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Eagle Mountain - Woodfibre Gas Pipeline Project

BCER Waste Discharge Permit Weekly Report



**Eagle Mountain - Woodfibre Gas Pipeline Project
Waste Discharge Permit PE-110163 Report**

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Appendix A: BC Rail Point of Discharge from Water Treatment System Documentation

Appendix B: BC Rail Receiving Environment Documentation

Appendix C: Woodfibre Point of Discharge from Water Treatment System Documentation

Appendix D: Woodfibre Receiving Environment Documentation

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Preamble

This weekly report for the British Columbia Energy Regulator (BCER) Waste Discharge Permit (BCER number PE-110163) for the FortisBC Eagle Mountain – Woodfibre Gas Pipeline (EGP) Project includes the results of water quality monitoring and sampling of the receiving environment (upstream and downstream) and point of discharge.

FortisBC has retained Triton Environmental Consultants Ltd. as the Qualified Professional to implement and oversee the monitoring and sampling program in the receiving environments. The data represented below, including laboratory reported exceedances, represent background conditions from the receiving environment sampling as shown on the Waste Discharge Permit.

Introduction

The results provided in this document are submitted to BC Energy Regulator (BCER) by FortisBC as per the requirements listed in the Waste Discharge Permit PE-110163 Section 4.2:

The Permittee shall summarize the results of the discharge and receiving environment compliance sampling and monitoring program in a report that shall be submitted weekly over the term of this permit. The sampling and monitoring results shall be suitably tabulated and include comparison to the respective British Columbia Approved and Working Water Quality Guidelines for Freshwater & Marine Aquatic Life, as published by the Ministry of Environment & Climate Change Strategy. Any exceedance of regulatory guidelines shall be clearly highlighted, and any missed sampling events/missing data shall be identified with an explanation provided. Reporting frequency may be reduced upon a history of compliance and by written confirmation from the BCER. These reports shall be submitted to Waste.Management@bc-er.ca. A copy of the reports shall be provided to each First Nation consulted with regarding the subject permit, and also made publicly available on the FortisBC Eagle Mountain-Woodfibre Gas Pipeline Project | Talking Energy webpage.

Sampling Methodology

The monitoring and sampling has been carried out in accordance with the procedures described in the most recent edition of the “British Columbia Field Sampling Manual” using field equipment and lab samples to meet daily and real time requirements for the Waste Discharge Permit.

At the receiving environments, real time and daily readings are being monitored at the same time with one piece of equipment, allowing all the daily readings real time. Visible sheen will be monitored with visual inspections during times of discharge or sampling.

At the point of discharge from the WTP, the parameters are being monitored using field equipment and sondes/real time meters make and models to be confirmed by the contractor. Table 1 and Table 2 below show how each parameter is being monitored.

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Table 1. Monitor Details for the Point of Discharge from the Water Treatment System-BC Rail and Woodfibre

| Permit Frequency | Parameters | Details |
|-----------------------------------|---------------------------|--|
| Daily | Visible Sheen | Monitoring using In field inspection |
| Daily (or per batch) | DO | Monitoring using YSI ProDSS |
| | ORP | Monitoring using YSI ProDSS |
| | Salinity | Monitoring using YSI ProDSS |
| Real Time (or per batch) | pH | Monitoring using GF Dryloc pH Series NPT |
| | Temperature | Monitoring using YSI ProDSS |
| | NTU | Monitoring using Observator NEP9504GPI |
| | Electrical Conductivity | Monitoring using YSI ProDSS |
| Weekly (or per batch) Lab Samples | List prescribed in permit | Lab samples |

Point of Discharge from the WTP equipment details: YSI ProDSS with pH, conductivity, DO, ORP and turbidity probe that measure pH, temperature, NTU, electrical conductivity, ORP, DO and salinity.

Table 2. Monitor Details for the Receiving Environment (upstream and downstream)-BC Rail and Woodfibre

| Permit Frequency | Parameters | Details |
|--------------------|---------------------------|--|
| Daily | Visible Sheen | In field inspection |
| Daily | DO | Monitoring using Sonde- AquaTROLL 600 datalogger |
| | ORP | Monitoring using Sonde- AquaTROLL 600 datalogger |
| | Salinity | Monitoring using Sonde- AquaTROLL 600 datalogger |
| Real Time | pH | Monitoring using Sonde- AquaTROLL 600 datalogger |
| | Temperature | Monitoring using Sonde- AquaTROLL 600 datalogger |
| | NTU | Monitoring using Sonde- AquaTROLL 600 datalogger |
| | Electrical Conductivity | Monitoring using Sonde- AquaTROLL 600 datalogger |
| Weekly Lab Samples | List prescribed in permit | Lab samples |

Receiving Environment equipment details: Sondes: Aqua-TROLL 600 made by In-Situ Inc. Sondes set up to log temperature, specific conductivity, salinity (in PSU), pH, ORP, DO (mg/L), and turbidity (NTU) at 10 minute intervals.

Summary-BC Rail Site

Site Activities

- No discharges occurred during this time period.

Point of Discharge from Water Treatment System Monitoring

Table 3 below includes information on water quality and lab sampling during discharges. Appendix A includes a full set of lab results with real time/field samples from discharges.

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Table 3: Discharge from Water Treatment System Information

| Location | Date of Discharge | Date of Lab Sample (for the discharge) | Real Time Monitored | Field Samples Taken | Discharge Rate (batch) | Discharge Volume (batch) | Results |
|----------|---------------------------------------|--|---------------------|---------------------|------------------------|--------------------------|---------|
| BC Rail | No discharges during this time period | | | | | | |

Exceedance details

- No discharges during this reporting period.

Receiving Environment Monitoring

The receiving environment is being monitored as outlined in the permit.

Table 4: Upstream Monitoring Information

| Location | Date of Lab Sample | Real Time Monitored | Field Samples Taken | Results |
|-------------------------|--------------------|---------------------|---------------------|---|
| Squamish River Upstream | 2024-05-13 | Yes * | Yes | Full set of lab sample results, photo and documentation are provided in Appendix B. |

Table 5: Downstream Monitoring Information

| | Date of Lab Sample | Real Time Monitored | Field Samples Taken | Results |
|---------------------------|--------------------|---------------------|---------------------|---|
| Squamish River Downstream | 2023-05-13 | Yes * | Yes | Full set of lab sample results, photo and documentation are provided in Appendix B. |

* Sondes set up to log temperature, specific conductivity, salinity (in PSU), pH, ORP, DO (mg/L), and turbidity (NTU) at 10 minute intervals.

Receiving Environment Monitoring Details

- Visual sheen checks conducted for days of discharge.
- All receiving environment lab results are in Appendix B.
- Any recorded exceedances in the laboratory and field samples collected from the receiving environment (upstream and downstream) are indicative of the existing background water quality in the Squamish River, and are not related to the EGP Project activities.

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Summary-Woodfibre

Site Activities

- No discharges during this reporting period.

Point of Discharge from Water Treatment System Monitoring

Table 3 below includes information on the batch test water quality and lab sampling. Appendix C includes a full set of lab results with real time/field samples from the batch discharge.

Table 3: Discharge from Water Treatment System Information

| Location | Date of Discharge | Date of Lab Sample (for the discharge) | Real Time Monitored | Field Samples Taken | Discharge Rate (batch) | Discharge Volume (batch) | Results |
|-----------|-------------------------------------|--|---------------------|---------------------|------------------------|--------------------------|---------|
| Woodfibre | No discharges this reporting period | | | | | | |

Exceedance details

- No discharges during this reporting period.

Receiving Environment Monitoring

The receiving environment is being monitored as outlined in the permit.

Table 4: Upstream Monitoring Information

| Location | Date of Lab Sample | Real Time Monitored | Field Samples Taken | Results |
|--------------------|--------------------|---------------------|---------------------|-----------------------------------|
| Woodfibre Upstream | 2024-05-15 | Yes * | No | Field documentation in Appendix D |

Table 5: Downstream Monitoring Information

| | Date of Lab Sample | Real Time Monitored | Field Samples Taken | Results |
|----------------------|--------------------|---------------------|---------------------|-----------------------------------|
| Woodfibre Downstream | 2024-05-15 | Yes * | No | Field documentation in Appendix D |

* Sondes set up to log temperature, specific conductivity, salinity (in PSU), pH, ORP, DO (mg/L), and turbidity (NTU) at 10 minute intervals.

Receiving Environment Monitoring Details



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- Visual sheen checks are conducted during discharges.
- Any recorded exceedances in the laboratory and field samples collected from the receiving environment (upstream and downstream) are indicative of the existing background water quality in the Squamish River, and are not related to the EGP Project activities.

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Appendix A: BCR Site Point of Discharge from Water Treatment Plant Documentation

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BCR Site Batch Sample Analysis

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BCR Site Batch Sample Lab Documentation

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BCR Site WTP Discharge Field Notes and Logs

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Appendix B: BCR Site Receiving Environment Documentation

| | | | |
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BCR Site Receiving Environment Sample Analysis

| TRITON | | Sample ID Lab ID | Reviewed and signed off by | BCR US1 BCR DS1 BCR DS2 BCR DS3 BCR DS4 | Sample or value notes | BCWQ FAL - Short Term | BCWQ FAL - Long Term | BCWQ MAL - Short Term | BCWQ MAL - Long Term |
|--|----------------|---|--|--|---|-----------------------|----------------------|---|--|
| Analyte | Units | SCAWWQ-PAL-LT ¹² | SCAWWQ-PAL-ST ¹³ | SCAWWQ-MAL-ST ¹⁴ | SCAWWQ-MAL-LT ¹² | BCR US1 | BCR DS1 | BCR DS2 | BCR DS3 |
| In Situ Parameters | | | | | | | | | |
| pH (feld) | pH units | 6.5-9.0 | 6.5-9.0 | 7.0-8.7 | 7.0-8.7 | 7.54 | 7.36 | | |
| Guideline notes: | | | | | | | | | |
| Temperature (feld) | °C | - | Max < from BKG 1°C, hourly rate of change >0.5°C ¹¹ | Max < from BKG 1°C, hourly rate of change >0.5°C ¹¹ | - | 9.6 | 9.6 | | |
| Guideline notes: | | | | | | | | | |
| Turbidity (feld) | NTU | Varies with background, see note Lowest value/guideline is 3 NTU | Varies with background, see note Lowest value/guideline is 3 NTU | Varies with background, see note Lowest value/guideline is 3 NTU | Varies with background, see note Lowest value/guideline is 3 NTU | 19.60 | 17.90 | | |
| Guideline notes: | | | | | | | | | |
| Dissolved Oxygen (feld) | mg/L | Varies with stage, see note | Varies with stage, see note | Varies with stage, see note | Varies with stage, see note | 12.67 | 11.53 | Buried embayment minimum 0 mg/L, all other stages 8 mg/L. Refer to BC Water Quality Guidelines for more information. | Buried embayment minimum 0 mg/L, all other stages 8 mg/L. Refer to BC Water Quality Guidelines for more information. |
| Guideline notes: | | | | | | | | | |
| Total Suspended Solids | mg/L | Varies with background, see note Lowest value/guideline is 6mg/L | Varies with background, see note Lowest value/guideline is 20mg/L | Varies with background, see note Lowest value/guideline is 20mg/L | Varies with background, see note Lowest value/guideline is 6mg/L | 6.6 | 15.6 | | |
| Guideline notes: | | | | | | | | | |
| Dissolved Organic Carbon (DOC) | mg/L | - | - | - | - | 2.44 | 1.96 | | |
| Guideline notes: | | | | | | | | | |
| Total Alkalinity (CaCO ₃) | mg/L | Categorical | - | - | - | 9.9 | 9 | The upstream and downstream locations have high sensitivity to acid inputs (i.e. low buffering capacity). | Guideline is for alkalinity (as CaCO ₃) and categorizes the sensitivity of a water body to acid inputs. Relative to 10 mg/L, it is considered very sensitive to acid inputs. Relative to 100 mg/L, it is moderately sensitive to acid inputs. Relative to 1000 mg/L, it is low sensitivity to acid inputs. |
| Guideline notes: | | | | | | | | | |
| Total Sulfide (as H ₂ S) | mg/L | - | - | - | - | < 0.0015 | < 0.0015 | | |
| Guideline notes: | | | | | | | | | |
| Total Sulfide (un-ionized as H ₂ S) | mg/L | 0.002 | - | - | - | < 0.0015 | < 0.0015 | | |
| Guideline notes: | | | | | | | | | |
| Nutrients and Nutrients | | | | | | | | | |
| Nitrogen | mg/L ammonia-N | Varies with pH and temperature. See note. | Varies with pH and temperature. See note. | Varies with pH, temperature and salinity. See note. | Varies with pH, temperature and salinity. See note. | 0.0661 | 0.0376 | Guideline for ammonia as N and is pH and temperature dependent. Refer to Table 27D in BC WQG for guideline values. | Guideline for ammonia as N and is pH and temperature dependent. Refer to Table 27C in BC WQG for guideline values. |
| Guideline notes: | | | | | | | | | |
| Chloride | mg/L | 150 | 600 | > 110% of background | < 90% of background | 0.64 | 0.61 | | Human activities should not cause the chloride of marine and estuarine waters to fluctuate by more than 10% of the natural chloride content at that time and depth. |
| Guideline notes: | | | | | | | | | |
| Fluoride | mg/L | - | Varies with hardness | 1.5 | - | < 0.020 | < 0.020 | Guideline has interim status. Guideline is for fluorides in the following equation: Guideline = [1.03 * (H ₂ O) + 0.73 * (Ca ²⁺) + 0.12 * (Mg ²⁺) + 0.015]. | Guideline has interim status. Guideline is for fluorides in the following equation: Guideline = [1.03 * (H ₂ O) + 0.73 * (Ca ²⁺) + 0.12 * (Mg ²⁺) + 0.015]. |
| Guideline notes: | | | | | | | | | |
| Strontium (Sr) | mg/L | 30-3 | - | 3.7 | - | 0.0244 | 0.0278 | | |
| Guideline notes: | | | | | | | | | |
| Silica (as Si) | mg/L | Varies with chloride. See note. | Varies with chloride. See note. | - | - | < 0.0016 | < 0.0016 | Varies with chloride. Refer to Table 27B in BC WQG for guideline values. | Varies with chloride. Refer to Table 27B in BC WQG for guideline values. |
| Guideline notes: | | | | | | | | | |
| Total Phosphorous | mg/L | 0.005 to 0.015 | - | - | - | 0.0043 | 0.0032 | | Guideline is for fishes. Refer to BCQG guideline for nutrients and algae for more information. Guideline does not apply to algae. |
| Guideline notes: | | | | | | | | | |
| Sulfate (as SO ₄) | mg/L | Varies with hardness. See note. | - | - | - | 2.37 | 2.29 | | |
| Guideline notes: | | | | | | | | | |
| Total Metals | | | | | | | | | |
| Nickel (Ni)-Total | mg/L | Varies with pH, DOC, hardness | - | - | - | 0.68 | 0.947 | The upstream and downstream location between the river mouth and the Squamish River has been impacted by industrial activities. Discharge from the river mouth may be influenced by construction activities and may be characterized by the Squamish River and its local geology. | Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated with the following equation: Guideline = [(EPM)(0.645 + UNDOC)] / (2.25 + 1.1(Nickel)). If hardness is below the DOC or hardness range, the minimum hardness or DOC will be applied in the calculation. |
| Guideline notes: | | | | | | | | | |
| Antimony (Sb)-Total | mg/L | 0.014 | 0.23 | - | - | < 0.0010 | < 0.0010 | | Intern guideline status |
| Guideline notes: | | | | | | | | | |
| Boron (B)-Total | mg/L | 0.015 | - | - | - | 0.0125 | 0.0098 | | Working guideline status |
| Guideline notes: | | | | | | | | | |
| Beryllium (Be)-Total | mg/L | 0.00113 | - | - | - | 0.100 | 0.00500 | | Working guideline status |
| Guideline notes: | | | | | | | | | |
| Boron (B)-Total | mg/L | 1.2 | - | - | - | 0.450 | 0.450 | | Working guideline status |
| Guideline notes: | | | | | | | | | |
| Calcium (Ca)-Total | mg/L | - | - | - | - | 3.65 | 3.65 | | Working guideline status |
| Guideline notes: | | | | | | | | | |
| Chromium (Cr)-Total | mg/L | 0.001 | - | - | - | < 0.00050 | < 0.00050 | | Working guideline status |
| Guideline notes: | | | | | | | | | |
| Chromium (Cr)-Dissolved | mg/L | 0.001 | - | - | - | < 0.00050 | < 0.00050 | | Working guideline status |
| Guideline notes: | | | | | | | | | |
| Copper (Cu)-Total | mg/L | 0.0004 | - | - | - | < 0.0001 | < 0.0001 | | Working guideline status |
| Guideline notes: | | | | | | | | | |
| Lead (Pb)-Total | mg/L | Varies with hardness. See Note. | Varies with hardness. See Note. | 0.14 | 0.002 | 0.00011 | 0.000124 | | Guideline varies with hardness. Guideline is for lead in BC Water Quality Guidelines for more information. Guideline equation: EXP1 = 27.7 * (H ₂ O) + 0.01 * (Pb) + 0.00011. |
| Guideline notes: | | | | | | | | | |
| Phosphorus (P)-Total | mg/L | - | - | - | - | < 0.0010 | < 0.0010 | | Guideline equation: EXP1 = 27.7 * (H ₂ O) + 0.01 * (P) + 0.00010. |
| Guideline notes: | | | | | | | | | |
| Manganese (Mn)-Total | mg/L | Varies with hardness | Varies with hardness | - | - | 0.0145 | 0.0195 | | Guideline varies with hardness. Guideline is for manganese in BC Water Quality Guidelines for more information. Guideline equation: EXP1 = 27.7 * (H ₂ O) + 0.01 * (Mn) + 0.00010. |
| Guideline notes: | | | | | | | | | |
| Mercury (Hg)-Total | mg/L | Varies with methyl mercury | - | - | - | < 0.000005 | < 0.000005 | | Guideline applies to methyl Hg. guideline is equal to 0.032 mg/L. Guideline = 0.032 mg/L + 0.000005 mg/L. |
| Guideline notes: | | | | | | | | | |
| Chromium (Cr)-Methyl | mg/L | 0.0001 | - | - | - | 0.000174 | 0.000174 | | When Methyl Cr guideline is equal to 0.032 mg/L. Guideline = 0.032 mg/L + 0.000005 mg/L. |
| Guideline notes: | | | | | | | | | |
| Nickel (Ni)-Total | mg/L | Varies with hardness | - | - | - | 0.0003 | < 0.00000 | | Working guideline status. Guideline varies with hardness. Refer to BC Water Quality Guidelines for more information. Hardness = 40.1 * 1000. Guideline equation: EXP1 = 27.7 * (H ₂ O) + 0.01 * (Ni) + 0.00003. |
| Guideline notes: | | | | | | | | | |
| Phosphorus (P)-Dissolved | mg/L | 0.005 to 0.015 | - | - | - | < 0.050 | < 0.050 | | Working guideline status. Guideline varies with phosphorus being the dominant fish species. Guideline is for reference only and does not apply to algae. |
| Guideline notes: | | | | | | | | | |
| Potassium (K)-Dissolved | mg/L | - | - | - | - | 0.532 | 0.532 | | Guideline varies with potassium being the dominant fish species. Guideline is for reference only and does not apply to algae. |
| Guideline notes: | | | | | | | | | |
| Calcium (Ca)-Dissolved | mg/L | Categorical, see note | - | - | - | 3.53 | 3.29 | Both locations have high sensitivity to acid inputs (i.e. low buffering capacity). | Guideline varies with other parameters and is calculated using BC BLM software. Detailed model: Temperature, pH, DOC, hard water content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, ammonium, nitrate, nitrite. |
| Guideline notes: | | | | | | | | | |
| Chloride (Cl)-Dissolved | mg/L | - | - | - | - | < 0.00010 | < 0.00010 | | Guideline varies with other parameters and is calculated using BC BLM software. Detailed model: Temperature, pH, DOC, hard water content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, ammonium, nitrate, nitrite. |
| Guideline notes: | | | | | | | | | |
| Copper (Cu)-Dissolved | mg/L | Guideline varies with other parameters, see note | Guideline varies with other parameters, see note | - | - | 0.00088 | 0.00088 | | Guideline calculates using values for parameters above at the specific site on each sampling date. |
| Guideline notes: | | | | | | | | | |
| Lead (Pb)-Dissolved | mg/L | - | - | - | - | 0.0003 | 0.0003 | | Guideline varies with other parameters and is calculated using BC BLM software. Detailed model: Temperature, pH, DOC, hard water content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, ammonium, nitrate, nitrite. |
| Guideline notes: | | | | | | | | | |
| Boron (B)-Dissolved | mg/L | - | - | - | - | 0.0001 | 0.0001 | | Guideline varies with other parameters and is calculated using BC BLM software. Detailed model: Temperature, pH, DOC, hard water content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, ammonium, nitrate, nitrite. |
| Guideline notes: | | | | | | | | | |
| Antimony (Sb)-Dissolved | mg/L | - | - | - | - | 0.0001 | 0.0001 | | Guideline varies with other parameters and is calculated using BC BLM software. Detailed model: Temperature, pH, DOC, hard water content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, ammonium, nitrate, nitrite. |
| Guideline notes: | | | | | | | | | |
| Chromium (Cr)-Dissolved | mg/L | - | - | - | - | 0.0001 | 0.0001 | | Guideline varies with other parameters and is calculated using BC BLM software. Detailed model: Temperature, pH, DOC, hard water content, total calcium, total magnesium, total sodium, total potassium, sulphate, chloride, ammonium, nitrate, nitrite. |
| Guideline notes: | | | | | | | | | |
| Zinc (Zn)-Dissolved | mg/L | Varies with pH, DOC, hardness | Varies with DOC and hardness | - | - | 0.00035 | 0.00014 | Although the weekly upstream location exceeds long-term BKG for FAL when entered in the long-term C average, the downstream location is well below guideline. | Guideline varies with DOC and hardness. Guideline is calculated using the following formula: Guideline = [(EPM)(0.24 * (Zn)) + 0.328] / (2.100). |
| Guideline notes: | | | | | | | | | |
| Sodium (Na)-Dissolved | mg/L | - | - | - | - | 0.0004 | 0.0004 | | Guideline varies with DOC and hardness. Guideline is calculated using the following formula: Guideline = [(EPM)(0.24 * (Na)) + 0.328] / (2.100). |
| Guideline notes: | | | | | | | | | |
| Sulfur (S)-Dissolved | mg/L | - | - | - | - | | | | |

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BCR Site Receiving Environment Lab Documentation

CERTIFICATE OF ANALYSIS

| | | | |
|-------------------------|---|-------------------------|---------------------------------|
| Work Order | : VA24B0570 | Page | : 1 of 6 |
| Client | : Triton Environmental Consultants Ltd. | Laboratory | : ALS Environmental - Vancouver |
| Contact | : [REDACTED] | Account Manager | : [REDACTED] |
| Address | : [REDACTED] | Address | : [REDACTED] |
| Telephone | : [REDACTED] | Telephone | : [REDACTED] |
| Project | : 11964 | Date Samples Received | : 13-May-2024 12:15 |
| PO | : 11964-Task 20-Phase 3C-4C | Date Analysis Commenced | : 14-May-2024 |
| C-O-C number | : ---- | Issue Date | : 23-May-2024 16:17 |
| Sampler | : ---- | | |
| Site | : Water Analysis | | |
| Quote number | : VA23-TRIT100-012_V2 | | |
| No. of samples received | : 2 | | |
| No. of samples analysed | : 2 | | |

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Signatories

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

| Signatories | Position | Laboratory Department |
|-------------|---|---|
| [REDACTED] | Analyst | Metals, Burnaby, British Columbia |
| | Account Manager Assistant | Metals, Burnaby, British Columbia |
| | Supervisor - Metals ICP Instrumentation | Administration, Burnaby, British Columbia |
| | Department Manager - Metals | Metals, Burnaby, British Columbia |
| | Department Manager - Metals | Inorganics, Burnaby, British Columbia |
| | | Metals, Burnaby, British Columbia |
| | | Metals, Burnaby, British Columbia |



General Comments

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

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

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

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

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

| <i>Unit</i> | <i>Description</i> |
|-------------|-----------------------------|
| - | no units |
| °C | degrees celsius |
| µS/cm | microsiemens per centimetre |
| mg/L | milligrams per litre |
| pH units | pH units |

<: less than.

>: greater than.

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

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

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

Qualifiers

| <i>Qualifier</i> | <i>Description</i> |
|------------------|---|
| DLM | <i>Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).</i> |



Analytical Results

| Client sample ID | | | | SQU US 1 | SQU DS 1 | --- | --- | --- | |
|---|------------|-------------------|---------|----------------------|----------------------|---------------|-------|-------|-------|
| Client sampling date / time | | | | 13-May-2024 09:42 | 13-May-2024 10:20 | --- | --- | --- | |
| Analyte | CAS Number | Method/Lab | LOR | Unit | VA24B0570-001 | VA24B0570-002 | ----- | ----- | ----- |
| Field Tests | | | | | | | | | |
| Conductivity, field | --- | EF001/VA | 0.10 | µS/cm | 34.000 | 31.000 | --- | --- | --- |
| pH, field | --- | EF001/VA | 0.10 | pH units | 7.54 | 7.36 | --- | --- | --- |
| Temperature, field | --- | EF001/VA | 0.10 | °C | 9.60 | 9.60 | --- | --- | --- |
| Physical Tests | | | | | | | | | |
| Hardness (as CaCO ₃), dissolved | --- | EC100/VA | 0.60 | mg/L | 10.4 | 9.68 | --- | --- | --- |
| Hardness (as CaCO ₃), from total Ca/Mg | --- | EC100A/VA | 0.60 | mg/L | 11.1 | 11.2 | --- | --- | --- |
| Solids, total dissolved [TDS] | --- | E162/VA | 10 | mg/L | 31 | 28 | --- | --- | --- |
| Solids, total suspended [TSS] | --- | E160/VA | 3.0 | mg/L | 6.6 | 15.8 | --- | --- | --- |
| Alkalinity, total (as CaCO ₃) | --- | E290/VA | 2.0 | mg/L | 9.9 | 9.0 | --- | --- | --- |
| Anions and Nutrients | | | | | | | | | |
| Ammonia, total (as N) | 7664-41-7 | E298/VA | 0.0050 | mg/L | 0.0661 | 0.0376 | --- | --- | --- |
| Bromide | 24959-67-9 | E235.Br-L/VA | 0.050 | mg/L | <0.050 | <0.050 | --- | --- | --- |
| Chloride | 16887-00-6 | E235.Cl/VA | 0.50 | mg/L | 0.64 | 0.61 | --- | --- | --- |
| Fluoride | 16984-48-8 | E235.F/VA | 0.020 | mg/L | <0.020 | <0.020 | --- | --- | --- |
| Nitrate (as N) | 14797-55-8 | E235.NO3-L/V A | 0.0050 | mg/L | 0.0224 | 0.0279 | --- | --- | --- |
| Nitrite (as N) | 14797-65-0 | E235.NO2-L/V A | 0.0010 | mg/L | <0.0010 | <0.0010 | --- | --- | --- |
| Nitrogen, total | 7727-37-9 | E366/VA | 0.030 | mg/L | 0.160 | 0.102 | --- | --- | --- |
| Phosphorus, total | 7723-14-0 | E372-U/VA | 0.0020 | mg/L | 0.0343 | 0.0323 | --- | --- | --- |
| Sulfate (as SO ₄) | 14808-79-8 | E235.SO4/VA | 0.30 | mg/L | 2.37 | 2.29 | --- | --- | --- |
| Organic / Inorganic Carbon | | | | | | | | | |
| Carbon, dissolved organic [DOC] | --- | E358-L/VA | 0.50 | mg/L | 2.44 | 1.96 | --- | --- | --- |
| Total Sulfides | | | | | | | | | |
| Sulfide, total (as S) | 18496-25-8 | E395/VA | 0.0015 | mg/L | <0.0015 | <0.0015 | --- | --- | --- |
| Sulfide, un-ionized (as H ₂ S), from total | 7783-06-4 | EC395/VA | 0.0015 | mg/L | <0.0015 | <0.0015 | --- | --- | --- |
| Sulfide, total (as H ₂ S) | 7783-06-4 | E395/VA | 0.0016 | mg/L | <0.0016 | <0.0016 | --- | --- | --- |
| Total Metals | | | | | | | | | |
| Aluminum, total | 7429-90-5 | E420/VA | 0.0030 | mg/L | 0.680 | 0.947 | --- | --- | --- |
| Antimony, total | 7440-36-0 | E420/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | --- | --- | --- |



Analytical Results

| | | | | | Client sample ID | SQU US 1 | SQU DS 1 | --- | --- | --- |
|---------------------|------------|------------|-----------|------|-----------------------------|----------------------|----------------------|-------|-------|-----|
| | | | | | Client sampling date / time | 13-May-2024 09:42 | 13-May-2024 10:20 | --- | --- | --- |
| Analyte | CAS Number | Method/Lab | LOR | Unit | VA24B0570-001 | VA24B0570-002 | ----- | ----- | ----- | |
| | | | | | Result | Result | --- | --- | --- | |
| Total Metals | | | | | | | | | | |
| Arsenic, total | 7440-38-2 | E420/VA | 0.00010 | mg/L | 0.00016 | 0.00019 | --- | --- | --- | --- |
| Barium, total | 7440-39-3 | E420/VA | 0.00010 | mg/L | 0.00984 | 0.0135 | --- | --- | --- | --- |
| Beryllium, total | 7440-41-7 | E420/VA | 0.000100 | mg/L | <0.000100 | <0.000100 | --- | --- | --- | --- |
| Bismuth, total | 7440-69-9 | E420/VA | 0.000050 | mg/L | <0.000050 | <0.000050 | --- | --- | --- | --- |
| Boron, total | 7440-42-8 | E420/VA | 0.010 | mg/L | <0.010 | <0.010 | --- | --- | --- | --- |
| Cadmium, total | 7440-43-9 | E420/VA | 0.0000050 | mg/L | 0.0000100 | 0.0000085 | --- | --- | --- | --- |
| Calcium, total | 7440-70-2 | E420/VA | 0.050 | mg/L | 3.55 | 3.46 | --- | --- | --- | --- |
| Cesium, total | 7440-46-2 | E420/VA | 0.000010 | mg/L | 0.000023 | 0.000036 | --- | --- | --- | --- |
| Chromium, total | 7440-47-3 | E420/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | --- | --- | --- | --- |
| Cobalt, total | 7440-48-4 | E420/VA | 0.00010 | mg/L | 0.00023 | 0.00036 | --- | --- | --- | --- |
| Copper, total | 7440-50-8 | E420/VA | 0.00050 | mg/L | 0.00184 | 0.00241 | --- | --- | --- | --- |
| Iron, total | 7439-89-6 | E420/VA | 0.010 | mg/L | 0.472 | 0.729 | --- | --- | --- | --- |
| Lead, total | 7439-92-1 | E420/VA | 0.000050 | mg/L | 0.000110 | 0.000124 | --- | --- | --- | --- |
| Lithium, total | 7439-93-2 | E420/VA | 0.0010 | mg/L | <0.0010 | <0.0010 | --- | --- | --- | --- |
| Magnesium, total | 7439-95-4 | E420/VA | 0.0050 | mg/L | 0.548 | 0.625 | --- | --- | --- | --- |
| Manganese, total | 7439-96-5 | E420/VA | 0.00010 | mg/L | 0.0145 | 0.0196 | --- | --- | --- | --- |
| Mercury, total | 7439-97-6 | E508/VA | 0.0000050 | mg/L | <0.0000050 | <0.0000050 | --- | --- | --- | --- |
| Molybdenum, total | 7439-98-7 | E420/VA | 0.000050 | mg/L | 0.000375 | 0.000378 | --- | --- | --- | --- |
| Nickel, total | 7440-02-0 | E420/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | --- | --- | --- | --- |
| Phosphorus, total | 7723-14-0 | E420/VA | 0.050 | mg/L | <0.050 | 0.058 | --- | --- | --- | --- |
| Potassium, total | 7440-09-7 | E420/VA | 0.050 | mg/L | 0.422 | 0.529 | --- | --- | --- | --- |
| Rubidium, total | 7440-17-7 | E420/VA | 0.00020 | mg/L | 0.00078 | 0.00107 | --- | --- | --- | --- |
| Selenium, total | 7782-49-2 | E420/VA | 0.000050 | mg/L | <0.000050 | <0.000050 | --- | --- | --- | --- |
| Silicon, total | 7440-21-3 | E420/VA | 0.10 | mg/L | 3.86 | 4.09 | --- | --- | --- | --- |
| Silver, total | 7440-22-4 | E420/VA | 0.000010 | mg/L | <0.000010 | <0.000010 | --- | --- | --- | --- |
| Sodium, total | 7440-23-5 | E420/VA | 0.050 | mg/L | 1.34 | 1.18 | --- | --- | --- | --- |
| Strontium, total | 7440-24-6 | E420/VA | 0.00020 | mg/L | 0.0245 | 0.0250 | --- | --- | --- | --- |
| Sulfur, total | 7704-34-9 | E420/VA | 0.50 | mg/L | 0.64 | 0.59 | --- | --- | --- | --- |
| Tellurium, total | 13494-80-9 | E420/VA | 0.00020 | mg/L | <0.00020 | <0.00020 | --- | --- | --- | --- |
| Thallium, total | 7440-28-0 | E420/VA | 0.000010 | mg/L | <0.000010 | <0.000010 | --- | --- | --- | --- |



Analytical Results

| Sub-Matrix: Water (Matrix: Water) | | | | | Client sample ID | SQU US 1 | SQU DS 1 | --- | --- | --- |
|--------------------------------------|------------|------------|-----------|------|-----------------------------|-------------------------|----------------------|-------|-------|-------|
| | | | | | Client sampling date / time | 13-May-2024 09:42 | 13-May-2024 10:20 | --- | --- | --- |
| Analyte | CAS Number | Method/Lab | LOR | Unit | VA24B0570-001 | VA24B0570-002 | ----- | ----- | ----- | ----- |
| | | | | | Result | Result | --- | --- | --- | --- |
| Total Metals | | | | | | | | | | |
| Thorium, total | 7440-29-1 | E420/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | --- | --- | --- | --- |
| Tin, total | 7440-31-5 | E420/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | --- | --- | --- | --- |
| Titanium, total | 7440-32-6 | E420/VA | 0.00030 | mg/L | 0.0235 | 0.0429 | --- | --- | --- | --- |
| Tungsten, total | 7440-33-7 | E420/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | --- | --- | --- | --- |
| Uranium, total | 7440-61-1 | E420/VA | 0.000010 | mg/L | 0.000038 | 0.000051 | --- | --- | --- | --- |
| Vanadium, total | 7440-62-2 | E420/VA | 0.00050 | mg/L | 0.00167 | 0.00230 | --- | --- | --- | --- |
| Zinc, total | 7440-66-6 | E420/VA | 0.0030 | mg/L | 0.0051 | 0.0043 | --- | --- | --- | --- |
| Zirconium, total | 7440-67-7 | E420/VA | 0.00020 | mg/L | <0.00040 ^{DLM} | <0.00040 ^{DLM} | --- | --- | --- | --- |
| Dissolved Metals | | | | | | | | | | |
| Aluminum, dissolved | 7429-90-5 | E421/VA | 0.0010 | mg/L | 0.0754 | 0.0678 | --- | --- | --- | --- |
| Antimony, dissolved | 7440-36-0 | E421/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | --- | --- | --- | --- |
| Arsenic, dissolved | 7440-38-2 | E421/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | --- | --- | --- | --- |
| Barium, dissolved | 7440-39-3 | E421/VA | 0.00010 | mg/L | 0.00468 | 0.00458 | --- | --- | --- | --- |
| Beryllium, dissolved | 7440-41-7 | E421/VA | 0.000100 | mg/L | <0.000100 | <0.000100 | --- | --- | --- | --- |
| Bismuth, dissolved | 7440-69-9 | E421/VA | 0.000050 | mg/L | <0.000050 | <0.000050 | --- | --- | --- | --- |
| Boron, dissolved | 7440-42-8 | E421/VA | 0.010 | mg/L | <0.010 | <0.010 | --- | --- | --- | --- |
| Cadmium, dissolved | 7440-43-9 | E421/VA | 0.0000050 | mg/L | 0.0000086 | <0.0000050 | --- | --- | --- | --- |
| Calcium, dissolved | 7440-70-2 | E421/VA | 0.050 | mg/L | 3.53 | 3.29 | --- | --- | --- | --- |
| Cesium, dissolved | 7440-46-2 | E421/VA | 0.000010 | mg/L | <0.000010 | <0.000010 | --- | --- | --- | --- |
| Chromium, dissolved | 7440-47-3 | E421/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | --- | --- | --- | --- |
| Cobalt, dissolved | 7440-48-4 | E421/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | --- | --- | --- | --- |
| Copper, dissolved | 7440-50-8 | E421/VA | 0.00020 | mg/L | 0.00086 | 0.00078 | --- | --- | --- | --- |
| Iron, dissolved | 7439-89-6 | E421/VA | 0.010 | mg/L | 0.033 | 0.034 | --- | --- | --- | --- |
| Lead, dissolved | 7439-92-1 | E421/VA | 0.000050 | mg/L | <0.000050 | <0.000050 | --- | --- | --- | --- |
| Lithium, dissolved | 7439-93-2 | E421/VA | 0.0010 | mg/L | <0.0010 | <0.0010 | --- | --- | --- | --- |
| Magnesium, dissolved | 7439-95-4 | E421/VA | 0.0050 | mg/L | 0.381 | 0.357 | --- | --- | --- | --- |
| Manganese, dissolved | 7439-96-5 | E421/VA | 0.00010 | mg/L | 0.00300 | 0.00289 | --- | --- | --- | --- |
| Mercury, dissolved | 7439-97-6 | E509/VA | 0.0000050 | mg/L | <0.0000050 | <0.0000050 | --- | --- | --- | --- |
| Molybdenum, dissolved | 7439-98-7 | E421/VA | 0.000050 | mg/L | 0.000362 | 0.000360 | --- | --- | --- | --- |
| Nickel, dissolved | 7440-02-0 | E421/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | --- | --- | --- | --- |



Analytical Results

| | | | | | Client sample ID | SQU US 1 | SQU DS 1 | --- | --- | --- |
|---------------------------------------|------------|------------|----------|--------|-----------------------------|----------------------|----------------------|-------|-------|-----|
| | | | | | Client sampling date / time | 13-May-2024 09:42 | 13-May-2024 10:20 | --- | --- | --- |
| Analyte | CAS Number | Method/Lab | LOR | Unit | VA24B0570-001 | VA24B0570-002 | ----- | ----- | ----- | |
| | | | | Result | | Result | --- | --- | --- | |
| Dissolved Metals | | | | | | | | | | |
| Phosphorus, dissolved | 7723-14-0 | E421/VA | 0.050 | mg/L | <0.050 | <0.050 | --- | --- | --- | --- |
| Potassium, dissolved | 7440-09-7 | E421/VA | 0.050 | mg/L | 0.352 | 0.363 | --- | --- | --- | --- |
| Rubidium, dissolved | 7440-17-7 | E421/VA | 0.00020 | mg/L | 0.00049 | 0.00048 | --- | --- | --- | --- |
| Selenium, dissolved | 7782-49-2 | E421/VA | 0.000050 | mg/L | <0.000050 | <0.000050 | --- | --- | --- | --- |
| Silicon, dissolved | 7440-21-3 | E421/VA | 0.050 | mg/L | 2.84 | 2.54 | --- | --- | --- | --- |
| Silver, dissolved | 7440-22-4 | E421/VA | 0.000010 | mg/L | <0.000010 | <0.000010 | --- | --- | --- | --- |
| Sodium, dissolved | 7440-23-5 | E421/VA | 0.050 | mg/L | 1.14 | 1.06 | --- | --- | --- | --- |
| Strontium, dissolved | 7440-24-6 | E421/VA | 0.00020 | mg/L | 0.0208 | 0.0197 | --- | --- | --- | --- |
| Sulfur, dissolved | 7704-34-9 | E421/VA | 0.50 | mg/L | 0.74 | 0.61 | --- | --- | --- | --- |
| Tellurium, dissolved | 13494-80-9 | E421/VA | 0.00020 | mg/L | <0.00020 | <0.00020 | --- | --- | --- | --- |
| Thallium, dissolved | 7440-28-0 | E421/VA | 0.000010 | mg/L | <0.000010 | <0.000010 | --- | --- | --- | --- |
| Thorium, dissolved | 7440-29-1 | E421/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | --- | --- | --- | --- |
| Tin, dissolved | 7440-31-5 | E421/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | --- | --- | --- | --- |
| Titanium, dissolved | 7440-32-6 | E421/VA | 0.00030 | mg/L | 0.00098 | 0.00094 | --- | --- | --- | --- |
| Tungsten, dissolved | 7440-33-7 | E421/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | --- | --- | --- | --- |
| Uranium, dissolved | 7440-61-1 | E421/VA | 0.000010 | mg/L | 0.000030 | 0.000031 | --- | --- | --- | --- |
| Vanadium, dissolved | 7440-62-2 | E421/VA | 0.00050 | mg/L | 0.00083 | 0.00075 | --- | --- | --- | --- |
| Zinc, dissolved | 7440-66-6 | E421/VA | 0.0010 | mg/L | 0.0035 | 0.0014 | --- | --- | --- | --- |
| Zirconium, dissolved | 7440-67-7 | E421/VA | 0.00020 | mg/L | <0.00020 | <0.00020 | --- | --- | --- | --- |
| Dissolved mercury filtration location | ---- | EP509/VA | - | - | Field | Field | --- | --- | --- | --- |
| Dissolved metals filtration location | ---- | EP421/VA | - | - | Field | Field | --- | --- | --- | --- |
| Speciated Metals | | | | | | | | | | |
| Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | --- | --- | --- | --- |
| Chromium, trivalent [Cr III], total | 16065-83-1 | EC535/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | --- | --- | --- | --- |

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

Please refer to the Accreditation section for an explanation of analyte accreditations.

