	11 (2)	0.50	B557563
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556133	<1.0	1.0	B556133	<1.0	1.0	B556133
Alkalinity (Total as CaCO3)	mg/L	11	1.0	B556133	11	1.0	B556133	28	1.0	B556133
Bicarbonate (HCO3)	mg/L	13	1.0	B556133	13	1.0	B556133	35	1.0	B556133
Carbonate (CO3)	mg/L	<1.0	1.0	B556133	<1.0	1.0	B556133	<1.0	1.0	B556133
Hydroxide (OH)	mg/L	<1.0	1.0	B556133	<1.0	1.0	B556133	<1.0	1.0	B556133
Sulphate (SO4)	mg/L	110	1.0	B556089	110	1.0	B556089	26	1.0	B556086
Physical Properties										
Turbidity	NTU	16	0.10	B556351	16	0.10	B556351	2.9	0.10	B557505

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Detection limits raised due to matrix interference.
(2) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG730			CXG732		CXG734		
Sampling Date		2024/10/02 14:05			2024/10/02 14:10		2024/10/02 14:15		
COC Number		C#737331-01-01			C#737331-01-01		C#737331-01-01		
	UNITS	CL-3 BTM	RDL	QC Batch	CL-7 SFC	QC Batch	CL-7 BTM	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	54	0.50	B554812	54	B554812	55	0.50	B554812
Total Hardness (CaCO3)	mg/L	48.0	0.50	B554937	49.8	B554937	48.8	0.50	B554937
Misc. Inorganics									
pH	pH	6.48	N/A	B556136	6.10	B556889	6.51	N/A	B556136
Total Organic Carbon (C)	mg/L	10	0.50	B557626	10	B557626	11	0.50	B557621
Total Suspended Solids	mg/L	<0.97	0.97	B557190	<1.0	B557190	<1.0	1.0	B557190
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	11 (1)	0.50	B557563	10 (1)	B557686	10 (1)	0.50	B557686
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556133	<1.0	B556886	<1.0	1.0	B556133
Alkalinity (Total as CaCO3)	mg/L	29	1.0	B556133	29	B556886	29	1.0	B556133
Bicarbonate (HCO3)	mg/L	36	1.0	B556133	35	B556886	35	1.0	B556133
Carbonate (CO3)	mg/L	<1.0	1.0	B556133	<1.0	B556886	<1.0	1.0	B556133
Hydroxide (OH)	mg/L	<1.0	1.0	B556133	<1.0	B556886	<1.0	1.0	B556133
Sulphate (SO4)	mg/L	26	1.0	B556201	25	B556081	26	1.0	B556081
Physical Properties									
Turbidity	NTU	3.1	0.10	B557505	3.4	B557505	3.8	0.10	B557505

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG736			CXG739			CXG740		
Sampling Date		2024/10/02 13:50			2024/10/02 13:55			2024/10/02 14:20		
COC Number		C#737331-01-01			C#737331-01-01			C#737331-01-01		
	UNITS	CL-8 SFC	RDL	QC Batch	CL-8 BTM	RDL	QC Batch	CL-2 SFC	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	54	0.50	B554812	54	0.50	B554812	52	0.50	B554812
Total Hardness (CaCO3)	mg/L	47.6	0.50	B554937	49.5	0.50	B554937	48.3	0.50	B554937
Misc. Inorganics										
pH	pH	6.51	N/A	B556136	6.09	N/A	B556889	6.45	N/A	B556136
Total Organic Carbon (C)	mg/L	9.7	0.50	B557621	9.3	0.50	B557621	11	0.50	B557626
Total Suspended Solids	mg/L	1.3	0.97	B557190	<0.99	0.99	B557190	<1.0	1.0	B557190
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11 (1)	0.50	B557563	11 (1)	0.50	B557563	11 (1)	0.50	B557563
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556133	<1.0	1.0	B556886	<1.0	1.0	B556133
Alkalinity (Total as CaCO3)	mg/L	29	1.0	B556133	29	1.0	B556886	29	1.0	B556133
Bicarbonate (HCO3)	mg/L	36	1.0	B556133	35	1.0	B556886	36	1.0	B556133
Carbonate (CO3)	mg/L	<1.0	1.0	B556133	<1.0	1.0	B556886	<1.0	1.0	B556133
Hydroxide (OH)	mg/L	<1.0	1.0	B556133	<1.0	1.0	B556886	<1.0	1.0	B556133
Sulphate (SO4)	mg/L	26	1.0	B556086	26	1.0	B556086	25	1.0	B556089
Physical Properties										
Turbidity	NTU	3.2	0.10	B557505	3.7	0.10	B557505	3.2	0.10	B557505

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C480255
Report Date: 2024/10/11

KGS Group
Client Project #: 21-1357-005
Site Location: OAM - SHERRIDON MINE STIE

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG741		CXG742		CXG743		
Sampling Date		2024/10/02 14:25		2024/10/02 13:40		2024/10/02 13:45		
COC Number		C#737331-01-01		C#737331-01-01		C#737331-01-01		
	UNITS	CL-2 BTM	QC Batch	CL-4 SFC	QC Batch	CL-4 BTM	RDL	QC Batch
Calculated Parameters								
Hardness (CaCO3)	mg/L	53	B554812	53	B554812	51	0.50	B554812
Total Hardness (CaCO3)	mg/L	50.2	B554937	45.7	B554937	47.5	0.50	B554937
Misc. Inorganics								
pH	pH	6.50	B556136	6.11	B556889	6.48	N/A	B556136
Total Organic Carbon (C)	mg/L	9.8	B557626	10	B557626	9.4	0.50	B557626
Total Suspended Solids	mg/L	<1.0	B557190	<1.0	B557190	<1.0	1.0	B557190
Lab Filtered Inorganics								
Dissolved Organic Carbon (C)	mg/L	11 (1)	B557563	9.9 (1)	B557686	11 (1)	0.50	B557563
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B556133	<1.0	B556886	<1.0	1.0	B556133
Alkalinity (Total as CaCO3)	mg/L	30	B556133	28	B556886	29	1.0	B556133
Bicarbonate (HCO3)	mg/L	36	B556133	34	B556886	36	1.0	B556133
Carbonate (CO3)	mg/L	<1.0	B556133	<1.0	B556886	<1.0	1.0	B556133
Hydroxide (OH)	mg/L	<1.0	B556133	<1.0	B556886	<1.0	1.0	B556133
Sulphate (SO4)	mg/L	25	B556201	24	B556081	24	1.0	B556089
Physical Properties								
Turbidity	NTU	3.5	B557505	2.8	B557505	3.0	0.10	B557544

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG743			CXG744		CXG745		
Sampling Date		2024/10/02 13:45			2024/10/02 13:30		2024/10/02 13:35		
COC Number		C#737331-01-01			C#737331-01-01		C#737331-01-01		
	UNITS	CL-4 BTM Lab-Dup	RDL	QC Batch	CL-5 SFC	QC Batch	CL-5 BTM	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				50	B554812	52	0.50	B554812
Total Hardness (CaCO3)	mg/L				46.3	B554937	44.9	0.50	B554937
Misc. Inorganics									
pH	pH				6.47	B556136	6.15	N/A	B556889
Total Organic Carbon (C)	mg/L				9.9	B557626	9.2	0.50	B557626
Total Suspended Solids	mg/L				<1.0	B557190	<1.0	1.0	B557190
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	11	0.50	B557563	11 (1)	B557563	10 (1)	0.50	B557686
Anions									
Alkalinity (PP as CaCO3)	mg/L				<1.0	B556133	<1.0	1.0	B556886
Alkalinity (Total as CaCO3)	mg/L				30	B556133	28	1.0	B556886
Bicarbonate (HCO3)	mg/L				36	B556133	34	1.0	B556886
Carbonate (CO3)	mg/L				<1.0	B556133	<1.0	1.0	B556886
Hydroxide (OH)	mg/L				<1.0	B556133	<1.0	1.0	B556886
Sulphate (SO4)	mg/L				22	B556089	23	1.0	B556086
Physical Properties									
Turbidity	NTU	3.1	0.10	B557544	2.8	B557544	3.2	0.10	B557544

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG745			CXG746			CXG747		
Sampling Date		2024/10/02 13:35			2024/10/02 13:20			2024/10/02 13:25		
COC Number		C#737331-01-01			C#737331-01-01			C#737331-01-01		
	UNITS	CL-5 BTM Lab-Dup	RDL	QC Batch	CL-6 SFC	RDL	QC Batch	CL-6 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				47	0.50	B554812	46	0.50	B554812
Total Hardness (CaCO3)	mg/L				42.2	0.50	B554937	42.6	0.50	B554937
Misc. Inorganics										
pH	pH				6.12	N/A	B556889	6.32	N/A	B556136
Total Organic Carbon (C)	mg/L	9.6	0.50	B557626	11	0.50	B557621	9.9 (1)	1.0	B557621
Total Suspended Solids	mg/L				11	1.0	B557190	<1.0	1.0	B557190
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L				10 (2)	0.50	B557686	9.8 (2)	0.50	B557563
Anions										
Alkalinity (PP as CaCO3)	mg/L				<1.0	1.0	B556886	<1.0	1.0	B556133
Alkalinity (Total as CaCO3)	mg/L				29	1.0	B556886	31	1.0	B556133
Bicarbonate (HCO3)	mg/L				35	1.0	B556886	37	1.0	B556133
Carbonate (CO3)	mg/L				<1.0	1.0	B556886	<1.0	1.0	B556133
Hydroxide (OH)	mg/L				<1.0	1.0	B556886	<1.0	1.0	B556133
Sulphate (SO4)	mg/L				17	1.0	B556086	17	1.0	B556089
Physical Properties										
Turbidity	NTU				2.3	0.10	B557544	2.6	0.10	B557544

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Detection limits raised due to matrix interference.
(2) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG747			CXG748			CXG748		
Sampling Date		2024/10/02 13:25			2024/10/02 12:00			2024/10/02 12:00		
COC Number		C#737331-01-01			C#737331-01-01			C#737331-01-01		
	UNITS	CL-6 BTM Lab-Dup	RDL	QC Batch	SW-131	RDL	QC Batch	SW-131 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				52	0.50	B554812			
Total Hardness (CaCO3)	mg/L				48.3	0.50	B554937			
Misc. Inorganics										
pH	pH	6.45	N/A	B556136	6.47	N/A	B556136			
Total Organic Carbon (C)	mg/L				8.8 (1)	1.0	B557621			
Total Suspended Solids	mg/L				<0.97	0.97	B557190			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L				11 (2)	0.50	B557563			
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556133	<1.0	1.0	B556133			
Alkalinity (Total as CaCO3)	mg/L	32	1.0	B556133	30	1.0	B556133			
Bicarbonate (HCO3)	mg/L	39	1.0	B556133	37	1.0	B556133			
Carbonate (CO3)	mg/L	<1.0	1.0	B556133	<1.0	1.0	B556133			
Hydroxide (OH)	mg/L	<1.0	1.0	B556133	<1.0	1.0	B556133			
Sulphate (SO4)	mg/L				24	1.0	B556086	24	1.0	B556086
Physical Properties										
Turbidity	NTU				2.7	0.10	B557544			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Detection limits raised due to matrix interference.
(2) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CXG749		
Sampling Date		2024/10/02 12:00		
COC Number		C#737331-01-01		
	UNITS	**SW-132**	**RDL**	**QC Batch**
Calculated Parameters				
Hardness (CaCO3)	mg/L	130	0.50	B554812
Total Hardness (CaCO3)	mg/L	118	0.50	B554937
Misc. Inorganics				
pH	pH	5.84	N/A	B556889
Total Organic Carbon (C)	mg/L	9.4	0.50	B557626
Total Suspended Solids	mg/L	2.4	1.0	B557190
Lab Filtered Inorganics				
Dissolved Organic Carbon (C)	mg/L	10 (1)	0.50	B557686
Anions				
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556886
Alkalinity (Total as CaCO3)	mg/L	10	1.0	B556886
Bicarbonate (HCO3)	mg/L	13	1.0	B556886
Carbonate (CO3)	mg/L	<1.0	1.0	B556886
Hydroxide (OH)	mg/L	<1.0	1.0	B556886
Sulphate (SO4)	mg/L	110	1.0	B556086
Physical Properties				
Turbidity	NTU	14	0.10	B557544

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Sample filtered and preserved past method specified hold time

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	-2.0°C
Package 2	1.6°C
Package 3	-1.5°C
Package 4	1.9°C
Package 5	0.5°C

Sample CXG714 [SC-1] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG715 [SB-1] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG716 [SB-2] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG717 [CB-1] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG718 [CB-2] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG719 [EB-1] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG720 [EB-2] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG721 [NB-1] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG723 [NB-2] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG725 [CLD] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG727 [CL-3 SFC] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG730 [CL-3 BTM] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG732 [CL-7 SFC] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG734 [CL-7 BTM] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG736 [CL-8 SFC] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG739 [CL-8 BTM] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

test results but does not necessarily imply that results are compromised.

Sample CXG740 [CL-2 SFC] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG741 [CL-2 BTM] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG742 [CL-4 SFC] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG743 [CL-4 BTM] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG744 [CL-5 SFC] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG745 [CL-5 BTM] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG746 [CL-6 SFC] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG747 [CL-6 BTM] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG748 [SW-131] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG749 [SW-132] : Sample was analyzed past method specified hold time for Turbidity. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG721, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CXG730, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B556081	Sulphate (SO4)	2024/10/08	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.24	20
B556086	Sulphate (SO4)	2024/10/08	94	80 - 120	97	80 - 120	<1.0	mg/L	0.42	20
B556089	Sulphate (SO4)	2024/10/08	96	80 - 120	98	80 - 120	<1.0	mg/L	1.8	20
B556133	Alkalinity (PP as CaCO3)	2024/10/08					<1.0	mg/L	NC	20
B556133	Alkalinity (Total as CaCO3)	2024/10/08			103	80 - 120	<1.0	mg/L	3.8	20
B556133	Bicarbonate (HCO3)	2024/10/08					<1.0	mg/L	3.8	20
B556133	Carbonate (CO3)	2024/10/08					<1.0	mg/L	NC	20
B556133	Hydroxide (OH)	2024/10/08					<1.0	mg/L	NC	20
B556136	pH	2024/10/08			101	97 - 103			2.0	N/A
B556201	Sulphate (SO4)	2024/10/08	NC	80 - 120	101	80 - 120	<1.0	mg/L	2.1	20
B556351	Turbidity	2024/10/08			101	80 - 120	<0.10	NTU	3.9	20
B556614	Dissolved Aluminum (Al)	2024/10/09	91	80 - 120	98	80 - 120	<0.0030	mg/L	NC	20
B556614	Dissolved Antimony (Sb)	2024/10/09	102	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20
B556614	Dissolved Arsenic (As)	2024/10/09	105	80 - 120	98	80 - 120	<0.00020	mg/L	15	20
B556614	Dissolved Beryllium (Be)	2024/10/09	94	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B556614	Dissolved Chromium (Cr)	2024/10/09	95	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B556614	Dissolved Cobalt (Co)	2024/10/09	94	80 - 120	97	80 - 120	<0.00030	mg/L	NC	20
B556614	Dissolved Copper (Cu)	2024/10/09	92	80 - 120	96	80 - 120	<0.0010	mg/L	0.78	20
B556614	Dissolved Lead (Pb)	2024/10/09	89	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B556614	Dissolved Molybdenum (Mo)	2024/10/09	107	80 - 120	96	80 - 120	<0.00020	mg/L	3.1	20
B556614	Dissolved Nickel (Ni)	2024/10/09	91	80 - 120	96	80 - 120	<0.00050	mg/L	5.1	20
B556614	Dissolved Selenium (Se)	2024/10/09	109	80 - 120	99	80 - 120	<0.00020	mg/L	2.7	20
B556614	Dissolved Silver (Ag)	2024/10/09	91	80 - 120	92	80 - 120	<0.00010	mg/L	NC	20
B556614	Dissolved Thallium (Tl)	2024/10/09	88	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B556614	Dissolved Tin (Sn)	2024/10/09	104	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B556614	Dissolved Titanium (Ti)	2024/10/09	100	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B556614	Dissolved Uranium (U)	2024/10/09	98	80 - 120	97	80 - 120	<0.00010	mg/L	0.71	20
B556614	Dissolved Vanadium (V)	2024/10/09	101	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B556614	Dissolved Zinc (Zn)	2024/10/09	101	80 - 120	95	80 - 120	<0.0030	mg/L	NC	20
B556626	Dissolved Aluminum (Al)	2024/10/09	95	80 - 120	100	80 - 120	<0.0030	mg/L	6.2	20
B556626	Dissolved Antimony (Sb)	2024/10/09	100	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20
B556626	Dissolved Arsenic (As)	2024/10/09	103	80 - 120	97	80 - 120	<0.00020	mg/L	15	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B556626	Dissolved Beryllium (Be)	2024/10/09	96	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B556626	Dissolved Chromium (Cr)	2024/10/09	94	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B556626	Dissolved Cobalt (Co)	2024/10/09	95	80 - 120	95	80 - 120	<0.00030	mg/L	NC	20
B556626	Dissolved Copper (Cu)	2024/10/09	95	80 - 120	95	80 - 120	<0.0010	mg/L	0.99	20
B556626	Dissolved Lead (Pb)	2024/10/09	94	80 - 120	99	80 - 120	<0.00020	mg/L	10	20
B556626	Dissolved Molybdenum (Mo)	2024/10/09	96	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B556626	Dissolved Nickel (Ni)	2024/10/09	97	80 - 120	94	80 - 120	<0.00050	mg/L	NC	20
B556626	Dissolved Selenium (Se)	2024/10/09	104	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B556626	Dissolved Silver (Ag)	2024/10/09	93	80 - 120	95	80 - 120	<0.00010	mg/L	NC	20
B556626	Dissolved Thallium (Tl)	2024/10/09	93	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B556626	Dissolved Tin (Sn)	2024/10/09	95	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B556626	Dissolved Titanium (Ti)	2024/10/09	91	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B556626	Dissolved Uranium (U)	2024/10/09	96	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B556626	Dissolved Vanadium (V)	2024/10/09	95	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B556626	Dissolved Zinc (Zn)	2024/10/09	NC	80 - 120	96	80 - 120	<0.0030	mg/L	0.86	20
B556886	Alkalinity (PP as CaCO3)	2024/10/09					<1.0	mg/L	NC	20
B556886	Alkalinity (Total as CaCO3)	2024/10/09			97	80 - 120	<1.0	mg/L	0.025	20
B556886	Bicarbonate (HCO3)	2024/10/09					<1.0	mg/L	0.025	20
B556886	Carbonate (CO3)	2024/10/09					<1.0	mg/L	NC	20
B556886	Hydroxide (OH)	2024/10/09					<1.0	mg/L	NC	20
B556889	pH	2024/10/09			101	97 - 103			0.42	N/A
B557189	Total Suspended Solids	2024/10/09	113	80 - 120	96	80 - 120	<1.0	mg/L	NC	20
B557190	Total Suspended Solids	2024/10/09	111	80 - 120	92	80 - 120	<0.96	mg/L	NC	20
B557505	Turbidity	2024/10/09			101	80 - 120	<0.10	NTU	4.4	20
B557544	Turbidity	2024/10/09			101	80 - 120	<0.10	NTU	2.0	20
B557563	Dissolved Organic Carbon (C)	2024/10/09	NC	75 - 125	107	80 - 120	<0.50	mg/L	3.4	20
B557580	Dissolved Barium (Ba)	2024/10/09	98	80 - 120	98	80 - 120	<0.010	mg/L		
B557580	Dissolved Boron (B)	2024/10/09	98	80 - 120	98	80 - 120	<0.020	mg/L		
B557580	Dissolved Calcium (Ca)	2024/10/09	95	80 - 120	99	80 - 120	<0.30	mg/L	3.4	20
B557580	Dissolved Iron (Fe)	2024/10/09	109	80 - 120	103	80 - 120	<0.060	mg/L	NC	20
B557580	Dissolved Lithium (Li)	2024/10/09	98	80 - 120	97	80 - 120	<0.020	mg/L		
B557580	Dissolved Magnesium (Mg)	2024/10/09	103	80 - 120	102	80 - 120	<0.20	mg/L	2.5	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B557580	Dissolved Manganese (Mn)	2024/10/09	102	80 - 120	96	80 - 120	<0.0040	mg/L	NC	20
B557580	Dissolved Phosphorus (P)	2024/10/09	106	80 - 120	103	80 - 120	<0.10	mg/L		
B557580	Dissolved Potassium (K)	2024/10/09	100	80 - 120	101	80 - 120	<0.30	mg/L	3.9	20
B557580	Dissolved Silicon (Si)	2024/10/09	97	80 - 120	101	80 - 120	<0.50	mg/L		
B557580	Dissolved Sodium (Na)	2024/10/09	100	80 - 120	101	80 - 120	<0.50	mg/L	2.7	20
B557580	Dissolved Strontium (Sr)	2024/10/09	94	80 - 120	97	80 - 120	<0.020	mg/L		
B557580	Dissolved Sulphur (S)	2024/10/09	106	80 - 120	100	80 - 120	<0.20	mg/L		
B557621	Total Organic Carbon (C)	2024/10/09	NC	75 - 125	102	80 - 120	<0.50	mg/L	0.77	20
B557626	Total Organic Carbon (C)	2024/10/09	106	75 - 125	93	80 - 120	<0.50	mg/L	3.9	20
B557686	Dissolved Organic Carbon (C)	2024/10/09	NC	75 - 125	102	80 - 120	<0.50	mg/L	7.0	20
B557700	Total Barium (Ba)	2024/10/10	97	80 - 120	99	80 - 120	<0.010	mg/L	NC	20
B557700	Total Boron (B)	2024/10/10	98	80 - 120	99	80 - 120	<0.020	mg/L	NC	20
B557700	Total Calcium (Ca)	2024/10/10	NC	80 - 120	100	80 - 120	<0.30	mg/L	NC	20
B557700	Total Iron (Fe)	2024/10/10	NC	80 - 120	97	80 - 120	<0.060	mg/L	NC	20
B557700	Total Lithium (Li)	2024/10/10	97	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B557700	Total Magnesium (Mg)	2024/10/10	NC	80 - 120	99	80 - 120	<0.20	mg/L	NC	20
B557700	Total Manganese (Mn)	2024/10/10	99	80 - 120	95	80 - 120	<0.0040	mg/L	NC	20
B557700	Total Phosphorus (P)	2024/10/10	96	80 - 120	95	80 - 120	<0.10	mg/L	NC	20
B557700	Total Potassium (K)	2024/10/10	102	80 - 120	101	80 - 120	<0.30	mg/L	NC	20
B557700	Total Silicon (Si)	2024/10/10	NC	80 - 120	95	80 - 120	<0.50	mg/L	NC	20
B557700	Total Sodium (Na)	2024/10/10	101	80 - 120	102	80 - 120	<0.50	mg/L	NC	20
B557700	Total Strontium (Sr)	2024/10/10	93	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B557700	Total Sulphur (S)	2024/10/10	NC	80 - 120	93	80 - 120	<0.20	mg/L	NC	20
B557707	Total Aluminum (Al)	2024/10/11	NC	80 - 120	105	80 - 120	<0.0030	mg/L	NC	20
B557707	Total Antimony (Sb)	2024/10/11	113	80 - 120	110	80 - 120	<0.00060	mg/L	NC	20
B557707	Total Arsenic (As)	2024/10/11	115	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B557707	Total Beryllium (Be)	2024/10/11	111	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Chromium (Cr)	2024/10/11	109	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Cobalt (Co)	2024/10/11	111	80 - 120	103	80 - 120	<0.00030	mg/L	NC	20
B557707	Total Copper (Cu)	2024/10/11	106	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Lead (Pb)	2024/10/11	110	80 - 120	107	80 - 120	<0.00020	mg/L	NC	20
B557707	Total Molybdenum (Mo)	2024/10/11	115	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B557707	Total Nickel (Ni)	2024/10/11	111	80 - 120	103	80 - 120	<0.00050	mg/L	NC	20
B557707	Total Selenium (Se)	2024/10/11	112	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B557707	Total Silver (Ag)	2024/10/11	109	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20
B557707	Total Thallium (Tl)	2024/10/11	114	80 - 120	110	80 - 120	<0.00020	mg/L	NC	20
B557707	Total Tin (Sn)	2024/10/11	115	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Titanium (Ti)	2024/10/11	109	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Uranium (U)	2024/10/11	117	80 - 120	108	80 - 120	<0.00010	mg/L	NC	20
B557707	Total Vanadium (V)	2024/10/11	112	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Zinc (Zn)	2024/10/11	108	80 - 120	101	80 - 120	<0.0030	mg/L	NC	20
B557916	Dissolved Barium (Ba)	2024/10/09	97	80 - 120	98	80 - 120	<0.010	mg/L	3.9	20
B557916	Dissolved Boron (B)	2024/10/09	97	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B557916	Dissolved Calcium (Ca)	2024/10/09	98	80 - 120	98	80 - 120	<0.30	mg/L	0.80	20
B557916	Dissolved Iron (Fe)	2024/10/09	101	80 - 120	99	80 - 120	<0.060	mg/L	2.3	20
B557916	Dissolved Lithium (Li)	2024/10/09	96	80 - 120	96	80 - 120	<0.020	mg/L	NC	20
B557916	Dissolved Magnesium (Mg)	2024/10/09	102	80 - 120	100	80 - 120	<0.20	mg/L	0.20	20
B557916	Dissolved Manganese (Mn)	2024/10/09	94	80 - 120	92	80 - 120	<0.0040	mg/L	0	20
B557916	Dissolved Phosphorus (P)	2024/10/09	102	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B557916	Dissolved Potassium (K)	2024/10/09	98	80 - 120	99	80 - 120	<0.30	mg/L	0.71	20
B557916	Dissolved Silicon (Si)	2024/10/09	96	80 - 120	97	80 - 120	<0.50	mg/L	2.3	20
B557916	Dissolved Sodium (Na)	2024/10/09	100	80 - 120	101	80 - 120	<0.50	mg/L	0.59	20
B557916	Dissolved Strontium (Sr)	2024/10/09	95	80 - 120	97	80 - 120	<0.020	mg/L	1.2	20
B557916	Dissolved Sulphur (S)	2024/10/09	101	80 - 120	97	80 - 120	<0.20	mg/L	0.79	20
B558338	Total Barium (Ba)	2024/10/10	96	80 - 120	98	80 - 120	<0.010	mg/L	NC	20
B558338	Total Boron (B)	2024/10/10	96	80 - 120	98	80 - 120	<0.020	mg/L	NC	20
B558338	Total Calcium (Ca)	2024/10/10	96	80 - 120	98	80 - 120	<0.30	mg/L	1.9	20
B558338	Total Iron (Fe)	2024/10/10	95	80 - 120	94	80 - 120	<0.060	mg/L	1.6	20
B558338	Total Lithium (Li)	2024/10/10	93	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B558338	Total Magnesium (Mg)	2024/10/10	96	80 - 120	96	80 - 120	<0.20	mg/L	2.5	20
B558338	Total Manganese (Mn)	2024/10/10	91	80 - 120	91	80 - 120	<0.0040	mg/L	2.3	20
B558338	Total Phosphorus (P)	2024/10/10	93	80 - 120	93	80 - 120	<0.10	mg/L	NC	20
B558338	Total Potassium (K)	2024/10/10	99	80 - 120	100	80 - 120	<0.30	mg/L	3.3	20
B558338	Total Silicon (Si)	2024/10/10	93	80 - 120	93	80 - 120	<0.50	mg/L	0.51	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B558338	Total Sodium (Na)	2024/10/10	98	80 - 120	100	80 - 120	<0.50	mg/L	2.0	20
B558338	Total Strontium (Sr)	2024/10/10	94	80 - 120	96	80 - 120	<0.020	mg/L	1.9	20
B558338	Total Sulphur (S)	2024/10/10	97	80 - 120	90	80 - 120	<0.20	mg/L	2.4	20
B558345	Total Aluminum (Al)	2024/10/10	108	80 - 120	103	80 - 120	<0.0030	mg/L	2.8	20
B558345	Total Antimony (Sb)	2024/10/10	110	80 - 120	104	80 - 120	<0.00060	mg/L	NC	20
B558345	Total Arsenic (As)	2024/10/10	119	80 - 120	104	80 - 120	<0.00020	mg/L	15	20
B558345	Total Beryllium (Be)	2024/10/10	117	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B558345	Total Chromium (Cr)	2024/10/10	116	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B558345	Total Cobalt (Co)	2024/10/10	116	80 - 120	100	80 - 120	<0.00030	mg/L	NC	20
B558345	Total Copper (Cu)	2024/10/10	113	80 - 120	99	80 - 120	<0.0010	mg/L	0.99	20
B558345	Total Lead (Pb)	2024/10/10	119	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B558345	Total Molybdenum (Mo)	2024/10/10	118	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B558345	Total Nickel (Ni)	2024/10/10	116	80 - 120	100	80 - 120	<0.00050	mg/L	NC	20
B558345	Total Selenium (Se)	2024/10/10	114	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B558345	Total Silver (Ag)	2024/10/10	115	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B558345	Total Thallium (Tl)	2024/10/10	112	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20
B558345	Total Tin (Sn)	2024/10/10	118	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B558345	Total Titanium (Ti)	2024/10/10	114	80 - 120	98	80 - 120	<0.0010	mg/L	4.4	20
B558345	Total Uranium (U)	2024/10/10	119	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20
B558345	Total Vanadium (V)	2024/10/10	118	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B558345	Total Zinc (Zn)	2024/10/10	110	80 - 120	98	80 - 120	<0.0030	mg/L	19	20
B558354	Total Barium (Ba)	2024/10/10	100	80 - 120	99	80 - 120	<0.010	mg/L	2.4	20
B558354	Total Boron (B)	2024/10/10	97	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B558354	Total Calcium (Ca)	2024/10/10	98	80 - 120	94	80 - 120	<0.30	mg/L	7.6	20
B558354	Total Iron (Fe)	2024/10/10	NC	80 - 120	102	80 - 120	<0.080 (1)	mg/L	1.0	20
B558354	Total Lithium (Li)	2024/10/10	94	80 - 120	92	80 - 120	<0.020	mg/L	NC	20
B558354	Total Magnesium (Mg)	2024/10/10	101	80 - 120	100	80 - 120	<0.20	mg/L	6.8	20
B558354	Total Manganese (Mn)	2024/10/10	98	80 - 120	97	80 - 120	<0.0040	mg/L	6.4	20
B558354	Total Phosphorus (P)	2024/10/10	98	80 - 120	98	80 - 120	<0.10	mg/L	NC	20
B558354	Total Potassium (K)	2024/10/10	93	80 - 120	92	80 - 120	<0.30	mg/L	8.5	20
B558354	Total Silicon (Si)	2024/10/10	96	80 - 120	95	80 - 120	<0.50	mg/L	3.3	20
B558354	Total Sodium (Na)	2024/10/10	92	80 - 120	91	80 - 120	<0.50	mg/L	7.4	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B558354	Total Strontium (Sr)	2024/10/10	94	80 - 120	94	80 - 120	<0.020	mg/L	7.3	20
B558354	Total Sulphur (S)	2024/10/10	95	80 - 120	93	80 - 120	<0.20	mg/L	5.3	20
B558364	Total Aluminum (Al)	2024/10/11	107	80 - 120	97	80 - 120	<0.0030	mg/L	3.2	20
B558364	Total Antimony (Sb)	2024/10/11	109	80 - 120	109	80 - 120	<0.00060	mg/L	NC	20
B558364	Total Arsenic (As)	2024/10/11	106	80 - 120	105	80 - 120	<0.00020	mg/L	3.7	20
B558364	Total Beryllium (Be)	2024/10/11	105	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B558364	Total Chromium (Cr)	2024/10/11	104	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B558364	Total Cobalt (Co)	2024/10/11	105	80 - 120	101	80 - 120	<0.00030	mg/L	NC	20
B558364	Total Copper (Cu)	2024/10/11	105	80 - 120	101	80 - 120	<0.0010	mg/L	19	20
B558364	Total Lead (Pb)	2024/10/11	107	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B558364	Total Molybdenum (Mo)	2024/10/11	109	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20
B558364	Total Nickel (Ni)	2024/10/11	105	80 - 120	102	80 - 120	<0.00050	mg/L	18	20
B558364	Total Selenium (Se)	2024/10/11	106	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B558364	Total Silver (Ag)	2024/10/11	107	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20
B558364	Total Thallium (Tl)	2024/10/11	110	80 - 120	109	80 - 120	<0.00020	mg/L	NC	20
B558364	Total Tin (Sn)	2024/10/11	105	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20
B558364	Total Titanium (Ti)	2024/10/11	103	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B558364	Total Uranium (U)	2024/10/11	110	80 - 120	106	80 - 120	<0.00010	mg/L	NC	20
B558364	Total Vanadium (V)	2024/10/11	106	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B558364	Total Zinc (Zn)	2024/10/11	101	80 - 120	101	80 - 120	<0.0030	mg/L	6.4	20
B559570	Total Barium (Ba)	2024/10/11	101	80 - 120	99	80 - 120	<0.010	mg/L	0.037	20
B559570	Total Boron (B)	2024/10/11	105	80 - 120	102	80 - 120	<0.020	mg/L	0.88	20
B559570	Total Calcium (Ca)	2024/10/11	NC	80 - 120	97	80 - 120	<0.30	mg/L	0.37	20
B559570	Total Iron (Fe)	2024/10/11	159 (2)	80 - 120	103	80 - 120	<0.060	mg/L	0.11	20
B559570	Total Lithium (Li)	2024/10/11	104	80 - 120	101	80 - 120	<0.020	mg/L	0.091	20
B559570	Total Magnesium (Mg)	2024/10/11	NC	80 - 120	100	80 - 120	<0.20	mg/L	0.53	20
B559570	Total Manganese (Mn)	2024/10/11	107	80 - 120	100	80 - 120	<0.0040	mg/L	0.63	20
B559570	Total Phosphorus (P)	2024/10/11	104	80 - 120	100	80 - 120	<0.10	mg/L	NC	20
B559570	Total Potassium (K)	2024/10/11	101	80 - 120	98	80 - 120	<0.30	mg/L	0.29	20
B559570	Total Silicon (Si)	2024/10/11	161 (2)	80 - 120	98	80 - 120	<0.50	mg/L	2.2	20
B559570	Total Sodium (Na)	2024/10/11	101	80 - 120	99	80 - 120	<0.50	mg/L	0.072	20
B559570	Total Strontium (Sr)	2024/10/11	97	80 - 120	98	80 - 120	<0.020	mg/L	0.61	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B559570	Total Sulphur (S)	2024/10/11	NC	80 - 120	97	80 - 120	<0.20	mg/L	0.53	20
B559582	Total Aluminum (Al)	2024/10/11	NC	80 - 120	94	80 - 120	<0.0030	mg/L	47 (2)	20
B559582	Total Antimony (Sb)	2024/10/11	111	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20
B559582	Total Arsenic (As)	2024/10/11	112	80 - 120	100	80 - 120	<0.00020	mg/L	5.7	20
B559582	Total Beryllium (Be)	2024/10/11	111	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B559582	Total Chromium (Cr)	2024/10/11	108	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B559582	Total Cobalt (Co)	2024/10/11	108	80 - 120	97	80 - 120	<0.00030	mg/L	6.2	20
B559582	Total Copper (Cu)	2024/10/11	106	80 - 120	98	80 - 120	<0.0010	mg/L	10	20
B559582	Total Lead (Pb)	2024/10/11	109	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B559582	Total Molybdenum (Mo)	2024/10/11	115	80 - 120	99	80 - 120	<0.00020	mg/L	4.8	20
B559582	Total Nickel (Ni)	2024/10/11	107	80 - 120	97	80 - 120	<0.00050	mg/L	2.4	20
B559582	Total Selenium (Se)	2024/10/11	112	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B559582	Total Silver (Ag)	2024/10/11	111	80 - 120	96	80 - 120	<0.00010	mg/L	NC	20
B559582	Total Thallium (Tl)	2024/10/11	113	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B559582	Total Tin (Sn)	2024/10/11	110	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B559582	Total Titanium (Ti)	2024/10/11	99	80 - 120	94	80 - 120	<0.0010	mg/L	17	20
B559582	Total Uranium (U)	2024/10/11	112	80 - 120	100	80 - 120	<0.00010	mg/L	4.2	20
B559582	Total Vanadium (V)	2024/10/11	111	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B559582	Total Zinc (Zn)	2024/10/11	84	80 - 120	97	80 - 120	<0.0030	mg/L	14	20
B561985	Dissolved Lead (Pb)	2024/10/11	90	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) DL raised

(2) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

C480255
2024/10/04 14:50

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins; Rachel Dyck	P.O. #			737331
Address	865 Waverly St., 3rd Floor	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
	Winnipeg MB R3T 5P4			Project Name		C#737331-01-01	Janelle Kochan
Phone	(204) 896-1209 Fax:	Phone	Fax:	Site #	OAM - SHERRIDON MINE SITE		
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com; rdyck@kgsgroup.com	Sampled By	RCR/AC		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze DOC and turbidity ASAP to meet hold time)

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT (X)
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water? (Y/N)	Metals Field Filtered? (Y/N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		SC-1	24/10/02	16:20	GWSW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		SB-1		14:40														4	
3		SB-2		14:35														4	
4		CB-1		14:45														4	
5		CB-2		14:50														4	
6		EB-1		14:55														4	
7		EB-2		15:00														4	
8		NB-1		15:10														4	
9		NB-2		15:05														4	
10		CLD		15:15														4	

MCAL-2024-10-635

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Perrella	24/10/04	14:45	Kazi Sultana / JASON BIC	2024-10-04 / 20240007	1450 / 0930		☐	AC TR	☐ Yes ☒ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

CAL AC TR

White: Bureau Veritas Yellow: Client

Ice - Yes

C480255
2024/10/04 14:50

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			737331
Address	865 Waverly St., 3rd Floor Winnipeg MB R3T 5P4	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
Phone	(204) 896-1209 Fax:	Phone	Fax:	Project Name		C#737331-02-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com	Site #	OAM - SHERRIDON MINE SITE
				Sampled By	RCR/AC

Regulatory Criteria: MWQSOG

Special Instructions: Analyze DOC & turbidity ASAP to meet hold times

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required
Please provide advance notice for rush projects
Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-3 SFC	24/10/02	14:00	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		CL-3 BTM		14:05														4	
3		CL-7 SFC		14:10														4	
4		CL-7 BTM		14:15														4	
5		CL-8 SFC		13:50														4	
6		CL-8 BTM		13:55														4	
7		CL-2 SFC		14:20														4	
8		CL-2 BTM		14:25														4	
9		CL-4 SFC		13:40														4	
10		CL-4 BTM		13:45														4	

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Cook Rachel Cook	24/10/04	14:45	Kazi Sultana	2024-10-04	1450			ACTR	Yes / No
			JASON BIL	2024 10 07	0932				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Ice - Yes

C480255
2024/10/04 14:50

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #: 737331
Contact Name	Accounts Payable	Contact Name	Ed Collins ; Rachel Dyck	P.O. #			
Address	865 Waverly St., 3rd Floor Winnipeg MB R3T 5P4	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
Phone	(204) 896-1209 Fax:	Phone	Fax:	Project Name		C#737331-03-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com ; rdyck@kgsgroup.com	Site #	OAM - SHERRIDON MINE SITE		
				Sampled By	RCP / AC		

Regulatory Criteria: MWQSOG

Special Instructions: Analyze turbidity & DOC ASAP to meet hold times

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT [X]
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-5 SFC	24/10/02	13:30	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	
2		CL-5 BTM	↓	13:35	↓	N	N	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	4	
3		CL-6 SFC		13:20		N	N											4	
4		CL-6 BTM	↓	13:25	↓	N	N	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	4	
5		SW-131	24/10/02	PM		N	N											4	
6		SW-132	24/10/02	PM	↓	N	N	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	4	
7																			
8																			
9																			
10																			

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Dyck	24/10/04	14:45	Kazi Sultana / JASON SIL	2024-10-04 20241007	1450 0900		☐	ACTR	☐ Yes ☐ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Ice - Yes

BUREAU VERITAS

WINNIPEG ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1 of 3	C#737331-01-01
Page 2 of 3	-02-01
Page 3 of 3	-03-01
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	
Page of	

RECEIPT OBSERVATIONS:

	YES	NO				
CUSTODY SEAL			COOLER ID	1		
PRESENT		✓				
INTACT		✓	TEMP	-2.0 (1)	-1.8 (2)	-2.2 (3)
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID	2		
PRESENT		✓				
INTACT		✓	TEMP	0.9 (1)	2.4 (2)	1.0 (3)
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID	3		
PRESENT		✓				
INTACT		✓	TEMP	-1.3 (1)	-1.6 (2)	-1.5 (3)
ICE PRESENT	✓					
CUSTODY SEAL	YES	NO	COOLER ID	4		
PRESENT			TEMP	0.3 (1)	3.6 (2)	1.8 (3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	5		
PRESENT			TEMP	1.8 (1)	-0.1 (2)	-0.3 (3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	6		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	7		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	8		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	9		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						
CUSTODY SEAL	YES	NO	COOLER ID	10		
PRESENT			TEMP	(1)	(2)	(3)
INTACT						
ICE PRESENT						

BUREAU VERITAS JOB#

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
Kazi Sultana		2024-10-04	1450

C480255
2024/10/04 14:50

BUREAU VERITAS

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1/2 of 2/2	721083
Page 1/3 of 3/3	737331
Page 1 of 1	737508
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS: MCAL

BV JOB#:

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	2.3	1.2	3.1
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	2.3	2.4	1.9
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1.2	1.9	3.1
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	2.1	0.0	0.2
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	3.3	3.8	5.4
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1.9	0.8	1.6
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
Jason Bil		2024 10 07	0930

C480255
2024/10/04 14:50

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: C#738621-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/10/25
Report #: R3578049
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C484446
Received: 2024/10/18, 11:35

Sample Matrix: Water
Samples Received: 28

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	8	N/A	2024/10/23	AB SOP-00005	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	20	N/A	2024/10/24	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	28	N/A	2024/10/21		Auto Calc
Cadmium - low level CCME (Total) (1)	8	N/A	2024/10/23		Auto Calc
Cadmium - low level CCME (Total) (1)	20	N/A	2024/10/25		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	27	N/A	2024/10/21	AB SOP-00020	SM24-4500-Cl/SO4-E m
Chloride/Sulphate by Auto Colourimetry (1)	1	N/A	2024/10/22	AB SOP-00020	SM24-4500-Cl/SO4-E m
Carbon (DOC) -Lab Filtered (1, 2)	28	N/A	2024/10/21	AB SOP-00087	MMCW 119 1996 m
Hardness (1)	1	N/A	2024/10/21		Auto Calc
Hardness (1)	20	N/A	2024/10/22		Auto Calc
Hardness (1)	7	N/A	2024/10/23		Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	8	N/A	2024/10/23	BBY WI-00033	Auto Calc
Hardness Total (calculated as CaCO3) (1, 3)	20	N/A	2024/10/25	BBY WI-00033	Auto Calc
Elements by ICP-Dissolved-Lab Filtered (1, 4)	28	N/A	2024/10/21	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	8	2024/10/23	2024/10/23	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	20	2024/10/23	2024/10/24	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 5)	28	N/A	2024/10/21	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	8	2024/10/23	2024/10/23	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	20	2024/10/23	2024/10/24	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
pH @25°C (1, 6)	8	N/A	2024/10/23	AB SOP-00005	SM 24 4500-H+B m
pH @25°C (1, 6)	20	N/A	2024/10/24	AB SOP-00005	SM 24 4500-H+B m
Carbon (Total Organic) (1, 7)	1	N/A	2024/10/21	AB SOP-00087	MMCW 119 1996 m
Carbon (Total Organic) (1, 7)	27	N/A	2024/10/22	AB SOP-00087	MMCW 119 1996 m
Total Suspended Solids (NFR) (1)	15	2024/10/21	2024/10/22	AB SOP-00061	SM 24 2540 D m
Total Suspended Solids (NFR) (1)	13	2024/10/22	2024/10/22	AB SOP-00061	SM 24 2540 D m
Turbidity (1)	20	N/A	2024/10/19	CAL SOP-00081	SM 24 2130 B m
Turbidity (1)	8	N/A	2024/10/20	CAL SOP-00081	SM 24 2130 B m

Remarks:

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: C#738621-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/10/25
Report #: R3578049
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C484446
Received: 2024/10/18, 11:35

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) DOC present in the sample should be considered as non-purgeable DOC. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) "Total Hardness" was calculated from Total Ca and Mg concentrations and may be biased high (Hardness, or Dissolved Hardness, calculated from Dissolved Ca and Mg, should be used for compliance if available).
(4) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(5) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(6) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.
(7) TOC present in the sample should be considered as non-purgeable TOC.