QUALITY CONTROL INTERPRETIVE REPORT

| | | | |
|-------------------------|---|-----------------------|---------------------------------|
| Work Order | : VA24B0570 | Page | : 1 of 14 |
| Client | : Triton Environmental Consultants Ltd. | Laboratory | : ALS Environmental - Vancouver |
| Contact | | Account Manager | |
| Address | | Address | |
| Telephone | | Telephone | |
| Project | : 11964 | Date Samples Received | : 13-May-2024 12:15 |
| PO | : 11964-Task 20-Phase 3C-4C | Issue Date | : 23-May-2024 16:18 |
| C-O-C number | : ---- | | |
| Sampler | : ---- | | |
| Site | : Water Analysis | | |
| Quote number | : VA23-TRIT100-012_V2 | | |
| No. of samples received | : 2 | | |
| No. of samples analysed | : 2 | | |

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.



Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and/or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: Water Evaluation: ✗ = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method | Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation | | | | Analysis | | |
|--|---------------------------------|-----------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|
| | | | | Preparation Date | Holding Times | | Eval | Analysis Date | Holding Times | |
| | | | | | Rec | Actual | | | Rec | Actual |
| Anions and Nutrients : Ammonia by Fluorescence | | | | | | | | | | |
| Amber glass total (sulfuric acid) SQU DS 1 | | E298 | 13-May-2024 | 20-May-2024 | 28 days | 7 days | ✓ | 21-May-2024 | 28 days | 8 days |
| Anions and Nutrients : Ammonia by Fluorescence | | | | | | | | | | |
| Amber glass total (sulfuric acid) SQU US 1 | | E298 | 13-May-2024 | 20-May-2024 | 28 days | 7 days | ✓ | 21-May-2024 | 28 days | 8 days |
| Anions and Nutrients : Bromide in Water by IC (Low Level) | | | | | | | | | | |
| HDPE SQU DS 1 | | E235.Br-L | 13-May-2024 | 16-May-2024 | 28 days | 3 days | ✓ | 16-May-2024 | 28 days | 3 days |
| Anions and Nutrients : Bromide in Water by IC (Low Level) | | | | | | | | | | |
| HDPE SQU US 1 | | E235.Br-L | 13-May-2024 | 16-May-2024 | 28 days | 3 days | ✓ | 16-May-2024 | 28 days | 3 days |
| Anions and Nutrients : Chloride in Water by IC | | | | | | | | | | |
| HDPE SQU DS 1 | | E235.Cl | 13-May-2024 | 16-May-2024 | 28 days | 3 days | ✓ | 16-May-2024 | 28 days | 3 days |
| Anions and Nutrients : Chloride in Water by IC | | | | | | | | | | |
| HDPE SQU US 1 | | E235.Cl | 13-May-2024 | 16-May-2024 | 28 days | 3 days | ✓ | 16-May-2024 | 28 days | 3 days |
| Anions and Nutrients : Fluoride in Water by IC | | | | | | | | | | |
| HDPE SQU DS 1 | | E235.F | 13-May-2024 | 16-May-2024 | 28 days | 3 days | ✓ | 16-May-2024 | 28 days | 3 days |



Matrix: Water Evaluation: ✘ = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method | Method | Sampling Date | Extraction / Preparation | | | | Analysis | | | |
|--|------------|---------------|--------------------------|---------------|--------|---------------|---------------|---------|--------|---|
| | | | Preparation Date | Holding Times | Eval | Analysis Date | Holding Times | Eval | | |
| Container / Client Sample ID(s) | | | | Rec | | Rec | Actual | Rec | Actual | |
| Anions and Nutrients : Fluoride in Water by IC | | | | | | | | | | |
| HDPE SQU US 1 | E235.F | 13-May-2024 | 16-May-2024 | 28 days | 3 days | ✓ | 16-May-2024 | 28 days | 3 days | ✓ |
| Anions and Nutrients : Nitrate in Water by IC (Low Level) | | | | | | | | | | |
| HDPE SQU DS 1 | E235.NO3-L | 13-May-2024 | 16-May-2024 | 3 days | 3 days | ✓ | 16-May-2024 | 3 days | 3 days | ✓ |
| Anions and Nutrients : Nitrate in Water by IC (Low Level) | | | | | | | | | | |
| HDPE SQU US 1 | E235.NO3-L | 13-May-2024 | 16-May-2024 | 3 days | 3 days | ✓ | 16-May-2024 | 3 days | 3 days | ✓ |
| Anions and Nutrients : Nitrite in Water by IC (Low Level) | | | | | | | | | | |
| HDPE SQU DS 1 | E235.NO2-L | 13-May-2024 | 16-May-2024 | 3 days | 3 days | ✓ | 16-May-2024 | 3 days | 3 days | ✓ |
| Anions and Nutrients : Nitrite in Water by IC (Low Level) | | | | | | | | | | |
| HDPE SQU US 1 | E235.NO2-L | 13-May-2024 | 16-May-2024 | 3 days | 3 days | ✓ | 16-May-2024 | 3 days | 3 days | ✓ |
| Anions and Nutrients : Sulfate in Water by IC | | | | | | | | | | |
| HDPE SQU DS 1 | E235.SO4 | 13-May-2024 | 16-May-2024 | 28 days | 3 days | ✓ | 16-May-2024 | 28 days | 3 days | ✓ |
| Anions and Nutrients : Sulfate in Water by IC | | | | | | | | | | |
| HDPE SQU US 1 | E235.SO4 | 13-May-2024 | 16-May-2024 | 28 days | 3 days | ✓ | 16-May-2024 | 28 days | 3 days | ✓ |
| Anions and Nutrients : Total Nitrogen by Colourimetry | | | | | | | | | | |
| Amber glass total (sulfuric acid) SQU DS 1 | E366 | 13-May-2024 | 20-May-2024 | 28 days | 7 days | ✓ | 22-May-2024 | 28 days | 9 days | ✓ |
| Anions and Nutrients : Total Nitrogen by Colourimetry | | | | | | | | | | |
| Amber glass total (sulfuric acid) SQU US 1 | E366 | 13-May-2024 | 20-May-2024 | 28 days | 7 days | ✓ | 22-May-2024 | 28 days | 9 days | ✓ |



Matrix: Water Evaluation: ✗ = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method | Method | Sampling Date | Extraction / Preparation | | | | Analysis | | | |
|---|--------|---------------|--------------------------|-------------------|----------------------|------|---------------|-------------------|----------------------|------|
| | | | Preparation Date | Holding Times Rec | Holding Times Actual | Eval | Analysis Date | Holding Times Rec | Holding Times Actual | Eval |
| Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L) | | | | | | | | | | |
| Amber glass total (sulfuric acid) SQU DS 1 | E372-U | 13-May-2024 | 20-May-2024 | 28 days | 7 days | ✓ | 22-May-2024 | 28 days | 9 days | ✓ |
| Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L) | | | | | | | | | | |
| Amber glass total (sulfuric acid) SQU US 1 | E372-U | 13-May-2024 | 20-May-2024 | 28 days | 7 days | ✓ | 22-May-2024 | 28 days | 9 days | ✓ |
| Dissolved Metals : Dissolved Mercury in Water by CVAAS | | | | | | | | | | |
| Glass vial - dissolved (lab preserved) SQU DS 1 | E509 | 13-May-2024 | 16-May-2024 | 28 days | 3 days | ✓ | 16-May-2024 | 28 days | 3 days | ✓ |
| Dissolved Metals : Dissolved Mercury in Water by CVAAS | | | | | | | | | | |
| Glass vial - dissolved (lab preserved) SQU US 1 | E509 | 13-May-2024 | 16-May-2024 | 28 days | 3 days | ✓ | 16-May-2024 | 28 days | 3 days | ✓ |
| Dissolved Metals : Dissolved Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - dissolved (lab preserved) SQU DS 1 | E421 | 13-May-2024 | 14-May-2024 | 180 days | 1 days | ✓ | 15-May-2024 | 180 days | 2 days | ✓ |
| Dissolved Metals : Dissolved Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - dissolved (lab preserved) SQU US 1 | E421 | 13-May-2024 | 14-May-2024 | 180 days | 1 days | ✓ | 15-May-2024 | 180 days | 2 days | ✓ |
| Field Tests : Field pH,EC,Salinity,Cl₂,ClO₂,ORP,DO, Turbidity,T,T-P,o-PO₄,NH₃,Chloramine | | | | | | | | | | |
| Glass vial - total (lab preserved) SQU DS 1 | EF001 | 13-May-2024 | ---- | --- | ---- | | 14-May-2024 | ---- | 1 days | |
| Field Tests : Field pH,EC,Salinity,Cl₂,ClO₂,ORP,DO, Turbidity,T,T-P,o-PO₄,NH₃,Chloramine | | | | | | | | | | |
| Glass vial - total (lab preserved) SQU US 1 | EF001 | 13-May-2024 | ---- | --- | ---- | | 14-May-2024 | ---- | 1 days | |
| Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level) | | | | | | | | | | |
| Amber glass dissolved (sulfuric acid) SQU DS 1 | E358-L | 13-May-2024 | 20-May-2024 | 28 days | 7 days | ✓ | 21-May-2024 | 28 days | 8 days | ✓ |



Matrix: Water Evaluation: ✗ = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method | Method | Sampling Date | Extraction / Preparation | | | Eval | Analysis | | | |
|--|--------|---------------|--------------------------|-------------------|----------------------|------|---------------|-------------------|----------------------|---|
| | | | Preparation Date | Holding Times Rec | Holding Times Actual | | Analysis Date | Holding Times Rec | Holding Times Actual | |
| Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level) | | | | | | | | | | |
| Amber glass dissolved (sulfuric acid) SQU US 1 | E358-L | 13-May-2024 | 20-May-2024 | 28 days | 7 days | ✓ | 21-May-2024 | 28 days | 8 days | ✓ |
| Physical Tests : Alkalinity Species by Titration | | | | | | | | | | |
| HDPE SQU DS 1 | E290 | 13-May-2024 | 17-May-2024 | 14 days | 4 days | ✓ | 17-May-2024 | 14 days | 4 days | ✓ |
| Physical Tests : Alkalinity Species by Titration | | | | | | | | | | |
| HDPE SQU US 1 | E290 | 13-May-2024 | 17-May-2024 | 14 days | 4 days | ✓ | 17-May-2024 | 14 days | 4 days | ✓ |
| Physical Tests : TDS by Gravimetry | | | | | | | | | | |
| HDPE SQU DS 1 | E162 | 13-May-2024 | --- | --- | --- | | 18-May-2024 | 7 days | 5 days | ✓ |
| Physical Tests : TDS by Gravimetry | | | | | | | | | | |
| HDPE SQU US 1 | E162 | 13-May-2024 | --- | --- | --- | | 18-May-2024 | 7 days | 5 days | ✓ |
| Physical Tests : TSS by Gravimetry | | | | | | | | | | |
| HDPE SQU DS 1 | E160 | 13-May-2024 | --- | --- | --- | | 18-May-2024 | 7 days | 5 days | ✓ |
| Physical Tests : TSS by Gravimetry | | | | | | | | | | |
| HDPE SQU US 1 | E160 | 13-May-2024 | --- | --- | --- | | 18-May-2024 | 7 days | 5 days | ✓ |
| Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC | | | | | | | | | | |
| UV-inhibited HDPE - total (sodium hydroxide) SQU DS 1 | E532 | 13-May-2024 | --- | --- | --- | | 16-May-2024 | 28 days | 3 days | ✓ |
| Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC | | | | | | | | | | |
| UV-inhibited HDPE - total (sodium hydroxide) SQU US 1 | E532 | 13-May-2024 | --- | --- | --- | | 16-May-2024 | 28 days | 3 days | ✓ |



Matrix: Water Evaluation: ✗ = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method | Method | Sampling Date | Extraction / Preparation | | | Eval | Analysis | | |
|--|--------|---------------|--------------------------|-------------------|----------------------|------|---------------|-------------------|----------------------|
| | | | Preparation Date | Holding Times Rec | Holding Times Actual | | Analysis Date | Holding Times Rec | Holding Times Actual |
| Total Metals : Total Mercury in Water by CVAAS | | | | | | | | | |
| Glass vial - total (lab preserved) SQU DS 1 | E508 | 13-May-2024 | 15-May-2024 | 28 days | 2 days | ✓ | 15-May-2024 | 28 days | 2 days |
| Total Metals : Total Mercury in Water by CVAAS | | | | | | | | | |
| Glass vial - total (lab preserved) SQU US 1 | E508 | 13-May-2024 | 15-May-2024 | 28 days | 2 days | ✓ | 15-May-2024 | 28 days | 2 days |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | |
| HDPE - total (lab preserved) SQU DS 1 | E420 | 13-May-2024 | 14-May-2024 | 180 days | 1 days | ✓ | 15-May-2024 | 180 days | 2 days |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | |
| HDPE - total (lab preserved) SQU US 1 | E420 | 13-May-2024 | 14-May-2024 | 180 days | 1 days | ✓ | 15-May-2024 | 180 days | 2 days |
| Total Sulfides : Total Sulfide by Colourimetry (Automated Flow) | | | | | | | | | |
| HDPE total (zinc acetate+sodium hydroxide) SQU DS 1 | E395 | 13-May-2024 | ---- | ---- | ---- | | 17-May-2024 | 7 days | 4 days |
| Total Sulfides : Total Sulfide by Colourimetry (Automated Flow) | | | | | | | | | |
| HDPE total (zinc acetate+sodium hydroxide) SQU US 1 | E395 | 13-May-2024 | ---- | ---- | ---- | | 17-May-2024 | 7 days | 4 days |

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Water

Evaluation: ✘ = QC frequency outside specification; ✓ = QC frequency within specification.

| Quality Control Sample Type | Analytical Methods | Method | QC Lot # | Count | | Frequency (%) | | |
|--|--------------------|------------|----------|-------|---------|---------------|----------|------------|
| | | | | QC | Regular | Actual | Expected | Evaluation |
| Laboratory Duplicates (DUP) | | | | | | | | |
| Alkalinity Species by Titration | | E290 | 1445103 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Ammonia by Fluorescence | | E298 | 1450676 | 1 | 7 | 14.2 | 5.0 | ✓ |
| Bromide in Water by IC (Low Level) | | E235.Br-L | 1445100 | 1 | 10 | 10.0 | 5.0 | ✓ |
| Chloride in Water by IC | | E235.Cl | 1445096 | 1 | 14 | 7.1 | 5.0 | ✓ |
| Dissolved Mercury in Water by CVAAS | | E509 | 1445296 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Dissolved Metals in Water by CRC ICPMS | | E421 | 1441446 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Dissolved Organic Carbon by Combustion (Low Level) | | E358-L | 1450680 | 1 | 5 | 20.0 | 5.0 | ✓ |
| Fluoride in Water by IC | | E235.F | 1445099 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Nitrate in Water by IC (Low Level) | | E235.NO3-L | 1445097 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Nitrite in Water by IC (Low Level) | | E235.NO2-L | 1445098 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Sulfate in Water by IC | | E235.SO4 | 1445095 | 1 | 12 | 8.3 | 5.0 | ✓ |
| TDS by Gravimetry | | E162 | 1449542 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Total Hexavalent Chromium (Cr VI) by IC | | E532 | 1447077 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Total Mercury in Water by CVAAS | | E508 | 1444787 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Total Metals in Water by CRC ICPMS | | E420 | 1441500 | 1 | 18 | 5.5 | 5.0 | ✓ |
| Total Nitrogen by Colourimetry | | E366 | 1450675 | 1 | 6 | 16.6 | 5.0 | ✓ |
| Total Phosphorus by Colourimetry (0.002 mg/L) | | E372-U | 1450677 | 1 | 6 | 16.6 | 5.0 | ✓ |
| Total Sulfide by Colourimetry (Automated Flow) | | E395 | 1447663 | 1 | 14 | 7.1 | 5.0 | ✓ |
| TSS by Gravimetry | | E160 | 1449532 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Laboratory Control Samples (LCS) | | | | | | | | |
| Alkalinity Species by Titration | | E290 | 1445103 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Ammonia by Fluorescence | | E298 | 1450676 | 1 | 7 | 14.2 | 5.0 | ✓ |
| Bromide in Water by IC (Low Level) | | E235.Br-L | 1445100 | 1 | 10 | 10.0 | 5.0 | ✓ |
| Chloride in Water by IC | | E235.Cl | 1445096 | 1 | 14 | 7.1 | 5.0 | ✓ |
| Dissolved Mercury in Water by CVAAS | | E509 | 1445296 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Dissolved Metals in Water by CRC ICPMS | | E421 | 1441446 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Dissolved Organic Carbon by Combustion (Low Level) | | E358-L | 1450680 | 1 | 5 | 20.0 | 5.0 | ✓ |
| Fluoride in Water by IC | | E235.F | 1445099 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Nitrate in Water by IC (Low Level) | | E235.NO3-L | 1445097 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Nitrite in Water by IC (Low Level) | | E235.NO2-L | 1445098 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Sulfate in Water by IC | | E235.SO4 | 1445095 | 1 | 12 | 8.3 | 5.0 | ✓ |
| TDS by Gravimetry | | E162 | 1449542 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Total Hexavalent Chromium (Cr VI) by IC | | E532 | 1447077 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Total Mercury in Water by CVAAS | | E508 | 1444787 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Total Metals in Water by CRC ICPMS | | E420 | 1441500 | 1 | 18 | 5.5 | 5.0 | ✓ |
| Total Nitrogen by Colourimetry | | E366 | 1450675 | 1 | 6 | 16.6 | 5.0 | ✓ |



Matrix: Water

Evaluation: ✗ = QC frequency outside specification; ✓ = QC frequency within specification.

| Quality Control Sample Type | Analytical Methods | Method | QC Lot # | Count | | Frequency (%) | |
|---|--------------------|------------|----------|-------|---------|---------------|----------|
| | | | | QC | Regular | Actual | Expected |
| Laboratory Control Samples (LCS) - Continued | | | | | | | |
| Total Phosphorus by Colourimetry (0.002 mg/L) | | E372-U | 1450677 | 1 | 6 | 16.6 | 5.0 |
| Total Sulfide by Colourimetry (Automated Flow) | | E395 | 1447663 | 1 | 14 | 7.1 | 5.0 |
| TSS by Gravimetry | | E160 | 1449532 | 1 | 20 | 5.0 | 5.0 |
| Method Blanks (MB) | | | | | | | |
| Alkalinity Species by Titration | | E290 | 1445103 | 1 | 12 | 8.3 | 5.0 |
| Ammonia by Fluorescence | | E298 | 1450676 | 1 | 7 | 14.2 | 5.0 |
| Bromide in Water by IC (Low Level) | | E235.Br-L | 1445100 | 1 | 10 | 10.0 | 5.0 |
| Chloride in Water by IC | | E235.Cl | 1445096 | 1 | 14 | 7.1 | 5.0 |
| Dissolved Mercury in Water by CVAAS | | E509 | 1445296 | 1 | 8 | 12.5 | 5.0 |
| Dissolved Metals in Water by CRC ICPMS | | E421 | 1441446 | 1 | 20 | 5.0 | 5.0 |
| Dissolved Organic Carbon by Combustion (Low Level) | | E358-L | 1450680 | 1 | 5 | 20.0 | 5.0 |
| Fluoride in Water by IC | | E235.F | 1445099 | 1 | 12 | 8.3 | 5.0 |
| Nitrate in Water by IC (Low Level) | | E235.NO3-L | 1445097 | 1 | 15 | 6.6 | 5.0 |
| Nitrite in Water by IC (Low Level) | | E235.NO2-L | 1445098 | 1 | 15 | 6.6 | 5.0 |
| Sulfate in Water by IC | | E235.SO4 | 1445095 | 1 | 12 | 8.3 | 5.0 |
| TDS by Gravimetry | | E162 | 1449542 | 1 | 20 | 5.0 | 5.0 |
| Total Hexavalent Chromium (Cr VI) by IC | | E532 | 1447077 | 1 | 12 | 8.3 | 5.0 |
| Total Mercury in Water by CVAAS | | E508 | 1444787 | 1 | 12 | 8.3 | 5.0 |
| Total Metals in Water by CRC ICPMS | | E420 | 1441500 | 1 | 18 | 5.5 | 5.0 |
| Total Nitrogen by Colourimetry | | E366 | 1450675 | 1 | 6 | 16.6 | 5.0 |
| Total Phosphorus by Colourimetry (0.002 mg/L) | | E372-U | 1450677 | 1 | 6 | 16.6 | 5.0 |
| Total Sulfide by Colourimetry (Automated Flow) | | E395 | 1447663 | 1 | 14 | 7.1 | 5.0 |
| TSS by Gravimetry | | E160 | 1449532 | 1 | 20 | 5.0 | 5.0 |
| Matrix Spikes (MS) | | | | | | | |
| Ammonia by Fluorescence | | E298 | 1450676 | 1 | 7 | 14.2 | 5.0 |
| Bromide in Water by IC (Low Level) | | E235.Br-L | 1445100 | 1 | 10 | 10.0 | 5.0 |
| Chloride in Water by IC | | E235.Cl | 1445096 | 1 | 14 | 7.1 | 5.0 |
| Dissolved Mercury in Water by CVAAS | | E509 | 1445296 | 1 | 8 | 12.5 | 5.0 |
| Dissolved Metals in Water by CRC ICPMS | | E421 | 1441446 | 1 | 20 | 5.0 | 5.0 |
| Dissolved Organic Carbon by Combustion (Low Level) | | E358-L | 1450680 | 1 | 5 | 20.0 | 5.0 |
| Fluoride in Water by IC | | E235.F | 1445099 | 1 | 12 | 8.3 | 5.0 |
| Nitrate in Water by IC (Low Level) | | E235.NO3-L | 1445097 | 1 | 15 | 6.6 | 5.0 |
| Nitrite in Water by IC (Low Level) | | E235.NO2-L | 1445098 | 1 | 15 | 6.6 | 5.0 |
| Sulfate in Water by IC | | E235.SO4 | 1445095 | 1 | 12 | 8.3 | 5.0 |
| Total Hexavalent Chromium (Cr VI) by IC | | E532 | 1447077 | 1 | 12 | 8.3 | 5.0 |
| Total Mercury in Water by CVAAS | | E508 | 1444787 | 1 | 12 | 8.3 | 5.0 |
| Total Metals in Water by CRC ICPMS | | E420 | 1441500 | 1 | 18 | 5.5 | 5.0 |
| Total Nitrogen by Colourimetry | | E366 | 1450675 | 1 | 6 | 16.6 | 5.0 |
| Total Phosphorus by Colourimetry (0.002 mg/L) | | E372-U | 1450677 | 1 | 6 | 16.6 | 5.0 |



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Client : Triton Environmental Consultants Ltd.
Project : 11964

| Matrix: Water | | | | | | | Evaluation: ✘ = QC frequency outside specification; ✓ = QC frequency within specification. | | |
|--|--|--------|----------|----|---------------|--------|--|------------|--|
| Quality Control Sample Type | | | Count | | Frequency (%) | | | | |
| Analytical Methods | | Method | QC Lot # | QC | Regular | Actual | Expected | Evaluation | |
| Matrix Spikes (MS) - Continued | | | | | | | | | |
| Total Sulfide by Colourimetry (Automated Flow) | | E395 | 1447663 | 1 | 14 | 7.1 | 5.0 | ✓ | |



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|------------------------------------|---|---------------|-------------------------|---|
| TSS by Gravimetry | E160 ALS Environmental - Vancouver | Water | APHA 2540 D (mod) | Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at $104 \pm 1^\circ\text{C}$, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples. |
| TDS by Gravimetry | E162 ALS Environmental - Vancouver | Water | APHA 2540 C (mod) | Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at $180 \pm 2^\circ\text{C}$ for 16 hours or to constant weight, with gravimetric measurement of the residue. |
| Bromide in Water by IC (Low Level) | E235.Br-L ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Chloride in Water by IC | E235.Cl ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Fluoride in Water by IC | E235.F ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Nitrite in Water by IC (Low Level) | E235.NO2-L ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Nitrate in Water by IC (Low Level) | E235.NO3-L ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Sulfate in Water by IC | E235.SO4 ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Alkalinity Species by Titration | E290 ALS Environmental - Vancouver | Water | APHA 2320 B (mod) | Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. |



| Analytical Methods | | | | |
|--|---|--------|--|--|
| | Method / Lab | Matrix | Method Reference | Method Descriptions |
| Ammonia by Fluorescence | E298 ALS Environmental - Vancouver | Water | Method Fialab 100, 2018 | Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021) |
| Dissolved Organic Carbon by Combustion (Low Level) | E358-L ALS Environmental - Vancouver | Water | APHA 5310 B (mod) | Dissolved Organic Carbon (Non-Purgeable), also known as NPOC (dissolved), is a direct measurement of DOC after a filtered (0.45 micron) sample has been acidified and purged to remove inorganic carbon (IC). Analysis is by high temperature combustion with infrared detection of CO ₂ . NPOC does not include volatile organic species that are purged off with IC. For samples where the majority of DC (dissolved carbon) is comprised of IC (which is common), this method is more accurate and more reliable than the DOC by subtraction method (i.e. DC minus DIC). |
| Total Nitrogen by Colourimetry | E366 ALS Environmental - Vancouver | Water | Chinchilla Scientific Nitrate Method, 2011 | Following digestion, total nitrogen is determined colourimetrically using a discrete analyzer utilizing the vanadium chloride reduction method. This method of analysis is approved under US EPA 40 CFR Part 136 (May 2021). |
| Total Phosphorus by Colourimetry (0.002 mg/L) | E372-U ALS Environmental - Vancouver | Water | APHA 4500-P E (mod.) | Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample. |
| Total Sulfide by Colourimetry (Automated Flow) | E395 ALS Environmental - Vancouver | Water | APHA 4500 -S E-Auto-Colorimetry | Sulfide is determined using the gas dialysis automated methylene blue colourimetric method. Results expressed "as H ₂ S" if reported represent the maximum possible H ₂ S concentration based on the total sulfide concentration in the sample. The H ₂ S calculation converts Total Sulphide as (S ²⁻) and reports it as Total Sulphide as (H ₂ S) |
| Total Metals in Water by CRC ICPMS | E420 ALS Environmental - Vancouver | Water | EPA 200.2/6020B (mod) | <p>Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS.</p> <p>Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.</p> |
| Dissolved Metals in Water by CRC ICPMS | E421 ALS Environmental - Vancouver | Water | APHA 3030B/EPA 6020B (mod) | <p>Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS.</p> <p>Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.</p> |
| Total Mercury in Water by CVAAS | E508 ALS Environmental - Vancouver | Water | EPA 1631E (mod) | Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS |
| Dissolved Mercury in Water by CVAAS | E509 ALS Environmental - Vancouver | Water | APHA 3030B/EPA 1631E (mod) | Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS. |



| Analytical Methods | | Method / Lab | Matrix | Method Reference | Method Descriptions |
|--|--|---|--------|-------------------------------------|---|
| Total Hexavalent Chromium (Cr VI) by IC | | E532 ALS Environmental - Vancouver | Water | APHA 3500-Cr C (Ion Chromatography) | <p>Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection.</p> <p>Results are based on an un-filtered, field-preserved sample.</p> |
| Dissolved Hardness (Calculated) | | EC100 ALS Environmental - Vancouver | Water | APHA 2340B | "Hardness (as CaCO ₃ , dissolved)" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations. |
| Hardness (Calculated) from Total Ca/Mg | | EC100A ALS Environmental - Vancouver | Water | APHA 2340B | "Hardness (as CaCO ₃ , from total Ca/Mg)" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations. Hardness from total Ca/Mg is normally comparable to Dissolved Hardness in non-turbid waters. |
| Un-ionized Total Hydrogen Sulfide (calculated) | | EC395 ALS Environmental - Vancouver | Water | APHA 4500 -S H | Un-ionized sulfide is calculated using results from total sulfide analysis, pH, temperature, and ionic strength of the sample. Calculation of un-ionized sulfide using total sulfide concentrations may be biased high due to particulate forms of sulfide measured during total sulfide testing. |
| Total Trivalent Chromium (Cr III) by Calculation | | EC535 ALS Environmental - Vancouver | Water | APHA 3030B/6020A/EPA 7196A (mod) | Chromium (III)-Total is calculated as the difference between the total chromium and the total hexavalent chromium (Cr(VI)) results. The Limit of Reporting for Chromium (III) varies as a function of the test results. |
| Field pH,EC,Salinity,Cl ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ ,Chloramine | | EF001 ALS Environmental - Vancouver | Water | Field Measurement (Client Supplied) | Field pH,EC,Salinity,Cl ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ or Chloramine measurements provided by client and recorded on ALS report may affect the validity of results. |

| Preparation Methods | | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---|--|--|--------|----------------------|--|
| Preparation for Ammonia | | EP298 ALS Environmental - Vancouver | Water | | Sample preparation for Preserved Nutrients Water Quality Analysis. |
| Preparation for Dissolved Organic Carbon for Combustion | | EP358 ALS Environmental - Vancouver | Water | APHA 5310 B (mod) | Preparation for Dissolved Organic Carbon |
| Digestion for Total Nitrogen in water | | EP366 ALS Environmental - Vancouver | Water | APHA 4500-P J (mod) | Samples for total nitrogen analysis are digested using a heated persulfate digestion. Nitrogen compounds are converted to nitrate in this digestion. |
| Digestion for Total Phosphorus in water | | EP372 ALS Environmental - Vancouver | Water | APHA 4500-P E (mod). | Samples are heated with a persulfate digestion reagent. |



| Preparation Methods | | Method / Lab | Matrix | Method Reference | Method Descriptions |
|------------------------------------|--|--|--------|------------------|--|
| Dissolved Metals Water Filtration | | EP421 ALS Environmental - Vancouver | Water | APHA 3030B | Water samples are filtered (0.45 um), and preserved with HNO3. |
| Dissolved Mercury Water Filtration | | EP509 ALS Environmental - Vancouver | Water | APHA 3030B | Water samples are filtered (0.45 um), and preserved with HCl. |

QUALITY CONTROL REPORT

| | | | |
|-------------------------|---|-------------------------|---------------------------------|
| Work Order | : VA24B0570 | Page | : 1 of 17 |
| Client | : Triton Environmental Consultants Ltd. | Laboratory | : ALS Environmental - Vancouver |
| Contact | | Account Manager | |
| Address | | Address | |
| Telephone | | Telephone | |
| Project | : 11964 | Date Samples Received | : 13-May-2024 12:15 |
| PO | : 11964-Task 20-Phase 3C-4C | Date Analysis Commenced | : 14-May-2024 |
| C-O-C number | : ---- | Issue Date | : 23-May-2024 16:18 |
| Sampler | : ---- | | |
| Site | : Water Analysis | | |
| Quote number | : VA23-TRIT100-012 _V2 | | |
| No. of samples received | : 2 | | |
| No. of samples analysed | : 2 | | |

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

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

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

| Signatories | Position | Laboratory Department |
|-------------|---|---|
| | Analyst | Vancouver Metals, Burnaby, British Columbia |
| | Account Manager Assistant | Vancouver Metals, Burnaby, British Columbia |
| | Supervisor - Metals ICP Instrumentation | Vancouver Administration, Burnaby, British Columbia |
| | Department Manager - Metals | Vancouver Metals, Burnaby, British Columbia |
| | Department Manager - Metals | Vancouver Inorganics, Burnaby, British Columbia |
| | | Vancouver Metals, Burnaby, British Columbia |
| | | Vancouver Metals, Burnaby, British Columbia |



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "—" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Water

| Laboratory Duplicate (DUP) Report | | | | | | | | | | | |
|---|------------------|---|------------|------------|---------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | LOR | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Physical Tests (QC Lot: 1445103) | | | | | | | | | | | |
| VA24B0516-001 | Anonymous | Alkalinity, total (as CaCO ₃) | --- | E290 | 1.0 | mg/L | 98.2 | 96.6 | 1.64% | 20% | --- |
| Physical Tests (QC Lot: 1449532) | | | | | | | | | | | |
| KS2401775-012 | Anonymous | Solids, total suspended [TSS] | --- | E160 | 3.0 | mg/L | <3.0 | <3.0 | 0 | Diff <2x LOR | --- |
| Physical Tests (QC Lot: 1449542) | | | | | | | | | | | |
| KS2401775-012 | Anonymous | Solids, total dissolved [TDS] | --- | E162 | 20 | mg/L | 158 | 150 | 8 | Diff <2x LOR | --- |
| Anions and Nutrients (QC Lot: 1445095) | | | | | | | | | | | |
| VA24B0516-001 | Anonymous | Sulfate (as SO ₄) | 14808-79-8 | E235.SO4 | 0.30 | mg/L | 64.1 | 64.4 | 0.504% | 20% | --- |
| Anions and Nutrients (QC Lot: 1445096) | | | | | | | | | | | |
| VA24B0516-001 | Anonymous | Chloride | 16887-00-6 | E235.Cl | 0.50 | mg/L | <0.50 | <0.50 | 0 | Diff <2x LOR | --- |
| Anions and Nutrients (QC Lot: 1445097) | | | | | | | | | | | |
| VA24B0516-001 | Anonymous | Nitrate (as N) | 14797-55-8 | E235.NO3-L | 0.0050 | mg/L | 0.0978 | 0.0977 | 0.0726% | 20% | --- |
| Anions and Nutrients (QC Lot: 1445098) | | | | | | | | | | | |
| VA24B0516-001 | Anonymous | Nitrite (as N) | 14797-65-0 | E235.NO2-L | 0.0010 | mg/L | <0.0010 | <0.0010 | 0 | Diff <2x LOR | --- |
| Anions and Nutrients (QC Lot: 1445099) | | | | | | | | | | | |
| VA24B0516-001 | Anonymous | Fluoride | 16984-48-8 | E235.F | 0.020 | mg/L | 0.092 | 0.091 | 0.002 | Diff <2x LOR | --- |
| Anions and Nutrients (QC Lot: 1445100) | | | | | | | | | | | |
| VA24B0516-001 | Anonymous | Bromide | 24959-67-9 | E235.Br-L | 0.050 | mg/L | <0.050 | <0.050 | 0 | Diff <2x LOR | --- |
| Anions and Nutrients (QC Lot: 1450675) | | | | | | | | | | | |
| KS2401727-001 | Anonymous | Nitrogen, total | 7727-37-9 | E366 | 0.030 | mg/L | 0.326 | 0.322 | 1.30% | 20% | --- |
| Anions and Nutrients (QC Lot: 1450676) | | | | | | | | | | | |
| KS2401727-001 | Anonymous | Ammonia, total (as N) | 7664-41-7 | E298 | 0.0050 | mg/L | 0.0200 | 0.0194 | 0.0005 | Diff <2x LOR | --- |
| Anions and Nutrients (QC Lot: 1450677) | | | | | | | | | | | |
| KS2401727-001 | Anonymous | Phosphorus, total | 7723-14-0 | E372-U | 0.0020 | mg/L | <0.0020 | <0.0020 | 0 | Diff <2x LOR | --- |
| Organic / Inorganic Carbon (QC Lot: 1450680) | | | | | | | | | | | |
| VA24B0556-001 | Anonymous | Carbon, dissolved organic [DOC] | --- | E358-L | 0.50 | mg/L | 6.03 | 6.38 | 5.58% | 20% | --- |
| Total Sulfides (QC Lot: 1447663) | | | | | | | | | | | |
| CG2406308-001 | Anonymous | Sulfide, total (as S) | 18496-25-8 | E395 | 0.0075 | mg/L | 0.958 | 0.958 | 0.0480% | 20% | --- |
| Total Metals (QC Lot: 1441500) | | | | | | | | | | | |
| VA24B0588-001 | Anonymous | Aluminum, total | 7429-90-5 | E420 | 0.0030 | mg/L | 0.181 | 0.181 | 0.105% | 20% | --- |
| | | Antimony, total | 7440-36-0 | E420 | 0.00010 | mg/L | 0.0350 | 0.0358 | 2.29% | 20% | --- |



| Sub-Matrix: Water | | | | | Laboratory Duplicate (DUP) Report | | | | | | |
|---|------------------|-------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | LOR | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Total Metals (QC Lot: 1441500) - continued | | | | | | | | | | | |
| VA24B0588-001 | Anonymous | Arsenic, total | 7440-38-2 | E420 | 0.00010 | mg/L | 0.0158 | 0.0156 | 1.29% | 20% | --- |
| | | Barium, total | 7440-39-3 | E420 | 0.00010 | mg/L | 0.0463 | 0.0459 | 0.775% | 20% | --- |
| | | Beryllium, total | 7440-41-7 | E420 | 0.000020 | mg/L | <0.000020 | <0.000020 | 0 | Diff <2x LOR | --- |
| | | Bismuth, total | 7440-69-9 | E420 | 0.000050 | mg/L | <0.000050 | <0.000050 | 0 | Diff <2x LOR | --- |
| | | Boron, total | 7440-42-8 | E420 | 0.010 | mg/L | 0.502 | 0.494 | 1.51% | 20% | --- |
| | | Cadmium, total | 7440-43-9 | E420 | 0.0000250 | mg/L | <0.0000250 | <0.0000250 | 0 | Diff <2x LOR | --- |
| | | Calcium, total | 7440-70-2 | E420 | 0.050 | mg/L | 42.5 | 42.1 | 0.898% | 20% | --- |
| | | Cesium, total | 7440-46-2 | E420 | 0.000010 | mg/L | 0.0132 | 0.0133 | 0.730% | 20% | --- |
| | | Chromium, total | 7440-47-3 | E420 | 0.00050 | mg/L | <0.00050 | <0.00050 | 0 | Diff <2x LOR | --- |
| | | Cobalt, total | 7440-48-4 | E420 | 0.00010 | mg/L | 0.00019 | 0.00022 | 0.00002 | Diff <2x LOR | --- |
| | | Copper, total | 7440-50-8 | E420 | 0.00050 | mg/L | <0.00050 | <0.00050 | 0 | Diff <2x LOR | --- |
| | | Iron, total | 7439-89-6 | E420 | 0.010 | mg/L | 0.223 | 0.217 | 2.88% | 20% | --- |
| | | Lead, total | 7439-92-1 | E420 | 0.000050 | mg/L | 0.000443 | 0.000449 | 0.000006 | Diff <2x LOR | --- |
| | | Lithium, total | 7439-93-2 | E420 | 0.0010 | mg/L | 0.356 | 0.356 | 0.00569% | 20% | --- |
| | | Magnesium, total | 7439-95-4 | E420 | 0.100 | mg/L | 10.7 | 10.1 | 5.44% | 20% | --- |
| | | Manganese, total | 7439-96-5 | E420 | 0.00010 | mg/L | 0.122 | 0.120 | 2.08% | 20% | --- |
| | | Molybdenum, total | 7439-98-7 | E420 | 0.000050 | mg/L | 0.128 | 0.131 | 2.14% | 20% | --- |
| | | Nickel, total | 7440-02-0 | E420 | 0.00050 | mg/L | 0.00113 | 0.00109 | 0.00004 | Diff <2x LOR | --- |
| | | Phosphorus, total | 7723-14-0 | E420 | 0.050 | mg/L | 0.091 | 0.080 | 0.011 | Diff <2x LOR | --- |
| | | Potassium, total | 7440-09-7 | E420 | 0.100 | mg/L | 125 | 123 | 2.04% | 20% | --- |
| | | Rubidium, total | 7440-17-7 | E420 | 0.00020 | mg/L | 0.146 | 0.144 | 1.36% | 20% | --- |
| | | Selenium, total | 7782-49-2 | E420 | 0.000050 | mg/L | 0.00375 | 0.00387 | 3.14% | 20% | --- |
| | | Silicon, total | 7440-21-3 | E420 | 0.10 | mg/L | 3.00 | 2.94 | 1.95% | 20% | --- |
| | | Silver, total | 7440-22-4 | E420 | 0.000010 | mg/L | 0.000034 | 0.000035 | 0.0000007 | Diff <2x LOR | --- |
| | | Sodium, total | 7440-23-5 | E420 | 0.050 | mg/L | 265 | 261 | 1.52% | 20% | --- |
| | | Strontium, total | 7440-24-6 | E420 | 0.00020 | mg/L | 1.41 | 1.43 | 1.68% | 20% | --- |
| | | Sulfur, total | 7704-34-9 | E420 | 0.50 | mg/L | 198 | 198 | 0.378% | 20% | --- |
| | | Tellurium, total | 13494-80-9 | E420 | 0.00020 | mg/L | <0.00020 | <0.00020 | 0 | Diff <2x LOR | --- |
| | | Thallium, total | 7440-28-0 | E420 | 0.000010 | mg/L | 0.000149 | 0.000149 | 0.0208% | 20% | --- |
| | | Thorium, total | 7440-29-1 | E420 | 0.00010 | mg/L | <0.00010 | <0.00010 | 0 | Diff <2x LOR | --- |
| | | Tin, total | 7440-31-5 | E420 | 0.00010 | mg/L | <0.00010 | <0.00010 | 0 | Diff <2x LOR | --- |
| | | Titanium, total | 7440-32-6 | E420 | 0.00180 | mg/L | <0.00180 | <0.00180 | 0 | Diff <2x LOR | --- |
| | | Tungsten, total | 7440-33-7 | E420 | 0.00010 | mg/L | 0.00308 | 0.00309 | 0.508% | 20% | --- |
| | | Uranium, total | 7440-61-1 | E420 | 0.000010 | mg/L | 0.000670 | 0.000677 | 1.05% | 20% | --- |



| Sub-Matrix: Water | | | | | Laboratory Duplicate (DUP) Report | | | | | | |
|---|------------------|-----------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | LOR | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Total Metals (QC Lot: 1441500) - continued | | | | | | | | | | | |
| VA24B0588-001 | Anonymous | Vanadium, total | 7440-62-2 | E420 | 0.00050 | mg/L | 0.00065 | 0.00061 | 0.00004 | Diff <2x LOR | --- |
| | | Zinc, total | 7440-66-6 | E420 | 0.0030 | mg/L | 0.0032 | <0.0030 | 0.0002 | Diff <2x LOR | --- |
| | | Zirconium, total | 7440-67-7 | E420 | 0.00020 | mg/L | <0.00020 | <0.00020 | 0 | Diff <2x LOR | --- |
| Total Metals (QC Lot: 1444787) | | | | | | | | | | | |
| VA24B0555-002 | Anonymous | Mercury, total | 7439-97-6 | E508 | 0.0000050 | mg/L | <0.0000050 | <0.0000050 | 0 | Diff <2x LOR | --- |
| Dissolved Metals (QC Lot: 1441446) | | | | | | | | | | | |
| KS2401675-001 | Anonymous | Aluminum, dissolved | 7429-90-5 | E421 | 0.0010 | mg/L | 0.0165 | 0.0159 | 3.91% | 20% | --- |
| | | Antimony, dissolved | 7440-36-0 | E421 | 0.00010 | mg/L | <0.00010 | <0.00010 | 0 | Diff <2x LOR | --- |
| | | Arsenic, dissolved | 7440-38-2 | E421 | 0.00010 | mg/L | 0.00053 | 0.00053 | 0.00000009 | Diff <2x LOR | --- |
| | | Barium, dissolved | 7440-39-3 | E421 | 0.00010 | mg/L | 0.0181 | 0.0180 | 0.323% | 20% | --- |
| | | Beryllium, dissolved | 7440-41-7 | E421 | 0.000020 | mg/L | <0.000020 | <0.000020 | 0 | Diff <2x LOR | --- |
| | | Bismuth, dissolved | 7440-69-9 | E421 | 0.000050 | mg/L | <0.000050 | <0.000050 | 0 | Diff <2x LOR | --- |
| | | Boron, dissolved | 7440-42-8 | E421 | 0.010 | mg/L | 0.021 | 0.021 | 0.0002 | Diff <2x LOR | --- |
| | | Cadmium, dissolved | 7440-43-9 | E421 | 0.0000050 | mg/L | <0.0000050 | <0.0000050 | 0 | Diff <2x LOR | --- |
| | | Calcium, dissolved | 7440-70-2 | E421 | 0.050 | mg/L | 15.8 | 15.8 | 0.0501% | 20% | --- |
| | | Cesium, dissolved | 7440-46-2 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | --- |
| | | Chromium, dissolved | 7440-47-3 | E421 | 0.00050 | mg/L | <0.00050 | <0.00050 | 0 | Diff <2x LOR | --- |
| | | Cobalt, dissolved | 7440-48-4 | E421 | 0.00010 | mg/L | <0.00010 | <0.00010 | 0 | Diff <2x LOR | --- |
| | | Copper, dissolved | 7440-50-8 | E421 | 0.00020 | mg/L | 0.00642 | 0.00643 | 0.101% | 20% | --- |
| | | Iron, dissolved | 7439-89-6 | E421 | 0.010 | mg/L | 0.016 | 0.016 | 0.0002 | Diff <2x LOR | --- |
| | | Lead, dissolved | 7439-92-1 | E421 | 0.000050 | mg/L | <0.000050 | <0.000050 | 0 | Diff <2x LOR | --- |
| | | Lithium, dissolved | 7439-93-2 | E421 | 0.0010 | mg/L | <0.0010 | <0.0010 | 0 | Diff <2x LOR | --- |
| | | Magnesium, dissolved | 7439-95-4 | E421 | 0.0050 | mg/L | 4.78 | 4.76 | 0.295% | 20% | --- |
| | | Manganese, dissolved | 7439-96-5 | E421 | 0.00010 | mg/L | 0.00019 | 0.00020 | 0.000005 | Diff <2x LOR | --- |
| | | Molybdenum, dissolved | 7439-98-7 | E421 | 0.000050 | mg/L | 0.000903 | 0.000891 | 1.32% | 20% | --- |
| | | Nickel, dissolved | 7440-02-0 | E421 | 0.00050 | mg/L | 0.00067 | 0.00063 | 0.00004 | Diff <2x LOR | --- |
| | | Phosphorus, dissolved | 7723-14-0 | E421 | 0.050 | mg/L | <0.050 | <0.050 | 0 | Diff <2x LOR | --- |
| | | Potassium, dissolved | 7440-09-7 | E421 | 0.050 | mg/L | 0.920 | 0.918 | 0.174% | 20% | --- |
| | | Rubidium, dissolved | 7440-17-7 | E421 | 0.00020 | mg/L | 0.00024 | 0.00028 | 0.00004 | Diff <2x LOR | --- |
| | | Selenium, dissolved | 7782-49-2 | E421 | 0.000050 | mg/L | 0.000054 | 0.000094 | 0.000039 | Diff <2x LOR | --- |
| | | Silicon, dissolved | 7440-21-3 | E421 | 0.050 | mg/L | 9.16 | 9.06 | 1.09% | 20% | --- |
| | | Silver, dissolved | 7440-22-4 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | --- |
| | | Sodium, dissolved | 7440-23-5 | E421 | 0.050 | mg/L | 3.35 | 3.32 | 0.976% | 20% | --- |
| | | Strontium, dissolved | 7440-24-6 | E421 | 0.00020 | mg/L | 0.0616 | 0.0614 | 0.367% | 20% | --- |



| Sub-Matrix: Water | | | | | Laboratory Duplicate (DUP) Report | | | | | | | |
|---|------------------|-------------------------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|--|
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | LOR | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier | |
| Dissolved Metals (QC Lot: 1441446) - continued | | | | | | | | | | | | |
| KS2401675-001 | Anonymous | Sulfur, dissolved | 7704-34-9 | E421 | 0.50 | mg/L | 0.72 | 0.69 | 0.03 | Diff <2x LOR | ---- | |
| | | Tellurium, dissolved | 13494-80-9 | E421 | 0.00020 | mg/L | <0.00020 | <0.00020 | 0 | Diff <2x LOR | ---- | |
| | | Thallium, dissolved | 7440-28-0 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | ---- | |
| | | Thorium, dissolved | 7440-29-1 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | ---- | |
| | | Tin, dissolved | 7440-31-5 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | ---- | |
| | | Titanium, dissolved | 7440-32-6 | E421 | 0.000030 | mg/L | 0.00067 | 0.00070 | 0.00003 | Diff <2x LOR | ---- | |
| | | Tungsten, dissolved | 7440-33-7 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | ---- | |
| | | Uranium, dissolved | 7440-61-1 | E421 | 0.000010 | mg/L | 0.000066 | 0.000068 | 0.000002 | Diff <2x LOR | ---- | |
| | | Vanadium, dissolved | 7440-62-2 | E421 | 0.000050 | mg/L | 0.00212 | 0.00207 | 0.00005 | Diff <2x LOR | ---- | |
| | | Zinc, dissolved | 7440-66-6 | E421 | 0.0010 | mg/L | <0.0010 | <0.0010 | 0 | Diff <2x LOR | ---- | |
| | | Zirconium, dissolved | 7440-67-7 | E421 | 0.000030 | mg/L | 0.00052 | 0.00051 | 0.00001 | Diff <2x LOR | ---- | |
| Dissolved Metals (QC Lot: 1445296) | | | | | | | | | | | | |
| VA24B0560-002 | Anonymous | Mercury, dissolved | 7439-97-6 | E509 | 0.0000050 | mg/L | <0.0000050 | <0.0000050 | 0 | Diff <2x LOR | ---- | |
| Speciated Metals (QC Lot: 1447077) | | | | | | | | | | | | |
| VA24B0170-003 | Anonymous | Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532 | 0.00200 | mg/L | <0.00200 | <0.00200 | 0 | Diff <2x LOR | ---- | |

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

| Analyte | CAS Number | Method | LOR | Unit | Result | Qualifier |
|--|------------|------------|--------|------|----------|-----------|
| Physical Tests (QCLot: 1445103) | | | | | | |
| Alkalinity, total (as CaCO ₃) | --- | E290 | 1 | mg/L | <1.0 | --- |
| Physical Tests (QCLot: 1449532) | | | | | | |
| Solids, total suspended [TSS] | --- | E160 | 3 | mg/L | <3.0 | --- |
| Physical Tests (QCLot: 1449542) | | | | | | |
| Solids, total dissolved [TDS] | --- | E162 | 10 | mg/L | <10 | --- |
| Anions and Nutrients (QCLot: 1445095) | | | | | | |
| Sulfate (as SO ₄) | 14808-79-8 | E235.SO4 | 0.3 | mg/L | <0.30 | --- |
| Anions and Nutrients (QCLot: 1445096) | | | | | | |
| Chloride | 16887-00-6 | E235.Cl | 0.5 | mg/L | <0.50 | --- |
| Anions and Nutrients (QCLot: 1445097) | | | | | | |
| Nitrate (as N) | 14797-55-8 | E235.NO3-L | 0.005 | mg/L | <0.0050 | --- |
| Anions and Nutrients (QCLot: 1445098) | | | | | | |
| Nitrite (as N) | 14797-65-0 | E235.NO2-L | 0.001 | mg/L | <0.0010 | --- |
| Anions and Nutrients (QCLot: 1445099) | | | | | | |
| Fluoride | 16984-48-8 | E235.F | 0.02 | mg/L | <0.020 | --- |
| Anions and Nutrients (QCLot: 1445100) | | | | | | |
| Bromide | 24959-67-9 | E235.Br-L | 0.05 | mg/L | <0.050 | --- |
| Anions and Nutrients (QCLot: 1450675) | | | | | | |
| Nitrogen, total | 7727-37-9 | E366 | 0.03 | mg/L | <0.030 | --- |
| Anions and Nutrients (QCLot: 1450676) | | | | | | |
| Ammonia, total (as N) | 7664-41-7 | E298 | 0.005 | mg/L | <0.0050 | --- |
| Anions and Nutrients (QCLot: 1450677) | | | | | | |
| Phosphorus, total | 7723-14-0 | E372-U | 0.002 | mg/L | <0.0020 | --- |
| Organic / Inorganic Carbon (QCLot: 1450680) | | | | | | |
| Carbon, dissolved organic [DOC] | --- | E358-L | 0.5 | mg/L | <0.50 | --- |
| Total Sulfides (QCLot: 1447663) | | | | | | |
| Sulfide, total (as S) | 18496-25-8 | E395 | 0.0015 | mg/L | <0.0015 | --- |
| Total Metals (QCLot: 1441500) | | | | | | |
| Aluminum, total | 7429-90-5 | E420 | 0.003 | mg/L | <0.0030 | --- |
| Antimony, total | 7440-36-0 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Arsenic, total | 7440-38-2 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Barium, total | 7440-39-3 | E420 | 0.0001 | mg/L | <0.00010 | --- |

Sub-Matrix: Water

| Analyte | CAS Number | Method | LOR | Unit | Result | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| Total Metals (QCLot: 1441500) - continued | | | | | | |
| Beryllium, total | 7440-41-7 | E420 | 0.00002 | mg/L | <0.000020 | --- |
| Bismuth, total | 7440-69-9 | E420 | 0.00005 | mg/L | <0.000050 | --- |
| Boron, total | 7440-42-8 | E420 | 0.01 | mg/L | <0.010 | --- |
| Cadmium, total | 7440-43-9 | E420 | 0.000005 | mg/L | <0.0000050 | --- |
| Calcium, total | 7440-70-2 | E420 | 0.05 | mg/L | <0.050 | --- |
| Cesium, total | 7440-46-2 | E420 | 0.00001 | mg/L | <0.000010 | --- |
| Chromium, total | 7440-47-3 | E420 | 0.0005 | mg/L | <0.00050 | --- |
| Cobalt, total | 7440-48-4 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Copper, total | 7440-50-8 | E420 | 0.0005 | mg/L | <0.00050 | --- |
| Iron, total | 7439-89-6 | E420 | 0.01 | mg/L | <0.010 | --- |
| Lead, total | 7439-92-1 | E420 | 0.00005 | mg/L | <0.000050 | --- |
| Lithium, total | 7439-93-2 | E420 | 0.001 | mg/L | <0.0010 | --- |
| Magnesium, total | 7439-95-4 | E420 | 0.005 | mg/L | <0.0050 | --- |
| Manganese, total | 7439-96-5 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Molybdenum, total | 7439-98-7 | E420 | 0.00005 | mg/L | <0.000050 | --- |
| Nickel, total | 7440-02-0 | E420 | 0.0005 | mg/L | <0.00050 | --- |
| Phosphorus, total | 7723-14-0 | E420 | 0.05 | mg/L | <0.050 | --- |
| Potassium, total | 7440-09-7 | E420 | 0.05 | mg/L | <0.050 | --- |
| Rubidium, total | 7440-17-7 | E420 | 0.0002 | mg/L | <0.00020 | --- |
| Selenium, total | 7782-49-2 | E420 | 0.00005 | mg/L | <0.000050 | --- |
| Silicon, total | 7440-21-3 | E420 | 0.1 | mg/L | <0.10 | --- |
| Silver, total | 7440-22-4 | E420 | 0.00001 | mg/L | <0.000010 | --- |
| Sodium, total | 7440-23-5 | E420 | 0.05 | mg/L | <0.050 | --- |
| Strontium, total | 7440-24-6 | E420 | 0.0002 | mg/L | <0.00020 | --- |
| Sulfur, total | 7704-34-9 | E420 | 0.5 | mg/L | <0.50 | --- |
| Tellurium, total | 13494-80-9 | E420 | 0.0002 | mg/L | <0.00020 | --- |
| Thallium, total | 7440-28-0 | E420 | 0.00001 | mg/L | <0.000010 | --- |
| Thorium, total | 7440-29-1 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Tin, total | 7440-31-5 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Titanium, total | 7440-32-6 | E420 | 0.0003 | mg/L | <0.00030 | --- |
| Tungsten, total | 7440-33-7 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Uranium, total | 7440-61-1 | E420 | 0.00001 | mg/L | <0.000010 | --- |
| Vanadium, total | 7440-62-2 | E420 | 0.0005 | mg/L | <0.00050 | --- |
| Zinc, total | 7440-66-6 | E420 | 0.003 | mg/L | <0.0030 | --- |
| Zirconium, total | 7440-67-7 | E420 | 0.0002 | mg/L | <0.00020 | --- |

Sub-Matrix: Water

| Analyte | CAS Number | Method | LOR | Unit | Result | Qualifier |
|---|------------|--------|----------|------|------------|-----------|
| Total Metals (QC Lot: 1444787) | | | | | | |
| Mercury, total | 7439-97-6 | E508 | 0.000005 | mg/L | <0.0000050 | --- |
| Dissolved Metals (QC Lot: 1441446) | | | | | | |
| Aluminum, dissolved | 7429-90-5 | E421 | 0.001 | mg/L | <0.0010 | --- |
| Antimony, dissolved | 7440-36-0 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Arsenic, dissolved | 7440-38-2 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Barium, dissolved | 7440-39-3 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Beryllium, dissolved | 7440-41-7 | E421 | 0.00002 | mg/L | <0.000020 | --- |
| Bismuth, dissolved | 7440-69-9 | E421 | 0.00005 | mg/L | <0.000050 | --- |
| Boron, dissolved | 7440-42-8 | E421 | 0.01 | mg/L | <0.010 | --- |
| Cadmium, dissolved | 7440-43-9 | E421 | 0.000005 | mg/L | <0.0000050 | --- |
| Calcium, dissolved | 7440-70-2 | E421 | 0.05 | mg/L | <0.050 | --- |
| Cesium, dissolved | 7440-46-2 | E421 | 0.00001 | mg/L | <0.000010 | --- |
| Chromium, dissolved | 7440-47-3 | E421 | 0.0005 | mg/L | <0.00050 | --- |
| Cobalt, dissolved | 7440-48-4 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Copper, dissolved | 7440-50-8 | E421 | 0.0002 | mg/L | <0.00020 | --- |
| Iron, dissolved | 7439-89-6 | E421 | 0.01 | mg/L | <0.010 | --- |
| Lead, dissolved | 7439-92-1 | E421 | 0.00005 | mg/L | <0.000050 | --- |
| Lithium, dissolved | 7439-93-2 | E421 | 0.001 | mg/L | <0.0010 | --- |
| Magnesium, dissolved | 7439-95-4 | E421 | 0.005 | mg/L | <0.0050 | --- |
| Manganese, dissolved | 7439-96-5 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Molybdenum, dissolved | 7439-98-7 | E421 | 0.00005 | mg/L | <0.000050 | --- |
| Nickel, dissolved | 7440-02-0 | E421 | 0.0005 | mg/L | <0.00050 | --- |
| Phosphorus, dissolved | 7723-14-0 | E421 | 0.05 | mg/L | <0.050 | --- |
| Potassium, dissolved | 7440-09-7 | E421 | 0.05 | mg/L | <0.050 | --- |
| Rubidium, dissolved | 7440-17-7 | E421 | 0.0002 | mg/L | <0.00020 | --- |
| Selenium, dissolved | 7782-49-2 | E421 | 0.00005 | mg/L | <0.000050 | --- |
| Silicon, dissolved | 7440-21-3 | E421 | 0.05 | mg/L | <0.050 | --- |
| Silver, dissolved | 7440-22-4 | E421 | 0.00001 | mg/L | <0.000010 | --- |
| Sodium, dissolved | 7440-23-5 | E421 | 0.05 | mg/L | <0.050 | --- |
| Strontium, dissolved | 7440-24-6 | E421 | 0.0002 | mg/L | <0.00020 | --- |
| Sulfur, dissolved | 7704-34-9 | E421 | 0.5 | mg/L | <0.50 | --- |
| Tellurium, dissolved | 13494-80-9 | E421 | 0.0002 | mg/L | <0.00020 | --- |
| Thallium, dissolved | 7440-28-0 | E421 | 0.00001 | mg/L | <0.000010 | --- |
| Thorium, dissolved | 7440-29-1 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Tin, dissolved | 7440-31-5 | E421 | 0.0001 | mg/L | <0.00010 | --- |

Sub-Matrix: Water

| Analyte | CAS Number | Method | LOR | Unit | Result | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| Dissolved Metals (QCLot: 1441446) - continued | | | | | | |
| Titanium, dissolved | 7440-32-6 | E421 | 0.0003 | mg/L | <0.00030 | --- |
| Tungsten, dissolved | 7440-33-7 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Uranium, dissolved | 7440-61-1 | E421 | 0.00001 | mg/L | <0.000010 | --- |
| Vanadium, dissolved | 7440-62-2 | E421 | 0.0005 | mg/L | <0.00050 | --- |
| Zinc, dissolved | 7440-66-6 | E421 | 0.001 | mg/L | <0.0010 | --- |
| Zirconium, dissolved | 7440-67-7 | E421 | 0.0002 | mg/L | <0.00020 | --- |
| Dissolved Metals (QCLot: 1445296) | | | | | | |
| Mercury, dissolved | 7439-97-6 | E509 | 0.000005 | mg/L | <0.0000050 | --- |
| Speciated Metals (QCLot: 1447077) | | | | | | |
| Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532 | 0.0005 | mg/L | <0.00050 | --- |



Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

| Sub-Matrix: Water | Laboratory Control Sample (LCS) Report | | | | | | | | |
|--|--|------------|--------------|---------------------|----------------------|------|------|------|-----------|
| | | Spike | Recovery (%) | Recovery Limits (%) | | | | | |
| Analyte | CAS Number | Method | LOR | Unit | Target Concentration | LCS | Low | High | Qualifier |
| Physical Tests (QCLot: 1445103) | | | | | | | | | |
| Alkalinity, total (as CaCO ₃) | --- | E290 | 1 | mg/L | 500 mg/L | 115 | 85.0 | 115 | --- |
| Physical Tests (QCLot: 1449532) | | | | | | | | | |
| Solids, total suspended [TSS] | --- | E160 | 3 | mg/L | 150 mg/L | 111 | 85.0 | 115 | --- |
| Physical Tests (QCLot: 1449542) | | | | | | | | | |
| Solids, total dissolved [TDS] | --- | E162 | 10 | mg/L | 1000 mg/L | 99.4 | 85.0 | 115 | --- |
| Anions and Nutrients (QCLot: 1445095) | | | | | | | | | |
| Sulfate (as SO ₄) | 14808-79-8 | E235.SO4 | 0.3 | mg/L | 100 mg/L | 102 | 90.0 | 110 | --- |
| Anions and Nutrients (QCLot: 1445096) | | | | | | | | | |
| Chloride | 16887-00-6 | E235.Cl | 0.5 | mg/L | 100 mg/L | 101 | 90.0 | 110 | --- |
| Anions and Nutrients (QCLot: 1445097) | | | | | | | | | |
| Nitrate (as N) | 14797-55-8 | E235.NO3-L | 0.005 | mg/L | 2.5 mg/L | 101 | 90.0 | 110 | --- |
| Anions and Nutrients (QCLot: 1445098) | | | | | | | | | |
| Nitrite (as N) | 14797-65-0 | E235.NO2-L | 0.001 | mg/L | 0.5 mg/L | 98.2 | 90.0 | 110 | --- |
| Anions and Nutrients (QCLot: 1445099) | | | | | | | | | |
| Fluoride | 16984-48-8 | E235.F | 0.02 | mg/L | 1 mg/L | 98.4 | 90.0 | 110 | --- |
| Anions and Nutrients (QCLot: 1445100) | | | | | | | | | |
| Bromide | 24959-67-9 | E235.Br-L | 0.05 | mg/L | 0.5 mg/L | 101 | 85.0 | 115 | --- |
| Anions and Nutrients (QCLot: 1450675) | | | | | | | | | |
| Nitrogen, total | 7727-37-9 | E366 | 0.03 | mg/L | 0.5 mg/L | 97.8 | 75.0 | 125 | --- |
| Anions and Nutrients (QCLot: 1450676) | | | | | | | | | |
| Ammonia, total (as N) | 7664-41-7 | E298 | 0.005 | mg/L | 0.2 mg/L | 106 | 85.0 | 115 | --- |
| Anions and Nutrients (QCLot: 1450677) | | | | | | | | | |
| Phosphorus, total | 7723-14-0 | E372-U | 0.002 | mg/L | 0.05 mg/L | 98.1 | 80.0 | 120 | --- |
| Organic / Inorganic Carbon (QCLot: 1450680) | | | | | | | | | |
| Carbon, dissolved organic [DOC] | --- | E358-L | 0.5 | mg/L | 8.57 mg/L | 102 | 80.0 | 120 | --- |
| Total Sulfides (QCLot: 1447663) | | | | | | | | | |
| Sulfide, total (as S) | 18496-25-8 | E395 | 0.0015 | mg/L | 0.08 mg/L | 109 | 80.0 | 120 | --- |
| Total Metals (QCLot: 1441500) | | | | | | | | | |



Sub-Matrix: Water

| Analyte | CAS Number | Method | LOR | Unit | Laboratory Control Sample (LCS) Report | | | | |
|--|------------|--------|----------|------|--|--------------|---------------------|-----|-----------|
| | | | | | Spike | Recovery (%) | Recovery Limits (%) | | Qualifier |
| Total Metals (QCLot: 1441500) - continued | | | | | | | | | |
| Aluminum, total | 7429-90-5 | E420 | 0.003 | mg/L | 2 mg/L | 101 | 80.0 | 120 | --- |
| Antimony, total | 7440-36-0 | E420 | 0.0001 | mg/L | 1 mg/L | 103 | 80.0 | 120 | --- |
| Arsenic, total | 7440-38-2 | E420 | 0.0001 | mg/L | 1 mg/L | 112 | 80.0 | 120 | --- |
| Barium, total | 7440-39-3 | E420 | 0.0001 | mg/L | 0.25 mg/L | 107 | 80.0 | 120 | --- |
| Beryllium, total | 7440-41-7 | E420 | 0.00002 | mg/L | 0.1 mg/L | 93.3 | 80.0 | 120 | --- |
| Bismuth, total | 7440-69-9 | E420 | 0.00005 | mg/L | 1 mg/L | 87.5 | 80.0 | 120 | --- |
| Boron, total | 7440-42-8 | E420 | 0.01 | mg/L | 1 mg/L | 91.4 | 80.0 | 120 | --- |
| Cadmium, total | 7440-43-9 | E420 | 0.000005 | mg/L | 0.1 mg/L | 105 | 80.0 | 120 | --- |
| Calcium, total | 7440-70-2 | E420 | 0.05 | mg/L | 50 mg/L | 98.0 | 80.0 | 120 | --- |
| Cesium, total | 7440-46-2 | E420 | 0.00001 | mg/L | 0.05 mg/L | 104 | 80.0 | 120 | --- |
| Chromium, total | 7440-47-3 | E420 | 0.0005 | mg/L | 0.25 mg/L | 101 | 80.0 | 120 | --- |
| Cobalt, total | 7440-48-4 | E420 | 0.0001 | mg/L | 0.25 mg/L | 99.8 | 80.0 | 120 | --- |
| Copper, total | 7440-50-8 | E420 | 0.0005 | mg/L | 0.25 mg/L | 100 | 80.0 | 120 | --- |
| Iron, total | 7439-89-6 | E420 | 0.01 | mg/L | 1 mg/L | 102 | 80.0 | 120 | --- |
| Lead, total | 7439-92-1 | E420 | 0.00005 | mg/L | 0.5 mg/L | 96.2 | 80.0 | 120 | --- |
| Lithium, total | 7439-93-2 | E420 | 0.001 | mg/L | 0.25 mg/L | 99.8 | 80.0 | 120 | --- |
| Magnesium, total | 7439-95-4 | E420 | 0.005 | mg/L | 50 mg/L | 100 | 80.0 | 120 | --- |
| Manganese, total | 7439-96-5 | E420 | 0.0001 | mg/L | 0.25 mg/L | 100 | 80.0 | 120 | --- |
| Molybdenum, total | 7439-98-7 | E420 | 0.00005 | mg/L | 0.25 mg/L | 102 | 80.0 | 120 | --- |
| Nickel, total | 7440-02-0 | E420 | 0.0005 | mg/L | 0.5 mg/L | 101 | 80.0 | 120 | --- |
| Phosphorus, total | 7723-14-0 | E420 | 0.05 | mg/L | 10 mg/L | 115 | 80.0 | 120 | --- |
| Potassium, total | 7440-09-7 | E420 | 0.05 | mg/L | 50 mg/L | 110 | 80.0 | 120 | --- |
| Rubidium, total | 7440-17-7 | E420 | 0.0002 | mg/L | 0.1 mg/L | 105 | 80.0 | 120 | --- |
| Selenium, total | 7782-49-2 | E420 | 0.00005 | mg/L | 1 mg/L | 105 | 80.0 | 120 | --- |
| Silicon, total | 7440-21-3 | E420 | 0.1 | mg/L | 10 mg/L | 108 | 80.0 | 120 | --- |
| Silver, total | 7440-22-4 | E420 | 0.00001 | mg/L | 0.1 mg/L | 94.6 | 80.0 | 120 | --- |
| Sodium, total | 7440-23-5 | E420 | 0.05 | mg/L | 50 mg/L | 104 | 80.0 | 120 | --- |
| Strontium, total | 7440-24-6 | E420 | 0.0002 | mg/L | 0.25 mg/L | 108 | 80.0 | 120 | --- |
| Sulfur, total | 7704-34-9 | E420 | 0.5 | mg/L | 50 mg/L | 90.0 | 80.0 | 120 | --- |
| Tellurium, total | 13494-80-9 | E420 | 0.0002 | mg/L | 0.1 mg/L | 116 | 80.0 | 120 | --- |
| Thallium, total | 7440-28-0 | E420 | 0.00001 | mg/L | 1 mg/L | 96.1 | 80.0 | 120 | --- |
| Thorium, total | 7440-29-1 | E420 | 0.0001 | mg/L | 0.1 mg/L | 85.2 | 80.0 | 120 | --- |
| Tin, total | 7440-31-5 | E420 | 0.0001 | mg/L | 0.5 mg/L | 101 | 80.0 | 120 | --- |
| Titanium, total | 7440-32-6 | E420 | 0.0003 | mg/L | 0.25 mg/L | 102 | 80.0 | 120 | --- |
| Tungsten, total | 7440-33-7 | E420 | 0.0001 | mg/L | 0.1 mg/L | 96.7 | 80.0 | 120 | --- |
| Uranium, total | 7440-61-1 | E420 | 0.00001 | mg/L | 0.005 mg/L | 95.4 | 80.0 | 120 | --- |



| Sub-Matrix: Water | | | | | Laboratory Control Sample (LCS) Report | | | | |
|---|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
| | | | | | Spike | Recovery (%) | Recovery Limits (%) | | |
| Analyte | CAS Number | Method | LOR | Unit | Target Concentration | LCS | Low | High | Qualifier |
| Total Metals (QC Lot: 1441500) - continued | | | | | | | | | |
| Vanadium, total | 7440-62-2 | E420 | 0.0005 | mg/L | 0.5 mg/L | 104 | 80.0 | 120 | --- |
| Zinc, total | 7440-66-6 | E420 | 0.003 | mg/L | 0.5 mg/L | 105 | 80.0 | 120 | --- |
| Zirconium, total | 7440-67-7 | E420 | 0.0002 | mg/L | 0.1 mg/L | 99.3 | 80.0 | 120 | --- |
| Total Metals (QC Lot: 1444787) | | | | | | | | | |
| Mercury, total | 7439-97-6 | E508 | 0.000005 | mg/L | 0 mg/L | 92.8 | 80.0 | 120 | --- |
| Dissolved Metals (QC Lot: 1441446) | | | | | | | | | |
| Aluminum, dissolved | 7429-90-5 | E421 | 0.001 | mg/L | 2 mg/L | 98.9 | 80.0 | 120 | --- |
| Antimony, dissolved | 7440-36-0 | E421 | 0.0001 | mg/L | 1 mg/L | 97.4 | 80.0 | 120 | --- |
| Arsenic, dissolved | 7440-38-2 | E421 | 0.0001 | mg/L | 1 mg/L | 103 | 80.0 | 120 | --- |
| Barium, dissolved | 7440-39-3 | E421 | 0.0001 | mg/L | 0.25 mg/L | 99.6 | 80.0 | 120 | --- |
| Beryllium, dissolved | 7440-41-7 | E421 | 0.00002 | mg/L | 0.1 mg/L | 99.3 | 80.0 | 120 | --- |
| Bismuth, dissolved | 7440-69-9 | E421 | 0.00005 | mg/L | 1 mg/L | 96.5 | 80.0 | 120 | --- |
| Boron, dissolved | 7440-42-8 | E421 | 0.01 | mg/L | 1 mg/L | 96.5 | 80.0 | 120 | --- |
| Cadmium, dissolved | 7440-43-9 | E421 | 0.000005 | mg/L | 0.1 mg/L | 98.1 | 80.0 | 120 | --- |
| Calcium, dissolved | 7440-70-2 | E421 | 0.05 | mg/L | 50 mg/L | 99.4 | 80.0 | 120 | --- |
| Cesium, dissolved | 7440-46-2 | E421 | 0.00001 | mg/L | 0.05 mg/L | 102 | 80.0 | 120 | --- |
| Chromium, dissolved | 7440-47-3 | E421 | 0.0005 | mg/L | 0.25 mg/L | 99.0 | 80.0 | 120 | --- |
| Cobalt, dissolved | 7440-48-4 | E421 | 0.0001 | mg/L | 0.25 mg/L | 98.7 | 80.0 | 120 | --- |
| Copper, dissolved | 7440-50-8 | E421 | 0.0002 | mg/L | 0.25 mg/L | 96.5 | 80.0 | 120 | --- |
| Iron, dissolved | 7439-89-6 | E421 | 0.01 | mg/L | 1 mg/L | 99.3 | 80.0 | 120 | --- |
| Lead, dissolved | 7439-92-1 | E421 | 0.00005 | mg/L | 0.5 mg/L | 98.7 | 80.0 | 120 | --- |
| Lithium, dissolved | 7439-93-2 | E421 | 0.001 | mg/L | 0.25 mg/L | 99.9 | 80.0 | 120 | --- |
| Magnesium, dissolved | 7439-95-4 | E421 | 0.005 | mg/L | 50 mg/L | 107 | 80.0 | 120 | --- |
| Manganese, dissolved | 7439-96-5 | E421 | 0.0001 | mg/L | 0.25 mg/L | 99.9 | 80.0 | 120 | --- |
| Molybdenum, dissolved | 7439-98-7 | E421 | 0.00005 | mg/L | 0.25 mg/L | 99.7 | 80.0 | 120 | --- |
| Nickel, dissolved | 7440-02-0 | E421 | 0.0005 | mg/L | 0.5 mg/L | 99.1 | 80.0 | 120 | --- |
| Phosphorus, dissolved | 7723-14-0 | E421 | 0.05 | mg/L | 10 mg/L | 113 | 80.0 | 120 | --- |
| Potassium, dissolved | 7440-09-7 | E421 | 0.05 | mg/L | 50 mg/L | 104 | 80.0 | 120 | --- |
| Rubidium, dissolved | 7440-17-7 | E421 | 0.0002 | mg/L | 0.1 mg/L | 97.5 | 80.0 | 120 | --- |
| Selenium, dissolved | 7782-49-2 | E421 | 0.00005 | mg/L | 1 mg/L | 97.2 | 80.0 | 120 | --- |
| Silicon, dissolved | 7440-21-3 | E421 | 0.05 | mg/L | 10 mg/L | 108 | 80.0 | 120 | --- |
| Silver, dissolved | 7440-22-4 | E421 | 0.00001 | mg/L | 0.1 mg/L | 91.5 | 80.0 | 120 | --- |
| Sodium, dissolved | 7440-23-5 | E421 | 0.05 | mg/L | 50 mg/L | 99.8 | 80.0 | 120 | --- |
| Strontium, dissolved | 7440-24-6 | E421 | 0.0002 | mg/L | 0.25 mg/L | 101 | 80.0 | 120 | --- |
| Sulfur, dissolved | 7704-34-9 | E421 | 0.5 | mg/L | 50 mg/L | 101 | 80.0 | 120 | --- |

| Sub-Matrix: Water | | | | | Laboratory Control Sample (LCS) Report | | | | | |
|---|------------|--------|----------|------|--|--------------|---------------------|------|-----------|--|
| | | | | | Spike | Recovery (%) | Recovery Limits (%) | | | |
| Analyte | CAS Number | Method | LOR | Unit | Target Concentration | LCS | Low | High | Qualifier | |
| Dissolved Metals (QC Lot: 1441446) - continued | | | | | | | | | | |
| Tellurium, dissolved | 13494-80-9 | E421 | 0.0002 | mg/L | 0.1 mg/L | 101 | 80.0 | 120 | ---- | |
| Thallium, dissolved | 7440-28-0 | E421 | 0.00001 | mg/L | 1 mg/L | 96.9 | 80.0 | 120 | ---- | |
| Thorium, dissolved | 7440-29-1 | E421 | 0.0001 | mg/L | 0.1 mg/L | 99.7 | 80.0 | 120 | ---- | |
| Tin, dissolved | 7440-31-5 | E421 | 0.0001 | mg/L | 0.5 mg/L | 97.5 | 80.0 | 120 | ---- | |
| Titanium, dissolved | 7440-32-6 | E421 | 0.0003 | mg/L | 0.25 mg/L | 102 | 80.0 | 120 | ---- | |
| Tungsten, dissolved | 7440-33-7 | E421 | 0.0001 | mg/L | 0.1 mg/L | 101 | 80.0 | 120 | ---- | |
| Uranium, dissolved | 7440-61-1 | E421 | 0.00001 | mg/L | 0.005 mg/L | 103 | 80.0 | 120 | ---- | |
| Vanadium, dissolved | 7440-62-2 | E421 | 0.0005 | mg/L | 0.5 mg/L | 102 | 80.0 | 120 | ---- | |
| Zinc, dissolved | 7440-66-6 | E421 | 0.001 | mg/L | 0.5 mg/L | 97.6 | 80.0 | 120 | ---- | |
| Zirconium, dissolved | 7440-67-7 | E421 | 0.0002 | mg/L | 0.1 mg/L | 98.6 | 80.0 | 120 | ---- | |
| Mercury, dissolved | 7439-97-6 | E509 | 0.000005 | mg/L | 0 mg/L | 95.2 | 80.0 | 120 | ---- | |
| Speciated Metals (QC Lot: 1447077) | | | | | | | | | | |
| Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532 | 0.0005 | mg/L | 0.25 mg/L | 104 | 80.0 | 120 | ---- | |