Your Project #: 21-1357-005
Site#: OAM-SHERRIDON MINE SITE
Your C.O.C. #: C#738621-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/10/25
Report #: R3578049
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C484446
Received: 2024/10/18, 11:35

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF656		CYF657	CYF658	CYF659		
Sampling Date		2024/10/17 10:55		2024/10/17 09:35	2024/10/17 09:30	2024/10/17 09:40		
COC Number		C#738621-01-01		C#738621-01-01	C#738621-01-01	C#738621-01-01		
	UNITS	SC-1	QC Batch	SB-1	SB-2	CB-1	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.39	B571778	0.25	0.23	0.25	0.020	B571778
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.013	B572595	0.011	0.0096	0.011	0.0030	B572595
Dissolved Antimony (Sb)	mg/L	<0.00060	B572595	<0.00060	<0.00060	<0.00060	0.00060	B572595
Dissolved Arsenic (As)	mg/L	0.00045	B572595	0.00037	0.00033	0.00028	0.00020	B572595
Dissolved Barium (Ba)	mg/L	<0.010	B573647	0.011	0.011	0.012	0.010	B573647
Dissolved Beryllium (Be)	mg/L	<0.0010	B572595	<0.0010	<0.0010	<0.0010	0.0010	B572595
Dissolved Boron (B)	mg/L	<0.020	B573647	<0.020	<0.020	<0.020	0.020	B573647
Dissolved Calcium (Ca)	mg/L	9.7	B573647	35	35	36	0.30	B573647
Dissolved Chromium (Cr)	mg/L	<0.0010	B572595	<0.0010	<0.0010	<0.0010	0.0010	B572595
Dissolved Cobalt (Co)	mg/L	<0.00030	B572595	<0.00030	<0.00030	<0.00030	0.00030	B572595
Dissolved Copper (Cu)	mg/L	0.014	B572595	0.0073	0.0073	0.0079	0.0010	B572595
Dissolved Iron (Fe)	mg/L	0.14	B573647	2.4	2.5	2.4	0.060	B573647
Dissolved Lead (Pb)	mg/L	<0.00020	B572595	<0.00020	<0.00020	<0.00020	0.00020	B572595
Dissolved Lithium (Li)	mg/L	<0.020	B573647	<0.020	<0.020	<0.020	0.020	B573647
Dissolved Magnesium (Mg)	mg/L	3.1	B573647	6.2	6.2	6.3	0.20	B573647
Dissolved Manganese (Mn)	mg/L	0.019	B573647	0.061	0.060	0.058	0.0040	B573647
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B572595	<0.00020	<0.00020	<0.00020	0.00020	B572595
Dissolved Nickel (Ni)	mg/L	0.00056	B572595	0.00092	0.00093	0.00098	0.00050	B572595
Dissolved Phosphorus (P)	mg/L	<0.10	B573647	<0.10	<0.10	<0.10	0.10	B573647
Dissolved Potassium (K)	mg/L	1.6	B573647	3.4	3.4	3.5	0.30	B573647
Dissolved Selenium (Se)	mg/L	<0.00020	B572595	<0.00020	<0.00020	<0.00020	0.00020	B572595
Dissolved Silicon (Si)	mg/L	0.83	B573647	0.65	0.65	0.64	0.50	B573647
Dissolved Silver (Ag)	mg/L	<0.00010	B572595	<0.00010	<0.00010	<0.00010	0.00010	B572595
Dissolved Sodium (Na)	mg/L	3.7	B573647	3.1	3.1	3.1	0.50	B573647
Dissolved Strontium (Sr)	mg/L	0.026	B573647	0.047	0.047	0.048	0.020	B573647
Dissolved Sulphur (S)	mg/L	2.4	B573647	31	32	32	0.20	B573647
Dissolved Thallium (Tl)	mg/L	<0.00020	B572595	<0.00020	<0.00020	<0.00020	0.00020	B572595
Dissolved Tin (Sn)	mg/L	<0.0010	B572595	<0.0010	<0.0010	<0.0010	0.0010	B572595
Dissolved Titanium (Ti)	mg/L	<0.0010	B572595	<0.0010	<0.0010	<0.0010	0.0010	B572595
Dissolved Uranium (U)	mg/L	<0.00010	B572595	<0.00010	<0.00010	<0.00010	0.00010	B572595
Dissolved Vanadium (V)	mg/L	<0.0010	B572595	<0.0010	<0.0010	<0.0010	0.0010	B572595

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF656		CYF657	CYF658	CYF659		
Sampling Date		2024/10/17 10:55		2024/10/17 09:35	2024/10/17 09:30	2024/10/17 09:40		
COC Number		C#738621-01-01		C#738621-01-01	C#738621-01-01	C#738621-01-01		
	UNITS	**SC-1**	**QC Batch**	**SB-1**	**SB-2**	**CB-1**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.15	B574770	0.070	0.070	0.075	0.0030	B572595
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF660			CYF660			CYF661		
Sampling Date		2024/10/17 09:45			2024/10/17 09:45			2024/10/17 09:50		
COC Number		C#738621-01-01			C#738621-01-01			C#738621-01-01		
	UNITS	CB-2	RDL	QC Batch	CB-2 Lab-Dup	RDL	QC Batch	EB-1	RDL	QC Batch
Elements										
Dissolved Cadmium (Cd)	ug/L	0.26	0.020	B571778				0.48	0.020	B571778
Lab Filtered Elements										
Dissolved Aluminum (Al)	mg/L	0.012	0.0030	B572595	0.0091	0.0030	B572595	0.019	0.0030	B572595
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B572595	<0.00060	0.00060	B572595	<0.00060	0.00060	B572595
Dissolved Arsenic (As)	mg/L	0.00034	0.00020	B572595	0.00026	0.00020	B572595	0.00023	0.00020	B572595
Dissolved Barium (Ba)	mg/L	0.012	0.010	B573647				0.013	0.010	B573647
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B572595	<0.0010	0.0010	B572595	<0.0010	0.0010	B572595
Dissolved Boron (B)	mg/L	<0.020	0.020	B573647				<0.020	0.020	B573647
Dissolved Calcium (Ca)	mg/L	36	0.30	B573647				42	0.30	B573647
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B572595	<0.0010	0.0010	B572595	<0.0010	0.0010	B572595
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B572595	<0.00030	0.00030	B572595	0.00039	0.00030	B572595
Dissolved Copper (Cu)	mg/L	0.0087	0.0010	B572595	0.0080	0.0010	B572595	0.015	0.0010	B572595
Dissolved Iron (Fe)	mg/L	2.5	0.060	B573647				1.6	0.060	B573647
Dissolved Lead (Pb)	mg/L	0.00043	0.00020	B572595	<0.00020	0.00020	B572595	<0.00020	0.00020	B572595
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B573647				<0.020	0.020	B573647
Dissolved Magnesium (Mg)	mg/L	6.3	0.20	B573647				7.1	0.20	B573647
Dissolved Manganese (Mn)	mg/L	0.058	0.0040	B573647				0.042	0.0040	B573647
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B572595	<0.00020	0.00020	B572595	<0.00020	0.00020	B572595
Dissolved Nickel (Ni)	mg/L	0.00095	0.00050	B572595	0.00094	0.00050	B572595	0.0012	0.00050	B572595
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B573647				<0.10	0.10	B573647
Dissolved Potassium (K)	mg/L	3.6	0.30	B573647				3.7	0.30	B573647
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B572595	<0.00020	0.00020	B572595	<0.00020	0.00020	B572595
Dissolved Silicon (Si)	mg/L	0.65	0.50	B573647				<0.50	0.50	B573647
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B572595	<0.00010	0.00010	B572595	<0.00010	0.00010	B572595
Dissolved Sodium (Na)	mg/L	3.1	0.50	B573647				3.2	0.50	B573647
Dissolved Strontium (Sr)	mg/L	0.049	0.020	B573647				0.053	0.020	B573647
Dissolved Sulphur (S)	mg/L	32	0.20	B573647				37	0.20	B573647
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B572595	<0.00020	0.00020	B572595	<0.00020	0.00020	B572595
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B572595	<0.0010	0.0010	B572595	<0.0010	0.0010	B572595
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B572595	<0.0010	0.0010	B572595	<0.0010	0.0010	B572595
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B572595	<0.00010	0.00010	B572595	<0.00010	0.00010	B572595

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF660			CYF660			CYF661		
Sampling Date		2024/10/17 09:45			2024/10/17 09:45			2024/10/17 09:50		
COC Number		C#738621-01-01			C#738621-01-01			C#738621-01-01		
	UNITS	**CB-2**	**RDL**	**QC Batch**	**CB-2 Lab-Dup**	**RDL**	**QC Batch**	**EB-1**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B572595	<0.0010	0.0010	B572595	<0.0010	0.0010	B572595
Dissolved Zinc (Zn)	mg/L	0.078	0.0030	B572595	0.075	0.0030	B572595	0.16	0.0030	B572595

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF662		CYF663		CYF664		
Sampling Date		2024/10/17 09:55		2024/10/17 10:25		2024/10/17 10:20		
COC Number		C#738621-01-01		C#738621-01-01		C#738621-01-01		
	UNITS	EB-2	QC Batch	NB-1	QC Batch	NB-2	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	0.46	B571778	0.28	B571778	0.28	0.020	B571778
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.018	B572595	0.012	B572594	0.012	0.0030	B572594
Dissolved Antimony (Sb)	mg/L	<0.00060	B572595	<0.00060	B572594	<0.00060	0.00060	B572594
Dissolved Arsenic (As)	mg/L	0.00030	B572595	0.00030	B572594	0.00030	0.00020	B572594
Dissolved Barium (Ba)	mg/L	0.013	B573647	0.011	B573647	0.012	0.010	B573477
Dissolved Beryllium (Be)	mg/L	<0.0010	B572595	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Boron (B)	mg/L	<0.020	B573647	<0.020	B573647	<0.020	0.020	B573477
Dissolved Calcium (Ca)	mg/L	44	B573647	40	B573647	41	0.30	B573477
Dissolved Chromium (Cr)	mg/L	<0.0010	B572595	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Cobalt (Co)	mg/L	0.00038	B572595	<0.00030	B572594	<0.00030	0.00030	B572594
Dissolved Copper (Cu)	mg/L	0.013	B572595	0.0078	B572594	0.0078	0.0010	B572594
Dissolved Iron (Fe)	mg/L	1.4	B573647	2.2	B573647	2.4	0.060	B573477
Dissolved Lead (Pb)	mg/L	<0.00020	B572595	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Lithium (Li)	mg/L	<0.020	B573647	<0.020	B573647	<0.020	0.020	B573477
Dissolved Magnesium (Mg)	mg/L	7.2	B573647	6.9	B573647	7.5	0.20	B573477
Dissolved Manganese (Mn)	mg/L	0.038	B573647	0.058	B573647	0.064	0.0040	B573477
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B572595	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Nickel (Ni)	mg/L	0.0015	B572595	0.00097	B572594	0.0017	0.00050	B572594
Dissolved Phosphorus (P)	mg/L	<0.10	B573647	<0.10	B573647	<0.10	0.10	B573477
Dissolved Potassium (K)	mg/L	3.8	B573647	3.5	B573647	3.6	0.30	B573477
Dissolved Selenium (Se)	mg/L	<0.00020	B572595	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Silicon (Si)	mg/L	<0.50	B573647	0.60	B573647	0.73	0.50	B573477
Dissolved Silver (Ag)	mg/L	<0.00010	B572595	<0.00010	B572594	<0.00010	0.00010	B572594
Dissolved Sodium (Na)	mg/L	3.3	B573647	3.0	B573647	3.1	0.50	B573477
Dissolved Strontium (Sr)	mg/L	0.055	B573647	0.050	B573647	0.042	0.020	B573477
Dissolved Sulphur (S)	mg/L	38	B573647	37	B573647	41	0.20	B573477
Dissolved Thallium (Tl)	mg/L	<0.00020	B572595	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Tin (Sn)	mg/L	<0.0010	B572595	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Titanium (Ti)	mg/L	<0.0010	B572595	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Uranium (U)	mg/L	<0.00010	B572595	<0.00010	B572594	<0.00010	0.00010	B572594
Dissolved Vanadium (V)	mg/L	<0.0010	B572595	<0.0010	B572594	<0.0010	0.0010	B572594
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF662		CYF663		CYF664		
Sampling Date		2024/10/17 09:55		2024/10/17 10:25		2024/10/17 10:20		
COC Number		C#738621-01-01		C#738621-01-01		C#738621-01-01		
	UNITS	**EB-2**	**QC Batch**	**NB-1**	**QC Batch**	**NB-2**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.15	B572595	0.078	B572594	0.075	0.0030	B572594
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF664			CYF665		CYF666		
Sampling Date		2024/10/17 10:20			2024/10/17 10:30		2024/10/17 08:55		
COC Number		C#738621-01-01			C#738621-01-01		C#738621-01-01		
	UNITS	NB-2 Lab-Dup	RDL	QC Batch	CLD	QC Batch	CL-3 SFC	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L				0.26	B571778	<0.020	0.020	B571778
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L				0.013	B572595	0.017	0.0030	B572594
Dissolved Antimony (Sb)	mg/L				<0.00060	B572595	<0.00060	0.00060	B572594
Dissolved Arsenic (As)	mg/L				0.00031	B572595	0.00038	0.00020	B572594
Dissolved Barium (Ba)	mg/L	0.011	0.010	B573477	0.011	B573647	<0.010	0.010	B573647
Dissolved Beryllium (Be)	mg/L				<0.0010	B572595	<0.0010	0.0010	B572594
Dissolved Boron (B)	mg/L	<0.020	0.020	B573477	<0.020	B573647	<0.020	0.020	B573647
Dissolved Calcium (Ca)	mg/L	41	0.30	B573477	41	B573647	14	0.30	B573647
Dissolved Chromium (Cr)	mg/L				<0.0010	B572595	<0.0010	0.0010	B572594
Dissolved Cobalt (Co)	mg/L				<0.00030	B572595	<0.00030	0.00030	B572594
Dissolved Copper (Cu)	mg/L				0.0072	B572595	0.0054	0.0010	B572594
Dissolved Iron (Fe)	mg/L	2.5	0.060	B573477	2.3	B573647	0.28	0.060	B573647
Dissolved Lead (Pb)	mg/L				<0.00020	B572595	<0.00020	0.00020	B572594
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B573477	<0.020	B573647	<0.020	0.020	B573647
Dissolved Magnesium (Mg)	mg/L	7.5	0.20	B573477	7.0	B573647	3.7	0.20	B573647
Dissolved Manganese (Mn)	mg/L	0.064	0.0040	B573477	0.054	B573647	<0.0040	0.0040	B573647
Dissolved Molybdenum (Mo)	mg/L				<0.00020	B572595	<0.00020	0.00020	B572594
Dissolved Nickel (Ni)	mg/L				0.00090	B572595	<0.00050	0.00050	B572594
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B573477	<0.10	B573647	<0.10	0.10	B573647
Dissolved Potassium (K)	mg/L	3.6	0.30	B573477	3.5	B573647	1.7	0.30	B573647
Dissolved Selenium (Se)	mg/L				<0.00020	B572595	<0.00020	0.00020	B572594
Dissolved Silicon (Si)	mg/L	0.72	0.50	B573477	0.60	B573647	0.63	0.50	B573647
Dissolved Silver (Ag)	mg/L				<0.00010	B572595	<0.00010	0.00010	B572594
Dissolved Sodium (Na)	mg/L	3.1	0.50	B573477	3.0	B573647	2.2	0.50	B573647
Dissolved Strontium (Sr)	mg/L	0.042	0.020	B573477	0.051	B573647	0.032	0.020	B573647
Dissolved Sulphur (S)	mg/L	41	0.20	B573477	36	B573647	7.3	0.20	B573647
Dissolved Thallium (Tl)	mg/L				<0.00020	B572595	<0.00020	0.00020	B572594
Dissolved Tin (Sn)	mg/L				<0.0010	B572595	<0.0010	0.0010	B572594
Dissolved Titanium (Ti)	mg/L				<0.0010	B572595	<0.0010	0.0010	B572594
Dissolved Uranium (U)	mg/L				<0.00010	B572595	<0.00010	0.00010	B572594

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF664			CYF665		CYF666		
Sampling Date		2024/10/17 10:20			2024/10/17 10:30		2024/10/17 08:55		
COC Number		C#738621-01-01			C#738621-01-01		C#738621-01-01		
	UNITS	**NB-2 Lab-Dup**	**RDL**	**QC Batch**	**CLD**	**QC Batch**	**CL-3 SFC**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L				<0.0010	B572595	<0.0010	0.0010	B572594
Dissolved Zinc (Zn)	mg/L				0.070	B572595	0.010	0.0030	B572594

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF667		CYF668	CYF669	CYF670		
Sampling Date		2024/10/17 08:50		2024/10/17 09:05	2024/10/17 09:00	2024/10/17 08:45		
COC Number		C#738621-01-01		C#738621-01-01	C#738621-01-01	C#738621-01-01		
	UNITS	CL-3 BTM	QC Batch	CL-7 SFC	CL-7 BTM	CL-8 SFC	RDL	QC Batch
Elements								
Dissolved Cadmium (Cd)	ug/L	<0.020	B571778	<0.020	<0.020	0.025	0.020	B572075
Lab Filtered Elements								
Dissolved Aluminum (Al)	mg/L	0.016	B572594	0.015	0.018	0.016	0.0030	B572594
Dissolved Antimony (Sb)	mg/L	<0.00060	B572594	<0.00060	<0.00060	<0.00060	0.00060	B572594
Dissolved Arsenic (As)	mg/L	0.00042	B572594	0.00038	0.00038	0.00040	0.00020	B572594
Dissolved Barium (Ba)	mg/L	<0.010	B573647	<0.010	<0.010	<0.010	0.010	B573647
Dissolved Beryllium (Be)	mg/L	<0.0010	B572594	<0.0010	<0.0010	<0.0010	0.0010	B572594
Dissolved Boron (B)	mg/L	<0.020	B573647	<0.020	<0.020	<0.020	0.020	B573647
Dissolved Calcium (Ca)	mg/L	14	B573647	14	14	15	0.30	B573647
Dissolved Chromium (Cr)	mg/L	<0.0010	B572594	<0.0010	<0.0010	<0.0010	0.0010	B572594
Dissolved Cobalt (Co)	mg/L	<0.00030	B572594	<0.00030	<0.00030	<0.00030	0.00030	B572594
Dissolved Copper (Cu)	mg/L	0.0059	B572594	0.0055	0.0060	0.0054	0.0010	B572594
Dissolved Iron (Fe)	mg/L	0.28	B573647	0.32	0.33	0.30	0.060	B573647
Dissolved Lead (Pb)	mg/L	<0.00020	B572594	<0.00020	0.00030	<0.00020	0.00020	B572594
Dissolved Lithium (Li)	mg/L	<0.020	B573647	<0.020	<0.020	<0.020	0.020	B573647
Dissolved Magnesium (Mg)	mg/L	3.7	B573647	3.6	3.7	3.7	0.20	B573647
Dissolved Manganese (Mn)	mg/L	<0.0040	B573647	<0.0040	<0.0040	<0.0040	0.0040	B573647
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B572594	<0.00020	<0.00020	<0.00020	0.00020	B572594
Dissolved Nickel (Ni)	mg/L	<0.00050	B572594	0.00050	<0.00050	0.00053	0.00050	B572594
Dissolved Phosphorus (P)	mg/L	<0.10	B573647	<0.10	<0.10	<0.10	0.10	B573647
Dissolved Potassium (K)	mg/L	1.8	B573647	1.7	1.8	1.8	0.30	B573647
Dissolved Selenium (Se)	mg/L	<0.00020	B572594	<0.00020	<0.00020	<0.00020	0.00020	B572594
Dissolved Silicon (Si)	mg/L	0.63	B573647	0.63	0.65	0.66	0.50	B573647
Dissolved Silver (Ag)	mg/L	<0.00010	B572594	<0.00010	<0.00010	<0.00010	0.00010	B572594
Dissolved Sodium (Na)	mg/L	2.3	B573647	2.2	2.3	2.3	0.50	B573647
Dissolved Strontium (Sr)	mg/L	0.032	B573647	0.032	0.032	0.032	0.020	B573647
Dissolved Sulphur (S)	mg/L	7.2	B573647	7.4	7.4	7.3	0.20	B573647
Dissolved Thallium (Tl)	mg/L	<0.00020	B572594	<0.00020	<0.00020	<0.00020	0.00020	B572594
Dissolved Tin (Sn)	mg/L	<0.0010	B572594	<0.0010	<0.0010	<0.0010	0.0010	B572594
Dissolved Titanium (Ti)	mg/L	<0.0010	B572594	<0.0010	<0.0010	<0.0010	0.0010	B572594
Dissolved Uranium (U)	mg/L	<0.00010	B572594	<0.00010	<0.00010	<0.00010	0.00010	B572594
Dissolved Vanadium (V)	mg/L	<0.0010	B572594	<0.0010	<0.0010	<0.0010	0.0010	B572594
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF667		CYF668	CYF669	CYF670		
Sampling Date		2024/10/17 08:50		2024/10/17 09:05	2024/10/17 09:00	2024/10/17 08:45		
COC Number		C#738621-01-01		C#738621-01-01	C#738621-01-01	C#738621-01-01		
	UNITS	**CL-3 BTM**	**QC Batch**	**CL-7 SFC**	**CL-7 BTM**	**CL-8 SFC**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.011	B572594	0.011	0.011	0.011	0.0030	B572594
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF671	CYF672		CYF673		
Sampling Date		2024/10/17 08:40	2024/10/17 09:15		2024/10/17 09:10		
COC Number		C#738621-01-01	C#738621-01-01		C#738621-01-01		
	UNITS	CL-8 BTM	CL-2 SFC	QC Batch	CL-2 BTM	RDL	QC Batch
Elements							
Dissolved Cadmium (Cd)	ug/L	<0.020	<0.020	B572075	0.023	0.020	B572075
Lab Filtered Elements							
Dissolved Aluminum (Al)	mg/L	0.016	0.014	B572594	0.018	0.0030	B572594
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	B572594	<0.00060	0.00060	B572594
Dissolved Arsenic (As)	mg/L	0.00044	0.00051	B572594	0.00041	0.00020	B572594
Dissolved Barium (Ba)	mg/L	<0.010	0.010	B573647	<0.010	0.010	B573654
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Boron (B)	mg/L	<0.020	<0.020	B573647	<0.020	0.020	B573654
Dissolved Calcium (Ca)	mg/L	14	15	B573647	15	0.30	B573654
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Cobalt (Co)	mg/L	<0.00030	<0.00030	B572594	<0.00030	0.00030	B572594
Dissolved Copper (Cu)	mg/L	0.0058	0.0058	B572594	0.0066	0.0010	B572594
Dissolved Iron (Fe)	mg/L	0.31	0.33	B573647	0.29	0.060	B573654
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Lithium (Li)	mg/L	<0.020	<0.020	B573647	<0.020	0.020	B573654
Dissolved Magnesium (Mg)	mg/L	3.7	3.8	B573647	3.7	0.20	B573654
Dissolved Manganese (Mn)	mg/L	<0.0040	<0.0040	B573647	<0.0040	0.0040	B573654
Dissolved Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00053	B572594	<0.00050	0.00050	B572594
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	B573647	<0.10	0.10	B573654
Dissolved Potassium (K)	mg/L	1.8	1.8	B573647	1.8	0.30	B573654
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Silicon (Si)	mg/L	0.67	0.71	B573647	0.70	0.50	B573654
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	B572594	<0.00010	0.00010	B572594
Dissolved Sodium (Na)	mg/L	2.3	2.3	B573647	2.3	0.50	B573654
Dissolved Strontium (Sr)	mg/L	0.032	0.033	B573647	0.033	0.020	B573654
Dissolved Sulphur (S)	mg/L	7.5	7.4	B573647	7.5	0.20	B573654
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Uranium (U)	mg/L	<0.00010	<0.00010	B572594	<0.00010	0.00010	B572594
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	B572594	<0.0010	0.0010	B572594

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF671	CYF672		CYF673		
Sampling Date		2024/10/17 08:40	2024/10/17 09:15		2024/10/17 09:10		
COC Number		C#738621-01-01	C#738621-01-01		C#738621-01-01		
	UNITS	**CL-8 BTM**	**CL-2 SFC**	**QC Batch**	**CL-2 BTM**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.011	0.011	B572594	0.0088	0.0030	B572594
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF673			CYF674		CYF675		
Sampling Date		2024/10/17 09:10			2024/10/17 08:35		2024/10/17 08:30		
COC Number		C#738621-01-01			C#738621-01-01		C#738621-01-01		
	UNITS	CL-2 BTM Lab-Dup	RDL	QC Batch	CL-4 SFC	QC Batch	CL-4 BTM	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L				<0.020	B572075	0.020	0.020	B572075
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.019	0.0030	B572594	0.014	B572594	0.015	0.0030	B572594
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B572594	<0.00060	B572594	<0.00060	0.00060	B572594
Dissolved Arsenic (As)	mg/L	0.00039	0.00020	B572594	0.00043	B572594	0.00043	0.00020	B572594
Dissolved Barium (Ba)	mg/L				0.010	B573647	<0.010	0.010	B573654
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B572594	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Boron (B)	mg/L				<0.020	B573647	<0.020	0.020	B573654
Dissolved Calcium (Ca)	mg/L				14	B573647	14	0.30	B573654
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B572594	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B572594	<0.00030	B572594	<0.00030	0.00030	B572594
Dissolved Copper (Cu)	mg/L	0.0067	0.0010	B572594	0.0051	B572594	0.0054	0.0010	B572594
Dissolved Iron (Fe)	mg/L				0.22	B573647	0.20	0.060	B573654
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B572594	0.00088	B572594	<0.00020	0.00020	B572594
Dissolved Lithium (Li)	mg/L				<0.020	B573647	<0.020	0.020	B573654
Dissolved Magnesium (Mg)	mg/L				3.7	B573647	3.6	0.20	B573654
Dissolved Manganese (Mn)	mg/L				<0.0040	B573647	<0.0040	0.0040	B573654
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B572594	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Nickel (Ni)	mg/L	0.00050	0.00050	B572594	<0.00050	B572594	<0.00050	0.00050	B572594
Dissolved Phosphorus (P)	mg/L				<0.10	B573647	<0.10	0.10	B573654
Dissolved Potassium (K)	mg/L				1.7	B573647	1.7	0.30	B573654
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B572594	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Silicon (Si)	mg/L				0.60	B573647	0.58	0.50	B573654
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B572594	<0.00010	B572594	<0.00010	0.00010	B572594
Dissolved Sodium (Na)	mg/L				2.3	B573647	2.2	0.50	B573654
Dissolved Strontium (Sr)	mg/L				0.032	B573647	0.032	0.020	B573654
Dissolved Sulphur (S)	mg/L				6.7	B573647	6.7	0.20	B573654
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B572594	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B572594	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B572594	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B572594	<0.00010	B572594	<0.00010	0.00010	B572594

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF673			CYF674		CYF675		
Sampling Date		2024/10/17 09:10			2024/10/17 08:35		2024/10/17 08:30		
COC Number		C#738621-01-01			C#738621-01-01		C#738621-01-01		
	UNITS	**CL-2 BTM Lab-Dup**	**RDL**	**QC Batch**	**CL-4 SFC**	**QC Batch**	**CL-4 BTM**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B572594	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Zinc (Zn)	mg/L	0.0095	0.0030	B572594	0.0096	B572594	0.010	0.0030	B572594

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF676		CYF677			CYF677		
Sampling Date		2024/10/17 08:25		2024/10/17 08:20			2024/10/17 08:20		
COC Number		C#738621-01-01		C#738621-01-01			C#738621-01-01		
	UNITS	CL-5 SFC	QC Batch	CL-5 BTM	RDL	QC Batch	CL-5 BTM Lab-Dup	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	<0.020	B572075	<0.020	0.020	B572075			
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.014	B572594	0.016	0.0030	B572594			
Dissolved Antimony (Sb)	mg/L	<0.00060	B572594	<0.00060	0.00060	B572594			
Dissolved Arsenic (As)	mg/L	0.00042	B572594	0.00047	0.00020	B572594			
Dissolved Barium (Ba)	mg/L	<0.010	B573647	0.011	0.010	B573647	0.010	0.010	B573647
Dissolved Beryllium (Be)	mg/L	<0.0010	B572594	<0.0010	0.0010	B572594			
Dissolved Boron (B)	mg/L	<0.020	B573647	<0.020	0.020	B573647	<0.020	0.020	B573647
Dissolved Calcium (Ca)	mg/L	13	B573647	13	0.30	B573647	13	0.30	B573647
Dissolved Chromium (Cr)	mg/L	<0.0010	B572594	<0.0010	0.0010	B572594			
Dissolved Cobalt (Co)	mg/L	<0.00030	B572594	<0.00030	0.00030	B572594			
Dissolved Copper (Cu)	mg/L	0.0048	B572594	0.0048	0.0010	B572594			
Dissolved Iron (Fe)	mg/L	0.14	B573647	0.14	0.060	B573647	0.12	0.060	B573647
Dissolved Lead (Pb)	mg/L	<0.00020	B574770	<0.00020	0.00020	B572594			
Dissolved Lithium (Li)	mg/L	<0.020	B573647	<0.020	0.020	B573647	<0.020	0.020	B573647
Dissolved Magnesium (Mg)	mg/L	3.5	B573647	3.6	0.20	B573647	3.5	0.20	B573647
Dissolved Manganese (Mn)	mg/L	<0.0040	B573647	<0.0040	0.0040	B573647	<0.0040	0.0040	B573647
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B572594	<0.00020	0.00020	B572594			
Dissolved Nickel (Ni)	mg/L	<0.00050	B572594	<0.00050	0.00050	B572594			
Dissolved Phosphorus (P)	mg/L	<0.10	B573647	<0.10	0.10	B573647	<0.10	0.10	B573647
Dissolved Potassium (K)	mg/L	1.7	B573647	1.7	0.30	B573647	1.7	0.30	B573647
Dissolved Selenium (Se)	mg/L	<0.00020	B572594	<0.00020	0.00020	B572594			
Dissolved Silicon (Si)	mg/L	0.52	B573647	0.60	0.50	B573647	0.55	0.50	B573647
Dissolved Silver (Ag)	mg/L	<0.00010	B572594	<0.00010	0.00010	B572594			
Dissolved Sodium (Na)	mg/L	2.2	B573647	2.3	0.50	B573647	2.2	0.50	B573647
Dissolved Strontium (Sr)	mg/L	0.031	B573647	0.032	0.020	B573647	0.031	0.020	B573647
Dissolved Sulphur (S)	mg/L	6.1	B573647	6.1	0.20	B573647	6.1	0.20	B573647
Dissolved Thallium (Tl)	mg/L	<0.00020	B572594	<0.00020	0.00020	B572594			
Dissolved Tin (Sn)	mg/L	<0.0010	B572594	<0.0010	0.0010	B572594			
Dissolved Titanium (Ti)	mg/L	<0.0010	B572594	<0.0010	0.0010	B572594			
Dissolved Uranium (U)	mg/L	<0.00010	B572594	<0.00010	0.00010	B572594			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF676		CYF677			CYF677		
Sampling Date		2024/10/17 08:25		2024/10/17 08:20			2024/10/17 08:20		
COC Number		C#738621-01-01		C#738621-01-01			C#738621-01-01		
	UNITS	**CL-5 SFC**	**QC Batch**	**CL-5 BTM**	**RDL**	**QC Batch**	**CL-5 BTM Lab-Dup**	**RDL**	**QC Batch**
Dissolved Vanadium (V)	mg/L	<0.0010	B572594	<0.0010	0.0010	B572594			
Dissolved Zinc (Zn)	mg/L	0.0089	B572594	0.0087	0.0030	B572594			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF678		CYF679		CYF680	CYF681		
Sampling Date		2024/10/17 08:10		2024/10/17 08:15		2024/10/17	2024/10/17		
COC Number		C#738621-01-01		C#738621-01-01		C#738621-01-01	C#738621-01-01		
	UNITS	CL-6 SFC	QC Batch	CL-6 BTM	QC Batch	SW-134	SW-135	RDL	QC Batch
Elements									
Dissolved Cadmium (Cd)	ug/L	<0.020	B572075	<0.020	B572075	<0.020	0.46	0.020	B572075
Lab Filtered Elements									
Dissolved Aluminum (Al)	mg/L	0.0098	B572594	0.0089	B572594	0.016	0.019	0.0030	B572594
Dissolved Antimony (Sb)	mg/L	<0.00060	B572594	<0.00060	B572594	<0.00060	<0.00060	0.00060	B572594
Dissolved Arsenic (As)	mg/L	0.00050	B572594	0.00046	B572594	0.00044	0.00028	0.00020	B572594
Dissolved Barium (Ba)	mg/L	<0.010	B573654	<0.010	B573654	0.010	0.013	0.010	B573654
Dissolved Beryllium (Be)	mg/L	<0.0010	B572594	<0.0010	B572594	<0.0010	<0.0010	0.0010	B572594
Dissolved Boron (B)	mg/L	<0.020	B573654	<0.020	B573654	<0.020	<0.020	0.020	B573654
Dissolved Calcium (Ca)	mg/L	12	B573654	12	B573654	14	42	0.30	B573654
Dissolved Chromium (Cr)	mg/L	<0.0010	B572594	<0.0010	B572594	<0.0010	<0.0010	0.0010	B572594
Dissolved Cobalt (Co)	mg/L	<0.00030	B572594	<0.00030	B572594	<0.00030	0.00040	0.00030	B572594
Dissolved Copper (Cu)	mg/L	0.0037	B572594	0.0037	B572594	0.0054	0.015	0.0010	B572594
Dissolved Iron (Fe)	mg/L	0.073	B573654	<0.060	B573654	0.33	1.6	0.060	B573654
Dissolved Lead (Pb)	mg/L	<0.00020	B572594	<0.00020	B574770	<0.00020	<0.00020	0.00020	B572594
Dissolved Lithium (Li)	mg/L	<0.020	B573654	<0.020	B573654	<0.020	<0.020	0.020	B573654
Dissolved Magnesium (Mg)	mg/L	3.3	B573654	3.4	B573654	3.7	7.1	0.20	B573654
Dissolved Manganese (Mn)	mg/L	<0.0040	B573654	<0.0040	B573654	<0.0040	0.044	0.0040	B573654
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B572594	<0.00020	B572594	<0.00020	<0.00020	0.00020	B572594
Dissolved Nickel (Ni)	mg/L	<0.00050	B572594	0.00056	B572594	<0.00050	0.0013	0.00050	B572594
Dissolved Phosphorus (P)	mg/L	<0.10	B573654	<0.10	B573654	<0.10	<0.10	0.10	B573654
Dissolved Potassium (K)	mg/L	1.6	B573654	1.6	B573654	1.8	3.7	0.30	B573654
Dissolved Selenium (Se)	mg/L	<0.00020	B572594	<0.00020	B572594	<0.00020	<0.00020	0.00020	B572594
Dissolved Silicon (Si)	mg/L	<0.50	B573654	<0.50	B573654	0.66	<0.50	0.50	B573654
Dissolved Silver (Ag)	mg/L	<0.00010	B572594	<0.00010	B572594	<0.00010	<0.00010	0.00010	B572594
Dissolved Sodium (Na)	mg/L	2.2	B573654	2.2	B573654	2.3	3.2	0.50	B573654
Dissolved Strontium (Sr)	mg/L	0.030	B573654	0.030	B573654	0.032	0.053	0.020	B573654
Dissolved Sulphur (S)	mg/L	4.8	B573654	4.8	B573654	7.3	37	0.20	B573654
Dissolved Thallium (Tl)	mg/L	<0.00020	B572594	<0.00020	B572594	<0.00020	<0.00020	0.00020	B572594
Dissolved Tin (Sn)	mg/L	<0.0010	B572594	<0.0010	B572594	<0.0010	<0.0010	0.0010	B572594
Dissolved Titanium (Ti)	mg/L	<0.0010	B572594	<0.0010	B572594	<0.0010	<0.0010	0.0010	B572594
Dissolved Uranium (U)	mg/L	<0.00010	B572594	<0.00010	B572594	<0.00010	<0.00010	0.00010	B572594
Dissolved Vanadium (V)	mg/L	<0.0010	B572594	<0.0010	B572594	<0.0010	<0.0010	0.0010	B572594

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF678		CYF679		CYF680	CYF681		
Sampling Date		2024/10/17 08:10		2024/10/17 08:15		2024/10/17	2024/10/17		
COC Number		C#738621-01-01		C#738621-01-01		C#738621-01-01	C#738621-01-01		
	UNITS	**CL-6 SFC**	**QC Batch**	**CL-6 BTM**	**QC Batch**	**SW-134**	**SW-135**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.0074	B572594	0.0062	B572594	0.010	0.16	0.0030	B572594
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF682		CYF683		
Sampling Date		2024/10/17		2024/10/17		
COC Number		C#738621-01-01		C#738621-01-01		
	UNITS	SW-136	QC Batch	TRIP BLANK	RDL	QC Batch
Elements						
Dissolved Cadmium (Cd)	ug/L	0.27	B572075	<0.020	0.020	B572075
Lab Filtered Elements						
Dissolved Aluminum (Al)	mg/L	0.012	B572594	<0.0030	0.0030	B572594
Dissolved Antimony (Sb)	mg/L	<0.00060	B572594	<0.00060	0.00060	B572594
Dissolved Arsenic (As)	mg/L	0.00033	B572594	<0.00020	0.00020	B572594
Dissolved Barium (Ba)	mg/L	0.012	B573654	<0.010	0.010	B573647
Dissolved Beryllium (Be)	mg/L	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Boron (B)	mg/L	<0.020	B573654	<0.020	0.020	B573647
Dissolved Calcium (Ca)	mg/L	41	B573654	<0.30	0.30	B573647
Dissolved Chromium (Cr)	mg/L	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Cobalt (Co)	mg/L	<0.00030	B572594	<0.00030	0.00030	B572594
Dissolved Copper (Cu)	mg/L	0.0076	B572594	<0.0010	0.0010	B572594
Dissolved Iron (Fe)	mg/L	2.3	B573654	<0.060	0.060	B573647
Dissolved Lead (Pb)	mg/L	0.00042	B572594	<0.00020	0.00020	B572594
Dissolved Lithium (Li)	mg/L	<0.020	B573654	<0.020	0.020	B573647
Dissolved Magnesium (Mg)	mg/L	7.2	B573654	<0.20	0.20	B573647
Dissolved Manganese (Mn)	mg/L	0.059	B573654	<0.0040	0.0040	B573647
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Nickel (Ni)	mg/L	0.00090	B572594	<0.00050	0.00050	B572594
Dissolved Phosphorus (P)	mg/L	<0.10	B573654	<0.10	0.10	B573647
Dissolved Potassium (K)	mg/L	3.6	B573654	<0.30	0.30	B573647
Dissolved Selenium (Se)	mg/L	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Silicon (Si)	mg/L	0.61	B573654	<0.50	0.50	B573647
Dissolved Silver (Ag)	mg/L	<0.00010	B572594	<0.00010	0.00010	B572594
Dissolved Sodium (Na)	mg/L	3.1	B573654	<0.50	0.50	B573647
Dissolved Strontium (Sr)	mg/L	0.051	B573654	<0.020	0.020	B573647
Dissolved Sulphur (S)	mg/L	35	B573654	<0.20	0.20	B573647
Dissolved Thallium (Tl)	mg/L	<0.00020	B572594	<0.00020	0.00020	B572594
Dissolved Tin (Sn)	mg/L	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Titanium (Ti)	mg/L	<0.0010	B572594	<0.0010	0.0010	B572594
Dissolved Uranium (U)	mg/L	<0.00010	B572594	<0.00010	0.00010	B572594
Dissolved Vanadium (V)	mg/L	<0.0010	B572594	<0.0010	0.0010	B572594

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REG. METALS (CCME/AT1) – DISS. LAB FILT.

Bureau Veritas ID		CYF682		CYF683		
Sampling Date		2024/10/17		2024/10/17		
COC Number		C#738621-01-01		C#738621-01-01		
	UNITS	**SW-136**	**QC Batch**	**TRIP BLANK**	**RDL**	**QC Batch**
Dissolved Zinc (Zn)	mg/L	0.075	B572594	<0.0030	0.0030	B572594
RDL = Reportable Detection Limit						

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CYF656	CYF657		CYF658	CYF659		
Sampling Date		2024/10/17 10:55	2024/10/17 09:35		2024/10/17 09:30	2024/10/17 09:40		
COC Number		C#738621-01-01	C#738621-01-01		C#738621-01-01	C#738621-01-01		
	UNITS	SC-1	SB-1	QC Batch	SB-2	CB-1	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.34	0.32	B571764	0.46	0.53	0.020	B571764
Total Aluminum (Al)	mg/L	0.042	0.11	B577187	0.13	0.14	0.0030	B576553
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B577187	<0.00060	<0.00060	0.00060	B576553
Total Arsenic (As)	mg/L	0.00034	0.00042	B577187	0.00049	0.00057	0.00020	B576553
Total Barium (Ba)	mg/L	<0.010	0.010	B577192	0.012	0.012	0.010	B576558
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B577187	<0.0010	<0.0010	0.0010	B576553
Total Boron (B)	mg/L	<0.020	<0.020	B577192	<0.020	<0.020	0.020	B576558
Total Calcium (Ca)	mg/L	8.9	31	B577192	36	37	0.30	B576558
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B577187	<0.0010	<0.0010	0.0010	B576553
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B577187	0.00044	0.00049	0.00030	B576553
Total Copper (Cu)	mg/L	0.014	0.014	B577187	0.019	0.022	0.0010	B576553
Total Iron (Fe)	mg/L	0.26	6.8	B577192	6.0	6.6	0.060	B576558
Total Lead (Pb)	mg/L	<0.00020	0.00034	B577187	0.00056	0.00058	0.00020	B576553
Total Lithium (Li)	mg/L	0.037	<0.020	B577192	<0.020	<0.020	0.020	B576558
Total Magnesium (Mg)	mg/L	2.9	5.7	B577192	6.1	6.4	0.20	B576558
Total Manganese (Mn)	mg/L	0.034	0.064	B577192	0.057	0.063	0.0040	B576558
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B577187	<0.00020	<0.00020	0.00020	B576553
Total Nickel (Ni)	mg/L	0.00054	0.0011	B577187	0.0014	0.0016	0.00050	B576553
Total Phosphorus (P)	mg/L	<0.10	<0.10	B577192	<0.10	<0.10	0.10	B576558
Total Potassium (K)	mg/L	1.6	3.2	B577192	3.3	3.5	0.30	B576558
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B577187	0.00021	0.00025	0.00020	B576553
Total Silicon (Si)	mg/L	1.1	0.99	B577192	1.0	1.0	0.50	B576558
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B577187	<0.00010	<0.00010	0.00010	B576553
Total Sodium (Na)	mg/L	3.2	2.6	B577192	3.2	3.3	0.50	B576558
Total Strontium (Sr)	mg/L	0.021	0.037	B577192	0.042	0.043	0.020	B576558
Total Sulphur (S)	mg/L	2.6	35	B577192	35	37	0.20	B576558
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B577187	<0.00020	<0.00020	0.00020	B576553
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B577187	<0.0010	<0.0010	0.0010	B576553
Total Titanium (Ti)	mg/L	0.0012	0.0046	B577187	0.0057	0.0071	0.0010	B576553
Total Uranium (U)	mg/L	<0.00010	<0.00010	B577187	<0.00010	<0.00010	0.00010	B576553
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B577187	<0.0010	<0.0010	0.0010	B576553
Total Zinc (Zn)	mg/L	0.14	0.088	B577187	0.14	0.17	0.0030	B576553

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CYF660		CYF661	CYF662	CYF663		
Sampling Date		2024/10/17 09:45		2024/10/17 09:50	2024/10/17 09:55	2024/10/17 10:25		
COC Number		C#738621-01-01		C#738621-01-01	C#738621-01-01	C#738621-01-01		
	UNITS	CB-2	QC Batch	EB-1	EB-2	NB-1	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.52	B571764	0.49	0.55	0.35	0.020	B571764
Total Aluminum (Al)	mg/L	0.14	B576553	0.15	0.16	0.12	0.0030	B577187
Total Antimony (Sb)	mg/L	<0.00060	B576553	<0.00060	<0.00060	<0.00060	0.00060	B577187
Total Arsenic (As)	mg/L	0.00053	B576553	0.00034	0.00039	0.00038	0.00020	B577187
Total Barium (Ba)	mg/L	0.012	B576558	0.012	0.012	0.010	0.010	B577192
Total Beryllium (Be)	mg/L	<0.0010	B576553	<0.0010	<0.0010	<0.0010	0.0010	B577187
Total Boron (B)	mg/L	<0.020	B576558	<0.020	<0.020	<0.020	0.020	B577192
Total Calcium (Ca)	mg/L	37	B576558	38	39	38	0.30	B577192
Total Chromium (Cr)	mg/L	<0.0010	B576553	<0.0010	<0.0010	<0.0010	0.0010	B577187
Total Cobalt (Co)	mg/L	0.00049	B576553	0.00040	0.00045	<0.00030	0.00030	B577187
Total Copper (Cu)	mg/L	0.022	B576553	0.023	0.021	0.013	0.0010	B577187
Total Iron (Fe)	mg/L	6.4	B576558	4.5	3.7	5.8	0.060	B577192
Total Lead (Pb)	mg/L	0.00062	B576553	<0.00020	<0.00020	<0.00020	0.00020	B577187
Total Lithium (Li)	mg/L	<0.020	B576558	<0.020	<0.020	<0.020	0.020	B577192
Total Magnesium (Mg)	mg/L	6.4	B576558	6.7	6.6	6.7	0.20	B577192
Total Manganese (Mn)	mg/L	0.062	B576558	0.046	0.040	0.061	0.0040	B577192
Total Molybdenum (Mo)	mg/L	<0.00020	B576553	<0.00020	<0.00020	<0.00020	0.00020	B577187
Total Nickel (Ni)	mg/L	0.0015	B576553	0.0013	0.0015	0.0011	0.00050	B577187
Total Phosphorus (P)	mg/L	<0.10	B576558	<0.10	<0.10	<0.10	0.10	B577192
Total Potassium (K)	mg/L	3.4	B576558	3.5	3.5	3.5	0.30	B577192
Total Selenium (Se)	mg/L	0.00027	B576553	<0.00020	<0.00020	<0.00020	0.00020	B577187
Total Silicon (Si)	mg/L	1.0	B576558	0.85	0.73	0.90	0.50	B577192
Total Silver (Ag)	mg/L	<0.00010	B576553	<0.00010	<0.00010	<0.00010	0.00010	B577187
Total Sodium (Na)	mg/L	3.2	B576558	2.8	2.8	2.7	0.50	B577192
Total Strontium (Sr)	mg/L	0.043	B576558	0.042	0.043	0.041	0.020	B577192
Total Sulphur (S)	mg/L	37	B576558	42	43	41	0.20	B577192
Total Thallium (Tl)	mg/L	<0.00020	B576553	<0.00020	<0.00020	<0.00020	0.00020	B577187
Total Tin (Sn)	mg/L	<0.0010	B576553	<0.0010	<0.0010	<0.0010	0.0010	B577187
Total Titanium (Ti)	mg/L	0.0064	B576553	0.0054	0.0057	0.0038	0.0010	B577187
Total Uranium (U)	mg/L	<0.00010	B576553	<0.00010	<0.00010	<0.00010	0.00010	B577187
Total Vanadium (V)	mg/L	<0.0010	B576553	<0.0010	<0.0010	<0.0010	0.0010	B577187
Total Zinc (Zn)	mg/L	0.16	B576553	0.15	0.16	0.096	0.0030	B577187
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CYF664		CYF665		CYF666		
Sampling Date		2024/10/17 10:20		2024/10/17 10:30		2024/10/17 08:55		
COC Number		C#738621-01-01		C#738621-01-01		C#738621-01-01		
	UNITS	NB-2	QC Batch	CLD	QC Batch	CL-3 SFC	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.39	B571764	0.33	B571764	0.056	0.020	B571764
Total Aluminum (Al)	mg/L	0.10	B577117	0.19	B577187	0.068	0.0030	B576553
Total Antimony (Sb)	mg/L	<0.00060	B577117	<0.00060	B577187	<0.00060	0.00060	B576553
Total Arsenic (As)	mg/L	0.00037	B577117	0.00035	B577187	0.00064	0.00020	B576553
Total Barium (Ba)	mg/L	0.011	B577123	0.011	B577192	<0.010	0.010	B576558
Total Beryllium (Be)	mg/L	<0.0010	B577117	<0.0010	B577187	<0.0010	0.0010	B576553
Total Boron (B)	mg/L	0.020	B577123	<0.020	B577192	<0.020	0.020	B576558
Total Calcium (Ca)	mg/L	37	B577123	37	B577192	14	0.30	B576558
Total Chromium (Cr)	mg/L	<0.0010	B577117	<0.0010	B577187	<0.0010	0.0010	B576553
Total Cobalt (Co)	mg/L	<0.00030	B577117	0.00037	B577187	<0.00030	0.00030	B576553
Total Copper (Cu)	mg/L	0.013	B577117	0.014	B577187	0.010	0.0010	B576553
Total Iron (Fe)	mg/L	5.9	B577123	5.8	B577192	0.52	0.060	B576558
Total Lead (Pb)	mg/L	<0.00020	B577117	0.00054	B577187	<0.00020	0.00020	B576553
Total Lithium (Li)	mg/L	<0.020	B577123	<0.020	B577192	<0.020	0.020	B576558
Total Magnesium (Mg)	mg/L	6.4	B577123	6.6	B577192	3.5	0.20	B576558
Total Manganese (Mn)	mg/L	0.065	B577123	0.061	B577192	0.013	0.0040	B576558
Total Molybdenum (Mo)	mg/L	<0.00020	B577117	<0.00020	B577187	<0.00020	0.00020	B576553
Total Nickel (Ni)	mg/L	0.0011	B577117	0.00094	B577187	0.00081	0.00050	B576553
Total Phosphorus (P)	mg/L	<0.10	B577123	<0.10	B577192	<0.10	0.10	B576558
Total Potassium (K)	mg/L	3.2	B577123	3.3	B577192	1.6	0.30	B576558
Total Selenium (Se)	mg/L	<0.00020	B577117	<0.00020	B577187	<0.00020	0.00020	B576553
Total Silicon (Si)	mg/L	0.90	B577123	1.0	B577192	0.81	0.50	B576558
Total Silver (Ag)	mg/L	<0.00010	B577117	<0.00010	B577187	<0.00010	0.00010	B576553
Total Sodium (Na)	mg/L	2.7	B577123	2.6	B577192	2.2	0.50	B576558
Total Strontium (Sr)	mg/L	0.045	B577123	0.040	B577192	0.028	0.020	B576558
Total Sulphur (S)	mg/L	38	B577123	41	B577192	8.3	0.20	B576558
Total Thallium (Tl)	mg/L	<0.00020	B577117	<0.00020	B577187	<0.00020	0.00020	B576553
Total Tin (Sn)	mg/L	<0.0010	B577117	<0.0010	B577187	<0.0010	0.0010	B576553
Total Titanium (Ti)	mg/L	0.0039	B577117	0.010	B577187	0.0021	0.0010	B576553
Total Uranium (U)	mg/L	<0.00010	B577117	<0.00010	B577187	<0.00010	0.00010	B576553
Total Vanadium (V)	mg/L	<0.0010	B577117	<0.0010	B577187	<0.0010	0.0010	B576553
Total Zinc (Zn)	mg/L	0.11	B577117	0.090	B577187	0.020	0.0030	B576553

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CYF667	CYF668	CYF669			CYF669		
Sampling Date		2024/10/17 08:50	2024/10/17 09:05	2024/10/17 09:00			2024/10/17 09:00		
COC Number		C#738621-01-01	C#738621-01-01	C#738621-01-01			C#738621-01-01		
	UNITS	CL-3 BTM	CL-7 SFC	CL-7 BTM	RDL	QC Batch	CL-7 BTM Lab-Dup	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.035	0.039	0.035	0.020	B571764			
Total Aluminum (Al)	mg/L	0.051	0.051	0.050	0.0030	B577187	0.050	0.0030	B577187
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	0.00060	B577187	<0.00060	0.00060	B577187
Total Arsenic (As)	mg/L	0.00039	0.00043	0.00031	0.00020	B577187	0.00040	0.00020	B577187
Total Barium (Ba)	mg/L	<0.010	<0.010	<0.010	0.010	B577192	<0.010	0.010	B577192
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B577187	<0.0010	0.0010	B577187
Total Boron (B)	mg/L	<0.020	<0.020	<0.020	0.020	B577192	<0.020	0.020	B577192
Total Calcium (Ca)	mg/L	13	13	13	0.30	B577192	13	0.30	B577192
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B577187	<0.0010	0.0010	B577187
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	<0.00030	0.00030	B577187	<0.00030	0.00030	B577187
Total Copper (Cu)	mg/L	0.0061	0.0066	0.0064	0.0010	B577187	0.0068	0.0010	B577187
Total Iron (Fe)	mg/L	0.58	0.61	0.62	0.060	B577192	0.62	0.060	B577192
Total Lead (Pb)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B577187	<0.00020	0.00020	B577187
Total Lithium (Li)	mg/L	<0.020	<0.020	<0.020	0.020	B577192	<0.020	0.020	B577192
Total Magnesium (Mg)	mg/L	3.4	3.5	3.5	0.20	B577192	3.4	0.20	B577192
Total Manganese (Mn)	mg/L	0.016	0.017	0.017	0.0040	B577192	0.017	0.0040	B577192
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B577187	<0.00020	0.00020	B577187
Total Nickel (Ni)	mg/L	0.00053	<0.00050	<0.00050	0.00050	B577187	<0.00050	0.00050	B577187
Total Phosphorus (P)	mg/L	<0.10	<0.10	<0.10	0.10	B577192	<0.10	0.10	B577192
Total Potassium (K)	mg/L	1.7	1.7	1.7	0.30	B577192	1.7	0.30	B577192
Total Selenium (Se)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B577187	<0.00020	0.00020	B577187
Total Silicon (Si)	mg/L	0.88	0.87	0.92	0.50	B577192	0.90	0.50	B577192
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B577187	<0.00010	0.00010	B577187
Total Sodium (Na)	mg/L	2.0	2.0	2.0	0.50	B577192	2.0	0.50	B577192
Total Strontium (Sr)	mg/L	0.026	0.026	0.027	0.020	B577192	0.026	0.020	B577192
Total Sulphur (S)	mg/L	9.2	8.2	8.2	0.20	B577192	8.1	0.20	B577192
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	0.00020	B577187	<0.00020	0.00020	B577187
Total Tin (Sn)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B577187	<0.0010	0.0010	B577187
Total Titanium (Ti)	mg/L	0.0018	0.0012	0.0019	0.0010	B577187	0.0017	0.0010	B577187
Total Uranium (U)	mg/L	<0.00010	<0.00010	<0.00010	0.00010	B577187	<0.00010	0.00010	B577187
Total Vanadium (V)	mg/L	<0.0010	<0.0010	<0.0010	0.0010	B577187	<0.0010	0.0010	B577187

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CYF667	CYF668	CYF669			CYF669		
Sampling Date		2024/10/17 08:50	2024/10/17 09:05	2024/10/17 09:00			2024/10/17 09:00		
COC Number		C#738621-01-01	C#738621-01-01	C#738621-01-01			C#738621-01-01		
	UNITS	**CL-3 BTM**	**CL-7 SFC**	**CL-7 BTM**	**RDL**	**QC Batch**	**CL-7 BTM Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.011	0.011	0.011	0.0030	B577187	0.011	0.0030	B577187

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CYF670		CYF671		CYF672		
Sampling Date		2024/10/17 08:45		2024/10/17 08:40		2024/10/17 09:15		
COC Number		C#738621-01-01		C#738621-01-01		C#738621-01-01		
	UNITS	CL-8 SFC	QC Batch	CL-8 BTM	QC Batch	CL-2 SFC	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.044	B571764	0.041	B571764	0.032	0.020	B571764
Total Aluminum (Al)	mg/L	0.063	B576553	0.055	B577117	0.054	0.0030	B577187
Total Antimony (Sb)	mg/L	<0.00060	B576553	<0.00060	B577117	<0.00060	0.00060	B577187
Total Arsenic (As)	mg/L	0.00068	B576553	0.00056	B577117	0.00042	0.00020	B577187
Total Barium (Ba)	mg/L	<0.010	B576558	<0.010	B577123	<0.010	0.010	B577192
Total Beryllium (Be)	mg/L	<0.0010	B576553	<0.0010	B577117	<0.0010	0.0010	B577187
Total Boron (B)	mg/L	<0.020	B576558	<0.020	B577123	0.024	0.020	B577192
Total Calcium (Ca)	mg/L	14	B576558	13	B577123	13	0.30	B577192
Total Chromium (Cr)	mg/L	<0.0010	B576553	<0.0010	B577117	<0.0010	0.0010	B577187
Total Cobalt (Co)	mg/L	<0.00030	B576553	<0.00030	B577117	<0.00030	0.00030	B577187
Total Copper (Cu)	mg/L	0.011	B576553	0.0083	B577117	0.0064	0.0010	B577187
Total Iron (Fe)	mg/L	0.55	B576558	0.62	B577123	0.63	0.060	B577192
Total Lead (Pb)	mg/L	0.00023	B576553	<0.00020	B577117	0.00023	0.00020	B577187
Total Lithium (Li)	mg/L	<0.020	B576558	<0.020	B577123	<0.020	0.020	B577192
Total Magnesium (Mg)	mg/L	3.6	B576558	3.4	B577123	3.4	0.20	B577192
Total Manganese (Mn)	mg/L	0.015	B576558	0.018	B577123	0.020	0.0040	B577192
Total Molybdenum (Mo)	mg/L	0.00080	B576553	<0.00020	B577117	<0.00020	0.00020	B577187
Total Nickel (Ni)	mg/L	0.00072	B576553	0.00092	B577117	<0.00050	0.00050	B577187
Total Phosphorus (P)	mg/L	<0.10	B576558	<0.10	B577123	<0.10	0.10	B577192
Total Potassium (K)	mg/L	1.7	B576558	1.6	B577123	1.7	0.30	B577192
Total Selenium (Se)	mg/L	<0.00020	B576553	<0.00020	B577117	<0.00020	0.00020	B577187
Total Silicon (Si)	mg/L	0.86	B576558	0.90	B577123	0.94	0.50	B577192
Total Silver (Ag)	mg/L	<0.00010	B576553	<0.00010	B577117	<0.00010	0.00010	B577187
Total Sodium (Na)	mg/L	2.3	B576558	2.1	B577123	2.0	0.50	B577192
Total Strontium (Sr)	mg/L	0.029	B576558	0.029	B577123	0.026	0.020	B577192
Total Sulphur (S)	mg/L	8.3	B576558	7.8	B577123	8.2	0.20	B577192
Total Thallium (Tl)	mg/L	<0.00020	B576553	<0.00020	B577117	<0.00020	0.00020	B577187
Total Tin (Sn)	mg/L	<0.0010	B576553	<0.0010	B577117	<0.0010	0.0010	B577187
Total Titanium (Ti)	mg/L	0.0017	B576553	0.0015	B577117	0.0017	0.0010	B577187
Total Uranium (U)	mg/L	<0.00010	B576553	<0.00010	B577117	<0.00010	0.00010	B577187
Total Vanadium (V)	mg/L	<0.0010	B576553	<0.0010	B577117	<0.0010	0.0010	B577187
Total Zinc (Zn)	mg/L	0.018	B576553	0.016	B577117	0.013	0.0030	B577187

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CYF673	CYF674		CYF675	CYF676		
Sampling Date		2024/10/17 09:10	2024/10/17 08:35		2024/10/17 08:30	2024/10/17 08:25		
COC Number		C#738621-01-01	C#738621-01-01		C#738621-01-01	C#738621-01-01		
	UNITS	CL-2 BTM	CL-4 SFC	QC Batch	CL-4 BTM	CL-5 SFC	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.034	0.034	B572077	0.036	0.034	0.020	B572077
Total Aluminum (Al)	mg/L	0.064	0.063	B577187	0.055	0.059	0.0030	B577117
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B577187	<0.00060	<0.00060	0.00060	B577117
Total Arsenic (As)	mg/L	0.00044	0.00046	B577187	0.00046	0.00051	0.00020	B577117
Total Barium (Ba)	mg/L	<0.010	<0.010	B577192	<0.010	<0.010	0.010	B577123
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B577187	<0.0010	<0.0010	0.0010	B577117
Total Boron (B)	mg/L	<0.020	<0.020	B577192	<0.020	0.020	0.020	B577123
Total Calcium (Ca)	mg/L	13	13	B577192	13	12	0.30	B577123
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B577187	<0.0010	<0.0010	0.0010	B577117
Total Cobalt (Co)	mg/L	<0.00030	<0.00030	B577187	<0.00030	<0.00030	0.00030	B577117
Total Copper (Cu)	mg/L	0.0095	0.0058	B577187	0.0065	0.0063	0.0010	B577117
Total Iron (Fe)	mg/L	0.65	0.50	B577192	0.48	0.37	0.060	B577123
Total Lead (Pb)	mg/L	<0.00020	0.0011	B577187	<0.00020	<0.00020	0.00020	B577117
Total Lithium (Li)	mg/L	<0.020	<0.020	B577192	<0.020	<0.020	0.020	B577123
Total Magnesium (Mg)	mg/L	3.4	3.4	B577192	3.3	3.2	0.20	B577123
Total Manganese (Mn)	mg/L	0.020	0.016	B577192	0.017	0.016	0.0040	B577123
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B577187	<0.00020	<0.00020	0.00020	B577117
Total Nickel (Ni)	mg/L	<0.00050	0.00080	B577187	0.00061	0.00062	0.00050	B577117
Total Phosphorus (P)	mg/L	<0.10	<0.10	B577192	<0.10	<0.10	0.10	B577123
Total Potassium (K)	mg/L	1.7	1.7	B577192	1.5	1.6	0.30	B577123
Total Selenium (Se)	mg/L	<0.00020	<0.00020	B577187	<0.00020	<0.00020	0.00020	B577117
Total Silicon (Si)	mg/L	0.95	0.84	B577192	0.83	0.79	0.50	B577123
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B577187	<0.00010	<0.00010	0.00010	B577117
Total Sodium (Na)	mg/L	2.0	2.0	B577192	2.0	2.0	0.50	B577123
Total Strontium (Sr)	mg/L	0.026	0.026	B577192	0.028	0.028	0.020	B577123
Total Sulphur (S)	mg/L	8.3	7.5	B577192	7.0	6.5	0.20	B577123
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B577187	<0.00020	<0.00020	0.00020	B577117
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B577187	<0.0010	<0.0010	0.0010	B577117
Total Titanium (Ti)	mg/L	0.0017	0.0019	B577187	0.0017	0.0022	0.0010	B577117
Total Uranium (U)	mg/L	<0.00010	<0.00010	B577187	<0.00010	<0.00010	0.00010	B577117
Total Vanadium (V)	mg/L	<0.0010	<0.0010	B577187	<0.0010	<0.0010	0.0010	B577117
Total Zinc (Zn)	mg/L	0.013	0.011	B577187	0.014	0.012	0.0030	B577117

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CYF677		CYF678		CYF679		
Sampling Date		2024/10/17 08:20		2024/10/17 08:10		2024/10/17 08:15		
COC Number		C#738621-01-01		C#738621-01-01		C#738621-01-01		
	UNITS	CL-5 BTM	QC Batch	CL-6 SFC	QC Batch	CL-6 BTM	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.035	B572077	0.026	B572077	0.031	0.020	B572077
Total Aluminum (Al)	mg/L	0.067	B577187	0.061	B576553	0.062	0.0030	B577117
Total Antimony (Sb)	mg/L	<0.00060	B577187	<0.00060	B576553	<0.00060	0.00060	B577117
Total Arsenic (As)	mg/L	0.00045	B577187	0.00077	B576553	0.00058	0.00020	B577117
Total Barium (Ba)	mg/L	<0.010	B577192	<0.010	B576558	<0.010	0.010	B577123
Total Beryllium (Be)	mg/L	<0.0010	B577187	<0.0010	B576553	<0.0010	0.0010	B577117
Total Boron (B)	mg/L	<0.020	B577192	<0.020	B576558	<0.020	0.020	B577123
Total Calcium (Ca)	mg/L	12	B577192	12	B576558	11	0.30	B577123
Total Chromium (Cr)	mg/L	<0.0010	B577187	<0.0010	B576553	<0.0010	0.0010	B577117
Total Cobalt (Co)	mg/L	<0.00030	B577187	<0.00030	B576553	<0.00030	0.00030	B577117
Total Copper (Cu)	mg/L	0.0057	B577187	0.010	B576553	0.0059	0.0010	B577117
Total Iron (Fe)	mg/L	0.39	B577192	0.19	B576558	0.22	0.060	B577123
Total Lead (Pb)	mg/L	0.00047	B577187	<0.00020	B576553	<0.00020	0.00020	B577117
Total Lithium (Li)	mg/L	<0.020	B577192	<0.020	B576558	<0.020	0.020	B577123
Total Magnesium (Mg)	mg/L	3.3	B577192	3.2	B576558	3.1	0.20	B577123
Total Manganese (Mn)	mg/L	0.015	B577192	0.011	B576558	0.015	0.0040	B577123
Total Molybdenum (Mo)	mg/L	<0.00020	B577187	<0.00020	B576553	<0.00020	0.00020	B577117
Total Nickel (Ni)	mg/L	0.00064	B577187	0.0019	B576553	0.00051	0.00050	B577117
Total Phosphorus (P)	mg/L	<0.10	B577192	<0.10	B576558	<0.10	0.10	B577123
Total Potassium (K)	mg/L	1.7	B577192	1.5	B576558	1.5	0.30	B577123
Total Selenium (Se)	mg/L	<0.00020	B577187	<0.00020	B576553	<0.00020	0.00020	B577117
Total Silicon (Si)	mg/L	0.81	B577192	0.60	B576558	0.66	0.50	B577123
Total Silver (Ag)	mg/L	<0.00010	B577187	<0.00010	B576553	<0.00010	0.00010	B577117
Total Sodium (Na)	mg/L	2.0	B577192	2.2	B576558	2.0	0.50	B577123
Total Strontium (Sr)	mg/L	0.026	B577192	0.027	B576558	0.027	0.020	B577123
Total Sulphur (S)	mg/L	6.9	B577192	5.4	B576558	5.1	0.20	B577123
Total Thallium (Tl)	mg/L	<0.00020	B577187	<0.00020	B576553	<0.00020	0.00020	B577117
Total Tin (Sn)	mg/L	<0.0010	B577187	<0.0010	B576553	<0.0010	0.0010	B577117
Total Titanium (Ti)	mg/L	0.0024	B577187	0.0023	B576553	0.0021	0.0010	B577117
Total Uranium (U)	mg/L	<0.00010	B577187	<0.00010	B576553	<0.00010	0.00010	B577117
Total Vanadium (V)	mg/L	<0.0010	B577187	<0.0010	B576553	<0.0010	0.0010	B577117
Total Zinc (Zn)	mg/L	0.011	B577187	0.011	B576553	0.012	0.0030	B577117

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CYF680		CYF681		CYF682		
Sampling Date		2024/10/17		2024/10/17		2024/10/17		
COC Number		C#738621-01-01		C#738621-01-01		C#738621-01-01		
	UNITS	SW-134	QC Batch	SW-135	QC Batch	SW-136	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.034	B572077	0.86	B572077	0.38	0.020	B572077
Total Aluminum (Al)	mg/L	0.064	B577187	0.23	B576553	0.10	0.0030	B577117
Total Antimony (Sb)	mg/L	<0.00060	B577187	<0.00060	B576553	<0.00060	0.00060	B577117
Total Arsenic (As)	mg/L	0.00045	B577187	0.00053	B576553	0.00041	0.00020	B577117
Total Barium (Ba)	mg/L	<0.010	B577192	0.013	B576558	0.011	0.010	B577123
Total Beryllium (Be)	mg/L	<0.0010	B577187	<0.0010	B576553	<0.0010	0.0010	B577117
Total Boron (B)	mg/L	<0.020	B577192	<0.020	B576558	<0.020	0.020	B577123
Total Calcium (Ca)	mg/L	13	B577192	42	B576558	38	0.30	B577123
Total Chromium (Cr)	mg/L	<0.0010	B577187	<0.0010	B576553	<0.0010	0.0010	B577117
Total Cobalt (Co)	mg/L	<0.00030	B577187	0.00068	B576553	0.00033	0.00030	B577117
Total Copper (Cu)	mg/L	0.0067	B577187	0.041	B576553	0.015	0.0010	B577117
Total Iron (Fe)	mg/L	0.61	B577192	4.4	B576558	6.0	0.060	B577123
Total Lead (Pb)	mg/L	0.00032	B577187	0.00041	B576553	0.00030	0.00020	B577117
Total Lithium (Li)	mg/L	<0.020	B577192	<0.020	B576558	<0.020	0.020	B577123
Total Magnesium (Mg)	mg/L	3.4	B577192	6.9	B576558	6.5	0.20	B577123
Total Manganese (Mn)	mg/L	0.017	B577192	0.045	B576558	0.065	0.0040	B577123
Total Molybdenum (Mo)	mg/L	<0.00020	B577187	<0.00020	B576553	<0.00020	0.00020	B577117
Total Nickel (Ni)	mg/L	0.00057	B577187	0.0021	B576553	0.0012	0.00050	B577117
Total Phosphorus (P)	mg/L	<0.10	B577192	<0.10	B576558	<0.10	0.10	B577123
Total Potassium (K)	mg/L	1.7	B577192	3.6	B576558	3.3	0.30	B577123
Total Selenium (Se)	mg/L	<0.00020	B577187	0.00027	B576553	<0.00020	0.00020	B577117
Total Silicon (Si)	mg/L	0.88	B577192	0.83	B576558	0.92	0.50	B577123
Total Silver (Ag)	mg/L	<0.00010	B577187	<0.00010	B576553	<0.00010	0.00010	B577117
Total Sodium (Na)	mg/L	2.0	B577192	3.3	B576558	2.8	0.50	B577123
Total Strontium (Sr)	mg/L	0.026	B577192	0.047	B576558	0.046	0.020	B577123
Total Sulphur (S)	mg/L	8.2	B577192	42	B576558	39	0.20	B577123
Total Thallium (Tl)	mg/L	<0.00020	B577187	<0.00020	B576553	<0.00020	0.00020	B577117
Total Tin (Sn)	mg/L	<0.0010	B577187	<0.0010	B576553	<0.0010	0.0010	B577117
Total Titanium (Ti)	mg/L	0.0023	B577187	0.0084	B576553	0.0040	0.0010	B577117
Total Uranium (U)	mg/L	<0.00010	B577187	<0.00010	B576553	<0.00010	0.00010	B577117
Total Vanadium (V)	mg/L	<0.0010	B577187	<0.0010	B576553	<0.0010	0.0010	B577117
Total Zinc (Zn)	mg/L	0.013	B577187	0.28	B576553	0.12	0.0030	B577117

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CYF683			CYF683		
Sampling Date		2024/10/17			2024/10/17		
COC Number		C#738621-01-01			C#738621-01-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Elements							
Total Cadmium (Cd)	ug/L	<0.020	0.020	B572077			
Total Aluminum (Al)	mg/L	<0.0030	0.0030	B576553	<0.0030	0.0030	B576553
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B576553	<0.00060	0.00060	B576553
Total Arsenic (As)	mg/L	<0.00020	0.00020	B576553	<0.00020	0.00020	B576553
Total Barium (Ba)	mg/L	<0.010	0.010	B576558	<0.010	0.010	B576558
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B576553	<0.0010	0.0010	B576553
Total Boron (B)	mg/L	<0.020	0.020	B576558	<0.020	0.020	B576558
Total Calcium (Ca)	mg/L	<0.30	0.30	B576558	<0.30	0.30	B576558
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B576553	<0.0010	0.0010	B576553
Total Cobalt (Co)	mg/L	<0.00030	0.00030	B576553	<0.00030	0.00030	B576553
Total Copper (Cu)	mg/L	<0.0010	0.0010	B576553	<0.0010	0.0010	B576553
Total Iron (Fe)	mg/L	<0.060	0.060	B576558	<0.060	0.060	B576558
Total Lead (Pb)	mg/L	0.00033	0.00020	B576553	<0.00020	0.00020	B576553
Total Lithium (Li)	mg/L	<0.020	0.020	B576558	<0.020	0.020	B576558
Total Magnesium (Mg)	mg/L	<0.20	0.20	B576558	<0.20	0.20	B576558
Total Manganese (Mn)	mg/L	<0.0040	0.0040	B576558	<0.0040	0.0040	B576558
Total Molybdenum (Mo)	mg/L	<0.00020	0.00020	B576553	<0.00020	0.00020	B576553
Total Nickel (Ni)	mg/L	<0.00050	0.00050	B576553	<0.00050	0.00050	B576553
Total Phosphorus (P)	mg/L	<0.10	0.10	B576558	<0.10	0.10	B576558
Total Potassium (K)	mg/L	<0.30	0.30	B576558	<0.30	0.30	B576558
Total Selenium (Se)	mg/L	<0.00020	0.00020	B576553	<0.00020	0.00020	B576553
Total Silicon (Si)	mg/L	<0.50	0.50	B576558	<0.50	0.50	B576558
Total Silver (Ag)	mg/L	<0.00010	0.00010	B576553	<0.00010	0.00010	B576553
Total Sodium (Na)	mg/L	<0.50	0.50	B576558	<0.50	0.50	B576558
Total Strontium (Sr)	mg/L	<0.020	0.020	B576558	<0.020	0.020	B576558
Total Sulphur (S)	mg/L	<0.20	0.20	B576558	<0.20	0.20	B576558
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B576553	<0.00020	0.00020	B576553
Total Tin (Sn)	mg/L	<0.0010	0.0010	B576553	<0.0010	0.0010	B576553
Total Titanium (Ti)	mg/L	<0.0010	0.0010	B576553	<0.0010	0.0010	B576553
Total Uranium (U)	mg/L	<0.00010	0.00010	B576553	<0.00010	0.00010	B576553
Total Vanadium (V)	mg/L	<0.0010	0.0010	B576553	<0.0010	0.0010	B576553

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CYF683			CYF683		
Sampling Date		2024/10/17			2024/10/17		
COC Number		C#738621-01-01			C#738621-01-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**	**TRIP BLANK Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	<0.0030	0.0030	B576553	<0.0030	0.0030	B576553

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF656			CYF656			CYF657		
Sampling Date		2024/10/17 10:55			2024/10/17 10:55			2024/10/17 09:35		
COC Number		C#738621-01-01			C#738621-01-01			C#738621-01-01		
	UNITS	SC-1	RDL	QC Batch	SC-1 Lab-Dup	RDL	QC Batch	SB-1	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	37	0.50	B571900				110	0.50	B571900
Total Hardness (CaCO3)	mg/L	34.1	0.50	B572052				101	0.50	B572052
Misc. Inorganics										
pH	pH	6.24	N/A	B574813				5.92	N/A	B572797
Total Organic Carbon (C)	mg/L	14	0.50	B575099				11	0.50	B575099
Total Suspended Solids	mg/L	2.1	1.0	B573458				3.8	1.0	B573704
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	14	0.50	B573553				10	0.50	B573553
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B574812				<1.0	1.0	B572790
Alkalinity (Total as CaCO3)	mg/L	40	1.0	B574812				11	1.0	B572790
Bicarbonate (HCO3)	mg/L	49	1.0	B574812				14	1.0	B572790
Carbonate (CO3)	mg/L	<1.0	1.0	B574812				<1.0	1.0	B572790
Hydroxide (OH)	mg/L	<1.0	1.0	B574812				<1.0	1.0	B572790
Sulphate (SO4)	mg/L	7.0	1.0	B573348				100	1.0	B573720
Physical Properties										
Turbidity	NTU	2.7	0.10	B572102	3.0	0.10	B572102	23 (1)	0.20	B572102

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF657			CYF658		CYF659		
Sampling Date		2024/10/17 09:35			2024/10/17 09:30		2024/10/17 09:40		
COC Number		C#738621-01-01			C#738621-01-01		C#738621-01-01		
	UNITS	SB-1 Lab-Dup	RDL	QC Batch	SB-2	QC Batch	CB-1	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L				110	B571900	120	0.50	B571900
Total Hardness (CaCO3)	mg/L				114	B572052	119	0.50	B572052
Misc. Inorganics									
pH	pH				5.93	B572797	6.00	N/A	B574813
Total Organic Carbon (C)	mg/L				11	B575099	11	0.50	B575099
Total Suspended Solids	mg/L	4.5	1.0	B573704	4.1	B573704	4.5	1.0	B573704
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L				10	B573553	10	0.50	B573553
Anions									
Alkalinity (PP as CaCO3)	mg/L				<1.0	B572790	<1.0	1.0	B574812
Alkalinity (Total as CaCO3)	mg/L				10	B572790	10	1.0	B574812
Bicarbonate (HCO3)	mg/L				13	B572790	13	1.0	B574812
Carbonate (CO3)	mg/L				<1.0	B572790	<1.0	1.0	B574812
Hydroxide (OH)	mg/L				<1.0	B572790	<1.0	1.0	B574812
Sulphate (SO4)	mg/L				100	B573720	100	1.0	B573720
Physical Properties									
Turbidity	NTU				22 (1)	B572102	21 (1)	0.20	B572102

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF660			CYF661			CYF661		
Sampling Date		2024/10/17 09:45			2024/10/17 09:50			2024/10/17 09:50		
COC Number		C#738621-01-01			C#738621-01-01			C#738621-01-01		
	UNITS	CB-2	RDL	QC Batch	EB-1	RDL	QC Batch	EB-1 Lab-Dup	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	120	0.50	B571900	130	0.50	B571900			
Total Hardness (CaCO3)	mg/L	119	0.50	B572052	123	0.50	B572052			
Misc. Inorganics										
pH	pH	6.29	N/A	B572797	5.96	N/A	B572797			
Total Organic Carbon (C)	mg/L	10	0.50	B575294	9.7	0.50	B575294			
Total Suspended Solids	mg/L	4.7	1.0	B573704	9.3	1.0	B573704			
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B573553	10	0.50	B573553	10	0.50	B573553
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B572790	<1.0	1.0	B572790			
Alkalinity (Total as CaCO3)	mg/L	11	1.0	B572790	11	1.0	B572790			
Bicarbonate (HCO3)	mg/L	13	1.0	B572790	14	1.0	B572790			
Carbonate (CO3)	mg/L	<1.0	1.0	B572790	<1.0	1.0	B572790			
Hydroxide (OH)	mg/L	<1.0	1.0	B572790	<1.0	1.0	B572790			
Sulphate (SO4)	mg/L	100	1.0	B573720	120 (1)	2.0	B574822			
Physical Properties										
Turbidity	NTU	21 (2)	0.20	B572102	26 (2)	0.20	B572102			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Detection limits raised due to matrix interference.
(2) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C484446
Report Date: 2024/10/25

KGS Group
Client Project #: 21-1357-005

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF662			CYF663	CYF664		CYF665		
Sampling Date		2024/10/17 09:55			2024/10/17 10:25	2024/10/17 10:20		2024/10/17 10:30		
COC Number		C#738621-01-01			C#738621-01-01	C#738621-01-01		C#738621-01-01		
	UNITS	EB-2	RDL	QC Batch	NB-1	NB-2	QC Batch	CLD	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	140	0.50	B571900	130	130	B571900	130	0.50	B571900
Total Hardness (CaCO3)	mg/L	125	0.50	B572052	122	119	B572052	121	0.50	B572052
Misc. Inorganics										
pH	pH	5.94	N/A	B572797	5.90	5.99	B572797	5.95	N/A	B572797
Total Organic Carbon (C)	mg/L	9.9	0.50	B575099	10	10	B575099	10	0.50	B575099
Total Suspended Solids	mg/L	3.3	1.0	B573704	2.9	3.9	B573704	6.0	1.0	B573704
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	10	0.50	B573553	8.9	9.2	B573229	10	0.50	B573553
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B572790	<1.0	<1.0	B572790	<1.0	1.0	B572790
Alkalinity (Total as CaCO3)	mg/L	12	1.0	B572790	10	11	B572790	11	1.0	B572790
Bicarbonate (HCO3)	mg/L	15	1.0	B572790	12	13	B572790	14	1.0	B572790
Carbonate (CO3)	mg/L	<1.0	1.0	B572790	<1.0	<1.0	B572790	<1.0	1.0	B572790
Hydroxide (OH)	mg/L	<1.0	1.0	B572790	<1.0	<1.0	B572790	<1.0	1.0	B572790
Sulphate (SO4)	mg/L	130	5.0	B573348	120	120	B573720	120	1.0	B573720
Physical Properties										
Turbidity	NTU	13 (1)	0.20	B572102	18 (1)	18 (1)	B572102	21 (1)	0.20	B572102

RDL = Reportable Detection Limit
N/A = Not Applicable
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF666			CYF667	CYF668		CYF669		
Sampling Date		2024/10/17 08:55			2024/10/17 08:50	2024/10/17 09:05		2024/10/17 09:00		
COC Number		C#738621-01-01			C#738621-01-01	C#738621-01-01		C#738621-01-01		
	UNITS	CL-3 SFC	RDL	QC Batch	CL-3 BTM	CL-7 SFC	QC Batch	CL-7 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	51	0.50	B571900	51	51	B571900	51	0.50	B572081
Total Hardness (CaCO3)	mg/L	48.3	0.50	B572052	46.9	47.4	B572052	47.4	0.50	B572052
Misc. Inorganics										
pH	pH	6.22	N/A	B572797	6.23	6.22	B572797	6.19	N/A	B574813
Total Organic Carbon (C)	mg/L	10	0.50	B575294	12	11	B575099	11	0.50	B575099
Total Suspended Solids	mg/L	<0.99	0.99	B573704	<1.0	<1.0	B573704	<1.0	1.0	B573704
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	11	0.50	B573229	11	10	B573229	11	0.50	B573229
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B572790	<1.0	<1.0	B572790	<1.0	1.0	B574812
Alkalinity (Total as CaCO3)	mg/L	33	1.0	B572790	33	35	B572790	32	1.0	B574812
Bicarbonate (HCO3)	mg/L	40	1.0	B572790	41	43	B572790	39	1.0	B574812
Carbonate (CO3)	mg/L	<1.0	1.0	B572790	<1.0	<1.0	B572790	<1.0	1.0	B574812
Hydroxide (OH)	mg/L	<1.0	1.0	B572790	<1.0	<1.0	B572790	<1.0	1.0	B574812
Sulphate (SO4)	mg/L	26	1.0	B573720	26	26	B573720	26	1.0	B573720
Physical Properties										
Turbidity	NTU	3.6	0.10	B572102	3.4	3.5	B572102	3.4	0.10	B572102

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C484446
Report Date: 2024/10/25

KGS Group
Client Project #: 21-1357-005

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF669			CYF670			CYF671		
Sampling Date		2024/10/17 09:00			2024/10/17 08:45			2024/10/17 08:40		
COC Number		C#738621-01-01			C#738621-01-01			C#738621-01-01		
	UNITS	CL-7 BTM Lab-Dup	RDL	QC Batch	CL-8 SFC	RDL	QC Batch	CL-8 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				52	0.50	B572081	51	0.50	B572081
Total Hardness (CaCO3)	mg/L				50.6	0.50	B572052	47.0	0.50	B572052
Misc. Inorganics										
pH	pH				6.25	N/A	B572797	6.30	N/A	B572797
Total Organic Carbon (C)	mg/L				11	0.50	B575294	11	0.50	B575099
Total Suspended Solids	mg/L				<0.99	0.99	B573704	<1.0	1.0	B574351
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L				9.9	0.50	B573229	11	0.50	B573229
Anions										
Alkalinity (PP as CaCO3)	mg/L				<1.0	1.0	B572790	<1.0	1.0	B572790
Alkalinity (Total as CaCO3)	mg/L				34	1.0	B572790	33	1.0	B572790
Bicarbonate (HCO3)	mg/L				42	1.0	B572790	40	1.0	B572790
Carbonate (CO3)	mg/L				<1.0	1.0	B572790	<1.0	1.0	B572790
Hydroxide (OH)	mg/L				<1.0	1.0	B572790	<1.0	1.0	B572790
Sulphate (SO4)	mg/L	26	1.0	B573720	26	1.0	B573348	26	1.0	B573348
Physical Properties										
Turbidity	NTU				3.3	0.10	B572102	3.9	0.10	B572102

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF671			CYF672			CYF673		
Sampling Date		2024/10/17 08:40			2024/10/17 09:15			2024/10/17 09:10		
COC Number		C#738621-01-01			C#738621-01-01			C#738621-01-01		
	UNITS	CL-8 BTM Lab-Dup	RDL	QC Batch	CL-2 SFC	RDL	QC Batch	CL-2 BTM	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L				53	0.50	B572081	52	0.50	B572081
Total Hardness (CaCO3)	mg/L				46.5	0.50	B572052	46.9	0.50	B572052
Misc. Inorganics										
pH	pH				6.29	N/A	B572797	6.22	N/A	B572797
Total Organic Carbon (C)	mg/L	11	0.50	B575099	11	0.50	B575099	11	0.50	B575099
Total Suspended Solids	mg/L				<1.0	1.0	B574351	<0.99	0.99	B574351
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L				11	0.50	B573229	11	0.50	B573229
Anions										
Alkalinity (PP as CaCO3)	mg/L				<1.0	1.0	B572790	<1.0	1.0	B572790
Alkalinity (Total as CaCO3)	mg/L				32	1.0	B572790	32	1.0	B572790
Bicarbonate (HCO3)	mg/L				39	1.0	B572790	39	1.0	B572790
Carbonate (CO3)	mg/L				<1.0	1.0	B572790	<1.0	1.0	B572790
Hydroxide (OH)	mg/L				<1.0	1.0	B572790	<1.0	1.0	B572790
Sulphate (SO4)	mg/L				26	1.0	B573348	27	1.0	B573710
Physical Properties										
Turbidity	NTU				4.4	0.10	B572102	4.1	0.10	B572102

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF674		CYF675			CYF676		
Sampling Date		2024/10/17 08:35		2024/10/17 08:30			2024/10/17 08:25		
COC Number		C#738621-01-01		C#738621-01-01			C#738621-01-01		
	UNITS	CL-4 SFC	QC Batch	CL-4 BTM	RDL	QC Batch	CL-5 SFC	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	50	B572081	49	0.50	B572081	48	0.50	B572081
Total Hardness (CaCO3)	mg/L	45.3	B572052	44.9	0.50	B572052	43.6	0.50	B572052
Misc. Inorganics									
pH	pH	6.30	B572797	6.26	N/A	B572797	6.26	N/A	B572797
Total Organic Carbon (C)	mg/L	10	B575294	11	0.50	B575099	11	0.50	B575099
Total Suspended Solids	mg/L	<1.0	B574351	<1.0	1.0	B574351	<0.99	0.99	B574351
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	11	B573229	11	0.50	B573229	9.4	0.50	B573229
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B572790	<1.0	1.0	B572790	<1.0	1.0	B572790
Alkalinity (Total as CaCO3)	mg/L	31	B572790	35	1.0	B572790	33	1.0	B572790
Bicarbonate (HCO3)	mg/L	38	B572790	43	1.0	B572790	40	1.0	B572790
Carbonate (CO3)	mg/L	<1.0	B572790	<1.0	1.0	B572790	<1.0	1.0	B572790
Hydroxide (OH)	mg/L	<1.0	B572790	<1.0	1.0	B572790	<1.0	1.0	B572790
Sulphate (SO4)	mg/L	24	B573720	24	1.0	B573348	22	1.0	B573710
Physical Properties									
Turbidity	NTU	4.2	B572102	3.8	0.10	B572102	3.3	0.10	B572421

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF677			CYF677			CYF678		
Sampling Date		2024/10/17 08:20			2024/10/17 08:20			2024/10/17 08:10		
COC Number		C#738621-01-01			C#738621-01-01			C#738621-01-01		
	UNITS	CL-5 BTM	RDL	QC Batch	CL-5 BTM Lab-Dup	RDL	QC Batch	CL-6 SFC	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	48	0.50	B572081				43	0.50	B572081
Total Hardness (CaCO3)	mg/L	44.1	0.50	B572052				42.6	0.50	B572052
Misc. Inorganics										
pH	pH	6.28	N/A	B574813				6.30	N/A	B574813
Total Organic Carbon (C)	mg/L	10	0.50	B575294	10	0.50	B575294	11	0.50	B575099
Total Suspended Solids	mg/L	<1.0	1.0	B574351				<1.0	1.0	B574351
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	9.8	0.50	B573229	10	0.50	B573229	9.2	0.50	B573229
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B574812				<1.0	1.0	B574812
Alkalinity (Total as CaCO3)	mg/L	37	1.0	B574812				33	1.0	B574812
Bicarbonate (HCO3)	mg/L	45	1.0	B574812				40	1.0	B574812
Carbonate (CO3)	mg/L	<1.0	1.0	B574812				<1.0	1.0	B574812
Hydroxide (OH)	mg/L	<1.0	1.0	B574812				<1.0	1.0	B574812
Sulphate (SO4)	mg/L	22	1.0	B573710				17	1.0	B573710
Physical Properties										
Turbidity	NTU	3.4	0.10	B572421				2.5	0.10	B572421

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF679		CYF680			CYF680		
Sampling Date		2024/10/17 08:15		2024/10/17			2024/10/17		
COC Number		C#738621-01-01		C#738621-01-01			C#738621-01-01		
	UNITS	CL-6 BTM	QC Batch	SW-134	RDL	QC Batch	SW-134 Lab-Dup	RDL	QC Batch
Calculated Parameters									
Hardness (CaCO3)	mg/L	43	B572081	51	0.50	B572081			
Total Hardness (CaCO3)	mg/L	40.0	B572052	47.3	0.50	B572083			
Misc. Inorganics									
pH	pH	6.36	B572797	6.14	N/A	B574813	6.19	N/A	B574813
Total Organic Carbon (C)	mg/L	11	B575099	11	0.50	B575294			
Total Suspended Solids	mg/L	<1.0	B574351	<1.0	1.0	B574351			
Lab Filtered Inorganics									
Dissolved Organic Carbon (C)	mg/L	10	B573229	10	0.50	B573229			
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B572790	<1.0	1.0	B574812	<1.0	1.0	B574812
Alkalinity (Total as CaCO3)	mg/L	35	B572790	34	1.0	B574812	33	1.0	B574812
Bicarbonate (HCO3)	mg/L	42	B572790	41	1.0	B574812	40	1.0	B574812
Carbonate (CO3)	mg/L	<1.0	B572790	<1.0	1.0	B574812	<1.0	1.0	B574812
Hydroxide (OH)	mg/L	<1.0	B572790	<1.0	1.0	B574812	<1.0	1.0	B574812
Sulphate (SO4)	mg/L	17	B573710	26	1.0	B573710			
Physical Properties									
Turbidity	NTU	2.7	B572421	3.4	0.10	B572421			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF681			CYF681			CYF682		
Sampling Date		2024/10/17			2024/10/17			2024/10/17		
COC Number		C#738621-01-01			C#738621-01-01			C#738621-01-01		
	UNITS	SW-135	RDL	QC Batch	SW-135 Lab-Dup	RDL	QC Batch	SW-136	RDL	QC Batch
Calculated Parameters										
Hardness (CaCO3)	mg/L	130	0.50	B572081				130	0.50	B572081
Total Hardness (CaCO3)	mg/L	133	0.50	B572083				122	0.50	B572083
Misc. Inorganics										
pH	pH	5.95	N/A	B574813				5.88	N/A	B574813
Total Organic Carbon (C)	mg/L	10	0.50	B575294				11	0.50	B575099
Total Suspended Solids	mg/L	5.9	1.0	B574353	5.5	1.0	B574353	2.5	1.0	B574353
Lab Filtered Inorganics										
Dissolved Organic Carbon (C)	mg/L	8.5	0.50	B573229				9.0	0.50	B573229
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B574812				<1.0	1.0	B574812
Alkalinity (Total as CaCO3)	mg/L	11	1.0	B574812				10	1.0	B574812
Bicarbonate (HCO3)	mg/L	14	1.0	B574812				12	1.0	B574812
Carbonate (CO3)	mg/L	<1.0	1.0	B574812				<1.0	1.0	B574812
Hydroxide (OH)	mg/L	<1.0	1.0	B574812				<1.0	1.0	B574812
Sulphate (SO4)	mg/L	120	2.0	B573710				120	1.0	B573710
Physical Properties										
Turbidity	NTU	18 (1)	0.20	B572421				17 (1)	0.20	B572421

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CYF683			CYF683		
Sampling Date		2024/10/17			2024/10/17		
COC Number		C#738621-01-01			C#738621-01-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Hardness (CaCO3)	mg/L	<0.50	0.50	B572081			
Total Hardness (CaCO3)	mg/L	<0.50	0.50	B572083			
Misc. Inorganics							
pH	pH	4.86	N/A	B574813			
Total Organic Carbon (C)	mg/L	<0.50	0.50	B573656	<0.50	0.50	B573656
Total Suspended Solids	mg/L	<1.0	1.0	B574353			
Lab Filtered Inorganics							
Dissolved Organic Carbon (C)	mg/L	<0.50	0.50	B573229			
Anions							
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B574812			
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	B574812			
Bicarbonate (HCO3)	mg/L	<1.0	1.0	B574812			
Carbonate (CO3)	mg/L	<1.0	1.0	B574812			
Hydroxide (OH)	mg/L	<1.0	1.0	B574812			
Sulphate (SO4)	mg/L	<1.0	1.0	B573740	<1.0	1.0	B573740
Physical Properties							
Turbidity	NTU	<0.10	0.10	B572421			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	1.9°C
Package 2	0.0°C
Package 3	-0.1°C