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Water

| Matrix Spike (MS) Report | | | | | | | | | | |
|---|------------------|---------------------------------|------------|------------|---------------|-----------|--------------|---------------------|------|-----------|
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Spike | | Recovery (%) | Recovery Limits (%) | | Qualifier |
| | | | | | Concentration | Target | MS | Low | High | |
| Anions and Nutrients (QC Lot: 1445095) | | | | | | | | | | |
| VA24B0516-002 | Anonymous | Sulfate (as SO ₄) | 14808-79-8 | E235.SO4 | 103 mg/L | 100 mg/L | 103 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1445096) | | | | | | | | | | |
| VA24B0516-002 | Anonymous | Chloride | 16887-00-6 | E235.Cl | 104 mg/L | 100 mg/L | 104 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1445097) | | | | | | | | | | |
| VA24B0516-002 | Anonymous | Nitrate (as N) | 14797-55-8 | E235.NO3-L | 2.60 mg/L | 2.5 mg/L | 104 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1445098) | | | | | | | | | | |
| VA24B0516-002 | Anonymous | Nitrite (as N) | 14797-65-0 | E235.NO2-L | 0.496 mg/L | 0.5 mg/L | 99.1 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1445099) | | | | | | | | | | |
| VA24B0516-002 | Anonymous | Fluoride | 16984-48-8 | E235.F | 1.02 mg/L | 1 mg/L | 102 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1445100) | | | | | | | | | | |
| VA24B0516-002 | Anonymous | Bromide | 24959-67-9 | E235.Br-L | 0.524 mg/L | 0.5 mg/L | 105 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1450675) | | | | | | | | | | |
| VA24B0556-001 | Anonymous | Nitrogen, total | 7727-37-9 | E366 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| Anions and Nutrients (QC Lot: 1450676) | | | | | | | | | | |
| VA24B0556-001 | Anonymous | Ammonia, total (as N) | 7664-41-7 | E298 | 0.107 mg/L | 0.1 mg/L | 107 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1450677) | | | | | | | | | | |
| VA24B0556-001 | Anonymous | Phosphorus, total | 7723-14-0 | E372-U | 0.0488 mg/L | 0.05 mg/L | 97.5 | 70.0 | 130 | --- |
| Organic / Inorganic Carbon (QC Lot: 1450680) | | | | | | | | | | |
| VA24B0556-002 | Anonymous | Carbon, dissolved organic [DOC] | ---- | E358-L | 4.68 mg/L | 5 mg/L | 93.6 | 70.0 | 130 | --- |
| Total Sulfides (QC Lot: 1447663) | | | | | | | | | | |
| CG2406308-002 | Anonymous | Sulfide, total (as S) | 18496-25-8 | E395 | ND mg/L | ---- | ND | 75.0 | 125 | --- |
| Total Metals (QC Lot: 1441500) | | | | | | | | | | |
| VA24B0589-001 | Anonymous | Aluminum, total | 7429-90-5 | E420 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Antimony, total | 7440-36-0 | E420 | 0.0397 mg/L | 0.04 mg/L | 99.4 | 70.0 | 130 | --- |
| | | Arsenic, total | 7440-38-2 | E420 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Barium, total | 7440-39-3 | E420 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Beryllium, total | 7440-41-7 | E420 | 0.0676 mg/L | 0.08 mg/L | 84.4 | 70.0 | 130 | --- |
| | | Bismuth, total | 7440-69-9 | E420 | 0.0171 mg/L | 0.02 mg/L | 85.7 | 70.0 | 130 | --- |
| | | Boron, total | 7440-42-8 | E420 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Cadmium, total | 7440-43-9 | E420 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Calcium, total | 7440-70-2 | E420 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Cesium, total | 7440-46-2 | E420 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Chromium, total | 7440-47-3 | E420 | 0.0705 mg/L | 0.08 mg/L | 88.1 | 70.0 | 130 | --- |



Sub-Matrix: Water

| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Matrix Spike (MS) Report | | | | | | Qualifier | |
|---|------------------|----------------------|------------|--------|--------------------------|------------|--------------|---------------------|-----|------|-----------|--|
| | | | | | Spike | | Recovery (%) | Recovery Limits (%) | | | | |
| | | | | | Concentration | Target | | MS | Low | High | | |
| Total Metals (QC Lot: 1441500) - continued | | | | | | | | | | | | |
| VA24B0589-001 | Anonymous | Cobalt, total | 7440-48-4 | E420 | 0.0334 mg/L | 0.04 mg/L | 83.4 | 70.0 | 130 | --- | --- | |
| | | Copper, total | 7440-50-8 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Iron, total | 7439-89-6 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Lead, total | 7439-92-1 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Lithium, total | 7439-93-2 | E420 | 0.174 mg/L | 0.2 mg/L | 86.8 | 70.0 | 130 | --- | --- | |
| | | Magnesium, total | 7439-95-4 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Manganese, total | 7439-96-5 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Molybdenum, total | 7439-98-7 | E420 | 0.0399 mg/L | 0.04 mg/L | 99.8 | 70.0 | 130 | --- | --- | |
| | | Nickel, total | 7440-02-0 | E420 | 0.0682 mg/L | 0.08 mg/L | 85.2 | 70.0 | 130 | --- | --- | |
| | | Phosphorus, total | 7723-14-0 | E420 | 19.9 mg/L | 20 mg/L | 99.6 | 70.0 | 130 | --- | --- | |
| | | Potassium, total | 7440-09-7 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Rubidium, total | 7440-17-7 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Selenium, total | 7782-49-2 | E420 | 0.0762 mg/L | 0.08 mg/L | 95.2 | 70.0 | 130 | --- | --- | |
| | | Silicon, total | 7440-21-3 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Silver, total | 7440-22-4 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Sodium, total | 7440-23-5 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Strontium, total | 7440-24-6 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Sulfur, total | 7704-34-9 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Tellurium, total | 13494-80-9 | E420 | 0.0830 mg/L | 0.08 mg/L | 104 | 70.0 | 130 | --- | --- | |
| | | Thallium, total | 7440-28-0 | E420 | 0.00671 mg/L | 0.008 mg/L | 83.9 | 70.0 | 130 | --- | --- | |
| | | Thorium, total | 7440-29-1 | E420 | 0.0372 mg/L | 0.04 mg/L | 93.1 | 70.0 | 130 | --- | --- | |
| | | Tin, total | 7440-31-5 | E420 | 0.0383 mg/L | 0.04 mg/L | 95.9 | 70.0 | 130 | --- | --- | |
| | | Titanium, total | 7440-32-6 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Tungsten, total | 7440-33-7 | E420 | 0.0353 mg/L | 0.04 mg/L | 88.2 | 70.0 | 130 | --- | --- | |
| | | Uranium, total | 7440-61-1 | E420 | 0.00677 mg/L | 0.008 mg/L | 84.6 | 70.0 | 130 | --- | --- | |
| | | Vanadium, total | 7440-62-2 | E420 | 0.187 mg/L | 0.2 mg/L | 93.4 | 70.0 | 130 | --- | --- | |
| | | Zinc, total | 7440-66-6 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Zirconium, total | 7440-67-7 | E420 | 0.0847 mg/L | 0.08 mg/L | 106 | 70.0 | 130 | --- | --- | |
| Total Metals (QC Lot: 1444787) | | | | | | | | | | | | |
| VA24B0555-005 | Anonymous | Mercury, total | 7439-97-6 | E508 | 0.0000902 mg/L | 0 mg/L | 90.2 | 70.0 | 130 | --- | --- | |
| Dissolved Metals (QC Lot: 1441446) | | | | | | | | | | | | |
| KS2401675-002 | Anonymous | Aluminum, dissolved | 7429-90-5 | E421 | 0.202 mg/L | 0.2 mg/L | 101 | 70.0 | 130 | --- | --- | |
| | | Antimony, dissolved | 7440-36-0 | E421 | 0.0197 mg/L | 0.02 mg/L | 98.4 | 70.0 | 130 | --- | --- | |
| | | Arsenic, dissolved | 7440-38-2 | E421 | 0.0202 mg/L | 0.02 mg/L | 101 | 70.0 | 130 | --- | --- | |
| | | Barium, dissolved | 7440-39-3 | E421 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Beryllium, dissolved | 7440-41-7 | E421 | 0.0396 mg/L | 0.04 mg/L | 98.9 | 70.0 | 130 | --- | --- | |
| | | Bismuth, dissolved | 7440-69-9 | E421 | 0.00967 mg/L | 0.01 mg/L | 96.7 | 70.0 | 130 | --- | --- | |
| | | Boron, dissolved | 7440-42-8 | E421 | 0.095 mg/L | 0.1 mg/L | 95.2 | 70.0 | 130 | --- | --- | |
| | | Cadmium, dissolved | 7440-43-9 | E421 | 0.00390 mg/L | 0.004 mg/L | 97.5 | 70.0 | 130 | --- | --- | |
| | | Calcium, dissolved | 7440-70-2 | E421 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Cesium, dissolved | 7440-46-2 | E421 | 0.0102 mg/L | 0.01 mg/L | 102 | 70.0 | 130 | --- | --- | |
| | | Chromium, dissolved | 7440-47-3 | E421 | 0.0391 mg/L | 0.04 mg/L | 97.8 | 70.0 | 130 | --- | --- | |
| | | Cobalt, dissolved | 7440-48-4 | E421 | 0.0197 mg/L | 0.02 mg/L | 98.5 | 70.0 | 130 | --- | --- | |



Sub-Matrix: Water

| | | | | | Matrix Spike (MS) Report | | | | | |
|--|------------------|-------------------------------------|------------|--------|--------------------------|------------|--------------|---------------------|------|-----------|
| | | | | | Spike | | Recovery (%) | Recovery Limits (%) | | |
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Concentration | Target | MS | Low | High | Qualifier |
| Dissolved Metals (QCLot: 1441446) - continued | | | | | | | | | | |
| KS2401675-002 | Anonymous | Copper, dissolved | 7440-50-8 | E421 | 0.0189 mg/L | 0.02 mg/L | 94.5 | 70.0 | 130 | --- |
| | | Iron, dissolved | 7439-89-6 | E421 | 1.88 mg/L | 2 mg/L | 93.8 | 70.0 | 130 | --- |
| | | Lead, dissolved | 7439-92-1 | E421 | 0.0195 mg/L | 0.02 mg/L | 97.5 | 70.0 | 130 | --- |
| | | Lithium, dissolved | 7439-93-2 | E421 | 0.0961 mg/L | 0.1 mg/L | 96.1 | 70.0 | 130 | --- |
| | | Magnesium, dissolved | 7439-95-4 | E421 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Manganese, dissolved | 7439-96-5 | E421 | 0.0196 mg/L | 0.02 mg/L | 98.0 | 70.0 | 130 | --- |
| | | Molybdenum, dissolved | 7439-98-7 | E421 | 0.0199 mg/L | 0.02 mg/L | 99.5 | 70.0 | 130 | --- |
| | | Nickel, dissolved | 7440-02-0 | E421 | 0.0394 mg/L | 0.04 mg/L | 98.4 | 70.0 | 130 | --- |
| | | Phosphorus, dissolved | 7723-14-0 | E421 | 10.1 mg/L | 10 mg/L | 101 | 70.0 | 130 | --- |
| | | Potassium, dissolved | 7440-09-7 | E421 | 3.93 mg/L | 4 mg/L | 98.3 | 70.0 | 130 | --- |
| | | Rubidium, dissolved | 7440-17-7 | E421 | 0.0195 mg/L | 0.02 mg/L | 97.3 | 70.0 | 130 | --- |
| | | Selenium, dissolved | 7782-49-2 | E421 | 0.0390 mg/L | 0.04 mg/L | 97.4 | 70.0 | 130 | --- |
| | | Silicon, dissolved | 7440-21-3 | E421 | 9.45 mg/L | 10 mg/L | 94.5 | 70.0 | 130 | --- |
| | | Silver, dissolved | 7440-22-4 | E421 | 0.00399 mg/L | 0.004 mg/L | 99.8 | 70.0 | 130 | --- |
| | | Sodium, dissolved | 7440-23-5 | E421 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Strontium, dissolved | 7440-24-6 | E421 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Sulfur, dissolved | 7704-34-9 | E421 | 19.2 mg/L | 20 mg/L | 96.1 | 70.0 | 130 | --- |
| | | Tellurium, dissolved | 13494-80-9 | E421 | 0.0417 mg/L | 0.04 mg/L | 104 | 70.0 | 130 | --- |
| | | Thallium, dissolved | 7440-28-0 | E421 | 0.00384 mg/L | 0.004 mg/L | 95.9 | 70.0 | 130 | --- |
| | | Thorium, dissolved | 7440-29-1 | E421 | 0.0195 mg/L | 0.02 mg/L | 97.3 | 70.0 | 130 | --- |
| | | Tin, dissolved | 7440-31-5 | E421 | 0.0194 mg/L | 0.02 mg/L | 96.8 | 70.0 | 130 | --- |
| | | Titanium, dissolved | 7440-32-6 | E421 | 0.0390 mg/L | 0.04 mg/L | 97.5 | 70.0 | 130 | --- |
| | | Tungsten, dissolved | 7440-33-7 | E421 | 0.0197 mg/L | 0.02 mg/L | 98.5 | 70.0 | 130 | --- |
| | | Uranium, dissolved | 7440-61-1 | E421 | 0.00393 mg/L | 0.004 mg/L | 98.2 | 70.0 | 130 | --- |
| | | Vanadium, dissolved | 7440-62-2 | E421 | 0.0990 mg/L | 0.1 mg/L | 99.0 | 70.0 | 130 | --- |
| | | Zinc, dissolved | 7440-66-6 | E421 | 0.399 mg/L | 0.4 mg/L | 99.8 | 70.0 | 130 | --- |
| | | Zirconium, dissolved | 7440-67-7 | E421 | 0.0388 mg/L | 0.04 mg/L | 97.1 | 70.0 | 130 | --- |
| Dissolved Metals (QCLot: 1445296) | | | | | | | | | | |
| VA24B0560-003 | Anonymous | Mercury, dissolved | 7439-97-6 | E509 | 0.0000950 mg/L | 0 mg/L | 95.0 | 70.0 | 130 | --- |
| Speciated Metals (QCLot: 1447077) | | | | | | | | | | |
| VA24B0506-011 | Anonymous | Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532 | 0.258 mg/L | 0.25 mg/L | 103 | 70.0 | 130 | --- |

**Chain of Custody (COC) / Analytical
Request Form**



Canada Toll Free: 1 800 668 9878

COC Number: 17 -

Affix ALS barcode label here

(lab use only)

Page 1 of

| | | | | | | | | | | | | | | | | |
|--|---|---|--|---|----------------------------|---------------------------|----------------------------|--------------|---|---|---|--|---------------------------------|--------------|-----------------|----------------------|
| Report To Contact and company name below will appear on the final report | | Report Format / Distribution | | Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply) | | | | | | | | | | | | |
| Company: | Triton Environmental | Select Report Format: | <input checked="" type="checkbox"/> PDF <input type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL) | Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply | | | | | | | | | | | | |
| Contact: | | Quality Control (QC) Report with Report | <input type="checkbox"/> <input checked="" type="checkbox"/> NO | 4 day [P4-20%] <input type="checkbox"/> 3 day [P3-25%] <input type="checkbox"/> 2 day [P2-50%] <input type="checkbox"/> | | | | | | | | | | | | |
| Phone: | n the final report | Compare Results to Criteria on Report - provide details below if box checked | EMERGENCY 1 Business day [E1 - 100%] Same Day, Weekend or Statutory holiday [E2 - 200% (Laboratory opening fees may apply)] | | | | | | | | | | | | | |
| Street: | | Select Distribution: | <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX | Date and Time Required for all E&P TATs: dd-mm-yy hh:mm | | | | | | | | | | | | |
| City/Province: | | Email 1 or Fax | or tests that can not be performed according to the service level selected, you will be contacted. | | | | | | | | | | | | | |
| Postal Code: | | Email 2 | | | | | | | | | | | | | | |
| Email 3 | | | | | | | | | | | | | | | | |
| Invoice To | Same as Report To <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | Invoice Distribution | | Analysis Request | | | | | | | | | | | | |
| | Copy of Invoice with Report <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | Select Invoice Distribution: | <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below | | | | | | | | | | | | |
| Company: | | Email 1 or Fax | F | | | | P | P | | | | | | | | |
| Contact: | | Email 2 | | | | | | | | | | | | | | |
| Project Information | | Oil and Gas Required Fields (client use) | | | | | | | | | | | | | | |
| ALS Account # / Quote #: | VA23-TRIT100-005-012 | AFE/Cost Center: | PO# | Total metals + mercury | Dissolved metals + mercury | Total hexavalent chromium | Total tetravalent chromium | TSS | TDS | Nutrients (ammonia, ammonium, total nitrogen, total phosphorus) | Total sulfide (as H2S), Unionized Sulfide | Anions scan (Br, Cl, F, NO2, NO3, SO4) | General parameters (alkalinity) | DOC | SAMPLES ON HOLD | NUMBER OF CONTAINERS |
| Job #: | 11964 | Major/Minor Code: | Routing Code: | | | | | | | | | | | | | |
| PO / AFE: | 11964 - Task 20 - Phase 3C-4C | Requisitioner: | | | | | | | | | | | | | | |
| LSD: | | Location: | | | | | | | | | | | | | | |
| ALS Lab Work Order #: (lab use only): | | ALS Contact: | Sampler: | | | | | | | | | | | | | |
| ALS Sample #: (lab use only) | Sample Identification and/or Coordinates (This description will appear on the report) | | Date (dd-mmm-yy) | Time (hh:mm) | Sample Type | | | | | | | | | | | |
| | SQU US 1 | | 13 May 24 | 0942 | Water | R | R | R | R | R | R | R | R | R | R | N 9 |
| | pH: 7.54 cond: 34 us/cm temp: 9.6°C | | 13 May 24 | 0942 | | | | | | | | | | | | |
| | SQU DS 1 | | 13 May 24 | 1020 | Water | R | R | R | R | R | R | R | R | R | R | N 9 |
| | pH: 7.36 cond: 31 us/cm temp: 9.6°C | | | | Water | R | R | R | R | R | R | R | R | R | R | N 9 |
| | Duplicate N/A | | | | Water | R | R | R | R | R | R | R | R | R | R | N 9 |
| | Field Blank N/A | | | | Water | R | R | R | R | R | R | R | R | R | R | N 9 |
| | Trip Blank N/A | | | | Water | R | R | R | R | R | R | R | R | R | R | N 6 |
| Drinking Water (DW) Samples¹ (client use) | | Special Instructions / Specify C: | | | | | | | | | | | | | | |
| Are samples taken from a Regulated DW System? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes | | in list below | | | | | | | | | | | | | | |
| Are samples for human consumption/ use? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes | | SAMPLE CONDITION AS RECEIVED (lab use only) | | | | | | | | | | | | | | |
| | | Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Packs <input checked="" type="checkbox"/> Ice Cubes Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/> Cooling Initiated <input type="checkbox"/> | | | | | | | | | | | | | | |
| | | INITIAL COOLER TEMPERATURES °C | | | | | | | FINAL COOLER TEMPERATURES °C | | | | | | | |
| | | 12 | | | | | | | 12 | | | | | | | |
| SHIPMENT RELEASE (client use) | | INITIAL SHIPMENT RECEIPTION (lab use only) | | | | | | | FINAL SHIPMENT RECEIPTION (lab use only) | | | | | | | |
| Released by: | 13 May 24 | Time: 1300 | Received by: | Date: | Time: | Received by: | Time: | Received by: | Date: | Time: | Received by: | Date: | Time: | Received by: | Date: | Time: |

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY

YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

SEPT 2017 FRONT

| | | |
|---|--|---|
|  FORTIS BC™ | Eagle Mountain - Woodfibre Gas Pipeline Project | May 13th to May 19th, 2024 |
| | Report # | 8 |
| | Appendix B | B-4 |

BCR Site Receiving Environment Field Notes and Logs

| | | | | |
|----------------------------|------------|----------------------------|---|-------------|
| Project Component: | Tunnel | Site Name: | Receiving Environment - Upstream of Discharge | |
| Inspection Date: | 05/13/2024 | Location: | BC Rail Site | |
| Triton QP: | Wade Britz | Latitude/Longitude: | 49.726866 | -123.163912 |
| Temperature(c): | Low 8 | High 18 | Permit: AE 111824 | |
| Weather Conditions: | Overcast | Ground Conditions: | Dry | |

Observations

Time: 09:41:00 **Flow Volume (visual):** high

Notes: Flow and water level higher than normal

Odour Detected?: No **Notes:**

Unusual Colour? Yes **Notes:**

Unusual Observations? No **Notes:** Slightly turbid water

Sheen on Water? No **Notes:**

Samples Collected - Parameters

| | | | | |
|-----------------------------------|-----|---|-----|-----------------------|
| Total Metals + Mercury | Yes | General Parameters (Alkalinity) | Yes | Other Sample: |
| Dissolved Metals + Mercury | Yes | Total Sulfide, Unionized Sulfide | Yes | Total CrVI |
| TSS | Yes | Anions | Yes | |
| TDS | Yes | VOC/VPH | N/A | QA Samples: No |
| Nutrients | Yes | EPH, PAH, LEPH/HEPH | N/A | Total CrVI |
| DOC | Yes | Trout LC50 | N/A | |

Logger Maintenance

| | | | |
|--------------------------------------|-----|---|-----|
| Logger Maintenance Performed? | Yes | Photo of COC with Lab Signature? | Yes |
|--------------------------------------|-----|---|-----|

Describe Logger Maintenance

Cleaned sensor and casing

Photos



Photo:

1

Location:

SQU US1

Description:

Downstream view

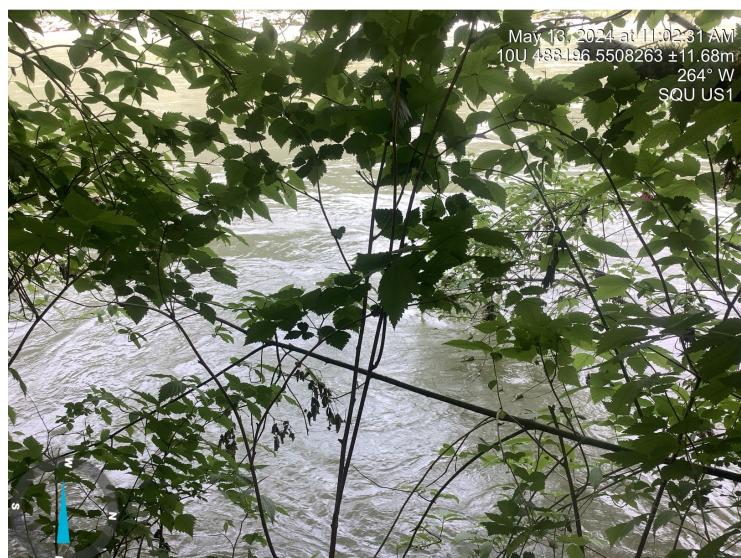


Photo:

2

Location:

SQU US1

Description:

Across view

Photos



Photo: 3
Location: SQU US1
Description: Upstream view

Photo: 4
Location: SQU
Description: CoC

Sign Off

Report Prepared By: Wade Britz

Report Reviewer:

Name:

Designation:

Designation Number:

Report Reviewed:

Professional(s) of Record:

| | | | | |
|----------------------------|------------|----------------------------|---|-------------|
| Project Component: | Tunnel | Site Name: | Receiving Environment - Downstream of Discharge | |
| Inspection Date: | 05/13/2024 | Location: | BC Rail Site | |
| Triton QP: | Wade Britz | Latitude/Longitude: | 49.725282 | -123.165175 |
| Temperature(c): | Low 8 | High 18 | Permit: AE 111824 | |
| Weather Conditions: | Overcast | Ground Conditions: | Dry | |

Observations

Time: 10:47:42 **Flow Volume (visual):** high

Notes: Flow and water level higher than normal

Odour Detected?: No **Notes:**

Unusual Colour? Yes **Notes:**

Unusual Observations? No **Notes:** Slightly turbid water

Sheen on Water? No **Notes:**

Samples Collected - Parameters

| | | | | |
|----------------------------|-----|----------------------------------|-----|-----------------------|
| Total Metals + Mercury | Yes | General Parameters (Alkalinity) | Yes | Other Sample: |
| Dissolved Metals + Mercury | Yes | Total Sulfide, Unionized Sulfide | Yes | Total CrVI |
| TSS | Yes | Anions | Yes | |
| TDS | Yes | VOC/VPH | N/A | QA Samples: No |
| Nutrients | Yes | EPH, PAH, LEPH/HEPH | N/A | Total CrVI |
| DOC | Yes | Trout LC50 | N/A | |

Logger Maintenance

| | | | |
|--------------------------------------|-----|---|-----|
| Logger Maintenance Performed? | Yes | Photo of COC with Lab Signature? | Yes |
|--------------------------------------|-----|---|-----|

Describe Logger Maintenance

Cleaned sensor and casing

Photos



Photo: 1

Location: SQU DS1

Description: Downstream view



Photo: 2

Location: SQU DS1

Description: Across view

Photos



Photo: 3
Location: SQU DS1
Description: Upstream view

May 13, 2024 at 11:09:55 AM
 10U 488268 5508332 ±31.66m
 51° NE
 DOC Number: 17 -

| | | |
|--|--|------------------------------|
| Chain of Custody (COC) / Analytical Request Form | | Affix ALS barcode label here |
| Canada Toll Free: 1 800 666 9478 | | |
| <input type="checkbox"/> Select Report Format: <input checked="" type="checkbox"/> PDF <input type="checkbox"/> Docx <input type="checkbox"/> RTF <input type="checkbox"/> Word Document | | |
| <input type="checkbox"/> Quality Control (QC) Report with Report <input checked="" type="checkbox"/> NO | | |
| <input type="checkbox"/> General Results or Chemical Report <input checked="" type="checkbox"/> Detailed Results or Chemical Report <input type="checkbox"/> Test Data Only <input type="checkbox"/> No QC check | | |
| <input type="checkbox"/> 4 day (P4-29%) <input checked="" type="checkbox"/> 5 day (P5-29%) <input type="checkbox"/> 6 day (P6-29%) <input type="checkbox"/> 7 day (P7-29%) <input type="checkbox"/> 8 day (P8-29%) <input type="checkbox"/> 9 day (P9-29%) <input type="checkbox"/> 10 day (P10-29%) <input type="checkbox"/> 11 day (P11-29%) <input type="checkbox"/> 12 day (P12-29%) <input type="checkbox"/> 13 day (P13-29%) <input type="checkbox"/> 14 day (P14-29%) <input type="checkbox"/> 15 day (P15-29%) <input type="checkbox"/> 16 day (P16-29%) <input type="checkbox"/> 17 day (P17-29%) <input type="checkbox"/> 18 day (P18-29%) <input type="checkbox"/> 19 day (P19-29%) <input type="checkbox"/> 20 day (P20-29%) <input type="checkbox"/> 21 day (P21-29%) <input type="checkbox"/> 22 day (P22-29%) <input type="checkbox"/> 23 day (P23-29%) <input type="checkbox"/> 24 day (P24-29%) <input type="checkbox"/> 25 day (P25-29%) <input type="checkbox"/> 26 day (P26-29%) <input type="checkbox"/> 27 day 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Sign Off

Report Prepared By: Wade Britz

Report Reviewer:

Name:

Designation:

Designation Number:

Report Reviewed:

Professional(s) of Record:

| | | |
|---|--|---|
|  FORTIS BC™ | Eagle Mountain - Woodfibre Gas Pipeline Project | May 13th to May 19th, 2024 |
| | Report # | 8 |
| | Appendix C | C-1 |

Appendix C: Woodfibre Site Point of Discharge from Water Treatment Plant Documentation



**Eagle Mountain - Woodfibre Gas Pipeline Project
Waste Discharge Permit PE-110163 Report**

| | |
|----------------|---|
| Reporting Week | May 13 th to May 19 th , 2024 |
| Report # | 8 |
| Appendix C | C-2 |

Woodfibre Site Batch Sample Analysis

| | | | |
|---|--|-----------------------|---|
|  FORTIS BC™ | Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report | Reporting Week | May 13th to May 19th, 2024 |
| | Report # | 8 | |
| | Appendix C | C-3 | |

Woodfibre Site Batch Sample Lab Documentation

| | | |
|---|--|---|
|  FORTIS BC™ | Eagle Mountain - Woodfibre Gas Pipeline Project | May 13th to May 19th, 2024 |
| | Report # | 8 |
| | Appendix C | C-4 |

Woodfibre Site WTP Discharge Field Notes and Logs

| | | |
|---|--|---|
|  FORTIS BC™ | Eagle Mountain - Woodfibre Gas Pipeline Project | May 13th to May 19th, 2024 |
| | Report # | 8 |
| | Appendix D | D-1 |

Appendix D: Woodfibre Site Receiving Environment Documentation

| | | | |
|---|--|----------------|---|
|  FORTIS BC™ | Eagle Mountain - Woodfibre Gas Pipeline Project Waste Discharge Permit PE-110163 Report | Reporting Week | May 13 th to May 19 th , 2024 |
| | Report # | 8 | |
| | Appendix D | D-2 | |