Sample CYF656, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CYF676, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.
Sample CYF679, Elements by ICPMS-Dissolved-Lab Filtered: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B572102	Turbidity	2024/10/19			102	80 - 120	<0.10	NTU	12	20
B572421	Turbidity	2024/10/20			100	80 - 120	<0.10	NTU	9.2	20
B572594	Dissolved Aluminum (Al)	2024/10/21	106	80 - 120	95	80 - 120	<0.0030	mg/L	5.6	20
B572594	Dissolved Antimony (Sb)	2024/10/21	93	80 - 120	100	80 - 120	<0.00060	mg/L	NC	20
B572594	Dissolved Arsenic (As)	2024/10/21	90	80 - 120	101	80 - 120	<0.00020	mg/L	5.6	20
B572594	Dissolved Beryllium (Be)	2024/10/21	103	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B572594	Dissolved Chromium (Cr)	2024/10/21	97	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B572594	Dissolved Cobalt (Co)	2024/10/21	97	80 - 120	99	80 - 120	<0.00030	mg/L	NC	20
B572594	Dissolved Copper (Cu)	2024/10/21	97	80 - 120	99	80 - 120	<0.0010	mg/L	1.4	20
B572594	Dissolved Lead (Pb)	2024/10/21	95	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B572594	Dissolved Molybdenum (Mo)	2024/10/21	100	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B572594	Dissolved Nickel (Ni)	2024/10/21	96	80 - 120	99	80 - 120	<0.00050	mg/L	0.040	20
B572594	Dissolved Selenium (Se)	2024/10/21	88	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B572594	Dissolved Silver (Ag)	2024/10/21	93	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B572594	Dissolved Thallium (Tl)	2024/10/21	98	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B572594	Dissolved Tin (Sn)	2024/10/21	96	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B572594	Dissolved Titanium (Ti)	2024/10/21	97	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B572594	Dissolved Uranium (U)	2024/10/21	98	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B572594	Dissolved Vanadium (V)	2024/10/21	98	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B572594	Dissolved Zinc (Zn)	2024/10/21	84	80 - 120	97	80 - 120	<0.0030	mg/L	7.7	20
B572595	Dissolved Aluminum (Al)	2024/10/21	96	80 - 120	99	80 - 120	<0.0030	mg/L	NC	20
B572595	Dissolved Antimony (Sb)	2024/10/21	97	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20
B572595	Dissolved Arsenic (As)	2024/10/21	94	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B572595	Dissolved Beryllium (Be)	2024/10/21	104	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B572595	Dissolved Chromium (Cr)	2024/10/21	100	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B572595	Dissolved Cobalt (Co)	2024/10/21	101	80 - 120	98	80 - 120	<0.00030	mg/L	NC	20
B572595	Dissolved Copper (Cu)	2024/10/21	101	80 - 120	99	80 - 120	<0.0010	mg/L	7.5	20
B572595	Dissolved Lead (Pb)	2024/10/21	99	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B572595	Dissolved Molybdenum (Mo)	2024/10/21	103	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B572595	Dissolved Nickel (Ni)	2024/10/21	100	80 - 120	98	80 - 120	<0.00050	mg/L	1.9	20
B572595	Dissolved Selenium (Se)	2024/10/21	91	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B572595	Dissolved Silver (Ag)	2024/10/21	97	80 - 120	96	80 - 120	<0.00010	mg/L	NC	20
B572595	Dissolved Thallium (Tl)	2024/10/21	102	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B572595	Dissolved Tin (Sn)	2024/10/21	99	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B572595	Dissolved Titanium (Ti)	2024/10/21	100	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B572595	Dissolved Uranium (U)	2024/10/21	99	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B572595	Dissolved Vanadium (V)	2024/10/21	102	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B572595	Dissolved Zinc (Zn)	2024/10/21	NC	80 - 120	98	80 - 120	<0.0030	mg/L	3.2	20
B572790	Alkalinity (PP as CaCO3)	2024/10/24					<1.0	mg/L	NC	20
B572790	Alkalinity (Total as CaCO3)	2024/10/24			102	80 - 120	<1.0	mg/L	1.4	20
B572790	Bicarbonate (HCO3)	2024/10/24					<1.0	mg/L	1.4	20
B572790	Carbonate (CO3)	2024/10/24					<1.0	mg/L	NC	20
B572790	Hydroxide (OH)	2024/10/24					<1.0	mg/L	NC	20
B572797	pH	2024/10/24			100	97 - 103			0.56	N/A
B573229	Dissolved Organic Carbon (C)	2024/10/21	89	75 - 125	101	80 - 120	<0.50	mg/L	4.9	20
B573348	Sulphate (SO4)	2024/10/21	100	80 - 120	99	80 - 120	<1.0	mg/L	0.019	20
B573458	Total Suspended Solids	2024/10/22	99	80 - 120	100	80 - 120	<1.0	mg/L	13	20
B573477	Dissolved Barium (Ba)	2024/10/21	96	80 - 120	95	80 - 120	<0.010	mg/L	11	20
B573477	Dissolved Boron (B)	2024/10/21	100	80 - 120	100	80 - 120	<0.020	mg/L	NC	20
B573477	Dissolved Calcium (Ca)	2024/10/21	97	80 - 120	98	80 - 120	<0.30	mg/L	0.077	20
B573477	Dissolved Iron (Fe)	2024/10/21	104	80 - 120	104	80 - 120	<0.060	mg/L	4.1	20
B573477	Dissolved Lithium (Li)	2024/10/21	94	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B573477	Dissolved Magnesium (Mg)	2024/10/21	102	80 - 120	100	80 - 120	<0.20	mg/L	0.17	20
B573477	Dissolved Manganese (Mn)	2024/10/21	102	80 - 120	99	80 - 120	<0.0040	mg/L	0.27	20
B573477	Dissolved Phosphorus (P)	2024/10/21	104	80 - 120	102	80 - 120	<0.10	mg/L	NC	20
B573477	Dissolved Potassium (K)	2024/10/21	99	80 - 120	99	80 - 120	<0.30	mg/L	0.14	20
B573477	Dissolved Silicon (Si)	2024/10/21	97	80 - 120	97	80 - 120	<0.50	mg/L	2.0	20
B573477	Dissolved Sodium (Na)	2024/10/21	100	80 - 120	102	80 - 120	<0.50	mg/L	0.14	20
B573477	Dissolved Strontium (Sr)	2024/10/21	92	80 - 120	92	80 - 120	<0.020	mg/L	0.67	20
B573477	Dissolved Sulphur (S)	2024/10/21	98	80 - 120	100	80 - 120	<0.20	mg/L	0.13	20
B573553	Dissolved Organic Carbon (C)	2024/10/21	NC	75 - 125	106	80 - 120	<0.50	mg/L	0.17	20
B573647	Dissolved Barium (Ba)	2024/10/21	99	80 - 120	102	80 - 120	<0.010	mg/L	12	20
B573647	Dissolved Boron (B)	2024/10/21	101	80 - 120	103	80 - 120	<0.020	mg/L	NC	20
B573647	Dissolved Calcium (Ca)	2024/10/21	99	80 - 120	102	80 - 120	<0.30	mg/L	0.93	20
B573647	Dissolved Iron (Fe)	2024/10/21	105	80 - 120	108	80 - 120	<0.060	mg/L	16	20
B573647	Dissolved Lithium (Li)	2024/10/21	98	80 - 120	101	80 - 120	<0.020	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B573647	Dissolved Magnesium (Mg)	2024/10/21	99	80 - 120	104	80 - 120	<0.20	mg/L	0.54	20
B573647	Dissolved Manganese (Mn)	2024/10/21	98	80 - 120	100	80 - 120	<0.0040	mg/L	NC	20
B573647	Dissolved Phosphorus (P)	2024/10/21	104	80 - 120	105	80 - 120	<0.10	mg/L	NC	20
B573647	Dissolved Potassium (K)	2024/10/21	101	80 - 120	103	80 - 120	<0.30	mg/L	1.9	20
B573647	Dissolved Silicon (Si)	2024/10/21	95	80 - 120	99	80 - 120	<0.50	mg/L	8.6	20
B573647	Dissolved Sodium (Na)	2024/10/21	102	80 - 120	106	80 - 120	<0.50	mg/L	1.2	20
B573647	Dissolved Strontium (Sr)	2024/10/21	98	80 - 120	102	80 - 120	<0.020	mg/L	0.95	20
B573647	Dissolved Sulphur (S)	2024/10/21	99	80 - 120	97	80 - 120	<0.20	mg/L	0.28	20
B573654	Dissolved Barium (Ba)	2024/10/22	92	80 - 120	99	80 - 120	<0.010	mg/L	5.1	20
B573654	Dissolved Boron (B)	2024/10/22	96	80 - 120	99	80 - 120	<0.020	mg/L	NC	20
B573654	Dissolved Calcium (Ca)	2024/10/22	NC	80 - 120	100	80 - 120	<0.30	mg/L	7.3	20
B573654	Dissolved Iron (Fe)	2024/10/22	97	80 - 120	107	80 - 120	<0.060	mg/L	7.2	20
B573654	Dissolved Lithium (Li)	2024/10/22	99	80 - 120	98	80 - 120	<0.020	mg/L	NC	20
B573654	Dissolved Magnesium (Mg)	2024/10/22	87	80 - 120	100	80 - 120	<0.20	mg/L	5.8	20
B573654	Dissolved Manganese (Mn)	2024/10/22	NC	80 - 120	98	80 - 120	<0.0040	mg/L	2.1	20
B573654	Dissolved Phosphorus (P)	2024/10/22	97	80 - 120	103	80 - 120	<0.10	mg/L	NC	20
B573654	Dissolved Potassium (K)	2024/10/22	96	80 - 120	101	80 - 120	<0.30	mg/L	14	20
B573654	Dissolved Silicon (Si)	2024/10/22	NC	80 - 120	97	80 - 120	<0.50	mg/L	1.1	20
B573654	Dissolved Sodium (Na)	2024/10/22	90	80 - 120	103	80 - 120	<0.50	mg/L	10	20
B573654	Dissolved Strontium (Sr)	2024/10/22	79 (1)	80 - 120	99	80 - 120	<0.020	mg/L	7.4	20
B573654	Dissolved Sulphur (S)	2024/10/22	97	80 - 120	95	80 - 120	<0.20	mg/L	12	20
B573656	Total Organic Carbon (C)	2024/10/21	105	75 - 125	108	80 - 120	<0.50	mg/L	NC	20
B573704	Total Suspended Solids	2024/10/22	94	80 - 120	94	80 - 120	<1.0	mg/L	16	20
B573710	Sulphate (SO4)	2024/10/21	94	80 - 120	99	80 - 120	<1.0	mg/L	2.3	20
B573720	Sulphate (SO4)	2024/10/21	92	80 - 120	98	80 - 120	<1.0	mg/L	0.17	20
B573740	Sulphate (SO4)	2024/10/21	100	80 - 120	98	80 - 120	<1.0	mg/L	NC	20
B574351	Total Suspended Solids	2024/10/22	94	80 - 120	95	80 - 120	<0.97	mg/L	NC	20
B574353	Total Suspended Solids	2024/10/22	93	80 - 120	100	80 - 120	<1.0	mg/L	8.2	20
B574770	Dissolved Lead (Pb)	2024/10/22	96	80 - 120	94	80 - 120	<0.00020	mg/L	5.6	20
B574770	Dissolved Zinc (Zn)	2024/10/22	126 (1)	80 - 120	97	80 - 120	<0.0030	mg/L	8.2	20
B574812	Alkalinity (PP as CaCO3)	2024/10/23					<1.0	mg/L	NC	20
B574812	Alkalinity (Total as CaCO3)	2024/10/23			101	80 - 120	<1.0	mg/L	1.7	20
B574812	Bicarbonate (HCO3)	2024/10/23					<1.0	mg/L	1.7	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B574812	Carbonate (CO3)	2024/10/23					<1.0	mg/L	NC	20
B574812	Hydroxide (OH)	2024/10/23					<1.0	mg/L	NC	20
B574813	pH	2024/10/23			100	97 - 103			0.70	N/A
B574822	Sulphate (SO4)	2024/10/22	102	80 - 120	99	80 - 120	<1.0	mg/L	NC	20
B575099	Total Organic Carbon (C)	2024/10/22	NC	75 - 125	105	80 - 120	<0.50	mg/L	2.9	20
B575294	Total Organic Carbon (C)	2024/10/22	NC	75 - 125	104	80 - 120	<0.50	mg/L	3.2	20
B576553	Total Aluminum (Al)	2024/10/23	NC	80 - 120	105	80 - 120	<0.0030	mg/L	NC	20
B576553	Total Antimony (Sb)	2024/10/23	108	80 - 120	108	80 - 120	<0.00060	mg/L	NC	20
B576553	Total Arsenic (As)	2024/10/23	105	80 - 120	107	80 - 120	<0.00020	mg/L	NC	20
B576553	Total Beryllium (Be)	2024/10/23	105	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B576553	Total Chromium (Cr)	2024/10/23	104	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
B576553	Total Cobalt (Co)	2024/10/23	102	80 - 120	105	80 - 120	<0.00030	mg/L	NC	20
B576553	Total Copper (Cu)	2024/10/23	112	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20
B576553	Total Lead (Pb)	2024/10/23	100	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B576553	Total Molybdenum (Mo)	2024/10/23	99	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20
B576553	Total Nickel (Ni)	2024/10/23	100	80 - 120	105	80 - 120	<0.00050	mg/L	NC	20
B576553	Total Selenium (Se)	2024/10/23	107	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20
B576553	Total Silver (Ag)	2024/10/23	101	80 - 120	103	80 - 120	<0.00010	mg/L	NC	20
B576553	Total Thallium (Tl)	2024/10/23	106	80 - 120	109	80 - 120	<0.00020	mg/L	NC	20
B576553	Total Tin (Sn)	2024/10/23	97	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20
B576553	Total Titanium (Ti)	2024/10/23	100	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B576553	Total Uranium (U)	2024/10/23	94	80 - 120	106	80 - 120	<0.00010	mg/L	NC	20
B576553	Total Vanadium (V)	2024/10/23	104	80 - 120	105	80 - 120	<0.0010	mg/L	NC	20
B576553	Total Zinc (Zn)	2024/10/23	97	80 - 120	106	80 - 120	<0.0030	mg/L	NC	20
B576558	Total Barium (Ba)	2024/10/23	97	80 - 120	94	80 - 120	<0.010	mg/L	NC	20
B576558	Total Boron (B)	2024/10/23	97	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B576558	Total Calcium (Ca)	2024/10/23	NC	80 - 120	82	80 - 120	<0.30	mg/L	NC	20
B576558	Total Iron (Fe)	2024/10/23	103	80 - 120	91	80 - 120	<0.060	mg/L	NC	20
B576558	Total Lithium (Li)	2024/10/23	99	80 - 120	92	80 - 120	<0.020	mg/L	NC	20
B576558	Total Magnesium (Mg)	2024/10/23	NC	80 - 120	105	80 - 120	<0.20	mg/L	NC	20
B576558	Total Manganese (Mn)	2024/10/23	92	80 - 120	91	80 - 120	<0.0040	mg/L	NC	20
B576558	Total Phosphorus (P)	2024/10/23	108	80 - 120	103	80 - 120	<0.10	mg/L	NC	20
B576558	Total Potassium (K)	2024/10/23	102	80 - 120	80	80 - 120	<0.30	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B576558	Total Silicon (Si)	2024/10/23	NC	80 - 120	103	80 - 120	<0.50	mg/L	NC	20
B576558	Total Sodium (Na)	2024/10/23	107	80 - 120	82	80 - 120	<0.50	mg/L	NC	20
B576558	Total Strontium (Sr)	2024/10/23	93	80 - 120	93	80 - 120	<0.020	mg/L	NC	20
B576558	Total Sulphur (S)	2024/10/23	NC	80 - 120	100	80 - 120	<0.20	mg/L	NC	20
B577117	Total Aluminum (Al)	2024/10/24	106	80 - 120	101	80 - 120	<0.0030	mg/L		
B577117	Total Antimony (Sb)	2024/10/24	109	80 - 120	107	80 - 120	<0.00060	mg/L	NC	20
B577117	Total Arsenic (As)	2024/10/24	108	80 - 120	106	80 - 120	<0.00020	mg/L	5.5	20
B577117	Total Beryllium (Be)	2024/10/24	101	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B577117	Total Chromium (Cr)	2024/10/24	101	80 - 120	101	80 - 120	<0.0010	mg/L		
B577117	Total Cobalt (Co)	2024/10/24	102	80 - 120	101	80 - 120	<0.00030	mg/L	NC	20
B577117	Total Copper (Cu)	2024/10/24	101	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B577117	Total Lead (Pb)	2024/10/24	101	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B577117	Total Molybdenum (Mo)	2024/10/24	107	80 - 120	102	80 - 120	<0.00020	mg/L	14	20
B577117	Total Nickel (Ni)	2024/10/24	102	80 - 120	100	80 - 120	<0.00050	mg/L	3.4	20
B577117	Total Selenium (Se)	2024/10/24	106	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B577117	Total Silver (Ag)	2024/10/24	101	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B577117	Total Thallium (Tl)	2024/10/24	104	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B577117	Total Tin (Sn)	2024/10/24	104	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B577117	Total Titanium (Ti)	2024/10/24	100	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B577117	Total Uranium (U)	2024/10/24	105	80 - 120	102	80 - 120	<0.00010	mg/L	1.1	20
B577117	Total Vanadium (V)	2024/10/24	104	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B577117	Total Zinc (Zn)	2024/10/24	103	80 - 120	104	80 - 120	<0.0030	mg/L	NC	20
B577123	Total Barium (Ba)	2024/10/24	96	80 - 120	97	80 - 120	<0.010	mg/L	1.3	20
B577123	Total Boron (B)	2024/10/24	97	80 - 120	98	80 - 120	<0.020	mg/L	4.7	20
B577123	Total Calcium (Ca)	2024/10/24	NC	80 - 120	96	80 - 120	<0.30	mg/L	1.1	20
B577123	Total Iron (Fe)	2024/10/24	108	80 - 120	107	80 - 120	<0.060	mg/L	1.4	20
B577123	Total Lithium (Li)	2024/10/24	96	80 - 120	96	80 - 120	<0.020	mg/L	NC	20
B577123	Total Magnesium (Mg)	2024/10/24	94	80 - 120	95	80 - 120	<0.20	mg/L	0.78	20
B577123	Total Manganese (Mn)	2024/10/24	105	80 - 120	105	80 - 120	<0.0040	mg/L	0.86	20
B577123	Total Phosphorus (P)	2024/10/24	95	80 - 120	96	80 - 120	<0.10	mg/L	NC	20
B577123	Total Potassium (K)	2024/10/24	99	80 - 120	100	80 - 120	<0.30	mg/L	1.3	20
B577123	Total Silicon (Si)	2024/10/24	98	80 - 120	99	80 - 120	<0.50	mg/L	NC	20
B577123	Total Sodium (Na)	2024/10/24	98	80 - 120	99	80 - 120	<0.50	mg/L	1.0	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B577123	Total Strontium (Sr)	2024/10/24	94	80 - 120	95	80 - 120	<0.020	mg/L	1.5	20
B577123	Total Sulphur (S)	2024/10/24	97	80 - 120	96	80 - 120	<0.20	mg/L	2.1	20
B577187	Total Aluminum (Al)	2024/10/24	109	80 - 120	114	80 - 120	<0.0030	mg/L	0.099	20
B577187	Total Antimony (Sb)	2024/10/24	98	80 - 120	94	80 - 120	<0.00060	mg/L	NC	20
B577187	Total Arsenic (As)	2024/10/24	91	80 - 120	92	80 - 120	<0.00020	mg/L	NC	20
B577187	Total Beryllium (Be)	2024/10/24	102	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B577187	Total Chromium (Cr)	2024/10/24	97	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B577187	Total Cobalt (Co)	2024/10/24	98	80 - 120	98	80 - 120	<0.00030	mg/L	NC	20
B577187	Total Copper (Cu)	2024/10/24	97	80 - 120	96	80 - 120	<0.0010	mg/L	6.5	20
B577187	Total Lead (Pb)	2024/10/24	97	80 - 120	95	80 - 120	<0.00020	mg/L	NC	20
B577187	Total Molybdenum (Mo)	2024/10/24	102	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B577187	Total Nickel (Ni)	2024/10/24	98	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20
B577187	Total Selenium (Se)	2024/10/24	88	80 - 120	87	80 - 120	<0.00020	mg/L	NC	20
B577187	Total Silver (Ag)	2024/10/24	95	80 - 120	96	80 - 120	<0.00010	mg/L	NC	20
B577187	Total Thallium (Tl)	2024/10/24	101	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B577187	Total Tin (Sn)	2024/10/24	98	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B577187	Total Titanium (Ti)	2024/10/24	96	80 - 120	93	80 - 120	<0.0010	mg/L	9.6	20
B577187	Total Uranium (U)	2024/10/24	101	80 - 120	101	80 - 120	<0.00010	mg/L	NC	20
B577187	Total Vanadium (V)	2024/10/24	97	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B577187	Total Zinc (Zn)	2024/10/24	87	80 - 120	85	80 - 120	<0.0030	mg/L	0.093	20
B577192	Total Barium (Ba)	2024/10/24	96	80 - 120	92	80 - 120	<0.010	mg/L	NC	20
B577192	Total Boron (B)	2024/10/24	102	80 - 120	98	80 - 120	<0.020	mg/L	NC	20
B577192	Total Calcium (Ca)	2024/10/24	97	80 - 120	92	80 - 120	<0.30	mg/L	2.1	20
B577192	Total Iron (Fe)	2024/10/24	105	80 - 120	101	80 - 120	<0.060	mg/L	0.44	20
B577192	Total Lithium (Li)	2024/10/24	93	80 - 120	89	80 - 120	<0.020	mg/L	NC	20
B577192	Total Magnesium (Mg)	2024/10/24	97	80 - 120	93	80 - 120	<0.20	mg/L	1.6	20
B577192	Total Manganese (Mn)	2024/10/24	100	80 - 120	98	80 - 120	<0.0040	mg/L	1.1	20
B577192	Total Phosphorus (P)	2024/10/24	105	80 - 120	101	80 - 120	<0.10	mg/L	NC	20
B577192	Total Potassium (K)	2024/10/24	100	80 - 120	95	80 - 120	<0.30	mg/L	0.79	20
B577192	Total Silicon (Si)	2024/10/24	101	80 - 120	97	80 - 120	<0.50	mg/L	1.9	20
B577192	Total Sodium (Na)	2024/10/24	91	80 - 120	87	80 - 120	<0.50	mg/L	1.6	20
B577192	Total Strontium (Sr)	2024/10/24	95	80 - 120	91	80 - 120	<0.020	mg/L	2.7	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B577192	Total Sulphur (S)	2024/10/24	100	80 - 120	99	80 - 120	<0.20	mg/L	0.49	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

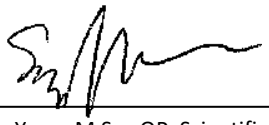
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Certified by Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

C484446
2024/10/18 11:35

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:
Company Name: #7500 KGS Group
Contact Name: Accounts Payable
Address: 865 Waverly St., 3rd Floor, Winnipeg MB R3T 5P4
Phone: (204) 896-1209 Fax:
Email: payables@kgsgroup.com

Report Information
Company Name:
Contact Name: Ed Collins
Address:
Phone: Fax:
Email: Ecollins@kgsgroup.com, rdyck@kgsgroup.com

Project Information
Quotation #: C31455
P.O. #:
Project #: 21-1357-005
Project Name:
Site #: OAM - SHERRIDON MINE SITE
Sampled By:

Laboratory Use Only
Bureau Veritas Job #:
Bottle Order #: 738621
Chain Of Custody Record: C#738621-01-01
Project Manager: Janelle Kochan

Regulatory Criteria: MWQSOG

Special Instructions: metals + nutrients preserved

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required
Please provide advance notice for rush projects
Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Alkalinity, pH	Sulphate	Carbon (DOC) - Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) - Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		SC-1	24/10/17	10:55	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze Doc + turbidity ASAP
2		SB-1		9:35	SW			X	X	X	X	X	X	X	X	X	X	4	to meet hold times
3		SB-2		9:30	SW			X	X	X	X	X	X	X	X	X	X	4	
4		CB-1		9:40	SW			X	X	X	X	X	X	X	X	X	X	4	
5		CB-2		9:45	SW			X	X	X	X	X	X	X	X	X	X	4	
6		EB-1		9:50	SW			X	X	X	X	X	X	X	X	X	X	4	
7		EB-2		9:55	SW			X	X	X	X	X	X	X	X	X	X	4	
8		NB-1		10:25	SW			X	X	X	X	X	X	X	X	X	X	4	
9		NB-2		10:20	SW			X	X	X	X	X	X	X	X	X	X	4	
10		CLD		10:30	SW			X	X	X	X	X	X	X	X	X	X	4	

MCAL-2024-10-1884

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Rachel Dyck / Rachel Dyck	24/10/18	11:30	~~BH~~ Brooklyn Hiebert	24/10/18	8:11:35	
			SE Jaskirat Begol	2024/10/18	10:15	

Lab Use Only
Time Sensitive: ☐
Temperature (°C) on Receipt: ACTR
Custody Seal Intact on Cooler? ☐ Yes ☐ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

MCAL: ACTR

Bureau Veritas Canada (2019) Inc.

C484446
2024/10/18 11:35

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			738621
Address	865 Waverly St., 3rd Floor Winnipeg MB R3T 5P4	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
Phone	(204) 896-1209 Fax:	Phone	Fax:	Project Name		C#738621-02-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Site #	OAM - SHERRIDON MINE SITE		
				Sampled By			

Regulatory Criteria: MWQSOG

Special Instructions: metals + nutrients preserved.

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT (X)
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ Time Required: _____
Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-3 SFC	24/10/17	8:55	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze DOC + turbidity
2		CL-3 BTM		8:50	SW			X	X	X	X	X	X	X	X	X	X	4	ASAP to meet hold times
3		CL-7 SFC		9:05	SW			X	X	X	X	X	X	X	X	X	X	4	
4		CL-7 BTM		9:00	SW			X	X	X	X	X	X	X	X	X	X	4	
5		CL-8 SFC		8:45	SW			X	X	X	X	X	X	X	X	X	X	4	
6		CL-8 BTM		8:40	SW			X	X	X	X	X	X	X	X	X	X	4	
7		CL-2 SFC		9:15	SW			X	X	X	X	X	X	X	X	X	X	4	
8		CL-2 BTM		9:10	SW			X	X	X	X	X	X	X	X	X	X	4	
9		CL-4 SFC		8:35	SW			X	X	X	X	X	X	X	X	X	X	4	
10		CL-4 BTM		8:30	SW			X	X	X	X	X	X	X	X	X	X	4	

RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Dyck	24/10/18	11:30	BH Brooklynn Herbert	24/10/18	1135			ACTR	Yes / No
			JB Jaskirat Bajwa	2024/10/19	10:15				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

MCAL: ACTR

White: Bureau Veritas Yellow: Client

C484446
2024/10/18 11:35

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:
Company Name: #7500 KGS Group
Contact Name: Accounts Payable
Address: 865 Waverly St., 3rd Floor, Winnipeg MB R3T 5P4
Phone: (204) 896-1209 Fax:
Email: payables@kgsgroup.com

Report Information
Company Name:
Contact Name: Ed Collins
Address:
Phone: Fax:
Email: Ecollins@kgsgroup.com, rdyck@kgsgroup.com

Project Information
Quotation #: C31455
P.O. #:
Project #: 21-1357-005
Project Name:
Site #: OAM - SHERRIDON MINE SITE
Sampled By:

Laboratory Use Only
Bureau Veritas Job #:
Bottle Order #: 738621
Chain Of Custody Record: C#738621-03-01
Project Manager: Janelle Kochan

Regulatory Criteria: MWQSOG

Special Instructions: metals + nutrients preserved.

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Turnaround Time (TAT) Required
Please provide advance notice for rush projects
Regular (Standard) TAT ☒
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.
Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y / N)	Metals Field Filtered ? (Y / N)	Alkalinity, pH	Sulphate	Carbon (DOC) -Lab Filtered	Total Suspended Solids (NFR)	Turbidity	Carbon (Total Organic)	Regulated Metals (CCME/AT1) - Total	Hardness Total (calculated as CaCO3)	Reg. Metals (CCME/AT1) – Diss. Lab Filt.	Hardness	# of Bottles	Comments
1		CL-5 SFC	24/10/17	8:25	SW	N	N	X	X	X	X	X	X	X	X	X	X	4	Analyze DOC and turbidity
2		CL-5 BTM		8:20	SW			X	X	X	X	X	X	X	X	X	X	4	ASAP to meet hold times
3		CL-6 SFC		8:10	SW			X	X	X	X	X	X	X	X	X	X	4	
4		CL-6 BTM		8:15	SW			X	X	X	X	X	X	X	X	X	X	4	
5		SW-134		AM	SW			X	X	X	X	X	X	X	X	X	X	4	
6		SW-135		AM	SW			X	X	X	X	X	X	X	X	X	X	4	
7		SW-136		AM	SW			X	X	X	X	X	X	X	X	X	X	4	
8		TRIP BLANK		—	—	—	—	X	X	X	X	X	X	X	X	X	X	4	
9																			
10																			

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Dyck	24/10/18	11:30	BA Brooklyn Hiebert	24/10/18	1135		☐	ACTR	☐ Yes ☐ No
			JS Jaskirat Bedi	2024/10/19	10:15				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

MCAL = ACTR

White: Bureau Veritas Yellow: Client

APPENDIX C.2

Laboratory Certificates of Analysis – Toxicity

RESULTS OF RAINBOW TROUT LC50 MULTI-CONCENTRATION

Client : 7500 KGS Group Job Number: C438625

Client Project Name & Number: SHERRIDON MINE SITE 21-1357-005

Test Result:

96 hrs LC50 % vol/vol (95% CL): >100% (N/A) Statistical Method: Visual

Sample Name : CLD Sample Matrix : Water

Description: Yellow, clear, with debris Sample Number: COI456-01

Sample Collected: May 28, 2024 10:20 AM Sampling Method : N/A Site Collection: N/A

Sample Collected By: AC Volume Received: 40 L Avg Temp Arrival: 6 °C Storage: 2-6°C

Sample Received: May 29, 2024 11:45 AM pH: 5.0 Dissolved Oxygen: 10.7 mg/L

Analysis Start : May 31, 2024 08:55 AM Temperature : 15 °C Sample Conductance: 523 µS/cm

Concentration	Temperature (°C)	pH (pH)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)
% vol/vol	Start	Start	Start	Start	24 hrs	24 hrs	24 hrs	24 hrs	48 hrs	48 hrs	48 hrs	48 hrs
0	14	7.9	385	9.4	0	0	0	0	0	0	0	0
6.25	14	7.6	400	9.6	0	0	0	0	0	0	0	0
12.5	14	7.4	407	9.3	0	0	0	0	0	0	0	0
25	15	7.4	423	9.4	0	0	0	0	0	0	0	0
50	15	7.4	453	9.5	0	0	0	0	0	0	0	0
100	15	5.2	526	9.4	0	0	0	0	0	0	0	0

Concentration	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Temperature (°C)	pH (pH)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)
% vol/vol	72 hrs	72 hrs	72 hrs	72 hrs	96 hrs	96 hr	96 hrs	96 hrs	96 hrs	96 hrs	96 hrs	96 hrs
0	0	0	0	0	14	8.0	390	9.0	0	0	0	0
6.25	0	0	0	0	14	7.9	399	9.0	0	0	0	0
12.5	0	0	0	0	14	7.7	406	8.5	0	0	0	0
25	0	0	0	0	14	7.9	422	9.1	0	0	0	0
50	0	0	0	0	14	7.7	454	9.1	0	0	0	0
100	0	0	0	0	14	5.3	527	9.3	2	20.0	AA(8)	80.0

Atypical Behaviour Notes : AA=Lethargic

Comments : None

Culture/Control/Dilution Water City of Edmonton dechlorinated tap water

Hardness: 160 mg/L $CaCO_3$ Other parameters available on request.

Test Conditions Test concentration : 0,6.25,12.5,25,50,100 (% vol/vol)

Organisms per Vessel :	10	Test Temperature :	15 ± 1 °C	Solution Depth :	>15 cm
Total # of Organisms Used :	60	Pre-aeration Time :	120 min.	Rate of Aeration	6.5±1 mL/ (min*L)
Test Volume :	20 L	Vessel Volume :	38L	Test pH Adjusted:	No
Loading Density :	0.2 g/L	Photoperiod :	16:8 (light: dark)		

Test Organism : Rainbow Trout *(Oncorhynchus mykiss)* Source : LSL Trout Hatchery

Culture Temperature :	15 ± 2 °C	Weight (Mean) +- SD :	0.5 ± 0.1 g	Length (Mean) +- SD :	3.69 ± 0.17 cm
Culture Water Renewal :	≥ 1.0 L/min/kg fish	Weight (Range) :	0.3 – 0.6 g	Length (Range) :	3.40 – 4.00 cm
Culture Photoperiod :	16:8 (light: dark)			% Mortality within 7 days :	0%
Feeding rate and frequency :	daily: 1-5% biomass of trout.			Acclimation Time:	>14 days

RESULTS OF RAINBOW TROUT LC50 MULTI-CONCENTRATION

Client : 7500 KGS Group | Job Number: C438625

Client Project Name & Number: SHERRIDON MINE SITE 21-1357-005 | Sample Number: COI456-01

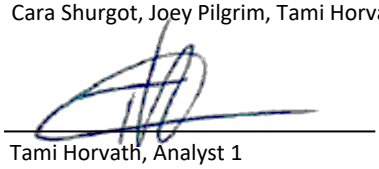
Reference chemical:	Phenol	Test Date:	May 19, 2024
Test Endpoint 96 hrs LC50 (95% confidence interval) :	10.6 (10.1, 11.2)mg/L	Statistical Method :	Untrimmed Spearman-Kärber
Historical Mean LC50 (warning limits) :	8.02 (4.82, 13.3) mg/L	Concentration :	0,7.59,9.15,11,13.3,16 mg/L

Test Method EPS 1/RM/13

Method Deviations : None

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Cara Shurgot, Joey Pilgrim, Tami Horvath



Verified By : Tami Horvath, Analyst 1 Date: Jun 07, 2024 10:57 AM

Your Project #: 21-1357-005
Your C.O.C. #: 721077-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/07/24
Report #: R3531379
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C452501
Received: 2024/07/11, 12:30

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Rainbow Trout Single Concentration-100% (1)	1	N/A	2024/07/13	EENVSOP-00160	EPS 1 RM13 2nd ed m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Edmonton Environmental, 4326 76 Avenue NW , Edmonton, AB, T6B 2H8

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Your C.O.C. #: 721077-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/07/24
Report #: R3531379
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C452501
Received: 2024/07/11, 12:30

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Job #: C452501
Report Date: 2024/07/24

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AA

RESULTS OF CHEMICAL ANALYSES OF WATER

Bureau Veritas ID		CRC943	
Sampling Date		2024/07/10 10:05	
COC Number		721077-01-01	
	UNITS	**CLD**	**QC Batch**
Rainbow Trout			
Mortality	%	ATTACHED	B437665

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.0°C

Results relate only to the items tested.

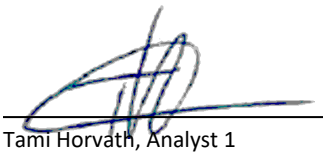
Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C452501
Report Date: 2024/07/24

KGS Group
Client Project #: 21-1357-005
Sampler Initials: AA

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Tami Horvath, Analyst 1

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins	P.O. #			721077
Address	865 Waverly St., 3rd Floor Winnipeg MB R3T 5P4	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
Phone	(204) 896-1209 Fax:	Phone	Fax:	Project Name		C#721077-01-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com	Site #			
				Sampled By	AL/AW		

Regulatory Criteria: MWQSOG

Special Instructions:

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Analysis Requested

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT X
(will be applied if Rush TAT is not specified)
Standard TAT = 5-7 Working days for most tests.
Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)
Date Required: Time Required:
Rush Confirmation Number
(call lab for #)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Rainbow Trout LC50 Multi-Concentration	# of Bottles	Comments
1		CLD	24/07/10	1005	SW	N	N	X	2	
2										
3										
4										
5										
6										
7										
8										
9										
10										

med2-2024-07-382

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Monica Ainslough Lorna	24/07/11	12:15	BA Brooklyn Herbert	24/07/11	1250	
			BRENTON MAH	2024/07/12	09:59	

Lab Use Only

Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
1.	8.1/8.9/8.8	Yes / No
2.	9.3/5.8/6.6	

MED2: Temp: 6,6,6
seal: yes intact: yes
ice: yes

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

Client : 7500 KGS Group Job Number: C452501

Client Project Name & Number: 21-1357-005

Test Result:

96 hrs Mortality % 0 Statistical Method: Visual

Sample Name : CLD Sample Matrix : Water

Description: Yellow, clear Sample Number: CRC943-01

Sample Collected: Jul 10, 2024 10:05 AM Sampling Method : N/A Site Collection: N/A

Sample Collected By: AA Volume Received: 20 L Avg Temp Arrival: 6 °C Storage: 2-6°C

Sample Received: Jul 11, 2024 12:30 PM pH: 7.0 Dissolved Oxygen: 9.4 mg/L

Analysis Start : Jul 13, 2024 07:20 AM Temperature : 14 °C Sample Conductance: 156 µS/cm

Concentration	Temperature (°C)	pH (pH)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)
% vol/vol	Start	Start	Start	Start	24 hrs	24 hrs	24 hrs	24 hrs	48 hrs	48 hrs	48 hrs	48 hrs
0	14	8.3	386	9.7	0	0	0	0	0	0	0	0
100	14	7.4	155	9.6	0	0	0	0	0	0	0	0

Concentration	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Temperature (°C)	pH (pH)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)
% vol/vol	72 hrs	72 hrs	72 hrs	72 hrs	96 hrs	96 hr	96 hrs	96 hrs	96 hrs	96 hrs	96 hrs	96 hrs
0	0	0	0	0	14	8.5	389	9.6	0	0	0	0
100	0	0	0	0	14	7.7	160	9.6	0	0	0	0

Comments : None

Culture/Control/Dilution Water City of Edmonton dechlorinated tap water

Hardness: 160 mg/L $CaCO_3$ Other parameters available on request.

Test Conditions Test concentration : 0,100 (% vol/vol)

Organisms per Vessel :	10	Test Temperature :	15 ± 1 °C	Solution Depth :	>15 cm
Total # of Organisms Used :	20	Pre-aeration Time :	30 min.	Rate of Aeration	6.5±1 mL/ (min*L)
Test Volume :	20 L	Vessel Volume :	38L	Test pH Adjusted:	No
Loading Density :	0.1 g/L	Photoperiod :	16:8 (light: dark)		

Test Organism : Rainbow Trout *(Oncorhynchus mykiss)* Source : LSL Trout Hatchery

Culture Temperature :	15 ± 2 °C	Weight (Mean) +- SD :	0.3 ± 0.1 g	Length (Mean) +- SD :	3.24 ± 0.18 cm
Culture Water Renewal :	≥ 1.0 L/min/kg fish	Weight (Range) :	0.2 – 0.5 g	Length (Range) :	3.00 – 3.50 cm
Culture Photoperiod :	16:8 (light: dark)			% Mortality within 7 days :	0.1%
Feeding rate and frequency :	daily: 1-5% biomass of trout.			Acclimation Time:	>14 days

Reference chemical: Phenol Test Date: Jul 19, 2024

Test Endpoint 96 hrs LC50 (95% confidence interval) : 9.36 (8.48, 10.2)mg/L Statistical Method : Probit

Historical Mean LC50 (warning limits) : 7.73 (4.37, 13.7) mg/L Concentration : 0,7.59,9.15,11,13.3,16 mg/L

Test Method EPS 1/RM/13

Method Deviations : None

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

RESULTS OF RAINBOW TROUT SINGLE CONCENTRATION-100%

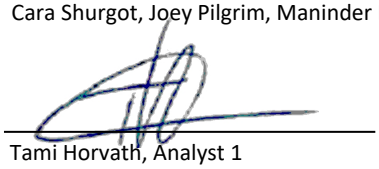
Client : 7500 KGS Group

Job Number: C452501

Client Project Name & Number: 21-1357-005

Sample Number: CRC943-01

Analyst : Cara Shurgot, Joey Pilgrim, Maninder Brar, Tami Horvath



Verified By : Tami Horvath, Analyst 1

Date: Jul 24, 2024 10:33 AM

Your Project #: 21-1357-005
Site#: OAM SHERRIDON MINE SITE
Your C.O.C. #: 721078-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/09/18
Report #: R3557851
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C469699
Received: 2024/09/05, 11:30

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Rainbow Trout LC50 Multi-Concentration (1)	1	N/A	2024/09/07	EENVSOP-00160	EPS 1 RM13 2nd ed m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Edmonton Environmental, 4326 76 Avenue NW , Edmonton, AB, T6B 2H8

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Site#: OAM SHERRIDON MINE SITE
Your C.O.C. #: 721078-01-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/09/18
Report #: R3557851
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C469699
Received: 2024/09/05, 11:30

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173

==========

This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

TOXICOLOGY (WATER)

Bureau Veritas ID		CUU860	
Sampling Date		2024/09/04 11:55	
COC Number		721078-01-01	
	UNITS	CAMP LAKE DISCHARGE	QC Batch
Rainbow Trout			
LC50	% vol/vol	ATTACHED	B506965

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.0°C
Package 2	6.0°C

Results relate only to the items tested.

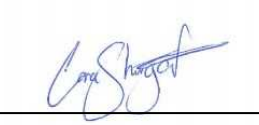
Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C469699
Report Date: 2024/09/18

KGS Group
Client Project #: 21-1357-005
Sampler Initials: BRP

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



Cara Shurgot, Analyst 2

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

C469699
2024/09/06 09:25

Bureau Veritas
D-675 Berry Street, Winnipeg, Manitoba Canada R3H 1A7 Tel:(204) 772-7276 Toll-free:800-563-6266 Fax:(204) 772-2386 www.bvna.com

Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#7500 KGS Group	Company Name		Quotation #	C31455	Bureau Veritas Job #	Bottle Order #:
Contact Name	Accounts Payable	Contact Name	Ed Collins, Rachel Dyck	P.O. #			721078
Address	865 Waverly St., 3rd Floor Winnipeg MB R3T 5P4	Address		Project #	21-1357-005	Chain Of Custody Record	Project Manager
Phone	(204) 896-1209 Fax:	Phone	Fax:	Project Name		C#721078-01-01	Janelle Kochan
Email	payables@kgsgroup.com	Email	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Site #	OAM Sherridon Mine Site		
				Sampled By	BRP/JWR		

Regulatory Criteria: MW QSOG

Special Instructions:

Note: For regulated drinking water samples - please use the Drinking Water Chain of Custody Form

Samples must be kept cool (< 10°C) from time of sampling until delivery to Bureau Veritas

Analysis Requested

Turnaround Time (TAT) Required

Please provide advance notice for rush projects

Regular (Standard) TAT (X)

(will be applied if Rush TAT is not specified)

Standard TAT = 5-7 Working days for most tests.

Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)

Date Required: _____ Time Required: _____

Rush Confirmation Number _____ *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Regulated Drinking Water ? (Y/N)	Metals Field Filtered ? (Y/N)	Rainbow Trout LC50 Multi-Concentration	# of Bottles	Comments
1		CAMP LAKE DISCHARGE	24/09/04	11:55	SW	N	N	X	2	
2										
3										
4										
5										
6										
7										
8										
9										
10										

(2)

MED2-2024-09-149

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Bailey Patch BP	24/09/05	11:30	~~BH~~ Brooklyn Hiebert BH DE TT LW	24/09/05 2024/09/06	1130 09:25		☐	1.)0.9/0.7/0.6 2.)0.8/1.3/0.7 6.6.6 7 5 6	☐ Yes ☐ No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Bureau Veritas Yellow: Client

ice & seal: yes both.

Bureau Veritas Canada (2019) Inc.

RESULTS OF RAINBOW TROUT LC50 MULTI-CONCENTRATION

Client : 7500 KGS Group Job Number: C469699

Client Project Name & Number: 21-1357-005

Test Result:

96 hrs LC50 % vol/vol (95% CL): >100% (N/A) Statistical Method: Visual

Sample Name : CAMP LAKE DISCHARGE Sample Matrix : Water

Description: Orange, clear Sample Number: CUU860-01

Sample Collected: Sep 04, 2024 11:55 AM Sampling Method : N/A Site Collection: N/A

Sample Collected By: BRP Volume Received: 40 L Avg Temp Arrival: 6 °C Storage: 2-6°C

Sample Received: Sep 05, 2024 11:30 AM pH: 7.1 Dissolved Oxygen: 10.0 mg/L

Analysis Start : Sep 07, 2024 09:20 AM Temperature : 15 °C Sample Conductance: 237 µS/cm

Concentration	Temperature (°C)	pH (pH)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)
% vol/vol	Start	Start	Start	Start	24 hrs	24 hrs	24 hrs	24 hrs	48 hrs	48 hrs	48 hrs	48 hrs
0	14	8.4	366	9.5	0	0	0	0	0	0	0	0
6.25	14	8.5	353	9.4	0	0	0	0	0	0	0	0
12.5	14	8.4	348	9.6	0	0	0	0	0	0	0	0
25	14	8.3	332	9.6	0	0	0	0	0	0	0	0
50	15	8.2	300	9.5	0	0	0	0	0	0	0	0
100	15	7.8	231	9.4	0	0	0	0	0	0	0	0

Concentration	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)	Temperature (°C)	pH (pH)	Conductivity (uS/cm)	Dissolved Oxygen (mg/L)	Mortality (#)	Mortality (%)	Atypical Behaviour (#)	Atypical Behaviour (%)
% vol/vol	72 hrs	72 hrs	72 hrs	72 hrs	96 hrs	96 hr	96 hrs	96 hrs	96 hrs	96 hrs	96 hrs	96 hrs
0	0	0	0	0	14	8.1	368	9.0	0	0	0	0
6.25	0	0	0	0	14	8.2	359	9.2	0	0	0	0
12.5	0	0	0	0	14	8.1	352	9.2	0	0	0	0
25	0	0	0	0	14	8.1	336	9.1	0	0	0	0
50	0	0	0	0	14	8.0	304	9.1	0	0	0	0
100	0	0	0	0	14	7.5	233	9.2	0	0	0	0

Comments : None

Culture/Control/Dilution Water City of Edmonton dechlorinated tap water

Hardness: 180 mg/L $CaCO_3$ Other parameters available on request.

Test Conditions Test concentration : 0,6.25,12.5,25,50,100 (% vol/vol)

Organisms per Vessel :	10	Test Temperature :	15 ± 1 °C	Solution Depth :	>15 cm
Total # of Organisms Used :	60	Pre-aeration Time :	120 min.	Rate of Aeration	6.5±1 mL/ (min*L)
Test Volume :	20 L	Vessel Volume :	38L	Test pH Adjusted:	No
Loading Density :	0.3 g/L	Photoperiod :	16:8 (light: dark)		

Test Organism : Rainbow Trout *(Oncorhynchus mykiss)* Source : LSL Trout Hatchery

Culture Temperature :	15 ± 2 °C	Weight (Mean) +- SD :	0.6 ± 0.2 g	Length (Mean) +- SD :	3.96 ± 0.51 cm
Culture Water Renewal :	≥ 1.0 L/min/kg fish	Weight (Range) :	0.3 – 1.0 g	Length (Range) :	3.40 – 4.80 cm
Culture Photoperiod :	16:8 (light: dark)			% Mortality within 7 days :	0%
Feeding rate and frequency :	daily: 1-5% biomass of trout.			Acclimation Time:	>14 days

Reference chemical: Phenol Test Date: Aug 27, 2024

Test Endpoint 96 hrs LC50 (95% confidence interval) : <7.59 (<7.59, 8.19)mg/L Statistical Method : Probit

Historical Mean LC50 (warning limits) : 8.05 (4.86, 13.3) mg/L Concentration : 0,7.59,9.15,11,13.3,16 mg/L

RESULTS OF RAINBOW TROUT LC50 MULTI-CONCENTRATION

Client : 7500 KGS Group | Job Number: C469699

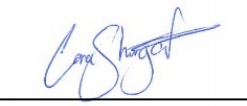
Client Project Name & Number: 21-1357-005 | Sample Number: CUU860-01

Test Method EPS 1/RM/13

Method Deviations : None

Note: The results contained in this report refer only to the testing of the sample submitted. Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation, including the toxicity parameters reported herein. The conductivity, dissolved oxygen and pH data contained within the toxicity report are provided for information purposes and are not individually accredited parameters. This report may not be reproduced, except in its entirety, without the written approval of the laboratory.

Analyst : Cara Shurgot, Kyle Monaghan, Maninder Brar, Svetlana Sofrenovic



Verified By : Cara Shurgot, Analyst 2 Date: Sep 18, 2024 11:32 AM

APPENDIX D

Laboratory Certificates of Analysis – Groundwater

Your Project #: 21-1357-005
Your C.O.C. #: C#721082-01-01, C#721082-02-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/06/20
Report #: R3516803
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C443849
Received: 2024/06/13, 11:20

Sample Matrix: Water
Samples Received: 15

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	1	N/A	2024/06/18	AB SOP-00005	SM 24 2320 B m
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	14	N/A	2024/06/19	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	15	N/A	2024/06/16		Auto Calc
Cadmium - low level CCME (Total) (1)	12	N/A	2024/06/18		Auto Calc
Cadmium - low level CCME (Total) (1)	3	N/A	2024/06/19		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	15	N/A	2024/06/14	AB SOP-00020	SM24-4500-Cl/SO4-E m
Conductivity @25C (1)	15	N/A	2024/06/19	AB SOP-00005	SM 24 2510 B m
Hardness (1)	15	N/A	2024/06/17		Auto Calc
Mercury (Dissolved) by CV (1, 2)	2	2024/06/18	2024/06/18	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV (1, 2)	13	2024/06/19	2024/06/19	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV (1)	1	2024/06/18	2024/06/18	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV (1)	1	2024/06/18	2024/06/19	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV (1)	13	2024/06/19	2024/06/19	AB SOP-00084	BCMOE BCLM Oct2013 m
Elements by ICP - Dissolved (1, 2)	15	N/A	2024/06/16	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	9	2024/06/17	2024/06/17	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	2	2024/06/17	2024/06/18	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	3	2024/06/18	2024/06/18	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	1	2024/06/20	2024/06/20	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS - Dissolved (1, 2)	15	N/A	2024/06/15	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	2	2024/06/17	2024/06/17	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	9	2024/06/17	2024/06/18	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	3	2024/06/18	2024/06/18	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	1	2024/06/20	2024/06/20	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Ion Balance (1)	15	N/A	2024/06/19		Auto Calc
Sum of cations, anions (1)	15	N/A	2024/06/17		Auto Calc

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Your C.O.C. #: C#721082-01-01, C#721082-02-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/06/20
Report #: R3516803
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C443849
Received: 2024/06/13, 11:20

Sample Matrix: Water
Samples Received: 15

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Nitrate and Nitrite (1)	15	N/A	2024/06/15		Auto Calc
NO2 (N); NO2 (N) + NO3 (N) in Water (1)	14	N/A	2024/06/14	AB SOP-00091	SM 24 4500 NO3m
NO2 (N); NO2 (N) + NO3 (N) in Water (1)	1	N/A	2024/06/15	AB SOP-00091	SM 24 4500 NO3m
Nitrate (as N) (1)	15	2024/06/14	2024/06/15		Auto Calc
pH @25°C (1, 3)	1	N/A	2024/06/18	AB SOP-00005	SM 24 4500-H+B m
pH @25°C (1, 3)	14	N/A	2024/06/19	AB SOP-00005	SM 24 4500-H+B m
Total Dissolved Solids (Calculated) (1)	15	N/A	2024/06/19		Auto Calc

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.

Your Project #: 21-1357-005
Your C.O.C. #: C#721082-01-01, C#721082-02-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/06/20
Report #: R3516803
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C443849
Received: 2024/06/13, 11:20

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173
==========
This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH929			CPH931		
Sampling Date		2024/06/12 08:15			2024/06/12 08:45		
COC Number		C#721082-01-01			C#721082-01-01		
	UNITS	MW-01-BR	RDL	QC Batch	MW-02-BR	RDL	QC Batch
Calculated Parameters							
Anion Sum	meq/L	28	N/A	B402654	6.8	N/A	B402654
Cation Sum	meq/L	27	N/A	B402654	6.4	N/A	B402654
Hardness (CaCO3)	mg/L	1200	0.50	B402632	110	0.50	B402632
Ion Balance (% Difference)	%	2.5	N/A	B402646	2.8	N/A	B402646
Nitrate (N)	mg/L	0.043	0.010	B402405	0.011	0.010	B402405
Nitrate (NO3)	mg/L	0.19	0.044	B402400	0.049	0.044	B402661
Nitrite (NO2)	mg/L	0.046	0.033	B402400	<0.033	0.033	B402661
Calculated Total Dissolved Solids	mg/L	1700	25	B402677	380	10	B402677
Elements							
Dissolved Cadmium (Cd)	ug/L	0.024	0.020	B402598	<0.020	0.020	B402598
Misc. Inorganics							
Conductivity	uS/cm	2100	2.0	B406891	460	2.0	B406891
pH	pH	8.05	N/A	B406889	7.34	N/A	B406889
Anions							
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B406885	<1.0	1.0	B406885
Alkalinity (Total as CaCO3)	mg/L	350	1.0	B406885	190	1.0	B406885
Bicarbonate (HCO3)	mg/L	430	1.0	B406885	230	1.0	B406885
Carbonate (CO3)	mg/L	<1.0	1.0	B406885	<1.0	1.0	B406885
Hydroxide (OH)	mg/L	<1.0	1.0	B406885	<1.0	1.0	B406885
Chloride (Cl)	mg/L	52	1.0	B403101	25	1.0	B403103
Sulphate (SO4)	mg/L	950	25	B408829	110	1.0	B403103
Nutrients							
Nitrite (N)	mg/L	0.014	0.010	B403093	<0.010	0.010	B403095
Nitrate plus Nitrite (N)	mg/L	0.057	0.010	B403093	0.011	0.010	B403095
Elements							
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	B403755	0.0055	0.0030	B403755
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B403755	<0.00060	0.00060	B403755
Dissolved Arsenic (As)	mg/L	0.0013	0.00020	B403755	0.00063	0.00020	B403755
Dissolved Barium (Ba)	mg/L	0.045	0.010	B403868	0.028	0.010	B403868
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Boron (B)	mg/L	0.18	0.020	B403868	0.49	0.020	B403868

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH929			CPH931		
Sampling Date		2024/06/12 08:15			2024/06/12 08:45		
COC Number		C#721082-01-01			C#721082-01-01		
	UNITS	MW-01-BR	RDL	QC Batch	MW-02-BR	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	260	0.30	B403868	23	0.30	B403868
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Cobalt (Co)	mg/L	0.0049	0.00030	B403755	0.0034	0.00030	B403755
Dissolved Copper (Cu)	mg/L	0.0012	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Iron (Fe)	mg/L	0.77	0.060	B403868	0.14	0.060	B403868
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B403755	0.00022	0.00020	B403755
Dissolved Lithium (Li)	mg/L	0.040	0.020	B403868	0.067	0.020	B403868
Dissolved Magnesium (Mg)	mg/L	140	0.20	B403868	12	0.20	B403868
Dissolved Manganese (Mn)	mg/L	1.0	0.0040	B403868	0.049	0.0040	B403868
Dissolved Molybdenum (Mo)	mg/L	0.0029	0.00020	B403755	0.00095	0.00020	B403755
Dissolved Nickel (Ni)	mg/L	0.0029	0.00050	B403755	<0.00050	0.00050	B403755
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B403868	<0.10	0.10	B403868
Dissolved Potassium (K)	mg/L	19	0.30	B403868	5.7	0.30	B403868
Dissolved Selenium (Se)	mg/L	0.0012	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Silicon (Si)	mg/L	6.2	0.50	B403868	5.8	0.50	B403868
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B403755	<0.00010	0.00010	B403755
Dissolved Sodium (Na)	mg/L	41	0.50	B403868	93	0.50	B403868
Dissolved Strontium (Sr)	mg/L	1.7	0.020	B403868	0.30	0.020	B403868
Dissolved Sulphur (S)	mg/L	280	0.20	B403868	30	0.20	B403868
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Uranium (U)	mg/L	0.072	0.00010	B403755	0.0045	0.00010	B403755
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Zinc (Zn)	mg/L	0.0048	0.0030	B403755	<0.0030	0.0030	B403755
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH932			CPH932		
Sampling Date		2024/06/12 09:50			2024/06/12 09:50		
COC Number		C#721082-01-01			C#721082-01-01		
	UNITS	MW-03-OB	RDL	QC Batch	MW-03-OB Lab-Dup	RDL	QC Batch
Calculated Parameters							
Anion Sum	meq/L	11	N/A	B402654			
Cation Sum	meq/L	9.6	N/A	B402654			
Hardness (CaCO3)	mg/L	430	0.50	B402632			
Ion Balance (% Difference)	%	5.9	N/A	B402646			
Nitrate (N)	mg/L	<0.050	0.050	B402666			
Nitrate (NO3)	mg/L	<0.22	0.22	B402661			
Nitrite (NO2)	mg/L	<0.033	0.033	B402661			
Calculated Total Dissolved Solids	mg/L	620	10	B402677			
Elements							
Dissolved Cadmium (Cd)	ug/L	<0.020	0.020	B402598			
Misc. Inorganics							
Conductivity	uS/cm	860	2.0	B406891			
pH	pH	7.16	N/A	B406889			
Anions							
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B406885			
Alkalinity (Total as CaCO3)	mg/L	210	1.0	B406885			
Bicarbonate (HCO3)	mg/L	260	1.0	B406885			
Carbonate (CO3)	mg/L	<1.0	1.0	B406885			
Hydroxide (OH)	mg/L	<1.0	1.0	B406885			
Chloride (Cl)	mg/L	1.4	1.0	B403101			
Sulphate (SO4)	mg/L	310	5.0	B403101			
Nutrients							
Nitrite (N)	mg/L	<0.010	0.010	B403095	<0.010	0.010	B403095
Nitrate plus Nitrite (N)	mg/L	<0.050 (1)	0.050	B403095	<0.050	0.050	B403095
Elements							
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	B403755			
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B403755			
Dissolved Arsenic (As)	mg/L	0.0018	0.00020	B403755			
Dissolved Barium (Ba)	mg/L	0.086	0.010	B403868			
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B403755			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Detection limits raised due to matrix interference.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH932			CPH932		
Sampling Date		2024/06/12 09:50			2024/06/12 09:50		
COC Number		C#721082-01-01			C#721082-01-01		
	UNITS	MW-03-OB	RDL	QC Batch	MW-03-OB Lab-Dup	RDL	QC Batch
Dissolved Boron (B)	mg/L	0.064	0.020	B403868			
Dissolved Calcium (Ca)	mg/L	130	0.30	B403868			
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B403755			
Dissolved Cobalt (Co)	mg/L	0.00058	0.00030	B403755			
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	B403755			
Dissolved Iron (Fe)	mg/L	3.1	0.060	B403868			
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B403755			
Dissolved Lithium (Li)	mg/L	0.040	0.020	B403868			
Dissolved Magnesium (Mg)	mg/L	24	0.20	B403868			
Dissolved Manganese (Mn)	mg/L	0.95	0.0040	B403868			
Dissolved Molybdenum (Mo)	mg/L	0.00059	0.00020	B403755			
Dissolved Nickel (Ni)	mg/L	0.00090	0.00050	B403755			
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B403868			
Dissolved Potassium (K)	mg/L	7.6	0.30	B403868			
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B403755			
Dissolved Silicon (Si)	mg/L	8.4	0.50	B403868			
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B403755			
Dissolved Sodium (Na)	mg/L	15	0.50	B403868			
Dissolved Strontium (Sr)	mg/L	0.38	0.020	B403868			
Dissolved Sulphur (S)	mg/L	82	0.20	B403868			
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B403755			
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B403755			
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B403755			
Dissolved Uranium (U)	mg/L	0.0012	0.00010	B403755			
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B403755			
Dissolved Zinc (Zn)	mg/L	0.33	0.0030	B403755			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH933		CPH934			CPH936		
Sampling Date		2024/06/12 08:30		2024/06/12 08:35			2024/06/12 08:00		
COC Number		C#721082-01-01		C#721082-01-01			C#721082-01-01		
	UNITS	MW-04-OB	QC Batch	MW-04-BR	RDL	QC Batch	MW-05-BR	RDL	QC Batch
Calculated Parameters									
Anion Sum	meq/L	13	B402654	11	N/A	B402654	2.5	N/A	B402654
Cation Sum	meq/L	13	B402654	10	N/A	B402654	2.3	N/A	B402654
Hardness (CaCO3)	mg/L	570	B402632	210	0.50	B402632	100	0.50	B402632
Ion Balance (% Difference)	%	1.4	B402646	6.0	N/A	B402646	4.7	N/A	B402646
Nitrate (N)	mg/L	0.025	B402666	0.025	0.010	B402666	<0.010	0.010	B402666
Nitrate (NO3)	mg/L	0.11	B402661	0.11	0.044	B402661	<0.044	0.044	B402661
Nitrite (NO2)	mg/L	<0.033	B402661	<0.033	0.033	B402661	<0.033	0.033	B402661
Calculated Total Dissolved Solids	mg/L	720	B402677	670	10	B402677	140	10	B402677
Elements									
Dissolved Cadmium (Cd)	ug/L	<0.020	B402598	<0.020	0.020	B402598	0.069	0.020	B402598
Misc. Inorganics									
Conductivity	uS/cm	1100	B406891	1000	2.0	B406891	230	2.0	B406891
pH	pH	7.91	B406889	7.66	N/A	B406889	6.48	N/A	B406889
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	B406885	<1.0	1.0	B406885	<1.0	1.0	B406885
Alkalinity (Total as CaCO3)	mg/L	370	B406885	210	1.0	B406885	75	1.0	B406885
Bicarbonate (HCO3)	mg/L	460	B406885	260	1.0	B406885	91	1.0	B406885
Carbonate (CO3)	mg/L	<1.0	B406885	<1.0	1.0	B406885	<1.0	1.0	B406885
Hydroxide (OH)	mg/L	<1.0	B406885	<1.0	1.0	B406885	<1.0	1.0	B406885
Chloride (Cl)	mg/L	14	B403103	33	1.0	B403103	<1.0	1.0	B403103
Sulphate (SO4)	mg/L	250	B408829	300	5.0	B403103	48	1.0	B403103
Nutrients									
Nitrite (N)	mg/L	<0.010	B403095	<0.010	0.010	B403095	<0.010	0.010	B403095
Nitrate plus Nitrite (N)	mg/L	0.025	B403095	0.025	0.010	B403095	<0.010	0.010	B403095
Elements									
Dissolved Aluminum (Al)	mg/L	<0.0030	B403755	<0.0030	0.0030	B403755	1.0	0.0030	B408763
Dissolved Antimony (Sb)	mg/L	<0.00060	B403755	<0.00060	0.00060	B403755	<0.00060	0.00060	B403755
Dissolved Arsenic (As)	mg/L	<0.00020	B403755	0.0014	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Barium (Ba)	mg/L	0.094	B403868	0.046	0.010	B403868	0.021	0.010	B403868
Dissolved Beryllium (Be)	mg/L	<0.0010	B403755	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Boron (B)	mg/L	0.14	B403868	0.43	0.020	B403868	<0.020	0.020	B403868

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH933		CPH934			CPH936		
Sampling Date		2024/06/12 08:30		2024/06/12 08:35			2024/06/12 08:00		
COC Number		C#721082-01-01		C#721082-01-01			C#721082-01-01		
	UNITS	MW-04-OB	QC Batch	MW-04-BR	RDL	QC Batch	MW-05-BR	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	150	B403868	41	0.30	B403868	34	0.30	B403868
Dissolved Chromium (Cr)	mg/L	<0.0010	B403755	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Cobalt (Co)	mg/L	<0.00030	B403755	0.00032	0.00030	B403755	0.0072	0.00030	B408763
Dissolved Copper (Cu)	mg/L	<0.0010	B403755	<0.0010	0.0010	B403755	0.0098	0.0010	B408763
Dissolved Iron (Fe)	mg/L	0.70	B403868	<0.060	0.060	B403868	1.2	0.060	B408345
Dissolved Lead (Pb)	mg/L	<0.00020	B403755	<0.00020	0.00020	B403755	0.00056	0.00020	B403755
Dissolved Lithium (Li)	mg/L	0.042	B403868	0.12	0.020	B403868	<0.020	0.020	B403868
Dissolved Magnesium (Mg)	mg/L	48	B403868	26	0.20	B403868	4.6	0.20	B403868
Dissolved Manganese (Mn)	mg/L	0.48	B403868	0.090	0.0040	B403868	0.29	0.0040	B403868
Dissolved Molybdenum (Mo)	mg/L	<0.00020	B403755	0.00087	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Nickel (Ni)	mg/L	<0.00050	B403755	0.00057	0.00050	B403755	0.0017	0.00050	B403755
Dissolved Phosphorus (P)	mg/L	<0.10	B403868	<0.10	0.10	B403868	<0.10	0.10	B403868
Dissolved Potassium (K)	mg/L	4.7	B403868	9.0	0.30	B403868	3.4	0.30	B403868
Dissolved Selenium (Se)	mg/L	<0.00020	B403755	<0.00020	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Silicon (Si)	mg/L	8.3	B403868	5.4	0.50	B403868	5.3	0.50	B403868
Dissolved Silver (Ag)	mg/L	<0.00010	B403755	<0.00010	0.00010	B403755	<0.00010	0.00010	B403755
Dissolved Sodium (Na)	mg/L	27	B403868	130	0.50	B403868	1.5	0.50	B403868
Dissolved Strontium (Sr)	mg/L	0.69	B403868	0.72	0.020	B403868	0.030	0.020	B403868
Dissolved Sulphur (S)	mg/L	73	B403868	79	0.20	B403868	13	0.20	B403868
Dissolved Thallium (Tl)	mg/L	<0.00020	B403755	<0.00020	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Tin (Sn)	mg/L	<0.0010	B403755	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Titanium (Ti)	mg/L	<0.0010	B403755	<0.0010	0.0010	B403755	0.047	0.0010	B408763
Dissolved Uranium (U)	mg/L	0.0010	B403755	0.0055	0.00010	B403755	0.0017	0.00010	B403755
Dissolved Vanadium (V)	mg/L	<0.0010	B403755	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Zinc (Zn)	mg/L	<0.0030	B403755	<0.0030	0.0030	B403755	0.025	0.0030	B403755
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH937		CPH938			CPH939		
Sampling Date		2024/06/12 10:25		2024/06/12 09:00			2024/06/12 09:25		
COC Number		C#721082-01-01		C#721082-01-01			C#721082-01-01		
	UNITS	MW-06-BR	RDL	MW-07-BR	RDL	QC Batch	MW-08-BR	RDL	QC Batch
Calculated Parameters									
Anion Sum	meq/L	8.6	N/A	5.5	N/A	B402654	3.8	N/A	B402654
Cation Sum	meq/L	6.5	N/A	4.0	N/A	B402654	3.4	N/A	B402654
Hardness (CaCO3)	mg/L	290	0.50	180	0.50	B402632	150	0.50	B402632
Ion Balance (% Difference)	%	14	N/A	16	N/A	B402646	5.6	N/A	B402646
Nitrate (N)	mg/L	0.076	0.010	0.58	0.010	B402666	0.29	0.010	B402666
Nitrate (NO3)	mg/L	0.34	0.044	2.6	0.044	B402661	1.3	0.044	B402661
Nitrite (NO2)	mg/L	<0.033	0.033	<0.033	0.033	B402661	<0.033	0.033	B402661
Calculated Total Dissolved Solids	mg/L	530	10	340	10	B402677	240	10	B402677
Elements									
Dissolved Cadmium (Cd)	ug/L	120	0.020	60	0.020	B402598	2.8	0.020	B402598
Misc. Inorganics									
Conductivity	uS/cm	690	2.0	500	2.0	B406891	390	2.0	B406891
pH	pH	5.95	N/A	4.56	N/A	B406889	6.13	N/A	B406889
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	<1.0	1.0	B406885	<1.0	1.0	B406885
Alkalinity (Total as CaCO3)	mg/L	25	1.0	<1.0	1.0	B406885	21	1.0	B406885
Bicarbonate (HCO3)	mg/L	30	1.0	<1.0	1.0	B406885	26	1.0	B406885
Carbonate (CO3)	mg/L	<1.0	1.0	<1.0	1.0	B406885	<1.0	1.0	B406885
Hydroxide (OH)	mg/L	<1.0	1.0	<1.0	1.0	B406885	<1.0	1.0	B406885
Chloride (Cl)	mg/L	<1.0	1.0	<1.0	1.0	B403103	<1.0	1.0	B403103
Sulphate (SO4)	mg/L	390	5.0	260	5.0	B403103	160	5.0	B408829
Nutrients									
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	B403095	<0.010	0.010	B403095
Nitrate plus Nitrite (N)	mg/L	0.076	0.010	0.58	0.010	B403095	0.29	0.010	B403095
Elements									
Dissolved Aluminum (Al)	mg/L	0.069	0.0030	3.8	0.0030	B403755	0.47	0.0030	B403755
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	<0.00060	0.00060	B403755	<0.00060	0.00060	B403755
Dissolved Arsenic (As)	mg/L	<0.00020	0.00020	<0.00020	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Barium (Ba)	mg/L	0.021	0.010	0.019	0.010	B403868	0.018	0.010	B403868
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Boron (B)	mg/L	0.046	0.020	<0.020	0.020	B403868	0.021	0.020	B403868

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH937		CPH938			CPH939		
Sampling Date		2024/06/12 10:25		2024/06/12 09:00			2024/06/12 09:25		
COC Number		C#721082-01-01		C#721082-01-01			C#721082-01-01		
	UNITS	MW-06-BR	RDL	MW-07-BR	RDL	QC Batch	MW-08-BR	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	86	0.30	54	0.30	B403868	44	0.30	B403868
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Cobalt (Co)	mg/L	0.047	0.00030	0.035	0.00030	B403755	0.030	0.00030	B403755
Dissolved Copper (Cu)	mg/L	0.54	0.0010	6.1	0.0040	B403755	0.57	0.0010	B403755
Dissolved Iron (Fe)	mg/L	4.6	0.060	<0.060	0.060	B403868	<0.060	0.060	B403868
Dissolved Lead (Pb)	mg/L	0.0038	0.00020	0.00038	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Lithium (Li)	mg/L	0.048	0.020	<0.020	0.020	B403868	0.035	0.020	B403868
Dissolved Magnesium (Mg)	mg/L	19	0.20	12	0.20	B403868	10	0.20	B403868
Dissolved Manganese (Mn)	mg/L	1.6	0.0040	0.53	0.0040	B403868	0.40	0.0040	B403868
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	<0.00020	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Nickel (Ni)	mg/L	0.016	0.00050	0.018	0.00050	B403755	0.014	0.00050	B403755
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	0.11	0.10	B403868	<0.10	0.10	B403868
Dissolved Potassium (K)	mg/L	7.5	0.30	6.4	0.30	B403868	5.0	0.30	B403868
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	0.00079	0.00020	B403755	0.00034	0.00020	B403755
Dissolved Silicon (Si)	mg/L	6.9	0.50	11	0.50	B403868	9.5	0.50	B403868
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	<0.00010	0.00010	B403755	<0.00010	0.00010	B403755
Dissolved Sodium (Na)	mg/L	4.7	0.50	2.6	0.50	B403868	3.5	0.50	B403868
Dissolved Strontium (Sr)	mg/L	0.15	0.020	0.075	0.020	B403868	0.092	0.020	B403868
Dissolved Sulphur (S)	mg/L	100	0.20	74	0.20	B403868	47	0.20	B403868
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	<0.00020	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Uranium (U)	mg/L	0.0021	0.00010	0.0032	0.00010	B403755	0.0026	0.00010	B403755
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Zinc (Zn)	mg/L	31	0.030	15	0.012	B403755	1.7	0.0030	B403755
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH940	CPH941			CPH942		
Sampling Date		2024/06/12 10:00	2024/06/12 10:15			2024/06/12 10:05		
COC Number		C#721082-01-01	C#721082-02-01			C#721082-02-01		
	UNITS	MW-09-OB	MW-10-OB	RDL	QC Batch	MW-11-OB	RDL	QC Batch
Calculated Parameters								
Anion Sum	meq/L	12	10	N/A	B402654	13	N/A	B402654
Cation Sum	meq/L	9.3	9.3	N/A	B402654	11	N/A	B402654
Hardness (CaCO3)	mg/L	410	400	0.50	B402632	520	0.50	B402632
Ion Balance (% Difference)	%	11	4.3	N/A	B402646	8.8	N/A	B402646
Nitrate (N)	mg/L	0.015	<0.010	0.010	B402666	0.029	0.010	B402666
Nitrate (NO3)	mg/L	0.066	<0.044	0.044	B402661	0.13	0.044	B402661
Nitrite (NO2)	mg/L	<0.033	<0.033	0.033	B402661	<0.033	0.033	B402661
Calculated Total Dissolved Solids	mg/L	710	640	10	B402677	770	10	B402677
Elements								
Dissolved Cadmium (Cd)	ug/L	0.44	3.8	0.020	B402598	<0.020	0.020	B402598
Misc. Inorganics								
Conductivity	uS/cm	880	860	2.0	B406891	1000	2.0	B406891
pH	pH	6.20	6.19	N/A	B406889	7.01	N/A	B406889
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	<1.0	1.0	B406885	<1.0	1.0	B406885
Alkalinity (Total as CaCO3)	mg/L	84	67	1.0	B406885	170	1.0	B406885
Bicarbonate (HCO3)	mg/L	100	82	1.0	B406885	210	1.0	B406885
Carbonate (CO3)	mg/L	<1.0	<1.0	1.0	B406885	<1.0	1.0	B406885
Hydroxide (OH)	mg/L	<1.0	<1.0	1.0	B406885	<1.0	1.0	B406885
Chloride (Cl)	mg/L	<1.0	<1.0	1.0	B403101	<1.0	1.0	B403103
Sulphate (SO4)	mg/L	480	420	5.0	B403101	470	5.0	B403103
Nutrients								
Nitrite (N)	mg/L	<0.010	<0.010	0.010	B403093	<0.010	0.010	B403095
Nitrate plus Nitrite (N)	mg/L	0.015	<0.010	0.010	B403093	0.029	0.010	B403095
Elements								
Dissolved Aluminum (Al)	mg/L	<0.0030	<0.0030	0.0030	B403755	<0.0030	0.0030	B403755
Dissolved Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B403755	<0.00060	0.00060	B403755
Dissolved Arsenic (As)	mg/L	0.0014	0.00033	0.00020	B403755	0.0013	0.00020	B403755
Dissolved Barium (Ba)	mg/L	0.013	0.017	0.010	B403868	0.066	0.010	B403868
Dissolved Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Boron (B)	mg/L	0.046	0.057	0.020	B403868	0.056	0.020	B403868

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH940	CPH941			CPH942		
Sampling Date		2024/06/12 10:00	2024/06/12 10:15			2024/06/12 10:05		
COC Number		C#721082-01-01	C#721082-02-01			C#721082-02-01		
	UNITS	MW-09-OB	MW-10-OB	RDL	QC Batch	MW-11-OB	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	120	120	0.30	B403868	150	0.30	B403868
Dissolved Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Cobalt (Co)	mg/L	0.038	0.041	0.00030	B403755	0.0030	0.00030	B403755
Dissolved Copper (Cu)	mg/L	<0.0010	<0.0010	0.0010	B403755	0.0010	0.0010	B403755
Dissolved Iron (Fe)	mg/L	14	18	0.060	B403868	1.2	0.060	B403868
Dissolved Lead (Pb)	mg/L	<0.00020	<0.00020	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Lithium (Li)	mg/L	0.050	0.052	0.020	B403868	0.040	0.020	B403868
Dissolved Magnesium (Mg)	mg/L	28	25	0.20	B403868	34	0.20	B403868
Dissolved Manganese (Mn)	mg/L	2.0	2.1	0.0040	B403868	1.6	0.0040	B403868
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00073	0.00020	B403755	0.0013	0.00020	B403755
Dissolved Nickel (Ni)	mg/L	0.014	0.018	0.00050	B403755	0.0013	0.00050	B403755
Dissolved Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B403868	<0.10	0.10	B403868
Dissolved Potassium (K)	mg/L	6.5	6.6	0.30	B403868	5.4	0.30	B403868
Dissolved Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Silicon (Si)	mg/L	8.4	8.1	0.50	B403868	8.5	0.50	B403868
Dissolved Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B403755	<0.00010	0.00010	B403755
Dissolved Sodium (Na)	mg/L	6.2	9.2	0.50	B403868	9.3	0.50	B403868
Dissolved Strontium (Sr)	mg/L	0.23	0.21	0.020	B403868	0.53	0.020	B403868
Dissolved Sulphur (S)	mg/L	120	120	0.20	B403868	120	0.20	B403868
Dissolved Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B403755	<0.00020	0.00020	B403755
Dissolved Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B403755	0.0011	0.0010	B403755
Dissolved Titanium (Ti)	mg/L	<0.0010	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Uranium (U)	mg/L	<0.00010	0.00047	0.00010	B403755	0.00019	0.00010	B403755
Dissolved Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B403755	<0.0010	0.0010	B403755
Dissolved Zinc (Zn)	mg/L	24	21	0.030	B403755	0.75	0.0030	B403755
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH943			CPH943			CPH944		
Sampling Date		2024/06/12			2024/06/12			2024/06/12 09:15		
COC Number		C#721082-02-01			C#721082-02-01			C#721082-02-01		
	UNITS	MW-100	RDL	QC Batch	MW-100 Lab-Dup	RDL	QC Batch	FIELD BLANK	RDL	QC Batch
Calculated Parameters										
Anion Sum	meq/L	2.5	N/A	B402654				0.0000	N/A	B402654
Cation Sum	meq/L	2.3	N/A	B402654				0.0040	N/A	B402654
Hardness (CaCO3)	mg/L	110	0.50	B402632				<0.50	0.50	B402632
Ion Balance (% Difference)	%	2.9	N/A	B402646				NC	N/A	B402646
Nitrate (N)	mg/L	<0.010	0.010	B402666				<0.010	0.010	B402666
Nitrate (NO3)	mg/L	<0.044	0.044	B402661				<0.044	0.044	B402661
Nitrite (NO2)	mg/L	<0.033	0.033	B402661				<0.033	0.033	B402661
Calculated Total Dissolved Solids	mg/L	140	10	B402677				<10	10	B402677
Elements										
Dissolved Cadmium (Cd)	ug/L	0.066	0.020	B402598				<0.020	0.020	B402598
Misc. Inorganics										
Conductivity	uS/cm	230	2.0	B406891	220	2.0	B406891	<2.0	2.0	B406891
pH	pH	6.42	N/A	B406889	6.49	N/A	B406889	5.38	N/A	B406889
Anions										
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B406885	<1.0	1.0	B406885	<1.0	1.0	B406885
Alkalinity (Total as CaCO3)	mg/L	76	1.0	B406885	72	1.0	B406885	<1.0	1.0	B406885
Bicarbonate (HCO3)	mg/L	93	1.0	B406885	88	1.0	B406885	<1.0	1.0	B406885
Carbonate (CO3)	mg/L	<1.0	1.0	B406885	<1.0	1.0	B406885	<1.0	1.0	B406885
Hydroxide (OH)	mg/L	<1.0	1.0	B406885	<1.0	1.0	B406885	<1.0	1.0	B406885
Chloride (Cl)	mg/L	<1.0	1.0	B403103				<1.0	1.0	B403103
Sulphate (SO4)	mg/L	46	1.0	B403103				<1.0	1.0	B403103
Nutrients										
Nitrite (N)	mg/L	<0.010	0.010	B403095				<0.010	0.010	B403095
Nitrate plus Nitrite (N)	mg/L	<0.010	0.010	B403095				<0.010	0.010	B403095
Elements										
Dissolved Aluminum (Al)	mg/L	0.024	0.0030	B403755				<0.0030	0.0030	B403755
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B403755				<0.00060	0.00060	B403755
Dissolved Arsenic (As)	mg/L	<0.00020	0.00020	B403755				<0.00020	0.00020	B403755
Dissolved Barium (Ba)	mg/L	0.017	0.010	B403868				<0.010	0.010	B403868
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B403755				<0.0010	0.0010	B403755
Dissolved Boron (B)	mg/L	<0.020	0.020	B403868				<0.020	0.020	B403868

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH943			CPH943			CPH944		
Sampling Date		2024/06/12			2024/06/12			2024/06/12 09:15		
COC Number		C#721082-02-01			C#721082-02-01			C#721082-02-01		
	UNITS	MW-100	RDL	QC Batch	MW-100 Lab-Dup	RDL	QC Batch	FIELD BLANK	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	36	0.30	B403868				<0.30	0.30	B403868
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B403755				<0.0010	0.0010	B403755
Dissolved Cobalt (Co)	mg/L	0.0033	0.00030	B403755				<0.00030	0.00030	B403755
Dissolved Copper (Cu)	mg/L	0.0026	0.0010	B403755				<0.0010	0.0010	B403755
Dissolved Iron (Fe)	mg/L	<0.060	0.060	B403868				<0.060	0.060	B403868
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B403755				0.00025	0.00020	B403755
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B403868				<0.020	0.020	B403868
Dissolved Magnesium (Mg)	mg/L	4.5	0.20	B403868				<0.20	0.20	B403868
Dissolved Manganese (Mn)	mg/L	0.30	0.0040	B403868				<0.0040	0.0040	B403868
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B403755				<0.00020	0.00020	B403755
Dissolved Nickel (Ni)	mg/L	0.0015	0.00050	B403755				<0.00050	0.00050	B403755
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B403868				<0.10	0.10	B403868
Dissolved Potassium (K)	mg/L	3.5	0.30	B403868				<0.30	0.30	B403868
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B403755				<0.00020	0.00020	B403755
Dissolved Silicon (Si)	mg/L	5.0	0.50	B403868				<0.50	0.50	B403868
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B403755				<0.00010	0.00010	B403755
Dissolved Sodium (Na)	mg/L	1.5	0.50	B403868				<0.50	0.50	B403868
Dissolved Strontium (Sr)	mg/L	0.031	0.020	B403868				<0.020	0.020	B403868
Dissolved Sulphur (S)	mg/L	14	0.20	B403868				<0.20	0.20	B403868
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B403755				<0.00020	0.00020	B403755
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B403755				0.0019	0.0010	B403755
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B403755				<0.0010	0.0010	B403755
Dissolved Uranium (U)	mg/L	0.0017	0.00010	B403755				<0.00010	0.00010	B403755
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B403755				<0.0010	0.0010	B403755
Dissolved Zinc (Zn)	mg/L	0.027	0.0030	B403755				<0.0030	0.0030	B403755

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH945		
Sampling Date		2024/06/12		
COC Number		C#721082-02-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Calculated Parameters				
Anion Sum	meq/L	0.0000	N/A	B402654
Cation Sum	meq/L	0.0090	N/A	B402654
Hardness (CaCO3)	mg/L	<0.50	0.50	B402632
Ion Balance (% Difference)	%	NC	N/A	B402646
Nitrate (N)	mg/L	<0.010	0.010	B402666
Nitrate (NO3)	mg/L	<0.044	0.044	B402661
Nitrite (NO2)	mg/L	<0.033	0.033	B402661
Calculated Total Dissolved Solids	mg/L	<10	10	B402677
Elements				
Dissolved Cadmium (Cd)	ug/L	<0.020	0.020	B402598
Misc. Inorganics				
Conductivity	uS/cm	<2.0	2.0	B406891
pH	pH	5.05	N/A	B406889
Anions				
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B406885
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	B406885
Bicarbonate (HCO3)	mg/L	<1.0	1.0	B406885
Carbonate (CO3)	mg/L	<1.0	1.0	B406885
Hydroxide (OH)	mg/L	<1.0	1.0	B406885
Chloride (Cl)	mg/L	<1.0	1.0	B403103
Sulphate (SO4)	mg/L	<1.0	1.0	B403103
Nutrients				
Nitrite (N)	mg/L	<0.010	0.010	B403095
Nitrate plus Nitrite (N)	mg/L	<0.010	0.010	B403095
Elements				
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	B403755
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B403755
Dissolved Arsenic (As)	mg/L	<0.00020	0.00020	B403755
Dissolved Barium (Ba)	mg/L	<0.010	0.010	B403868
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B403755
Dissolved Boron (B)	mg/L	<0.020	0.020	B403868

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (WATER)

Bureau Veritas ID		CPH945		
Sampling Date		2024/06/12		
COC Number		C#721082-02-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Dissolved Calcium (Ca)	mg/L	<0.30	0.30	B403868
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B403755
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B403755
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	B403755
Dissolved Iron (Fe)	mg/L	<0.060	0.060	B403868
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B403755
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B403868
Dissolved Magnesium (Mg)	mg/L	<0.20	0.20	B403868
Dissolved Manganese (Mn)	mg/L	<0.0040	0.0040	B403868
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B403755
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B403755
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B403868
Dissolved Potassium (K)	mg/L	<0.30	0.30	B403868
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B403755
Dissolved Silicon (Si)	mg/L	<0.50	0.50	B403868
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B403755
Dissolved Sodium (Na)	mg/L	<0.50	0.50	B403868
Dissolved Strontium (Sr)	mg/L	<0.020	0.020	B403868
Dissolved Sulphur (S)	mg/L	<0.20	0.20	B403868
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B403755
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B403755
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B403755
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B403755
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B403755
Dissolved Zinc (Zn)	mg/L	<0.0030	0.0030	B403755
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH929		CPH931		CPH932		
Sampling Date		2024/06/12 08:15		2024/06/12 08:45		2024/06/12 09:50		
COC Number		C#721082-01-01		C#721082-01-01		C#721082-01-01		
	UNITS	MW-01-BR	QC Batch	MW-02-BR	QC Batch	MW-03-OB	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.082	B401826	0.14	B401826	<0.020	0.020	B401826
Total Aluminum (Al)	mg/L	1.6	B405136	43	B406224	0.11	0.0030	B405136
Total Antimony (Sb)	mg/L	<0.00060	B405136	<0.00060	B406224	<0.00060	0.00060	B405136
Total Arsenic (As)	mg/L	0.0027	B405136	0.0028	B406224	0.0023	0.00020	B405136
Total Barium (Ba)	mg/L	0.085	B405142	0.22	B406232	0.096	0.010	B405142
Total Beryllium (Be)	mg/L	<0.0010	B405136	<0.0010	B406224	<0.0010	0.0010	B405136
Total Boron (B)	mg/L	0.20	B405142	0.51	B406232	0.070	0.020	B405142
Total Calcium (Ca)	mg/L	260	B405142	73	B406232	130	0.30	B405142
Total Chromium (Cr)	mg/L	0.0025	B405136	0.011	B406224	<0.0010	0.0010	B405136
Total Cobalt (Co)	mg/L	0.0084	B405136	0.32	B406224	0.00088	0.00030	B405136
Total Copper (Cu)	mg/L	0.010	B405136	0.44	B406224	<0.0010	0.0010	B405136
Total Iron (Fe)	mg/L	6.3	B405142	37	B406232	3.7	0.060	B405142
Total Lead (Pb)	mg/L	0.0017	B405136	0.0048	B406224	<0.00020	0.00020	B405136
Total Lithium (Li)	mg/L	0.036	B405142	0.11	B406232	0.029	0.020	B405142
Total Magnesium (Mg)	mg/L	150	B405142	28	B406232	24	0.20	B405142
Total Manganese (Mn)	mg/L	1.2	B405142	0.91	B406232	1.1	0.0040	B405142
Total Molybdenum (Mo)	mg/L	0.0032	B405136	0.0022	B406224	0.00068	0.00020	B405136
Total Nickel (Ni)	mg/L	0.0046	B405136	0.034	B406224	0.0013	0.00050	B405136
Total Phosphorus (P)	mg/L	<0.10	B405142	0.85	B406232	<0.10	0.10	B405142
Total Potassium (K)	mg/L	19	B405142	17	B406232	7.6	0.30	B405142
Total Selenium (Se)	mg/L	0.0033	B405136	<0.00020	B406224	<0.00020	0.00020	B405136
Total Silicon (Si)	mg/L	11	B405142	63	B406232	9.3	0.50	B405142
Total Silver (Ag)	mg/L	<0.00010	B405136	<0.00010	B406224	<0.00010	0.00010	B405136
Total Sodium (Na)	mg/L	42	B405142	95	B406232	15	0.50	B405142
Total Strontium (Sr)	mg/L	1.9	B405142	0.39	B406232	0.41	0.020	B405142
Total Sulphur (S)	mg/L	300	B405142	32	B406232	85	0.20	B405142
Total Thallium (Tl)	mg/L	<0.00020	B405136	<0.00020	B406224	<0.00020	0.00020	B405136
Total Tin (Sn)	mg/L	0.0012	B405136	0.025	B406224	<0.0010	0.0010	B405136
Total Titanium (Ti)	mg/L	0.098	B405136	1.7	B406224	0.022	0.0010	B405136
Total Uranium (U)	mg/L	0.076	B405136	0.0068	B406224	0.0015	0.00010	B405136
Total Vanadium (V)	mg/L	0.0055	B405136	0.059	B406224	<0.0010	0.0010	B405136
Total Zinc (Zn)	mg/L	0.012	B405136	0.12	B406224	0.40	0.0030	B405136

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH933			CPH934		CPH936		
Sampling Date		2024/06/12 08:30			2024/06/12 08:35		2024/06/12 08:00		
COC Number		C#721082-01-01			C#721082-01-01		C#721082-01-01		
	UNITS	MW-04-OB	RDL	QC Batch	MW-04-BR	QC Batch	MW-05-BR	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	1.5	0.020	B401826	<0.020	B401826	0.069	0.020	B401826
Total Aluminum (Al)	mg/L	110	0.0030	B405136	0.94	B406224	0.028	0.0030	B409764
Total Antimony (Sb)	mg/L	0.00068	0.00060	B405136	<0.00060	B406224	<0.00060	0.00060	B409764
Total Arsenic (As)	mg/L	0.021	0.00020	B405136	0.0016	B406224	<0.00020	0.00020	B409764
Total Barium (Ba)	mg/L	1.1	0.010	B405142	0.051	B406232	0.018	0.010	B409706
Total Beryllium (Be)	mg/L	0.0051	0.0010	B405136	<0.0010	B406224	<0.0010	0.0010	B409764
Total Boron (B)	mg/L	0.19	0.020	B405142	0.43	B406232	0.023	0.020	B409706
Total Calcium (Ca)	mg/L	210	0.30	B405142	41	B406232	36	0.30	B409706
Total Chromium (Cr)	mg/L	0.30	0.0010	B405136	<0.0010	B406224	<0.0010	0.0010	B409764
Total Cobalt (Co)	mg/L	0.075	0.00030	B405136	0.00052	B406224	0.0032	0.00030	B409764
Total Copper (Cu)	mg/L	0.25	0.0010	B405136	0.0056	B406224	0.0026	0.0010	B409764
Total Iron (Fe)	mg/L	170	0.060	B405142	0.38	B406232	<0.060	0.060	B409706
Total Lead (Pb)	mg/L	0.052	0.00020	B405136	0.00054	B406224	<0.00020	0.00020	B409764
Total Lithium (Li)	mg/L	0.24	0.020	B405142	0.11	B406232	<0.020	0.020	B409706
Total Magnesium (Mg)	mg/L	120	0.20	B405142	27	B406232	4.6	0.20	B409706
Total Manganese (Mn)	mg/L	3.2	0.0040	B405142	0.11	B406232	0.32	0.0040	B409706
Total Molybdenum (Mo)	mg/L	0.0023	0.00020	B405136	0.00099	B406224	0.00023	0.00020	B409764
Total Nickel (Ni)	mg/L	0.20	0.00050	B405136	0.0026	B406224	0.0014	0.00050	B409764
Total Phosphorus (P)	mg/L	5.4	0.10	B405142	<0.10	B406232	<0.10	0.10	B409706
Total Potassium (K)	mg/L	40	0.30	B405142	9.3	B406232	3.4	0.30	B409706
Total Selenium (Se)	mg/L	0.0013	0.00020	B405136	<0.00020	B406224	<0.00020	0.00020	B409764
Total Silicon (Si)	mg/L	130	2.5	B405142	7.8	B406232	5.3	0.50	B409706
Total Silver (Ag)	mg/L	0.00069	0.00010	B405136	<0.00010	B406224	<0.00010	0.00010	B409764
Total Sodium (Na)	mg/L	30	0.50	B405142	130	B406232	1.5	0.50	B409706
Total Strontium (Sr)	mg/L	0.93	0.020	B405142	0.77	B406232	0.027	0.020	B409706
Total Sulphur (S)	mg/L	81	0.20	B405142	82	B406232	14	0.20	B409706
Total Thallium (Tl)	mg/L	0.0014	0.00020	B405136	<0.00020	B406224	<0.00020	0.00020	B409764
Total Tin (Sn)	mg/L	0.0068	0.0010	B405136	<0.0010	B406224	<0.0010	0.0010	B409764
Total Titanium (Ti)	mg/L	8.0	0.0040	B405136	0.014	B406224	<0.0010	0.0010	B409764
Total Uranium (U)	mg/L	0.013	0.00010	B405136	0.0055	B406224	0.0016	0.00010	B409764
Total Vanadium (V)	mg/L	0.33	0.0010	B405136	<0.0010	B406224	<0.0010	0.0010	B409764
Total Zinc (Zn)	mg/L	0.76	0.0030	B405136	<0.0030	B406224	0.025	0.0030	B409764