Woodfibre Site Receiving Environment Sample Analysis

| TRITON | | Sample ID LAB ID | Reviewed and signed off by | WILNG US-1 (Upstream) VA040809-002 VA040809-001 | WILNG DS-1 (Downstream) VA040809-002 VA040809-001 | Sample or value notes | BCWQ FAL - Short Term | BCWQ FAL - Long Term | BCWQ MAL - Short Term | BCWQ MAL - Long Term |
|---|---|---|---|---|--|-----------------------|--|---|---|---|
| Analyte | Units | BCAWWQ-FAL-LT ¹² | BCAWWQ-FAL-ST ¹² | BCAWWQ-MAL-ST ¹² | BCAWWQ-MAL-LT ¹² | BCR USI N/A | BCR DS1 N/A | BCR DS1 N/A | BCR DS1 N/A | BCR DS1 N/A |
| In-Situ Parameters | | | | | | | | | | |
| pH (feld) | pH Units | 8.5-9.0 | 8.5-9.0 | 7.0-8.7 | 7.0-8.7 | 7.04 | The upstream location is below the water table and long-term BCWQ for MAL. | | | Unrestricted change within this range (protection of medium waterbody). |
| Temperature (feld) | °C | - | Max <1° from BCR 1°C, hourly rate of change >0.5°C. NTU | Max <1° from BCR 1°C, hourly rate of change >0.5°C. NTU | - | 10.5 | 11 | | | |
| Turbidity (feld) | NTU | Values with background, see note Lowest value for guideline is 3 NTU | Values with background, see note Lowest value for guideline is 0 NTU | Values with background, see note Lowest value for guideline is 0 NTU | Values with background, see note Lowest value for guideline is 0 NTU | 0.37 | 0.14 | | | |
| Dissolved Oxygen (feld) | mg/L | Values with the stage, see note | Values with the stage, see note | Values with the stage, see note | Values with the stage, see note | 9.09 | 9.23 | Burned embryoprotein minimum 0 mg/L... all other life stages 0 mg/L. Refer to BC Water Quality Guidelines for more information. | Burned embryoprotein minimum 0 mg/L... all other life stages 0 mg/L. Refer to BC Water Quality Guidelines for more information. | Burned embryoprotein minimum 1 mg/L... all other life stages 0 mg/L. Refer to BC Water Quality Guidelines for more information. |
| General Parameters | | | | | | | | | | |
| Hardness (as CaCO ₃) (mg/L) | - | - | - | - | - | 8.88 | 7 | | | |
| Total Dissolved Solids (mg/L) | - | - | - | - | - | 60 | 21 | | | |
| Total Suspended Solids (mg/L) | - | Values with background, see note Lowest value for guideline is 0 mg/L | Values with background, see note Lowest value for guideline is 0 mg/L | Values with background, see note Lowest value for guideline is 20 mg/L | Values with background, see note Lowest value for guideline is 0 mg/L | < 3.0 | 4.2 | | | |
| Dissolved Organic Carbon (DOC) | mg/L | - | - | - | - | 2.05 | 2.84 | | | |
| Total Alkalinity (CaCO ₃) | mg/L | Categorical | - | - | - | 7.3 | 7.4 | The upstream and downstream locations have high sensitivity to acid inputs (i.e. low buffering capacity). | | |
| Total Sulfate (as SO ₄) | mg/L | 0.002 | - | - | - | < 0.0015 | < 0.0015 | | | |
| Total Sulfide (as H ₂ S) | mg/L | - | - | - | - | < 0.0015 | < 0.0016 | | | |
| Nutrients and Nutrients | | | | | | | | | | |
| Ammonia (mg/L ammonia-N) | mg/L ammonia-N | Values with pH and temperature. See note. | Values with pH and temperature. See note. | Values with pH, temperature and salinity. See note. | Values with pH, temperature and salinity. See note. | < 0.0050 | < 0.0050 | Guideline for ammonia as N and is pH and temperature dependent. Refer to Table 27D in BC WQG for guideline values. | Guideline for ammonia as N and is pH and temperature dependent. Refer to Table 27D in BC WQG for guideline values. | Guideline for ammonia as N. Guideline is pH, temperature and salinity dependent. Refer to Table 27F in BC WQG for guideline values. |
| Ammonium | mg/L | - | - | - | - | 0.0250 | 0.0250 | | | |
| Chloride | mg/L | 150 | 600 | > 110% of background | < 90% of background | 0.55 | 0.53 | | | |
| Fluoride | mg/L | - | Values with hardness | - | - | 0.02 | 0.021 | Guideline for hardness range below: | Guideline for hardness range below: | |
| Silicate (as Si) | mg/L | - | 3.0 | - | - | 3.7 | 3.000 | Guideline for hardness range above: | Guideline for hardness range above: | |
| Alkaline (as Na) | mg/L | Values with chloride. See note. | Values with chloride. See note. | - | - | < 4.0000 | < 4.0000 | Values with chloride. Refer to Table 17B in BC WQG for guideline values. | Values with chloride. Refer to Table 17B in BC WQG for guideline values. | |
| Total Nitrogen | mg/L | - | - | - | - | 0.002 | 0.001 | | | |
| Total Phosphorous | mg/L | 0.000 to 0.015 | - | - | - | 0.0116 | 0.0094 | | | |
| Sulfate (as SO ₄) | mg/L | Values with hardness. See note | - | - | - | 1.9 | 2.01 | | | |
| Total Metals | | | | | | | | | | |
| Antimony (Sb)-Total | mg/L | Values with pH, DOC, hardness | - | - | - | 0.0057 | 0.0264 | Note that the upstream hardness value below the limits of the LT guideline equation. The minimum hardness of 10 mg/L is required for the downstream location to be considered for FAL. When entered in the 5-week average long-term BCWQ for MAL, the upstream location remains below the background level. | Guideline variance with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated with the following equation: Guideline = (0.00001 * (HARDNESS) + (0.00001 * (DOC)) + (0.00001 * pH)) + (0.284 * (SALT/hardness)) + (0.00001 * (TDS/hardness)). If hardness is below the background range, the minimum hardness will be applied in the calculation. | Human activities should not cause the addition of marine and estuarine waters to fluctuate by more than 10% of the natural chloride expected at that time and depth. |
| Antimony (Sb)-Total | mg/L | - | - | - | - | 0.0051 | 0.0051 | | | Intern guideline status |
| Antimony (Sb)-Total | mg/L | 0.005 | - | - | - | 0.0125 | 0.0011 | | | Working guideline status |
| Barium (Ba)-Total | mg/L | - | - | - | - | 0.00013 | 0.00013 | | | Working guideline status |
| Boron (B)-Total | mg/L | - | - | - | - | 0.0001 | 0.0001 | | | Working guideline status |
| Cadmium (Cd)-Total | mg/L | - | - | - | - | 0.00012 | 0.00008 | | | Working guideline status |
| Cesium (Cs)-Total | mg/L | - | - | - | - | 0.00012 | 0.00012 | | | Working guideline status |
| Chromium (Cr)-Total | mg/L | - | - | - | - | 0.00012 | 0.00012 | | | Working guideline status |
| Chromium (Cr)-Total | mg/L | 0.0008 | - | - | - | 0.0008 | 0.0008 | | | Working guideline status |
| Cobalt (Co)-Total | mg/L | 0.004 | 0.11 | - | - | 0.0010 | 0.0010 | | | Working guideline status |
| Copper (Cu)-Total | mg/L | - | - | - | - | 0.003 | 0.002 | Guideline variance with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated with the following equation: Guideline = (0.00001 * (HARDNESS) + (0.00001 * (DOC)) + (0.00001 * pH)) + (0.284 * (SALT/hardness)) + (0.00001 * (TDS/hardness)). If hardness is below the background range, the minimum hardness will be applied in the calculation. | Guideline variance with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated with the following equation: Guideline = (0.00001 * (HARDNESS) + (0.00001 * (DOC)) + (0.00001 * pH)) + (0.284 * (SALT/hardness)) + (0.00001 * (TDS/hardness)). If hardness is below the background range, the minimum hardness will be applied in the calculation. | Human activities should not cause the addition of marine and estuarine waters to fluctuate by more than 10% of the natural chloride expected at that time and depth. |
| Lead (Pb)-Total | mg/L | Values with hardness. See Note | Values with hardness. See Note | 0.14 | 0.002 | < 0.00050 | < 0.00050 | Guideline variance with hardness, refer to BC Water Quality Guidelines for more information. Guideline is 0.003 where hardness (mg/L) < 100 mg/L. Guideline is 0.001 where hardness (mg/L) >= 100 mg/L. Lowest value for guideline is 0.003 mg/L. | Guideline variance with hardness, refer to BC Water Quality Guidelines for more information. Guideline is 0.001 where hardness (mg/L) < 100 mg/L. Guideline is 0.0001 where hardness (mg/L) >= 100 mg/L. Lowest value for guideline is 0.001 mg/L. | |
| Aluminum(Al)-Total | mg/L | - | - | - | - | 0.0020 | 0.0020 | | | Working guideline status |
| Manganese (Mn)-Total | mg/L | Values with hardness | Values with hardness | - | - | 0.00226 | 0.00227 | Guideline variance with hardness. The guideline is calculated using the following equation: Guideline = (0.00001 * (HARDNESS) + (0.00001 * (DOC))) + (0.00001 * (TDS/hardness)). Lowest value for guideline is 0.00227 mg/L. If hardness is below the background range, the minimum hardness will be applied in the calculation. | Guideline variance with hardness, refer to BC Water Quality Guidelines for more information. Guideline is 0.00227 where hardness (mg/L) < 100 mg/L. Guideline is 0.00027 where hardness (mg/L) >= 100 mg/L. Lowest value for guideline is 0.00227 mg/L. | |
| Mercury (Hg)-Total | mg/L | Values with methyl mercury | - | - | - | < 0.000005 | < 0.000005 | | | Working guideline status. Guideline variance with hardness. |
| Molybdenum (Mo)-Total | mg/L | 7.6 | 46 | - | - | 0.0021 | 0.00209 | | | Working guideline status. Guideline variance with hardness. |
| Nickel (Ni)-Total | mg/L | Values with hardness | - | - | - | 0.0003 | 0.0003 | Guideline variance with hardness. Guideline is 0.0003 where hardness (mg/L) < 100 mg/L. Guideline is 0.00003 where hardness (mg/L) >= 100 mg/L. Lowest value for guideline is 0.0003 mg/L. | Guideline variance with hardness. Guideline is 0.0003 where hardness (mg/L) < 100 mg/L. Guideline is 0.00003 where hardness (mg/L) >= 100 mg/L. Lowest value for guideline is 0.0003 mg/L. | Working guideline status. Guideline variance with hardness. |
| Phosphorous (P)-Total | mg/L | 0.000 to 0.015 | - | - | - | < 0.0050 | < 0.0050 | | | Working guideline status. Guideline variance with hardness. |
| Potassium (K)-Total | mg/L | - | - | - | - | 0.003 | 0.003 | | | Working guideline status. Guideline variance with hardness. |
| Selenium (Se)-Total | mg/L | 0.002 | - | - | - | 0.002 | < 0.00050 | Guideline variance with hardness. Guideline is 0.00050 where hardness (mg/L) < 100 mg/L. Guideline is 0.00005 where hardness (mg/L) >= 100 mg/L. Lowest value for guideline is 0.00005 mg/L. | Guideline variance with hardness. Guideline is 0.00005 where hardness (mg/L) < 100 mg/L. Guideline is 0.000005 where hardness (mg/L) >= 100 mg/L. Lowest value for guideline is 0.000005 mg/L. | Working guideline status. Guideline variance with hardness. |
| Silicon (SiO ₂)-Total | mg/L | - | - | - | - | 4.00 | 4.0 | | | Working guideline status. Guideline variance with hardness. |
| Silver (Ag)-Total | mg/L | Values with hardness, see note | Values with hardness, see note | 0.003 | 0.0015 | < 0.00010 | < 0.00010 | Values with hardness. Guideline range: 0.0001 to 0.001 mg/L. Hardness < 100 mg/L. Values with hardness. Guideline range: 0.0001 to 0.001 mg/L. Hardness >= 100 mg/L. | Values with hardness. Guideline range: 0.0001 to 0.001 mg/L. Hardness < 100 mg/L. Values with hardness. Guideline range: 0.0001 to 0.001 mg/L. Hardness >= 100 mg/L. | Guideline applies to open coast and estuaries. Guideline is applicable to the EGZ site. |
| Sodium (Na)-Total | mg/L | - | - | - | - | 0.0003 | 0.0003 | | | Guideline applies to marine, estuarine, riverine and lake waters. Guideline is applicable to the EGZ site. |
| Sulfur (S)-Total | mg/L | - | - | - | - | 0.0001 | 0.0001 | | | Guideline applies to marine, estuarine, riverine and lake waters. Guideline is applicable to the EGZ site. |
| Thallium (Tl)-Total | mg/L | 0.00008 | - | - | - | 0.000010 | 0.000010 | | | Guideline variance with hardness. Guideline is applicable to freshwater aquatic life (water column). Alert concentration is 0.001 mg/L, with separate guidelines for sediment, overlying water and groundwater. Alert concentration is 0.0001 mg/L, with separate guidelines for sediment, overlying water and groundwater. More information on guidelines and sampling guidance. |
| Thiobismethane (Tm)-Total | mg/L | - | - | - | - | 0.0000005 | 0.0000005 | | | Guideline variance with hardness. Guideline is applicable to freshwater aquatic life (water column). Alert concentration is 0.001 mg/L, with separate guidelines for sediment, overlying water and groundwater. Alert concentration is 0.0001 mg/L, with separate guidelines for sediment, overlying water and groundwater. More information on guidelines and sampling guidance. |
| Tin (Sn)-Total | mg/L | - | - | - | - | 0.000010 | 0.000010 | | | Guideline variance with hardness. Guideline is applicable to freshwater aquatic life (water column). Alert concentration is 0.001 mg/L, with separate guidelines for sediment, overlying water and groundwater. Alert concentration is 0.0001 mg/L, with separate guidelines for sediment, overlying water and groundwater. More information on guidelines and sampling guidance. |
| Uranium (U)-Total | mg/L | - | - | - | - | 0.0000005 | 0.0000005 | | | Guideline variance with hardness. Guideline is applicable to freshwater aquatic life (water column). Alert concentration is 0.001 mg/L, with separate guidelines for sediment, overlying water and groundwater. Alert concentration is 0.0001 mg/L, with separate guidelines for sediment, overlying water and groundwater. More information on guidelines and sampling guidance. |
| Vanadium (V)-Total | mg/L | - | - | - | - | 0.0000005 | 0.0000005 | | | Guideline variance with hardness. Guideline is applicable to freshwater aquatic life (water column). Alert concentration is 0.001 mg/L, with separate guidelines for sediment, overlying water and groundwater. Alert concentration is 0.0001 mg/L, with separate guidelines for sediment, overlying water and groundwater. More information on guidelines and sampling guidance. |
| Barium (Ba)-Dissolved | mg/L | Values with hardness, see note | Values with hardness, see note | - | - | + 0.000000 | 0.000000 | | | Guideline variance with other parameters and is calculated using BC SLIM software. |
| Calcium (Ca)-Dissolved | mg/L | Categorical, see note | - | - | - | 2.35 | 2.36 | The upstream and downstream locations exceed the 5-week rolling average long-term BCWQ for MAL. These impacts are not attributable to WILNG discharge activities and may be groundwater impacts of East Creek and the local geology. | Guideline variance with other parameters and is calculated using BC SLIM software. | Guideline variance with other parameters and is calculated using BC SLIM software. |
| Calcium (Ca)-Dissolved | mg/L | - | - | - | - | < 0.000000 | < 0.000000 | | | Guideline variance with other parameters and is calculated using BC SLIM software. |
| Copper (Cu)-Dissolved | mg/L | Guideline varies with other parameters, see note | Guideline varies with other parameters, see note | - | - | 0.00005 | 0.000042 | Guideline variance with other parameters and is calculated using BC SLIM software. | Guideline variance with other parameters and is calculated using BC SLIM software. | Guideline variance with other parameters and is calculated using BC SLIM software. |
| Lead (Pb)-Dissolved | mg/L | - | - | - | - | 0.000000 | 0.000000 | | | Guideline variance with other parameters and is calculated using BC SLIM software. |
| Uranium (U)-Dissolved | mg/L | - | - | - | - | 0.000000 | 0.000000 | | | Guideline variance with other parameters and is calculated using BC SLIM software. |
| Manganese (Mn)-Dissolved | mg/L | - | - | - | - | 0.000000 | 0.000000 | | | Guideline variance with other parameters and is calculated using BC SLIM software. |
| Strontium (Sr)-Dissolved | mg/L | - | - | - | - | 0.000000 | 0.000000 | | | Guideline variance with other parameters and is calculated using BC SLIM software. |
| Thallium (Tl)-Dissolved | mg/L | - | - | - | - | 0.000000 | 0.000000 | | | Guideline variance with other parameters and is calculated using BC SLIM software. |
| Thiobismethane (Tm)-Dissolved | mg/L | - | - | - | - | 0.000000 | 0.000000 | | | Guideline variance with other parameters and is calculated using BC SLIM software. |
| Vanadium (V)-Dissolved | mg/L | - | - | - | - | 0.000000 | 0.000000 | | | Guideline variance with other parameters and is calculated using BC SLIM software. |
| Zinc (Zn)-Dissolved | mg/L | Values with pH, DOC, hardness | Values with DOC and hardness | - | - | 0.00015 | 0.00011 | Guideline variance with pH, hardness. Guideline is calculated using the following formula: Guideline = (EXP((0.833 * (ZNHARDNESS)) + (0.24 * (LNDOC))) * (0.001 * (ZNPH))) | Guideline variance with pH, hardness. Guideline is calculated using the following formula: Guideline = (EXP((0.833 * (ZNHARDNESS)) + (0.24 * (LNDOC))) * (0.001 * (ZNPH))) | Guideline variance with pH, hardness. Guideline is calculated using the following formula: Guideline = (EXP((0.833 * (ZNHARDNESS)) + (0.24 * (LNDOC))) * (0.001 * (ZNPH))) |
| Dissolved Oxygen (DO) | mg/L | - | - | - | - | < 0.000000 | < 0.000000 | If hardness or DOC is below the hardness or DO range, the minimum hardness or DO will be applied in the calculation. | If hardness or DOC is below the hardness or DO range, the minimum hardness or DO will be applied in the calculation. | If hardness or DOC is below the hardness or DO range, the minimum hardness or DO will be applied in the calculation. |
| Chloride (Cl ⁻) | mg/L | - | - | - | - | 0.000000 | 0.000000 | | | |
| Color Key: | Federal Exceeds BCWWQ Long-term Guidelines Exceeds BCWWQ Short-term Guidelines | Exceeds BCWWQ Long-term Guidelines Exceeds BCWWQ Short-term Guidelines | Exceeds BCWWQ MAL Long-term Guidelines Exceeds BCWWQ MAL Short-term Guidelines | | | | | | | |
| Color Key: | Color Key British Columbia Approved and Working Water-Quality Guidelines (INOV 2022) - BCWWQ - Freshwater Aquatic Life British Columbia Approved and Working Water-Quality Guidelines (INOV 2022) - BCWWQ - Marine Aquatic Life | | | | | | | | | |

BC INOV 2022 BC Water Quality Guidelines for the Protection of Aquatic Life, Wildlife & Agriculture. Accessed from: www2.gov.bc.ca/gov/content/energy-environment/water-quality-management/water-quality-guidelines

BC MECOLCS 2021 BC Working Water-Quality Guidelines for the Protection of Aquatic Life, Wildlife & Agriculture. Accessed from: www2.gov.bc.ca/gov/content/energy-environment/water-quality-management/water-quality-guidelines

Note that long-term guidelines apply to averaged data to account for chronic impacts to life. Ideally, five samples collected at every spaced intervals over 30 days is considered to be representative of the long-term average. Long-term guidelines are based on the assumption that there is no significant seasonal variation through the year. Long-term guidelines apply here for reference only and may not indicate chronic impacts to aquatic life if it occurs over the short term.

Guidelines are dependent on parameters, when hardness, pH or DOC are below the range stated in the guideline, the lowest value in the range is used to calculate the guideline.

Reference: Tetra Environmental Consultants Ltd. 2023. Memo - Background water quality values for the BC Rail Discharge to Squamish River.

Guidelines dependent on parameters, when hardness, pH or DOC are below the range stated in the guideline, the lowest value in the range is used to calculate the guideline.

BC INOV 2022 BC Working Water-Quality Guidelines for the Protection of Aquatic Life, Wildlife & Agriculture. Accessed from: [www2.gov.bc.ca/gov/content/energy-environment/water](http://www2.gov.bc.ca/gov/content/energy-environment/water-quality-management/water-quality-guidelines)

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|---|--|---|
|  FORTIS BC™ | Eagle Mountain - Woodfibre Gas Pipeline Project | May 13th to May 19th, 2024 |
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| | Appendix D | D-3 |

Woodfibre Site Receiving Environment Lab Documentation

CERTIFICATE OF ANALYSIS

| | | | |
|-------------------------|---|-------------------------|---------------------------------|
| Work Order | : VA24B0899 | Page | : 1 of 7 |
| Client | : Triton Environmental Consultants Ltd. | Laboratory | : ALS Environmental - Vancouver |
| Contact | | Account Manager | |
| Address | | Address | |
| Telephone | | Telephone | |
| Project | : 11964 | Date Samples Received | : 15-May-2024 17:45 |
| PO | : 11964 - Task 20 - Phase 3C -4C | Date Analysis Commenced | : 16-May-2024 |
| C-O-C number | : ---- | Issue Date | : 28-May-2024 16:18 |
| Sampler | : ---- | | |
| Site | : Water Analysis | | |
| Quote number | : VA23-TRIT100-012 _V2 | | |
| No. of samples received | : 4 | | |
| No. of samples analysed | : 4 | | |

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

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

Signatories

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

| Signatories | Position | Laboratory Department |
|-------------|--|---|
| | Analyst | Metals, Burnaby, British Columbia |
| | Lab Assistant | Metals, Burnaby, British Columbia |
| | Laboratory Analyst | Metals, Burnaby, British Columbia |
| | Supervisor - Inorganic | Inorganics, Burnaby, British Columbia |
| | Department Manager - Metals | Inorganics, Burnaby, British Columbia |
| | Department Manager - Inorganics | Inorganics, Burnaby, British Columbia |
| | | Metals, Burnaby, British Columbia |
| | Account Manager Assistant | Administration, Burnaby, British Columbia |
| | Supervisor - Water Quality Instrumentation | Inorganics, Burnaby, British Columbia |



General Comments

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

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

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

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

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances

LOR: Limit of Reporting (detection limit).

| <i>Unit</i> | <i>Description</i> |
|-------------|-----------------------------|
| - | no units |
| °C | degrees celsius |
| µS/cm | microsiemens per centimetre |
| mg/L | milligrams per litre |
| pH units | pH units |

<: less than.

>: greater than.

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

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

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



Analytical Results

| Client sample ID | | | | | WLNJG DS1 | WLNG US1 | Quarry us WC 318-R2 | Quarry DS Sump | --- |
|---|------------|--------------|--------|----------|----------------------|----------------------|----------------------|----------------------|-------|
| Client sampling date / time | | | | | 15-May-2024 08:45 | 15-May-2024 08:12 | 15-May-2024 09:50 | 15-May-2024 10:04 | ---- |
| Analyst | CAS Number | Method/Lab | LOR | Unit | VA24B0899-001 | VA24B0899-002 | VA24B0899-003 | VA24B0899-004 | ----- |
| Field Tests | | | | | | | | | |
| Conductivity, field | ---- | EF001/VA | 0.01 | µS/cm | 27.000 | 23.000 | ---- | ---- | ---- |
| pH, field | ---- | EF001/VA | 0.01 | pH units | 7.04 | 6.96 | ---- | ---- | ---- |
| Temperature, field | ---- | EF001/VA | 0.01 | °C | 11.0 | 10.5 | ---- | ---- | ---- |
| Conductivity, field | ---- | EF001/VA | 0.10 | µS/cm | ---- | ---- | 15.000 | 124.00 | ---- |
| pH, field | ---- | EF001/VA | 0.10 | pH units | ---- | ---- | 6.63 | 7.13 | ---- |
| Temperature, field | ---- | EF001/VA | 0.10 | °C | ---- | ---- | 9.70 | 12.1 | ---- |
| Physical Tests | | | | | | | | | |
| Hardness (as CaCO ₃), dissolved | ---- | EC100/VA | 0.60 | mg/L | 6.84 | 6.88 | ---- | ---- | ---- |
| Hardness (as CaCO ₃), from total Ca/Mg | ---- | EC100A/VA | 0.60 | mg/L | 7.00 | 6.88 | ---- | ---- | ---- |
| Solids, total dissolved [TDS] | ---- | E162/VA | 10 | mg/L | 24 | 22 | ---- | ---- | ---- |
| Solids, total suspended [TSS] | ---- | E160/VA | 3.0 | mg/L | 4.2 | <3.0 | ---- | ---- | ---- |
| Alkalinity, total (as CaCO ₃) | ---- | E290/VA | 2.0 | mg/L | 7.4 | 7.3 | ---- | ---- | ---- |
| Anions and Nutrients | | | | | | | | | |
| Ammonia, total (as N) | 7664-41-7 | E298/VA | 0.0050 | mg/L | <0.0050 | <0.0050 | ---- | ---- | ---- |
| Bromide | 24959-67-9 | E235.Br-L/VA | 0.050 | mg/L | <0.050 | <0.050 | ---- | ---- | ---- |
| Chloride | 16887-00-6 | E235.Cl/VA | 0.50 | mg/L | 0.53 | 0.55 | ---- | ---- | ---- |
| Fluoride | 16984-48-8 | E235.F/VA | 0.020 | mg/L | 0.021 | 0.020 | ---- | ---- | ---- |
| Nitrate (as N) | 14797-55-8 | E235.NO3-L/V | 0.0050 | mg/L | <0.0050 | <0.0050 | ---- | ---- | ---- |
| Nitrite (as N) | 14797-65-0 | E235.NO2-L/V | 0.0010 | mg/L | <0.0010 | <0.0010 | ---- | ---- | ---- |
| Nitrogen, total | 7727-37-9 | E366/VA | 0.030 | mg/L | 0.051 | 0.062 | ---- | ---- | ---- |
| Phosphorus, total | 7723-14-0 | E372-U/VA | 0.0020 | mg/L | 0.0064 | 0.0116 | ---- | ---- | ---- |
| Sulfate (as SO ₄) | 14808-79-8 | E235.SO4/VA | 0.30 | mg/L | 2.01 | 1.90 | ---- | ---- | ---- |
| Organic / Inorganic Carbon | | | | | | | | | |
| Carbon, dissolved organic [DOC] | ---- | E358-L/VA | 0.50 | mg/L | 2.84 | 2.65 | ---- | ---- | ---- |
| Total Sulfides | | | | | | | | | |
| Sulfide, total (as S) | 18496-25-8 | E395/VA | 0.0015 | mg/L | <0.0015 | <0.0015 | ---- | ---- | ---- |
| Sulfide, un-ionized (as H ₂ S), from total | 7783-06-4 | EC395/VA | 0.0015 | mg/L | <0.0015 | <0.0015 | ---- | ---- | ---- |
| Sulfide, total (as H ₂ S) | 7783-06-4 | E395/VA | 0.0016 | mg/L | <0.0016 | <0.0016 | ---- | ---- | ---- |



Analytical Results

| | | | | | Client sample ID | WLNG DS1 | WLNG US1 | Quarry us WC 318-R2 | Quarry DS Sump | --- |
|---------------------|------------|------------|-----------|------|-----------------------------|----------------------|----------------------|----------------------|----------------------|-----|
| | | | | | Client sampling date / time | 15-May-2024 08:45 | 15-May-2024 08:12 | 15-May-2024 09:50 | 15-May-2024 10:04 | --- |
| Analyte | CAS Number | Method/Lab | LOR | Unit | VA24B0899-001 | VA24B0899-002 | VA24B0899-003 | VA24B0899-004 | ----- | |
| Total Metals | | | | | | | | | | |
| Aluminum, total | 7429-90-5 | E420/VA | 0.0030 | mg/L | 0.0584 | 0.0667 | 0.0616 | 0.0452 | --- | --- |
| Antimony, total | 7440-36-0 | E420/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | --- | --- |
| Arsenic, total | 7440-38-2 | E420/VA | 0.00010 | mg/L | 0.00011 | 0.00013 | <0.00010 | 0.00012 | --- | --- |
| Barium, total | 7440-39-3 | E420/VA | 0.00010 | mg/L | 0.00368 | 0.00288 | 0.00475 | 0.0156 | --- | --- |
| Beryllium, total | 7440-41-7 | E420/VA | 0.000020 | mg/L | ---- | ---- | <0.000020 | <0.000020 | --- | --- |
| Beryllium, total | 7440-41-7 | E420/VA | 0.000100 | mg/L | <0.000100 | <0.000100 | ---- | ---- | --- | --- |
| Bismuth, total | 7440-69-9 | E420/VA | 0.000050 | mg/L | <0.000050 | <0.000050 | <0.000050 | <0.000050 | --- | --- |
| Boron, total | 7440-42-8 | E420/VA | 0.010 | mg/L | <0.010 | <0.010 | <0.010 | <0.010 | 0.010 | --- |
| Cadmium, total | 7440-43-9 | E420/VA | 0.0000050 | mg/L | 0.0000060 | 0.0000056 | 0.0000052 | 0.0000053 | --- | --- |
| Calcium, total | 7440-70-2 | E420/VA | 0.050 | mg/L | 2.39 | 2.32 | 1.87 | 17.2 | --- | --- |
| Cesium, total | 7440-46-2 | E420/VA | 0.000010 | mg/L | <0.000010 | <0.000010 | <0.000010 | 0.000022 | --- | --- |
| Chromium, total | 7440-47-3 | E420/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | <0.00050 | <0.00050 | --- | --- |
| Cobalt, total | 7440-48-4 | E420/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | <0.00010 | 0.00028 | --- | --- |
| Copper, total | 7440-50-8 | E420/VA | 0.00050 | mg/L | 0.00050 | 0.00055 | 0.00054 | <0.00050 | --- | --- |
| Iron, total | 7439-89-6 | E420/VA | 0.010 | mg/L | 0.037 | 0.035 | 0.014 | 0.470 | --- | --- |
| Lead, total | 7439-92-1 | E420/VA | 0.000050 | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.000053 | --- | --- |
| Lithium, total | 7439-93-2 | E420/VA | 0.0010 | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | --- | --- |
| Magnesium, total | 7439-95-4 | E420/VA | 0.0050 | mg/L | 0.250 | 0.263 | 0.192 | 1.03 | --- | --- |
| Manganese, total | 7439-96-5 | E420/VA | 0.00010 | mg/L | 0.00227 | 0.00226 | 0.00069 | 0.161 | --- | --- |
| Mercury, total | 7439-97-6 | E508/VA | 0.0000050 | mg/L | <0.0000050 | <0.0000050 | ---- | ---- | --- | --- |
| Molybdenum, total | 7439-98-7 | E420/VA | 0.000050 | mg/L | 0.000709 | 0.000521 | 0.000256 | 0.000556 | --- | --- |
| Nickel, total | 7440-02-0 | E420/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | <0.00050 | <0.00050 | --- | --- |
| Phosphorus, total | 7723-14-0 | E420/VA | 0.050 | mg/L | <0.050 | <0.050 | <0.050 | <0.050 | --- | --- |
| Potassium, total | 7440-09-7 | E420/VA | 0.050 | mg/L | 0.169 | 0.163 | 0.097 | 1.07 | --- | --- |
| Rubidium, total | 7440-17-7 | E420/VA | 0.00020 | mg/L | 0.00030 | 0.00024 | 0.00027 | 0.00218 | --- | --- |
| Selenium, total | 7782-49-2 | E420/VA | 0.000050 | mg/L | <0.000050 | <0.000050 | <0.000050 | <0.000050 | --- | --- |
| Silicon, total | 7440-21-3 | E420/VA | 0.10 | mg/L | 4.16 | 4.06 | 2.76 | 4.17 | --- | --- |
| Silver, total | 7440-22-4 | E420/VA | 0.000010 | mg/L | <0.000010 | <0.000010 | <0.000010 | <0.000010 | --- | --- |
| Sodium, total | 7440-23-5 | E420/VA | 0.050 | mg/L | 1.40 | 1.39 | 1.06 | 1.92 | --- | --- |
| Strontium, total | 7440-24-6 | E420/VA | 0.00020 | mg/L | 0.0112 | 0.0115 | 0.00792 | 0.0707 | --- | --- |



Analytical Results

| Sub-Matrix: Water (Matrix: Water) | | | | | Client sample ID | WLNG DS1 | WLNG US1 | Quarry us WC 318-R2 | Quarry DS Sump | --- |
|--------------------------------------|------------|------------|-----------|------|-----------------------------|----------------------|----------------------|------------------------|----------------------|-----|
| | | | | | Client sampling date / time | 15-May-2024 08:45 | 15-May-2024 08:12 | 15-May-2024 09:50 | 15-May-2024 10:04 | --- |
| Analyte | CAS Number | Method/Lab | LOR | Unit | VA24B0899-001 | VA24B0899-002 | VA24B0899-003 | VA24B0899-004 | ----- | |
| Total Metals | | | | | | | | | | |
| Sulfur, total | 7704-34-9 | E420/VA | 0.50 | mg/L | <0.50 | <0.50 | <0.50 | 0.87 | --- | |
| Tellurium, total | 13494-80-9 | E420/VA | 0.00020 | mg/L | <0.00020 | <0.00020 | <0.00020 | <0.00020 | --- | |
| Thallium, total | 7440-28-0 | E420/VA | 0.000010 | mg/L | <0.000010 | <0.000010 | <0.000010 | <0.000010 | --- | |
| Thorium, total | 7440-29-1 | E420/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | --- | |
| Tin, total | 7440-31-5 | E420/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | --- | |
| Titanium, total | 7440-32-6 | E420/VA | 0.00030 | mg/L | 0.00044 | 0.00070 | <0.00030 | 0.00112 | --- | |
| Tungsten, total | 7440-33-7 | E420/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | --- | |
| Uranium, total | 7440-61-1 | E420/VA | 0.000010 | mg/L | 0.000090 | 0.000078 | 0.000117 | 0.000182 | --- | |
| Vanadium, total | 7440-62-2 | E420/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | <0.00050 | <0.00050 | --- | |
| Zinc, total | 7440-66-6 | E420/VA | 0.0030 | mg/L | <0.0030 | <0.0030 | <0.0030 | <0.0030 | --- | |
| Zirconium, total | 7440-67-7 | E420/VA | 0.00020 | mg/L | <0.00020 | <0.00020 | <0.00020 | <0.00020 | --- | |
| Dissolved Metals | | | | | | | | | | |
| Aluminum, dissolved | 7429-90-5 | E421/VA | 0.0010 | mg/L | 0.0440 | 0.0442 | 0.0520 | 0.0148 | --- | |
| Antimony, dissolved | 7440-36-0 | E421/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | --- | |
| Arsenic, dissolved | 7440-38-2 | E421/VA | 0.00010 | mg/L | 0.00012 | 0.00012 | <0.00010 | 0.00011 | --- | |
| Barium, dissolved | 7440-39-3 | E421/VA | 0.00010 | mg/L | 0.00323 | 0.00279 | 0.00507 | 0.0151 | --- | |
| Beryllium, dissolved | 7440-41-7 | E421/VA | 0.000020 | mg/L | ---- | ---- | <0.000020 | <0.000020 | --- | |
| Beryllium, dissolved | 7440-41-7 | E421/VA | 0.000100 | mg/L | <0.000100 | <0.000100 | ---- | ---- | --- | |
| Bismuth, dissolved | 7440-69-9 | E421/VA | 0.000050 | mg/L | <0.000050 | <0.000050 | <0.000050 | <0.000050 | --- | |
| Boron, dissolved | 7440-42-8 | E421/VA | 0.010 | mg/L | <0.010 | <0.010 | <0.010 | <0.010 | --- | |
| Cadmium, dissolved | 7440-43-9 | E421/VA | 0.0000050 | mg/L | 0.0000057 | <0.0000050 | <0.0000050 | <0.0000050 | --- | |
| Calcium, dissolved | 7440-70-2 | E421/VA | 0.050 | mg/L | 2.36 | 2.35 | 1.80 | 17.5 | --- | |
| Cesium, dissolved | 7440-46-2 | E421/VA | 0.000010 | mg/L | <0.000010 | <0.000010 | <0.000010 | 0.000022 | --- | |
| Chromium, dissolved | 7440-47-3 | E421/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | <0.00050 | <0.00050 | --- | |
| Cobalt, dissolved | 7440-48-4 | E421/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | <0.00010 | 0.00026 | --- | |
| Copper, dissolved | 7440-50-8 | E421/VA | 0.00020 | mg/L | 0.00043 | 0.00050 | 0.00063 | 0.00034 | --- | |
| Iron, dissolved | 7439-89-6 | E421/VA | 0.010 | mg/L | 0.024 | 0.018 | <0.010 | 0.318 | --- | |
| Lead, dissolved | 7439-92-1 | E421/VA | 0.000050 | mg/L | <0.000050 | <0.000050 | <0.000050 | <0.000050 | --- | |
| Lithium, dissolved | 7439-93-2 | E421/VA | 0.0010 | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | --- | |
| Magnesium, dissolved | 7439-95-4 | E421/VA | 0.0050 | mg/L | 0.230 | 0.246 | 0.182 | 0.965 | --- | |



Analytical Results

| Sub-Matrix: Water (Matrix: Water) | | | | | Client sample ID | WLNG DS1 | WLNG US1 | Quarry us WC 318-R2 | Quarry DS Sump | --- |
|---------------------------------------|------------|------------|-----------|------|-----------------------------|----------------------|----------------------|----------------------|----------------------|-----|
| | | | | | Client sampling date / time | 15-May-2024 08:45 | 15-May-2024 08:12 | 15-May-2024 09:50 | 15-May-2024 10:04 | --- |
| Analyte | CAS Number | Method/Lab | LOR | Unit | VA24B0899-001 | VA24B0899-002 | VA24B0899-003 | VA24B0899-004 | ----- | |
| | | | | | Result | Result | Result | Result | --- | |
| Dissolved Metals | | | | | | | | | | |
| Manganese, dissolved | 7439-96-5 | E421/VA | 0.00010 | mg/L | 0.00169 | 0.00140 | 0.00080 | 0.151 | --- | |
| Mercury, dissolved | 7439-97-6 | E509/VA | 0.0000050 | mg/L | <0.0000050 | <0.0000050 | --- | --- | --- | |
| Molybdenum, dissolved | 7439-98-7 | E421/VA | 0.000050 | mg/L | 0.000666 | 0.000526 | 0.000263 | 0.000568 | --- | |
| Nickel, dissolved | 7440-02-0 | E421/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | <0.00050 | <0.00050 | --- | |
| Phosphorus, dissolved | 7723-14-0 | E421/VA | 0.050 | mg/L | <0.050 | <0.050 | <0.050 | <0.050 | --- | |
| Potassium, dissolved | 7440-09-7 | E421/VA | 0.050 | mg/L | 0.166 | 0.172 | 0.095 | 1.12 | --- | |
| Rubidium, dissolved | 7440-17-7 | E421/VA | 0.00020 | mg/L | 0.00028 | 0.00025 | 0.00024 | 0.00224 | --- | |
| Selenium, dissolved | 7782-49-2 | E421/VA | 0.000050 | mg/L | <0.000050 | <0.000050 | <0.000050 | 0.000056 | --- | |
| Silicon, dissolved | 7440-21-3 | E421/VA | 0.050 | mg/L | 4.07 | 3.98 | 2.60 | 4.08 | --- | |
| Silver, dissolved | 7440-22-4 | E421/VA | 0.000010 | mg/L | <0.000010 | <0.000010 | <0.000010 | <0.000010 | --- | |
| Sodium, dissolved | 7440-23-5 | E421/VA | 0.050 | mg/L | 1.28 | 1.34 | 0.973 | 1.81 | --- | |
| Strontium, dissolved | 7440-24-6 | E421/VA | 0.00020 | mg/L | 0.0119 | 0.0123 | 0.00823 | 0.0730 | --- | |
| Sulfur, dissolved | 7704-34-9 | E421/VA | 0.50 | mg/L | <0.50 | 0.56 | <0.50 | 0.89 | --- | |
| Tellurium, dissolved | 13494-80-9 | E421/VA | 0.00020 | mg/L | <0.00020 | <0.00020 | <0.00020 | <0.00020 | --- | |
| Thallium, dissolved | 7440-28-0 | E421/VA | 0.000010 | mg/L | <0.000010 | <0.000010 | <0.000010 | <0.000010 | --- | |
| Thorium, dissolved | 7440-29-1 | E421/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | --- | |
| Tin, dissolved | 7440-31-5 | E421/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | --- | |
| Titanium, dissolved | 7440-32-6 | E421/VA | 0.00030 | mg/L | <0.00030 | <0.00030 | <0.00030 | <0.00030 | --- | |
| Tungsten, dissolved | 7440-33-7 | E421/VA | 0.00010 | mg/L | <0.00010 | <0.00010 | <0.00010 | <0.00010 | --- | |
| Uranium, dissolved | 7440-61-1 | E421/VA | 0.000010 | mg/L | 0.000073 | 0.000072 | 0.000105 | 0.000161 | --- | |
| Vanadium, dissolved | 7440-62-2 | E421/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | <0.00050 | <0.00050 | --- | |
| Zinc, dissolved | 7440-66-6 | E421/VA | 0.0010 | mg/L | 0.0011 | 0.0015 | 0.0011 | 0.0016 | --- | |
| Zirconium, dissolved | 7440-67-7 | E421/VA | 0.00020 | mg/L | <0.00020 | <0.00020 | --- | --- | --- | |
| Zirconium, dissolved | 7440-67-7 | E421/VA | 0.00030 | mg/L | --- | --- | <0.00030 | <0.00030 | --- | |
| Dissolved mercury filtration location | ---- | EP509/VA | - | - | Field | Field | --- | --- | --- | |
| Dissolved metals filtration location | ---- | EP421/VA | - | - | Field | Field | Field | Field | --- | |
| Speciated Metals | | | | | | | | | | |
| Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | --- | --- | --- | |
| Chromium, trivalent [Cr III], total | 16065-83-1 | EC535/VA | 0.00050 | mg/L | <0.00050 | <0.00050 | --- | --- | --- | |

Page : 7 of 7
Work Order : VA24B0899
Client : Triton Environmental Consultants Ltd.
Project : 11964



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

Please refer to the Accreditation section for an explanation of analyte accreditations.

QUALITY CONTROL INTERPRETIVE REPORT

| | | | |
|-------------------------|---|-----------------------|---------------------------------|
| Work Order | : VA24B0899 | Page | : 1 of 15 |
| Client | : Triton Environmental Consultants Ltd. | Laboratory | : ALS Environmental - Vancouver |
| Contact | | Account Manager | : |
| Address | | Address | : |
| Telephone | | Telephone | : |
| Project | : 11964 | Date Samples Received | : 15-May-2024 17:45 |
| PO | : 11964 - Task 20 - Phase 3C -4C | Issue Date | : 28-May-2024 16:19 |
| C-O-C number | : ---- | | |
| Sampler | : ---- | | |
| Site | : Water Analysis | | |
| Quote number | : VA23-TRIT100-012_V2 | | |
| No. of samples received | : 4 | | |
| No. of samples analysed | : 4 | | |

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO: Data Quality Objective.

LOR: Limit of Reporting (detection limit).

RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "----" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Matrix Spike outliers occur.
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- No Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and/or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

| Matrix: Water | | | | | | | | | | | Evaluation: ✗ = Holding time exceedance ; ✓ = Within Holding Time | | | |
|---|---------------------------------|-----------|---------------|--------------------------|---------------|--------|------|---------------|---------------|--------|---|---------------|--------|------|
| Analyte Group : Analytical Method | Container / Client Sample ID(s) | Method | Sampling Date | Extraction / Preparation | | | | Analysis | | | Analysis Date | Holding Times | | |
| | | | | Preparation Date | Holding Times | | Eval | Analysis Date | Holding Times | | | Rec | Actual | Eval |
| Anions and Nutrients : Ammonia by Fluorescence | | | | | | | | | | | | | | |
| Amber glass total (sulfuric acid) WLNG US1 | | E298 | 15-May-2024 | 23-May-2024 | 28 days | 9 days | ✓ | 24-May-2024 | 28 days | 9 days | | | ✓ | |
| Anions and Nutrients : Ammonia by Fluorescence | | | | | | | | | | | | | | |
| Amber glass total (sulfuric acid) WLNJG DS1 | | E298 | 15-May-2024 | 23-May-2024 | 28 days | 9 days | ✓ | 24-May-2024 | 28 days | 9 days | | | ✓ | |
| Anions and Nutrients : Bromide in Water by IC (Low Level) | | | | | | | | | | | | | | |
| HDPE WLNG US1 | | E235.Br-L | 15-May-2024 | 17-May-2024 | 28 days | 2 days | ✓ | 17-May-2024 | 28 days | 2 days | | | ✓ | |
| Anions and Nutrients : Bromide in Water by IC (Low Level) | | | | | | | | | | | | | | |
| HDPE WLNJG DS1 | | E235.Br-L | 15-May-2024 | 17-May-2024 | 28 days | 2 days | ✓ | 17-May-2024 | 28 days | 2 days | | | ✓ | |
| Anions and Nutrients : Chloride in Water by IC | | | | | | | | | | | | | | |
| HDPE WLNG US1 | | E235.Cl | 15-May-2024 | 17-May-2024 | 28 days | 2 days | ✓ | 17-May-2024 | 28 days | 2 days | | | ✓ | |
| Anions and Nutrients : Chloride in Water by IC | | | | | | | | | | | | | | |
| HDPE WLNJG DS1 | | E235.Cl | 15-May-2024 | 17-May-2024 | 28 days | 2 days | ✓ | 17-May-2024 | 28 days | 2 days | | | ✓ | |
| Anions and Nutrients : Fluoride in Water by IC | | | | | | | | | | | | | | |
| HDPE WLNG US1 | | E235.F | 15-May-2024 | 17-May-2024 | 28 days | 2 days | ✓ | 17-May-2024 | 28 days | 2 days | | | ✓ | |



Matrix: Water Evaluation: ✘ = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method | Method | Sampling Date | Extraction / Preparation | | | | Analysis | | |
|--|------------|---------------|--------------------------|-------------------|----------------------|------|---------------|-------------------|----------------------|
| | | | Preparation Date | Holding Times Rec | Holding Times Actual | Eval | Analysis Date | Holding Times Rec | Holding Times Actual |
| Anions and Nutrients : Fluoride in Water by IC | | | | | | | | | |
| HDPE WLNG DS1 | E235.F | 15-May-2024 | 17-May-2024 | 28 days | 2 days | ✓ | 17-May-2024 | 28 days | 2 days |
| Anions and Nutrients : Nitrate in Water by IC (Low Level) | | | | | | | | | |
| HDPE WLNG US1 | E235.NO3-L | 15-May-2024 | 17-May-2024 | 3 days | 2 days | ✓ | 17-May-2024 | 3 days | 2 days |
| Anions and Nutrients : Nitrate in Water by IC (Low Level) | | | | | | | | | |
| HDPE WLNG DS1 | E235.NO3-L | 15-May-2024 | 17-May-2024 | 3 days | 2 days | ✓ | 17-May-2024 | 3 days | 2 days |
| Anions and Nutrients : Nitrite in Water by IC (Low Level) | | | | | | | | | |
| HDPE WLNG US1 | E235.NO2-L | 15-May-2024 | 17-May-2024 | 3 days | 2 days | ✓ | 17-May-2024 | 3 days | 2 days |
| Anions and Nutrients : Nitrite in Water by IC (Low Level) | | | | | | | | | |
| HDPE WLNG DS1 | E235.NO2-L | 15-May-2024 | 17-May-2024 | 3 days | 2 days | ✓ | 17-May-2024 | 3 days | 2 days |
| Anions and Nutrients : Sulfate in Water by IC | | | | | | | | | |
| HDPE WLNG US1 | E235.SO4 | 15-May-2024 | 17-May-2024 | 28 days | 2 days | ✓ | 17-May-2024 | 28 days | 2 days |
| Anions and Nutrients : Sulfate in Water by IC | | | | | | | | | |
| HDPE WLNG DS1 | E235.SO4 | 15-May-2024 | 17-May-2024 | 28 days | 2 days | ✓ | 17-May-2024 | 28 days | 2 days |
| Anions and Nutrients : Total Nitrogen by Colourimetry | | | | | | | | | |
| Amber glass total (sulfuric acid) WLNG US1 | E366 | 15-May-2024 | 23-May-2024 | 28 days | 9 days | ✓ | 27-May-2024 | 28 days | 12 days |
| Anions and Nutrients : Total Nitrogen by Colourimetry | | | | | | | | | |
| Amber glass total (sulfuric acid) WLNG DS1 | E366 | 15-May-2024 | 23-May-2024 | 28 days | 9 days | ✓ | 27-May-2024 | 28 days | 12 days |



Matrix: Water Evaluation: ✗ = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method | Method | Sampling Date | Extraction / Preparation | | | Eval | Analysis | | | |
|---|--------|---------------|--------------------------|-------------------|----------------------|------|---------------|-------------------|----------------------|---|
| | | | Preparation Date | Holding Times Rec | Holding Times Actual | | Analysis Date | Holding Times Rec | Holding Times Actual | |
| Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L) | | | | | | | | | | |
| Amber glass total (sulfuric acid) WLNG US1 | E372-U | 15-May-2024 | 23-May-2024 | 28 days | 9 days | ✓ | 28-May-2024 | 28 days | 13 days | ✓ |
| Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L) | | | | | | | | | | |
| Amber glass total (sulfuric acid) WLNJG DS1 | E372-U | 15-May-2024 | 23-May-2024 | 28 days | 9 days | ✓ | 28-May-2024 | 28 days | 13 days | ✓ |
| Dissolved Metals : Dissolved Mercury in Water by CVAAS | | | | | | | | | | |
| Glass vial - dissolved (lab preserved) WLNG US1 | E509 | 15-May-2024 | 18-May-2024 | 28 days | 3 days | ✓ | 18-May-2024 | 28 days | 3 days | ✓ |
| Dissolved Metals : Dissolved Mercury in Water by CVAAS | | | | | | | | | | |
| Glass vial - dissolved (lab preserved) WLNJG DS1 | E509 | 15-May-2024 | 18-May-2024 | 28 days | 3 days | ✓ | 18-May-2024 | 28 days | 3 days | ✓ |
| Dissolved Metals : Dissolved Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - dissolved (lab preserved) Quarry DS Sump | E421 | 15-May-2024 | 17-May-2024 | 180 days | 2 days | ✓ | 17-May-2024 | 180 days | 2 days | ✓ |
| Dissolved Metals : Dissolved Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - dissolved (lab preserved) Quarry us WC 318-R2 | E421 | 15-May-2024 | 17-May-2024 | 180 days | 2 days | ✓ | 17-May-2024 | 180 days | 2 days | ✓ |
| Dissolved Metals : Dissolved Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - dissolved (lab preserved) WLNG US1 | E421 | 15-May-2024 | 17-May-2024 | 180 days | 2 days | ✓ | 17-May-2024 | 180 days | 2 days | ✓ |
| Dissolved Metals : Dissolved Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - dissolved (lab preserved) WLNJG DS1 | E421 | 15-May-2024 | 17-May-2024 | 180 days | 2 days | ✓ | 17-May-2024 | 180 days | 2 days | ✓ |
| Field Tests : Field pH,EC,Salinity,Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine | | | | | | | | | | |
| HDPE - dissolved (lab preserved) Quarry DS Sump | EF001 | 15-May-2024 | ---- | ---- | ---- | | 16-May-2024 | ---- | 1 days | |



Matrix: Water Evaluation: ✗ = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method | Method | Sampling Date | Extraction / Preparation | | | | Analysis | | |
|---|--------|---------------|--------------------------|-------------------|----------------------|------|---------------|-------------------|----------------------|
| | | | Preparation Date | Holding Times Rec | Holding Times Actual | Eval | Analysis Date | Holding Times Rec | Holding Times Actual |
| Field Tests : Field pH,EC,Salinity,Cl₂,ClO₂,ORP,DO, Turbidity,T,T-P,o-PO₄,NH₃,Chloramine | | | | | | | | | |
| HDPE - dissolved (lab preserved) Quarry us WC 318-R2 | EF001 | 15-May-2024 | --- | --- | --- | | 16-May-2024 | --- | 1 days |
| Field Tests : Field pH,EC,Salinity,Cl₂,ClO₂,ORP,DO, Turbidity,T,T-P,o-PO₄,NH₃,Chloramine | | | | | | | | | |
| Glass vial - total (lab preserved) WLNJG DS1 | EF001 | 15-May-2024 | --- | --- | --- | | 16-May-2024 | --- | 1 days |
| Field Tests : Field pH,EC,Salinity,Cl₂,ClO₂,ORP,DO, Turbidity,T,T-P,o-PO₄,NH₃,Chloramine | | | | | | | | | |
| Glass vial - total (lab preserved) WLNG US1 | EF001 | 15-May-2024 | --- | --- | --- | | 16-May-2024 | --- | 2 days |
| Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level) | | | | | | | | | |
| Amber glass dissolved (sulfuric acid) WLNG US1 | E358-L | 15-May-2024 | 23-May-2024 | 28 days | 9 days | ✓ | 23-May-2024 | 28 days | 9 days |
| Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level) | | | | | | | | | |
| Amber glass dissolved (sulfuric acid) WLNJG DS1 | E358-L | 15-May-2024 | 23-May-2024 | 28 days | 9 days | ✓ | 23-May-2024 | 28 days | 9 days |
| Physical Tests : Alkalinity Species by Titration | | | | | | | | | |
| HDPE WLNG US1 | E290 | 15-May-2024 | 17-May-2024 | 14 days | 2 days | ✓ | 18-May-2024 | 14 days | 3 days |
| Physical Tests : Alkalinity Species by Titration | | | | | | | | | |
| HDPE WLNJG DS1 | E290 | 15-May-2024 | 17-May-2024 | 14 days | 2 days | ✓ | 18-May-2024 | 14 days | 3 days |
| Physical Tests : TDS by Gravimetry | | | | | | | | | |
| HDPE WLNG US1 | E162 | 15-May-2024 | --- | --- | --- | | 22-May-2024 | 7 days | 7 days |
| Physical Tests : TDS by Gravimetry | | | | | | | | | |
| HDPE WLNJG DS1 | E162 | 15-May-2024 | --- | --- | --- | | 22-May-2024 | 7 days | 7 days |



Matrix: Water Evaluation: ✗ = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method | Method | Sampling Date | Extraction / Preparation | | | | Analysis | | |
|---|--------|---------------|--------------------------|---------------|--------|---------------|---------------|----------|----------|
| | | | Preparation Date | Holding Times | Eval | Analysis Date | Holding Times | Eval | |
| Container / Client Sample ID(s) | | | | Rec | | Rec | Actual | | |
| Physical Tests : TSS by Gravimetry | | | | | | | | | |
| HDPE WLNG US1 | E160 | 15-May-2024 | --- | --- | --- | | 22-May-2024 | 7 days | 7 days ✓ |
| Physical Tests : TSS by Gravimetry | | | | | | | | | |
| HDPE WLNJG DS1 | E160 | 15-May-2024 | --- | --- | --- | | 22-May-2024 | 7 days | 7 days ✓ |
| Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC | | | | | | | | | |
| UV-inhibited HDPE - total (sodium hydroxide) WLNG US1 | E532 | 15-May-2024 | --- | --- | --- | | 18-May-2024 | 28 days | 3 days ✓ |
| Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC | | | | | | | | | |
| UV-inhibited HDPE - total (sodium hydroxide) WLNJG DS1 | E532 | 15-May-2024 | --- | --- | --- | | 18-May-2024 | 28 days | 3 days ✓ |
| Total Metals : Total Mercury in Water by CVAAS | | | | | | | | | |
| Glass vial - total (lab preserved) WLNG US1 | E508 | 15-May-2024 | 18-May-2024 | 28 days | 3 days | ✓ | 18-May-2024 | 28 days | 3 days ✓ |
| Total Metals : Total Mercury in Water by CVAAS | | | | | | | | | |
| Glass vial - total (lab preserved) WLNJG DS1 | E508 | 15-May-2024 | 18-May-2024 | 28 days | 3 days | ✓ | 18-May-2024 | 28 days | 3 days ✓ |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | |
| HDPE - total (lab preserved) Quarry DS Sump | E420 | 15-May-2024 | 17-May-2024 | 180 days | 2 days | ✓ | 18-May-2024 | 180 days | 3 days ✓ |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | |
| HDPE - total (lab preserved) Quarry us WC 318-R2 | E420 | 15-May-2024 | 17-May-2024 | 180 days | 2 days | ✓ | 18-May-2024 | 180 days | 3 days ✓ |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | |
| HDPE - total (lab preserved) WLNG US1 | E420 | 15-May-2024 | 17-May-2024 | 180 days | 2 days | ✓ | 18-May-2024 | 180 days | 3 days ✓ |



Matrix: Water Evaluation: ✗ = Holding time exceedance ; ✓ = Within Holding Time

| Analyte Group : Analytical Method | Method | Sampling Date | Extraction / Preparation | | | Eval | Analysis | | | |
|--|--------|---------------|--------------------------|-------------------|----------------------|------|---------------|-------------------|----------------------|---|
| | | | Preparation Date | Holding Times Rec | Holding Times Actual | | Analysis Date | Holding Times Rec | Holding Times Actual | |
| Total Metals : Total Metals in Water by CRC ICPMS | | | | | | | | | | |
| HDPE - total (lab preserved) WLNG DS1 | E420 | 15-May-2024 | 17-May-2024 | 180 days | 2 days | ✓ | 18-May-2024 | 180 days | 3 days | ✓ |
| Total Sulfides : Total Sulfide by Colourimetry (Automated Flow) | | | | | | | | | | |
| HDPE total (zinc acetate+sodium hydroxide) WLNG US1 | E395 | 15-May-2024 | --- | --- | --- | | 22-May-2024 | 7 days | 7 days | ✓ |
| Total Sulfides : Total Sulfide by Colourimetry (Automated Flow) | | | | | | | | | | |
| HDPE total (zinc acetate+sodium hydroxide) WLNG DS1 | E395 | 15-May-2024 | --- | --- | --- | | 22-May-2024 | 7 days | 7 days | ✓ |

Legend & Qualifier Definitions

Rec. HT: ALS recommended hold time (see units).



Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: Water

Evaluation: ✗ = QC frequency outside specification; ✓ = QC frequency within specification.

| Quality Control Sample Type | Analytical Methods | Method | QC Lot # | Count | | Frequency (%) | | |
|--|--------------------|------------|----------|-------|---------|---------------|----------|---|
| | | | | QC | Regular | Actual | Expected | |
| Laboratory Duplicates (DUP) | | | | | | | | |
| Alkalinity Species by Titration | | E290 | 1447228 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Ammonia by Fluorescence | | E298 | 1456650 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Bromide in Water by IC (Low Level) | | E235.Br-L | 1447233 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Chloride in Water by IC | | E235.Cl | 1447232 | 1 | 10 | 10.0 | 5.0 | ✓ |
| Dissolved Mercury in Water by CVAAS | | E509 | 1449433 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Dissolved Metals in Water by CRC ICPMS | | E421 | 1446224 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Dissolved Organic Carbon by Combustion (Low Level) | | E358-L | 1456646 | 1 | 9 | 11.1 | 5.0 | ✓ |
| Fluoride in Water by IC | | E235.F | 1447231 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Nitrate in Water by IC (Low Level) | | E235.NO3-L | 1447234 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Nitrite in Water by IC (Low Level) | | E235.NO2-L | 1447235 | 1 | 14 | 7.1 | 5.0 | ✓ |
| Sulfate in Water by IC | | E235.SO4 | 1447236 | 1 | 8 | 12.5 | 5.0 | ✓ |
| TDS by Gravimetry | | E162 | 1454424 | 1 | 13 | 7.6 | 5.0 | ✓ |
| Total Hexavalent Chromium (Cr VI) by IC | | E532 | 1449383 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Total Mercury in Water by CVAAS | | E508 | 1449472 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Total Metals in Water by CRC ICPMS | | E420 | 1446230 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Total Nitrogen by Colourimetry | | E366 | 1456649 | 1 | 5 | 20.0 | 5.0 | ✓ |
| Total Phosphorus by Colourimetry (0.002 mg/L) | | E372-U | 1456647 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Total Sulfide by Colourimetry (Automated Flow) | | E395 | 1452891 | 1 | 12 | 8.3 | 5.0 | ✓ |
| TSS by Gravimetry | | E160 | 1454487 | 1 | 13 | 7.6 | 5.0 | ✓ |
| Laboratory Control Samples (LCS) | | | | | | | | |
| Alkalinity Species by Titration | | E290 | 1447228 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Ammonia by Fluorescence | | E298 | 1456650 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Bromide in Water by IC (Low Level) | | E235.Br-L | 1447233 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Chloride in Water by IC | | E235.Cl | 1447232 | 1 | 10 | 10.0 | 5.0 | ✓ |
| Dissolved Mercury in Water by CVAAS | | E509 | 1449433 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Dissolved Metals in Water by CRC ICPMS | | E421 | 1446224 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Dissolved Organic Carbon by Combustion (Low Level) | | E358-L | 1456646 | 1 | 9 | 11.1 | 5.0 | ✓ |
| Fluoride in Water by IC | | E235.F | 1447231 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Nitrate in Water by IC (Low Level) | | E235.NO3-L | 1447234 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Nitrite in Water by IC (Low Level) | | E235.NO2-L | 1447235 | 1 | 14 | 7.1 | 5.0 | ✓ |
| Sulfate in Water by IC | | E235.SO4 | 1447236 | 1 | 8 | 12.5 | 5.0 | ✓ |
| TDS by Gravimetry | | E162 | 1454424 | 1 | 13 | 7.6 | 5.0 | ✓ |
| Total Hexavalent Chromium (Cr VI) by IC | | E532 | 1449383 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Total Mercury in Water by CVAAS | | E508 | 1449472 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Total Metals in Water by CRC ICPMS | | E420 | 1446230 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Total Nitrogen by Colourimetry | | E366 | 1456649 | 1 | 5 | 20.0 | 5.0 | ✓ |



| Evaluation: ✗ = QC frequency outside specification; ✓ = QC frequency within specification. | | | | | | | |
|--|------------|----------|-------|---------|---------------|----------|------------|
| Quality Control Sample Type | | | Count | | Frequency (%) | | |
| Analytical Methods | Method | QC Lot # | QC | Regular | Actual | Expected | Evaluation |
| Laboratory Control Samples (LCS) - Continued | | | | | | | |
| Total Phosphorus by Colourimetry (0.002 mg/L) | E372-U | 1456647 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Total Sulfide by Colourimetry (Automated Flow) | E395 | 1452891 | 1 | 12 | 8.3 | 5.0 | ✓ |
| TSS by Gravimetry | E160 | 1454487 | 1 | 13 | 7.6 | 5.0 | ✓ |
| Method Blanks (MB) | | | | | | | |
| Alkalinity Species by Titration | E290 | 1447228 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Ammonia by Fluorescence | E298 | 1456650 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Bromide in Water by IC (Low Level) | E235.Br-L | 1447233 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Chloride in Water by IC | E235.Cl | 1447232 | 1 | 10 | 10.0 | 5.0 | ✓ |
| Dissolved Mercury in Water by CVAAS | E509 | 1449433 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Dissolved Metals in Water by CRC ICPMS | E421 | 1446224 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Dissolved Organic Carbon by Combustion (Low Level) | E358-L | 1456646 | 1 | 9 | 11.1 | 5.0 | ✓ |
| Fluoride in Water by IC | E235.F | 1447231 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Nitrate in Water by IC (Low Level) | E235.NO3-L | 1447234 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Nitrite in Water by IC (Low Level) | E235.NO2-L | 1447235 | 1 | 14 | 7.1 | 5.0 | ✓ |
| Sulfate in Water by IC | E235.SO4 | 1447236 | 1 | 8 | 12.5 | 5.0 | ✓ |
| TDS by Gravimetry | E162 | 1454424 | 1 | 13 | 7.6 | 5.0 | ✓ |
| Total Hexavalent Chromium (Cr VI) by IC | E532 | 1449383 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Total Mercury in Water by CVAAS | E508 | 1449472 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Total Metals in Water by CRC ICPMS | E420 | 1446230 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Total Nitrogen by Colourimetry | E366 | 1456649 | 1 | 5 | 20.0 | 5.0 | ✓ |
| Total Phosphorus by Colourimetry (0.002 mg/L) | E372-U | 1456647 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Total Sulfide by Colourimetry (Automated Flow) | E395 | 1452891 | 1 | 12 | 8.3 | 5.0 | ✓ |
| TSS by Gravimetry | E160 | 1454487 | 1 | 13 | 7.6 | 5.0 | ✓ |
| Matrix Spikes (MS) | | | | | | | |
| Ammonia by Fluorescence | E298 | 1456650 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Bromide in Water by IC (Low Level) | E235.Br-L | 1447233 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Chloride in Water by IC | E235.Cl | 1447232 | 1 | 10 | 10.0 | 5.0 | ✓ |
| Dissolved Mercury in Water by CVAAS | E509 | 1449433 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Dissolved Metals in Water by CRC ICPMS | E421 | 1446224 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Dissolved Organic Carbon by Combustion (Low Level) | E358-L | 1456646 | 1 | 9 | 11.1 | 5.0 | ✓ |
| Fluoride in Water by IC | E235.F | 1447231 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Nitrate in Water by IC (Low Level) | E235.NO3-L | 1447234 | 1 | 15 | 6.6 | 5.0 | ✓ |
| Nitrite in Water by IC (Low Level) | E235.NO2-L | 1447235 | 1 | 14 | 7.1 | 5.0 | ✓ |
| Sulfate in Water by IC | E235.SO4 | 1447236 | 1 | 8 | 12.5 | 5.0 | ✓ |
| Total Hexavalent Chromium (Cr VI) by IC | E532 | 1449383 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Total Mercury in Water by CVAAS | E508 | 1449472 | 1 | 12 | 8.3 | 5.0 | ✓ |
| Total Metals in Water by CRC ICPMS | E420 | 1446230 | 1 | 20 | 5.0 | 5.0 | ✓ |
| Total Nitrogen by Colourimetry | E366 | 1456649 | 1 | 5 | 20.0 | 5.0 | ✓ |
| Total Phosphorus by Colourimetry (0.002 mg/L) | E372-U | 1456647 | 1 | 15 | 6.6 | 5.0 | ✓ |



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Work Order : VA24B0899
Client : Triton Environmental Consultants Ltd.
Project : 11964

| Matrix: Water | | | | | | | Evaluation: ✗ = QC frequency outside specification; ✓ = QC frequency within specification. | | |
|--|--|--------|----------|-------|---------|---------------|--|------------|--|
| Quality Control Sample Type | | | | Count | | Frequency (%) | | | |
| Analytical Methods | | Method | QC Lot # | QC | Regular | Actual | Expected | Evaluation | |
| Matrix Spikes (MS) - Continued | | | | | | | | | |
| Total Sulfide by Colourimetry (Automated Flow) | | E395 | 1452891 | 1 | 12 | 8.3 | 5.0 | ✓ | |



Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

| Analytical Methods | Method / Lab | Matrix | Method Reference | Method Descriptions |
|------------------------------------|---|---------------|-------------------------|---|
| TSS by Gravimetry | E160 ALS Environmental - Vancouver | Water | APHA 2540 D (mod) | Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at $104 \pm 1^\circ\text{C}$, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples. |
| TDS by Gravimetry | E162 ALS Environmental - Vancouver | Water | APHA 2540 C (mod) | Total Dissolved Solids (TDS) are determined by filtering a sample through a glass fibre filter, with evaporation of the filtrate at $180 \pm 2^\circ\text{C}$ for 16 hours or to constant weight, with gravimetric measurement of the residue. |
| Bromide in Water by IC (Low Level) | E235.Br-L ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Chloride in Water by IC | E235.Cl ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Fluoride in Water by IC | E235.F ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Nitrite in Water by IC (Low Level) | E235.NO2-L ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Nitrate in Water by IC (Low Level) | E235.NO3-L ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Sulfate in Water by IC | E235.SO4 ALS Environmental - Vancouver | Water | EPA 300.1 (mod) | Inorganic anions are analyzed by Ion Chromatography with conductivity and/or UV detection. |
| Alkalinity Species by Titration | E290 ALS Environmental - Vancouver | Water | APHA 2320 B (mod) | Total alkalinity is determined by potentiometric titration to a pH 4.5 endpoint. Bicarbonate, carbonate and hydroxide alkalinity are calculated from phenolphthalein alkalinity and total alkalinity values. |



| Analytical Methods | | | | |
|--|---|--------|--|--|
| | Method / Lab | Matrix | Method Reference | Method Descriptions |
| Ammonia by Fluorescence | E298 ALS Environmental - Vancouver | Water | Method Fialab 100, 2018 | Ammonia in water is determined by automated continuous flow analysis with membrane diffusion and fluorescence detection, after reaction with OPA (ortho-phthalaldehyde). This method is approved under US EPA 40 CFR Part 136 (May 2021) |
| Dissolved Organic Carbon by Combustion (Low Level) | E358-L ALS Environmental - Vancouver | Water | APHA 5310 B (mod) | Dissolved Organic Carbon (Non-Purgeable), also known as NPOC (dissolved), is a direct measurement of DOC after a filtered (0.45 micron) sample has been acidified and purged to remove inorganic carbon (IC). Analysis is by high temperature combustion with infrared detection of CO ₂ . NPOC does not include volatile organic species that are purged off with IC. For samples where the majority of DC (dissolved carbon) is comprised of IC (which is common), this method is more accurate and more reliable than the DOC by subtraction method (i.e. DC minus DIC). |
| Total Nitrogen by Colourimetry | E366 ALS Environmental - Vancouver | Water | Chinchilla Scientific Nitrate Method, 2011 | Following digestion, total nitrogen is determined colourimetrically using a discrete analyzer utilizing the vanadium chloride reduction method. This method of analysis is approved under US EPA 40 CFR Part 136 (May 2021). |
| Total Phosphorus by Colourimetry (0.002 mg/L) | E372-U ALS Environmental - Vancouver | Water | APHA 4500-P E (mod.) | Total Phosphorus is determined colourimetrically using a discrete analyzer after heated persulfate digestion of the sample. |
| Total Sulfide by Colourimetry (Automated Flow) | E395 ALS Environmental - Vancouver | Water | APHA 4500 -S E-Auto-Colorimetry | Sulfide is determined using the gas dialysis automated methylene blue colourimetric method. Results expressed "as H ₂ S" if reported represent the maximum possible H ₂ S concentration based on the total sulfide concentration in the sample. The H ₂ S calculation converts Total Sulphide as (S ²⁻) and reports it as Total Sulphide as (H ₂ S) |
| Total Metals in Water by CRC ICPMS | E420 ALS Environmental - Vancouver | Water | EPA 200.2/6020B (mod) | <p>Water samples are digested with nitric and hydrochloric acids, and analyzed by Collision/Reaction Cell ICPMS.</p> <p>Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.</p> |
| Dissolved Metals in Water by CRC ICPMS | E421 ALS Environmental - Vancouver | Water | APHA 3030B/EPA 6020B (mod) | <p>Water samples are filtered (0.45 um), preserved with nitric acid, and analyzed by Collision/Reaction Cell ICPMS.</p> <p>Method Limitation (re: Sulfur): Sulfide and volatile sulfur species may not be recovered by this method.</p> |
| Total Mercury in Water by CVAAS | E508 ALS Environmental - Vancouver | Water | EPA 1631E (mod) | Water samples undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS |
| Dissolved Mercury in Water by CVAAS | E509 ALS Environmental - Vancouver | Water | APHA 3030B/EPA 1631E (mod) | Water samples are filtered (0.45 um), preserved with HCl, then undergo a cold-oxidation using bromine monochloride prior to reduction with stannous chloride, and analyzed by CVAAS. |



| Analytical Methods | | Method / Lab | Matrix | Method Reference | Method Descriptions |
|--|--|---|--------|-------------------------------------|---|
| Total Hexavalent Chromium (Cr VI) by IC | | E532 ALS Environmental - Vancouver | Water | APHA 3500-Cr C (Ion Chromatography) | <p>Hexavalent Chromium is measured by Ion chromatography-Post column reaction and UV detection.</p> <p>Results are based on an un-filtered, field-preserved sample.</p> |
| Dissolved Hardness (Calculated) | | EC100 ALS Environmental - Vancouver | Water | APHA 2340B | "Hardness (as CaCO ₃ , dissolved)" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations. |
| Hardness (Calculated) from Total Ca/Mg | | EC100A ALS Environmental - Vancouver | Water | APHA 2340B | "Hardness (as CaCO ₃ , from total Ca/Mg)" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO ₃ equivalents. "Total Hardness" refers to the sum of Calcium and Magnesium Hardness. Hardness is normally or preferentially calculated from dissolved Calcium and Magnesium concentrations, because it is a property of water due to dissolved divalent cations. Hardness from total Ca/Mg is normally comparable to Dissolved Hardness in non-turbid waters. |
| Un-ionized Total Hydrogen Sulfide (calculated) | | EC395 ALS Environmental - Vancouver | Water | APHA 4500 -S H | Un-ionized sulfide is calculated using results from total sulfide analysis, pH, temperature, and ionic strength of the sample. Calculation of un-ionized sulfide using total sulfide concentrations may be biased high due to particulate forms of sulfide measured during total sulfide testing. |
| Total Trivalent Chromium (Cr III) by Calculation | | EC535 ALS Environmental - Vancouver | Water | APHA 3030B/6020A/EPA 7196A (mod) | Chromium (III)-Total is calculated as the difference between the total chromium and the total hexavalent chromium (Cr(VI)) results. The Limit of Reporting for Chromium (III) varies as a function of the test results. |
| Field pH,EC,Salinity,Cl ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ ,Chloramine | | EF001 ALS Environmental - Vancouver | Water | Field Measurement (Client Supplied) | Field pH,EC,Salinity,Cl ₂ ,ClO ₂ ,ORP,DO, Turbidity,T,T-P,o-PO ₄ ,NH ₃ or Chloramine measurements provided by client and recorded on ALS report may affect the validity of results. |

| Preparation Methods | | Method / Lab | Matrix | Method Reference | Method Descriptions |
|---|--|--|--------|----------------------|--|
| Preparation for Ammonia | | EP298 ALS Environmental - Vancouver | Water | | Sample preparation for Preserved Nutrients Water Quality Analysis. |
| Preparation for Dissolved Organic Carbon for Combustion | | EP358 ALS Environmental - Vancouver | Water | APHA 5310 B (mod) | Preparation for Dissolved Organic Carbon |
| Digestion for Total Nitrogen in water | | EP366 ALS Environmental - Vancouver | Water | APHA 4500-P J (mod) | Samples for total nitrogen analysis are digested using a heated persulfate digestion. Nitrogen compounds are converted to nitrate in this digestion. |
| Digestion for Total Phosphorus in water | | EP372 ALS Environmental - Vancouver | Water | APHA 4500-P E (mod). | Samples are heated with a persulfate digestion reagent. |



| Preparation Methods | | Method / Lab | Matrix | Method Reference | Method Descriptions |
|------------------------------------|--|--|--------|------------------|--|
| Dissolved Metals Water Filtration | | EP421 ALS Environmental - Vancouver | Water | APHA 3030B | Water samples are filtered (0.45 um), and preserved with HNO3. |
| Dissolved Mercury Water Filtration | | EP509 ALS Environmental - Vancouver | Water | APHA 3030B | Water samples are filtered (0.45 um), and preserved with HCl. |

QUALITY CONTROL REPORT

| | | | |
|-------------------------|---|-------------------------|---------------------------------|
| Work Order | : VA24B0899 | Page | : 1 of 17 |
| Client | : Triton Environmental Consultants Ltd. | Laboratory | : ALS Environmental - Vancouver |
| Contact | | Account Manager | |
| Address | | Address | |
| Telephone | | Telephone | |
| Project | : 11964 | Date Samples Received | : 15-May-2024 17:45 |
| PO | : 11964 - Task 20 - Phase 3C -4C | Date Analysis Commenced | : 16-May-2024 |
| C-O-C number | : ---- | Issue Date | : 28-May-2024 16:19 |
| Sampler | : ---- | | |
| Site | : Water Analysis | | |
| Quote number | : VA23-TRIT100-012 _V2 | | |
| No. of samples received | : 4 | | |
| No. of samples analysed | : 4 | | |

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

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Matrix Spike (MS) Report; Recovery and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

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

| Signatories | Position | Laboratory Department |
|-------------|--|---|
| | Analyst | Vancouver Metals, Burnaby, British Columbia |
| | Lab Assistant | Vancouver Metals, Burnaby, British Columbia |
| | Laboratory Analyst | Vancouver Metals, Burnaby, British Columbia |
| | Supervisor - Inorganic | Vancouver Inorganics, Burnaby, British Columbia |
| | Department Manager - Metals | Vancouver Inorganics, Burnaby, British Columbia |
| | Department Manager - Inorganics | Vancouver Inorganics, Burnaby, British Columbia |
| | Account Manager Assistant | Vancouver Metals, Burnaby, British Columbia |
| | Supervisor - Water Quality Instrumentation | Vancouver Administration, Burnaby, British Columbia |
| | | Vancouver Inorganics, Burnaby, British Columbia |



General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.

CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.

DQO = Data Quality Objective.

LOR = Limit of Reporting (detection limit).

RPD = Relative Percent Difference

= Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "—" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.



Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: Water

| Laboratory Duplicate (DUP) Report | | | | | | | | | | | |
|---|------------------|---|------------|------------|---------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | LOR | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Physical Tests (QC Lot: 1447228) | | | | | | | | | | | |
| VA24B0845-001 | Anonymous | Alkalinity, total (as CaCO ₃) | --- | E290 | 1.0 | mg/L | 339 | 336 | 1.07% | 20% | --- |
| Physical Tests (QC Lot: 1454424) | | | | | | | | | | | |
| VA24B0899-001 | WLNJG DS1 | Solids, total dissolved [TDS] | --- | E162 | 10 | mg/L | 24 | 22 | 2 | Diff <2x LOR | --- |
| Physical Tests (QC Lot: 1454487) | | | | | | | | | | | |
| VA24B0899-001 | WLNJG DS1 | Solids, total suspended [TSS] | --- | E160 | 3.0 | mg/L | 4.2 | <3.0 | 1.2 | Diff <2x LOR | --- |
| Anions and Nutrients (QC Lot: 1447231) | | | | | | | | | | | |
| VA24B0732-001 | Anonymous | Fluoride | 16984-48-8 | E235.F | 0.020 | mg/L | 0.057 | 0.057 | 0.0004 | Diff <2x LOR | --- |
| Anions and Nutrients (QC Lot: 1447232) | | | | | | | | | | | |
| VA24B0732-001 | Anonymous | Chloride | 16887-00-6 | E235.Cl | 0.50 | mg/L | 1.57 | 1.55 | 0.02 | Diff <2x LOR | --- |
| Anions and Nutrients (QC Lot: 1447233) | | | | | | | | | | | |
| VA24B0732-001 | Anonymous | Bromide | 24959-67-9 | E235.Br-L | 0.050 | mg/L | <0.050 | <0.050 | 0 | Diff <2x LOR | --- |
| Anions and Nutrients (QC Lot: 1447234) | | | | | | | | | | | |
| VA24B0732-001 | Anonymous | Nitrate (as N) | 14797-55-8 | E235.NO3-L | 0.0050 | mg/L | 0.300 | 0.300 | 0.104% | 20% | --- |
| Anions and Nutrients (QC Lot: 1447235) | | | | | | | | | | | |
| VA24B0732-001 | Anonymous | Nitrite (as N) | 14797-65-0 | E235.NO2-L | 0.0010 | mg/L | 0.0615 | 0.0604 | 1.77% | 20% | --- |
| Anions and Nutrients (QC Lot: 1447236) | | | | | | | | | | | |
| VA24B0732-001 | Anonymous | Sulfate (as SO ₄) | 14808-79-8 | E235.SO4 | 0.30 | mg/L | 42.9 | 42.7 | 0.376% | 20% | --- |
| Anions and Nutrients (QC Lot: 1456647) | | | | | | | | | | | |
| KS2401736-001 | Anonymous | Phosphorus, total | 7723-14-0 | E372-U | 0.0400 | mg/L | 1.43 | 1.38 | 3.54% | 20% | --- |
| Anions and Nutrients (QC Lot: 1456649) | | | | | | | | | | | |
| KS2401732-001 | Anonymous | Nitrogen, total | 7727-37-9 | E366 | 1.50 | mg/L | 54.5 | 56.2 | 3.13% | 20% | --- |
| Anions and Nutrients (QC Lot: 1456650) | | | | | | | | | | | |
| KS2401736-001 | Anonymous | Ammonia, total (as N) | 7664-41-7 | E298 | 0.0500 | mg/L | 0.957 | 0.923 | 3.60% | 20% | --- |
| Organic / Inorganic Carbon (QC Lot: 1456646) | | | | | | | | | | | |
| VA24B0726-001 | Anonymous | Carbon, dissolved organic [DOC] | --- | E358-L | 0.50 | mg/L | 1.24 | 1.32 | 0.08 | Diff <2x LOR | --- |
| Total Sulfides (QC Lot: 1452891) | | | | | | | | | | | |
| CG2406382-001 | Anonymous | Sulfide, total (as S) | 18496-25-8 | E395 | 0.0150 | mg/L | 0.0443 | 0.0433 | 0.0010 | Diff <2x LOR | --- |
| Total Metals (QC Lot: 1446230) | | | | | | | | | | | |
| VA24B0906-001 | Anonymous | Aluminum, total | 7429-90-5 | E420 | 0.0030 | mg/L | 0.0618 | 0.0672 | 8.34% | 20% | --- |
| | | Antimony, total | 7440-36-0 | E420 | 0.00010 | mg/L | 0.00022 | 0.00021 | 0.00001 | Diff <2x LOR | --- |



| Sub-Matrix: Water | | | | | Laboratory Duplicate (DUP) Report | | | | | | |
|---|------------------|-------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | LOR | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Total Metals (QC Lot: 1446230) - continued | | | | | | | | | | | |
| VA24B0906-001 | Anonymous | Arsenic, total | 7440-38-2 | E420 | 0.00010 | mg/L | 0.00042 | 0.00042 | 0.0000005 | Diff <2x LOR | --- |
| | | Barium, total | 7440-39-3 | E420 | 0.00010 | mg/L | 0.0720 | 0.0724 | 0.554% | 20% | --- |
| | | Beryllium, total | 7440-41-7 | E420 | 0.000020 | mg/L | <0.000020 | <0.000020 | 0 | Diff <2x LOR | --- |
| | | Bismuth, total | 7440-69-9 | E420 | 0.000050 | mg/L | <0.000050 | <0.000050 | 0 | Diff <2x LOR | --- |
| | | Boron, total | 7440-42-8 | E420 | 0.010 | mg/L | 0.064 | 0.064 | 0.00005 | Diff <2x LOR | --- |
| | | Cadmium, total | 7440-43-9 | E420 | 0.0000050 | mg/L | 0.0000095 | 0.0000095 | 0.00000001 | Diff <2x LOR | --- |
| | | Calcium, total | 7440-70-2 | E420 | 0.050 | mg/L | 30.3 | 30.8 | 1.55% | 20% | --- |
| | | Cesium, total | 7440-46-2 | E420 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | --- |
| | | Chromium, total | 7440-47-3 | E420 | 0.00050 | mg/L | 0.00073 | 0.00075 | 0.00002 | Diff <2x LOR | --- |
| | | Cobalt, total | 7440-48-4 | E420 | 0.00010 | mg/L | <0.00010 | 0.00010 | 0.00003 | Diff <2x LOR | --- |
| | | Copper, total | 7440-50-8 | E420 | 0.00050 | mg/L | 0.00184 | 0.00183 | 0.000008 | Diff <2x LOR | --- |
| | | Iron, total | 7439-89-6 | E420 | 0.010 | mg/L | 0.085 | 0.086 | 0.0008 | Diff <2x LOR | --- |
| | | Lead, total | 7439-92-1 | E420 | 0.000050 | mg/L | <0.000050 | <0.000050 | 0 | Diff <2x LOR | --- |
| | | Lithium, total | 7439-93-2 | E420 | 0.0010 | mg/L | 0.0022 | 0.0022 | 0.00002 | Diff <2x LOR | --- |
| | | Magnesium, total | 7439-95-4 | E420 | 0.0050 | mg/L | 30.9 | 31.7 | 2.50% | 20% | --- |
| | | Manganese, total | 7439-96-5 | E420 | 0.00010 | mg/L | 0.00690 | 0.00691 | 0.260% | 20% | --- |
| | | Molybdenum, total | 7439-98-7 | E420 | 0.000050 | mg/L | 0.00121 | 0.00122 | 0.696% | 20% | --- |
| | | Nickel, total | 7440-02-0 | E420 | 0.00050 | mg/L | 0.00656 | 0.00667 | 1.80% | 20% | --- |
| | | Phosphorus, total | 7723-14-0 | E420 | 0.050 | mg/L | <0.050 | <0.050 | 0 | Diff <2x LOR | --- |
| | | Potassium, total | 7440-09-7 | E420 | 0.050 | mg/L | 0.960 | 0.967 | 0.702% | 20% | --- |
| | | Rubidium, total | 7440-17-7 | E420 | 0.00020 | mg/L | 0.00044 | 0.00042 | 0.00002 | Diff <2x LOR | --- |
| | | Selenium, total | 7782-49-2 | E420 | 0.000050 | mg/L | 0.000429 | 0.000425 | 0.000004 | Diff <2x LOR | --- |
| | | Silicon, total | 7440-21-3 | E420 | 0.10 | mg/L | 6.38 | 6.40 | 0.253% | 20% | --- |
| | | Silver, total | 7440-22-4 | E420 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | --- |
| | | Sodium, total | 7440-23-5 | E420 | 0.050 | mg/L | 3.50 | 3.56 | 1.77% | 20% | --- |
| | | Strontium, total | 7440-24-6 | E420 | 0.00020 | mg/L | 0.176 | 0.177 | 0.122% | 20% | --- |
| | | Sulfur, total | 7704-34-9 | E420 | 0.50 | mg/L | 7.44 | 7.48 | 0.569% | 20% | --- |
| | | Tellurium, total | 13494-80-9 | E420 | 0.00020 | mg/L | <0.00020 | <0.00020 | 0 | Diff <2x LOR | --- |
| | | Thallium, total | 7440-28-0 | E420 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | --- |
| | | Thorium, total | 7440-29-1 | E420 | 0.00010 | mg/L | <0.00010 | <0.00010 | 0 | Diff <2x LOR | --- |
| | | Tin, total | 7440-31-5 | E420 | 0.00010 | mg/L | <0.00010 | <0.00010 | 0 | Diff <2x LOR | --- |
| | | Titanium, total | 7440-32-6 | E420 | 0.00030 | mg/L | 0.00209 | 0.00211 | 0.00002 | Diff <2x LOR | --- |
| | | Tungsten, total | 7440-33-7 | E420 | 0.00010 | mg/L | <0.00010 | <0.00010 | 0 | Diff <2x LOR | --- |
| | | Uranium, total | 7440-61-1 | E420 | 0.000010 | mg/L | 0.000092 | 0.000090 | 0.000002 | Diff <2x LOR | --- |



| Sub-Matrix: Water | | | | | Laboratory Duplicate (DUP) Report | | | | | | |
|---|------------------|-----------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | LOR | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier |
| Total Metals (QC Lot: 1446230) - continued | | | | | | | | | | | |
| VA24B0906-001 | Anonymous | Vanadium, total | 7440-62-2 | E420 | 0.00050 | mg/L | 0.00066 | 0.00067 | 0.00002 | Diff <2x LOR | --- |
| | | Zinc, total | 7440-66-6 | E420 | 0.0030 | mg/L | <0.0030 | <0.0030 | 0 | Diff <2x LOR | --- |
| | | Zirconium, total | 7440-67-7 | E420 | 0.00020 | mg/L | <0.00020 | <0.00020 | 0 | Diff <2x LOR | --- |
| Total Metals (QC Lot: 1449472) | | | | | | | | | | | |
| VA24B0878-001 | Anonymous | Mercury, total | 7439-97-6 | E508 | 0.0000050 | mg/L | <0.0000050 | <0.0000050 | 0 | Diff <2x LOR | --- |
| Dissolved Metals (QC Lot: 1446224) | | | | | | | | | | | |
| VA24B0906-001 | Anonymous | Aluminum, dissolved | 7429-90-5 | E421 | 0.0010 | mg/L | 0.0050 | 0.0045 | 0.0004 | Diff <2x LOR | --- |
| | | Antimony, dissolved | 7440-36-0 | E421 | 0.00010 | mg/L | 0.00018 | 0.00019 | 0.000009 | Diff <2x LOR | --- |
| | | Arsenic, dissolved | 7440-38-2 | E421 | 0.00010 | mg/L | 0.00036 | 0.00037 | 0.00001 | Diff <2x LOR | --- |
| | | Barium, dissolved | 7440-39-3 | E421 | 0.00010 | mg/L | 0.0714 | 0.0710 | 0.448% | 20% | --- |
| | | Beryllium, dissolved | 7440-41-7 | E421 | 0.000020 | mg/L | <0.000020 | <0.000020 | 0 | Diff <2x LOR | --- |
| | | Bismuth, dissolved | 7440-69-9 | E421 | 0.000050 | mg/L | <0.000050 | <0.000050 | 0 | Diff <2x LOR | --- |
| | | Boron, dissolved | 7440-42-8 | E421 | 0.010 | mg/L | 0.059 | 0.062 | 0.003 | Diff <2x LOR | --- |
| | | Cadmium, dissolved | 7440-43-9 | E421 | 0.0000050 | mg/L | 0.0000069 | 0.0000082 | 0.0000013 | Diff <2x LOR | --- |
| | | Calcium, dissolved | 7440-70-2 | E421 | 0.050 | mg/L | 30.5 | 30.7 | 0.850% | 20% | --- |
| | | Cesium, dissolved | 7440-46-2 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | --- |
| | | Chromium, dissolved | 7440-47-3 | E421 | 0.00050 | mg/L | 0.00057 | 0.00054 | 0.00003 | Diff <2x LOR | --- |
| | | Cobalt, dissolved | 7440-48-4 | E421 | 0.00010 | mg/L | <0.00010 | <0.00010 | 0 | Diff <2x LOR | --- |
| | | Copper, dissolved | 7440-50-8 | E421 | 0.00020 | mg/L | 0.00165 | 0.00162 | 0.00003 | Diff <2x LOR | --- |
| | | Iron, dissolved | 7439-89-6 | E421 | 0.010 | mg/L | 0.028 | 0.027 | 0.0007 | Diff <2x LOR | --- |
| | | Lead, dissolved | 7439-92-1 | E421 | 0.000050 | mg/L | <0.000050 | <0.000050 | 0 | Diff <2x LOR | --- |
| | | Lithium, dissolved | 7439-93-2 | E421 | 0.0010 | mg/L | 0.0021 | 0.0021 | 0.00007 | Diff <2x LOR | --- |
| | | Magnesium, dissolved | 7439-95-4 | E421 | 0.0050 | mg/L | 28.8 | 27.6 | 4.03% | 20% | --- |
| | | Manganese, dissolved | 7439-96-5 | E421 | 0.00010 | mg/L | 0.00446 | 0.00427 | 4.44% | 20% | --- |
| | | Molybdenum, dissolved | 7439-98-7 | E421 | 0.000050 | mg/L | 0.00117 | 0.00120 | 2.06% | 20% | --- |
| | | Nickel, dissolved | 7440-02-0 | E421 | 0.00050 | mg/L | 0.00609 | 0.00585 | 4.05% | 20% | --- |
| | | Phosphorus, dissolved | 7723-14-0 | E421 | 0.050 | mg/L | <0.050 | <0.050 | 0 | Diff <2x LOR | --- |
| | | Potassium, dissolved | 7440-09-7 | E421 | 0.050 | mg/L | 1.00 | 0.980 | 2.29% | 20% | --- |
| | | Rubidium, dissolved | 7440-17-7 | E421 | 0.00020 | mg/L | 0.00038 | 0.00040 | 0.00003 | Diff <2x LOR | --- |
| | | Selenium, dissolved | 7782-49-2 | E421 | 0.000050 | mg/L | 0.000534 | 0.000481 | 10.6% | 20% | --- |
| | | Silicon, dissolved | 7440-21-3 | E421 | 0.050 | mg/L | 6.18 | 6.23 | 0.697% | 20% | --- |
| | | Silver, dissolved | 7440-22-4 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | --- |
| | | Sodium, dissolved | 7440-23-5 | E421 | 0.050 | mg/L | 3.40 | 3.25 | 4.47% | 20% | --- |
| | | Strontium, dissolved | 7440-24-6 | E421 | 0.00020 | mg/L | 0.179 | 0.182 | 1.64% | 20% | --- |



| Sub-Matrix: Water | | | | | Laboratory Duplicate (DUP) Report | | | | | | | |
|---|------------------|-------------------------------------|------------|--------|-----------------------------------|------|-----------------|------------------|----------------------|------------------|-----------|--|
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | LOR | Unit | Original Result | Duplicate Result | RPD(%) or Difference | Duplicate Limits | Qualifier | |
| Dissolved Metals (QC Lot: 1446224) - continued | | | | | | | | | | | | |
| VA24B0906-001 | Anonymous | Sulfur, dissolved | 7704-34-9 | E421 | 0.50 | mg/L | 7.08 | 6.84 | 3.40% | 20% | --- | |
| | | Tellurium, dissolved | 13494-80-9 | E421 | 0.00020 | mg/L | <0.00020 | <0.00020 | 0 | Diff <2x LOR | --- | |
| | | Thallium, dissolved | 7440-28-0 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | --- | |
| | | Thorium, dissolved | 7440-29-1 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | --- | |
| | | Tin, dissolved | 7440-31-5 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | --- | |
| | | Titanium, dissolved | 7440-32-6 | E421 | 0.000030 | mg/L | 0.000030 | <0.000030 | 0.000005 | Diff <2x LOR | --- | |
| | | Tungsten, dissolved | 7440-33-7 | E421 | 0.000010 | mg/L | <0.000010 | <0.000010 | 0 | Diff <2x LOR | --- | |
| | | Uranium, dissolved | 7440-61-1 | E421 | 0.000010 | mg/L | 0.000081 | 0.000085 | 0.000004 | Diff <2x LOR | --- | |
| | | Vanadium, dissolved | 7440-62-2 | E421 | 0.000050 | mg/L | <0.000050 | <0.000050 | 0 | Diff <2x LOR | --- | |
| | | Zinc, dissolved | 7440-66-6 | E421 | 0.0010 | mg/L | <0.0010 | <0.0010 | 0 | Diff <2x LOR | --- | |
| | | Zirconium, dissolved | 7440-67-7 | E421 | 0.000030 | mg/L | <0.000030 | <0.000030 | 0 | Diff <2x LOR | --- | |
| Dissolved Metals (QC Lot: 1449433) | | | | | | | | | | | | |
| VA24B0844-004 | Anonymous | Mercury, dissolved | 7439-97-6 | E509 | 0.0000050 | mg/L | <0.0050 µg/L | <0.0000050 | 0 | Diff <2x LOR | --- | |
| Speciated Metals (QC Lot: 1449383) | | | | | | | | | | | | |
| VA24B0899-001 | WLNJG DS1 | Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532 | 0.00050 | mg/L | <0.00050 | <0.00050 | 0 | Diff <2x LOR | --- | |

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: Water

| Analyte | CAS Number | Method | LOR | Unit | Result | Qualifier |
|--|------------|------------|--------|------|----------|-----------|
| Physical Tests (QCLot: 1447228) | | | | | | |
| Alkalinity, total (as CaCO ₃) | --- | E290 | 1 | mg/L | <1.0 | --- |
| Physical Tests (QCLot: 1454424) | | | | | | |
| Solids, total dissolved [TDS] | --- | E162 | 10 | mg/L | <10 | --- |
| Physical Tests (QCLot: 1454487) | | | | | | |
| Solids, total suspended [TSS] | --- | E160 | 3 | mg/L | <3.0 | --- |
| Anions and Nutrients (QCLot: 1447231) | | | | | | |
| Fluoride | 16984-48-8 | E235.F | 0.02 | mg/L | <0.020 | --- |
| Anions and Nutrients (QCLot: 1447232) | | | | | | |
| Chloride | 16887-00-6 | E235.Cl | 0.5 | mg/L | <0.50 | --- |
| Anions and Nutrients (QCLot: 1447233) | | | | | | |
| Bromide | 24959-67-9 | E235.Br-L | 0.05 | mg/L | <0.050 | --- |
| Anions and Nutrients (QCLot: 1447234) | | | | | | |
| Nitrate (as N) | 14797-55-8 | E235.NO3-L | 0.005 | mg/L | <0.0050 | --- |
| Anions and Nutrients (QCLot: 1447235) | | | | | | |
| Nitrite (as N) | 14797-65-0 | E235.NO2-L | 0.001 | mg/L | <0.0010 | --- |
| Anions and Nutrients (QCLot: 1447236) | | | | | | |
| Sulfate (as SO ₄) | 14808-79-8 | E235.SO4 | 0.3 | mg/L | <0.30 | --- |
| Anions and Nutrients (QCLot: 1456647) | | | | | | |
| Phosphorus, total | 7723-14-0 | E372-U | 0.002 | mg/L | <0.0020 | --- |
| Anions and Nutrients (QCLot: 1456649) | | | | | | |
| Nitrogen, total | 7727-37-9 | E366 | 0.03 | mg/L | <0.030 | --- |
| Anions and Nutrients (QCLot: 1456650) | | | | | | |
| Ammonia, total (as N) | 7664-41-7 | E298 | 0.005 | mg/L | <0.0050 | --- |
| Organic / Inorganic Carbon (QCLot: 1456646) | | | | | | |
| Carbon, dissolved organic [DOC] | --- | E358-L | 0.5 | mg/L | <0.50 | --- |
| Total Sulfides (QCLot: 1452891) | | | | | | |
| Sulfide, total (as S) | 18496-25-8 | E395 | 0.0015 | mg/L | <0.0015 | --- |
| Total Metals (QCLot: 1446230) | | | | | | |
| Aluminum, total | 7429-90-5 | E420 | 0.003 | mg/L | <0.0030 | --- |
| Antimony, total | 7440-36-0 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Arsenic, total | 7440-38-2 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Barium, total | 7440-39-3 | E420 | 0.0001 | mg/L | <0.00010 | --- |

Sub-Matrix: Water

| Analyte | CAS Number | Method | LOR | Unit | Result | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| Total Metals (QCLot: 1446230) - continued | | | | | | |
| Beryllium, total | 7440-41-7 | E420 | 0.00002 | mg/L | <0.000020 | --- |
| Bismuth, total | 7440-69-9 | E420 | 0.00005 | mg/L | <0.000050 | --- |
| Boron, total | 7440-42-8 | E420 | 0.01 | mg/L | <0.010 | --- |
| Cadmium, total | 7440-43-9 | E420 | 0.000005 | mg/L | <0.0000050 | --- |
| Calcium, total | 7440-70-2 | E420 | 0.05 | mg/L | <0.050 | --- |
| Cesium, total | 7440-46-2 | E420 | 0.00001 | mg/L | <0.000010 | --- |
| Chromium, total | 7440-47-3 | E420 | 0.0005 | mg/L | <0.00050 | --- |
| Cobalt, total | 7440-48-4 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Copper, total | 7440-50-8 | E420 | 0.0005 | mg/L | <0.00050 | --- |
| Iron, total | 7439-89-6 | E420 | 0.01 | mg/L | <0.010 | --- |
| Lead, total | 7439-92-1 | E420 | 0.00005 | mg/L | <0.000050 | --- |
| Lithium, total | 7439-93-2 | E420 | 0.001 | mg/L | <0.0010 | --- |
| Magnesium, total | 7439-95-4 | E420 | 0.005 | mg/L | <0.0050 | --- |
| Manganese, total | 7439-96-5 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Molybdenum, total | 7439-98-7 | E420 | 0.00005 | mg/L | <0.000050 | --- |
| Nickel, total | 7440-02-0 | E420 | 0.0005 | mg/L | <0.00050 | --- |
| Phosphorus, total | 7723-14-0 | E420 | 0.05 | mg/L | <0.050 | --- |
| Potassium, total | 7440-09-7 | E420 | 0.05 | mg/L | <0.050 | --- |
| Rubidium, total | 7440-17-7 | E420 | 0.0002 | mg/L | <0.00020 | --- |
| Selenium, total | 7782-49-2 | E420 | 0.00005 | mg/L | <0.000050 | --- |
| Silicon, total | 7440-21-3 | E420 | 0.1 | mg/L | <0.10 | --- |
| Silver, total | 7440-22-4 | E420 | 0.00001 | mg/L | <0.000010 | --- |
| Sodium, total | 7440-23-5 | E420 | 0.05 | mg/L | <0.050 | --- |
| Strontium, total | 7440-24-6 | E420 | 0.0002 | mg/L | <0.00020 | --- |
| Sulfur, total | 7704-34-9 | E420 | 0.5 | mg/L | <0.50 | --- |
| Tellurium, total | 13494-80-9 | E420 | 0.0002 | mg/L | <0.00020 | --- |
| Thallium, total | 7440-28-0 | E420 | 0.00001 | mg/L | <0.000010 | --- |
| Thorium, total | 7440-29-1 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Tin, total | 7440-31-5 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Titanium, total | 7440-32-6 | E420 | 0.0003 | mg/L | <0.00030 | --- |
| Tungsten, total | 7440-33-7 | E420 | 0.0001 | mg/L | <0.00010 | --- |
| Uranium, total | 7440-61-1 | E420 | 0.00001 | mg/L | <0.000010 | --- |
| Vanadium, total | 7440-62-2 | E420 | 0.0005 | mg/L | <0.00050 | --- |
| Zinc, total | 7440-66-6 | E420 | 0.003 | mg/L | <0.0030 | --- |
| Zirconium, total | 7440-67-7 | E420 | 0.0002 | mg/L | <0.00020 | --- |

Sub-Matrix: Water

| Analyte | CAS Number | Method | LOR | Unit | Result | Qualifier |
|---|------------|--------|----------|------|------------|-----------|
| Total Metals (QC Lot: 1449472) | | | | | | |
| Mercury, total | 7439-97-6 | E508 | 0.000005 | mg/L | <0.0000050 | --- |
| Dissolved Metals (QC Lot: 1446224) | | | | | | |
| Aluminum, dissolved | 7429-90-5 | E421 | 0.001 | mg/L | <0.0010 | --- |
| Antimony, dissolved | 7440-36-0 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Arsenic, dissolved | 7440-38-2 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Barium, dissolved | 7440-39-3 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Beryllium, dissolved | 7440-41-7 | E421 | 0.00002 | mg/L | <0.000020 | --- |
| Bismuth, dissolved | 7440-69-9 | E421 | 0.00005 | mg/L | <0.000050 | --- |
| Boron, dissolved | 7440-42-8 | E421 | 0.01 | mg/L | <0.010 | --- |
| Cadmium, dissolved | 7440-43-9 | E421 | 0.000005 | mg/L | <0.0000050 | --- |
| Calcium, dissolved | 7440-70-2 | E421 | 0.05 | mg/L | <0.050 | --- |
| Cesium, dissolved | 7440-46-2 | E421 | 0.00001 | mg/L | <0.000010 | --- |
| Chromium, dissolved | 7440-47-3 | E421 | 0.0005 | mg/L | <0.00050 | --- |
| Cobalt, dissolved | 7440-48-4 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Copper, dissolved | 7440-50-8 | E421 | 0.0002 | mg/L | <0.00020 | --- |
| Iron, dissolved | 7439-89-6 | E421 | 0.01 | mg/L | <0.010 | --- |
| Lead, dissolved | 7439-92-1 | E421 | 0.00005 | mg/L | <0.000050 | --- |
| Lithium, dissolved | 7439-93-2 | E421 | 0.001 | mg/L | <0.0010 | --- |
| Magnesium, dissolved | 7439-95-4 | E421 | 0.005 | mg/L | <0.0050 | --- |
| Manganese, dissolved | 7439-96-5 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Molybdenum, dissolved | 7439-98-7 | E421 | 0.00005 | mg/L | <0.000050 | --- |
| Nickel, dissolved | 7440-02-0 | E421 | 0.0005 | mg/L | <0.00050 | --- |
| Phosphorus, dissolved | 7723-14-0 | E421 | 0.05 | mg/L | <0.050 | --- |
| Potassium, dissolved | 7440-09-7 | E421 | 0.05 | mg/L | <0.050 | --- |
| Rubidium, dissolved | 7440-17-7 | E421 | 0.0002 | mg/L | <0.00020 | --- |
| Selenium, dissolved | 7782-49-2 | E421 | 0.00005 | mg/L | <0.000050 | --- |
| Silicon, dissolved | 7440-21-3 | E421 | 0.05 | mg/L | <0.050 | --- |
| Silver, dissolved | 7440-22-4 | E421 | 0.00001 | mg/L | <0.000010 | --- |
| Sodium, dissolved | 7440-23-5 | E421 | 0.05 | mg/L | <0.050 | --- |
| Strontium, dissolved | 7440-24-6 | E421 | 0.0002 | mg/L | <0.00020 | --- |
| Sulfur, dissolved | 7704-34-9 | E421 | 0.5 | mg/L | <0.50 | --- |
| Tellurium, dissolved | 13494-80-9 | E421 | 0.0002 | mg/L | <0.00020 | --- |
| Thallium, dissolved | 7440-28-0 | E421 | 0.00001 | mg/L | <0.000010 | --- |
| Thorium, dissolved | 7440-29-1 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Tin, dissolved | 7440-31-5 | E421 | 0.0001 | mg/L | <0.00010 | --- |

Sub-Matrix: Water

| Analyte | CAS Number | Method | LOR | Unit | Result | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| Dissolved Metals (QCLot: 1446224) - continued | | | | | | |
| Titanium, dissolved | 7440-32-6 | E421 | 0.0003 | mg/L | <0.00030 | --- |
| Tungsten, dissolved | 7440-33-7 | E421 | 0.0001 | mg/L | <0.00010 | --- |
| Uranium, dissolved | 7440-61-1 | E421 | 0.00001 | mg/L | <0.000010 | --- |
| Vanadium, dissolved | 7440-62-2 | E421 | 0.0005 | mg/L | <0.00050 | --- |
| Zinc, dissolved | 7440-66-6 | E421 | 0.001 | mg/L | <0.0010 | --- |
| Zirconium, dissolved | 7440-67-7 | E421 | 0.0002 | mg/L | <0.00020 | --- |
| Dissolved Metals (QCLot: 1449433) | | | | | | |
| Mercury, dissolved | 7439-97-6 | E509 | 0.000005 | mg/L | <0.0000050 | --- |
| Speciated Metals (QCLot: 1449383) | | | | | | |
| Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532 | 0.0005 | mg/L | <0.00050 | --- |

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

| Sub-Matrix: Water | Laboratory Control Sample (LCS) Report | | | | | | | | |
|---|--|------------|--------------|---------------------|----------------------|------|------|------|-----------|
| | | Spike | Recovery (%) | Recovery Limits (%) | | | | | |
| Analyte | CAS Number | Method | LOR | Unit | Target Concentration | LCS | Low | High | Qualifier |
| Physical Tests (QCLot: 1447228) | | | | | | | | | |
| Alkalinity, total (as CaCO ₃) | --- | E290 | 1 | mg/L | 500 mg/L | 110 | 85.0 | 115 | --- |
| Physical Tests (QC Lot: 1454424) | | | | | | | | | |
| Solids, total dissolved [TDS] | --- | E162 | 10 | mg/L | 1000 mg/L | 105 | 85.0 | 115 | --- |
| Physical Tests (QC Lot: 1454487) | | | | | | | | | |
| Solids, total suspended [TSS] | --- | E160 | 3 | mg/L | 150 mg/L | 96.0 | 85.0 | 115 | --- |
| Anions and Nutrients (QC Lot: 1447231) | | | | | | | | | |
| Fluoride | 16984-48-8 | E235.F | 0.02 | mg/L | 1 mg/L | 99.2 | 90.0 | 110 | --- |
| Anions and Nutrients (QC Lot: 1447232) | | | | | | | | | |
| Chloride | 16887-00-6 | E235.Cl | 0.5 | mg/L | 100 mg/L | 101 | 90.0 | 110 | --- |
| Anions and Nutrients (QC Lot: 1447233) | | | | | | | | | |
| Bromide | 24959-67-9 | E235.Br-L | 0.05 | mg/L | 0.5 mg/L | 102 | 85.0 | 115 | --- |
| Anions and Nutrients (QC Lot: 1447234) | | | | | | | | | |
| Nitrate (as N) | 14797-55-8 | E235.NO3-L | 0.005 | mg/L | 2.5 mg/L | 101 | 90.0 | 110 | --- |
| Anions and Nutrients (QC Lot: 1447235) | | | | | | | | | |
| Nitrite (as N) | 14797-65-0 | E235.NO2-L | 0.001 | mg/L | 0.5 mg/L | 97.9 | 90.0 | 110 | --- |
| Anions and Nutrients (QC Lot: 1447236) | | | | | | | | | |
| Sulfate (as SO ₄) | 14808-79-8 | E235.SO4 | 0.3 | mg/L | 100 mg/L | 102 | 90.0 | 110 | --- |
| Anions and Nutrients (QC Lot: 1456647) | | | | | | | | | |
| Phosphorus, total | 7723-14-0 | E372-U | 0.002 | mg/L | 0.05 mg/L | 99.2 | 80.0 | 120 | --- |
| Anions and Nutrients (QC Lot: 1456649) | | | | | | | | | |
| Nitrogen, total | 7727-37-9 | E366 | 0.03 | mg/L | 0.5 mg/L | 101 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1456650) | | | | | | | | | |
| Ammonia, total (as N) | 7664-41-7 | E298 | 0.005 | mg/L | 0.2 mg/L | 106 | 85.0 | 115 | --- |
| Organic / Inorganic Carbon (QC Lot: 1456646) | | | | | | | | | |
| Carbon, dissolved organic [DOC] | --- | E358-L | 0.5 | mg/L | 8.57 mg/L | 104 | 80.0 | 120 | --- |
| Total Sulfides (QC Lot: 1452891) | | | | | | | | | |
| Sulfide, total (as S) | 18496-25-8 | E395 | 0.0015 | mg/L | 0.08 mg/L | 94.5 | 80.0 | 120 | --- |
| Total Metals (QC Lot: 1446230) | | | | | | | | | |



Sub-Matrix: Water

| Analyte | CAS Number | Method | LOR | Unit | Laboratory Control Sample (LCS) Report | | | | |
|--|------------|--------|----------|------|--|--------------|---------------------|-----|-----------|
| | | | | | Spike | Recovery (%) | Recovery Limits (%) | | Qualifier |
| Total Metals (QCLot: 1446230) - continued | | | | | | | | | |
| Aluminum, total | 7429-90-5 | E420 | 0.003 | mg/L | 2 mg/L | 107 | 80.0 | 120 | --- |
| Antimony, total | 7440-36-0 | E420 | 0.0001 | mg/L | 1 mg/L | 103 | 80.0 | 120 | --- |
| Arsenic, total | 7440-38-2 | E420 | 0.0001 | mg/L | 1 mg/L | 106 | 80.0 | 120 | --- |
| Barium, total | 7440-39-3 | E420 | 0.0001 | mg/L | 0.25 mg/L | 103 | 80.0 | 120 | --- |
| Beryllium, total | 7440-41-7 | E420 | 0.00002 | mg/L | 0.1 mg/L | 103 | 80.0 | 120 | --- |
| Bismuth, total | 7440-69-9 | E420 | 0.00005 | mg/L | 1 mg/L | 99.5 | 80.0 | 120 | --- |
| Boron, total | 7440-42-8 | E420 | 0.01 | mg/L | 1 mg/L | 99.9 | 80.0 | 120 | --- |
| Cadmium, total | 7440-43-9 | E420 | 0.000005 | mg/L | 0.1 mg/L | 102 | 80.0 | 120 | --- |
| Calcium, total | 7440-70-2 | E420 | 0.05 | mg/L | 50 mg/L | 101 | 80.0 | 120 | --- |
| Cesium, total | 7440-46-2 | E420 | 0.00001 | mg/L | 0.05 mg/L | 104 | 80.0 | 120 | --- |
| Chromium, total | 7440-47-3 | E420 | 0.0005 | mg/L | 0.25 mg/L | 103 | 80.0 | 120 | --- |
| Cobalt, total | 7440-48-4 | E420 | 0.0001 | mg/L | 0.25 mg/L | 102 | 80.0 | 120 | --- |
| Copper, total | 7440-50-8 | E420 | 0.0005 | mg/L | 0.25 mg/L | 101 | 80.0 | 120 | --- |
| Iron, total | 7439-89-6 | E420 | 0.01 | mg/L | 1 mg/L | 107 | 80.0 | 120 | --- |
| Lead, total | 7439-92-1 | E420 | 0.00005 | mg/L | 0.5 mg/L | 102 | 80.0 | 120 | --- |
| Lithium, total | 7439-93-2 | E420 | 0.001 | mg/L | 0.25 mg/L | 104 | 80.0 | 120 | --- |
| Magnesium, total | 7439-95-4 | E420 | 0.005 | mg/L | 50 mg/L | 105 | 80.0 | 120 | --- |
| Manganese, total | 7439-96-5 | E420 | 0.0001 | mg/L | 0.25 mg/L | 104 | 80.0 | 120 | --- |
| Molybdenum, total | 7439-98-7 | E420 | 0.00005 | mg/L | 0.25 mg/L | 101 | 80.0 | 120 | --- |
| Nickel, total | 7440-02-0 | E420 | 0.0005 | mg/L | 0.5 mg/L | 101 | 80.0 | 120 | --- |
| Phosphorus, total | 7723-14-0 | E420 | 0.05 | mg/L | 10 mg/L | 111 | 80.0 | 120 | --- |
| Potassium, total | 7440-09-7 | E420 | 0.05 | mg/L | 50 mg/L | 104 | 80.0 | 120 | --- |
| Rubidium, total | 7440-17-7 | E420 | 0.0002 | mg/L | 0.1 mg/L | 102 | 80.0 | 120 | --- |
| Selenium, total | 7782-49-2 | E420 | 0.00005 | mg/L | 1 mg/L | 101 | 80.0 | 120 | --- |
| Silicon, total | 7440-21-3 | E420 | 0.1 | mg/L | 10 mg/L | 106 | 80.0 | 120 | --- |
| Silver, total | 7440-22-4 | E420 | 0.00001 | mg/L | 0.1 mg/L | 94.4 | 80.0 | 120 | --- |
| Sodium, total | 7440-23-5 | E420 | 0.05 | mg/L | 50 mg/L | 103 | 80.0 | 120 | --- |
| Strontium, total | 7440-24-6 | E420 | 0.0002 | mg/L | 0.25 mg/L | 99.0 | 80.0 | 120 | --- |
| Sulfur, total | 7704-34-9 | E420 | 0.5 | mg/L | 50 mg/L | 95.1 | 80.0 | 120 | --- |
| Tellurium, total | 13494-80-9 | E420 | 0.0002 | mg/L | 0.1 mg/L | 99.5 | 80.0 | 120 | --- |
| Thallium, total | 7440-28-0 | E420 | 0.00001 | mg/L | 1 mg/L | 101 | 80.0 | 120 | --- |
| Thorium, total | 7440-29-1 | E420 | 0.0001 | mg/L | 0.1 mg/L | 103 | 80.0 | 120 | --- |
| Tin, total | 7440-31-5 | E420 | 0.0001 | mg/L | 0.5 mg/L | 103 | 80.0 | 120 | --- |
| Titanium, total | 7440-32-6 | E420 | 0.0003 | mg/L | 0.25 mg/L | 98.9 | 80.0 | 120 | --- |
| Tungsten, total | 7440-33-7 | E420 | 0.0001 | mg/L | 0.1 mg/L | 106 | 80.0 | 120 | --- |
| Uranium, total | 7440-61-1 | E420 | 0.00001 | mg/L | 0.005 mg/L | 107 | 80.0 | 120 | --- |



| Sub-Matrix: Water | | | | | Laboratory Control Sample (LCS) Report | | | | |
|---|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
| | | | | | Spike | Recovery (%) | Recovery Limits (%) | | |
| Analyte | CAS Number | Method | LOR | Unit | Target Concentration | LCS | Low | High | Qualifier |
| Total Metals (QC Lot: 1446230) - continued | | | | | | | | | |
| Vanadium, total | 7440-62-2 | E420 | 0.0005 | mg/L | 0.5 mg/L | 103 | 80.0 | 120 | --- |
| Zinc, total | 7440-66-6 | E420 | 0.003 | mg/L | 0.5 mg/L | 102 | 80.0 | 120 | --- |
| Zirconium, total | 7440-67-7 | E420 | 0.0002 | mg/L | 0.1 mg/L | 100.0 | 80.0 | 120 | --- |
| Total Metals (QC Lot: 1449472) | | | | | | | | | |
| Mercury, total | 7439-97-6 | E508 | 0.000005 | mg/L | 0 mg/L | 92.0 | 80.0 | 120 | --- |
| Dissolved Metals (QC Lot: 1446224) | | | | | | | | | |
| Aluminum, dissolved | 7429-90-5 | E421 | 0.001 | mg/L | 2 mg/L | 104 | 80.0 | 120 | --- |
| Antimony, dissolved | 7440-36-0 | E421 | 0.0001 | mg/L | 1 mg/L | 107 | 80.0 | 120 | --- |
| Arsenic, dissolved | 7440-38-2 | E421 | 0.0001 | mg/L | 1 mg/L | 108 | 80.0 | 120 | --- |
| Barium, dissolved | 7440-39-3 | E421 | 0.0001 | mg/L | 0.25 mg/L | 110 | 80.0 | 120 | --- |
| Beryllium, dissolved | 7440-41-7 | E421 | 0.00002 | mg/L | 0.1 mg/L | 99.1 | 80.0 | 120 | --- |
| Bismuth, dissolved | 7440-69-9 | E421 | 0.00005 | mg/L | 1 mg/L | 104 | 80.0 | 120 | --- |
| Boron, dissolved | 7440-42-8 | E421 | 0.01 | mg/L | 1 mg/L | 98.8 | 80.0 | 120 | --- |
| Cadmium, dissolved | 7440-43-9 | E421 | 0.000005 | mg/L | 0.1 mg/L | 103 | 80.0 | 120 | --- |
| Calcium, dissolved | 7440-70-2 | E421 | 0.05 | mg/L | 50 mg/L | 103 | 80.0 | 120 | --- |
| Cesium, dissolved | 7440-46-2 | E421 | 0.00001 | mg/L | 0.05 mg/L | 105 | 80.0 | 120 | --- |
| Chromium, dissolved | 7440-47-3 | E421 | 0.0005 | mg/L | 0.25 mg/L | 107 | 80.0 | 120 | --- |
| Cobalt, dissolved | 7440-48-4 | E421 | 0.0001 | mg/L | 0.25 mg/L | 107 | 80.0 | 120 | --- |
| Copper, dissolved | 7440-50-8 | E421 | 0.0002 | mg/L | 0.25 mg/L | 104 | 80.0 | 120 | --- |
| Iron, dissolved | 7439-89-6 | E421 | 0.01 | mg/L | 1 mg/L | 106 | 80.0 | 120 | --- |
| Lead, dissolved | 7439-92-1 | E421 | 0.00005 | mg/L | 0.5 mg/L | 103 | 80.0 | 120 | --- |
| Lithium, dissolved | 7439-93-2 | E421 | 0.001 | mg/L | 0.25 mg/L | 99.6 | 80.0 | 120 | --- |
| Magnesium, dissolved | 7439-95-4 | E421 | 0.005 | mg/L | 50 mg/L | 102 | 80.0 | 120 | --- |
| Manganese, dissolved | 7439-96-5 | E421 | 0.0001 | mg/L | 0.25 mg/L | 103 | 80.0 | 120 | --- |
| Molybdenum, dissolved | 7439-98-7 | E421 | 0.00005 | mg/L | 0.25 mg/L | 111 | 80.0 | 120 | --- |
| Nickel, dissolved | 7440-02-0 | E421 | 0.0005 | mg/L | 0.5 mg/L | 106 | 80.0 | 120 | --- |
| Phosphorus, dissolved | 7723-14-0 | E421 | 0.05 | mg/L | 10 mg/L | 103 | 80.0 | 120 | --- |
| Potassium, dissolved | 7440-09-7 | E421 | 0.05 | mg/L | 50 mg/L | 115 | 80.0 | 120 | --- |
| Rubidium, dissolved | 7440-17-7 | E421 | 0.0002 | mg/L | 0.1 mg/L | 106 | 80.0 | 120 | --- |
| Selenium, dissolved | 7782-49-2 | E421 | 0.00005 | mg/L | 1 mg/L | 107 | 80.0 | 120 | --- |
| Silicon, dissolved | 7440-21-3 | E421 | 0.05 | mg/L | 10 mg/L | 111 | 80.0 | 120 | --- |
| Silver, dissolved | 7440-22-4 | E421 | 0.00001 | mg/L | 0.1 mg/L | 97.1 | 80.0 | 120 | --- |
| Sodium, dissolved | 7440-23-5 | E421 | 0.05 | mg/L | 50 mg/L | 106 | 80.0 | 120 | --- |
| Strontium, dissolved | 7440-24-6 | E421 | 0.0002 | mg/L | 0.25 mg/L | 108 | 80.0 | 120 | --- |
| Sulfur, dissolved | 7704-34-9 | E421 | 0.5 | mg/L | 50 mg/L | 104 | 80.0 | 120 | --- |

| Sub-Matrix: Water | | | | | Laboratory Control Sample (LCS) Report | | | | | |
|---|------------|--------|----------|------|--|--------------|---------------------|------|-----------|--|
| | | | | | Spike | Recovery (%) | Recovery Limits (%) | | | |
| Analyte | CAS Number | Method | LOR | Unit | Target Concentration | LCS | Low | High | Qualifier | |
| Dissolved Metals (QC Lot: 1446224) - continued | | | | | | | | | | |
| Tellurium, dissolved | 13494-80-9 | E421 | 0.0002 | mg/L | 0.1 mg/L | 105 | 80.0 | 120 | ---- | |
| Thallium, dissolved | 7440-28-0 | E421 | 0.00001 | mg/L | 1 mg/L | 100 | 80.0 | 120 | ---- | |
| Thorium, dissolved | 7440-29-1 | E421 | 0.0001 | mg/L | 0.1 mg/L | 103 | 80.0 | 120 | ---- | |
| Tin, dissolved | 7440-31-5 | E421 | 0.0001 | mg/L | 0.5 mg/L | 105 | 80.0 | 120 | ---- | |
| Titanium, dissolved | 7440-32-6 | E421 | 0.0003 | mg/L | 0.25 mg/L | 96.8 | 80.0 | 120 | ---- | |
| Tungsten, dissolved | 7440-33-7 | E421 | 0.0001 | mg/L | 0.1 mg/L | 102 | 80.0 | 120 | ---- | |
| Uranium, dissolved | 7440-61-1 | E421 | 0.00001 | mg/L | 0.005 mg/L | 104 | 80.0 | 120 | ---- | |
| Vanadium, dissolved | 7440-62-2 | E421 | 0.0005 | mg/L | 0.5 mg/L | 108 | 80.0 | 120 | ---- | |
| Zinc, dissolved | 7440-66-6 | E421 | 0.001 | mg/L | 0.5 mg/L | 106 | 80.0 | 120 | ---- | |
| Zirconium, dissolved | 7440-67-7 | E421 | 0.0002 | mg/L | 0.1 mg/L | 105 | 80.0 | 120 | ---- | |
| Mercury, dissolved | 7439-97-6 | E509 | 0.000005 | mg/L | 0 mg/L | 89.5 | 80.0 | 120 | ---- | |
| Speciated Metals (QC Lot: 1449383) | | | | | | | | | | |
| Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532 | 0.0005 | mg/L | 0.25 mg/L | 104 | 80.0 | 120 | ---- | |



Matrix Spike (MS) Report

A Matrix Spike (MS) is a randomly selected intra-laboratory replicate sample that has been fortified (spiked) with test analytes at known concentration, and processed in an identical manner to test samples. Matrix Spikes provide information regarding analyte recovery and potential matrix effects. MS DQO exceedances due to sample matrix may sometimes be unavoidable; in such cases, test results for the associated sample (or similar samples) may be subject to bias. ND – Recovery not determined, background level >= 1x spike level.