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH937			CPH938		CPH939		
Sampling Date		2024/06/12 10:25			2024/06/12 09:00		2024/06/12 09:25		
COC Number		C#721082-01-01			C#721082-01-01		C#721082-01-01		
	UNITS	MW-06-BR	RDL	QC Batch	MW-07-BR	RDL	MW-08-BR	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	130	0.020	B401826	71	0.020	3.8	0.020	B401826
Total Aluminum (Al)	mg/L	0.11	0.0030	B404671	5.1	0.0030	3.5	0.0030	B405136
Total Antimony (Sb)	mg/L	<0.00060	0.00060	B404671	<0.00060	0.00060	<0.00060	0.00060	B405136
Total Arsenic (As)	mg/L	0.00022	0.00020	B404671	0.00021	0.00020	0.00081	0.00020	B405136
Total Barium (Ba)	mg/L	0.025	0.010	B404675	0.020	0.010	0.026	0.010	B405142
Total Beryllium (Be)	mg/L	<0.0010	0.0010	B404671	<0.0010	0.0010	<0.0010	0.0010	B405136
Total Boron (B)	mg/L	0.035	0.020	B404675	<0.020	0.020	0.025	0.020	B405142
Total Calcium (Ca)	mg/L	89	0.30	B404675	53	0.30	44	0.30	B405142
Total Chromium (Cr)	mg/L	<0.0010	0.0010	B404671	<0.0010	0.0010	0.0027	0.0010	B405136
Total Cobalt (Co)	mg/L	0.052	0.00030	B404671	0.043	0.00030	0.043	0.00030	B405136
Total Copper (Cu)	mg/L	0.63	0.0010	B404671	6.1	0.010	0.65	0.0010	B405136
Total Iron (Fe)	mg/L	5.9	0.060	B404675	0.069	0.060	2.2	0.060	B405142
Total Lead (Pb)	mg/L	0.010	0.00020	B404671	0.00051	0.00020	0.0026	0.00020	B405136
Total Lithium (Li)	mg/L	0.044	0.020	B404675	<0.020	0.020	0.035	0.020	B405142
Total Magnesium (Mg)	mg/L	20	0.20	B404675	12	0.20	11	0.20	B405142
Total Manganese (Mn)	mg/L	1.8	0.0040	B404675	0.58	0.0040	0.41	0.0040	B405142
Total Molybdenum (Mo)	mg/L	0.00021	0.00020	B404671	0.00025	0.00020	0.00070	0.00020	B405136
Total Nickel (Ni)	mg/L	0.019	0.00050	B404671	0.022	0.00050	0.025	0.00050	B405136
Total Phosphorus (P)	mg/L	<0.10	0.10	B404675	0.13	0.10	<0.10	0.10	B405142
Total Potassium (K)	mg/L	7.6	0.30	B404675	6.3	0.30	5.0	0.30	B405142
Total Selenium (Se)	mg/L	<0.00020	0.00020	B404671	0.0012	0.00020	0.00048	0.00020	B405136
Total Silicon (Si)	mg/L	8.0	0.50	B404675	11	0.50	12	0.50	B405142
Total Silver (Ag)	mg/L	<0.00010	0.00010	B404671	<0.00010	0.00010	<0.00010	0.00010	B405136
Total Sodium (Na)	mg/L	4.8	0.50	B404675	2.6	0.50	3.3	0.50	B405142
Total Strontium (Sr)	mg/L	0.17	0.020	B404675	0.079	0.020	0.095	0.020	B405142
Total Sulphur (S)	mg/L	110	0.20	B404675	76	0.20	49	0.20	B405142
Total Thallium (Tl)	mg/L	<0.00020	0.00020	B404671	<0.00020	0.00020	<0.00020	0.00020	B405136
Total Tin (Sn)	mg/L	0.0011	0.0010	B404671	<0.0010	0.0010	0.0031	0.0010	B405136
Total Titanium (Ti)	mg/L	0.0012	0.0010	B404671	<0.0010	0.0010	0.065	0.0010	B405136
Total Uranium (U)	mg/L	0.0026	0.00010	B404671	0.0042	0.00010	0.0051	0.00010	B405136
Total Vanadium (V)	mg/L	<0.0010	0.0010	B404671	<0.0010	0.0010	0.0026	0.0010	B405136
Total Zinc (Zn)	mg/L	30	0.030	B404671	16	0.030	2.2	0.0030	B405136

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH940		CPH941			CPH942		
Sampling Date		2024/06/12 10:00		2024/06/12 10:15			2024/06/12 10:05		
COC Number		C#721082-01-01		C#721082-02-01			C#721082-02-01		
	UNITS	MW-09-OB	QC Batch	MW-10-OB	RDL	QC Batch	MW-11-OB	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.74	B401826	5.7	0.020	B401826	0.025	0.020	B401826
Total Aluminum (Al)	mg/L	2.6	B405136	0.29	0.0030	B404671	0.63	0.0030	B405136
Total Antimony (Sb)	mg/L	<0.00060	B405136	<0.00060	0.00060	B404671	<0.00060	0.00060	B405136
Total Arsenic (As)	mg/L	0.0018	B405136	0.00048	0.00020	B404671	0.0026	0.00020	B405136
Total Barium (Ba)	mg/L	0.029	B405142	0.021	0.010	B404675	0.077	0.010	B405142
Total Beryllium (Be)	mg/L	<0.0010	B405136	<0.0010	0.0010	B404671	<0.0010	0.0010	B405136
Total Boron (B)	mg/L	0.048	B405142	0.058	0.020	B404675	0.061	0.020	B405142
Total Calcium (Ca)	mg/L	120	B405142	120	0.30	B404675	150	0.30	B405142
Total Chromium (Cr)	mg/L	0.0049	B405136	<0.0010	0.0010	B404671	0.0016	0.0010	B405136
Total Cobalt (Co)	mg/L	0.051	B405136	0.051	0.00030	B404671	0.0040	0.00030	B405136
Total Copper (Cu)	mg/L	0.0032	B405136	0.0037	0.0010	B404671	0.0016	0.0010	B405136
Total Iron (Fe)	mg/L	18	B405142	20	0.060	B404675	2.5	0.060	B405142
Total Lead (Pb)	mg/L	0.0011	B405136	<0.00020	0.00020	B404671	0.00028	0.00020	B405136
Total Lithium (Li)	mg/L	0.049	B405142	0.053	0.020	B404675	0.035	0.020	B405142
Total Magnesium (Mg)	mg/L	28	B405142	25	0.20	B404675	34	0.20	B405142
Total Manganese (Mn)	mg/L	2.3	B405142	2.3	0.0040	B404675	1.9	0.0040	B405142
Total Molybdenum (Mo)	mg/L	0.0058	B405136	0.00084	0.00020	B404671	0.0023	0.00020	B405136
Total Nickel (Ni)	mg/L	0.021	B405136	0.024	0.00050	B404671	0.0025	0.00050	B405136
Total Phosphorus (P)	mg/L	<0.10	B405142	<0.10	0.10	B404675	<0.10	0.10	B405142
Total Potassium (K)	mg/L	7.0	B405142	6.7	0.30	B404675	5.5	0.30	B405142
Total Selenium (Se)	mg/L	<0.00020	B405136	<0.00020	0.00020	B404671	<0.00020	0.00020	B405136
Total Silicon (Si)	mg/L	13	B405142	9.5	0.50	B404675	10	0.50	B405142
Total Silver (Ag)	mg/L	<0.00010	B405136	<0.00010	0.00010	B404671	<0.00010	0.00010	B405136
Total Sodium (Na)	mg/L	6.4	B405142	9.4	0.50	B404675	9.3	0.50	B405142
Total Strontium (Sr)	mg/L	0.25	B405142	0.23	0.020	B404675	0.57	0.020	B405142
Total Sulphur (S)	mg/L	130	B405142	130	0.20	B404675	130	0.20	B405142
Total Thallium (Tl)	mg/L	<0.00020	B405136	<0.00020	0.00020	B404671	<0.00020	0.00020	B405136
Total Tin (Sn)	mg/L	0.0012	B405136	<0.0010	0.0010	B404671	0.0012	0.0010	B405136
Total Titanium (Ti)	mg/L	0.16	B405136	0.026	0.0010	B404671	0.053	0.0010	B405136
Total Uranium (U)	mg/L	0.00027	B405136	0.00061	0.00010	B404671	0.00029	0.00010	B405136
Total Vanadium (V)	mg/L	0.0054	B405136	0.0010	0.0010	B404671	0.0018	0.0010	B405136
Total Zinc (Zn)	mg/L	24	B405136	20	0.030	B404671	0.97	0.0030	B405136

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CPH943	CPH944		CPH945		
Sampling Date		2024/06/12	2024/06/12 09:15		2024/06/12		
COC Number		C#721082-02-01	C#721082-02-01		C#721082-02-01		
	UNITS	MW-100	FIELD BLANK	QC Batch	TRIP BLANK	RDL	QC Batch
Elements							
Total Cadmium (Cd)	ug/L	0.082	<0.020	B401826	<0.020	0.020	B402606
Total Aluminum (Al)	mg/L	1.7	<0.0030	B405136	<0.0030	0.0030	B406224
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	B405136	<0.00060	0.00060	B406224
Total Arsenic (As)	mg/L	0.00024	<0.00020	B405136	<0.00020	0.00020	B406224
Total Barium (Ba)	mg/L	0.028	<0.010	B405142	<0.010	0.010	B406232
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	B405136	<0.0010	0.0010	B406224
Total Boron (B)	mg/L	<0.020	<0.020	B405142	<0.020	0.020	B406232
Total Calcium (Ca)	mg/L	36	0.40	B405142	<0.30	0.30	B406232
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	B405136	<0.0010	0.0010	B406224
Total Cobalt (Co)	mg/L	0.0067	<0.00030	B405136	<0.00030	0.00030	B406224
Total Copper (Cu)	mg/L	0.011	0.0013	B405136	<0.0010	0.0010	B406224
Total Iron (Fe)	mg/L	1.8	<0.060	B405142	<0.060	0.060	B406232
Total Lead (Pb)	mg/L	0.00076	<0.00020	B405136	<0.00020	0.00020	B406224
Total Lithium (Li)	mg/L	<0.020	<0.020	B405142	<0.020	0.020	B406232
Total Magnesium (Mg)	mg/L	5.0	<0.20	B405142	<0.20	0.20	B406232
Total Manganese (Mn)	mg/L	0.36	<0.0040	B405142	<0.0040	0.0040	B406232
Total Molybdenum (Mo)	mg/L	<0.00020	<0.00020	B405136	0.00027	0.00020	B406224
Total Nickel (Ni)	mg/L	0.0021	<0.00050	B405136	<0.00050	0.00050	B406224
Total Phosphorus (P)	mg/L	<0.10	<0.10	B405142	<0.10	0.10	B406232
Total Potassium (K)	mg/L	3.7	<0.30	B405142	<0.30	0.30	B406232
Total Selenium (Se)	mg/L	0.00020	<0.00020	B405136	<0.00020	0.00020	B406224
Total Silicon (Si)	mg/L	8.0	<0.50	B405142	<0.50	0.50	B406232
Total Silver (Ag)	mg/L	<0.00010	<0.00010	B405136	<0.00010	0.00010	B406224
Total Sodium (Na)	mg/L	1.7	<0.50	B405142	<0.50	0.50	B406232
Total Strontium (Sr)	mg/L	0.034	<0.020	B405142	<0.020	0.020	B406232
Total Sulphur (S)	mg/L	14	<0.20	B405142	<0.20	0.20	B406232
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	B405136	<0.00020	0.00020	B406224
Total Tin (Sn)	mg/L	<0.0010	<0.0010	B405136	<0.0010	0.0010	B406224
Total Titanium (Ti)	mg/L	0.067	<0.0010	B405136	<0.0010	0.0010	B406224
Total Uranium (U)	mg/L	0.0021	<0.00010	B405136	<0.00010	0.00010	B406224
Total Vanadium (V)	mg/L	0.0019	<0.0010	B405136	<0.0010	0.0010	B406224
Total Zinc (Zn)	mg/L	0.031	<0.0030	B405136	<0.0030	0.0030	B406224
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID		CPH929		CPH931			CPH932		
Sampling Date		2024/06/12 08:15		2024/06/12 08:45			2024/06/12 09:50		
COC Number		C#721082-01-01		C#721082-01-01			C#721082-01-01		
	UNITS	MW-01-BR	RDL	MW-02-BR	RDL	QC Batch	MW-03-OB	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	mg/L	<0.0000019	0.0000019	<0.0000019	0.0000019	B406511	<0.0000019	0.0000019	B407799
Total Mercury (Hg)	mg/L	<0.0000019	0.0000019	0.000026 (1)	0.000019	B407795	<0.0000019	0.0000019	B407795

RDL = Reportable Detection Limit
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Bureau Veritas ID		CPH932			CPH933		CPH934		
Sampling Date		2024/06/12 09:50			2024/06/12 08:30		2024/06/12 08:35		
COC Number		C#721082-01-01			C#721082-01-01		C#721082-01-01		
	UNITS	MW-03-OB Lab-Dup	RDL	QC Batch	MW-04-OB	RDL	MW-04-BR	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	mg/L				<0.0000019	0.0000019	<0.0000019	0.0000019	B407799
Total Mercury (Hg)	mg/L	<0.0000019	0.0000019	B407795	0.000084 (1)	0.000019	0.0000054	0.0000019	B407795

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
(1) Due to the sample matrix, sample required dilution. Detection limit was adjusted accordingly.

Bureau Veritas ID		CPH936	CPH937	CPH938	CPH939	CPH940		
Sampling Date		2024/06/12 08:00	2024/06/12 10:25	2024/06/12 09:00	2024/06/12 09:25	2024/06/12 10:00		
COC Number		C#721082-01-01	C#721082-01-01	C#721082-01-01	C#721082-01-01	C#721082-01-01		
	UNITS	MW-05-BR	MW-06-BR	MW-07-BR	MW-08-BR	MW-09-OB	RDL	QC Batch
Elements								
Dissolved Mercury (Hg)	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.0000019	B407799
Total Mercury (Hg)	mg/L	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.0000019	0.0000019	B407795

RDL = Reportable Detection Limit

Bureau Veritas ID		CPH941	CPH942	CPH943		CPH944		
Sampling Date		2024/06/12 10:15	2024/06/12 10:05	2024/06/12		2024/06/12 09:15		
COC Number		C#721082-02-01	C#721082-02-01	C#721082-02-01		C#721082-02-01		
	UNITS	MW-10-OB	MW-11-OB	MW-100	QC Batch	FIELD BLANK	RDL	QC Batch
Elements								
Dissolved Mercury (Hg)	mg/L	<0.0000019	<0.0000019	<0.0000019	B407799	<0.0000019	0.0000019	B407799
Total Mercury (Hg)	mg/L	<0.0000019	<0.0000019	0.0000023	B407795	<0.0000019	0.0000019	B406502

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

MERCURY BY COLD VAPOR (WATER)

Bureau Veritas ID		CPH945		
Sampling Date		2024/06/12		
COC Number		C#721082-02-01		
	UNITS	**TRIP BLANK**	**RDL**	**QC Batch**
Elements				
Dissolved Mercury (Hg)	mg/L	<0.0000019	0.0000019	B407799
Total Mercury (Hg)	mg/L	<0.0000019	0.0000019	B406532
RDL = Reportable Detection Limit				

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	6.8°C
Package 2	2.3°C

Sample CPH929, Chloride/Sulphate by Auto Colourimetry: Test repeated.
Sample CPH933, Chloride/Sulphate by Auto Colourimetry: Test repeated.
Sample CPH936, Elements by ICPMS - Dissolved: Test repeated.
Sample CPH936, Elements by ICP - Dissolved: Test repeated.
Sample CPH939, Chloride/Sulphate by Auto Colourimetry: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B403093	Nitrate plus Nitrite (N)	2024/06/14	100	80 - 120	96	80 - 120	<0.010	mg/L	NC	20
B403093	Nitrite (N)	2024/06/14	110	80 - 120	102	80 - 120	<0.010	mg/L	NC	20
B403095	Nitrate plus Nitrite (N)	2024/06/15	82	80 - 120	97	80 - 120	<0.010	mg/L	NC	20
B403095	Nitrite (N)	2024/06/15	102	80 - 120	102	80 - 120	<0.010	mg/L	NC	20
B403101	Chloride (Cl)	2024/06/14	105	80 - 120	100	80 - 120	<1.0	mg/L	0.082	20
B403101	Sulphate (SO4)	2024/06/14	105	80 - 120	102	80 - 120	<1.0	mg/L	NC	20
B403103	Chloride (Cl)	2024/06/14	100	80 - 120	100	80 - 120	<1.0	mg/L	NC	20
B403103	Sulphate (SO4)	2024/06/14	114	80 - 120	101	80 - 120	<1.0	mg/L	NC	20
B403755	Dissolved Aluminum (Al)	2024/06/15	95	80 - 120	105	80 - 120	<0.0030	mg/L	NC	20
B403755	Dissolved Antimony (Sb)	2024/06/15	94	80 - 120	98	80 - 120	<0.00060	mg/L	NC	20
B403755	Dissolved Arsenic (As)	2024/06/15	97	80 - 120	103	80 - 120	<0.00020	mg/L	3.6	20
B403755	Dissolved Beryllium (Be)	2024/06/15	89	80 - 120	94	80 - 120	<0.0010	mg/L	NC	20
B403755	Dissolved Chromium (Cr)	2024/06/15	92	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B403755	Dissolved Cobalt (Co)	2024/06/15	93	80 - 120	98	80 - 120	<0.00030	mg/L	NC	20
B403755	Dissolved Copper (Cu)	2024/06/15	93	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B403755	Dissolved Lead (Pb)	2024/06/15	93	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B403755	Dissolved Molybdenum (Mo)	2024/06/15	95	80 - 120	99	80 - 120	<0.00020	mg/L	11	20
B403755	Dissolved Nickel (Ni)	2024/06/15	93	80 - 120	98	80 - 120	<0.00050	mg/L	NC	20
B403755	Dissolved Selenium (Se)	2024/06/15	95	80 - 120	107	80 - 120	<0.00020	mg/L	NC	20
B403755	Dissolved Silver (Ag)	2024/06/15	92	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B403755	Dissolved Thallium (Tl)	2024/06/15	93	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B403755	Dissolved Tin (Sn)	2024/06/15	95	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B403755	Dissolved Titanium (Ti)	2024/06/15	93	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B403755	Dissolved Uranium (U)	2024/06/15	95	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B403755	Dissolved Vanadium (V)	2024/06/15	95	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B403755	Dissolved Zinc (Zn)	2024/06/15	92	80 - 120	96	80 - 120	<0.0030	mg/L	NC	20
B403868	Dissolved Barium (Ba)	2024/06/16	98	80 - 120	96	80 - 120	<0.010	mg/L	8.6	20
B403868	Dissolved Boron (B)	2024/06/16	97	80 - 120	99	80 - 120	<0.020	mg/L	NC	20
B403868	Dissolved Calcium (Ca)	2024/06/16	102	80 - 120	97	80 - 120	<0.30	mg/L	0.76	20
B403868	Dissolved Iron (Fe)	2024/06/16	94	80 - 120	100	80 - 120	<0.060	mg/L	NC	20
B403868	Dissolved Lithium (Li)	2024/06/16	100	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B403868	Dissolved Magnesium (Mg)	2024/06/16	101	80 - 120	96	80 - 120	<0.20	mg/L	1.3	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B403868	Dissolved Manganese (Mn)	2024/06/16	96	80 - 120	101	80 - 120	<0.0040	mg/L	2.8	20
B403868	Dissolved Phosphorus (P)	2024/06/16	95	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B403868	Dissolved Potassium (K)	2024/06/16	101	80 - 120	99	80 - 120	<0.30	mg/L	3.9	20
B403868	Dissolved Silicon (Si)	2024/06/16	87	80 - 120	96	80 - 120	<0.50	mg/L	4.5	20
B403868	Dissolved Sodium (Na)	2024/06/16	102	80 - 120	99	80 - 120	<0.50	mg/L	0.72	20
B403868	Dissolved Strontium (Sr)	2024/06/16	97	80 - 120	95	80 - 120	<0.020	mg/L	0.96	20
B403868	Dissolved Sulphur (S)	2024/06/16	101	80 - 120	95	80 - 120	<0.20	mg/L	6.2	20
B404671	Total Aluminum (Al)	2024/06/17	118	80 - 120	107	80 - 120	<0.0030	mg/L	8.5	20
B404671	Total Antimony (Sb)	2024/06/17	106	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20
B404671	Total Arsenic (As)	2024/06/17	110	80 - 120	110	80 - 120	<0.00020	mg/L	8.4	20
B404671	Total Beryllium (Be)	2024/06/17	118	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B404671	Total Chromium (Cr)	2024/06/17	110	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20
B404671	Total Cobalt (Co)	2024/06/17	108	80 - 120	105	80 - 120	<0.00030	mg/L	0.76	20
B404671	Total Copper (Cu)	2024/06/17	107	80 - 120	106	80 - 120	<0.0010	mg/L	6.0	20
B404671	Total Lead (Pb)	2024/06/17	108	80 - 120	101	80 - 120	<0.00020	mg/L	NC	20
B404671	Total Molybdenum (Mo)	2024/06/17	115	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B404671	Total Nickel (Ni)	2024/06/17	108	80 - 120	105	80 - 120	<0.00050	mg/L	NC	20
B404671	Total Selenium (Se)	2024/06/17	105	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B404671	Total Silver (Ag)	2024/06/17	109	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20
B404671	Total Thallium (Tl)	2024/06/17	111	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B404671	Total Tin (Sn)	2024/06/17	110	80 - 120	101	80 - 120	<0.0010	mg/L	NC	20
B404671	Total Titanium (Ti)	2024/06/17	109	80 - 120	104	80 - 120	<0.0010	mg/L	5.2	20
B404671	Total Uranium (U)	2024/06/17	112	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20
B404671	Total Vanadium (V)	2024/06/17	111	80 - 120	109	80 - 120	<0.0010	mg/L	NC	20
B404671	Total Zinc (Zn)	2024/06/17	105	80 - 120	108	80 - 120	<0.0030	mg/L	4.1	20
B404675	Total Barium (Ba)	2024/06/17	107	80 - 120	111	80 - 120	<0.010	mg/L	0.96	20
B404675	Total Boron (B)	2024/06/17	103	80 - 120	104	80 - 120	<0.020	mg/L	NC	20
B404675	Total Calcium (Ca)	2024/06/17	NC	80 - 120	107	80 - 120	<0.30	mg/L	2.1	20
B404675	Total Iron (Fe)	2024/06/17	109	80 - 120	111	80 - 120	<0.060	mg/L	3.2	20
B404675	Total Lithium (Li)	2024/06/17	105	80 - 120	109	80 - 120	<0.020	mg/L	NC	20
B404675	Total Magnesium (Mg)	2024/06/17	101	80 - 120	105	80 - 120	<0.20	mg/L	2.5	20
B404675	Total Manganese (Mn)	2024/06/17	109	80 - 120	111	80 - 120	<0.0040	mg/L	2.0	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B404675	Total Phosphorus (P)	2024/06/17	103	80 - 120	105	80 - 120	<0.10	mg/L	NC	20
B404675	Total Potassium (K)	2024/06/17	101	80 - 120	105	80 - 120	<0.30	mg/L	4.5	20
B404675	Total Silicon (Si)	2024/06/17	101	80 - 120	103	80 - 120	<0.50	mg/L	2.2	20
B404675	Total Sodium (Na)	2024/06/17	NC	80 - 120	107	80 - 120	<0.50	mg/L	1.9	20
B404675	Total Strontium (Sr)	2024/06/17	104	80 - 120	108	80 - 120	<0.020	mg/L	0	20
B404675	Total Sulphur (S)	2024/06/17	103	80 - 120	103	80 - 120	<0.20	mg/L	0.56	20
B405136	Total Aluminum (Al)	2024/06/18	NC	80 - 120	110	80 - 120	<0.0030	mg/L	0.34	20
B405136	Total Antimony (Sb)	2024/06/18	97	80 - 120	96	80 - 120	<0.00060	mg/L		
B405136	Total Arsenic (As)	2024/06/18	100	80 - 120	100	80 - 120	<0.00020	mg/L	2.3	20
B405136	Total Beryllium (Be)	2024/06/18	108	80 - 120	104	80 - 120	<0.0010	mg/L		
B405136	Total Chromium (Cr)	2024/06/18	98	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B405136	Total Cobalt (Co)	2024/06/18	95	80 - 120	99	80 - 120	<0.00030	mg/L		
B405136	Total Copper (Cu)	2024/06/18	93	80 - 120	98	80 - 120	<0.0010	mg/L	13	20
B405136	Total Lead (Pb)	2024/06/18	97	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B405136	Total Molybdenum (Mo)	2024/06/18	107	80 - 120	99	80 - 120	<0.00020	mg/L	74 (1)	20
B405136	Total Nickel (Ni)	2024/06/18	95	80 - 120	98	80 - 120	<0.00050	mg/L	19	20
B405136	Total Selenium (Se)	2024/06/18	95	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B405136	Total Silver (Ag)	2024/06/18	100	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B405136	Total Thallium (Tl)	2024/06/18	103	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B405136	Total Tin (Sn)	2024/06/18	103	80 - 120	97	80 - 120	<0.0010	mg/L		
B405136	Total Titanium (Ti)	2024/06/18	103	80 - 120	95	80 - 120	<0.0010	mg/L		
B405136	Total Uranium (U)	2024/06/18	103	80 - 120	102	80 - 120	<0.00010	mg/L	12	20
B405136	Total Vanadium (V)	2024/06/18	102	80 - 120	100	80 - 120	<0.0010	mg/L		
B405136	Total Zinc (Zn)	2024/06/18	93	80 - 120	96	80 - 120	<0.0030	mg/L	11	20
B405142	Total Barium (Ba)	2024/06/17	106	80 - 120	106	80 - 120	<0.010	mg/L		
B405142	Total Boron (B)	2024/06/17	101	80 - 120	102	80 - 120	<0.020	mg/L	8.6	20
B405142	Total Calcium (Ca)	2024/06/17	NC	80 - 120	99	80 - 120	<0.30	mg/L		
B405142	Total Iron (Fe)	2024/06/17	NC	80 - 120	103	80 - 120	<0.060	mg/L	NC	20
B405142	Total Lithium (Li)	2024/06/17	101	80 - 120	101	80 - 120	<0.020	mg/L		
B405142	Total Magnesium (Mg)	2024/06/17	NC	80 - 120	98	80 - 120	<0.20	mg/L		
B405142	Total Manganese (Mn)	2024/06/17	NC	80 - 120	105	80 - 120	<0.0040	mg/L		
B405142	Total Phosphorus (P)	2024/06/17	104	80 - 120	99	80 - 120	<0.10	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B405142	Total Potassium (K)	2024/06/17	NC	80 - 120	98	80 - 120	<0.30	mg/L		
B405142	Total Silicon (Si)	2024/06/17	NC	80 - 120	98	80 - 120	<0.50	mg/L		
B405142	Total Sodium (Na)	2024/06/17	101	80 - 120	99	80 - 120	<0.50	mg/L		
B405142	Total Strontium (Sr)	2024/06/17	103	80 - 120	103	80 - 120	<0.020	mg/L		
B405142	Total Sulphur (S)	2024/06/17	NC	80 - 120	99	80 - 120	<0.20	mg/L		
B406224	Total Aluminum (Al)	2024/06/18	NC	80 - 120	91	80 - 120	<0.0030	mg/L	14	20
B406224	Total Antimony (Sb)	2024/06/18	97	80 - 120	89	80 - 120	<0.00060	mg/L	NC	20
B406224	Total Arsenic (As)	2024/06/18	101	80 - 120	97	80 - 120	<0.00020	mg/L	12	20
B406224	Total Beryllium (Be)	2024/06/18	97	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Chromium (Cr)	2024/06/18	92	80 - 120	88	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Cobalt (Co)	2024/06/18	92	80 - 120	89	80 - 120	<0.00030	mg/L	NC	20
B406224	Total Copper (Cu)	2024/06/18	91	80 - 120	90	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Lead (Pb)	2024/06/18	94	80 - 120	90	80 - 120	<0.00020	mg/L	NC	20
B406224	Total Molybdenum (Mo)	2024/06/18	99	80 - 120	91	80 - 120	<0.00020	mg/L	NC	20
B406224	Total Nickel (Ni)	2024/06/18	91	80 - 120	89	80 - 120	<0.00050	mg/L	NC	20
B406224	Total Selenium (Se)	2024/06/18	99	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B406224	Total Silver (Ag)	2024/06/18	97	80 - 120	91	80 - 120	<0.00010	mg/L	NC	20
B406224	Total Thallium (Tl)	2024/06/18	99	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B406224	Total Tin (Sn)	2024/06/18	100	80 - 120	93	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Titanium (Ti)	2024/06/18	92	80 - 120	89	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Uranium (U)	2024/06/18	100	80 - 120	93	80 - 120	<0.00010	mg/L	NC	20
B406224	Total Vanadium (V)	2024/06/18	94	80 - 120	90	80 - 120	<0.0010	mg/L	NC	20
B406224	Total Zinc (Zn)	2024/06/18	98	80 - 120	97	80 - 120	<0.0030	mg/L	NC	20
B406232	Total Barium (Ba)	2024/06/18	106	80 - 120	102	80 - 120	<0.010	mg/L	2.5	20
B406232	Total Boron (B)	2024/06/18	100	80 - 120	100	80 - 120	<0.020	mg/L	NC	20
B406232	Total Calcium (Ca)	2024/06/18	101	80 - 120	94	80 - 120	<0.30	mg/L	6.0	20
B406232	Total Iron (Fe)	2024/06/18	95	80 - 120	90	80 - 120	<0.060	mg/L	NC	20
B406232	Total Lithium (Li)	2024/06/18	101	80 - 120	94	80 - 120	<0.020	mg/L	NC	20
B406232	Total Magnesium (Mg)	2024/06/18	104	80 - 120	97	80 - 120	<0.20	mg/L	7.7	20
B406232	Total Manganese (Mn)	2024/06/18	100	80 - 120	97	80 - 120	<0.0040	mg/L	1.2	20
B406232	Total Phosphorus (P)	2024/06/18	92	80 - 120	90	80 - 120	<0.10	mg/L	NC	20
B406232	Total Potassium (K)	2024/06/18	105	80 - 120	99	80 - 120	<0.30	mg/L	8.6	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B406232	Total Silicon (Si)	2024/06/18	92	80 - 120	92	80 - 120	<0.50	mg/L	1.9	20
B406232	Total Sodium (Na)	2024/06/18	101	80 - 120	95	80 - 120	<0.50	mg/L	5.4	20
B406232	Total Strontium (Sr)	2024/06/18	105	80 - 120	100	80 - 120	<0.020	mg/L	2.8	20
B406232	Total Sulphur (S)	2024/06/18	93	80 - 120	93	80 - 120	<0.20	mg/L	2.4	20
B406502	Total Mercury (Hg)	2024/06/19	101	80 - 120	95	80 - 120	<0.0000019	mg/L	NC	20
B406511	Dissolved Mercury (Hg)	2024/06/18	99	80 - 120	96	80 - 120	<0.0000019	mg/L	NC	20
B406532	Total Mercury (Hg)	2024/06/18	87	80 - 120	95	80 - 120	<0.0000019	mg/L	NC	20
B406885	Alkalinity (PP as CaCO3)	2024/06/18					<1.0	mg/L	NC	20
B406885	Alkalinity (Total as CaCO3)	2024/06/18			98	80 - 120	<1.0	mg/L	5.1	20
B406885	Bicarbonate (HCO3)	2024/06/18					<1.0	mg/L	5.1	20
B406885	Carbonate (CO3)	2024/06/18					<1.0	mg/L	NC	20
B406885	Hydroxide (OH)	2024/06/18					<1.0	mg/L	NC	20
B406889	pH	2024/06/18			100	97 - 103			1.2	N/A
B406891	Conductivity	2024/06/19			101	90 - 110	<2.0	uS/cm	0.45	10
B407795	Total Mercury (Hg)	2024/06/19	93	80 - 120	105	80 - 120	<0.0000019	mg/L	NC	20
B407799	Dissolved Mercury (Hg)	2024/06/19	95	80 - 120	105	80 - 120	<0.0000019	mg/L	NC	20
B408345	Dissolved Iron (Fe)	2024/06/19	NC	80 - 120	101	80 - 120	<0.060	mg/L	8.1	20
B408763	Dissolved Aluminum (Al)	2024/06/19	101	80 - 120	100	80 - 120	<0.0030	mg/L		
B408763	Dissolved Cobalt (Co)	2024/06/19	97	80 - 120	99	80 - 120	<0.00030	mg/L		
B408763	Dissolved Copper (Cu)	2024/06/19	92	80 - 120	101	80 - 120	<0.0010	mg/L		
B408763	Dissolved Titanium (Ti)	2024/06/19	110	80 - 120	100	80 - 120	<0.0010	mg/L		
B408829	Sulphate (SO4)	2024/06/19	NC	80 - 120	101	80 - 120	<1.0	mg/L	0.69	20
B409706	Total Barium (Ba)	2024/06/20	95	80 - 120	95	80 - 120	<0.010	mg/L	3.5	20
B409706	Total Boron (B)	2024/06/20	97	80 - 120	97	80 - 120	<0.020	mg/L	2.5	20
B409706	Total Calcium (Ca)	2024/06/20	NC	80 - 120	94	80 - 120	<0.30	mg/L	2.8	20
B409706	Total Iron (Fe)	2024/06/20	NC	80 - 120	102	80 - 120	<0.060	mg/L	4.3	20
B409706	Total Lithium (Li)	2024/06/20	92	80 - 120	91	80 - 120	<0.020	mg/L	NC	20
B409706	Total Magnesium (Mg)	2024/06/20	92	80 - 120	94	80 - 120	<0.20	mg/L	4.4	20
B409706	Total Manganese (Mn)	2024/06/20	103	80 - 120	103	80 - 120	<0.0040	mg/L	4.1	20
B409706	Total Phosphorus (P)	2024/06/20	101	80 - 120	102	80 - 120	<0.10	mg/L	8.0	20
B409706	Total Potassium (K)	2024/06/20	92	80 - 120	91	80 - 120	<0.30	mg/L	3.4	20
B409706	Total Silicon (Si)	2024/06/20	93	80 - 120	97	80 - 120	<0.50	mg/L	2.8	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B409706	Total Sodium (Na)	2024/06/20	92	80 - 120	92	80 - 120	<0.50	mg/L	2.8	20
B409706	Total Strontium (Sr)	2024/06/20	89	80 - 120	91	80 - 120	<0.020	mg/L	4.1	20
B409706	Total Sulphur (S)	2024/06/20	97	80 - 120	98	80 - 120	<0.20	mg/L	6.6	20
B409764	Total Aluminum (Al)	2024/06/20	98	80 - 120	99	80 - 120	<0.0030	mg/L	3.2	20
B409764	Total Antimony (Sb)	2024/06/20	98	80 - 120	96	80 - 120	<0.00060	mg/L	NC	20
B409764	Total Arsenic (As)	2024/06/20	105	80 - 120	101	80 - 120	<0.00020	mg/L	8.4	20
B409764	Total Beryllium (Be)	2024/06/20	94	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B409764	Total Chromium (Cr)	2024/06/20	100	80 - 120	99	80 - 120	<0.0010	mg/L	27 (1)	20
B409764	Total Cobalt (Co)	2024/06/20	98	80 - 120	97	80 - 120	<0.00030	mg/L	8.2	20
B409764	Total Copper (Cu)	2024/06/20	98	80 - 120	98	80 - 120	<0.0010	mg/L	12	20
B409764	Total Lead (Pb)	2024/06/20	97	80 - 120	94	80 - 120	<0.00020	mg/L	9.2	20
B409764	Total Molybdenum (Mo)	2024/06/20	104	80 - 120	100	80 - 120	<0.00020	mg/L	3.5	20
B409764	Total Nickel (Ni)	2024/06/20	99	80 - 120	98	80 - 120	<0.00050	mg/L	21 (1)	20
B409764	Total Selenium (Se)	2024/06/20	101	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B409764	Total Silver (Ag)	2024/06/20	99	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B409764	Total Thallium (Tl)	2024/06/20	100	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B409764	Total Tin (Sn)	2024/06/20	104	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B409764	Total Titanium (Ti)	2024/06/20	101	80 - 120	100	80 - 120	<0.0010	mg/L	8.3	20
B409764	Total Uranium (U)	2024/06/20	103	80 - 120	101	80 - 120	<0.00010	mg/L	1.8	20
B409764	Total Vanadium (V)	2024/06/20	103	80 - 120	100	80 - 120	<0.0010	mg/L	6.7	20
B409764	Total Zinc (Zn)	2024/06/20	92	80 - 120	99	80 - 120	<0.0030	mg/L	44 (1)	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Sandy Yuan, M.Sc., QP, Scientific Specialist

Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#7500 KGS Group	Company Name:		Quotation #:	C31455	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Ed Collins	P.O. #:			721082
Address:	865 Waverly St., 3rd Floor	Address:		Project:	21-1357-005	COC #:	Project Manager:
	Winnipeg MB R3T 5P4			Project Name:		C#721082-01-01	Janelle Kochan
Tel:	(204) 896-1209 Fax:	Tel:		Site #:			
Email:	payables@kgsgroup.com	Email:	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By:	RED, JWR		

Regulatory Criteria:
- ☐ ATI
- ☐ CCME
- ☒ Other MW0506

Special Instructions:

SAMPLES MUST BE KEPT COOL (< 10ºC) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Routine Water & Diss. Regulated Metals	Regulated Metals (CCME/AT1) - Total	Mercury (Total) by CV	Mercury (Dissolved) by CV	# of Bottles	Comments
1		MW-01-BR	24/06/12	8:15	GW	Y	X	X	X	X	5	
2		MW-02-BR		8:45	GW	Y	X	X	X	X	5	
3		MW-03-OB		9:50	GW	Y	X	X	X	X	5	
4		MW-04-OB		8:30	GW	Y	X	X	X	X	5	
5		MW-04-BR		8:35	GW	Y	X	X	X	X	5	
6		MW-05-BR		8:00	GW	Y	X	X	X	X	5	
7		MW-06-BR		10:25	GW	Y	X	X	X	X	5	
8		MW-07-BR		9:00	GW	Y	X	X	X	X	5	
9		MW-08-BR		9:75	GW	Y	X	X	X	X	5	
10		MW-09-OB	↓	10:00	GW	Y	X	X	X	X	5	

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT: ☒
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests are > 5 days - contact your Project Manager for details

Job Specific Rush TAT (if applies to entire submission) ☐
Date Required:
Rush Confirmation Number: *(call lab for #)*

MCAL-2024-06-1226

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted
Rachel Dyck	24/06/13	11:15	Brooklyn Hiebert	24/06/13	1120	
			Daniel Choi	24/06/14	8:14	

Laboratory Use Only

Time Sensitive	Temperature (ºC) on Receipt	Custody Seal Intact on Cooler?
☐	1.) 8.4/7.3/4.9	☒ Yes ☐ No
	2.) 3.1/2.9/0.9	

MCAL 2.5, 3.1, 3.C
3.1, 2.9, 0.9

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
** ALL SAMPLES ARE HELD FOR 60 DAYS AFTER SAMPLE RECEIPT, FOR SPECIAL REQUESTS CONTACT YOUR PROJECT MANAGER

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#7500 KGS Group	Company Name:		Quotation #:	C31455	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Ed Collins	P.O. #:			721082
Address:	865 Waverly St., 3rd Floor	Address:		Project:	21-1357-005	COC #:	Project Manager:
	Winnipeg MB R3T 5P4			Project Name:		C#721082-02-01	Janelle Kochan
Tel:	(204) 896-1209 Fax:	Tel:		Site #:			
Email:	payables@kgsgroup.com	Email:	Ecollins@kgsgroup.com, rdyck@kgsgroup.com, aruchkall@kgsgroup.com	Sampled By:	RED, JWK		

Regulatory Criteria:
- [ ] ATI
- [ ] CCME
- [x] Other MWQSOG

Special Instructions

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests are > 5 days - contact your Project Manager for details

Job Specific Rush TAT (if applies to entire submission) [ ]
Date Required:
Rush Confirmation Number: *(call lab for #)*

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Routine Water & Diss. Regulated Metals	Regulated Metals (CCME/AT1) - Total	Mercury (Total) by CV	Mercury (Dissolved) by CV	# of Bottles	Comments
1		MW-10-OB	24/06/12	10:15	GW	Y	X	X	X	X	5	
2		MW-11-OB		10:05	GW	Y	X	X	X	X	5	
3		MW-100		AM	GW	Y	X	X	X	X	5	
4		FIELD BLANK		9:15	DI	Y	X	X	X	X	5	
5		TRIP BLANK		—	—	—	X	X	X	X	5	
6												
7												
8												
9												
10												

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Dyck	24/06/13	11:15	BM Brooklyn Hiebert	24/06/13	11:20		[ ]	1.) 8.4 / 7.3 / 4.9	[X] Yes [ ] No
			A Choi	24/06/14	8:14			2.) 3.1 / 2.9 / 0.9	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
** ALL SAMPLES ARE HELD FOR 60 DAYS AFTER SAMPLE RECEIPT, FOR SPECIAL REQUESTS CONTACT YOUR PROJECT MANAGER

White: Bureau Veritas Yellow: Client

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#7500 KGS Group	Company Name:		Quotation #:	C31455	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Ed Collins	P.O. #:			721082
Address:	865 Waverly St., 3rd Floor	Address:		Project:	21-1357-005		
	Winnipeg MB R3T 5P4			Project Name:		COC #:	Project Manager:
Tel:	(204) 896-1209 Fax:	Tel:		Site #:		C#721082-02-01	Janelle Kochan
Email:	payables@kgsgroup.com	Email:	Ecollins@kgsgroup.com, rdyck@kgsgroup.com	Sampled By:	RED, JWL		

Regulatory Criteria:
- [ ] ATI
- [ ] CCME
- [x] Other MWQSOG

Special Instructions

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT:
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests are > 5 days - contact your Project Manager for details
[x]

Job Specific Rush TAT (if applies to entire submission)
Date Required:
Rush Confirmation Number: *(call lab for #)*
[ ]

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Routine Water & Diss. Regulated Metals	Regulated Metals (CCME/AT1) - Total	Mercury (Total) by CV	Mercury (Dissolved) by CV	# of Bottles	Comments
1		MW-10-OB	24/06/12	10:15	GW	Y	X	X	X	X	5	
2		MW-11-OB	"	10:05	GW	Y	X	X	X	X	5	
3		MW-100	"	AM	GW	Y	X	X	X	X	5	
4		FIELD BLANK	"	9:15	DI	Y	X	X	X	X	5	
5		TRIP BLANK	"	—	—	—	X	X	X	X	5	
6												
7												
8												
9												
10												

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Dyck	24/06/13	11:15	BH Brooklyn Hiebert	24/06/13	1120		[ ]	1.) 8.4 / 7.3 / 4.9	[x] Yes [ ] No
			D Chorin	24/06/14	8:14			2.) 3.1 / 2.9 / 0.9	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

** ALL SAMPLES ARE HELD FOR 60 DAYS AFTER SAMPLE RECEIPT, FOR SPECIAL REQUESTS CONTACT YOUR PROJECT MANAGER

White: Bureau Veritas Yellow: Client

Your Project #: 21-1357-005
Your C.O.C. #: C#721083-01-01, C#721083-02-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/10/11
Report #: R3571044
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C480200
Received: 2024/10/04, 14:50

Sample Matrix: Ground Water
Samples Received: 14

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Alkalinity @25C (pp, total), CO3,HCO3,OH (1)	14	N/A	2024/10/08	AB SOP-00005	SM 24 2320 B m
Cadmium - low level CCME - Dissolved (1)	6	N/A	2024/10/10		Auto Calc
Cadmium - low level CCME - Dissolved (1)	8	N/A	2024/10/11		Auto Calc
Cadmium - low level CCME (Total) (1)	14	N/A	2024/10/11		Auto Calc
Chloride/Sulphate by Auto Colourimetry (1)	14	N/A	2024/10/08	AB SOP-00020	SM24-4500-Cl/SO4-E m
Conductivity @25C (1)	14	N/A	2024/10/08	AB SOP-00005	SM 24 2510 B m
Hardness (1)	2	N/A	2024/10/10		Auto Calc
Hardness (1)	12	N/A	2024/10/09		Auto Calc
Mercury (Dissolved) by CV (1, 2)	7	2024/10/10	2024/10/10	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV (1, 2)	5	2024/10/10	2024/10/11	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Dissolved) by CV-Lab Filtered (1)	2	2024/10/10	2024/10/10	AB SOP-00084	BCMOE BCLM Oct2013 m
Mercury (Total) by CV (1)	14	2024/10/10	2024/10/10	AB SOP-00084	BCMOE BCLM Oct2013 m
Elements by ICP - Dissolved (1, 2)	12	N/A	2024/10/08	AB SOP-00042	EPA 6010d R5 m
Elements by ICP-Dissolved-Lab Filtered (1, 2)	2	N/A	2024/10/09	AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	13	2024/10/09	2024/10/10	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICP - Total (1)	1	2024/10/09	2024/10/11	AB SOP-00014 / AB SOP-00042	EPA 6010d R5 m
Elements by ICPMS - Dissolved (1, 2)	8	N/A	2024/10/10	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Dissolved (1, 2)	4	N/A	2024/10/09	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS-Dissolved-Lab Filtered (1, 3)	2	N/A	2024/10/09	AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	7	2024/10/09	2024/10/10	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Elements by ICPMS - Total (1)	7	2024/10/09	2024/10/11	AB SOP-00014 / AB SOP-00043	EPA 6020b R2 m
Ion Balance (1)	2	N/A	2024/10/10		Auto Calc
Ion Balance (1)	12	N/A	2024/10/09		Auto Calc
Sum of cations, anions (1)	2	N/A	2024/10/10		Auto Calc
Sum of cations, anions (1)	12	N/A	2024/10/09		Auto Calc
Nitrate and Nitrite (1)	14	N/A	2024/10/09		Auto Calc
NO2 (N); NO2 (N) + NO3 (N) in Water (1)	11	N/A	2024/10/08	AB SOP-00091	SM 24 4500 NO3m
NO2 (N); NO2 (N) + NO3 (N) in Water (1)	3	N/A	2024/10/09	AB SOP-00091	SM 24 4500 NO3m

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Your C.O.C. #: C#721083-01-01, C#721083-02-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/10/11
Report #: R3571044
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C480200
Received: 2024/10/04, 14:50

Sample Matrix: Ground Water
Samples Received: 14

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Nitrate (as N) (1)	14	2024/10/07	2024/10/09		Auto Calc
pH @25°C (1, 4)	14	N/A	2024/10/08	AB SOP-00005	SM 24 4500-H+B m
Total Dissolved Solids (Calculated) (1)	2	N/A	2024/10/10		Auto Calc
Total Dissolved Solids (Calculated) (1)	12	N/A	2024/10/09		Auto Calc

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) This test was performed by Bureau Veritas Calgary, 4000 - 19 St. , Calgary, AB, T2E 6P8
(2) Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(3) Samples were filtered and preserved at the lab. Values may not reflect concentrations at the time of sampling. Dissolved > Total Imbalance: When applicable, Dissolved and Total results were reviewed and data quality meets acceptable levels unless otherwise noted.
(4) The CCME method requires pH to be analysed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME holding time. Bureau Veritas endeavours to analyze samples as soon as possible after receipt.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Your Project #: 21-1357-005
Your C.O.C. #: C#721083-01-01, C#721083-02-01

Attention: Ed Collins

KGS Group
865 Waverly St., 3rd Floor
Winnipeg, MB
Canada R3T 5P4

Report Date: 2024/10/11
Report #: R3571044
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BUREAU VERITAS JOB #: C480200
Received: 2024/10/04, 14:50

Encryption Key

Please direct all questions regarding this Certificate of Analysis to:
Janelle Kochan, B.Sc., Key Account Specialist
Email: Janelle.KOCHAN@bureauveritas.com
Phone# (204)223-7173
==========
This report has been generated and distributed using a secure automated process.
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG374		CXG375		CXG376		
Sampling Date		2024/10/03 10:00		2024/10/03 11:25		2024/10/03 11:10		
COC Number		C#721083-01-01		C#721083-01-01		C#721083-01-01		
	UNITS	MW-03-BR	QC Batch	MW-04-OB	QC Batch	MW-04-BR	RDL	QC Batch
Calculated Parameters								
Anion Sum	meq/L	9.6	B554494	14	B554494	10	N/A	B554494
Cation Sum	meq/L	10	B554494	15	B554494	11	N/A	B554494
Hardness (CaCO3)	mg/L	450	B554432	670	B554432	210	0.50	B554432
Ion Balance (% Difference)	%	2.2	B554492	3.4	B554492	2.7	N/A	B554492
Nitrate (N)	mg/L	<0.010	B554219	<0.010	B554219	0.54	0.010	B554219
Nitrate (NO3)	mg/L	<0.044	B554217	<0.044	B554217	2.4	0.044	B554217
Nitrite (NO2)	mg/L	<0.033	B554217	<0.033	B554217	0.041	0.033	B554217
Calculated Total Dissolved Solids	mg/L	580	B554515	800	B554515	630	10	B554515
Elements								
Dissolved Cadmium (Cd)	ug/L	<0.020	B554413	<0.020	B554413	<0.020	0.020	B554413
Misc. Inorganics								
Conductivity	uS/cm	840	B556118	1200	B556742	1000	2.0	B556742
pH	pH	7.12	B556115	7.86	B556741	7.97	N/A	B556741
Anions								
Alkalinity (PP as CaCO3)	mg/L	<1.0	B556112	<1.0	B556739	<1.0	1.0	B556739
Alkalinity (Total as CaCO3)	mg/L	210	B556112	370	B556739	210	1.0	B556739
Bicarbonate (HCO3)	mg/L	260	B556112	450	B556739	250	1.0	B556739
Carbonate (CO3)	mg/L	<1.0	B556112	<1.0	B556739	<1.0	1.0	B556739
Hydroxide (OH)	mg/L	<1.0	B556112	<1.0	B556739	<1.0	1.0	B556739
Chloride (Cl)	mg/L	2.2	B556086	14	B556086	32	1.0	B556089
Sulphate (SO4)	mg/L	260	B556086	300	B556086	250	5.0	B556089
Nutrients								
Nitrite (N)	mg/L	<0.010	B556628	<0.010	B556628	0.012	0.010	B556624
Nitrate plus Nitrite (N)	mg/L	<0.010	B556628	<0.010	B556628	0.55	0.010	B556624
Elements								
Dissolved Aluminum (Al)	mg/L	0.037	B556587	<0.0030	B556587	0.0039	0.0030	B556587
Dissolved Antimony (Sb)	mg/L	<0.00060	B556587	<0.00060	B556587	<0.00060	0.00060	B556587
Dissolved Arsenic (As)	mg/L	0.0021	B556587	<0.00020	B556587	0.0023	0.00020	B556587
Dissolved Barium (Ba)	mg/L	0.093	B556496	0.11	B556496	0.046	0.010	B556496
Dissolved Beryllium (Be)	mg/L	<0.0010	B556587	<0.0010	B556587	<0.0010	0.0010	B556587
Dissolved Boron (B)	mg/L	0.068	B556496	0.14	B556496	0.46	0.020	B556496

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG374		CXG375		CXG376		
Sampling Date		2024/10/03 10:00		2024/10/03 11:25		2024/10/03 11:10		
COC Number		C#721083-01-01		C#721083-01-01		C#721083-01-01		
	UNITS	**MW-03-BR**	**QC Batch**	**MW-04-OB**	**QC Batch**	**MW-04-BR**	**RDL**	**QC Batch**
Dissolved Calcium (Ca)	mg/L	140	B556496	170	B556496	41	0.30	B556496
Dissolved Chromium (Cr)	mg/L	<0.0010	B556587	<0.0010	B556587	<0.0010	0.0010	B556587
Dissolved Cobalt (Co)	mg/L	0.00084	B556587	<0.00030	B556587	0.00033	0.00030	B556587
Dissolved Copper (Cu)	mg/L	0.0023	B556587	<0.0010	B556587	0.0019	0.0010	B556587
Dissolved Iron (Fe)	mg/L	3.9	B556496	0.41	B556496	<0.060	0.060	B556496
Dissolved Lead (Pb)	mg/L	0.00021	B556587	0.00062	B556587	<0.00020	0.00020	B556587
Dissolved Lithium (Li)	mg/L	0.037	B556496	0.043	B556496	0.13	0.020	B556496
Dissolved Magnesium (Mg)	mg/L	27	B556496	59	B556496	27	0.20	B556496
Dissolved Manganese (Mn)	mg/L	1.0	B556496	0.51	B556496	0.10	0.0040	B556496
Dissolved Molybdenum (Mo)	mg/L	0.00030	B556587	<0.00020	B556587	0.0016	0.00020	B556587
Dissolved Nickel (Ni)	mg/L	0.0011	B556587	<0.00050	B556587	0.00096	0.00050	B556587
Dissolved Phosphorus (P)	mg/L	<0.10	B556496	<0.10	B556496	<0.10	0.10	B556496
Dissolved Potassium (K)	mg/L	8.4	B556496	5.2	B556496	9.3	0.30	B556496
Dissolved Selenium (Se)	mg/L	<0.00020	B556587	<0.00020	B556587	<0.00020	0.00020	B556587
Dissolved Silicon (Si)	mg/L	9.1	B556496	8.7	B556496	6.0	0.50	B556496
Dissolved Silver (Ag)	mg/L	<0.00010	B556587	<0.00010	B556587	<0.00010	0.00010	B556587
Dissolved Sodium (Na)	mg/L	14	B556496	31	B556496	150	0.50	B556496
Dissolved Strontium (Sr)	mg/L	0.39	B556496	0.82	B556496	0.70	0.020	B556496
Dissolved Sulphur (S)	mg/L	87	B556496	100	B556496	87	0.20	B556496
Dissolved Thallium (Tl)	mg/L	<0.00020	B556587	<0.00020	B556587	<0.00020	0.00020	B556587
Dissolved Tin (Sn)	mg/L	<0.0010	B556587	<0.0010	B556587	<0.0010	0.0010	B556587
Dissolved Titanium (Ti)	mg/L	0.0030	B556587	<0.0010	B556587	<0.0010	0.0010	B556587
Dissolved Uranium (U)	mg/L	0.0013	B556587	0.0017	B556587	0.0064	0.00010	B556587
Dissolved Vanadium (V)	mg/L	<0.0010	B556587	<0.0010	B556587	<0.0010	0.0010	B556587
Dissolved Zinc (Zn)	mg/L	0.37	B556587	<0.0030	B556587	<0.0030	0.0030	B556587
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG377			CXG378		CXG379		
Sampling Date		2024/10/03 08:30			2024/10/03 10:15		2024/10/03 09:30		
COC Number		C#721083-01-01			C#721083-01-01		C#721083-01-01		
	UNITS	MW-05-BR	RDL	QC Batch	MW-06-BR	QC Batch	MW-07-BR	RDL	QC Batch
Calculated Parameters									
Anion Sum	meq/L	3.7	N/A	B554494	6.5	B554494	7.1	N/A	B554494
Cation Sum	meq/L	3.4	N/A	B554494	5.7	B554494	7.0	N/A	B554494
Hardness (CaCO3)	mg/L	160	0.50	B554432	260	B554432	330	0.50	B554587
Ion Balance (% Difference)	%	3.8	N/A	B554492	6.2	B554492	0.42	N/A	B554492
Nitrate (N)	mg/L	0.026	0.010	B554219	<0.010	B554219	0.42	0.010	B554219
Nitrate (NO3)	mg/L	0.12	0.044	B554217	<0.044	B554217	1.9	0.044	B554217
Nitrite (NO2)	mg/L	<0.033	0.033	B554217	<0.033	B554217	<0.033	0.033	B554217
Calculated Total Dissolved Solids	mg/L	190	10	B554515	410	B554515	470	10	B554515
Elements									
Dissolved Cadmium (Cd)	ug/L	0.051	0.020	B554413	99	B554413	63	0.020	B554413
Misc. Inorganics									
Conductivity	uS/cm	320	2.0	B556118	650	B556118	710	2.0	B556118
pH	pH	6.78	N/A	B556115	5.94	B556115	5.42	N/A	B556115
Anions									
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556112	<1.0	B556112	<1.0	1.0	B556112
Alkalinity (Total as CaCO3)	mg/L	150	1.0	B556112	22	B556112	7.7	1.0	B556112
Bicarbonate (HCO3)	mg/L	180	1.0	B556112	27	B556112	9.4	1.0	B556112
Carbonate (CO3)	mg/L	<1.0	1.0	B556112	<1.0	B556112	<1.0	1.0	B556112
Hydroxide (OH)	mg/L	<1.0	1.0	B556112	<1.0	B556112	<1.0	1.0	B556112
Chloride (Cl)	mg/L	<1.0	1.0	B556201	<1.0	B556086	<1.0	1.0	B556081
Sulphate (SO4)	mg/L	37	1.0	B556201	290	B556086	330	5.0	B556081
Nutrients									
Nitrite (N)	mg/L	<0.010	0.010	B556628	<0.010	B556628	<0.010	0.010	B556628
Nitrate plus Nitrite (N)	mg/L	0.026	0.010	B556628	<0.010	B556628	0.42	0.010	B556628
Elements									
Dissolved Aluminum (Al)	mg/L	0.026	0.0030	B556587	0.11	B556587	1.7	0.0030	B556587
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B556587	<0.00060	B556587	<0.00060	0.00060	B556587
Dissolved Arsenic (As)	mg/L	<0.00020	0.00020	B556587	0.00023	B556587	<0.00020	0.00020	B556587
Dissolved Barium (Ba)	mg/L	0.025	0.010	B556508	0.020	B556508	0.022	0.010	B556496
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B556587	<0.0010	B556587	<0.0010	0.0010	B556587
Dissolved Boron (B)	mg/L	0.021	0.020	B556508	0.038	B556508	0.021	0.020	B556496

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG377			CXG378		CXG379		
Sampling Date		2024/10/03 08:30			2024/10/03 10:15		2024/10/03 09:30		
COC Number		C#721083-01-01			C#721083-01-01		C#721083-01-01		
	UNITS	**MW-05-BR**	**RDL**	**QC Batch**	**MW-06-BR**	**QC Batch**	**MW-07-BR**	**RDL**	**QC Batch**
Dissolved Calcium (Ca)	mg/L	54	0.30	B556508	74	B556508	100	0.30	B556496
Dissolved Chromium (Cr)	mg/L	0.0010	0.0010	B556587	<0.0010	B556587	<0.0010	0.0010	B556587
Dissolved Cobalt (Co)	mg/L	0.0020	0.00030	B556587	0.041	B556587	0.025	0.00030	B556587
Dissolved Copper (Cu)	mg/L	0.0036	0.0010	B556587	0.53	B556587	4.1	0.0010	B556587
Dissolved Iron (Fe)	mg/L	<0.060	0.060	B556508	4.0	B556508	<0.060	0.060	B556496
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B556587	0.0055	B556587	0.00058	0.00020	B556587
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B556508	0.046	B556508	0.025	0.020	B556496
Dissolved Magnesium (Mg)	mg/L	6.4	0.20	B556508	18	B556508	18	0.20	B556496
Dissolved Manganese (Mn)	mg/L	0.20	0.0040	B556508	1.4	B556508	0.45	0.0040	B561687
Dissolved Molybdenum (Mo)	mg/L	0.00022	0.00020	B556587	<0.00020	B556587	<0.00020	0.00020	B556587
Dissolved Nickel (Ni)	mg/L	0.0019	0.00050	B556587	0.015	B556587	0.020	0.00050	B556587
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B556508	<0.10	B556508	<0.10	0.10	B556496
Dissolved Potassium (K)	mg/L	4.1	0.30	B556508	7.8	B556508	12	0.30	B556496
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B556587	<0.00020	B556587	0.0012	0.00020	B556587
Dissolved Silicon (Si)	mg/L	5.6	0.50	B556508	7.7	B556508	11	0.50	B556496
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B556587	<0.00010	B556587	<0.00010	0.00010	B556587
Dissolved Sodium (Na)	mg/L	2.0	0.50	B556508	4.2	B556508	3.4	0.50	B556496
Dissolved Strontium (Sr)	mg/L	0.058	0.020	B556508	0.13	B556508	0.11	0.020	B556496
Dissolved Sulphur (S)	mg/L	12	0.20	B556508	92	B556508	110	0.20	B556496
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B556587	<0.00020	B556587	<0.00020	0.00020	B556587
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B556587	<0.0010	B556587	<0.0010	0.0010	B556587
Dissolved Titanium (Ti)	mg/L	0.0012	0.0010	B556587	<0.0010	B556587	<0.0010	0.0010	B556587
Dissolved Uranium (U)	mg/L	0.0025	0.00010	B556587	0.0020	B556587	0.0050	0.00010	B556587
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B556587	<0.0010	B556587	<0.0010	0.0010	B556587
Dissolved Zinc (Zn)	mg/L	0.010	0.0030	B556587	22	B556587	13	0.030	B556587
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

Bureau Veritas Job #: C480200
Report Date: 2024/10/11

KGS Group
Client Project #: 21-1357-005
Sampler Initials: RCP

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG379			CXG380			CXG381		
Sampling Date		2024/10/03 09:30			2024/10/03 09:45			2024/10/03 10:50		
COC Number		C#721083-01-01			C#721083-01-01			C#721083-01-01		
	UNITS	MW-07-BR Lab-Dup	RDL	QC Batch	MW-08-BR	RDL	QC Batch	MW-09-OB	RDL	QC Batch
Calculated Parameters										
Anion Sum	meq/L				4.4	N/A	B554494	9.7	N/A	B554494
Cation Sum	meq/L				4.6	N/A	B554494	10	N/A	B554494
Hardness (CaCO3)	mg/L				210	0.50	B554587	450	0.50	B554587
Ion Balance (% Difference)	%				2.3	N/A	B554492	1.9	N/A	B554492
Nitrate (N)	mg/L				0.22	0.010	B554219	<0.050	0.050	B554219
Nitrate (NO3)	mg/L				0.99	0.044	B554217	<0.22	0.22	B554217
Nitrite (NO2)	mg/L				<0.033	0.033	B554217	<0.16	0.16	B554217
Calculated Total Dissolved Solids	mg/L				270	10	B554515	620	10	B554515
Elements										
Dissolved Cadmium (Cd)	ug/L				1.6	0.020	B554413	0.47	0.020	B554413
Misc. Inorganics										
Conductivity	uS/cm				440	2.0	B556742	890	2.0	B556742
pH	pH				6.73	N/A	B556741	6.47	N/A	B556741
Anions										
Alkalinity (PP as CaCO3)	mg/L				<1.0	1.0	B556739	<1.0	1.0	B556739
Alkalinity (Total as CaCO3)	mg/L				71	1.0	B556739	93	1.0	B556739
Bicarbonate (HCO3)	mg/L				86	1.0	B556739	110	1.0	B556739
Carbonate (CO3)	mg/L				<1.0	1.0	B556739	<1.0	1.0	B556739
Hydroxide (OH)	mg/L				<1.0	1.0	B556739	<1.0	1.0	B556739
Chloride (Cl)	mg/L	<1.0	1.0	B556081	<1.0	1.0	B556086	1.1	1.0	B556086
Sulphate (SO4)	mg/L	330	5.0	B556081	140	5.0	B556086	370	5.0	B556086
Nutrients										
Nitrite (N)	mg/L				<0.010	0.010	B556624	<0.050 (1)	0.050	B556628
Nitrate plus Nitrite (N)	mg/L				0.22	0.010	B556624	<0.050 (1)	0.050	B556628
Elements										
Dissolved Aluminum (Al)	mg/L				0.015	0.0030	B556587	<0.0030	0.0030	B556564
Dissolved Antimony (Sb)	mg/L				<0.00060	0.00060	B556587	<0.00060	0.00060	B556564
Dissolved Arsenic (As)	mg/L				<0.00020	0.00020	B556587	0.0013	0.00020	B556564
Dissolved Barium (Ba)	mg/L				0.018	0.010	B556496	0.018	0.010	B556508

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Detection limits raised due to matrix interference.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG379			CXG380			CXG381		
Sampling Date		2024/10/03 09:30			2024/10/03 09:45			2024/10/03 10:50		
COC Number		C#721083-01-01			C#721083-01-01			C#721083-01-01		
	UNITS	MW-07-BR Lab-Dup	RDL	QC Batch	MW-08-BR	RDL	QC Batch	MW-09-OB	RDL	QC Batch
Dissolved Beryllium (Be)	mg/L				<0.0010	0.0010	B556587	<0.0010	0.0010	B556564
Dissolved Boron (B)	mg/L				0.032	0.020	B556496	0.058	0.020	B556508
Dissolved Calcium (Ca)	mg/L				63	0.30	B556496	130	0.30	B556508
Dissolved Chromium (Cr)	mg/L				<0.0010	0.0010	B556587	<0.0010	0.0010	B556564
Dissolved Cobalt (Co)	mg/L				0.016	0.00030	B556587	0.036	0.00030	B556564
Dissolved Copper (Cu)	mg/L				0.049	0.0010	B556587	0.0018	0.0010	B556564
Dissolved Iron (Fe)	mg/L				<0.060	0.060	B556496	15	0.060	B556508
Dissolved Lead (Pb)	mg/L				<0.00020	0.00020	B556587	<0.00020	0.00020	B556564
Dissolved Lithium (Li)	mg/L				0.030	0.020	B556496	0.056	0.020	B556508
Dissolved Magnesium (Mg)	mg/L				13	0.20	B556496	31	0.20	B556508
Dissolved Manganese (Mn)	mg/L				0.57	0.0040	B561687	2.1	0.0040	B556508
Dissolved Molybdenum (Mo)	mg/L				0.00029	0.00020	B556587	<0.00020	0.00020	B556564
Dissolved Nickel (Ni)	mg/L				0.012	0.00050	B556587	0.013	0.00050	B556564
Dissolved Phosphorus (P)	mg/L				<0.10	0.10	B556496	<0.10	0.10	B556508
Dissolved Potassium (K)	mg/L				5.7	0.30	B556496	7.1	0.30	B556508
Dissolved Selenium (Se)	mg/L				0.00042	0.00020	B556587	<0.00020	0.00020	B556564
Dissolved Silicon (Si)	mg/L				8.0	0.50	B556496	9.3	0.50	B556508
Dissolved Silver (Ag)	mg/L				<0.00010	0.00010	B556587	<0.00010	0.00010	B556564
Dissolved Sodium (Na)	mg/L				3.9	0.50	B556496	6.7	0.50	B556508
Dissolved Strontium (Sr)	mg/L				0.11	0.020	B556496	0.24	0.020	B556508
Dissolved Sulphur (S)	mg/L				46	0.20	B556496	130	0.20	B556508
Dissolved Thallium (Tl)	mg/L				<0.00020	0.00020	B556587	<0.00020	0.00020	B556564
Dissolved Tin (Sn)	mg/L				<0.0010	0.0010	B556587	<0.0010	0.0010	B556564
Dissolved Titanium (Ti)	mg/L				<0.0010	0.0010	B556587	<0.0010	0.0010	B556564
Dissolved Uranium (U)	mg/L				0.0016	0.00010	B556587	<0.00010	0.00010	B556564
Dissolved Vanadium (V)	mg/L				<0.0010	0.0010	B556587	<0.0010	0.0010	B556564
Dissolved Zinc (Zn)	mg/L				0.78	0.0030	B556587	19	0.030	B556564

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG381			CXG382		
Sampling Date		2024/10/03 10:50			2024/10/03 10:30		
COC Number		C#721083-01-01			C#721083-02-01		
	UNITS	MW-09-OB Lab-Dup	RDL	QC Batch	MW-10-OB	RDL	QC Batch
Calculated Parameters							
Anion Sum	meq/L				8.8	N/A	B554494
Cation Sum	meq/L				9.3	N/A	B554494
Hardness (CaCO3)	mg/L				400	0.50	B554587
Ion Balance (% Difference)	%				3.0	N/A	B554492
Nitrate (N)	mg/L				<0.050	0.050	B554219
Nitrate (NO3)	mg/L				<0.22	0.22	B554217
Nitrite (NO2)	mg/L				<0.16	0.16	B554217
Calculated Total Dissolved Solids	mg/L				570	10	B554515
Elements							
Dissolved Cadmium (Cd)	ug/L				2.3	0.020	B554413
Misc. Inorganics							
Conductivity	uS/cm	890	2.0	B556742	850	2.0	B556118
pH	pH	6.51	N/A	B556741	6.20	N/A	B556115
Anions							
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556739	<1.0	1.0	B556112
Alkalinity (Total as CaCO3)	mg/L	100	1.0	B556739	70	1.0	B556112
Bicarbonate (HCO3)	mg/L	120	1.0	B556739	85	1.0	B556112
Carbonate (CO3)	mg/L	<1.0	1.0	B556739	<1.0	1.0	B556112
Hydroxide (OH)	mg/L	<1.0	1.0	B556739	<1.0	1.0	B556112
Chloride (Cl)	mg/L				1.0	1.0	B556086
Sulphate (SO4)	mg/L				350	5.0	B556086
Nutrients							
Nitrite (N)	mg/L				<0.050 (1)	0.050	B556628
Nitrate plus Nitrite (N)	mg/L				<0.050 (1)	0.050	B556628
Elements							
Dissolved Aluminum (Al)	mg/L				<0.0030	0.0030	B556564
Dissolved Antimony (Sb)	mg/L				<0.00060	0.00060	B556564
Dissolved Arsenic (As)	mg/L				0.00030	0.00020	B556564
Dissolved Barium (Ba)	mg/L	0.015	0.010	B556508	0.018	0.010	B556496

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable
(1) Detection limits raised due to matrix interference.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG381			CXG382		
Sampling Date		2024/10/03 10:50			2024/10/03 10:30		
COC Number		C#721083-01-01			C#721083-02-01		
	UNITS	MW-09-OB Lab-Dup	RDL	QC Batch	MW-10-OB	RDL	QC Batch
Dissolved Beryllium (Be)	mg/L				<0.0010	0.0010	B556564
Dissolved Boron (B)	mg/L	0.055	0.020	B556508	0.062	0.020	B556496
Dissolved Calcium (Ca)	mg/L	130	0.30	B556508	120	0.30	B556496
Dissolved Chromium (Cr)	mg/L				<0.0010	0.0010	B556564
Dissolved Cobalt (Co)	mg/L				0.041	0.00030	B556564
Dissolved Copper (Cu)	mg/L				0.0011	0.0010	B556564
Dissolved Iron (Fe)	mg/L	15	0.060	B556508	18	0.060	B556496
Dissolved Lead (Pb)	mg/L				<0.00020	0.00020	B556564
Dissolved Lithium (Li)	mg/L	0.058	0.020	B556508	0.056	0.020	B556496
Dissolved Magnesium (Mg)	mg/L	31	0.20	B556508	26	0.20	B556496
Dissolved Manganese (Mn)	mg/L	2.1	0.0040	B556508	2.1	0.0040	B556496
Dissolved Molybdenum (Mo)	mg/L				0.00039	0.00020	B556564
Dissolved Nickel (Ni)	mg/L				0.019	0.00050	B556564
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B556508	<0.10	0.10	B556496
Dissolved Potassium (K)	mg/L	7.1	0.30	B556508	7.1	0.30	B556496
Dissolved Selenium (Se)	mg/L				<0.00020	0.00020	B556564
Dissolved Silicon (Si)	mg/L	9.3	0.50	B556508	9.0	0.50	B556496
Dissolved Silver (Ag)	mg/L				<0.00010	0.00010	B556564
Dissolved Sodium (Na)	mg/L	6.7	0.50	B556508	8.5	0.50	B556496
Dissolved Strontium (Sr)	mg/L	0.24	0.020	B556508	0.21	0.020	B556496
Dissolved Sulphur (S)	mg/L	130	0.20	B556508	130	0.20	B556496
Dissolved Thallium (Tl)	mg/L				<0.00020	0.00020	B556564
Dissolved Tin (Sn)	mg/L				<0.0010	0.0010	B556564
Dissolved Titanium (Ti)	mg/L				<0.0010	0.0010	B556564
Dissolved Uranium (U)	mg/L				0.00031	0.00010	B556564
Dissolved Vanadium (V)	mg/L				<0.0010	0.0010	B556564
Dissolved Zinc (Zn)	mg/L				18	0.030	B556564

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG383			CXG384		
Sampling Date		2024/10/03 10:40			2024/10/03		
COC Number		C#721083-02-01			C#721083-02-01		
	UNITS	MW-11-OB	RDL	QC Batch	MW-101	RDL	QC Batch
Calculated Parameters							
Anion Sum	meq/L	11	N/A	B554494	7.0	N/A	B554494
Cation Sum	meq/L	12	N/A	B554494	7.1	N/A	B554494
Hardness (CaCO3)	mg/L	560	0.50	B554587	330	0.50	B554587
Ion Balance (% Difference)	%	3.6	N/A	B554492	0.71	N/A	B554492
Nitrate (N)	mg/L	<0.010	0.010	B554219	0.44	0.010	B554219
Nitrate (NO3)	mg/L	<0.044	0.044	B554217	2.0	0.044	B554217
Nitrite (NO2)	mg/L	<0.033	0.033	B554217	<0.033	0.033	B554217
Calculated Total Dissolved Solids	mg/L	690	10	B554515	470	10	B554515
Elements							
Dissolved Cadmium (Cd)	ug/L	0.029	0.020	B554413	62	0.020	B554413
Misc. Inorganics							
Conductivity	uS/cm	1000	2.0	B556742	720	2.0	B556118
pH	pH	7.25	N/A	B556741	5.57	N/A	B556115
Anions							
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556739	<1.0	1.0	B556112
Alkalinity (Total as CaCO3)	mg/L	170	1.0	B556739	9.7	1.0	B556112
Bicarbonate (HCO3)	mg/L	200	1.0	B556739	12	1.0	B556112
Carbonate (CO3)	mg/L	<1.0	1.0	B556739	<1.0	1.0	B556112
Hydroxide (OH)	mg/L	<1.0	1.0	B556739	<1.0	1.0	B556112
Chloride (Cl)	mg/L	1.3	1.0	B556089	<1.0	1.0	B556089
Sulphate (SO4)	mg/L	370	5.0	B556089	320	5.0	B556089
Nutrients							
Nitrite (N)	mg/L	<0.010	0.010	B556628	<0.010	0.010	B556628
Nitrate plus Nitrite (N)	mg/L	<0.010	0.010	B556628	0.44	0.010	B556628
Elements							
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	B556564	1.6	0.0030	B556564
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B556564	<0.00060	0.00060	B556564
Dissolved Arsenic (As)	mg/L	0.0012	0.00020	B556564	<0.00020	0.00020	B556564
Dissolved Barium (Ba)	mg/L	0.079	0.010	B556496	0.021	0.010	B556496
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B556564	<0.0010	0.0010	B556564
Dissolved Boron (B)	mg/L	0.061	0.020	B556496	<0.020	0.020	B556496

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG383			CXG384		
Sampling Date		2024/10/03 10:40			2024/10/03		
COC Number		C#721083-02-01			C#721083-02-01		
	UNITS	**MW-11-OB**	**RDL**	**QC Batch**	**MW-101**	**RDL**	**QC Batch**
Dissolved Calcium (Ca)	mg/L	160	0.30	B556496	100	0.30	B556496
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B556564	<0.0010	0.0010	B556564
Dissolved Cobalt (Co)	mg/L	0.0040	0.00030	B556564	0.023	0.00030	B556564
Dissolved Copper (Cu)	mg/L	0.0019	0.0010	B556564	3.8	0.0010	B556564
Dissolved Iron (Fe)	mg/L	1.8	0.060	B556496	<0.060	0.060	B556496
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B556564	0.00041	0.00020	B556564
Dissolved Lithium (Li)	mg/L	0.048	0.020	B556496	0.026	0.020	B556496
Dissolved Magnesium (Mg)	mg/L	38	0.20	B556496	18	0.20	B556496
Dissolved Manganese (Mn)	mg/L	1.8	0.0040	B556496	0.44	0.0040	B556496
Dissolved Molybdenum (Mo)	mg/L	0.00026	0.00020	B556564	<0.00020	0.00020	B556564
Dissolved Nickel (Ni)	mg/L	0.0015	0.00050	B556564	0.018	0.00050	B556564
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B556496	<0.10	0.10	B556496
Dissolved Potassium (K)	mg/L	6.0	0.30	B556496	12	0.30	B556496
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B556564	0.0012	0.00020	B556564
Dissolved Silicon (Si)	mg/L	9.1	0.50	B556496	11	0.50	B556496
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B556564	<0.00010	0.00010	B556564
Dissolved Sodium (Na)	mg/L	9.5	0.50	B556496	3.4	0.50	B556496
Dissolved Strontium (Sr)	mg/L	0.55	0.020	B556496	0.11	0.020	B556496
Dissolved Sulphur (S)	mg/L	130	0.20	B556496	110	0.20	B556496
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B556564	<0.00020	0.00020	B556564
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B556564	<0.0010	0.0010	B556564
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B556564	<0.0010	0.0010	B556564
Dissolved Uranium (U)	mg/L	0.00018	0.00010	B556564	0.0046	0.00010	B556564
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B556564	<0.0010	0.0010	B556564
Dissolved Zinc (Zn)	mg/L	1.2	0.0030	B556564	12	0.030	B556564
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG385			CXG385		
Sampling Date		2024/10/03			2024/10/03		
COC Number		C#721083-02-01			C#721083-02-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Calculated Parameters							
Anion Sum	meq/L	0.0000	N/A	B554494			
Cation Sum	meq/L	0.0070	N/A	B554494			
Hardness (CaCO3)	mg/L	<0.50	0.50	B554587			
Ion Balance (% Difference)	%	NC	N/A	B554492			
Nitrate (N)	mg/L	<0.010	0.010	B554219			
Nitrate (NO3)	mg/L	<0.044	0.044	B554217			
Nitrite (NO2)	mg/L	<0.033	0.033	B554217			
Calculated Total Dissolved Solids	mg/L	<10	10	B554515			
Elements							
Dissolved Cadmium (Cd)	ug/L	<0.020	0.020	B554413			
Misc. Inorganics							
Conductivity	uS/cm	<2.0	2.0	B556118			
pH	pH	5.13	N/A	B556115			
Anions							
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556112			
Alkalinity (Total as CaCO3)	mg/L	<1.0	1.0	B556112			
Bicarbonate (HCO3)	mg/L	<1.0	1.0	B556112			
Carbonate (CO3)	mg/L	<1.0	1.0	B556112			
Hydroxide (OH)	mg/L	<1.0	1.0	B556112			
Chloride (Cl)	mg/L	<1.0	1.0	B556089			
Sulphate (SO4)	mg/L	<1.0	1.0	B556089			
Nutrients							
Nitrite (N)	mg/L	<0.010	0.010	B557482	<0.010	0.010	B557482
Nitrate plus Nitrite (N)	mg/L	<0.010	0.010	B557482	<0.010	0.010	B557482
Elements							
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	B556587			
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B556587			
Dissolved Arsenic (As)	mg/L	<0.00020	0.00020	B556587			
Dissolved Barium (Ba)	mg/L	<0.010	0.010	B556508			
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B556587			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE WATER & DISS. REGULATED METALS (GROUND WATER)

Bureau Veritas ID		CXG385			CXG385		
Sampling Date		2024/10/03			2024/10/03		
COC Number		C#721083-02-01			C#721083-02-01		
	UNITS	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Dissolved Boron (B)	mg/L	<0.020	0.020	B556508			
Dissolved Calcium (Ca)	mg/L	<0.30	0.30	B556508			
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B556587			
Dissolved Cobalt (Co)	mg/L	<0.00030	0.00030	B556587			
Dissolved Copper (Cu)	mg/L	<0.0010	0.0010	B556587			
Dissolved Iron (Fe)	mg/L	<0.060	0.060	B556508			
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B556587			
Dissolved Lithium (Li)	mg/L	<0.020	0.020	B556508			
Dissolved Magnesium (Mg)	mg/L	<0.20	0.20	B556508			
Dissolved Manganese (Mn)	mg/L	<0.0040	0.0040	B556508			
Dissolved Molybdenum (Mo)	mg/L	<0.00020	0.00020	B556587			
Dissolved Nickel (Ni)	mg/L	<0.00050	0.00050	B556587			
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B556508			
Dissolved Potassium (K)	mg/L	<0.30	0.30	B556508			
Dissolved Selenium (Se)	mg/L	<0.00020	0.00020	B556587			
Dissolved Silicon (Si)	mg/L	<0.50	0.50	B556508			
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B556587			
Dissolved Sodium (Na)	mg/L	<0.50	0.50	B556508			
Dissolved Strontium (Sr)	mg/L	<0.020	0.020	B556508			
Dissolved Sulphur (S)	mg/L	<0.20	0.20	B556508			
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B556587			
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B556587			
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B556587			
Dissolved Uranium (U)	mg/L	<0.00010	0.00010	B556587			
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B556587			
Dissolved Zinc (Zn)	mg/L	<0.0030	0.0030	B556587			

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE + DISS. REG. METALS – LAB FILT (GROUND WATER)

Bureau Veritas ID		CXG372			CXG373		
Sampling Date		2024/10/03 09:00			2024/10/03 09:10		
COC Number		C#721083-01-01			C#721083-01-01		
	UNITS	MW-01-BR	RDL	QC Batch	MW-02-BR	RDL	QC Batch
Calculated Parameters							
Anion Sum	meq/L	28	N/A	B554494	6.8	N/A	B554494
Cation Sum	meq/L	29	N/A	B554494	6.9	N/A	B554494
Hardness (CaCO3)	mg/L	1300	0.50	B554587	120	0.50	B554587
Ion Balance (% Difference)	%	0.97	N/A	B554492	0.40	N/A	B554492
Nitrate (N)	mg/L	0.65	0.010	B554219	<0.010	0.010	B554219
Nitrate (NO3)	mg/L	2.9	0.044	B554594	<0.044	0.044	B554217
Nitrite (NO2)	mg/L	0.067	0.033	B554594	<0.033	0.033	B554217
Calculated Total Dissolved Solids	mg/L	1700	25	B554515	390	10	B554515
Elements							
Dissolved Cadmium (Cd)	ug/L	0.060	0.020	B554413	<0.020	0.020	B554413
Misc. Inorganics							
Conductivity	uS/cm	2200	2.0	B556118	630	2.0	B556118
pH	pH	7.81	N/A	B556115	8.13	N/A	B556115
Anions							
Alkalinity (PP as CaCO3)	mg/L	<1.0	1.0	B556112	<1.0	1.0	B556112
Alkalinity (Total as CaCO3)	mg/L	360	1.0	B556112	200	1.0	B556112
Bicarbonate (HCO3)	mg/L	440	1.0	B556112	250	1.0	B556112
Carbonate (CO3)	mg/L	<1.0	1.0	B556112	<1.0	1.0	B556112
Hydroxide (OH)	mg/L	<1.0	1.0	B556112	<1.0	1.0	B556112
Chloride (Cl)	mg/L	64	1.0	B556089	26	1.0	B556089
Sulphate (SO4)	mg/L	920	25	B556089	96	1.0	B556089
Nutrients							
Nitrite (N)	mg/L	0.020	0.010	B556628	<0.010	0.010	B556628
Nitrate plus Nitrite (N)	mg/L	0.67	0.010	B556628	<0.010	0.010	B556628
Lab Filtered Elements							
Dissolved Aluminum (Al)	mg/L	<0.0030	0.0030	B556614	0.047	0.0030	B556614
Dissolved Antimony (Sb)	mg/L	<0.00060	0.00060	B556614	<0.00060	0.00060	B556614
Dissolved Arsenic (As)	mg/L	<0.00020	0.00020	B556614	0.00069	0.00020	B556614
Dissolved Barium (Ba)	mg/L	0.056	0.010	B557916	0.029	0.010	B557916
Dissolved Beryllium (Be)	mg/L	<0.0010	0.0010	B556614	<0.0010	0.0010	B556614
Dissolved Boron (B)	mg/L	0.19	0.020	B557916	0.52	0.020	B557916

RDL = Reportable Detection Limit
N/A = Not Applicable

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

ROUTINE + DISS. REG. METALS – LAB FILT (GROUND WATER)

Bureau Veritas ID		CXG372			CXG373		
Sampling Date		2024/10/03 09:00			2024/10/03 09:10		
COC Number		C#721083-01-01			C#721083-01-01		
	UNITS	**MW-01-BR**	**RDL**	**QC Batch**	**MW-02-BR**	**RDL**	**QC Batch**
Dissolved Calcium (Ca)	mg/L	280	0.30	B557916	24	0.30	B557916
Dissolved Chromium (Cr)	mg/L	<0.0010	0.0010	B556614	<0.0010	0.0010	B556614
Dissolved Cobalt (Co)	mg/L	0.0011	0.00030	B556614	0.020	0.00030	B556614
Dissolved Copper (Cu)	mg/L	0.0035	0.0010	B556614	0.023	0.0010	B556614
Dissolved Iron (Fe)	mg/L	<0.060	0.060	B557916	0.064	0.060	B557916
Dissolved Lead (Pb)	mg/L	<0.00020	0.00020	B556614	<0.00020	0.00020	B556614
Dissolved Lithium (Li)	mg/L	0.046	0.020	B557916	0.073	0.020	B557916
Dissolved Magnesium (Mg)	mg/L	160	0.20	B557916	13	0.20	B557916
Dissolved Manganese (Mn)	mg/L	0.15	0.0040	B557916	0.052	0.0040	B557916
Dissolved Molybdenum (Mo)	mg/L	0.0012	0.00020	B556614	0.0010	0.00020	B556614
Dissolved Nickel (Ni)	mg/L	0.0024	0.00050	B556614	0.0058	0.00050	B556614
Dissolved Phosphorus (P)	mg/L	<0.10	0.10	B557916	<0.10	0.10	B557916
Dissolved Potassium (K)	mg/L	21	0.30	B557916	6.3	0.30	B557916
Dissolved Selenium (Se)	mg/L	0.0048	0.00020	B556614	<0.00020	0.00020	B556614
Dissolved Silicon (Si)	mg/L	5.9	0.50	B557916	6.9	0.50	B557916
Dissolved Silver (Ag)	mg/L	<0.00010	0.00010	B556614	<0.00010	0.00010	B556614
Dissolved Sodium (Na)	mg/L	38	0.50	B557916	100	0.50	B557916
Dissolved Strontium (Sr)	mg/L	1.7	0.020	B557916	0.31	0.020	B557916
Dissolved Sulphur (S)	mg/L	300	0.20	B557916	33	0.20	B557916
Dissolved Thallium (Tl)	mg/L	<0.00020	0.00020	B556614	<0.00020	0.00020	B556614
Dissolved Tin (Sn)	mg/L	<0.0010	0.0010	B556614	<0.0010	0.0010	B556614
Dissolved Titanium (Ti)	mg/L	<0.0010	0.0010	B556614	0.0021	0.0010	B556614
Dissolved Uranium (U)	mg/L	0.11	0.00010	B556614	0.0050	0.00010	B556614
Dissolved Vanadium (V)	mg/L	<0.0010	0.0010	B556614	0.0015	0.0010	B556614
Dissolved Zinc (Zn)	mg/L	0.0030	0.0030	B556614	<0.0030	0.0030	B556614
RDL = Reportable Detection Limit							

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG372	CXG373	CXG374	CXG375	CXG376		
Sampling Date		2024/10/03 09:00	2024/10/03 09:10	2024/10/03 10:00	2024/10/03 11:25	2024/10/03 11:10		
COC Number		C#721083-01-01	C#721083-01-01	C#721083-01-01	C#721083-01-01	C#721083-01-01		
	UNITS	MW-01-BR	MW-02-BR	MW-03-BR	MW-04-OB	MW-04-BR	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.10	0.095	0.026	<0.020	0.024	0.020	B554482
Total Aluminum (Al)	mg/L	1.8	35	2.8	2.3	0.76	0.0030	B557707
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	<0.00060	<0.00060	<0.00060	0.00060	B557707
Total Arsenic (As)	mg/L	0.00096	0.0025	0.0028	0.00046	0.0023	0.00020	B557707
Total Barium (Ba)	mg/L	0.087	0.16	0.11	0.12	0.049	0.010	B557700
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0010	B557707
Total Boron (B)	mg/L	0.19	0.52	0.070	0.14	0.46	0.020	B557700
Total Calcium (Ca)	mg/L	270	69	130	170	39	0.30	B557700
Total Chromium (Cr)	mg/L	0.0032	0.0076	0.0069	0.0059	<0.0010	0.0010	B557707
Total Cobalt (Co)	mg/L	0.0070	0.28	0.0024	0.0012	0.00053	0.00030	B557707
Total Copper (Cu)	mg/L	0.018	0.38	0.0050	0.0036	0.0027	0.0010	B557707
Total Iron (Fe)	mg/L	2.7	27	6.9	2.7	0.53	0.060	B557700
Total Lead (Pb)	mg/L	0.0021	0.0042	0.0015	0.0012	0.0022	0.00020	B557707
Total Lithium (Li)	mg/L	0.040	0.099	0.033	0.037	0.11	0.020	B557700
Total Magnesium (Mg)	mg/L	140	24	26	56	25	0.20	B557700
Total Manganese (Mn)	mg/L	0.27	0.67	1.0	0.51	0.098	0.0040	B557700
Total Molybdenum (Mo)	mg/L	0.0019	0.0015	0.00035	<0.00020	0.0016	0.00020	B557707
Total Nickel (Ni)	mg/L	0.0052	0.030	0.0055	0.0035	0.0014	0.00050	B557707
Total Phosphorus (P)	mg/L	<0.10	0.79	<0.10	<0.10	<0.10	0.10	B557700
Total Potassium (K)	mg/L	21	14	9.0	5.7	8.8	0.30	B557700
Total Selenium (Se)	mg/L	0.0060	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B557707
Total Silicon (Si)	mg/L	7.7	50	13	12	7.9	0.50	B557700
Total Silver (Ag)	mg/L	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00010	B557707
Total Sodium (Na)	mg/L	38	100	15	31	140	0.50	B557700
Total Strontium (Sr)	mg/L	1.7	0.37	0.40	0.82	0.68	0.020	B557700
Total Sulphur (S)	mg/L	280	32	83	96	81	0.20	B557700
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00020	B557707
Total Tin (Sn)	mg/L	0.0011	0.020	<0.0010	<0.0010	<0.0010	0.0010	B557707
Total Titanium (Ti)	mg/L	0.14	1.4	0.23	0.19	0.020	0.0010	B557707
Total Uranium (U)	mg/L	0.14	0.0058	0.0017	0.0020	0.0066	0.00010	B557707
Total Vanadium (V)	mg/L	0.0073	0.048	0.0078	0.0066	<0.0010	0.0010	B557707

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG372	CXG373	CXG374	CXG375	CXG376		
Sampling Date		2024/10/03 09:00	2024/10/03 09:10	2024/10/03 10:00	2024/10/03 11:25	2024/10/03 11:10		
COC Number		C#721083-01-01	C#721083-01-01	C#721083-01-01	C#721083-01-01	C#721083-01-01		
	UNITS	**MW-01-BR**	**MW-02-BR**	**MW-03-BR**	**MW-04-OB**	**MW-04-BR**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.016	0.11	0.69	0.011	0.0066	0.0030	B557707
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG377		CXG378	CXG379		CXG380		
Sampling Date		2024/10/03 08:30		2024/10/03 10:15	2024/10/03 09:30		2024/10/03 09:45		
COC Number		C#721083-01-01		C#721083-01-01	C#721083-01-01		C#721083-01-01		
	UNITS	MW-05-BR	RDL	MW-06-BR	MW-07-BR	RDL	MW-08-BR	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	0.048	0.020	120	63	0.020	2.3	0.020	B554482
Total Aluminum (Al)	mg/L	1.1	0.0030	0.11	4.6	0.0030	3.5	0.0030	B557707
Total Antimony (Sb)	mg/L	<0.00060	0.00060	<0.00060	<0.00060	0.00060	<0.00060	0.00060	B557707
Total Arsenic (As)	mg/L	0.00030	0.00020	0.00022	0.00030	0.00020	0.00049	0.00020	B557707
Total Barium (Ba)	mg/L	0.030	0.010	0.022	0.023	0.010	0.025	0.010	B557700
Total Beryllium (Be)	mg/L	<0.0010	0.0010	<0.0010	<0.0010	0.0010	<0.0010	0.0010	B557707
Total Boron (B)	mg/L	0.022	0.020	0.046	<0.020	0.020	0.036	0.020	B557700
Total Calcium (Ca)	mg/L	53	0.30	78	100	0.30	62	0.30	B557700
Total Chromium (Cr)	mg/L	<0.0010	0.0010	<0.0010	<0.0010	0.0010	0.0017	0.0010	B557707
Total Cobalt (Co)	mg/L	0.0055	0.00030	0.052	0.021	0.00030	0.028	0.00030	B557707
Total Copper (Cu)	mg/L	0.0090	0.0010	0.75	3.5	0.0010	0.20	0.0010	B557707
Total Iron (Fe)	mg/L	1.3	0.060	4.6	0.36	0.060	1.1	0.060	B557700
Total Lead (Pb)	mg/L	0.00064	0.00020	0.013	0.0011	0.00020	0.0016	0.00020	B557707
Total Lithium (Li)	mg/L	<0.020	0.020	0.036	0.021	0.020	0.030	0.020	B557700
Total Magnesium (Mg)	mg/L	6.3	0.20	18	17	0.20	13	0.20	B557700
Total Manganese (Mn)	mg/L	0.22	0.0040	1.4	0.34	0.0040	0.42	0.0040	B557700
Total Molybdenum (Mo)	mg/L	0.00021	0.00020	<0.00020	<0.00020	0.00020	0.00059	0.00020	B557707
Total Nickel (Ni)	mg/L	0.0017	0.00050	0.019	0.019	0.00050	0.020	0.00050	B557707
Total Phosphorus (P)	mg/L	<0.10	0.10	<0.10	<0.10	0.10	<0.10	0.10	B557700
Total Potassium (K)	mg/L	4.1	0.30	7.8	12	0.30	5.5	0.30	B557700
Total Selenium (Se)	mg/L	<0.00020	0.00020	<0.00020	0.0014	0.00020	0.00042	0.00020	B557707
Total Silicon (Si)	mg/L	7.4	0.50	7.9	12	0.50	11	0.50	B557700
Total Silver (Ag)	mg/L	<0.00010	0.00010	<0.00010	0.00038	0.00010	<0.00010	0.00010	B557707
Total Sodium (Na)	mg/L	2.2	0.50	4.4	3.5	0.50	4.1	0.50	B557700
Total Strontium (Sr)	mg/L	0.058	0.020	0.14	0.11	0.020	0.13	0.020	B557700
Total Sulphur (S)	mg/L	11	0.20	96	110	0.20	47	0.20	B557700
Total Thallium (Tl)	mg/L	<0.00020	0.00020	0.00023	<0.00020	0.00020	<0.00020	0.00020	B557707
Total Tin (Sn)	mg/L	<0.0010	0.0010	<0.0010	<0.0010	0.0010	0.0021	0.0010	B557707
Total Titanium (Ti)	mg/L	0.066	0.0010	<0.0010	0.0090	0.0010	0.038	0.0010	B557707
Total Uranium (U)	mg/L	0.0027	0.00010	0.0024	0.0065	0.00010	0.0066	0.00010	B557707
Total Vanadium (V)	mg/L	0.0015	0.0010	<0.0010	<0.0010	0.0010	0.0016	0.0010	B557707

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG377		CXG378	CXG379		CXG380		
Sampling Date		2024/10/03 08:30		2024/10/03 10:15	2024/10/03 09:30		2024/10/03 09:45		
COC Number		C#721083-01-01		C#721083-01-01	C#721083-01-01		C#721083-01-01		
	UNITS	**MW-05-BR**	**RDL**	**MW-06-BR**	**MW-07-BR**	**RDL**	**MW-08-BR**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	0.017	0.0030	28	14	0.030	1.1	0.0030	B557707
RDL = Reportable Detection Limit									

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG381	CXG382			CXG383		
Sampling Date		2024/10/03 10:50	2024/10/03 10:30			2024/10/03 10:40		
COC Number		C#721083-01-01	C#721083-02-01			C#721083-02-01		
	UNITS	MW-09-OB	MW-10-OB	RDL	QC Batch	MW-11-OB	RDL	QC Batch
Elements								
Total Cadmium (Cd)	ug/L	0.50	3.2	0.020	B554482	0.057	0.020	B554482
Total Aluminum (Al)	mg/L	0.11	0.32	0.0030	B557707	0.86	0.0030	B559582
Total Antimony (Sb)	mg/L	<0.00060	<0.00060	0.00060	B557707	<0.00060	0.00060	B559582
Total Arsenic (As)	mg/L	0.0015	0.00043	0.00020	B557707	0.0030	0.00020	B559582
Total Barium (Ba)	mg/L	0.015	0.021	0.010	B557700	0.086	0.010	B559570
Total Beryllium (Be)	mg/L	<0.0010	<0.0010	0.0010	B557707	<0.0010	0.0010	B559582
Total Boron (B)	mg/L	0.055	0.063	0.020	B557700	0.051	0.020	B559570
Total Calcium (Ca)	mg/L	120	110	0.30	B557700	160	0.30	B559570
Total Chromium (Cr)	mg/L	<0.0010	<0.0010	0.0010	B557707	0.0027	0.0010	B559582
Total Cobalt (Co)	mg/L	0.041	0.043	0.00030	B557707	0.0070	0.00030	B559582
Total Copper (Cu)	mg/L	<0.0010	0.0026	0.0010	B557707	0.0022	0.0010	B559582
Total Iron (Fe)	mg/L	14	17	0.060	B557700	3.1	0.060	B559570
Total Lead (Pb)	mg/L	<0.00020	0.00078	0.00020	B557707	0.00054	0.00020	B559582
Total Lithium (Li)	mg/L	0.050	0.048	0.020	B557700	0.040	0.020	B559570
Total Magnesium (Mg)	mg/L	29	24	0.20	B557700	36	0.20	B559570
Total Manganese (Mn)	mg/L	2.0	2.0	0.0040	B557700	1.8	0.0040	B559570
Total Molybdenum (Mo)	mg/L	<0.00020	0.00042	0.00020	B557707	0.00048	0.00020	B559582
Total Nickel (Ni)	mg/L	0.015	0.019	0.00050	B557707	0.0045	0.00050	B559582
Total Phosphorus (P)	mg/L	<0.10	<0.10	0.10	B557700	<0.10	0.10	B559570
Total Potassium (K)	mg/L	6.8	6.9	0.30	B557700	5.9	0.30	B559570
Total Selenium (Se)	mg/L	<0.00020	<0.00020	0.00020	B557707	<0.00020	0.00020	B559582
Total Silicon (Si)	mg/L	9.4	9.7	0.50	B557700	11	0.50	B559570
Total Silver (Ag)	mg/L	<0.00010	<0.00010	0.00010	B557707	<0.00010	0.00010	B559582
Total Sodium (Na)	mg/L	6.5	8.3	0.50	B557700	9.5	0.50	B559570
Total Strontium (Sr)	mg/L	0.23	0.20	0.020	B557700	0.52	0.020	B559570
Total Sulphur (S)	mg/L	120	120	0.20	B557700	130	0.20	B559570
Total Thallium (Tl)	mg/L	<0.00020	<0.00020	0.00020	B557707	<0.00020	0.00020	B559582
Total Tin (Sn)	mg/L	<0.0010	<0.0010	0.0010	B557707	<0.0010	0.0010	B559582
Total Titanium (Ti)	mg/L	0.0078	0.025	0.0010	B557707	0.078	0.0010	B559582
Total Uranium (U)	mg/L	<0.00010	0.00039	0.00010	B557707	0.00034	0.00010	B559582
Total Vanadium (V)	mg/L	<0.0010	<0.0010	0.0010	B557707	0.0027	0.0010	B559582
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG381	CXG382			CXG383		
Sampling Date		2024/10/03 10:50	2024/10/03 10:30			2024/10/03 10:40		
COC Number		C#721083-01-01	C#721083-02-01			C#721083-02-01		
	UNITS	**MW-09-OB**	**MW-10-OB**	**RDL**	**QC Batch**	**MW-11-OB**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	23	22	0.030	B557707	1.8	0.0030	B559582
RDL = Reportable Detection Limit								

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG384		CXG385			CXG385		
Sampling Date		2024/10/03		2024/10/03			2024/10/03		
COC Number		C#721083-02-01		C#721083-02-01			C#721083-02-01		
	UNITS	MW-101	RDL	TRIP BLANK	RDL	QC Batch	TRIP BLANK Lab-Dup	RDL	QC Batch
Elements									
Total Cadmium (Cd)	ug/L	68	0.020	<0.020	0.020	B554482			
Total Aluminum (Al)	mg/L	5.0	0.0030	<0.0030	0.0030	B557707	<0.0030	0.0030	B557707
Total Antimony (Sb)	mg/L	<0.00060	0.00060	<0.00060	0.00060	B557707	<0.00060	0.00060	B557707
Total Arsenic (As)	mg/L	0.00048	0.00020	<0.00020	0.00020	B557707	<0.00020	0.00020	B557707
Total Barium (Ba)	mg/L	0.026	0.010	<0.010	0.010	B557700	<0.010	0.010	B557700
Total Beryllium (Be)	mg/L	<0.0010	0.0010	<0.0010	0.0010	B557707	<0.0010	0.0010	B557707
Total Boron (B)	mg/L	0.021	0.020	<0.020	0.020	B557700	<0.020	0.020	B557700
Total Calcium (Ca)	mg/L	98	0.30	<0.30	0.30	B557700	<0.30	0.30	B557700
Total Chromium (Cr)	mg/L	<0.0010	0.0010	<0.0010	0.0010	B557707	<0.0010	0.0010	B557707
Total Cobalt (Co)	mg/L	0.027	0.00030	<0.00030	0.00030	B557707	<0.00030	0.00030	B557707
Total Copper (Cu)	mg/L	4.5	0.0010	<0.0010	0.0010	B557707	<0.0010	0.0010	B557707
Total Iron (Fe)	mg/L	0.54	0.060	<0.060	0.060	B557700	<0.060	0.060	B557700
Total Lead (Pb)	mg/L	0.0015	0.00020	<0.00020	0.00020	B557707	<0.00020	0.00020	B557707
Total Lithium (Li)	mg/L	<0.020	0.020	<0.020	0.020	B557700	<0.020	0.020	B557700
Total Magnesium (Mg)	mg/L	17	0.20	<0.20	0.20	B557700	<0.20	0.20	B557700
Total Manganese (Mn)	mg/L	0.42	0.0040	<0.0040	0.0040	B557700	<0.0040	0.0040	B557700
Total Molybdenum (Mo)	mg/L	0.00022	0.00020	<0.00020	0.00020	B557707	<0.00020	0.00020	B557707
Total Nickel (Ni)	mg/L	0.023	0.00050	<0.00050	0.00050	B557707	<0.00050	0.00050	B557707
Total Phosphorus (P)	mg/L	<0.10	0.10	<0.10	0.10	B557700	<0.10	0.10	B557700
Total Potassium (K)	mg/L	11	0.30	<0.30	0.30	B557700	<0.30	0.30	B557700
Total Selenium (Se)	mg/L	0.0013	0.00020	<0.00020	0.00020	B557707	<0.00020	0.00020	B557707
Total Silicon (Si)	mg/L	12	0.50	<0.50	0.50	B557700	<0.50	0.50	B557700
Total Silver (Ag)	mg/L	0.00039	0.00010	<0.00010	0.00010	B557707	<0.00010	0.00010	B557707
Total Sodium (Na)	mg/L	3.4	0.50	<0.50	0.50	B557700	<0.50	0.50	B557700
Total Strontium (Sr)	mg/L	0.11	0.020	<0.020	0.020	B557700	<0.020	0.020	B557700
Total Sulphur (S)	mg/L	110	0.20	<0.20	0.20	B557700	<0.20	0.20	B557700
Total Thallium (Tl)	mg/L	<0.00020	0.00020	<0.00020	0.00020	B557707	<0.00020	0.00020	B557707
Total Tin (Sn)	mg/L	0.0013	0.0010	<0.0010	0.0010	B557707	<0.0010	0.0010	B557707
Total Titanium (Ti)	mg/L	0.016	0.0010	<0.0010	0.0010	B557707	<0.0010	0.0010	B557707
Total Uranium (U)	mg/L	0.0080	0.00010	<0.00010	0.00010	B557707	<0.00010	0.00010	B557707
Total Vanadium (V)	mg/L	<0.0010	0.0010	<0.0010	0.0010	B557707	<0.0010	0.0010	B557707

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

REGULATED METALS (CCME/AT1) - TOTAL

Bureau Veritas ID		CXG384		CXG385			CXG385		
Sampling Date		2024/10/03		2024/10/03			2024/10/03		
COC Number		C#721083-02-01		C#721083-02-01			C#721083-02-01		
	UNITS	**MW-101**	**RDL**	**TRIP BLANK**	**RDL**	**QC Batch**	**TRIP BLANK Lab-Dup**	**RDL**	**QC Batch**
Total Zinc (Zn)	mg/L	14	0.030	<0.0030	0.0030	B557707	<0.0030	0.0030	B557707

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

MERCURY BY COLD VAPOR (GROUND WATER)

Bureau Veritas ID		CXG372			CXG372		
Sampling Date		2024/10/03 09:00			2024/10/03 09:00		
COC Number		C#721083-01-01			C#721083-01-01		
	UNITS	MW-01-BR	RDL	QC Batch	MW-01-BR Lab-Dup	RDL	QC Batch
Elements							
Total Mercury (Hg)	mg/L	0.0000058	0.0000019	B560251			
Lab Filtered Elements							
Dissolved Mercury (Hg)	ug/L	<0.0019	0.0019	B547286	<0.0019	0.0019	B547286

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		CXG373			CXG374		CXG375		
Sampling Date		2024/10/03 09:10			2024/10/03 10:00		2024/10/03 11:25		
COC Number		C#721083-01-01			C#721083-01-01		C#721083-01-01		
	UNITS	MW-02-BR	RDL	QC Batch	MW-03-BR	QC Batch	MW-04-OB	RDL	QC Batch
Elements									
Dissolved Mercury (Hg)	mg/L				<0.0000019	B559886	<0.0000019	0.0000019	B561040
Total Mercury (Hg)	mg/L	<0.0000019	0.0000019	B560251	<0.0000019	B560251	<0.0000019	0.0000019	B560251
Lab Filtered Elements									
Dissolved Mercury (Hg)	ug/L	<0.0019	0.0019	B547286					

RDL = Reportable Detection Limit

Bureau Veritas ID		CXG376	CXG377	CXG378		
Sampling Date		2024/10/03 11:10	2024/10/03 08:30	2024/10/03 10:15		
COC Number		C#721083-01-01	C#721083-01-01	C#721083-01-01		
	UNITS	MW-04-BR	MW-05-BR	MW-06-BR	RDL	QC Batch
Elements						
Dissolved Mercury (Hg)	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000019	B559886
Total Mercury (Hg)	mg/L	<0.0000019	<0.0000019	<0.0000019	0.0000019	B560251

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

MERCURY BY COLD VAPOR (GROUND WATER)

Bureau Veritas ID		CXG378			CXG379	CXG380		
Sampling Date		2024/10/03 10:15			2024/10/03 09:30	2024/10/03 09:45		
COC Number		C#721083-01-01			C#721083-01-01	C#721083-01-01		
	UNITS	MW-06-BR Lab-Dup	RDL	QC Batch	MW-07-BR	MW-08-BR	RDL	QC Batch
Elements								
Dissolved Mercury (Hg)	mg/L				<0.0000019	<0.0000019	0.0000019	B561040
Total Mercury (Hg)	mg/L	<0.0000019	0.0000019	B560251	0.0000054	<0.0000019	0.0000019	B560251

RDL = Reportable Detection Limit
Lab-Dup = Laboratory Initiated Duplicate

Bureau Veritas ID		CXG381		CXG382	CXG383	CXG384		
Sampling Date		2024/10/03 10:50		2024/10/03 10:30	2024/10/03 10:40	2024/10/03		
COC Number		C#721083-01-01		C#721083-02-01	C#721083-02-01	C#721083-02-01		
	UNITS	MW-09-OB	QC Batch	MW-10-OB	MW-11-OB	MW-101	RDL	QC Batch
Elements								
Dissolved Mercury (Hg)	mg/L	<0.0000019	B561040	<0.0000019	<0.0000019	<0.0000019	0.0000019	B559886
Total Mercury (Hg)	mg/L	<0.0000019	B560251	<0.0000019	<0.0000019	0.0000061	0.0000019	B560251

RDL = Reportable Detection Limit

Bureau Veritas ID		CXG385		
Sampling Date		2024/10/03		
COC Number		C#721083-02-01		
	UNITS	TRIP BLANK	RDL	QC Batch
Elements				
Dissolved Mercury (Hg)	mg/L	<0.0000019	0.0000019	B561040
Total Mercury (Hg)	mg/L	<0.0000019	0.0000019	B560251

RDL = Reportable Detection Limit

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.9°C

Sample CXG372 [MW-01-BR] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG373 [MW-02-BR] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG374 [MW-03-BR] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG375 [MW-04-OB] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG376 [MW-04-BR] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG377 [MW-05-BR] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG378 [MW-06-BR] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG379 [MW-07-BR] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG380 [MW-08-BR] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG381 [MW-09-OB] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG382 [MW-10-OB] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG383 [MW-11-OB] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG384 [MW-101] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG385 [TRIP BLANK] : Sample was analyzed past method specified hold time for NO2 (N); NO2 (N) + NO3 (N) in Water. Exceedance of hold time increases the uncertainty of test results but does not necessarily imply that results are compromised.

Sample CXG379, Elements by ICP - Dissolved: Test repeated.
Sample CXG380, Elements by ICP - Dissolved: Test repeated.

Results relate only to the items tested.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B547286	Dissolved Mercury (Hg)	2024/10/10	110	80 - 120	110	80 - 120	<0.0019	ug/L	NC	20
B556081	Chloride (Cl)	2024/10/08	105	80 - 120	104	80 - 120	<1.0	mg/L	NC	20
B556081	Sulphate (SO4)	2024/10/08	NC	80 - 120	98	80 - 120	<1.0	mg/L	0.24	20
B556086	Chloride (Cl)	2024/10/08	104	80 - 120	103	80 - 120	<1.0	mg/L		
B556086	Sulphate (SO4)	2024/10/08	94	80 - 120	97	80 - 120	<1.0	mg/L	0.42	20
B556089	Chloride (Cl)	2024/10/08	NC	80 - 120	104	80 - 120	<1.0	mg/L	0.32	20
B556089	Sulphate (SO4)	2024/10/08	96	80 - 120	98	80 - 120	<1.0	mg/L	1.8	20
B556112	Alkalinity (PP as CaCO3)	2024/10/08					<1.0	mg/L	NC	20
B556112	Alkalinity (Total as CaCO3)	2024/10/08			98	80 - 120	<1.0	mg/L	7.1	20
B556112	Bicarbonate (HCO3)	2024/10/08					<1.0	mg/L	7.1	20
B556112	Carbonate (CO3)	2024/10/08					<1.0	mg/L	NC	20
B556112	Hydroxide (OH)	2024/10/08					<1.0	mg/L	NC	20
B556115	pH	2024/10/08			101	97 - 103			1.2	N/A
B556118	Conductivity	2024/10/08			100	90 - 110	<2.0	uS/cm	1.0	10
B556201	Chloride (Cl)	2024/10/08	111	80 - 120	103	80 - 120	<1.0	mg/L	0.13	20
B556201	Sulphate (SO4)	2024/10/08	NC	80 - 120	101	80 - 120	<1.0	mg/L	2.1	20
B556496	Dissolved Barium (Ba)	2024/10/08	96	80 - 120	99	80 - 120	<0.010	mg/L	1.5	20
B556496	Dissolved Boron (B)	2024/10/08	93	80 - 120	97	80 - 120	<0.020	mg/L	1.1	20
B556496	Dissolved Calcium (Ca)	2024/10/08	NC	80 - 120	99	80 - 120	<0.30	mg/L	0.021	20
B556496	Dissolved Iron (Fe)	2024/10/08	104	80 - 120	99	80 - 120	<0.060	mg/L	NC	20
B556496	Dissolved Lithium (Li)	2024/10/08	97	80 - 120	98	80 - 120	<0.020	mg/L	2.2	20
B556496	Dissolved Magnesium (Mg)	2024/10/08	NC	80 - 120	101	80 - 120	<0.20	mg/L	0.28	20
B556496	Dissolved Manganese (Mn)	2024/10/08	103	80 - 120	98	80 - 120	<0.0040	mg/L	1.2	20
B556496	Dissolved Phosphorus (P)	2024/10/08	101	80 - 120	98	80 - 120	<0.10	mg/L	NC	20
B556496	Dissolved Potassium (K)	2024/10/08	103	80 - 120	103	80 - 120	<0.30	mg/L	0.41	20
B556496	Dissolved Silicon (Si)	2024/10/08	92	80 - 120	94	80 - 120	<0.50	mg/L	0.73	20
B556496	Dissolved Sodium (Na)	2024/10/08	96	80 - 120	101	80 - 120	<0.50	mg/L	0.24	20
B556496	Dissolved Strontium (Sr)	2024/10/08	88	80 - 120	95	80 - 120	<0.020	mg/L	0.14	20
B556496	Dissolved Sulphur (S)	2024/10/08	NC	80 - 120	95	80 - 120	<0.20	mg/L	0.10	20
B556508	Dissolved Barium (Ba)	2024/10/08	99	80 - 120	100	80 - 120	<0.010	mg/L	18	20
B556508	Dissolved Boron (B)	2024/10/08	98	80 - 120	97	80 - 120	<0.020	mg/L	4.3	20
B556508	Dissolved Calcium (Ca)	2024/10/08	NC	80 - 120	100	80 - 120	<0.30	mg/L	0.0081	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B556508	Dissolved Iron (Fe)	2024/10/08	NC	80 - 120	102	80 - 120	<0.060	mg/L	0.20	20
B556508	Dissolved Lithium (Li)	2024/10/08	99	80 - 120	99	80 - 120	<0.020	mg/L	3.5	20
B556508	Dissolved Magnesium (Mg)	2024/10/08	103	80 - 120	103	80 - 120	<0.20	mg/L	0.055	20
B556508	Dissolved Manganese (Mn)	2024/10/08	NC	80 - 120	100	80 - 120	<0.0040	mg/L	0.28	20
B556508	Dissolved Phosphorus (P)	2024/10/08	103	80 - 120	100	80 - 120	<0.10	mg/L	NC	20
B556508	Dissolved Potassium (K)	2024/10/08	105	80 - 120	104	80 - 120	<0.30	mg/L	0.051	20
B556508	Dissolved Silicon (Si)	2024/10/08	92	80 - 120	96	80 - 120	<0.50	mg/L	0.32	20
B556508	Dissolved Sodium (Na)	2024/10/08	101	80 - 120	101	80 - 120	<0.50	mg/L	0.20	20
B556508	Dissolved Strontium (Sr)	2024/10/08	94	80 - 120	96	80 - 120	<0.020	mg/L	0.38	20
B556508	Dissolved Sulphur (S)	2024/10/08	NC	80 - 120	96	80 - 120	<0.20	mg/L	0.47	20
B556564	Dissolved Aluminum (Al)	2024/10/09	99	80 - 120	98	80 - 120	<0.0030	mg/L	0.56	20
B556564	Dissolved Antimony (Sb)	2024/10/09	101	80 - 120	102	80 - 120	<0.00060	mg/L	NC	20
B556564	Dissolved Arsenic (As)	2024/10/09	101	80 - 120	97	80 - 120	<0.00020	mg/L	2.6	20
B556564	Dissolved Beryllium (Be)	2024/10/09	96	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B556564	Dissolved Chromium (Cr)	2024/10/09	93	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B556564	Dissolved Cobalt (Co)	2024/10/09	94	80 - 120	95	80 - 120	<0.00030	mg/L	NC	20
B556564	Dissolved Copper (Cu)	2024/10/09	93	80 - 120	97	80 - 120	<0.0010	mg/L	11	20
B556564	Dissolved Lead (Pb)	2024/10/09	95	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B556564	Dissolved Molybdenum (Mo)	2024/10/09	95	80 - 120	98	80 - 120	<0.00020	mg/L	NC	20
B556564	Dissolved Nickel (Ni)	2024/10/09	94	80 - 120	96	80 - 120	<0.00050	mg/L	NC	20
B556564	Dissolved Selenium (Se)	2024/10/09	105	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B556564	Dissolved Silver (Ag)	2024/10/09	92	80 - 120	94	80 - 120	<0.00010	mg/L	NC	20
B556564	Dissolved Thallium (Tl)	2024/10/09	95	80 - 120	96	80 - 120	<0.00020	mg/L	NC	20
B556564	Dissolved Tin (Sn)	2024/10/09	94	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B556564	Dissolved Titanium (Ti)	2024/10/09	93	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B556564	Dissolved Uranium (U)	2024/10/09	96	80 - 120	97	80 - 120	<0.00010	mg/L	NC	20
B556564	Dissolved Vanadium (V)	2024/10/09	94	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B556564	Dissolved Zinc (Zn)	2024/10/09	NC	80 - 120	95	80 - 120	<0.0030	mg/L	0.37	20
B556587	Dissolved Aluminum (Al)	2024/10/10	94	80 - 120	107	80 - 120	<0.0030	mg/L	NC	20
B556587	Dissolved Antimony (Sb)	2024/10/10	106	80 - 120	104	80 - 120	<0.00060	mg/L	NC	20
B556587	Dissolved Arsenic (As)	2024/10/10	106	80 - 120	103	80 - 120	<0.00020	mg/L	16	20
B556587	Dissolved Beryllium (Be)	2024/10/10	99	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B556587	Dissolved Chromium (Cr)	2024/10/10	98	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B556587	Dissolved Cobalt (Co)	2024/10/10	98	80 - 120	99	80 - 120	<0.00030	mg/L	NC	20
B556587	Dissolved Copper (Cu)	2024/10/10	98	80 - 120	99	80 - 120	<0.0010	mg/L	NC	20
B556587	Dissolved Lead (Pb)	2024/10/10	98	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B556587	Dissolved Molybdenum (Mo)	2024/10/10	98	80 - 120	100	80 - 120	<0.00020	mg/L	NC	20
B556587	Dissolved Nickel (Ni)	2024/10/10	100	80 - 120	101	80 - 120	<0.00050	mg/L	NC	20
B556587	Dissolved Selenium (Se)	2024/10/10	107	80 - 120	103	80 - 120	<0.00020	mg/L	NC	20
B556587	Dissolved Silver (Ag)	2024/10/10	96	80 - 120	98	80 - 120	<0.00010	mg/L	NC	20
B556587	Dissolved Thallium (Tl)	2024/10/10	98	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B556587	Dissolved Tin (Sn)	2024/10/10	99	80 - 120	98	80 - 120	<0.0010	mg/L	NC	20
B556587	Dissolved Titanium (Ti)	2024/10/10	94	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B556587	Dissolved Uranium (U)	2024/10/10	99	80 - 120	100	80 - 120	<0.00010	mg/L	NC	20
B556587	Dissolved Vanadium (V)	2024/10/10	100	80 - 120	100	80 - 120	<0.0010	mg/L	NC	20
B556587	Dissolved Zinc (Zn)	2024/10/10	107	80 - 120	99	80 - 120	<0.0030	mg/L	NC	20
B556614	Dissolved Aluminum (Al)	2024/10/09	91	80 - 120	98	80 - 120	<0.0030	mg/L	NC	20
B556614	Dissolved Antimony (Sb)	2024/10/09	102	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20
B556614	Dissolved Arsenic (As)	2024/10/09	105	80 - 120	98	80 - 120	<0.00020	mg/L	15	20
B556614	Dissolved Beryllium (Be)	2024/10/09	94	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B556614	Dissolved Chromium (Cr)	2024/10/09	95	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B556614	Dissolved Cobalt (Co)	2024/10/09	94	80 - 120	97	80 - 120	<0.00030	mg/L	NC	20
B556614	Dissolved Copper (Cu)	2024/10/09	92	80 - 120	96	80 - 120	<0.0010	mg/L	0.78	20
B556614	Dissolved Lead (Pb)	2024/10/09	89	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B556614	Dissolved Molybdenum (Mo)	2024/10/09	107	80 - 120	96	80 - 120	<0.00020	mg/L	3.1	20
B556614	Dissolved Nickel (Ni)	2024/10/09	91	80 - 120	96	80 - 120	<0.00050	mg/L	5.1	20
B556614	Dissolved Selenium (Se)	2024/10/09	109	80 - 120	99	80 - 120	<0.00020	mg/L	2.7	20
B556614	Dissolved Silver (Ag)	2024/10/09	91	80 - 120	92	80 - 120	<0.00010	mg/L	NC	20
B556614	Dissolved Thallium (Tl)	2024/10/09	88	80 - 120	94	80 - 120	<0.00020	mg/L	NC	20
B556614	Dissolved Tin (Sn)	2024/10/09	104	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B556614	Dissolved Titanium (Ti)	2024/10/09	100	80 - 120	95	80 - 120	<0.0010	mg/L	NC	20
B556614	Dissolved Uranium (U)	2024/10/09	98	80 - 120	97	80 - 120	<0.00010	mg/L	0.71	20
B556614	Dissolved Vanadium (V)	2024/10/09	101	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B556614	Dissolved Zinc (Zn)	2024/10/09	101	80 - 120	95	80 - 120	<0.0030	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B556624	Nitrate plus Nitrite (N)	2024/10/08	82	80 - 120	103	80 - 120	<0.010	mg/L	NC	20
B556624	Nitrite (N)	2024/10/08	105	80 - 120	102	80 - 120	<0.010	mg/L	NC	20
B556628	Nitrate plus Nitrite (N)	2024/10/08	NC	80 - 120	103	80 - 120	<0.010	mg/L	4.5	20
B556628	Nitrite (N)	2024/10/08	103	80 - 120	102	80 - 120	<0.010	mg/L	NC	20
B556739	Alkalinity (PP as CaCO3)	2024/10/08					<1.0	mg/L	NC	20
B556739	Alkalinity (Total as CaCO3)	2024/10/08			98	80 - 120	<1.0	mg/L	7.1	20
B556739	Bicarbonate (HCO3)	2024/10/08					<1.0	mg/L	7.1	20
B556739	Carbonate (CO3)	2024/10/08					<1.0	mg/L	NC	20
B556739	Hydroxide (OH)	2024/10/08					<1.0	mg/L	NC	20
B556741	pH	2024/10/08			100	97 - 103			0.67	N/A
B556742	Conductivity	2024/10/08			101	90 - 110	<2.0	uS/cm	0.57	10
B557482	Nitrate plus Nitrite (N)	2024/10/09	112	80 - 120	105	80 - 120	<0.010	mg/L	NC	20
B557482	Nitrite (N)	2024/10/09	104	80 - 120	101	80 - 120	<0.010	mg/L	NC	20
B557700	Total Barium (Ba)	2024/10/10	97	80 - 120	99	80 - 120	<0.010	mg/L	NC	20
B557700	Total Boron (B)	2024/10/10	98	80 - 120	99	80 - 120	<0.020	mg/L	NC	20
B557700	Total Calcium (Ca)	2024/10/10	NC	80 - 120	100	80 - 120	<0.30	mg/L	NC	20
B557700	Total Iron (Fe)	2024/10/10	NC	80 - 120	97	80 - 120	<0.060	mg/L	NC	20
B557700	Total Lithium (Li)	2024/10/10	97	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B557700	Total Magnesium (Mg)	2024/10/10	NC	80 - 120	99	80 - 120	<0.20	mg/L	NC	20
B557700	Total Manganese (Mn)	2024/10/10	99	80 - 120	95	80 - 120	<0.0040	mg/L	NC	20
B557700	Total Phosphorus (P)	2024/10/10	96	80 - 120	95	80 - 120	<0.10	mg/L	NC	20
B557700	Total Potassium (K)	2024/10/10	102	80 - 120	101	80 - 120	<0.30	mg/L	NC	20
B557700	Total Silicon (Si)	2024/10/10	NC	80 - 120	95	80 - 120	<0.50	mg/L	NC	20
B557700	Total Sodium (Na)	2024/10/10	101	80 - 120	102	80 - 120	<0.50	mg/L	NC	20
B557700	Total Strontium (Sr)	2024/10/10	93	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B557700	Total Sulphur (S)	2024/10/10	NC	80 - 120	93	80 - 120	<0.20	mg/L	NC	20
B557707	Total Aluminum (Al)	2024/10/11	NC	80 - 120	105	80 - 120	<0.0030	mg/L	NC	20
B557707	Total Antimony (Sb)	2024/10/11	113	80 - 120	110	80 - 120	<0.00060	mg/L	NC	20
B557707	Total Arsenic (As)	2024/10/11	115	80 - 120	106	80 - 120	<0.00020	mg/L	NC	20
B557707	Total Beryllium (Be)	2024/10/11	111	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Chromium (Cr)	2024/10/11	109	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Cobalt (Co)	2024/10/11	111	80 - 120	103	80 - 120	<0.00030	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B557707	Total Copper (Cu)	2024/10/11	106	80 - 120	103	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Lead (Pb)	2024/10/11	110	80 - 120	107	80 - 120	<0.00020	mg/L	NC	20
B557707	Total Molybdenum (Mo)	2024/10/11	115	80 - 120	105	80 - 120	<0.00020	mg/L	NC	20
B557707	Total Nickel (Ni)	2024/10/11	111	80 - 120	103	80 - 120	<0.00050	mg/L	NC	20
B557707	Total Selenium (Se)	2024/10/11	112	80 - 120	104	80 - 120	<0.00020	mg/L	NC	20
B557707	Total Silver (Ag)	2024/10/11	109	80 - 120	104	80 - 120	<0.00010	mg/L	NC	20
B557707	Total Thallium (Tl)	2024/10/11	114	80 - 120	110	80 - 120	<0.00020	mg/L	NC	20
B557707	Total Tin (Sn)	2024/10/11	115	80 - 120	106	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Titanium (Ti)	2024/10/11	109	80 - 120	102	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Uranium (U)	2024/10/11	117	80 - 120	108	80 - 120	<0.00010	mg/L	NC	20
B557707	Total Vanadium (V)	2024/10/11	112	80 - 120	104	80 - 120	<0.0010	mg/L	NC	20
B557707	Total Zinc (Zn)	2024/10/11	108	80 - 120	101	80 - 120	<0.0030	mg/L	NC	20
B557916	Dissolved Barium (Ba)	2024/10/09	97	80 - 120	98	80 - 120	<0.010	mg/L	3.9	20
B557916	Dissolved Boron (B)	2024/10/09	97	80 - 120	97	80 - 120	<0.020	mg/L	NC	20
B557916	Dissolved Calcium (Ca)	2024/10/09	98	80 - 120	98	80 - 120	<0.30	mg/L	0.80	20
B557916	Dissolved Iron (Fe)	2024/10/09	101	80 - 120	99	80 - 120	<0.060	mg/L	2.3	20
B557916	Dissolved Lithium (Li)	2024/10/09	96	80 - 120	96	80 - 120	<0.020	mg/L	NC	20
B557916	Dissolved Magnesium (Mg)	2024/10/09	102	80 - 120	100	80 - 120	<0.20	mg/L	0.20	20
B557916	Dissolved Manganese (Mn)	2024/10/09	94	80 - 120	92	80 - 120	<0.0040	mg/L	0	20
B557916	Dissolved Phosphorus (P)	2024/10/09	102	80 - 120	99	80 - 120	<0.10	mg/L	NC	20
B557916	Dissolved Potassium (K)	2024/10/09	98	80 - 120	99	80 - 120	<0.30	mg/L	0.71	20
B557916	Dissolved Silicon (Si)	2024/10/09	96	80 - 120	97	80 - 120	<0.50	mg/L	2.3	20
B557916	Dissolved Sodium (Na)	2024/10/09	100	80 - 120	101	80 - 120	<0.50	mg/L	0.59	20
B557916	Dissolved Strontium (Sr)	2024/10/09	95	80 - 120	97	80 - 120	<0.020	mg/L	1.2	20
B557916	Dissolved Sulphur (S)	2024/10/09	101	80 - 120	97	80 - 120	<0.20	mg/L	0.79	20
B559570	Total Barium (Ba)	2024/10/11	101	80 - 120	99	80 - 120	<0.010	mg/L	0.037	20
B559570	Total Boron (B)	2024/10/11	105	80 - 120	102	80 - 120	<0.020	mg/L	0.88	20
B559570	Total Calcium (Ca)	2024/10/11	NC	80 - 120	97	80 - 120	<0.30	mg/L	0.37	20
B559570	Total Iron (Fe)	2024/10/11	159 (1)	80 - 120	103	80 - 120	<0.060	mg/L	0.11	20
B559570	Total Lithium (Li)	2024/10/11	104	80 - 120	101	80 - 120	<0.020	mg/L	0.091	20
B559570	Total Magnesium (Mg)	2024/10/11	NC	80 - 120	100	80 - 120	<0.20	mg/L	0.53	20
B559570	Total Manganese (Mn)	2024/10/11	107	80 - 120	100	80 - 120	<0.0040	mg/L	0.63	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B559570	Total Phosphorus (P)	2024/10/11	104	80 - 120	100	80 - 120	<0.10	mg/L	NC	20
B559570	Total Potassium (K)	2024/10/11	101	80 - 120	98	80 - 120	<0.30	mg/L	0.29	20
B559570	Total Silicon (Si)	2024/10/11	161 (1)	80 - 120	98	80 - 120	<0.50	mg/L	2.2	20
B559570	Total Sodium (Na)	2024/10/11	101	80 - 120	99	80 - 120	<0.50	mg/L	0.072	20
B559570	Total Strontium (Sr)	2024/10/11	97	80 - 120	98	80 - 120	<0.020	mg/L	0.61	20
B559570	Total Sulphur (S)	2024/10/11	NC	80 - 120	97	80 - 120	<0.20	mg/L	0.53	20
B559582	Total Aluminum (Al)	2024/10/11	NC	80 - 120	94	80 - 120	<0.0030	mg/L	47 (1)	20
B559582	Total Antimony (Sb)	2024/10/11	111	80 - 120	101	80 - 120	<0.00060	mg/L	NC	20
B559582	Total Arsenic (As)	2024/10/11	112	80 - 120	100	80 - 120	<0.00020	mg/L	5.7	20
B559582	Total Beryllium (Be)	2024/10/11	111	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B559582	Total Chromium (Cr)	2024/10/11	108	80 - 120	96	80 - 120	<0.0010	mg/L	NC	20
B559582	Total Cobalt (Co)	2024/10/11	108	80 - 120	97	80 - 120	<0.00030	mg/L	6.2	20
B559582	Total Copper (Cu)	2024/10/11	106	80 - 120	98	80 - 120	<0.0010	mg/L	10	20
B559582	Total Lead (Pb)	2024/10/11	109	80 - 120	97	80 - 120	<0.00020	mg/L	NC	20
B559582	Total Molybdenum (Mo)	2024/10/11	115	80 - 120	99	80 - 120	<0.00020	mg/L	4.8	20
B559582	Total Nickel (Ni)	2024/10/11	107	80 - 120	97	80 - 120	<0.00050	mg/L	2.4	20
B559582	Total Selenium (Se)	2024/10/11	112	80 - 120	102	80 - 120	<0.00020	mg/L	NC	20
B559582	Total Silver (Ag)	2024/10/11	111	80 - 120	96	80 - 120	<0.00010	mg/L	NC	20
B559582	Total Thallium (Tl)	2024/10/11	113	80 - 120	99	80 - 120	<0.00020	mg/L	NC	20
B559582	Total Tin (Sn)	2024/10/11	110	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B559582	Total Titanium (Ti)	2024/10/11	99	80 - 120	94	80 - 120	<0.0010	mg/L	17	20
B559582	Total Uranium (U)	2024/10/11	112	80 - 120	100	80 - 120	<0.00010	mg/L	4.2	20
B559582	Total Vanadium (V)	2024/10/11	111	80 - 120	97	80 - 120	<0.0010	mg/L	NC	20
B559582	Total Zinc (Zn)	2024/10/11	84	80 - 120	97	80 - 120	<0.0030	mg/L	14	20
B559886	Dissolved Mercury (Hg)	2024/10/10	101	80 - 120	102	80 - 120	<0.0000019	mg/L	NC	20
B560251	Total Mercury (Hg)	2024/10/10	105	80 - 120	102	80 - 120	<0.0000019	mg/L	NC	20
B561040	Dissolved Mercury (Hg)	2024/10/11	103	80 - 120	106	80 - 120	<0.0000019	mg/L	NC	20

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		Spiked Blank		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
B561687	Dissolved Manganese (Mn)	2024/10/11	98	80 - 120	100	80 - 120	<0.0040	mg/L	2.0	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

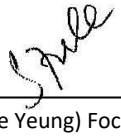
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Ghayasuddin Khan, M.Sc., P.Chem., QP, Scientific Specialist, Inorganics



Suwan (Sze Yeung) Fock, B.Sc., Scientific Specialist

Bureau Veritas Proprietary Software
Logiciel Propriétaire de Bureau Veritas

Automated Statchk

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Scott Cantwell, General Manager responsible for Manitoba Environmental laboratory operations.

Bureau Veritas Winnipeg: Unit D, 675 Berry Street R3H 1A7 Telephone (204) 772-7276 Fax (204) 772-2386

C480200
2024/10/04 14:50

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#7500 KGS Group	Company Name:		Quotation #:	C31455	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Ed Collins; Rachel Dyck; ~~Ryan Rankin~~	P.O. #:			721083
Address:	865 Waverly St., 3rd Floor	Address:		Project:	21-1357-005	COC #:	Project Manager:
	Winnipeg MB R3T 5P4			Project Name:		C#721083-01-01	Janelle Kochan
Tel:	(204) 896-1209 Fax:	Tel:	Fax:	Site #:			
Email:	payables@kgsgroup.com	Email:	Ecollins@kgsgroup.com; rdyck@kgsgroup.com	Sampled By:	RCP/AC		

Regulatory Criteria:
- [ ] ATI
- [x] ~~CCME~~ MW
- [x] Other MWQSOG

Special Instructions: *dissolved metals & dissolved mercury bottles for MW-01-BR and MW-02-BR were not field filtered and had preservative rinsed out

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Routine Water & Diss. Regulated Metals	Regulated Metals (CCME/AT1) - Total	Mercury (Total) by CV	Mercury (Dissolved) by CV	# of Bottles	Comments
1		MW-01-BR	24/10/03	9:00	GW	N	X	X	X	X	5	* Analyze DOC & turbidity ASAP to meet hold times *
2		MW-02-BR		9:10		N	X	X	X	X		
3		MW-03-~~OB~~BR		10:00		Y	X	X	X	X		
4		MW-04-OB		11:25		Y	X	X	X	X		
5		MW-04-BR		11:10		Y	X	X	X	X		
6		MW-05-BR		8:30		Y	X	X	X	X		
7		MW-06-BR		10:15		Y	X	X	X	X		
8		MW-07-BR		9:30		Y	X	X	X	X		
9		MW-08-BR		9:45		Y	X	X	X	X		
10		MW-09-OB		10:50		Y	X	X	X	X		

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT: [x]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests are > 5 days - contact your Project Manager for details

Job Specific Rush TAT (if applies to entire submission) [ ]
Date Required:
Rush Confirmation Number: *(call lab for #)*

MCAL-2024-10-634

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rob Hall / Rachel Perrella	24/10/04	14:45	BH Brooklyn Hiebert	24/10/04	1450		[ ]	3.8/3.5/4.3	[ ] Yes [ ] No
			Jason Sit	24/10/07	0930				

CAL ACTR

10 days

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
** ALL SAMPLES ARE HELD FOR 60 DAYS AFTER SAMPLE RECEIPT, FOR SPECIAL REQUESTS CONTACT YOUR PROJECT MANAGER

White: Bureau Veritas Yellow: Client

Bureau Veritas Canada (2019) Inc.

C480200
2024/10/04 14:50

Bureau Veritas
4000 19st N.E, Calgary, Alberta Canada T2E 6P8 Tel:(403) 291-3077 Toll-free:800-563-6266 Fax:(403) 291-9468 www.bvna.com

CHAIN OF CUSTODY RECORD

INVOICE TO:		REPORT TO:		PROJECT INFORMATION:		Laboratory Use Only:	
Company Name:	#7500 KGS Group	Company Name:		Quotation #:	C31455	Bureau Veritas Job #:	Bottle Order #:
Attention:	Accounts Payable	Attention:	Ed Collins ; Rachel Dyck	P.O. #:			721083
Address:	865 Waverly St., 3rd Floor	Address:		Project:	21-1357-005		
	Winnipeg MB R3T 5P4			Project Name:		COC #:	Project Manager:
Tel:	(204) 896-1209 Fax:	Tel:	Fax:	Site #:		C#721083-02-01	Janelle Kochan
Email:	payables@kgsgroup.com	Email:	Ecollins@kgsgroup.com ; rdyck@kgsgroup.com	Sampled By:	RCP/AC		

Regulatory Criteria:
- [ ] ATI
- [x] CCME
- [x] Other MWQSOG

Special Instructions: Analyze DOC ; turbidity ASAP to meet hold times

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BUREAU VERITAS

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y / N)	Routine Water & Diss. Regulated Metals	Regulated Metals (CCME/AT1) - Total	Mercury (Total) by CV	Mercury (Dissolved) by CV	# of Bottles	Comments
1		MW-10-OB	24/10/03	10:30	GW	Y	X	X	X	X	5	
2		MW-11-OB	24/10/03	10:40	GW	Y	X	X	X	X	5	
3		MW-101	24/10/03	AM	GW	Y	X	X	X	X	5	
4												
5		TRIP BLANK	—	—	blank	-	X	X	X	X	5	
6												
7												
8												
9												
10												

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT: [X]
(will be applied if Rush TAT is not specified):
Standard TAT = 5-7 Working days for most tests..
Please note: Standard TAT for certain tests are > 5 days - contact your Project Manager for details

Job Specific Rush TAT (if applies to entire submission)
Date Required: _____ [ ]
Rush Confirmation Number: _____ *(call lab for #)*

* RELINQUISHED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	Date: (YY/MM/DD)	Time	# jars used and not submitted	Laboratory Use Only: Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
Rachel Dyck / Rachel Perrella	24/10/04	14:45	BH Brooklyn Hiebert	24/10/04	1450		[ ]	3.8/4.0/3.5/4.3	[ ] Yes [ ] No
			Jason Bl	24/10/07	0930				

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BUREAU VERITAS'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.BVNA.COM/ENVIRONMENTAL-LABORATORIES/RESOURCES/COC-TERMS-AND-CONDITIONS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.
** ALL SAMPLES ARE HELD FOR 60 DAYS AFTER SAMPLE RECEIPT, FOR SPECIAL REQUESTS CONTACT YOUR PROJECT MANAGER

White: Bureau Veritas Yellow: Client

Ice - yes

BUREAU VERITAS

ADDITIONAL COOLER TEMPERATURE RECORD

CHAIN-OF-CUSTODY RECORD

CHAIN OF CUSTODY #	
Page 1/2 of 2/2	721083
Page 3/3 of 3/3	737331
Page 1 of 1	737508
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	
Page ___ of ___	

COOLER OBSERVATIONS: MCAL

BV JOB#:

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	2.3	1.2	3.1
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	2.3	2.4	1.9
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1.2	1.9	3.1
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	2.1	0.0	0.2
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	3.3	3.8	5.4
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP	1.9	0.8	16
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

CUSTODY SEAL	YES	NO	COOLER ID			
PRESENT			TEMP			
INTACT				1	2	3
ICE PRESENT						

RECEIVED BY (SIGN & PRINT)		DATE (YYYY/MM/DD)	TIME (HH:MM)
Jason Bil		2024 10 07	0930

C480200
2024/10/04 14:50

KGS
GROUP

Experience in Action