Sub-Matrix: Water

| Matrix Spike (MS) Report | | | | | | | | | | |
|---|------------------|---------------------------------|------------|------------|---------------|------------|--------------|---------------------|------|-----------|
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Spike | | Recovery (%) | Recovery Limits (%) | | Qualifier |
| | | | | | Concentration | Target | MS | Low | High | |
| Anions and Nutrients (QC Lot: 1447231) | | | | | | | | | | |
| VA24B0732-002 | Anonymous | Fluoride | 16984-48-8 | E235.F | 1.02 mg/L | 1 mg/L | 102 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1447232) | | | | | | | | | | |
| VA24B0732-002 | Anonymous | Chloride | 16887-00-6 | E235.Cl | 105 mg/L | 100 mg/L | 105 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1447233) | | | | | | | | | | |
| VA24B0732-002 | Anonymous | Bromide | 24959-67-9 | E235.Br-L | 0.529 mg/L | 0.5 mg/L | 106 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1447234) | | | | | | | | | | |
| VA24B0732-002 | Anonymous | Nitrate (as N) | 14797-55-8 | E235.NO3-L | 2.76 mg/L | 2.5 mg/L | 110 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1447235) | | | | | | | | | | |
| VA24B0732-002 | Anonymous | Nitrite (as N) | 14797-65-0 | E235.NO2-L | 2.37 mg/L | 2.5 mg/L | 95.0 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1447236) | | | | | | | | | | |
| VA24B0732-002 | Anonymous | Sulfate (as SO4) | 14808-79-8 | E235.SO4 | 103 mg/L | 100 mg/L | 103 | 75.0 | 125 | --- |
| Anions and Nutrients (QC Lot: 1456647) | | | | | | | | | | |
| VA24B0800-001 | Anonymous | Phosphorus, total | 7723-14-0 | E372-U | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| Anions and Nutrients (QC Lot: 1456649) | | | | | | | | | | |
| KS2401733-001 | Anonymous | Nitrogen, total | 7727-37-9 | E366 | 19.2 mg/L | 20 mg/L | 96.1 | 70.0 | 130 | --- |
| Anions and Nutrients (QC Lot: 1456650) | | | | | | | | | | |
| VA24B0726-001 | Anonymous | Ammonia, total (as N) | 7664-41-7 | E298 | ND mg/L | ---- | ND | 75.0 | 125 | --- |
| Organic / Inorganic Carbon (QC Lot: 1456646) | | | | | | | | | | |
| VA24B0726-002 | Anonymous | Carbon, dissolved organic [DOC] | ---- | E358-L | 10.5 mg/L | 10 mg/L | 105 | 70.0 | 130 | --- |
| Total Sulfides (QC Lot: 1452891) | | | | | | | | | | |
| CG2406452-001 | Anonymous | Sulfide, total (as S) | 18496-25-8 | E395 | 0.214 mg/L | 0.2 mg/L | 107 | 75.0 | 125 | --- |
| Total Metals (QC Lot: 1446230) | | | | | | | | | | |
| VA24B0906-002 | Anonymous | Aluminum, total | 7429-90-5 | E420 | 0.199 mg/L | 0.2 mg/L | 99.5 | 70.0 | 130 | --- |
| | | Antimony, total | 7440-36-0 | E420 | 0.0194 mg/L | 0.02 mg/L | 97.1 | 70.0 | 130 | --- |
| | | Arsenic, total | 7440-38-2 | E420 | 0.0200 mg/L | 0.02 mg/L | 99.9 | 70.0 | 130 | --- |
| | | Barium, total | 7440-39-3 | E420 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Beryllium, total | 7440-41-7 | E420 | 0.0390 mg/L | 0.04 mg/L | 97.4 | 70.0 | 130 | --- |
| | | Bismuth, total | 7440-69-9 | E420 | 0.00951 mg/L | 0.01 mg/L | 95.1 | 70.0 | 130 | --- |
| | | Boron, total | 7440-42-8 | E420 | 0.091 mg/L | 0.1 mg/L | 90.7 | 70.0 | 130 | --- |
| | | Cadmium, total | 7440-43-9 | E420 | 0.00387 mg/L | 0.004 mg/L | 96.8 | 70.0 | 130 | --- |
| | | Calcium, total | 7440-70-2 | E420 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Cesium, total | 7440-46-2 | E420 | 0.0100 mg/L | 0.01 mg/L | 100 | 70.0 | 130 | --- |
| | | Chromium, total | 7440-47-3 | E420 | 0.0388 mg/L | 0.04 mg/L | 97.1 | 70.0 | 130 | --- |



Sub-Matrix: Water

| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Matrix Spike (MS) Report | | | | | | Qualifier | |
|---|------------------|----------------------|------------|--------|--------------------------|------------|--------------|---------------------|-----|------|-----------|--|
| | | | | | Spike | | Recovery (%) | Recovery Limits (%) | | | | |
| | | | | | Concentration | Target | | MS | Low | High | | |
| Total Metals (QC Lot: 1446230) - continued | | | | | | | | | | | | |
| VA24B0906-002 | Anonymous | Cobalt, total | 7440-48-4 | E420 | 0.0193 mg/L | 0.02 mg/L | 96.5 | 70.0 | 130 | --- | --- | |
| | | Copper, total | 7440-50-8 | E420 | 0.0186 mg/L | 0.02 mg/L | 92.8 | 70.0 | 130 | --- | --- | |
| | | Iron, total | 7439-89-6 | E420 | 1.96 mg/L | 2 mg/L | 97.8 | 70.0 | 130 | --- | --- | |
| | | Lead, total | 7439-92-1 | E420 | 0.0190 mg/L | 0.02 mg/L | 95.1 | 70.0 | 130 | --- | --- | |
| | | Lithium, total | 7439-93-2 | E420 | 0.0955 mg/L | 0.1 mg/L | 95.5 | 70.0 | 130 | --- | --- | |
| | | Magnesium, total | 7439-95-4 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Manganese, total | 7439-96-5 | E420 | 0.0193 mg/L | 0.02 mg/L | 96.7 | 70.0 | 130 | --- | --- | |
| | | Molybdenum, total | 7439-98-7 | E420 | 0.0198 mg/L | 0.02 mg/L | 98.8 | 70.0 | 130 | --- | --- | |
| | | Nickel, total | 7440-02-0 | E420 | 0.0375 mg/L | 0.04 mg/L | 93.8 | 70.0 | 130 | --- | --- | |
| | | Phosphorus, total | 7723-14-0 | E420 | 9.72 mg/L | 10 mg/L | 97.2 | 70.0 | 130 | --- | --- | |
| | | Potassium, total | 7440-09-7 | E420 | 3.79 mg/L | 4 mg/L | 94.7 | 70.0 | 130 | --- | --- | |
| | | Rubidium, total | 7440-17-7 | E420 | 0.0186 mg/L | 0.02 mg/L | 93.1 | 70.0 | 130 | --- | --- | |
| | | Selenium, total | 7782-49-2 | E420 | 0.0383 mg/L | 0.04 mg/L | 95.8 | 70.0 | 130 | --- | --- | |
| | | Silicon, total | 7440-21-3 | E420 | 9.46 mg/L | 10 mg/L | 94.6 | 70.0 | 130 | --- | --- | |
| | | Silver, total | 7440-22-4 | E420 | 0.00386 mg/L | 0.004 mg/L | 96.4 | 70.0 | 130 | --- | --- | |
| | | Sodium, total | 7440-23-5 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Strontium, total | 7440-24-6 | E420 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Sulfur, total | 7704-34-9 | E420 | 19.1 mg/L | 20 mg/L | 95.6 | 70.0 | 130 | --- | --- | |
| | | Tellurium, total | 13494-80-9 | E420 | 0.0383 mg/L | 0.04 mg/L | 95.8 | 70.0 | 130 | --- | --- | |
| | | Thallium, total | 7440-28-0 | E420 | 0.00385 mg/L | 0.004 mg/L | 96.2 | 70.0 | 130 | --- | --- | |
| | | Thorium, total | 7440-29-1 | E420 | 0.0187 mg/L | 0.02 mg/L | 93.7 | 70.0 | 130 | --- | --- | |
| | | Tin, total | 7440-31-5 | E420 | 0.0197 mg/L | 0.02 mg/L | 98.5 | 70.0 | 130 | --- | --- | |
| | | Titanium, total | 7440-32-6 | E420 | 0.0389 mg/L | 0.04 mg/L | 97.3 | 70.0 | 130 | --- | --- | |
| | | Tungsten, total | 7440-33-7 | E420 | 0.0198 mg/L | 0.02 mg/L | 98.9 | 70.0 | 130 | --- | --- | |
| | | Uranium, total | 7440-61-1 | E420 | 0.00395 mg/L | 0.004 mg/L | 98.8 | 70.0 | 130 | --- | --- | |
| | | Vanadium, total | 7440-62-2 | E420 | 0.0977 mg/L | 0.1 mg/L | 97.7 | 70.0 | 130 | --- | --- | |
| | | Zinc, total | 7440-66-6 | E420 | 0.374 mg/L | 0.4 mg/L | 93.4 | 70.0 | 130 | --- | --- | |
| | | Zirconium, total | 7440-67-7 | E420 | 0.0381 mg/L | 0.04 mg/L | 95.2 | 70.0 | 130 | --- | --- | |
| Total Metals (QC Lot: 1449472) | | | | | | | | | | | | |
| VA24B0878-002 | Anonymous | Mercury, total | 7439-97-6 | E508 | 0.0000912 mg/L | 0 mg/L | 91.2 | 70.0 | 130 | --- | --- | |
| Dissolved Metals (QC Lot: 1446224) | | | | | | | | | | | | |
| VA24B0906-002 | Anonymous | Aluminum, dissolved | 7429-90-5 | E421 | 0.185 mg/L | 0.2 mg/L | 92.6 | 70.0 | 130 | --- | --- | |
| | | Antimony, dissolved | 7440-36-0 | E421 | 0.0194 mg/L | 0.02 mg/L | 96.8 | 70.0 | 130 | --- | --- | |
| | | Arsenic, dissolved | 7440-38-2 | E421 | 0.0203 mg/L | 0.02 mg/L | 101 | 70.0 | 130 | --- | --- | |
| | | Barium, dissolved | 7440-39-3 | E421 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Beryllium, dissolved | 7440-41-7 | E421 | 0.0381 mg/L | 0.04 mg/L | 95.2 | 70.0 | 130 | --- | --- | |
| | | Bismuth, dissolved | 7440-69-9 | E421 | 0.00888 mg/L | 0.01 mg/L | 88.8 | 70.0 | 130 | --- | --- | |
| | | Boron, dissolved | 7440-42-8 | E421 | 0.091 mg/L | 0.1 mg/L | 90.8 | 70.0 | 130 | --- | --- | |
| | | Cadmium, dissolved | 7440-43-9 | E421 | 0.00374 mg/L | 0.004 mg/L | 93.4 | 70.0 | 130 | --- | --- | |
| | | Calcium, dissolved | 7440-70-2 | E421 | ND mg/L | --- | ND | 70.0 | 130 | --- | --- | |
| | | Cesium, dissolved | 7440-46-2 | E421 | 0.00979 mg/L | 0.01 mg/L | 97.9 | 70.0 | 130 | --- | --- | |
| | | Chromium, dissolved | 7440-47-3 | E421 | 0.0377 mg/L | 0.04 mg/L | 94.2 | 70.0 | 130 | --- | --- | |
| | | Cobalt, dissolved | 7440-48-4 | E421 | 0.0189 mg/L | 0.02 mg/L | 94.5 | 70.0 | 130 | --- | --- | |



Sub-Matrix: Water

| | | | | | Matrix Spike (MS) Report | | | | | |
|--|------------------|-------------------------------------|------------|--------|--------------------------|------------|--------------|---------------------|------|-----------|
| | | | | | Spike | | Recovery (%) | Recovery Limits (%) | | |
| Laboratory sample ID | Client sample ID | Analyte | CAS Number | Method | Concentration | Target | MS | Low | High | Qualifier |
| Dissolved Metals (QCLot: 1446224) - continued | | | | | | | | | | |
| VA24B0906-002 | Anonymous | Copper, dissolved | 7440-50-8 | E421 | 0.0182 mg/L | 0.02 mg/L | 91.0 | 70.0 | 130 | --- |
| | | Iron, dissolved | 7439-89-6 | E421 | 1.83 mg/L | 2 mg/L | 91.6 | 70.0 | 130 | --- |
| | | Lead, dissolved | 7439-92-1 | E421 | 0.0184 mg/L | 0.02 mg/L | 91.9 | 70.0 | 130 | --- |
| | | Lithium, dissolved | 7439-93-2 | E421 | 0.0980 mg/L | 0.1 mg/L | 98.0 | 70.0 | 130 | --- |
| | | Magnesium, dissolved | 7439-95-4 | E421 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Manganese, dissolved | 7439-96-5 | E421 | 0.0191 mg/L | 0.02 mg/L | 95.5 | 70.0 | 130 | --- |
| | | Molybdenum, dissolved | 7439-98-7 | E421 | 0.0203 mg/L | 0.02 mg/L | 102 | 70.0 | 130 | --- |
| | | Nickel, dissolved | 7440-02-0 | E421 | 0.0366 mg/L | 0.04 mg/L | 91.6 | 70.0 | 130 | --- |
| | | Phosphorus, dissolved | 7723-14-0 | E421 | 10.6 mg/L | 10 mg/L | 106 | 70.0 | 130 | --- |
| | | Potassium, dissolved | 7440-09-7 | E421 | 3.98 mg/L | 4 mg/L | 99.4 | 70.0 | 130 | --- |
| | | Rubidium, dissolved | 7440-17-7 | E421 | 0.0190 mg/L | 0.02 mg/L | 94.8 | 70.0 | 130 | --- |
| | | Selenium, dissolved | 7782-49-2 | E421 | 0.0420 mg/L | 0.04 mg/L | 105 | 70.0 | 130 | --- |
| | | Silicon, dissolved | 7440-21-3 | E421 | 9.36 mg/L | 10 mg/L | 93.6 | 70.0 | 130 | --- |
| | | Silver, dissolved | 7440-22-4 | E421 | 0.00376 mg/L | 0.004 mg/L | 94.0 | 70.0 | 130 | --- |
| | | Sodium, dissolved | 7440-23-5 | E421 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Strontium, dissolved | 7440-24-6 | E421 | ND mg/L | ---- | ND | 70.0 | 130 | --- |
| | | Sulfur, dissolved | 7704-34-9 | E421 | 19.4 mg/L | 20 mg/L | 97.2 | 70.0 | 130 | --- |
| | | Tellurium, dissolved | 13494-80-9 | E421 | 0.0413 mg/L | 0.04 mg/L | 103 | 70.0 | 130 | --- |
| | | Thallium, dissolved | 7440-28-0 | E421 | 0.00358 mg/L | 0.004 mg/L | 89.6 | 70.0 | 130 | --- |
| | | Thorium, dissolved | 7440-29-1 | E421 | 0.0194 mg/L | 0.02 mg/L | 97.2 | 70.0 | 130 | --- |
| | | Tin, dissolved | 7440-31-5 | E421 | 0.0187 mg/L | 0.02 mg/L | 93.7 | 70.0 | 130 | --- |
| | | Titanium, dissolved | 7440-32-6 | E421 | 0.0362 mg/L | 0.04 mg/L | 90.6 | 70.0 | 130 | --- |
| | | Tungsten, dissolved | 7440-33-7 | E421 | 0.0187 mg/L | 0.02 mg/L | 93.5 | 70.0 | 130 | --- |
| | | Uranium, dissolved | 7440-61-1 | E421 | 0.00371 mg/L | 0.004 mg/L | 92.7 | 70.0 | 130 | --- |
| | | Vanadium, dissolved | 7440-62-2 | E421 | 0.0973 mg/L | 0.1 mg/L | 97.3 | 70.0 | 130 | --- |
| | | Zinc, dissolved | 7440-66-6 | E421 | 0.380 mg/L | 0.4 mg/L | 94.9 | 70.0 | 130 | --- |
| | | Zirconium, dissolved | 7440-67-7 | E421 | 0.0394 mg/L | 0.04 mg/L | 98.6 | 70.0 | 130 | --- |
| Dissolved Metals (QCLot: 1449433) | | | | | | | | | | |
| VA24B0844-005 | Anonymous | Mercury, dissolved | 7439-97-6 | E509 | 0.0000866 mg/L | 0 mg/L | 86.6 | 70.0 | 130 | --- |
| Speciated Metals (QCLot: 1449383) | | | | | | | | | | |
| VA24B0899-002 | WLNG US1 | Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532 | 0.261 mg/L | 0.25 mg/L | 104 | 70.0 | 130 | --- |



Environmental
www.alsglobal.com

**Chain of Custody (COC) / Analytical
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COC Number: 17 -

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Page 1 of

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--------------------------|---|--|---|--|--------------------------|-----|---|---|--|---|------|--------------|------------------|---|----------------------|--|--|--|--|--|
| Report To | | Contact and company name below will appear on the final report | | Report Format / Distribution | | Select Service Level Below - Contact your AM to confirm all E&P TATs (surcharges may apply) | | | | | | | | | | | | | | | | | |
| Company: | Triton Environmental | Select Report Format: | <input type="checkbox"/> | <input checked="" type="checkbox"/> EXCEL | <input type="checkbox"/> EDD (DIGITAL) | PRIORITY (Business Day) | Regular [R] <input checked="" type="checkbox"/> Standard TAT if received by 3 pm - business days - no surcharges apply | | | 1 Business day [E1 - 100%] | | | | | | | | | | | | | |
| Contact: | | Quality Control (QC) Report with Report | | <input type="checkbox"/> YES | <input type="checkbox"/> NO | | 4 day [P4-20%] <input type="checkbox"/> | | | 3 day [P3-25%] <input type="checkbox"/> | | | 2 day [P2-50%] <input type="checkbox"/> | | | EMERGENCY | Same Day, Weekend or Statutory holiday [E2 - 200% (Laboratory opening fees may apply)] <input type="checkbox"/> | | | | | | |
| Phone: | | in the final report | | Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX | | Date and Time Required for all E&P TATs: | dd-mm-yy hh:mm | | | For tests that can not be performed according to the service level selected, you will be contacted. | | | | | | | | | | | | | |
| Street: | | Email 1 or Fax | Email 2 | Email 3 | | | | | | | | | | | | | | | | | | | |
| City/Province: | | Analysis Request | | | | | | | | | | | | | | | | | | | | | |
| Postal Code: | | | | | | | | | | | | | | | | | | | | | | | |
| Invoice To | Same as Report To <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | Invoice Distribution | | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below | | | | | | | | | | | | | | | | | | | |
| | Copy of Invoice with Report <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | Select Invoice Distribution: <input type="checkbox"/> EMAIL <input checked="" type="checkbox"/> MAIL <input checked="" type="checkbox"/> FAX | F | | | P | P | | F/P | | F | | | | | | | | | | | | |
| Company: | | Email 1 or Fax | | | | | | | | | | | | | | | | | | | | | |
| Contact: | | Email 2 | | | | | | | | | | | | | | | | | | | | | |
| Project Information | | Oil and Gas Required Fields (client use) | | | | | | | | | | | | | | | | | | | | | |
| ALS Account # / Quote #: | VA23-TRIT100-068 01A | AFE/Cost Center: | PO# | | Total metals + mercury | Dissolved metals + mercury | Total hexavalent chromium | Total trivalent chromium | TSS | TDS | Nutrients (ammonia, ammonium, total nitrogen, total phosphorus) | Total sulfide (as H ₂ S), Unionized Sulfide | General parameters (alkalinity) | DOC | Total Metals | Dissolved Metals | SAMPLES ON HOLD | NUMBER OF CONTAINERS | | | | | |
| Job #: | 11964 | Major/Minor Code: | Routing Code: | | | | | | R | R | R | R | R | Low | Low | High | High | | | | | | |
| PO / AFE: | 11964 - Task 20 - Phase 3C-4C | Requisitioner: | Location: | | | | | | R | R | R | R | R | High | High | High | High | | | | | | |
| LSD: | | ALS Contact: | Sampler: | | | | | | R | R | R | R | R | High | High | High | High | | | | | | |
| ALS Lab Work Order #: (lab use only): | 399 | | | | | | | | R | R | R | R | R | High | High | High | High | | | | | | |
| ALS Sample # (lab use only) | Sample Identification and/or Coordinates (This description will appear on the report) | Date (dd-mm-yy) | Time (hh:mm) | Sample Type | Total metals + mercury | Dissolved metals + mercury | Total hexavalent chromium | Total trivalent chromium | TSS | TDS | Nutrients (ammonia, ammonium, total nitrogen, total phosphorus) | Total sulfide (as H ₂ S), Unionized Sulfide | General parameters (alkalinity) | DOC | Total Metals | Dissolved Metals | SAMPLES ON HOLD | NUMBER OF CONTAINERS | | | | | |
| | WLNG DS 1 | May 15, 2024 | 08:45 | Water | R | R | R | R | R | R | R | R | R | Low | Low | High | High | | | | | | |
| | pH: 7.04 cond: 27 mS/cm temp: 11.0 °C | | | | | | | | | | | | | | | | N 9 | | | | | | |
| | WLNG US 1 | May 15, 2024 | 08:12 | Water | R | R | R | R | R | R | R | R | R | Low | Low | High | High | | | | | | |
| | pH: 6.96 cond: 23 mS/cm temp: 10.5 °C | | | | | | | | | | | | | | | | N 9 | | | | | | |
| | Duplicate N/A | | | | | | | | | | | | | | | | N 9 | | | | | | |
| | Field Blank N/A | | | | | | | | | | | | | | | | N 0 | | | | | | |
| | Trip Blank N/A | | | | | | | | | | | | | | | | N 0 | | | | | | |
| | Quarry WS WL 318-P2 | May 15, 2024 | 09:50 | Water | R | R | R | R | R | R | R | R | R | Low | Low | High | High | | | | | | |
| | pH: 6.63 cond: 15 mS/cm temp: 9.7 °C | | | | | | | | | | | | | | | | N 2 | | | | | | |
| | Quarry DS Sump | May 15, 2024 | 10:04 | Water | R | R | R | R | R | R | R | R | R | Low | Low | High | High | | | | | | |
| | pH: 7.13 cond: 124 mS/cm temp: 12.1 °C | | | | | | | | | | | | | | | | N 2 | | | | | | |
| Drinking Water (DW) Samples ¹ (client use) | | Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below (electronic COC only) | | | | | | | | | | | | | | | | | | | | | |
| Are samples taken from a Regulated DW System? | | <input type="checkbox"/> NO <input checked="" type="checkbox"/> Yes | | | | | | | | | | | | | | | | | | | | | |
| Are samples for human consumption/ use? | | Triton project # 11964 | | | | | | | | | | | | | | | | | | | | | |
| SHIPMENT RELEASE (client use) | | INITIAL SHIPMENT RECEIPT (lab use only) | | FINAL SHIPMENT RECEIPT (lab use only) | | | | | | | | | | | | | | | | | | | |
| Time: | Received by: | Date: | Time: | Received by: | Date: | | | | | | | | | | | | | | | | | | |
| May 15, 2024 | 17:00 | | | Q | May 15 | | | | | | | | | | | | | | | | | | |

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

SEPT 20 FRONT

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

| | | |
|---|--|---|
|  FORTIS BC™ | Eagle Mountain - Woodfibre Gas Pipeline Project | May 13th to May 19th, 2024 |
| | Report # | 8 |
| | Appendix D | D-4 |

Woodfibre Site Receiving Environment Field Notes and Logs

| | | | | |
|----------------------------|---------------|----------------------------|---|------------|
| Project Component: | Tunnel | Site Name: | Receiving Environment - Upstream of Discharge | |
| Inspection Date: | 05/15/2024 | Location: | WLNG | |
| Triton QP: | Sam Blanchard | Latitude/Longitude: | 49.669455 | -123.25087 |
| Temperature(c): | Low 14 | High 23 | Permit: PE 110136 | |
| Weather Conditions: | Clear | Ground Conditions: | Dry | |

Observations

Time: 08:12:00 Flow Volume (visual): moderate

Notes:

Odour Detected?: No Notes:

Unusual Colour? No Notes:

Unusual Observations? No Notes:

Sheen on Water? No Notes:

Samples Collected - Parameters

| | | | | |
|----------------------------|-----|----------------------------------|-----|----------------|
| Total Metals + Mercury | Yes | General Parameters (Alkalinity) | Yes | Other Sample: |
| Dissolved Metals + Mercury | Yes | Total Sulfide, Unionized Sulfide | Yes | |
| TSS | Yes | Anions | Yes | |
| TDS | Yes | VOC/VPH | N/A | QA Samples: No |
| Nutrients | Yes | EPH, PAH, LEPH/HEPH | N/A | |
| DOC | Yes | Trout LC50 | N/A | |

Logger Maintenance

| | | | |
|-------------------------------|----|----------------------------------|-----|
| Logger Maintenance Performed? | No | Photo of COC with Lab Signature? | Yes |
|-------------------------------|----|----------------------------------|-----|

Describe Logger Maintenance

Photos



Photo: 1
Location: EAS US1
Description: US View



Photo: 2
Location: EAS US1
Description: DS View

Photos



Photo: 3

Location: EAS US1

Description: Across View

Photo: 4

Location: EAS US1

Description:

Sign Off

Report Prepared By: Sam Blanchard

Report Reviewer:

Name:

Designation:

Designation Number:

Report Reviewed:

Professional(s) of Record:

| | | | | |
|----------------------------|---------------|----------------------------|---|-------------|
| Project Component: | Tunnel | Site Name: | Receiving Environment - Downstream of Discharge | |
| Inspection Date: | 05/15/2024 | Location: | WLNG | |
| Triton QP: | Sam Blanchard | Latitude/Longitude: | 49.6683 | -123.247958 |
| Temperature(c): | Low 14 | High 23 | Permit: PE 110136 | |
| Weather Conditions: | Clear | Ground Conditions: | Dry | |

Observations

Time: 08:45:00 Flow Volume (visual): moderate

Notes:

Odour Detected?: No Notes:

Unusual Colour? No Notes:

Unusual Observations? No Notes:

Sheen on Water? No Notes:

Samples Collected - Parameters

| | | | | |
|----------------------------|-----|----------------------------------|-----|----------------|
| Total Metals + Mercury | Yes | General Parameters (Alkalinity) | Yes | Other Sample: |
| Dissolved Metals + Mercury | Yes | Total Sulfide, Unionized Sulfide | Yes | |
| TSS | Yes | Anions | Yes | |
| TDS | Yes | VOC/VPH | N/A | QA Samples: No |
| Nutrients | Yes | EPH, PAH, LEPH/HEPH | N/A | |
| DOC | Yes | Trout LC50 | N/A | |

Logger Maintenance

| | | | |
|-------------------------------|-----|----------------------------------|-----|
| Logger Maintenance Performed? | Yes | Photo of COC with Lab Signature? | Yes |
|-------------------------------|-----|----------------------------------|-----|

Describe Logger Maintenance

Moved logger to slightly deeper water in the same general area.

Photos



Photo: 1
Location: EAS DS1
Description: US View



Photo: 2
Location: EAS DS1
Description: DS View

Photos



Photo: 3
Location: EAS DS1
Description: Across View

| Chain of Custody (COC) / Analytical Request Form | | Affix ALS barcode label here (do not cut) | | COC Number: 17 - | |
|---|--|--|--|--|--|
| Report To Company: Fortis Environmental Address: 1000 - 1111 West Georgia Street Phone: 604-565-5213 Fax: 604-565-5213 Street: 1111 West Georgia Street City/Prov: Vancouver, BC Postal Code: V6E 4M3 Invoice To Company: Contact Contact: Project Information ALS Account # / Quote # VAD3-TRIT100-000-512 Job #: 11964 PO/AFE: 11964 - Take 20 - Phase 3C-4C Requisitioner: LSD: ALS Lab Work Order # (lab use only): | | Report Format / Distribution Select Report Type: <input type="checkbox"/> PDF <input type="checkbox"/> DOCX <input type="checkbox"/> PDF (HTML) Select Delivery COC: <input type="checkbox"/> Email <input type="checkbox"/> Fax <input type="checkbox"/> Web <input type="checkbox"/> No <input checked="" type="checkbox"/> Computer Readable or Clean or Faded <input type="checkbox"/> Private Label <input type="checkbox"/> Yes <input type="checkbox"/> No Select Distribution: <input type="checkbox"/> Email <input type="checkbox"/> Mail <input type="checkbox"/> FAX Email 1 or Fax: mfwilson@fortisenv.com Email 2: smurruvca@fortisenv.com Email 3: ESDar.Cay徇eney@Statalsync.net Invoice Distribution Select Invoice Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: mfwilson@fortisenv.com Email 2: smurruvca@fortisenv.com Email 3: ESDar.Cay徇eney@Statalsync.net Oil and Gas Required Fields (client use) Project Name: PGM Requisition Code: Routing Code: Location: ALS Contact: Can Dang Sampler: Sample Identification and/or Coordinates (The description will appear on the report) WLNG DS 1 on: 7.54 cond: 27a stem temp: 11.0°C WLNG US 1 on: 6.16 cond: 23a stem temp: 10.5°C Drinking Water Field Bank 1/1 Field Bank 2/1 Drinking Water Quarry US 1 WL 3R-12 on: 16.63 cond: 15a stem temp: 9.7°C Quarry DS Swamp 1/1 on: 7.13 cond: 14a stem temp: 12.1°C Drinking Water (DW) Samples (client use) Special Instructions / Specify Criteria to add-on report by clicking on the drop-down list below (electronic COC only) Are samples taken from a Regulated DW System? <input type="checkbox"/> Are samples for human consumption use? <input type="checkbox"/> Triton project # 11964 SHIPMENT RELEASE (client use) Released by: John Blanchard Date: May 15, 2024 Time: 07:49 Initial Shipment Reception (lab use only) Received by: John Blanchard Date: May 15, 2024 Time: 07:49 Final Shipment Reception (lab use only) Received by: John Blanchard Date: May 15, 2024 Time: 07:49 SAMPLE CONDITION AS RECEIVED (lab use only) Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/> Ice Packs <input type="checkbox"/> Ice Cubes <input type="checkbox"/> Custody seal intact <input type="checkbox"/> Cooling unit used <input type="checkbox"/> INITIAL COOLER TEMPERATURES °C FINAL COOLER TEMPERATURES °C Failure to complete all portions of this form may delay analysis. Please R/F in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy. 1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form. | | Select Service Level Review - Contact your ALS to review all of EXP T-1's (charges may apply) Regular <input type="checkbox"/> Standard T-1 received by 1 pm - business day - no surcharge apply 1 day (P-20%) <input type="checkbox"/> 2 day (P-50%) <input type="checkbox"/> 3 day (P-100%) <input type="checkbox"/> 4 day (P-20%) <input type="checkbox"/> 5 day (P-50%) <input type="checkbox"/> 6 day (P-100%) <input type="checkbox"/> 7 day (P-20%) <input type="checkbox"/> 8 day (P-50%) <input type="checkbox"/> 9 day (P-100%) <input type="checkbox"/> 1 Business day (ET - 100%) <input type="checkbox"/> 2 Business day (ET - 200%) <input type="checkbox"/> 3 Business day (ET - 300%) <input type="checkbox"/> 4 Business day (ET - 400%) <input type="checkbox"/> 5 Business day (ET - 500%) <input type="checkbox"/> 6 Business day (ET - 600%) <input type="checkbox"/> 7 Business day (ET - 700%) <input type="checkbox"/> 8 Business day (ET - 800%) <input type="checkbox"/> 9 Business day (ET - 900%) <input type="checkbox"/> 10 Business day (ET - 1000%) <input type="checkbox"/> 11 Business day (ET - 1100%) <input type="checkbox"/> 12 Business day (ET - 1200%) <input type="checkbox"/> 13 Business day (ET - 1300%) <input type="checkbox"/> 14 Business day (ET - 1400%) <input type="checkbox"/> 15 Business day (ET - 1500%) <input type="checkbox"/> 16 Business day (ET - 1600%) <input type="checkbox"/> 17 Business day (ET - 1700%) <input type="checkbox"/> 18 Business day (ET - 1800%) <input type="checkbox"/> 19 Business day (ET - 1900%) <input type="checkbox"/> 20 Business day (ET - 2000%) <input type="checkbox"/> 21 Business day (ET - 2100%) <input type="checkbox"/> 22 Business day (ET - 2200%) <input type="checkbox"/> 23 Business day (ET - 2300%) <input type="checkbox"/> 24 Business day (ET - 2400%) <input type="checkbox"/> 25 Business day (ET - 2500%) <input type="checkbox"/> 26 Business day (ET - 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Sign Off

Report Prepared By: Sam Blanchard

Report Reviewer:

Name:

Designation:

Designation Number:

Report Reviewed:

Professional(s) of Record: