

|   |  |                |  |
|---|--|----------------|--|
|  <b>FORTIS BC™</b> | Eagle Mountain - Woodfibre Gas Pipeline Project<br>Waste Discharge Permit PE-110163 Report | Reporting Week | Aug. 19 <sup>th</sup> to<br>Aug. 25 <sup>th</sup> , 2024 |
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# **Eagle Mountain - Woodfibre Gas Pipeline Project**

## **BCER Waste Discharge Permit Weekly Report**

|   |  |                       |   |
|---|--|-----------------------|---|
|  <b>FORTIS BC™</b> | <b>Eagle Mountain - Woodfibre Gas Pipeline Project</b> | <b>Reporting Week</b> | <b>Aug. 19<sup>th</sup> to Aug. 25<sup>th</sup>, 2024</b> |
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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 environments (upstream and downstream) and points 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. 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             | 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 LevelPro PT100 Temperature and Signet 2350 Temp sensor |
|                                   | NTU                       | Monitoring using Observator NEP9504GPI                                  |
|                                   | Electrical Conductivity   | Monitoring using ProCon C450  |
| Weekly (or per batch) Lab Samples | List prescribed in permit | Lab samples   |

**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                                      |

\*Note that Woodfibre receiving environment downstream sonde is not in place due to dry conditions

## Summary-BC Rail Site

### Site Activities

- No discharges during this reporting period
- Water produced by the water treatment plant is being recirculated for tunneling and to create grout for tunneling.

### 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 | Discharge Rate (batch) | Discharge Volume (batch) | Results |
|------------------------|-------------------|--|---------------------|------------------------|--------------------------|---------|
| BC Rail- No discharges |                   |  |                     |                        |                          |         |

\*Max discharge is 515 m3/day

### Exceedances

No exceedances 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 | Results   |
|-------------------------|--------------------|---------------------|---|
| Squamish River Upstream | 2024-08-19         | 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 | Results   |
|---------------------------|--------------------|---------------------|---|
| Squamish River Downstream | 2023-08-19         | 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

- The downstream sonde/data logger was removed July 16<sup>th</sup> as there was not enough water in the watercourse to log data. BCER was notified.
- The downstream sonde/data logger was reinstalled on August 22<sup>nd</sup> further downstream (not the permitted location) as it was discovered there was a subsurface flow output from East Creek where a sonde could be installed. The original location is still dry.
- Triton (FortisBC QP) sampled upstream and downstream of WC 309-R2, Triton went further downstream to find a location with sufficient water for a sample.
- Triton sampled end of pipe samples from the end of pipe.
- LC 50 sampling results are included in this report from the August 13<sup>th</sup> sampling event, no issues.
- The Long-Term guideline 5 week sample average was exceeded for Dissolved Zinc as well as the sample taken on August 20<sup>th</sup>.
- Included in Appendix C is data from the Water Treatment Plant and data from using a YSI downstream while discharging to document receiving environment as there was no downstream sonde in place due to the dry conditions.

### Point of Discharge from Water Treatment System Monitoring

Table 3 below includes information on the discharge water. Appendix C includes real time/field samples from the discharge.

**Table 3: Discharges from Water Treatment System**

| Location  | Date of Discharge | Real Time Monitored and Daily Monitoring | Discharge Volume   |
|-----------|-------------------|--|--------------------|
| Woodfibre | 2024-08-19        | Yes-Appendix C                           | 52 m <sup>3</sup>  |
| Woodfibre | 2024-08-20        | Yes-Appendix C                           | 37 m <sup>3</sup>  |
| Woodfibre | 2024-08-21        | Yes-Appendix C                           | 78 m <sup>3</sup>  |
| Woodfibre | 2024-08-22        | Yes-Appendix C                           | 79 m <sup>3</sup>  |
| Woodfibre | 2024-08-23        | Yes-Appendix C                           | 120 m <sup>3</sup> |
| Woodfibre | 2024-08-24        | Yes-Appendix C                           | 61 m <sup>3</sup>  |
| Woodfibre | 2024-08-25        | Yes-Appendix C                           | 08 m <sup>3</sup>  |

\*Max discharge is 1500m<sup>3</sup>/day

### Exceedances

The Long-Term guideline 5 week sample average was exceeded for Dissolved Zinc as well as the sample taken on August 20<sup>th</sup>.

|   |  |   |
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## 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 | Results   |
|--------------------|--------------------|---------------------|---|
| Woodfibre Upstream | 2024-08-20         | Yes *               | Full set of lab sample results, photo and documentation are provided in Appendix D. |

**Table 5: Downstream Monitoring Information**

|                      | Date of Lab Sample | Real Time Monitored | Results  |
|----------------------|--------------------|---------------------|--|
| Woodfibre Downstream | 2024-08-20         | No-Sonde Removed    | Full set of lab sample results, photo and documentation are provided in Appendix D. Note that Sonde was removed on July 16 <sup>th</sup> , 2024 due to dry conditions. Sonde was reinstalled at a lower location with water on August 22 <sup>nd</sup> . Contractor used a YSI to do in situ readings during discharges. |

\* 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 are conducted during discharges.
- Recorded exceedances in the laboratory and field samples collected from the receiving environment (upstream and downstream) may be indicative of the existing background water quality in the East Creek and are not related to the EGP Project activities.

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|   | <b>Appendix A</b>                                      | <b>A-1</b>  |

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

|   |  |                       |   |
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|   | <b>Appendix A</b>  | <b>A-2</b>            |   |

## **BCR Site Batch Sample Analysis**

### **No Discharges**

|   |  |   |
|---|--|---|
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## BCR Site Batch Sample Lab Documentation

### No Discharges

|   |  |   |
|---|--|---|
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## **BCR Site WTP Discharge Field Notes and Logs** **No Discharges**

|   |  |   |
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|   | <b>Appendix B</b>                                      | <b>B-1</b>  |

## Appendix B: BCR Site Receiving Environment Documentation

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## BCR Site Receiving Environment Sample Analysis



|   |  |                |   |
|---|--|----------------|---|
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## BCR Site Receiving Environment Lab Documentation

## CERTIFICATE OF ANALYSIS

|                         |   |                         |                                 |
|-------------------------|---|-------------------------|---------------------------------|
| Work Order              | : VA24C1037                             | Page                    | : 1 of 6                        |
| Amendment               | : 1                                     |                         |                                 |
| Client                  | : Triton Environmental Consultants Ltd. | Laboratory              | : ALS Environmental - Vancouver |
| Contact                 |   | Account Manager         | :                               |
| Address                 |   | Address                 | :                               |
| Telephone               | : ----                                  | Telephone               | :                               |
| Project                 | : 11964                                 | Date Samples Received   | : 19-Aug-2024 13:15             |
| PO                      | : 11964 - Task 20 - Phase 3C-4C         | Date Analysis Commenced | : 21-Aug-2024                   |
| C-O-C number            | : ----                                  | Issue Date              | : 30-Aug-2024 15:15             |
| 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                     |
|-------------|--|---|
|             | Lab Assistant                              | Metals, Burnaby, British Columbia         |
|             | Laboratory Analyst                         | Metals, Burnaby, British Columbia         |
|             | Analyst                                    | Metals, Burnaby, British Columbia         |
|             | Lab Analyst                                | Metals, Burnaby, British Columbia         |
|             | Senior Analyst                             | Inorganics, Waterloo, Ontario             |
|             | Senior Analyst                             | Metals, Waterloo, Ontario                 |
|             | Account Manager Assistant                  | Administration, Burnaby, British Columbia |
|             | Team Leader - Metals                       | Inorganics, Burnaby, British Columbia     |
|             | Team Leader - Metals                       | Metals, 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).

| Unit     | Description                 |
|----------|-----------------------------|
| -        | 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.

## Workorder Comments

**Amendment (30/08/2024): This report has been amended and re-released with the following edits - modified the Field data, modified unionized sulfide and additional calculated unionized ammonia analysis data as requested.**

## Analytical Results

| Sub-Matrix: Water<br>(Matrix: Water)                  |            | Client sample ID            |        | SQU US 1             | SQU DS 1             | ---           | ---   | ---   |
|---|------------|-----------------------------|--------|----------------------|----------------------|---------------|-------|-------|
|   |            | Client sampling date / time |        | 19-Aug-2024<br>09:10 | 19-Aug-2024<br>10:52 | ---           | ---   | ---   |
| Analyte   | CAS Number | Method/Lab                  | LOR    | Unit                 | VA24C1037-001        | VA24C1037-002 | ----- | ----- |
|   |            |                             |        | Result               | Result               | ---           | ---   | ---   |
| <b>Field Tests</b>                                    |            |                             |        |                      |                      |               |       |       |
| Conductivity, field                                   | ---        | EF001/VA                    | 0.10   | µS/cm                | 49.000               | 31.000        | ---   | ---   |
| pH, field   | ---        | EF001/VA                    | 0.10   | pH units             | 6.90                 | 6.98          | ---   | ---   |
| Temperature, field                                    | ---        | EF001/VA                    | 0.10   | °C                   | 12.7                 | 12.8          | ---   | ---   |
| <b>Physical Tests</b>                                 |            |                             |        |                      |                      |               |       |       |
| Hardness (as CaCO <sub>3</sub> ), dissolved           | ---        | EC100/VA                    | 0.60   | mg/L                 | 9.95                 | 8.78          | ---   | ---   |
| Hardness (as CaCO <sub>3</sub> ), from total Ca/Mg    | ---        | EC100A/VA                   | 0.60   | mg/L                 | 19.6                 | 23.1          | ---   | ---   |
| Solids, total dissolved [TDS]                         | ---        | E162/VA                     | 10     | mg/L                 | 40                   | 32            | ---   | ---   |
| Solids, total suspended [TSS]                         | ---        | E160/VA                     | 3.0    | mg/L                 | 156                  | 116           | ---   | ---   |
| Alkalinity, total (as CaCO <sub>3</sub> )             | ---        | E290/VA                     | 2.0    | mg/L                 | 9.1                  | 8.1           | ---   | ---   |
| <b>Anions and Nutrients</b>                           |            |                             |        |                      |                      |               |       |       |
| Ammonia, total (as N)                                 | 7664-41-7  | E298/VA                     | 0.0050 | mg/L                 | 0.0666               | 0.0487        | ---   | ---   |
| Ammonia, un-ionized (as N), field                     | 7664-41-7  | EC298A/VA                   | 0.0010 | mg/L                 | <0.0010              | <0.0010       | ---   | ---   |
| 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                 | 0.98                 | 0.90          | ---   | ---   |
| 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<br>A           | 0.0050 | mg/L                 | 0.0162               | 0.0168        | ---   | ---   |
| Nitrite (as N)  | 14797-65-0 | E235.NO2-L/V<br>A           | 0.0010 | mg/L                 | <0.0010              | <0.0010       | ---   | ---   |
| Nitrogen, total                                       | 7727-37-9  | E366/VA                     | 0.030  | mg/L                 | 0.144                | 0.127         | ---   | ---   |
| Phosphorus, total                                     | 7723-14-0  | E372-U/VA                   | 0.0020 | mg/L                 | 0.142                | 0.147         | ---   | ---   |
| Sulfate (as SO <sub>4</sub> )                         | 14808-79-8 | E235.SO4/VA                 | 0.30   | mg/L                 | 2.76                 | 2.46          | ---   | ---   |
| <b>Organic / Inorganic Carbon</b>                     |            |                             |        |                      |                      |               |       |       |
| Carbon, dissolved organic [DOC]                       | ---        | E358-L/VA                   | 0.50   | mg/L                 | 0.50                 | <0.50         | ---   | ---   |
| <b>Total Sulfides</b>                                 |            |                             |        |                      |                      |               |       |       |
| Sulfide, total (as S)                                 | 18496-25-8 | E395/VA                     | 0.0015 | mg/L                 | <0.0015              | <0.0015       | ---   | ---   |
| Sulfide, un-ionized (as H <sub>2</sub> S), from total | 7783-06-4  | EC395/VA                    | 0.0015 | mg/L                 | <0.0015              | <0.0015       | ---   | ---   |
| Sulfide, total (as H <sub>2</sub> S)                  | 7783-06-4  | E395/VA                     | 0.0016 | mg/L                 | <0.0016              | <0.0016       | ---   | ---   |
| <b>Total Metals</b>                                   |            |                             |        |                      |                      |               |       |       |
| Aluminum, total                                       | 7429-90-5  | E420/VA                     | 0.0030 | mg/L                 | 6.34                 | 7.17          | ---   | ---   |







## Analytical Results

| Sub-Matrix: Water<br>(Matrix: Water)  |            | Client sample ID |          | SQU US 1 | SQU DS 1      | ---           | ---   | ---   |       |
|---------------------------------------|------------|------------------|----------|----------|---------------|---------------|-------|-------|-------|
| Analyte                               | CAS Number | Method/Lab       | LOR      | Unit     | VA24C1037-001 | VA24C1037-002 | ----- | ----- | ----- |
|                                       |            |                  |          |          | Result        | Result        | ---   | ---   | ---   |
| <b>Dissolved Metals</b>               |            |                  |          |          |               |               |       |       |       |
| Nickel, dissolved                     | 7440-02-0  | E421/VA          | 0.00050  | mg/L     | <0.00050      | <0.00050      | ---   | ---   | ---   |
| 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     | 0.610         | 0.556         | ---   | ---   | ---   |
| Rubidium, dissolved                   | 7440-17-7  | E421/VA          | 0.00020  | mg/L     | 0.00091       | 0.00081       | ---   | ---   | ---   |
| 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     | 3.00          | 2.46          | ---   | ---   | ---   |
| 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     | 1.29          | 1.12          | ---   | ---   | ---   |
| Strontium, dissolved                  | 7440-24-6  | E421/VA          | 0.00020  | mg/L     | 0.0228        | 0.0205        | ---   | ---   | ---   |
| Sulfur, dissolved                     | 7704-34-9  | E421/VA          | 0.50     | mg/L     | 0.69          | 0.54          | ---   | ---   | ---   |
| 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     | 0.00510       | 0.00467       | ---   | ---   | ---   |
| 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     | 0.000015      | 0.000014      | ---   | ---   | ---   |
| Vanadium, dissolved                   | 7440-62-2  | E421/VA          | 0.00050  | mg/L     | 0.00102       | 0.00088       | ---   | ---   | ---   |
| Zinc, dissolved                       | 7440-66-6  | E421/VA          | 0.0010   | mg/L     | <0.0010       | <0.0010       | ---   | ---   | ---   |
| Zirconium, dissolved                  | 7440-67-7  | E421/VA          | 0.00020  | mg/L     | 0.00025       | <0.00020      | ---   | ---   | ---   |
| Dissolved mercury filtration location | ----       | EP509/VA         | -        | -        | Laboratory    | Laboratory    | ---   | ---   | ---   |
| Dissolved metals filtration location  | ----       | EP421/VA         | -        | -        | Laboratory    | Laboratory    | ---   | ---   | ---   |
| <b>Speciated Metals</b>               |            |                  |          |          |               |               |       |       |       |
| Chromium, hexavalent [Cr VI], total   | 18540-29-9 | E532/WT          | 0.00050  | mg/L     | <0.00050      | <0.00050      | ---   | ---   | ---   |
| Chromium, trivalent [Cr III], total   | 16065-83-1 | EC535/WT         | 0.00050  | mg/L     | 0.00136       | 0.00227       | ---   | ---   | ---   |

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              | : VA24C1037  | Page                  | : 1 of 14  |
| Amendment               | : 1  |                       |  |
| Client Contact Address  | : Triton Environmental Consultants Ltd.<br> | Laboratory            | : ALS Environmental - Vancouver<br> |
| Telephone               | : ----   | Telephone             |  |
| Project                 | : 11964  | Date Samples Received | : 19-Aug-2024 13:15  |
| PO                      | : 11964 - Task 20 - Phase 3C-4C  | Issue Date            | : 30-Aug-2024 15:16  |
| 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)***

- Analysis Holding Time Outliers exist - please see following pages for full details.

### ***Outliers : Frequency of Quality Control Samples***

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.



## 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 |             |         |        |   |  |  |  |
| Anions and Nutrients : Ammonia by Fluorescence            |                                 |        |   | Rec                      | Actual        | Rec         |         |               | Actual        |             |         |        |   |  |  |  |
| Amber glass total (sulfuric acid)                         |                                 |        |   | E298                     | 19-Aug-2024   | 24-Aug-2024 | 28 days | 5 days        | ✓             | 24-Aug-2024 | 28 days | 6 days | ✓ |  |  |  |
| Anions and Nutrients : Ammonia by Fluorescence            |                                 |        |   | E298                     | 19-Aug-2024   | 24-Aug-2024 | 28 days | 5 days        | ✓             | 24-Aug-2024 | 28 days | 6 days | ✓ |  |  |  |
| Anions and Nutrients : Bromide in Water by IC (Low Level) |                                 |        |   | E235.Br-L                | 19-Aug-2024   | 21-Aug-2024 | 28 days | 2 days        | ✓             | 21-Aug-2024 | 28 days | 2 days | ✓ |  |  |  |
| Anions and Nutrients : Bromide in Water by IC (Low Level) |                                 |        |   | E235.Br-L                | 19-Aug-2024   | 21-Aug-2024 | 28 days | 2 days        | ✓             | 21-Aug-2024 | 28 days | 2 days | ✓ |  |  |  |
| Anions and Nutrients : Chloride in Water by IC            |                                 |        |   | E235.Cl                  | 19-Aug-2024   | 21-Aug-2024 | 28 days | 2 days        | ✓             | 21-Aug-2024 | 28 days | 2 days | ✓ |  |  |  |
| Anions and Nutrients : Chloride in Water by IC            |                                 |        |   | E235.Cl                  | 19-Aug-2024   | 21-Aug-2024 | 28 days | 2 days        | ✓             | 21-Aug-2024 | 28 days | 2 days | ✓ |  |  |  |
| Anions and Nutrients : Fluoride in Water by IC            |                                 |        |   | E235.F                   | 19-Aug-2024   | 21-Aug-2024 | 28 days | 2 days        | ✓             | 21-Aug-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 |
| <b>Anions and Nutrients : Fluoride in Water by IC</b>            |            |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU US 1   | E235.F     | 19-Aug-2024   | 21-Aug-2024              | 28 days           | 2 days               | ✓    | 21-Aug-2024   | 28 days           | 2 days               |
| <b>Anions and Nutrients : Nitrate in Water by IC (Low Level)</b> |            |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU DS 1   | E235.NO3-L | 19-Aug-2024   | 21-Aug-2024              | 3 days            | 2 days               | ✓    | 21-Aug-2024   | 3 days            | 2 days               |
| <b>Anions and Nutrients : Nitrate in Water by IC (Low Level)</b> |            |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU US 1   | E235.NO3-L | 19-Aug-2024   | 21-Aug-2024              | 3 days            | 2 days               | ✓    | 21-Aug-2024   | 3 days            | 2 days               |
| <b>Anions and Nutrients : Nitrite in Water by IC (Low Level)</b> |            |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU DS 1   | E235.NO2-L | 19-Aug-2024   | 21-Aug-2024              | 3 days            | 2 days               | ✓    | 21-Aug-2024   | 3 days            | 2 days               |
| <b>Anions and Nutrients : Nitrite in Water by IC (Low Level)</b> |            |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU US 1   | E235.NO2-L | 19-Aug-2024   | 21-Aug-2024              | 3 days            | 2 days               | ✓    | 21-Aug-2024   | 3 days            | 2 days               |
| <b>Anions and Nutrients : Sulfate in Water by IC</b>             |            |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU DS 1   | E235.SO4   | 19-Aug-2024   | 21-Aug-2024              | 28 days           | 2 days               | ✓    | 21-Aug-2024   | 28 days           | 2 days               |
| <b>Anions and Nutrients : Sulfate in Water by IC</b>             |            |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU US 1   | E235.SO4   | 19-Aug-2024   | 21-Aug-2024              | 28 days           | 2 days               | ✓    | 21-Aug-2024   | 28 days           | 2 days               |
| <b>Anions and Nutrients : Total Nitrogen by Colourimetry</b>     |            |               |                          |                   |                      |      |               |                   |                      |
| Amber glass total (sulfuric acid)<br>SQU DS 1                    | E366       | 19-Aug-2024   | 24-Aug-2024              | 28 days           | 5 days               | ✓    | 27-Aug-2024   | 28 days           | 8 days               |
| <b>Anions and Nutrients : Total Nitrogen by Colourimetry</b>     |            |               |                          |                   |                      |      |               |                   |                      |
| Amber glass total (sulfuric acid)<br>SQU US 1                    | E366       | 19-Aug-2024   | 24-Aug-2024              | 28 days           | 5 days               | ✓    | 27-Aug-2024   | 28 days           | 8 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 |   |
| <b>Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)</b>  |        |               |                          |                   |                      |      |               |                   |                      |   |
| Amber glass total (sulfuric acid)<br>SQU DS 1  | E372-U | 19-Aug-2024   | 24-Aug-2024              | 28 days           | 5 days               | ✓    | 27-Aug-2024   | 28 days           | 8 days               | ✓ |
| <b>Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)</b>  |        |               |                          |                   |                      |      |               |                   |                      |   |
| Amber glass total (sulfuric acid)<br>SQU US 1  | E372-U | 19-Aug-2024   | 24-Aug-2024              | 28 days           | 5 days               | ✓    | 27-Aug-2024   | 28 days           | 8 days               | ✓ |
| <b>Dissolved Metals : Dissolved Mercury in Water by CVAAS</b>  |        |               |                          |                   |                      |      |               |                   |                      |   |
| Glass vial - dissolved (lab preserved)<br>SQU DS 1   | E509   | 19-Aug-2024   | 27-Aug-2024              | 28 days           | 8 days               | ✓    | 27-Aug-2024   | 28 days           | 8 days               | ✓ |
| <b>Dissolved Metals : Dissolved Mercury in Water by CVAAS</b>  |        |               |                          |                   |                      |      |               |                   |                      |   |
| Glass vial - dissolved (lab preserved)<br>SQU US 1   | E509   | 19-Aug-2024   | 27-Aug-2024              | 28 days           | 8 days               | ✓    | 27-Aug-2024   | 28 days           | 8 days               | ✓ |
| <b>Dissolved Metals : Dissolved Metals in Water by CRC ICPMS</b>   |        |               |                          |                   |                      |      |               |                   |                      |   |
| HDPE - dissolved (lab preserved)<br>SQU DS 1   | E421   | 19-Aug-2024   | 21-Aug-2024              | 180 days          | 2 days               | ✓    | 23-Aug-2024   | 180 days          | 4 days               | ✓ |
| <b>Dissolved Metals : Dissolved Metals in Water by CRC ICPMS</b>   |        |               |                          |                   |                      |      |               |                   |                      |   |
| HDPE - dissolved (lab preserved)<br>SQU US 1   | E421   | 19-Aug-2024   | 21-Aug-2024              | 180 days          | 2 days               | ✓    | 23-Aug-2024   | 180 days          | 4 days               | ✓ |
| <b>Field Tests : Field pH,EC,Salinity, TDS, Cl<sub>2</sub>,ClO<sub>2</sub>,ORP,DO, Turbidity,T,T-P,o-PO<sub>4</sub>,NH3,Chloramine</b> |        |               |                          |                   |                      |      |               |                   |                      |   |
| Glass vial - total (lab preserved)<br>SQU DS 1   | EF001  | 19-Aug-2024   | ---                      | ---               | ---                  |      | 21-Aug-2024   | ---               | 2 days               |   |
| <b>Field Tests : Field pH,EC,Salinity, TDS, Cl<sub>2</sub>,ClO<sub>2</sub>,ORP,DO, Turbidity,T,T-P,o-PO<sub>4</sub>,NH3,Chloramine</b> |        |               |                          |                   |                      |      |               |                   |                      |   |
| Glass vial - total (lab preserved)<br>SQU US 1   | EF001  | 19-Aug-2024   | ---                      | ---               | ---                  |      | 21-Aug-2024   | ---               | 2 days               |   |
| <b>Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)</b>   |        |               |                          |                   |                      |      |               |                   |                      |   |
| Amber glass dissolved (sulfuric acid)<br>SQU DS 1  | E358-L | 19-Aug-2024   | 24-Aug-2024              | 28 days           | 5 days               | ✓    | 24-Aug-2024   | 28 days           | 5 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 |
| <b>Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)</b> |        |               |                          |                   |                      |      |               |                   |                      |
| Amber glass dissolved (sulfuric acid)<br>SQU US 1                                      | E358-L | 19-Aug-2024   | 24-Aug-2024              | 28 days           | 5 days               | ✓    | 24-Aug-2024   | 28 days           | 5 days               |
| <b>Physical Tests : Alkalinity Species by Titration</b>                                |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU DS 1   | E290   | 19-Aug-2024   | 21-Aug-2024              | 14 days           | 2 days               | ✓    | 21-Aug-2024   | 14 days           | 2 days               |
| <b>Physical Tests : Alkalinity Species by Titration</b>                                |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU US 1   | E290   | 19-Aug-2024   | 21-Aug-2024              | 14 days           | 2 days               | ✓    | 21-Aug-2024   | 14 days           | 2 days               |
| <b>Physical Tests : TDS by Gravimetry</b>  |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU DS 1   | E162   | 19-Aug-2024   | ---                      | ---               | ---                  |      | 27-Aug-2024   | 7 days            | 8 days               |
| ✗ EHT  |        |               |                          |                   |                      |      |               |                   |                      |
| <b>Physical Tests : TDS by Gravimetry</b>  |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU US 1   | E162   | 19-Aug-2024   | ---                      | ---               | ---                  |      | 27-Aug-2024   | 7 days            | 8 days               |
| ✗ EHT  |        |               |                          |                   |                      |      |               |                   |                      |
| <b>Physical Tests : TSS by Gravimetry</b>  |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU DS 1   | E160   | 19-Aug-2024   | ---                      | ---               | ---                  |      | 24-Aug-2024   | 7 days            | 5 days               |
| ✓  |        |               |                          |                   |                      |      |               |                   |                      |
| <b>Physical Tests : TSS by Gravimetry</b>  |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>SQU US 1   | E160   | 19-Aug-2024   | ---                      | ---               | ---                  |      | 24-Aug-2024   | 7 days            | 5 days               |
| ✓  |        |               |                          |                   |                      |      |               |                   |                      |
| <b>Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC</b>                      |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE - total (sodium hydroxide)<br>SQU DS 1  | E532   | 19-Aug-2024   | ---                      | ---               | ---                  |      | 23-Aug-2024   | 28 days           | 4 days               |
| ✓  |        |               |                          |                   |                      |      |               |                   |                      |
| <b>Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC</b>                      |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE - total (sodium hydroxide)<br>SQU US 1  | E532   | 19-Aug-2024   | ---                      | ---               | ---                  |      | 23-Aug-2024   | 28 days           | 4 days               |
| ✓  |        |               |                          |                   |                      |      |               |                   |                      |



| 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 Rec | Holding Times Actual | Eval | Analysis Date | Holding Times Rec | Holding Times Actual | Eval  |  |  |
| <b>Total Metals : Total Mercury in Water by CVAAS</b>                  |                                 |        |               |                          |                   |                      |      |               |                   |                      |   |  |  |
| Glass vial - total (lab preserved)<br>SQU DS 1                         |                                 | E508   | 19-Aug-2024   | 28-Aug-2024              | 28 days           | 9 days               | ✓    | 28-Aug-2024   | 28 days           | 9 days               | ✓   |  |  |
| <b>Total Metals : Total Mercury in Water by CVAAS</b>                  |                                 |        |               |                          |                   |                      |      |               |                   |                      |   |  |  |
| Glass vial - total (lab preserved)<br>SQU US 1                         |                                 | E508   | 19-Aug-2024   | 28-Aug-2024              | 28 days           | 9 days               | ✓    | 28-Aug-2024   | 28 days           | 9 days               | ✓   |  |  |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>               |                                 |        |               |                          |                   |                      |      |               |                   |                      |   |  |  |
| HDPE - total (lab preserved)<br>SQU US 1                               |                                 | E420   | 19-Aug-2024   | 27-Aug-2024              | 180 days          | 8 days               | ✓    | 28-Aug-2024   | 180 days          | 10 days              | ✓   |  |  |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>               |                                 |        |               |                          |                   |                      |      |               |                   |                      |   |  |  |
| HDPE - total (lab preserved)<br>SQU DS 1                               |                                 | E420   | 19-Aug-2024   | 27-Aug-2024              | 180 days          | 8 days               | ✓    | 28-Aug-2024   | 180 days          | 9 days               | ✓   |  |  |
| <b>Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)</b> |                                 |        |               |                          |                   |                      |      |               |                   |                      |   |  |  |
| HDPE total (zinc acetate+sodium hydroxide)<br>SQU DS 1                 |                                 | E395   | 19-Aug-2024   | ----                     | ----              | ----                 |      | 23-Aug-2024   | 7 days            | 4 days               | ✓   |  |  |
| <b>Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)</b> |                                 |        |               |                          |                   |                      |      |               |                   |                      |   |  |  |
| HDPE total (zinc acetate+sodium hydroxide)<br>SQU US 1                 |                                 | E395   | 19-Aug-2024   | ----                     | ----              | ----                 |      | 23-Aug-2024   | 7 days            | 4 days               | ✓   |  |  |

#### Legend & Qualifier Definitions

EHT: Exceeded ALS recommended hold time prior to analysis.

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 |
| <b>Laboratory Duplicates (DUP)</b>                 |                    |            |          |       |         |               |          |
| Alkalinity Species by Titration                    |                    | E290       | 1607290  | 0     | 20      | 0.0           | 5.0      |
| Ammonia by Fluorescence                            |                    | E298       | 1614118  | 1     | 17      | 5.8           | 5.0      |
| Bromide in Water by IC (Low Level)                 |                    | E235.Br-L  | 1607287  | 1     | 7       | 14.2          | 5.0      |
| Chloride in Water by IC                            |                    | E235.Cl    | 1607283  | 1     | 20      | 5.0           | 5.0      |
| Dissolved Mercury in Water by CVAAS                |                    | E509       | 1619177  | 1     | 10      | 10.0          | 5.0      |
| Dissolved Metals in Water by CRC ICPMS             |                    | E421       | 1607968  | 1     | 19      | 5.2           | 5.0      |
| Dissolved Organic Carbon by Combustion (Low Level) |                    | E358-L     | 1614115  | 1     | 10      | 10.0          | 5.0      |
| Fluoride in Water by IC                            |                    | E235.F     | 1607286  | 1     | 8       | 12.5          | 5.0      |
| Nitrate in Water by IC (Low Level)                 |                    | E235.NO3-L | 1607284  | 1     | 8       | 12.5          | 5.0      |
| Nitrite in Water by IC (Low Level)                 |                    | E235.NO2-L | 1607285  | 1     | 8       | 12.5          | 5.0      |
| Sulfate in Water by IC                             |                    | E235.SO4   | 1607282  | 1     | 20      | 5.0           | 5.0      |
| TDS by Gravimetry                                  |                    | E162       | 1614852  | 2     | 22      | 9.0           | 5.0      |
| Total Hexavalent Chromium (Cr VI) by IC            |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      |
| Total Mercury in Water by CVAAS                    |                    | E508       | 1621389  | 1     | 20      | 5.0           | 5.0      |
| Total Metals in Water by CRC ICPMS                 |                    | E420       | 1608069  | 1     | 20      | 5.0           | 5.0      |
| Total Nitrogen by Colourimetry                     |                    | E366       | 1614116  | 1     | 7       | 14.2          | 5.0      |
| Total Phosphorus by Colourimetry (0.002 mg/L)      |                    | E372-U     | 1614122  | 1     | 8       | 12.5          | 5.0      |
| Total Sulfide by Colourimetry (Automated Flow)     |                    | E395       | 1612976  | 1     | 17      | 5.8           | 5.0      |
| TSS by Gravimetry                                  |                    | E160       | 1614843  | 2     | 22      | 9.0           | 5.0      |
| <b>Laboratory Control Samples (LCS)</b>            |                    |            |          |       |         |               |          |
| Alkalinity Species by Titration                    |                    | E290       | 1607290  | 1     | 20      | 5.0           | 5.0      |
| Ammonia by Fluorescence                            |                    | E298       | 1614118  | 1     | 17      | 5.8           | 5.0      |
| Bromide in Water by IC (Low Level)                 |                    | E235.Br-L  | 1607287  | 1     | 7       | 14.2          | 5.0      |
| Chloride in Water by IC                            |                    | E235.Cl    | 1607283  | 1     | 20      | 5.0           | 5.0      |
| Dissolved Mercury in Water by CVAAS                |                    | E509       | 1619177  | 1     | 10      | 10.0          | 5.0      |
| Dissolved Metals in Water by CRC ICPMS             |                    | E421       | 1607968  | 1     | 19      | 5.2           | 5.0      |
| Dissolved Organic Carbon by Combustion (Low Level) |                    | E358-L     | 1614115  | 1     | 10      | 10.0          | 5.0      |
| Fluoride in Water by IC                            |                    | E235.F     | 1607286  | 1     | 8       | 12.5          | 5.0      |
| Nitrate in Water by IC (Low Level)                 |                    | E235.NO3-L | 1607284  | 1     | 8       | 12.5          | 5.0      |
| Nitrite in Water by IC (Low Level)                 |                    | E235.NO2-L | 1607285  | 1     | 8       | 12.5          | 5.0      |
| Sulfate in Water by IC                             |                    | E235.SO4   | 1607282  | 1     | 20      | 5.0           | 5.0      |
| TDS by Gravimetry                                  |                    | E162       | 1614852  | 2     | 22      | 9.0           | 5.0      |
| Total Hexavalent Chromium (Cr VI) by IC            |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      |
| Total Mercury in Water by CVAAS                    |                    | E508       | 1621389  | 1     | 20      | 5.0           | 5.0      |
| Total Metals in Water by CRC ICPMS                 |                    | E420       | 1608069  | 1     | 20      | 5.0           | 5.0      |
| Total Nitrogen by Colourimetry                     |                    | E366       | 1614116  | 1     | 7       | 14.2          | 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 |
| <b>Laboratory Control Samples (LCS) - Continued</b> |                    |            |          |       |         |               |          |
| Total Phosphorus by Colourimetry (0.002 mg/L)       |                    | E372-U     | 1614122  | 1     | 8       | 12.5          | 5.0      |
| Total Sulfide by Colourimetry (Automated Flow)      |                    | E395       | 1612976  | 1     | 17      | 5.8           | 5.0      |
| TSS by Gravimetry                                   |                    | E160       | 1614843  | 2     | 22      | 9.0           | 5.0      |
| <b>Method Blanks (MB)</b>                           |                    |            |          |       |         |               |          |
| Alkalinity Species by Titration                     |                    | E290       | 1607290  | 1     | 20      | 5.0           | 5.0      |
| Ammonia by Fluorescence                             |                    | E298       | 1614118  | 1     | 17      | 5.8           | 5.0      |
| Bromide in Water by IC (Low Level)                  |                    | E235.Br-L  | 1607287  | 1     | 7       | 14.2          | 5.0      |
| Chloride in Water by IC                             |                    | E235.Cl    | 1607283  | 1     | 20      | 5.0           | 5.0      |
| Dissolved Mercury in Water by CVAAS                 |                    | E509       | 1619177  | 1     | 10      | 10.0          | 5.0      |
| Dissolved Metals in Water by CRC ICPMS              |                    | E421       | 1607968  | 1     | 19      | 5.2           | 5.0      |
| Dissolved Organic Carbon by Combustion (Low Level)  |                    | E358-L     | 1614115  | 1     | 10      | 10.0          | 5.0      |
| Fluoride in Water by IC                             |                    | E235.F     | 1607286  | 1     | 8       | 12.5          | 5.0      |
| Nitrate in Water by IC (Low Level)                  |                    | E235.NO3-L | 1607284  | 1     | 8       | 12.5          | 5.0      |
| Nitrite in Water by IC (Low Level)                  |                    | E235.NO2-L | 1607285  | 1     | 8       | 12.5          | 5.0      |
| Sulfate in Water by IC                              |                    | E235.SO4   | 1607282  | 1     | 20      | 5.0           | 5.0      |
| TDS by Gravimetry                                   |                    | E162       | 1614852  | 2     | 22      | 9.0           | 5.0      |
| Total Hexavalent Chromium (Cr VI) by IC             |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      |
| Total Mercury in Water by CVAAS                     |                    | E508       | 1621389  | 1     | 20      | 5.0           | 5.0      |
| Total Metals in Water by CRC ICPMS                  |                    | E420       | 1608069  | 1     | 20      | 5.0           | 5.0      |
| Total Nitrogen by Colourimetry                      |                    | E366       | 1614116  | 1     | 7       | 14.2          | 5.0      |
| Total Phosphorus by Colourimetry (0.002 mg/L)       |                    | E372-U     | 1614122  | 1     | 8       | 12.5          | 5.0      |
| Total Sulfide by Colourimetry (Automated Flow)      |                    | E395       | 1612976  | 1     | 17      | 5.8           | 5.0      |
| TSS by Gravimetry                                   |                    | E160       | 1614843  | 2     | 22      | 9.0           | 5.0      |
| <b>Matrix Spikes (MS)</b>                           |                    |            |          |       |         |               |          |
| Ammonia by Fluorescence                             |                    | E298       | 1614118  | 1     | 17      | 5.8           | 5.0      |
| Bromide in Water by IC (Low Level)                  |                    | E235.Br-L  | 1607287  | 1     | 7       | 14.2          | 5.0      |
| Chloride in Water by IC                             |                    | E235.Cl    | 1607283  | 1     | 20      | 5.0           | 5.0      |
| Dissolved Mercury in Water by CVAAS                 |                    | E509       | 1619177  | 1     | 10      | 10.0          | 5.0      |
| Dissolved Metals in Water by CRC ICPMS              |                    | E421       | 1607968  | 1     | 19      | 5.2           | 5.0      |
| Dissolved Organic Carbon by Combustion (Low Level)  |                    | E358-L     | 1614115  | 1     | 10      | 10.0          | 5.0      |
| Fluoride in Water by IC                             |                    | E235.F     | 1607286  | 1     | 8       | 12.5          | 5.0      |
| Nitrate in Water by IC (Low Level)                  |                    | E235.NO3-L | 1607284  | 1     | 8       | 12.5          | 5.0      |
| Nitrite in Water by IC (Low Level)                  |                    | E235.NO2-L | 1607285  | 1     | 8       | 12.5          | 5.0      |
| Sulfate in Water by IC                              |                    | E235.SO4   | 1607282  | 1     | 20      | 5.0           | 5.0      |
| Total Hexavalent Chromium (Cr VI) by IC             |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      |
| Total Mercury in Water by CVAAS                     |                    | E508       | 1621389  | 1     | 20      | 5.0           | 5.0      |
| Total Metals in Water by CRC ICPMS                  |                    | E420       | 1608069  | 1     | 20      | 5.0           | 5.0      |
| Total Nitrogen by Colourimetry                      |                    | E366       | 1614116  | 1     | 7       | 14.2          | 5.0      |
| Total Phosphorus by Colourimetry (0.002 mg/L)       |                    | E372-U     | 1614122  | 1     | 8       | 12.5          | 5.0      |

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Work Order : VA24C1037 Amendment 1  
Client : Triton Environmental Consultants Ltd.  
Project : 11964



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

| Quality Control Sample Type                    | Method | QC Lot # | Count |         | Frequency (%) |          |            |
|--|--------|----------|-------|---------|---------------|----------|------------|
|  |        |          | QC    | Regular | Actual        | Expected | Evaluation |
| <b>Matrix Spikes (MS) - Continued</b>          |        |          |       |         |               |          |            |
| Total Sulfide by Colourimetry (Automated Flow) | E395   | 1612976  | 1     | 17      | 5.8           | 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").

| <b>Analytical Methods</b>          | <b>Method / Lab</b>                         | <b>Matrix</b> | <b>Method Reference</b> | <b>Method Descriptions</b>  |
|------------------------------------|---|---------------|-------------------------|---|
| TSS by Gravimetry                  | E160<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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 <sub>2</sub> . 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<br>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<br>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<br>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 <sub>2</sub> S" if reported represent the maximum possible H <sub>2</sub> S concentration based on the total sulfide concentration in the sample. The H <sub>2</sub> S calculation converts Total Sulphide as (S <sup>2-</sup> ) and reports it as Total Sulphide as (H <sub>2</sub> S)  |
| Total Metals in Water by CRC ICPMS                 | E420<br>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<br>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<br>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<br>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<br>ALS Environmental - Waterloo    | 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<br>ALS Environmental - Vancouver  | Water  | APHA 2340B                          | "Hardness (as CaCO <sub>3</sub> , dissolved)" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO <sub>3</sub> 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<br>ALS Environmental - Vancouver | Water  | APHA 2340B                          | "Hardness (as CaCO <sub>3</sub> , from total Ca/Mg)" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO <sub>3</sub> 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 and Ionized Ammonia (Calculation)<br>(Field Temperature and pH)   |  | EC298A<br>ALS Environmental - Vancouver | Water  | CCME CWQG Ammonia                   | Un-ionized ammonia is calculated from test results for total ammonia, field temperature and pH, and is expressed in units of mg/L "as N".   |
| Un-ionized Total Hydrogen Sulfide<br>(calculated)  |  | EC395<br>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<br>ALS Environmental - Waterloo   | 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, TDS, Cl <sub>2</sub> ,ClO <sub>2</sub> ,ORP,DO, Turbidity,T,T-P,o-PO <sub>4</sub> ,NH <sub>3</sub> ,Chloramine |  | EF001<br>ALS Environmental - Vancouver  | Water  | Field Measurement (Client Supplied) | Field pH,EC,Salinity, TDS, Cl <sub>2</sub> ,ClO <sub>2</sub> ,ORP,DO, Turbidity,T,T-P,o-PO <sub>4</sub> ,NH <sub>3</sub> or Chloramine measurements provided by client and recorded on ALS report may affect the validity of results.   |
| Preparation Methods  |  |   |        |                                     |   |
| Preparation for Ammonia  |  | EP298<br>ALS Environmental - Vancouver  | Water  |                                     | Sample preparation for Preserved Nutrients Water Quality Analysis.  |
| Preparation for Dissolved Organic Carbon for Combustion  |  | EP358<br>ALS Environmental - Vancouver  | Water  | APHA 5310 B (mod)                   | Preparation for Dissolved Organic Carbon  |
| Digestion for Total Nitrogen in water  |  | EP366<br>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.  |



| <i>Preparation Methods</i>              | <i>Method / Lab</i>                        | <i>Matrix</i> | <i>Method Reference</i> | <i>Method Descriptions</i>                                     |
|---|--|---------------|-------------------------|--|
| Digestion for Total Phosphorus in water | EP372<br><br>ALS Environmental - Vancouver | Water         | APHA 4500-P E (mod.)    | Samples are heated with a persulfate digestion reagent.        |
| Dissolved Metals Water Filtration       | EP421<br><br>ALS Environmental - Vancouver | Water         | APHA 3030B              | Water samples are filtered (0.45 um), and preserved with HNO3. |
| Dissolved Mercury Water Filtration      | EP509<br><br>ALS Environmental - Vancouver | Water         | APHA 3030B              | Water samples are filtered (0.45 um), and preserved with HCl.  |

## QUALITY CONTROL REPORT

|                         |   |                         |                                 |
|-------------------------|---|-------------------------|---------------------------------|
| Work Order              | : VA24C1037                             | Page                    | : 1 of 17                       |
| Amendment               | : 1                                     |                         |                                 |
| 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   | : 19-Aug-2024 13:15             |
| PO                      | : 11964 - Task 20 - Phase 3C-4C         | Date Analysis Commenced | : 21-Aug-2024                   |
| C-O-C number            | : ----                                  | Issue Date              | : 30-Aug-2024 15:16             |
| 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                               |
|-------------|--|---|
| [REDACTED]  | Lab Assistant                              | Vancouver Metals, Burnaby, British Columbia         |
|             | Laboratory Analyst                         | Vancouver Metals, Burnaby, British Columbia         |
|             | Analyst                                    | Vancouver Metals, Burnaby, British Columbia         |
|             | Lab Analyst                                | Vancouver Metals, Burnaby, British Columbia         |
|             | Senior Analyst                             | Vancouver Metals, Burnaby, British Columbia         |
|             | Senior Analyst                             | Waterloo Inorganics, Waterloo, Ontario              |
|             | Account Manager Assistant                  | Waterloo Metals, Waterloo, Ontario                  |
|             | Team Leader - Metals                       | Vancouver Administration, Burnaby, British Columbia |
|             | Team Leader - Metals                       | Vancouver Inorganics, Burnaby, British Columbia     |
|             | Supervisor - Water Quality Instrumentation | Vancouver Metals, 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 |
| <b>Physical Tests (QC Lot: 1614843)</b>             |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| FJ2402485-001                                       | Anonymous        | Solids, total suspended [TSS]   | ----       | E160       | 3.0    | mg/L | <3.0            | <3.0             | 0                    | Diff <2x LOR     | ----      |
| <b>Physical Tests (QC Lot: 1614844)</b>             |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C1037-002                                       | SQU DS 1         | Solids, total suspended [TSS]   | ----       | E160       | 3.0    | mg/L | 116             | 120              | 3.73%                | 20%              | ----      |
| <b>Physical Tests (QC Lot: 1614852)</b>             |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| FJ2402485-001                                       | Anonymous        | Solids, total dissolved [TDS]   | ----       | E162       | 10     | mg/L | 271             | 265              | 2.24%                | 20%              | ----      |
| <b>Physical Tests (QC Lot: 1614853)</b>             |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C1037-002                                       | SQU DS 1         | Solids, total dissolved [TDS]   | ----       | E162       | 10     | mg/L | 32              | 31               | 2                    | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607282)</b>       |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0638-001                                       | Anonymous        | Sulfate (as SO <sub>4</sub> )   | 14808-79-8 | E235.SO4   | 1.50   | mg/L | 697             | 689              | 1.07%                | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 1607283)</b>       |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0638-001                                       | Anonymous        | Chloride                        | 16887-00-6 | E235.Cl    | 2.50   | mg/L | 25.8            | 25.6             | 0.851%               | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 1607284)</b>       |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0638-001                                       | Anonymous        | Nitrate (as N)                  | 14797-55-8 | E235.NO3-L | 0.0250 | mg/L | 0.376           | 0.374            | 0.373%               | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 1607285)</b>       |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0638-001                                       | Anonymous        | Nitrite (as N)                  | 14797-65-0 | E235.NO2-L | 0.0050 | mg/L | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607286)</b>       |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0638-001                                       | Anonymous        | Fluoride                        | 16984-48-8 | E235.F     | 0.100  | mg/L | 0.200           | 0.198            | 0.002                | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607287)</b>       |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0638-001                                       | Anonymous        | Bromide                         | 24959-67-9 | E235.Br-L  | 0.250  | mg/L | <0.250          | <0.250           | 0                    | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1614116)</b>       |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C1037-001                                       | SQU US 1         | Nitrogen, total                 | 7727-37-9  | E366       | 0.030  | mg/L | 0.144           | 0.143            | 0.00008              | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1614118)</b>       |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0950-001                                       | Anonymous        | Ammonia, total (as N)           | 7664-41-7  | E298       | 0.0050 | mg/L | 0.807           | 0.819            | 1.46%                | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 1614122)</b>       |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0988-001                                       | Anonymous        | Phosphorus, total               | 7723-14-0  | E372-U     | 0.0020 | mg/L | 0.0029          | 0.0026           | 0.0003               | Diff <2x LOR     | ----      |
| <b>Organic / Inorganic Carbon (QC Lot: 1614115)</b> |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0988-001                                       | Anonymous        | Carbon, dissolved organic [DOC] | ----       | E358-L     | 0.50   | mg/L | 3.26            | 3.32             | 0.07                 | Diff <2x LOR     | ----      |
| <b>Total Sulfides (QC Lot: 1612976)</b>             |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |
| CG2411715-001                                       | Anonymous        | Sulfide, total (as S)           | 18496-25-8 | E395       | 0.0015 | mg/L | <0.0015         | <0.0015          | 0                    | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 1608069)</b>               |                  |                                 |            |            |        |      |                 |                  |                      |                  |           |



| 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 |
| <b>Total Metals (QC Lot: 1608069) - continued</b> |                  |                   |            |        |                                   |      |                 |                  |                      |                  |           |
| VA24C1018-001                                     | Anonymous        | Aluminum, total   | 7429-90-5  | E420   | 0.0030                            | mg/L | 0.0089          | 0.0092           | 0.0003               | Diff <2x LOR     | ---       |
|   |                  | Antimony, total   | 7440-36-0  | E420   | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ---       |
|   |                  | Arsenic, total    | 7440-38-2  | E420   | 0.00010                           | mg/L | 0.00013         | 0.00012          | 0.000010             | Diff <2x LOR     | ---       |
|   |                  | Barium, total     | 7440-39-3  | E420   | 0.00010                           | mg/L | 0.0199          | 0.0195           | 2.24%                | 20%              | ---       |
|   |                  | Beryllium, total  | 7440-41-7  | E420   | 0.000100                          | mg/L | <0.000100       | <0.000100        | 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 | 0.013           | 0.014            | 0.0002               | Diff <2x LOR     | ---       |
|   |                  | Cadmium, total    | 7440-43-9  | E420   | 0.0000050                         | mg/L | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ---       |
|   |                  | Calcium, total    | 7440-70-2  | E420   | 0.050                             | mg/L | 3.48            | 3.59             | 3.27%                | 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 | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |
|   |                  | Cobalt, total     | 7440-48-4  | E420   | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | 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 | 0.017           | 0.019            | 0.002                | 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 | 0.0012          | 0.0012           | 0.00002              | Diff <2x LOR     | ---       |
|   |                  | Magnesium, total  | 7439-95-4  | E420   | 0.0050                            | mg/L | 3.96            | 3.90             | 1.46%                | 20%              | ---       |
|   |                  | Manganese, total  | 7439-96-5  | E420   | 0.00010                           | mg/L | 0.00471         | 0.00466          | 1.05%                | 20%              | ---       |
|   |                  | Molybdenum, total | 7439-98-7  | E420   | 0.000050                          | mg/L | 0.000076        | 0.000074         | 0.000002             | Diff <2x LOR     | ---       |
|   |                  | Nickel, total     | 7440-02-0  | E420   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |
|   |                  | 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 | 1.18            | 1.19             | 0.458%               | 20%              | ---       |
|   |                  | Rubidium, total   | 7440-17-7  | E420   | 0.00020                           | mg/L | 0.00112         | 0.00105          | 0.00007              | Diff <2x LOR     | ---       |
|   |                  | Selenium, total   | 7782-49-2  | E420   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Silicon, total    | 7440-21-3  | E420   | 0.10                              | mg/L | 0.22            | 0.22             | 0.008                | Diff <2x LOR     | ---       |
|   |                  | 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 | 22.4            | 22.2             | 1.01%                | 20%              | ---       |
|   |                  | Strontium, total  | 7440-24-6  | E420   | 0.00020                           | mg/L | 0.0345          | 0.0365           | 5.57%                | 20%              | ---       |
|   |                  | Sulfur, total     | 7704-34-9  | E420   | 0.50                              | mg/L | 1.97            | 2.04             | 0.08                 | Diff <2x LOR     | ---       |
|   |                  | 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 | <0.00030        | <0.00030         | 0                    | 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 |  |
| <b>Dissolved Metals (QC Lot: 1607968) - continued</b> |                  |                                     |            |        |                                   |      |                 |                  |                      |                  |           |  |
| YL2401193-001   | Anonymous        | Sodium, dissolved                   | 7440-23-5  | E421   | 0.050                             | mg/L | 66.6            | 69.2             | 3.75%                | 20%              | ---       |  |
|   |                  | Strontium, dissolved                | 7440-24-6  | E421   | 0.00020                           | mg/L | 1.33            | 1.35             | 1.64%                | 20%              | ---       |  |
|   |                  | Sulfur, dissolved                   | 7704-34-9  | E421   | 0.50                              | mg/L | 30.8            | 31.6             | 2.23%                | 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 | 0.000046        | 0.000050         | 0.000004             | Diff <2x LOR     | ---       |  |
|   |                  | Thorium, dissolved                  | 7440-29-1  | E421   | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Tin, dissolved                      | 7440-31-5  | E421   | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Titanium, dissolved                 | 7440-32-6  | E421   | 0.00030                           | mg/L | <0.00030        | <0.00030         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Tungsten, dissolved                 | 7440-33-7  | E421   | 0.00010                           | mg/L | 0.00011         | 0.00010          | 0.000005             | Diff <2x LOR     | ---       |  |
|   |                  | Uranium, dissolved                  | 7440-61-1  | E421   | 0.000010                          | mg/L | 0.00123         | 0.00124          | 1.35%                | 20%              | ---       |  |
|   |                  | Vanadium, dissolved                 | 7440-62-2  | E421   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Zinc, dissolved                     | 7440-66-6  | E421   | 0.0010                            | mg/L | 0.0058          | 0.0060           | 0.0003               | Diff <2x LOR     | ---       |  |
| <b>Dissolved Metals (QC Lot: 1619177)</b>             |                  |                                     |            |        |                                   |      |                 |                  |                      |                  |           |  |
| VA24C0773-001   | Anonymous        | Mercury, dissolved                  | 7439-97-6  | E509   | 0.0000050                         | mg/L | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ---       |  |
| <b>Speciated Metals (QC Lot: 1612282)</b>             |                  |                                     |            |        |                                   |      |                 |                  |                      |                  |           |  |
| VA24C0997-001   | Anonymous        | Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532   | 0.00050                           | mg/L | <0.50 µg/L      | <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 |
|---|------------|------------|--------|------|---------|-----------|
| <b>Physical Tests (QC Lot: 1607290)</b>             |            |            |        |      |         |           |
| Alkalinity, total (as CaCO <sub>3</sub> )           | ---        | E290       | 1      | mg/L | <1.0    | ---       |
| <b>Physical Tests (QC Lot: 1614843)</b>             |            |            |        |      |         |           |
| Solids, total suspended [TSS]                       | ---        | E160       | 3      | mg/L | <3.0    | ---       |
| <b>Physical Tests (QC Lot: 1614844)</b>             |            |            |        |      |         |           |
| Solids, total suspended [TSS]                       | ---        | E160       | 3      | mg/L | <3.0    | ---       |
| <b>Physical Tests (QC Lot: 1614852)</b>             |            |            |        |      |         |           |
| Solids, total dissolved [TDS]                       | ---        | E162       | 10     | mg/L | <10     | ---       |
| <b>Physical Tests (QC Lot: 1614853)</b>             |            |            |        |      |         |           |
| Solids, total dissolved [TDS]                       | ---        | E162       | 10     | mg/L | <10     | ---       |
| <b>Anions and Nutrients (QC Lot: 1607282)</b>       |            |            |        |      |         |           |
| Sulfate (as SO <sub>4</sub> )                       | 14808-79-8 | E235.SO4   | 0.3    | mg/L | <0.30   | ---       |
| <b>Anions and Nutrients (QC Lot: 1607283)</b>       |            |            |        |      |         |           |
| Chloride  | 16887-00-6 | E235.Cl    | 0.5    | mg/L | <0.50   | ---       |
| <b>Anions and Nutrients (QC Lot: 1607284)</b>       |            |            |        |      |         |           |
| Nitrate (as N)                                      | 14797-55-8 | E235.NO3-L | 0.005  | mg/L | <0.0050 | ---       |
| <b>Anions and Nutrients (QC Lot: 1607285)</b>       |            |            |        |      |         |           |
| Nitrite (as N)                                      | 14797-65-0 | E235.NO2-L | 0.001  | mg/L | <0.0010 | ---       |
| <b>Anions and Nutrients (QC Lot: 1607286)</b>       |            |            |        |      |         |           |
| Fluoride  | 16984-48-8 | E235.F     | 0.02   | mg/L | <0.020  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607287)</b>       |            |            |        |      |         |           |
| Bromide   | 24959-67-9 | E235.Br-L  | 0.05   | mg/L | <0.050  | ---       |
| <b>Anions and Nutrients (QC Lot: 1614116)</b>       |            |            |        |      |         |           |
| Nitrogen, total                                     | 7727-37-9  | E366       | 0.03   | mg/L | <0.030  | ---       |
| <b>Anions and Nutrients (QC Lot: 1614118)</b>       |            |            |        |      |         |           |
| Ammonia, total (as N)                               | 7664-41-7  | E298       | 0.005  | mg/L | <0.0050 | ---       |
| <b>Anions and Nutrients (QC Lot: 1614122)</b>       |            |            |        |      |         |           |
| Phosphorus, total                                   | 7723-14-0  | E372-U     | 0.002  | mg/L | <0.0020 | ---       |
| <b>Organic / Inorganic Carbon (QC Lot: 1614115)</b> |            |            |        |      |         |           |
| Carbon, dissolved organic [DOC]                     | ---        | E358-L     | 0.5    | mg/L | <0.50   | ---       |
| <b>Total Sulfides (QC Lot: 1612976)</b>             |            |            |        |      |         |           |
| Sulfide, total (as S)                               | 18496-25-8 | E395       | 0.0015 | mg/L | <0.0015 | ---       |
| <b>Total Metals (QC Lot: 1608069)</b>               |            |            |        |      |         |           |



Sub-Matrix: Water

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 1608069) - continued</b> |            |        |          |      |            |           |
| 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   | ---       |
| 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   | ---       |



Sub-Matrix: Water

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 1608069) - continued</b> |            |        |          |      |            |           |
| 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   | ---       |
| <b>Total Metals (QCLot: 1621389)</b>             |            |        |          |      |            |           |
| Mercury, total                                   | 7439-97-6  | E508   | 0.000005 | mg/L | <0.0000050 | ---       |
| <b>Dissolved Metals (QCLot: 1607968)</b>         |            |        |          |      |            |           |
| 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   | ---       |



Sub-Matrix: Water

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Dissolved Metals (QCLot: 1607968) - continued</b> |            |        |          |      |            |           |
| 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   | ---       |
| 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   | ---       |
| <b>Dissolved Metals (QCLot: 1619177)</b>             |            |        |          |      |            |           |
| Mercury, dissolved                                   | 7439-97-6  | E509   | 0.000005 | mg/L | <0.0000050 | ---       |
| <b>Speciated Metals (QCLot: 1612282)</b>             |            |        |          |      |            |           |
| 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

| Analyte   | CAS Number | Method     | LOR   | Unit | Laboratory Control Sample (LCS) Report |              |                     |     |           |
|---|------------|------------|-------|------|--|--------------|---------------------|-----|-----------|
|   |            |            |       |      | Spike                                  | Recovery (%) | Recovery Limits (%) |     | Qualifier |
| <b>Physical Tests (QCLot: 1607290)</b>              |            |            |       |      |  |              |                     |     |           |
| Alkalinity, total (as CaCO <sub>3</sub> )           | ---        | E290       | 1     | mg/L | 500 mg/L                               | 104          | 85.0                | 115 | ---       |
| <b>Physical Tests (QC Lot: 1614843)</b>             |            |            |       |      |  |              |                     |     |           |
| Solids, total suspended [TSS]                       | ---        | E160       | 3     | mg/L | 150 mg/L                               | 85.5         | 85.0                | 115 | ---       |
| <b>Physical Tests (QC Lot: 1614844)</b>             |            |            |       |      |  |              |                     |     |           |
| Solids, total suspended [TSS]                       | ---        | E160       | 3     | mg/L | 150 mg/L                               | 87.2         | 85.0                | 115 | ---       |
| <b>Physical Tests (QC Lot: 1614852)</b>             |            |            |       |      |  |              |                     |     |           |
| Solids, total dissolved [TDS]                       | ---        | E162       | 10    | mg/L | 1000 mg/L                              | 103          | 85.0                | 115 | ---       |
| <b>Physical Tests (QC Lot: 1614853)</b>             |            |            |       |      |  |              |                     |     |           |
| Solids, total dissolved [TDS]                       | ---        | E162       | 10    | mg/L | 1000 mg/L                              | 103          | 85.0                | 115 | ---       |
| <b>Anions and Nutrients (QC Lot: 1607282)</b>       |            |            |       |      |  |              |                     |     |           |
| Sulfate (as SO <sub>4</sub> )                       | 14808-79-8 | E235.SO4   | 0.3   | mg/L | 100 mg/L                               | 102          | 90.0                | 110 | ---       |
| <b>Anions and Nutrients (QC Lot: 1607283)</b>       |            |            |       |      |  |              |                     |     |           |
| Chloride  | 16887-00-6 | E235.Cl    | 0.5   | mg/L | 100 mg/L                               | 101          | 90.0                | 110 | ---       |
| <b>Anions and Nutrients (QC Lot: 1607284)</b>       |            |            |       |      |  |              |                     |     |           |
| Nitrate (as N)                                      | 14797-55-8 | E235.NO3-L | 0.005 | mg/L | 2.5 mg/L                               | 102          | 90.0                | 110 | ---       |
| <b>Anions and Nutrients (QC Lot: 1607285)</b>       |            |            |       |      |  |              |                     |     |           |
| Nitrite (as N)                                      | 14797-65-0 | E235.NO2-L | 0.001 | mg/L | 0.5 mg/L                               | 98.7         | 90.0                | 110 | ---       |
| <b>Anions and Nutrients (QC Lot: 1607286)</b>       |            |            |       |      |  |              |                     |     |           |
| Fluoride  | 16984-48-8 | E235.F     | 0.02  | mg/L | 1 mg/L                                 | 100          | 90.0                | 110 | ---       |
| <b>Anions and Nutrients (QC Lot: 1607287)</b>       |            |            |       |      |  |              |                     |     |           |
| Bromide   | 24959-67-9 | E235.Br-L  | 0.05  | mg/L | 0.5 mg/L                               | 107          | 85.0                | 115 | ---       |
| <b>Anions and Nutrients (QC Lot: 1614116)</b>       |            |            |       |      |  |              |                     |     |           |
| Nitrogen, total                                     | 7727-37-9  | E366       | 0.03  | mg/L | 0.5 mg/L                               | 98.7         | 75.0                | 125 | ---       |
| <b>Anions and Nutrients (QC Lot: 1614118)</b>       |            |            |       |      |  |              |                     |     |           |
| Ammonia, total (as N)                               | 7664-41-7  | E298       | 0.005 | mg/L | 0.2 mg/L                               | 106          | 85.0                | 115 | ---       |
| <b>Anions and Nutrients (QC Lot: 1614122)</b>       |            |            |       |      |  |              |                     |     |           |
| Phosphorus, total                                   | 7723-14-0  | E372-U     | 0.002 | mg/L | 0.05 mg/L                              | 95.0         | 80.0                | 120 | ---       |
| <b>Organic / Inorganic Carbon (QC Lot: 1614115)</b> |            |            |       |      |  |              |                     |     |           |
| Carbon, dissolved organic [DOC]                     | ---        | E358-L     | 0.5   | mg/L | 8.57 mg/L                              | 100          | 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 |
| <b>Total Sulfides (QCLot: 1612976)</b> |            |        |          |      |  |              |                     |      |           |
| Sulfide, total (as S)                  | 18496-25-8 | E395   | 0.0015   | mg/L | 0.08 mg/L                              | 102          | 80.0                | 120  | ---       |
| <b>Total Metals (QCLot: 1608069)</b>   |            |        |          |      |  |              |                     |      |           |
| 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                                 | 110          | 80.0                | 120  | ---       |
| Arsenic, total                         | 7440-38-2  | E420   | 0.0001   | mg/L | 1 mg/L                                 | 107          | 80.0                | 120  | ---       |
| Barium, total                          | 7440-39-3  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 102          | 80.0                | 120  | ---       |
| Beryllium, total                       | 7440-41-7  | E420   | 0.00002  | mg/L | 0.1 mg/L                               | 95.0         | 80.0                | 120  | ---       |
| Bismuth, total                         | 7440-69-9  | E420   | 0.00005  | mg/L | 1 mg/L                                 | 105          | 80.0                | 120  | ---       |
| Boron, total                           | 7440-42-8  | E420   | 0.01     | mg/L | 1 mg/L                                 | 92.3         | 80.0                | 120  | ---       |
| Cadmium, total                         | 7440-43-9  | E420   | 0.000005 | mg/L | 0.1 mg/L                               | 103          | 80.0                | 120  | ---       |
| Calcium, total                         | 7440-70-2  | E420   | 0.05     | mg/L | 50 mg/L                                | 100          | 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                              | 98.5         | 80.0                | 120  | ---       |
| Cobalt, total                          | 7440-48-4  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 101          | 80.0                | 120  | ---       |
| Copper, total                          | 7440-50-8  | E420   | 0.0005   | mg/L | 0.25 mg/L                              | 99.5         | 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                               | 108          | 80.0                | 120  | ---       |
| Lithium, total                         | 7439-93-2  | E420   | 0.001    | mg/L | 0.25 mg/L                              | 95.8         | 80.0                | 120  | ---       |
| Magnesium, total                       | 7439-95-4  | E420   | 0.005    | mg/L | 50 mg/L                                | 109          | 80.0                | 120  | ---       |
| Manganese, total                       | 7439-96-5  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 103          | 80.0                | 120  | ---       |
| Molybdenum, total                      | 7439-98-7  | E420   | 0.00005  | mg/L | 0.25 mg/L                              | 104          | 80.0                | 120  | ---       |
| Nickel, total                          | 7440-02-0  | E420   | 0.0005   | mg/L | 0.5 mg/L                               | 99.7         | 80.0                | 120  | ---       |
| Phosphorus, total                      | 7723-14-0  | E420   | 0.05     | mg/L | 10 mg/L                                | 98.3         | 80.0                | 120  | ---       |
| Potassium, total                       | 7440-09-7  | E420   | 0.05     | mg/L | 50 mg/L                                | 97.7         | 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                                 | 99.8         | 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                               | 95.8         | 80.0                | 120  | ---       |
| Sodium, total                          | 7440-23-5  | E420   | 0.05     | mg/L | 50 mg/L                                | 106          | 80.0                | 120  | ---       |
| Strontium, total                       | 7440-24-6  | E420   | 0.0002   | mg/L | 0.25 mg/L                              | 104          | 80.0                | 120  | ---       |
| Sulfur, total                          | 7704-34-9  | E420   | 0.5      | mg/L | 50 mg/L                                | 88.7         | 80.0                | 120  | ---       |
| Tellurium, total                       | 13494-80-9 | E420   | 0.0002   | mg/L | 0.1 mg/L                               | 109          | 80.0                | 120  | ---       |
| Thallium, total                        | 7440-28-0  | E420   | 0.00001  | mg/L | 1 mg/L                                 | 106          | 80.0                | 120  | ---       |
| Thorium, total                         | 7440-29-1  | E420   | 0.0001   | mg/L | 0.1 mg/L                               | 106          | 80.0                | 120  | ---       |
| Tin, total                             | 7440-31-5  | E420   | 0.0001   | mg/L | 0.5 mg/L                               | 103          | 80.0                | 120  | ---       |

### Sub-Matrix: Water

| Analyte  | CAS Number | Method | LOR      | Unit | Laboratory Control Sample (LCS) Report |              |                     |     |           |
|--|------------|--------|----------|------|--|--------------|---------------------|-----|-----------|
|  |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |     | Qualifier |
| <b>Total Metals (QCLot: 1608069) - continued</b> |            |        |          |      |  |              |                     |     |           |
| Titanium, total                                  | 7440-32-6  | E420   | 0.0003   | mg/L | 0.25 mg/L                              | 98.2         | 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                             | 112          | 80.0                | 120 | ---       |
| Vanadium, total                                  | 7440-62-2  | E420   | 0.0005   | mg/L | 0.5 mg/L                               | 102          | 80.0                | 120 | ---       |
| Zinc, total                                      | 7440-66-6  | E420   | 0.003    | mg/L | 0.5 mg/L                               | 101          | 80.0                | 120 | ---       |
| Zirconium, total                                 | 7440-67-7  | E420   | 0.0002   | mg/L | 0.1 mg/L                               | 105          | 80.0                | 120 | ---       |
| <b>Total Metals (QCLot: 1621389)</b>             |            |        |          |      |  |              |                     |     |           |
| Mercury, total                                   | 7439-97-6  | E508   | 0.000005 | mg/L | 0 mg/L                                 | 101          | 80.0                | 120 | ---       |
| <b>Dissolved Metals (QCLot: 1607968)</b>         |            |        |          |      |  |              |                     |     |           |
| Aluminum, dissolved                              | 7429-90-5  | E421   | 0.001    | mg/L | 2 mg/L                                 | 96.1         | 80.0                | 120 | ---       |
| Antimony, dissolved                              | 7440-36-0  | E421   | 0.0001   | mg/L | 1 mg/L                                 | 100          | 80.0                | 120 | ---       |
| Arsenic, dissolved                               | 7440-38-2  | E421   | 0.0001   | mg/L | 1 mg/L                                 | 100          | 80.0                | 120 | ---       |
| Barium, dissolved                                | 7440-39-3  | E421   | 0.0001   | mg/L | 0.25 mg/L                              | 104          | 80.0                | 120 | ---       |
| Beryllium, dissolved                             | 7440-41-7  | E421   | 0.00002  | mg/L | 0.1 mg/L                               | 99.6         | 80.0                | 120 | ---       |
| Bismuth, dissolved                               | 7440-69-9  | E421   | 0.00005  | mg/L | 1 mg/L                                 | 96.4         | 80.0                | 120 | ---       |
| Boron, dissolved                                 | 7440-42-8  | E421   | 0.01     | mg/L | 1 mg/L                                 | 91.8         | 80.0                | 120 | ---       |
| Cadmium, dissolved                               | 7440-43-9  | E421   | 0.000005 | mg/L | 0.1 mg/L                               | 97.3         | 80.0                | 120 | ---       |
| Calcium, dissolved                               | 7440-70-2  | E421   | 0.05     | mg/L | 50 mg/L                                | 102          | 80.0                | 120 | ---       |
| Cesium, dissolved                                | 7440-46-2  | E421   | 0.00001  | mg/L | 0.05 mg/L                              | 97.0         | 80.0                | 120 | ---       |
| Chromium, dissolved                              | 7440-47-3  | E421   | 0.0005   | mg/L | 0.25 mg/L                              | 97.0         | 80.0                | 120 | ---       |
| Cobalt, dissolved                                | 7440-48-4  | E421   | 0.0001   | mg/L | 0.25 mg/L                              | 94.6         | 80.0                | 120 | ---       |
| Copper, dissolved                                | 7440-50-8  | E421   | 0.0002   | mg/L | 0.25 mg/L                              | 96.1         | 80.0                | 120 | ---       |
| Iron, dissolved                                  | 7439-89-6  | E421   | 0.01     | mg/L | 1 mg/L                                 | 91.2         | 80.0                | 120 | ---       |
| Lead, dissolved                                  | 7439-92-1  | E421   | 0.00005  | mg/L | 0.5 mg/L                               | 98.4         | 80.0                | 120 | ---       |
| Lithium, dissolved                               | 7439-93-2  | E421   | 0.001    | mg/L | 0.25 mg/L                              | 97.1         | 80.0                | 120 | ---       |
| Magnesium, dissolved                             | 7439-95-4  | E421   | 0.005    | mg/L | 50 mg/L                                | 93.5         | 80.0                | 120 | ---       |
| Manganese, dissolved                             | 7439-96-5  | E421   | 0.0001   | mg/L | 0.25 mg/L                              | 95.6         | 80.0                | 120 | ---       |
| Molybdenum, dissolved                            | 7439-98-7  | E421   | 0.00005  | mg/L | 0.25 mg/L                              | 103          | 80.0                | 120 | ---       |
| Nickel, dissolved                                | 7440-02-0  | E421   | 0.0005   | mg/L | 0.5 mg/L                               | 97.0         | 80.0                | 120 | ---       |
| Phosphorus, dissolved                            | 7723-14-0  | E421   | 0.05     | mg/L | 10 mg/L                                | 104          | 80.0                | 120 | ---       |
| Potassium, dissolved                             | 7440-09-7  | E421   | 0.05     | mg/L | 50 mg/L                                | 96.2         | 80.0                | 120 | ---       |
| Rubidium, dissolved                              | 7440-17-7  | E421   | 0.0002   | mg/L | 0.1 mg/L                               | 97.2         | 80.0                | 120 | ---       |
| Selenium, dissolved                              | 7782-49-2  | E421   | 0.00005  | mg/L | 1 mg/L                                 | 99.8         | 80.0                | 120 | ---       |
| Silicon, dissolved                               | 7440-21-3  | E421   | 0.05     | mg/L | 10 mg/L                                | 103          | 80.0                | 120 | ---       |
| Silver, dissolved                                | 7440-22-4  | E421   | 0.00001  | mg/L | 0.1 mg/L                               | 93.8         | 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 |  |
| <b>Dissolved Metals (QC Lot: 1607968) - continued</b> |            |        |          |      |  |              |                     |      |           |  |
| Sodium, dissolved                                     | 7440-23-5  | E421   | 0.05     | mg/L | 50 mg/L                                | 98.0         | 80.0                | 120  | ----      |  |
| Strontium, dissolved                                  | 7440-24-6  | E421   | 0.0002   | mg/L | 0.25 mg/L                              | 103          | 80.0                | 120  | ----      |  |
| Sulfur, dissolved                                     | 7704-34-9  | E421   | 0.5      | mg/L | 50 mg/L                                | 86.5         | 80.0                | 120  | ----      |  |
| Tellurium, dissolved                                  | 13494-80-9 | E421   | 0.0002   | mg/L | 0.1 mg/L                               | 99.5         | 80.0                | 120  | ----      |  |
| Thallium, dissolved                                   | 7440-28-0  | E421   | 0.00001  | mg/L | 1 mg/L                                 | 96.8         | 80.0                | 120  | ----      |  |
| Thorium, dissolved                                    | 7440-29-1  | E421   | 0.0001   | mg/L | 0.1 mg/L                               | 96.8         | 80.0                | 120  | ----      |  |
| Tin, dissolved  | 7440-31-5  | E421   | 0.0001   | mg/L | 0.5 mg/L                               | 98.3         | 80.0                | 120  | ----      |  |
| Titanium, dissolved                                   | 7440-32-6  | E421   | 0.0003   | mg/L | 0.25 mg/L                              | 91.8         | 80.0                | 120  | ----      |  |
| Tungsten, dissolved                                   | 7440-33-7  | E421   | 0.0001   | mg/L | 0.1 mg/L                               | 99.6         | 80.0                | 120  | ----      |  |
| Uranium, dissolved                                    | 7440-61-1  | E421   | 0.00001  | mg/L | 0.005 mg/L                             | 95.2         | 80.0                | 120  | ----      |  |
| Vanadium, dissolved                                   | 7440-62-2  | E421   | 0.0005   | mg/L | 0.5 mg/L                               | 97.2         | 80.0                | 120  | ----      |  |
| Zinc, dissolved                                       | 7440-66-6  | E421   | 0.001    | mg/L | 0.5 mg/L                               | 94.7         | 80.0                | 120  | ----      |  |
| Zirconium, dissolved                                  | 7440-67-7  | E421   | 0.0002   | mg/L | 0.1 mg/L                               | 99.8         | 80.0                | 120  | ----      |  |
| Mercury, dissolved                                    | 7439-97-6  | E509   | 0.000005 | mg/L | 0 mg/L                                 | 96.8         | 80.0                | 120  | ----      |  |
| <b>Speciated Metals (QC Lot: 1612282)</b>             |            |        |          |      |  |              |                     |      |           |  |
| Chromium, hexavalent [Cr VI], total                   | 18540-29-9 | E532   | 0.0005   | mg/L | 0.025 mg/L                             | 97.5         | 80.0                | 120  | ----      |  |





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 |           |
| <b>Total Metals (QC Lot: 1608069) - continued</b> |                  |                      |            |        |                          |            |              |                     |      |           |
| VA24C1018-002                                     | Anonymous        | Cobalt, total        | 7440-48-4  | E420   | 0.0197 mg/L              | 0.02 mg/L  | 98.6         | 70.0                | 130  | ---       |
|   |                  | Copper, total        | 7440-50-8  | E420   | 0.0194 mg/L              | 0.02 mg/L  | 97.0         | 70.0                | 130  | ---       |
|   |                  | Iron, total          | 7439-89-6  | E420   | 2.00 mg/L                | 2 mg/L     | 99.8         | 70.0                | 130  | ---       |
|   |                  | Lead, total          | 7439-92-1  | E420   | 0.0206 mg/L              | 0.02 mg/L  | 103          | 70.0                | 130  | ---       |
|   |                  | Lithium, total       | 7439-93-2  | E420   | 0.0875 mg/L              | 0.1 mg/L   | 87.5         | 70.0                | 130  | ---       |
|   |                  | Magnesium, total     | 7439-95-4  | E420   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|   |                  | Manganese, total     | 7439-96-5  | E420   | 0.0199 mg/L              | 0.02 mg/L  | 99.4         | 70.0                | 130  | ---       |
|   |                  | Molybdenum, total    | 7439-98-7  | E420   | 0.0203 mg/L              | 0.02 mg/L  | 101          | 70.0                | 130  | ---       |
|   |                  | Nickel, total        | 7440-02-0  | E420   | 0.0388 mg/L              | 0.04 mg/L  | 97.0         | 70.0                | 130  | ---       |
|   |                  | Phosphorus, total    | 7723-14-0  | E420   | 8.96 mg/L                | 10 mg/L    | 89.6         | 70.0                | 130  | ---       |
|   |                  | Potassium, total     | 7440-09-7  | E420   | 3.78 mg/L                | 4 mg/L     | 94.5         | 70.0                | 130  | ---       |
|   |                  | Rubidium, total      | 7440-17-7  | E420   | 0.0192 mg/L              | 0.02 mg/L  | 96.0         | 70.0                | 130  | ---       |
|   |                  | Selenium, total      | 7782-49-2  | E420   | 0.0406 mg/L              | 0.04 mg/L  | 101          | 70.0                | 130  | ---       |
|   |                  | Silicon, total       | 7440-21-3  | E420   | 9.71 mg/L                | 10 mg/L    | 97.1         | 70.0                | 130  | ---       |
|   |                  | Silver, total        | 7440-22-4  | E420   | 0.00406 mg/L             | 0.004 mg/L | 101          | 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   | 20.2 mg/L                | 20 mg/L    | 101          | 70.0                | 130  | ---       |
|   |                  | Tellurium, total     | 13494-80-9 | E420   | 0.0416 mg/L              | 0.04 mg/L  | 104          | 70.0                | 130  | ---       |
|   |                  | Thallium, total      | 7440-28-0  | E420   | 0.00389 mg/L             | 0.004 mg/L | 97.3         | 70.0                | 130  | ---       |
|   |                  | Thorium, total       | 7440-29-1  | E420   | 0.0204 mg/L              | 0.02 mg/L  | 102          | 70.0                | 130  | ---       |
|   |                  | Tin, total           | 7440-31-5  | E420   | 0.0198 mg/L              | 0.02 mg/L  | 99.3         | 70.0                | 130  | ---       |
|   |                  | Titanium, total      | 7440-32-6  | E420   | 0.0379 mg/L              | 0.04 mg/L  | 94.6         | 70.0                | 130  | ---       |
|   |                  | Tungsten, total      | 7440-33-7  | E420   | 0.0199 mg/L              | 0.02 mg/L  | 99.4         | 70.0                | 130  | ---       |
|   |                  | Uranium, total       | 7440-61-1  | E420   | 0.00426 mg/L             | 0.004 mg/L | 106          | 70.0                | 130  | ---       |
|   |                  | Vanadium, total      | 7440-62-2  | E420   | 0.0993 mg/L              | 0.1 mg/L   | 99.3         | 70.0                | 130  | ---       |
|   |                  | Zinc, total          | 7440-66-6  | E420   | 0.399 mg/L               | 0.4 mg/L   | 99.8         | 70.0                | 130  | ---       |
|   |                  | Zirconium, total     | 7440-67-7  | E420   | 0.0417 mg/L              | 0.04 mg/L  | 104          | 70.0                | 130  | ---       |
| <b>Total Metals (QC Lot: 1621389)</b>             |                  |                      |            |        |                          |            |              |                     |      |           |
| VA24C0950-001                                     | Anonymous        | Mercury, total       | 7439-97-6  | E508   | 0.0000771 mg/L           | 0 mg/L     | 77.1         | 70.0                | 130  | ---       |
| <b>Dissolved Metals (QC Lot: 1607968)</b>         |                  |                      |            |        |                          |            |              |                     |      |           |
| VA24C1021-006                                     | Anonymous        | Aluminum, dissolved  | 7429-90-5  | E421   | 0.213 mg/L               | 0.2 mg/L   | 106          | 70.0                | 130  | ---       |
|   |                  | Antimony, dissolved  | 7440-36-0  | E421   | 0.0196 mg/L              | 0.02 mg/L  | 98.0         | 70.0                | 130  | ---       |
|   |                  | Arsenic, dissolved   | 7440-38-2  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|   |                  | Barium, dissolved    | 7440-39-3  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|   |                  | Beryllium, dissolved | 7440-41-7  | E421   | 0.0388 mg/L              | 0.04 mg/L  | 96.9         | 70.0                | 130  | ---       |
|   |                  | Bismuth, dissolved   | 7440-69-9  | E421   | 0.00873 mg/L             | 0.01 mg/L  | 87.3         | 70.0                | 130  | ---       |
|   |                  | Boron, dissolved     | 7440-42-8  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|   |                  | Cadmium, dissolved   | 7440-43-9  | E421   | 0.00392 mg/L             | 0.004 mg/L | 98.1         | 70.0                | 130  | ---       |
|   |                  | Calcium, dissolved   | 7440-70-2  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|   |                  | Cesium, dissolved    | 7440-46-2  | E421   | 0.00990 mg/L             | 0.01 mg/L  | 99.0         | 70.0                | 130  | ---       |
|   |                  | Chromium, dissolved  | 7440-47-3  | E421   | 0.0383 mg/L              | 0.04 mg/L  | 95.8         | 70.0                | 130  | ---       |
|   |                  | Cobalt, dissolved    | 7440-48-4  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |



Sub-Matrix: Water

|  |                  |                                     |            |        | Matrix Spike (MS) Report |            |              |                     |      |           |
|--|------------------|-------------------------------------|------------|--------|--------------------------|------------|--------------|---------------------|------|-----------|
| Laboratory sample ID                                 | Client sample ID | Analyte                             | CAS Number | Method | Spike                    |            | Recovery (%) | Recovery Limits (%) |      | Qualifier |
|  |                  |                                     |            |        | Concentration            | Target     |              | Low                 | High |           |
| <b>Dissolved Metals (QCLot: 1607968) - continued</b> |                  |                                     |            |        |                          |            |              |                     |      |           |
| VA24C1021-006  | Anonymous        | Copper, dissolved                   | 7440-50-8  | E421   | 0.0183 mg/L              | 0.02 mg/L  | 91.3         | 70.0                | 130  | ---       |
|  |                  | Iron, dissolved                     | 7439-89-6  | E421   | 1.88 mg/L                | 2 mg/L     | 94.1         | 70.0                | 130  | ---       |
|  |                  | Lead, dissolved                     | 7439-92-1  | E421   | 0.0180 mg/L              | 0.02 mg/L  | 89.8         | 70.0                | 130  | ---       |
|  |                  | Lithium, dissolved                  | 7439-93-2  | E421   | 0.0941 mg/L              | 0.1 mg/L   | 94.1         | 70.0                | 130  | ---       |
|  |                  | Magnesium, dissolved                | 7439-95-4  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|  |                  | Manganese, dissolved                | 7439-96-5  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|  |                  | Molybdenum, dissolved               | 7439-98-7  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|  |                  | Nickel, dissolved                   | 7440-02-0  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|  |                  | Phosphorus, dissolved               | 7723-14-0  | E421   | 10.5 mg/L                | 10 mg/L    | 105          | 70.0                | 130  | ---       |
|  |                  | Potassium, dissolved                | 7440-09-7  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|  |                  | Rubidium, dissolved                 | 7440-17-7  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|  |                  | Selenium, dissolved                 | 7782-49-2  | E421   | 0.0390 mg/L              | 0.04 mg/L  | 97.5         | 70.0                | 130  | ---       |
|  |                  | Silicon, dissolved                  | 7440-21-3  | E421   | 9.71 mg/L                | 10 mg/L    | 97.1         | 70.0                | 130  | ---       |
|  |                  | Silver, dissolved                   | 7440-22-4  | E421   | 0.00391 mg/L             | 0.004 mg/L | 97.7         | 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   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|  |                  | Tellurium, dissolved                | 13494-80-9 | E421   | 0.0436 mg/L              | 0.04 mg/L  | 109          | 70.0                | 130  | ---       |
|  |                  | Thallium, dissolved                 | 7440-28-0  | E421   | 0.00354 mg/L             | 0.004 mg/L | 88.4         | 70.0                | 130  | ---       |
|  |                  | Thorium, dissolved                  | 7440-29-1  | E421   | 0.0185 mg/L              | 0.02 mg/L  | 92.6         | 70.0                | 130  | ---       |
|  |                  | Tin, dissolved                      | 7440-31-5  | E421   | 0.0199 mg/L              | 0.02 mg/L  | 99.6         | 70.0                | 130  | ---       |
|  |                  | Titanium, dissolved                 | 7440-32-6  | E421   | 0.0395 mg/L              | 0.04 mg/L  | 98.7         | 70.0                | 130  | ---       |
|  |                  | Tungsten, dissolved                 | 7440-33-7  | E421   | 0.0193 mg/L              | 0.02 mg/L  | 96.6         | 70.0                | 130  | ---       |
|  |                  | Uranium, dissolved                  | 7440-61-1  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |
|  |                  | Vanadium, dissolved                 | 7440-62-2  | E421   | 0.103 mg/L               | 0.1 mg/L   | 103          | 70.0                | 130  | ---       |
|  |                  | Zinc, dissolved                     | 7440-66-6  | E421   | 0.373 mg/L               | 0.4 mg/L   | 93.3         | 70.0                | 130  | ---       |
|  |                  | Zirconium, dissolved                | 7440-67-7  | E421   | 0.0429 mg/L              | 0.04 mg/L  | 107          | 70.0                | 130  | ---       |
| <b>Dissolved Metals (QCLot: 1619177)</b>             |                  |                                     |            |        |                          |            |              |                     |      |           |
| VA24C0773-002  | Anonymous        | Mercury, dissolved                  | 7439-97-6  | E509   | 0.0000954 mg/L           | 0 mg/L     | 95.4         | 70.0                | 130  | ---       |
| <b>Speciated Metals (QCLot: 1612282)</b>             |                  |                                     |            |        |                          |            |              |                     |      |           |
| VA24C0997-001  | Anonymous        | Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532   | 0.0388 mg/L              | 0.04 mg/L  | 97.0         | 70.0                | 130  | ---       |



Environmental Division  
Vancouver  
Work Order Reference  
**VA24C1037**

**(COC) / Analytical Form**

1 800 668 9878

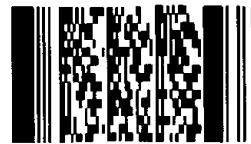
Affix ALS barcode label here

(lab use only)

COC Number: 17 -

Page 1 of

|                |                      |
|----------------|----------------------|
| Report To      | Contact and company  |
| Company:       | Triton Environmental |
| Contact:       | [Redacted]           |
| Phone:         | [Redacted]           |
| Street:        | [Redacted]           |
| City/Province: | [Redacted]           |
| Postal Code:   | [Redacted]           |



Telephone : +1 604 253 4188

Invoice To Same as Report To  YES  NO

Copy of Invoice with Report  YES  NO

Company: [Redacted]

Contact: [Redacted]

**Project Information**

ALS Account # / Quote #: VA23-TRIT100-012

Job #: 11964

PO / AFE: 11964 - Task 20 - Phase 3C-4C

LSD:

ALS Lab Work Order #: (lab use only): **1037**

**Oil and Gas Required Fields (client use)**

AFE/Cost Center:

PO#

Major/Minor Code:

Routing Code:

Requisitioner:

Location:

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

Total metals + mercury

Dissolved metals + mercury

Total hexavalent chromium

Total trivalent chromium

TSS

TDS

Nutrients (ammonia, ammonium, total nitrogen, total phosphorus) (as H<sub>2</sub>S)

Total sulfide (low) (as H<sub>2</sub>S)

Unionized Sulfide (low)

Anions scan (Br, Cl, F, NO<sub>2</sub>, NO<sub>3</sub>, SO<sub>4</sub>)

General parameters (alkalinity)

DOC

SAMPLES ON HOLD

Sample is hazardous (please provide further details)

NUMBER OF CONTAINERS

SQU US 1

pH: 6.9 cond: 49 µS/cm temp: 22.5 °C

SQU DS 1

pH: 7.0 cond: 31 µS/cm temp: 12.8 °C

Duplicate

Field Blank

Trip Blank

**Drinking Water (DW) Samples<sup>1</sup> (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?

NO

Are samples for human consumption/ use?

NO

:LEASE (client use)

Aug 19, 2024

Time:  
13:14

Received by:

INITIAL SHIPMENT/RECEPTION (lab use only)

Date:

Time:

Received by:

FINAL SHIPMENT/RECEPTION (lab use only)

RK

Date:

8/19/24

Time:  
13:15

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.

|   |  |   |
|---|--|---|
|  <b>FORTIS BC™</b> | <b>Eagle Mountain - Woodfibre Gas Pipeline Project</b> | <b>Aug. 19<sup>th</sup> to Aug. 25<sup>th</sup>, 2024</b> |
|   | Report #   | 22  |
|   | Appendix B   | B-4   |

## BCR Site Receiving Environment Field Notes and Logs

|                            |                   |                            |   |           |
|----------------------------|-------------------|----------------------------|---|-----------|
| <b>Project Component:</b>  | Tunnel            | <b>Site Name:</b>          | Receiving Environment - Downstream of Discharge |           |
| <b>Inspection Date:</b>    | 08/19/2024        | <b>Location:</b>           | BC Rail Site                                    |           |
| <b>Triton QP:</b>          | Stephanie Renkers | <b>Latitude/Longitude:</b> |   |           |
| <b>Temperature(c):</b>     | Low 12            | High 22                    | <b>Permit:</b>                                  | AE 111824 |
| <b>Weather Conditions:</b> | Clear             | <b>Ground Conditions:</b>  | Damp  |           |

**Observations**

**Time:** 10:52:00      **Flow Volume (visual):** high

**Notes:** Conductivity: 31 uS/cm

**Odour Detected?:** No      **Notes:**

**Unusual Colour?** No      **Notes:**

**Unusual Observations?** No      **Notes:**

**Sheen on Water?** No      **Notes:**

**Samples Collected - Parameters**

|                                   |     |   |     |  |
|-----------------------------------|-----|---|-----|--|
| <b>Total Metals + Mercury</b>     | Yes | <b>General Parameters (Alkalinity)</b>  | Yes | <b>Other Sample:</b>                                   |
| <b>Dissolved Metals + Mercury</b> | Yes | <b>Total Sulfide, Unionized Sulfide</b> | Yes | Total hexavalent chromium and total trivalent chromium |
| <b>TSS</b>                        | Yes | <b>Anions</b>                           | Yes |  |
| <b>TDS</b>                        | Yes | <b>Total Trivalent Chromium</b>         | Yes | <b>QA Samples:</b> No                                  |
| <b>Nutrients</b>                  | Yes | <b>VOC/VPH</b>                          | No  | Total hexavalent chromium and total trivalent chromium |
| <b>DOC</b>                        | Yes | <b>EPH, PAH, LEPH/HEPH</b>              | No  |  |
|                                   |     | <b>Trout LC50</b>                       | No  |  |

**Logger Maintenance**

|                                      |    |   |     |
|--------------------------------------|----|---|-----|
| <b>Logger Maintenance Performed?</b> | No | <b>Photo of COC with Lab Signature?</b> | Yes |
|--------------------------------------|----|---|-----|

**Describe Logger Maintenance**

Photos



**Photo:** 1

**Location:** SQU DS1

**Description:** Up view



**Photo:** 2

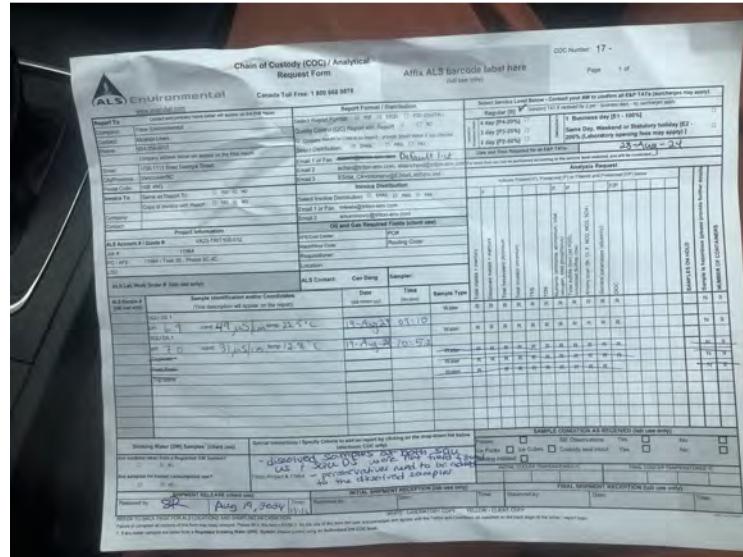
**Location:** SQU DS1

**Description:** Across view

**Photos**



**Photo:** 3  
**Location:** SQU DS1  
**Description:** Down view



**Photo:** 4  
**Location:** SQU DS1  
**Description:** Signed lab COC

**Sign Off**

**Report Prepared By:** Stephanie Renkers

**Report Reviewed:** Yes

**Report Reviewer:**

**Professional(s) of Record:**

**Name:**

**Designation:**

**Designation Number:**

|                            |                   |                            |   |
|----------------------------|-------------------|----------------------------|---|
| <b>Project Component:</b>  | Tunnel            | <b>Site Name:</b>          | Receiving Environment - Upstream of Discharge |
| <b>Inspection Date:</b>    | 08/19/2024        | <b>Location:</b>           | BC Rail Site                                  |
| <b>Triton QP:</b>          | Stephanie Renkers | <b>Latitude/Longitude:</b> | 49.726866 -123.163912                         |
| <b>Temperature(c):</b>     | Low 12            | <b>High 22</b>             | <b>Permit:</b> AE 111824                      |
| <b>Weather Conditions:</b> | Clear             | <b>Ground Conditions:</b>  | Damp  |

**Observations**

**Time:** 09:10:00      **Flow Volume (visual):** high

**Notes:** Conductivity: 49 uS/cm

Troubleshooting sonde (i.e., battery and telemetry communication problem); see logger maintenance notes for details.

**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 | <b>Other Sample:</b>  |
| Dissolved Metals + Mercury | Yes | Total Sulfide, Unionized Sulfide | Yes | Total hexavalent chromium and total trivalent chromium                          |
| TSS                        | Yes | Anions                           | Yes |   |
| TDS                        | Yes | Total Trivalent Chromium         | Yes | <b>QA Samples:</b> No<br>Total hexavalent chromium and total trivalent chromium |
| Nutrients                  | Yes | VOC/VPH                          | No  |   |
| DOC                        | Yes | EPH, PAH, LEPH/HEPH              | No  |   |
|                            |     | Trout LC50                       | No  |   |

**Logger Maintenance**

|                                      |     |   |     |
|--------------------------------------|-----|---|-----|
| <b>Logger Maintenance Performed?</b> | Yes | <b>Photo of COC with Lab Signature?</b> | Yes |
|--------------------------------------|-----|---|-----|

**Describe Logger Maintenance**

Fortis BC crew was able to retrieve sonde from the Squamish River. Reinstalled weight and swapped sensors in sonde. Began calibration, however, battery was not showing a charge. Tried troubleshooting, and even installed new batteries, but sonde is not currently sending readings to website.

Photos



**Photo:**

1

**Location:**

SQU US1

**Description:**

Up view



**Photo:**

2

**Location:**

SQU US1

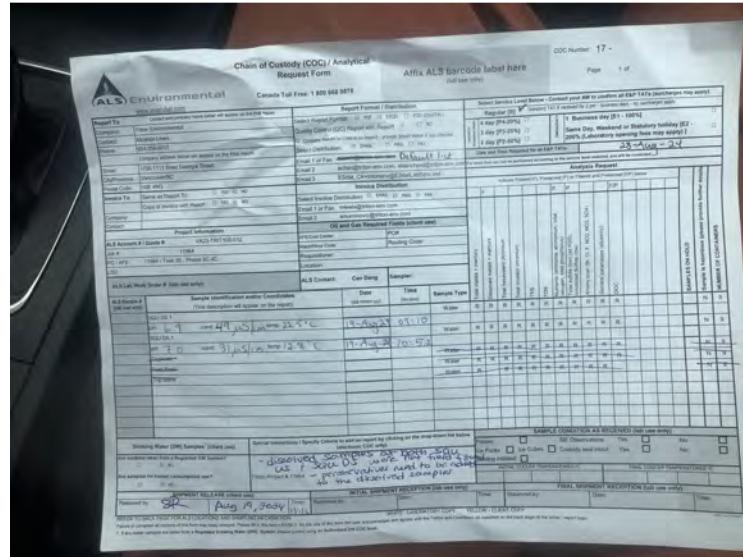
**Description:**

Across view

**Photos**



- Photo:** 3  
**Location:** SQU US1  
**Description:** Down view



- Photo:** 4  
**Location:** SQU US1  
**Description:** Signed lab COC

**Sign Off**

**Report Prepared By:** Stephanie Renkers

**Report Reviewed:** Yes

**Report Reviewer:**

**Professional(s) of Record:**

**Name:**

**Designation:**

**Designation Number:**

|   |  |   |
|---|--|---|
|  <b>FORTIS BC™</b> | <b>Eagle Mountain - Woodfibre Gas Pipeline Project</b> | <b>Aug. 19<sup>th</sup> to Aug. 25<sup>th</sup>, 2024</b> |
|   | <b>Report #</b>  | <b>22</b>   |
|   | <b>Appendix C</b>                                      | <b>C-1</b>  |

## 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 | Aug. 19 <sup>th</sup> to Aug. 25 <sup>th</sup> , 2024 |
| Report #       | 22  |
| Appendix C     | C-2   |

## Woodfibre Site Sample Analysis

| Sample ID                             | Site ID        | Reviewed and signed off by:  |  | Sample Date   | Pentachloro Phenol (PCP) - 80%  | WADING SOP                | Samples or value notes  | BCWQ FAL - Short Term  | BCWQ FAL - Long Term   | BCWQ MAL - Short Term  | BCWQ MAL - Long Term   |
|---------------------------------------|----------------|--|--|---|---|---------------------------|---|--|--|--|--|
| Analyte                               | Units          | FAL-07 <sup>17</sup>   | FAL-17 <sup>18</sup>   | MLL <sup>19</sup>   | MAL <sup>20</sup>   | MLL <sup>19</sup>         |   |  |  |  |  |
| <u>In Situ Parameters</u>             |                |  |  |   |   |                           |   |  |  |  |  |
| pH (Field)                            | pH units       | 6.5±0  | 6.5±0  | 7.0±0.7   | 7.0±0.7   | 7.2±                      | If natural pH < 6.5, no statistically significant decrease from background is observed, the change is due to sampling error. If natural pH > 7.0, no statistically significant increase from background is observed, the change is due to sampling error. If natural pH between 6.5 and 7.0, the change is due to sampling error. If pH is outside these ranges, it is outside the water body's buffering capacity.   | Unrestricted change when no range (for protection of inelastic aquatic receptors).   |  |  |  |
| <u>Temperature (Field)</u>            |                |  |  |   |   |                           |   |  |  |  |  |
| Temperature (Field)                   | °C             | Biofouling guidelines dependent on water use and species, see note<br>Shallow water temperature < 10°C, no change required for most sensitive salmonid species present, 10°C - 12°C, change required for most sensitive salmonid species present, > 12°C, biofouling guidelines apply.<br>Biofouling guidelines > 10°C - Biofouling guidelines apply.<br>Biofouling guidelines < 10°C - Biofouling guidelines apply. | -  | Max <-1 from BioG < 1°C   | -   | 16.0 (weeks average 18.0) | Guideline is species-dependent. Shallow water temperature is 10°C for streams with no water use and no species. Shallow water temperature is 10°C for streams with water use and no species. Shallow water temperature is 10°C for streams with species present. Shallow water temperature is 10°C for streams with water use and species present. Main Weekly Max Temperature guideline is 10°C. Shallow water temperature is 10°C for streams with no water use and no species. Shallow water temperature is 10°C for streams with water use and no species. Shallow water temperature is 10°C for streams with species present, < 1°C from background. Refer to table 4 for background temperature range of each Creek.  | Guideline for marine waters are based on natural ambient conditions. No biofouling. Guidelines are for both short and long term. Biofouling guidelines are for more information.   | Guideline for marine waters are based on natural ambient conditions. No biofouling. Guidelines are for both short and long term. Biofouling guidelines are for more information.   | Guideline for marine waters are based on natural ambient conditions. No biofouling. Guidelines are for both short and long term. Biofouling guidelines are for more information.   | Guideline for marine waters are based on natural ambient conditions. No biofouling. Guidelines are for both short and long term. Biofouling guidelines are for more information.   |
| Conductivity (Field)                  | µS/cm          | -  | -  | -   | -   | 150                       |   |  |  |  |  |
| Turbidity (Field)                     | NTU            | Varies with background, see note<br>US1 (background) guideline = 0.5   | -  | Varies with background, see note<br>US1 (background) guideline = 1.0          | -   | -                         | Change from background of 0 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters.   | Change from background of 2 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters.  | Change from background of 2 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters.  | Change from background of 2 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters.  |  |
| Total Suspended Solids                | mg/L           | Varies with background, see note<br>US1 (background) guideline = 20  | -  | Varies with background, see note<br>US1 (background) guideline = 7.0          | -   | 4.0                       | Change from background of 0 mg/L at any one time for a duration of 24 h in all waters during clear flows or in clear waters.  | Change from background of 0 NTU at any one time for a 30-day period required for protection of aquatic life. Calculations use 5+10-20 guideline.   | Change from background of 0 mg/L at any one time for a duration of 24 h in all waters during clear flows or in clear waters.   | Change from background of 2 NTU at any one time for a duration of 24 h in all waters during clear flows or in clear waters.  |  |
| Chemical Oxygen Demand (COD)          | mg/L           | -  | -  | -   | -   | 0.00                      |   |  |  |  |  |
| Total Dissolved Solids                | mg/L           | -  | -  | -   | -   | 50                        |   |  |  |  |  |
| Total Suspended Solids                | mg/L           | Varies with background, see note<br>US1 (background) guideline = 2.0   | -  | Varies with background, see note<br>US1 (background) guideline = 0.5          | -   | 9.2                       | Change from background of 0 mg/L at any one time for a duration of 24 h in all waters during clear flows or in clear waters.  | Change from background of 0 mg/L at any one time for a duration of 24 h in all waters during clear flows or in clear waters.   | Change from background of 0 mg/L at any one time for a duration of 24 h in all waters during clear flows or in clear waters.   | Change from background of 0 mg/L at any one time for a duration of 24 h in all waters during clear flows or in clear waters.   |  |
| Total Dissolved Gases (TDG)           | mg/L           | -  | -  | -   | -   | 0.00                      |   |  |  |  |  |
| Total Alkalinity (CaCO <sub>3</sub> ) | mg/L           | -  | Categorical  | -   | -   | 68.1                      | Guideline for alkalinity (CaCO <sub>3</sub> ) and carbonates. No biofouling. Main WQG ECP sample has low sensitivity to acid inputs (i.e. high buffering capacity).   | Guideline for alkalinity (CaCO <sub>3</sub> ) and carbonates. No biofouling. Main WQG ECP sample has low sensitivity to acid inputs (i.e. high buffering capacity).  | Guideline for alkalinity (CaCO <sub>3</sub> ) and carbonates. No biofouling. Main WQG ECP sample has low sensitivity to acid inputs (i.e. high buffering capacity).  | Guideline for alkalinity (CaCO <sub>3</sub> ) and carbonates. No biofouling. Main WQG ECP sample has low sensitivity to acid inputs (i.e. high buffering capacity).  |  |
| Total Sulfur (as SO <sub>2</sub> )    | mg/L           | -  | -  | -   | -   | 0.0002                    |   |  |  |  |  |
| Total Sulfur (as SO <sub>4</sub> )    | mg/L           | -  | -  | -   | -   | 0.0002                    |   |  |  |  |  |
| Aldose and Nucleotides                | mmoles/L       | -  | -  | -   | -   | -                         |   |  |  |  |  |
| Ammonia                               | mg/L ammonia-N | Varies with pH and temperature. See note<br>US1 (background) guideline = 0.05  | Varies with pH and temperature. See note<br>US1 (background) guideline = 0.05    | Varies with pH, temperature and see note<br>US1 (background) guideline = 0.10 | Varies with pH, temperature and see note<br>US1 (background) guideline = 0.25 | >0.0000                   | Guideline for ammonia as N and pH and temperature dependent. Refer to table 27D in BC WQG ECP guideline notes.  | Guideline for ammonia as N. Guideline is pH and temperature dependent. Refer to table 27D in BC WQG ECP guideline notes.   | Guideline for ammonia as N. Guideline is pH and temperature dependent. Refer to table 27D in BC WQG ECP guideline notes.   | Guideline for ammonia as N. Guideline is pH and temperature dependent. Refer to table 27D in BC WQG ECP guideline notes.   | Guideline for ammonia as N. Guideline is pH and temperature dependent. Refer to table 27D in BC WQG ECP guideline notes.   |
| Ammonium                              | mg/L ammonia-N | Varies with pH and temperature. See note<br>US1 (background) guideline = 0.05  | Varies with pH and temperature. See note<br>US1 (background) guideline = 0.05    | Varies with pH, temperature and see note<br>US1 (background) guideline = 0.10 | Varies with pH, temperature and see note<br>US1 (background) guideline = 0.25 | >0.0000                   |   |  |  |  |  |
| Chloride                              | mg/L           | -  | 150  | > 10% of background   | > 90%   | 5.0                       |   |  |  |  |  |
| Fluoride                              | mg/L           | Varies with hardness   | -  | -   | -   | 0.200                     | Guideline has known intent.   | Guideline has known intent.  | Guideline has known intent.  | Guideline has known intent.  | Guideline has known intent.  |
| Arsenic (as As)                       | µg/L           | Varies with chloride. Table 27B, see note<br>US1 (background) guideline = 0.370  | Varies with chloride. Table 27B, see note<br>US1 (background) guideline = 0.370  | -   | -   | 0.3                       | Varies with chloride. Refer to Table 27B in BC WQG for guidance.  | Varies with chloride. Refer to Table 27B in BC WQG for guidance.   | Varies with chloride. Refer to Table 27B in BC WQG for guidance.   | Varies with chloride. Refer to Table 27B in BC WQG for guidance.   | Varies with chloride. Refer to Table 27B in BC WQG for guidance.   |
| Lead (Pb Total)                       | µg/L           | Varies with hardness. See Note<br>US1 (background) guideline = 0.00020   | Varies with hardness. See Note<br>US1 (background) guideline = 0.00040           | 0.14  | 0.002   | 0.000105                  | Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guideline is 0.020 where hardness <10 mg/L. Guidelines for hardness < 10 mg/L are not applicable. Lead concentration will be applied to samples with hardness < 10 mg/L. Lower value for hardness < 10 mg/L will be applied in the calculation.  | Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guideline is 0.020 where hardness <10 mg/L. Guidelines for hardness < 10 mg/L are not applicable. Lead concentration will be applied to samples with hardness < 10 mg/L. Lower value for hardness < 10 mg/L will be applied in the calculation.   | Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guideline is 0.020 where hardness <10 mg/L. Guidelines for hardness < 10 mg/L are not applicable. Lead concentration will be applied to samples with hardness < 10 mg/L. Lower value for hardness < 10 mg/L will be applied in the calculation.   | Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guidelines are for pH < 7.0 and for pH > 7.0. Guidelines are for pH < 7.0 and for pH > 7.0.   | Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guidelines are for pH < 7.0 and for pH > 7.0.   |
| Chromium (Cr Total)                   | µg/L           | -  | -  | -   | -   | 0.007                     |   |  |  |  |  |
| Chromium (Cr Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.007                     |   |  |  |  |  |
| Mercury (Hg Total)                    | µg/L           | Varies with hardness. US1 (background) guideline = 0.816   | -  | Varies with hardness  | -   | 0.0041                    | Guideline varies with hardness. The guideline is calculated using the following equation:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   | Guideline varies with hardness. The guideline is calculated using the following equation:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$  | Guideline varies with hardness. The guideline is calculated using the following equation:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$  | Guideline varies with hardness. The guideline is calculated using the following equation:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$  | Guideline varies with hardness. The guideline is calculated using the following equation:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$  |
| Mercury (Hg Total)                    | µg/L           | -  | Variety with methyl mercury + N/A  | -   | -   | 0.0000200                 |   |  |  |  |  |
| Molybdenum (Mo Total)                 | µg/L           | -  | 7.0  | -   | -   | 0.0187                    |   |  |  |  |  |
| Nickel (Ni Total)                     | µg/L           | -  | US1 (background) guideline = 0.025   | -   | -   | 0.0003                    | -0.00000  |  |  |  |  |
| Phosphorous (P Total)                 | µg/L           | -  | -  | -   | -   | 0.0001                    |   |  |  |  |  |
| Phosphorus (P Total)                  | µg/L           | -  | -  | -   | -   | 0.0002                    |   |  |  |  |  |
| Strontium (Sr Total)                  | µg/L           | -  | -  | -   | -   | 0.00002                   |   |  |  |  |  |
| Sulfur (S Total)                      | µg/L           | -  | -  | -   | -   | 0.16                      |   |  |  |  |  |
| Sulfur (S Hexavalent)                 | µg/L           | -  | -  | -   | -   | 0.0000                    |   |  |  |  |  |
| Selenium (Se Total)                   | µg/L           | -  | 0.002  | -   | -   | 0.002                     | Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guideline is 0.020 where hardness <10 mg/L. Guidelines for hardness < 10 mg/L are not applicable. Lead concentration will be applied to samples with hardness < 10 mg/L. Lower value for hardness < 10 mg/L will be applied in the calculation.  | Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guidelines are for pH < 7.0 and for pH > 7.0.   | Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guidelines are for pH < 7.0 and for pH > 7.0.   | Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guidelines are for pH < 7.0 and for pH > 7.0.   | Guideline varies with hardness, refer to BC Water Quality Guidelines for more information. Guidelines are for pH < 7.0 and for pH > 7.0.   |
| Silver (Ag Total)                     | µg/L           | -  | -  | -   | -   | 0.16                      |   |  |  |  |  |
| Antimony (Sb Total)                   | µg/L           | -  | -  | -   | -   | 0.00001                   |   |  |  |  |  |
| Zinc (Zn Total)                       | µg/L           | -  | -  | -   | -   | 0.00010                   |   |  |  |  |  |
| Wolfram (W Total)                     | µg/L           | -  | -  | -   | -   | 0.000010                  |   |  |  |  |  |
| Manganese (Mn Total)                  | µg/L           | -  | -  | -   | -   | 0.00001                   |   |  |  |  |  |
| Mercury (Hg Hexavalent)               | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Mercury (Hg Methyl)                   | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Molybdenum (Mo Hexavalent)            | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Strontium (Sr Hexavalent)             | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Zinc (Zn Hexavalent)                  | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Chromium (Cr Dibenzene)               | µg/L           | Varies with hardness, see note<br>US1 (background) guideline = 0.000002  | Varies with hardness, see note<br>US1 (background) guideline = 0.000036          | -   | -   | +0.000100                 | Guideline is hardness dependent. Guideline is applicable to water hardness between 17.2 and 455 mg/L. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$  | Guideline is hardness dependent. Guideline is applicable to water hardness between 17.2 and 455 mg/L. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   | Guideline is hardness dependent. Guideline is applicable to water hardness between 17.2 and 455 mg/L. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   | Guideline is hardness dependent. Guideline is applicable to water hardness between 17.2 and 455 mg/L. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   | Guideline is hardness dependent. Guideline is applicable to water hardness between 17.2 and 455 mg/L. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   |
| Chromium (Cr Dibenzene)               | µg/L           | -  | Categorical, see note  | -   | -   | 22.9                      | The WQG ECP has low sensitivity to acid inputs (i.e. high buffering capacity).  | Guideline is hardness dependent. Guideline is applicable to water hardness between 17.2 and 455 mg/L. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   | Guideline is hardness dependent. Guideline is applicable to water hardness between 17.2 and 455 mg/L. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   | Guideline is hardness dependent. Guideline is applicable to water hardness between 17.2 and 455 mg/L. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   | Guideline is hardness dependent. Guideline is applicable to water hardness between 17.2 and 455 mg/L. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   |
| Copper (Cu-Dibenzene)                 | µg/L           | Variety with other parameters, see note<br>US1 (background) guideline = 0.00005  | Variety with other parameters, see note<br>US1 (background) guideline = 0.000036 | -   | -   | 0.00004                   | Guideline varies with other parameters and is calculated using BC WQG simplified model. Temperature, pH, DOC and hardness. Guidelines for sediment, invertebrates, fish, macroinvertebrates, fish larvae, total nitrogen, total phosphorus, organic carbon, total calcium, total magnesium, total sodium, total potassium, sulphate, total dissolved solids, chlorides, total hardness, calcium, total hardness, invertebrates, fish, macroinvertebrates, sulphate, total dissolved solids, calcium, total magnesium, total sodium, total potassium, sulphate, total dissolved solids, chlorides, total hardness, calcium, total hardness, invertebrates, fish, macroinvertebrates, sulphate, total dissolved solids, calcium, total magnesium, total sodium, total potassium, sulphate, total dissolved solids, chlorides, total hardness, calcium, total hardness, invertebrates, fish, macroinvertebrates. | Guideline varies with other parameters and is calculated using BC WQG simplified model. Temperature, pH, DOC and hardness. Guidelines for sediment, invertebrates, fish, macroinvertebrates, sulphate, total dissolved solids, calcium, total magnesium, total sodium, total potassium, sulphate, total dissolved solids, chlorides, total hardness, calcium, total hardness, invertebrates, fish, macroinvertebrates. | Guideline varies with other parameters and is calculated using BC WQG simplified model. Temperature, pH, DOC and hardness. Guidelines for sediment, invertebrates, fish, macroinvertebrates, sulphate, total dissolved solids, calcium, total magnesium, total sodium, total potassium, sulphate, total dissolved solids, chlorides, total hardness, calcium, total hardness, invertebrates, fish, macroinvertebrates. | Guideline varies with other parameters and is calculated using BC WQG simplified model. Temperature, pH, DOC and hardness. Guidelines for sediment, invertebrates, fish, macroinvertebrates, sulphate, total dissolved solids, calcium, total magnesium, total sodium, total potassium, sulphate, total dissolved solids, chlorides, total hardness, calcium, total hardness, invertebrates, fish, macroinvertebrates. | Guideline varies with other parameters and is calculated using BC WQG simplified model. Temperature, pH, DOC and hardness. Guidelines for sediment, invertebrates, fish, macroinvertebrates, sulphate, total dissolved solids, calcium, total magnesium, total sodium, total potassium, sulphate, total dissolved solids, chlorides, total hardness, calcium, total hardness, invertebrates, fish, macroinvertebrates. |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Antimony (Sb Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Zinc (Zn Hexavalent)                  | µg/L           | Variety with DOC and hardness, see note<br>US1 (background) guideline = 0.000020   | -  | -   | -   | 0.000000001               | Guideline varies with DOC and hardness. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$  | Guideline varies with DOC and hardness. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   | Guideline varies with DOC and hardness. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   | Guideline varies with DOC and hardness. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   | Guideline varies with DOC and hardness. Guideline is calculated using the following formula:<br>$\text{Guideline} = \frac{\text{Guideline}}{\text{Hardness}} \times \text{Hardness}$   |
| Chromium (Cr Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Chromium (Cr Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Chromium (Cr Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Chromium (Cr Hexavalent)              | µg/L           | -  | -  | -   | -   | 0.000000001               |   |  |  |  |  |
| Chromium (Cr Hexavalent)              | µg/L           | -  |  |   |   |                           |   |  |  |  |  |

|   |  |                       |   |
|---|--|-----------------------|---|
|  <b>FORTIS BC™</b> | <b>Eagle Mountain - Woodfibre Gas Pipeline Project<br/>Waste Discharge Permit PE-110163 Report</b> | <b>Reporting Week</b> | <b>Aug. 19<sup>th</sup> to<br/>Aug. 25<sup>th</sup>, 2024</b> |
|   | <b>Report #</b>  | <b>22</b>             |   |
|   | <b>Appendix C</b>  | <b>C-3</b>            |   |

## Woodfibre Site Sample Lab Documentation

## CERTIFICATE OF ANALYSIS

|                         |   |                         |                                 |
|-------------------------|---|-------------------------|---------------------------------|
| Work Order              | : VA24C1103                             | Page                    | : 1 of 11                       |
| Client                  | : Triton Environmental Consultants Ltd. | Laboratory              | : ALS Environmental - Vancouver |
| Contact                 |   | Account Manager         |                                 |
| Address                 |   | Address                 |                                 |
| Telephone               | : ----                                  | Telephone               |                                 |
| Project                 | : 11964                                 | Date Samples Received   | : 20-Aug-2024 17:10             |
| PO                      | : 11964-Task30-Phase 3C-4C              | Date Analysis Commenced | : 20-Aug-2024                   |
| C-O-C number            | : ----                                  | Issue Date              | : 28-Aug-2024 15:58             |
| Sampler                 | : ----                                  |                         |                                 |
| Site                    | : Water Analysis                        |                         |                                 |
| Quote number            | : VA23-TRIT100-012 _V2                  |                         |                                 |
| No. of samples received | : 1                                     |                         |                                 |
| No. of samples analysed | : 1                                     |                         |                                 |

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

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

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

### Signatories

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

| Signatories | Position                                   | Laboratory Department                     |
|-------------|--|---|
|             | Lab Assistant                              | Metals, Burnaby, British Columbia         |
|             | Laboratory Analyst                         | Inorganics, Edmonton, Alberta             |
|             | Analyst                                    | Metals, Burnaby, British Columbia         |
|             | Supervisor - Metals Prep & Mercury         | Metals, Burnaby, British Columbia         |
|             | Production Manager, Environmental          | Inorganics, Waterloo, Ontario             |
|             | Production Manager, Environmental          | Metals, Waterloo, Ontario                 |
|             | Supervisor - Inorganic                     | Inorganics, Burnaby, British Columbia     |
|             | Department Manager - Metals                | Organics, Burnaby, British Columbia       |
|             | Analyst- General                           | Inorganics, Burnaby, British Columbia     |
|             | Lab Analyst                                | Metals, Burnaby, British Columbia         |
|             | Account Manager Assistant                  | Administration, Burnaby, British Columbia |
|             | Supervisor - Water Quality Instrumentation | Inorganics, Burnaby, British Columbia     |
|             | Analyst- General                           | Organics, 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).

| Unit     | Description                 |
|----------|-----------------------------|
| -        | no units                    |
| °C       | degrees celsius             |
| µg/L     | micrograms per litre        |
| 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

| Qualifier | Description   |
|-----------|---|
| DLM       | <i>Detection Limit Adjusted due to sample matrix effects (e.g. chemical interference, colour, turbidity).</i> |
| DTC       | <i>Dissolved concentration exceeds total. Results were confirmed by re-analysis.</i>                          |



## Analytical Results

| Client sample ID                                      |            |                   |         |          | WLNG EOP             | ---   | ---   | ---   | ---   |
|---|------------|-------------------|---------|----------|----------------------|-------|-------|-------|-------|
| Client sampling date / time                           |            |                   |         |          | 20-Aug-2024<br>11:16 | ---   | ---   | ---   | ---   |
| Analyte   | CAS Number | Method/Lab        | LOR     | Unit     | VA24C1103-001        | ----- | ----- | ----- | ----- |
| <b>Field Tests</b>                                    |            |                   |         |          |                      |       |       |       |       |
| Conductivity, field                                   | ---        | EF001/VA          | 0.10    | µS/cm    | 192.00               | ---   | ---   | ---   | ---   |
| pH, field   | ---        | EF001/VA          | 0.10    | pH units | 7.23                 | ---   | ---   | ---   | ---   |
| Temperature, field                                    | ---        | EF001/VA          | 0.10    | °C       | 16.9                 | ---   | ---   | ---   | ---   |
| <b>Physical Tests</b>                                 |            |                   |         |          |                      |       |       |       |       |
| Hardness (as CaCO <sub>3</sub> ), dissolved           | ---        | EC100/VA          | 0.60    | mg/L     | 60.5                 | ---   | ---   | ---   | ---   |
| Hardness (as CaCO <sub>3</sub> ), from total Ca/Mg    | ---        | EC100A/VA         | 0.60    | mg/L     | 58.0                 | ---   | ---   | ---   | ---   |
| Solids, total dissolved [TDS]                         | ---        | E162/VA           | 10      | mg/L     | 97                   | ---   | ---   | ---   | ---   |
| Solids, total suspended [TSS]                         | ---        | E160/VA           | 3.0     | mg/L     | 9.2                  | ---   | ---   | ---   | ---   |
| Alkalinity, total (as CaCO <sub>3</sub> )             | ---        | E290/VA           | 2.0     | mg/L     | 68.1                 | ---   | ---   | ---   | ---   |
| <b>Anions and Nutrients</b>                           |            |                   |         |          |                      |       |       |       |       |
| Ammonia, total (as N)                                 | 7664-41-7  | E298/VA           | 0.0050  | mg/L     | <0.0050              | ---   | ---   | ---   | ---   |
| Bromide   | 24959-67-9 | E235.Br-L/VA      | 0.050   | mg/L     | <0.050               | ---   | ---   | ---   | ---   |
| Chloride  | 16887-00-6 | E235.Cl/VA        | 0.50    | mg/L     | 5.02                 | ---   | ---   | ---   | ---   |
| Fluoride  | 16984-48-8 | E235.F/VA         | 0.020   | mg/L     | 0.295                | ---   | ---   | ---   | ---   |
| Nitrate (as N)  | 14797-55-8 | E235.NO3-L/V<br>A | 0.0050  | mg/L     | <0.0050              | ---   | ---   | ---   | ---   |
| Nitrite (as N)  | 14797-65-0 | E235.NO2-L/V<br>A | 0.0010  | mg/L     | <0.0010              | ---   | ---   | ---   | ---   |
| Nitrogen, total                                       | 7727-37-9  | E366/VA           | 0.030   | mg/L     | 0.119                | ---   | ---   | ---   | ---   |
| Phosphorus, total                                     | 7723-14-0  | E372-U/VA         | 0.0020  | mg/L     | 0.0052               | ---   | ---   | ---   | ---   |
| Sulfate (as SO <sub>4</sub> )                         | 14808-79-8 | E235.SO4/VA       | 0.30    | mg/L     | 7.21                 | ---   | ---   | ---   | ---   |
| <b>Organic / Inorganic Carbon</b>                     |            |                   |         |          |                      |       |       |       |       |
| Carbon, dissolved organic [DOC]                       | ---        | E358-L/VA         | 0.50    | mg/L     | 8.88                 | ---   | ---   | ---   | ---   |
| <b>Total Sulfides</b>                                 |            |                   |         |          |                      |       |       |       |       |
| Sulfide, total (as S)                                 | 18496-25-8 | E395/VA           | 0.0015  | mg/L     | <0.0015              | ---   | ---   | ---   | ---   |
| Sulfide, un-ionized (as H <sub>2</sub> S), from total | 7783-06-4  | EC395/VA          | 0.0015  | mg/L     | <0.0015              | ---   | ---   | ---   | ---   |
| Sulfide, total (as H <sub>2</sub> S)                  | 7783-06-4  | E395/VA           | 0.0016  | mg/L     | <0.0016              | ---   | ---   | ---   | ---   |
| <b>Total Metals</b>                                   |            |                   |         |          |                      |       |       |       |       |
| Aluminum, total                                       | 7429-90-5  | E420/VA           | 0.0030  | mg/L     | 0.198                | ---   | ---   | ---   | ---   |
| Antimony, total                                       | 7440-36-0  | E420/VA           | 0.00010 | mg/L     | 0.00154              | ---   | ---   | ---   | ---   |



## Analytical Results

|                     |            |            |           |      | Client sample ID            | WLNG EOP             | --- | --- | --- | --- |
|---------------------|------------|------------|-----------|------|-----------------------------|----------------------|-----|-----|-----|-----|
|                     |            |            |           |      | Client sampling date / time | 20-Aug-2024<br>11:16 | --- | --- | --- | --- |
| Analyte             | CAS Number | Method/Lab | LOR       | Unit | VA24C1103-001               | Result               | --- | --- | --- | --- |
| <b>Total Metals</b> |            |            |           |      |                             |                      |     |     |     |     |
| Arsenic, total      | 7440-38-2  | E420/VA    | 0.00010   | mg/L | 0.00130                     | ---                  | --- | --- | --- | --- |
| Barium, total       | 7440-39-3  | E420/VA    | 0.00010   | mg/L | 0.00773                     | ---                  | --- | --- | --- | --- |
| Beryllium, total    | 7440-41-7  | E420/VA    | 0.000100  | mg/L | <0.000100                   | ---                  | --- | --- | --- | --- |
| Bismuth, total      | 7440-69-9  | E420/VA    | 0.000050  | mg/L | <0.000050                   | ---                  | --- | --- | --- | --- |
| Boron, total        | 7440-42-8  | E420/VA    | 0.010     | mg/L | 0.023                       | ---                  | --- | --- | --- | --- |
| Cadmium, total      | 7440-43-9  | E420/VA    | 0.0000050 | mg/L | <0.0000100 <sup>DLM</sup>   | ---                  | --- | --- | --- | --- |
| Calcium, total      | 7440-70-2  | E420/VA    | 0.050     | mg/L | 21.8                        | ---                  | --- | --- | --- | --- |
| Cesium, total       | 7440-46-2  | E420/VA    | 0.000010  | mg/L | 0.000048                    | ---                  | --- | --- | --- | --- |
| Chromium, total     | 7440-47-3  | E420/VA    | 0.00050   | mg/L | <0.00050                    | ---                  | --- | --- | --- | --- |
| Cobalt, total       | 7440-48-4  | E420/VA    | 0.00010   | mg/L | <0.00010                    | ---                  | --- | --- | --- | --- |
| Copper, total       | 7440-50-8  | E420/VA    | 0.00050   | mg/L | <0.00050                    | ---                  | --- | --- | --- | --- |
| Iron, total         | 7439-89-6  | E420/VA    | 0.010     | mg/L | 0.876                       | ---                  | --- | --- | --- | --- |
| Lead, total         | 7439-92-1  | E420/VA    | 0.000050  | mg/L | 0.000105                    | ---                  | --- | --- | --- | --- |
| Lithium, total      | 7439-93-2  | E420/VA    | 0.0010    | mg/L | 0.0187                      | ---                  | --- | --- | --- | --- |
| Magnesium, total    | 7439-95-4  | E420/VA    | 0.0050    | mg/L | 0.876                       | ---                  | --- | --- | --- | --- |
| Manganese, total    | 7439-96-5  | E420/VA    | 0.00010   | mg/L | 0.0341                      | ---                  | --- | --- | --- | --- |
| Mercury, total      | 7439-97-6  | E508/VA    | 0.0000050 | mg/L | <0.0000050                  | ---                  | --- | --- | --- | --- |
| Molybdenum, total   | 7439-98-7  | E420/VA    | 0.000050  | mg/L | 0.0187                      | ---                  | --- | --- | --- | --- |
| Nickel, total       | 7440-02-0  | E420/VA    | 0.00050   | mg/L | <0.00050                    | ---                  | --- | --- | --- | --- |
| Phosphorus, total   | 7723-14-0  | E420/VA    | 0.050     | mg/L | <0.050                      | ---                  | --- | --- | --- | --- |
| Potassium, total    | 7440-09-7  | E420/VA    | 0.050     | mg/L | 5.36                        | ---                  | --- | --- | --- | --- |
| Rubidium, total     | 7440-17-7  | E420/VA    | 0.00020   | mg/L | 0.00966                     | ---                  | --- | --- | --- | --- |
| Selenium, total     | 7782-49-2  | E420/VA    | 0.000050  | mg/L | 0.000104                    | ---                  | --- | --- | --- | --- |
| Silicon, total      | 7440-21-3  | E420/VA    | 0.10      | mg/L | 5.14                        | ---                  | --- | --- | --- | --- |
| Silver, total       | 7440-22-4  | E420/VA    | 0.000010  | mg/L | <0.000010                   | ---                  | --- | --- | --- | --- |
| Sodium, total       | 7440-23-5  | E420/VA    | 0.050     | mg/L | 8.67                        | ---                  | --- | --- | --- | --- |
| Strontium, total    | 7440-24-6  | E420/VA    | 0.00020   | mg/L | 0.0602                      | ---                  | --- | --- | --- | --- |
| Sulfur, total       | 7704-34-9  | E420/VA    | 0.50      | mg/L | 1.97                        | ---                  | --- | --- | --- | --- |
| Tellurium, total    | 13494-80-9 | E420/VA    | 0.00020   | mg/L | <0.00020                    | ---                  | --- | --- | --- | --- |
| Thallium, total     | 7440-28-0  | E420/VA    | 0.000010  | mg/L | 0.000030                    | ---                  | --- | --- | --- | --- |



## Analytical Results

| Sub-Matrix: Water<br>(Matrix: Water) |            |            |           |      | Client sample ID            | WLNG EOP             | ---  | ---  | ---  | ---  |
|--------------------------------------|------------|------------|-----------|------|-----------------------------|----------------------|------|------|------|------|
|                                      |            |            |           |      | Client sampling date / time | 20-Aug-2024<br>11:16 | ---  | ---  | ---  | ---  |
| Analyte                              | CAS Number | Method/Lab | LOR       | Unit | VA24C1103-001               | Result               | ---- | ---- | ---- | ---- |
| <b>Total Metals</b>                  |            |            |           |      |                             |                      |      |      |      |      |
| Thorium, total                       | 7440-29-1  | E420/VA    | 0.00010   | mg/L | <0.00010                    | ---                  | ---  | ---  | ---  | ---  |
| Tin, total                           | 7440-31-5  | E420/VA    | 0.00010   | mg/L | <0.00010                    | ---                  | ---  | ---  | ---  | ---  |
| Titanium, total                      | 7440-32-6  | E420/VA    | 0.00030   | mg/L | 0.00387                     | ---                  | ---  | ---  | ---  | ---  |
| Tungsten, total                      | 7440-33-7  | E420/VA    | 0.00010   | mg/L | 0.00051                     | ---                  | ---  | ---  | ---  | ---  |
| Uranium, total                       | 7440-61-1  | E420/VA    | 0.000010  | mg/L | 0.00203                     | ---                  | ---  | ---  | ---  | ---  |
| Vanadium, total                      | 7440-62-2  | E420/VA    | 0.00050   | mg/L | <0.00050                    | ---                  | ---  | ---  | ---  | ---  |
| Zinc, total                          | 7440-66-6  | E420/VA    | 0.0030    | mg/L | <0.0030                     | ---                  | ---  | ---  | ---  | ---  |
| Zirconium, total                     | 7440-67-7  | E420/VA    | 0.00020   | mg/L | <0.00020                    | ---                  | ---  | ---  | ---  | ---  |
| <b>Dissolved Metals</b>              |            |            |           |      |                             |                      |      |      |      |      |
| Aluminum, dissolved                  | 7429-90-5  | E421/VA    | 0.0010    | mg/L | 0.0158                      | ---                  | ---  | ---  | ---  | ---  |
| Antimony, dissolved                  | 7440-36-0  | E421/VA    | 0.00010   | mg/L | 0.00090                     | ---                  | ---  | ---  | ---  | ---  |
| Arsenic, dissolved                   | 7440-38-2  | E421/VA    | 0.00010   | mg/L | 0.00163                     | ---                  | ---  | ---  | ---  | ---  |
| Barium, dissolved                    | 7440-39-3  | E421/VA    | 0.00010   | mg/L | 0.00449                     | ---                  | ---  | ---  | ---  | ---  |
| Beryllium, dissolved                 | 7440-41-7  | E421/VA    | 0.000100  | mg/L | <0.000100                   | ---                  | ---  | ---  | ---  | ---  |
| Bismuth, dissolved                   | 7440-69-9  | E421/VA    | 0.000050  | mg/L | <0.000050                   | ---                  | ---  | ---  | ---  | ---  |
| Boron, dissolved                     | 7440-42-8  | E421/VA    | 0.010     | mg/L | 0.021                       | ---                  | ---  | ---  | ---  | ---  |
| Cadmium, dissolved                   | 7440-43-9  | E421/VA    | 0.0000050 | mg/L | <0.0000100 <sup>DLM</sup>   | ---                  | ---  | ---  | ---  | ---  |
| Calcium, dissolved                   | 7440-70-2  | E421/VA    | 0.050     | mg/L | 22.9                        | ---                  | ---  | ---  | ---  | ---  |
| Cesium, dissolved                    | 7440-46-2  | E421/VA    | 0.000010  | mg/L | 0.000029                    | ---                  | ---  | ---  | ---  | ---  |
| Chromium, dissolved                  | 7440-47-3  | E421/VA    | 0.00050   | mg/L | <0.00050                    | ---                  | ---  | ---  | ---  | ---  |
| Cobalt, dissolved                    | 7440-48-4  | E421/VA    | 0.00010   | mg/L | <0.00010                    | ---                  | ---  | ---  | ---  | ---  |
| Copper, dissolved                    | 7440-50-8  | E421/VA    | 0.00020   | mg/L | 0.00040                     | ---                  | ---  | ---  | ---  | ---  |
| Iron, dissolved                      | 7439-89-6  | E421/VA    | 0.010     | mg/L | 0.024                       | ---                  | ---  | ---  | ---  | ---  |
| Lead, dissolved                      | 7439-92-1  | E421/VA    | 0.000050  | mg/L | <0.000050                   | ---                  | ---  | ---  | ---  | ---  |
| Lithium, dissolved                   | 7439-93-2  | E421/VA    | 0.0010    | mg/L | 0.0202                      | ---                  | ---  | ---  | ---  | ---  |
| Magnesium, dissolved                 | 7439-95-4  | E421/VA    | 0.0050    | mg/L | 0.818                       | ---                  | ---  | ---  | ---  | ---  |
| Manganese, dissolved                 | 7439-96-5  | E421/VA    | 0.00010   | mg/L | 0.00534                     | ---                  | ---  | ---  | ---  | ---  |
| Mercury, dissolved                   | 7439-97-6  | E509/VA    | 0.0000050 | mg/L | <0.0000050                  | ---                  | ---  | ---  | ---  | ---  |
| Molybdenum, dissolved                | 7439-98-7  | E421/VA    | 0.000050  | mg/L | 0.0224                      | ---                  | ---  | ---  | ---  | ---  |
| Nickel, dissolved                    | 7440-02-0  | E421/VA    | 0.00050   | mg/L | <0.00050                    | ---                  | ---  | ---  | ---  | ---  |



## Analytical Results

|                                       |            |            |          |      | Client sample ID            | WLNG EOP             | ---   | ---   | ---   | ---   |
|---------------------------------------|------------|------------|----------|------|-----------------------------|----------------------|-------|-------|-------|-------|
|                                       |            |            |          |      | Client sampling date / time | 20-Aug-2024<br>11:16 | ---   | ---   | ---   | ---   |
| Analyte                               | CAS Number | Method/Lab | LOR      | Unit | VA24C1103-001               | -----                | ----- | ----- | ----- | ----- |
|                                       |            |            |          |      | Result                      | ---                  | ---   | ---   | ---   | ---   |
| <b>Dissolved Metals</b>               |            |            |          |      |                             |                      |       |       |       |       |
| Phosphorus, dissolved                 | 7723-14-0  | E421/VA    | 0.050    | mg/L | <0.050                      | ---                  | ---   | ---   | ---   | ---   |
| Potassium, dissolved                  | 7440-09-7  | E421/VA    | 0.050    | mg/L | 4.60                        | ---                  | ---   | ---   | ---   | ---   |
| Rubidium, dissolved                   | 7440-17-7  | E421/VA    | 0.00020  | mg/L | 0.00809                     | ---                  | ---   | ---   | ---   | ---   |
| Selenium, dissolved                   | 7782-49-2  | E421/VA    | 0.000050 | mg/L | 0.000094                    | ---                  | ---   | ---   | ---   | ---   |
| Silicon, dissolved                    | 7440-21-3  | E421/VA    | 0.050    | mg/L | 4.79                        | ---                  | ---   | ---   | ---   | ---   |
| Silver, dissolved                     | 7440-22-4  | E421/VA    | 0.000010 | mg/L | 0.000013                    | ---                  | ---   | ---   | ---   | ---   |
| Sodium, dissolved                     | 7440-23-5  | E421/VA    | 0.050    | mg/L | 7.34                        | ---                  | ---   | ---   | ---   | ---   |
| Strontium, dissolved                  | 7440-24-6  | E421/VA    | 0.00020  | mg/L | 0.0643                      | ---                  | ---   | ---   | ---   | ---   |
| Sulfur, dissolved                     | 7704-34-9  | E421/VA    | 0.50     | mg/L | 2.16                        | ---                  | ---   | ---   | ---   | ---   |
| Tellurium, dissolved                  | 13494-80-9 | E421/VA    | 0.00020  | mg/L | <0.00020                    | ---                  | ---   | ---   | ---   | ---   |
| Thallium, dissolved                   | 7440-28-0  | E421/VA    | 0.000010 | mg/L | 0.000028                    | ---                  | ---   | ---   | ---   | ---   |
| Thorium, dissolved                    | 7440-29-1  | E421/VA    | 0.00010  | mg/L | <0.00010                    | ---                  | ---   | ---   | ---   | ---   |
| Tin, dissolved                        | 7440-31-5  | E421/VA    | 0.00010  | mg/L | <0.00010                    | ---                  | ---   | ---   | ---   | ---   |
| Titanium, dissolved                   | 7440-32-6  | E421/VA    | 0.00030  | mg/L | <0.00030                    | ---                  | ---   | ---   | ---   | ---   |
| Tungsten, dissolved                   | 7440-33-7  | E421/VA    | 0.00010  | mg/L | 0.00055                     | ---                  | ---   | ---   | ---   | ---   |
| Uranium, dissolved                    | 7440-61-1  | E421/VA    | 0.000010 | mg/L | 0.00305 <sup>DTC</sup>      | ---                  | ---   | ---   | ---   | ---   |
| Vanadium, dissolved                   | 7440-62-2  | E421/VA    | 0.00050  | mg/L | <0.00050                    | ---                  | ---   | ---   | ---   | ---   |
| Zinc, dissolved                       | 7440-66-6  | E421/VA    | 0.0010   | mg/L | 0.0049 <sup>DTC</sup>       | ---                  | ---   | ---   | ---   | ---   |
| Zirconium, dissolved                  | 7440-67-7  | E421/VA    | 0.00020  | mg/L | <0.00020                    | ---                  | ---   | ---   | ---   | ---   |
| Dissolved mercury filtration location | ---        | EP509/VA   | -        | -    | Field                       | ---                  | ---   | ---   | ---   | ---   |
| Dissolved metals filtration location  | ---        | EP421/VA   | -        | -    | Field                       | ---                  | ---   | ---   | ---   | ---   |
| <b>Speciated Metals</b>               |            |            |          |      |                             |                      |       |       |       |       |
| Chromium, hexavalent [Cr VI], total   | 18540-29-9 | E532/WT    | 0.00050  | mg/L | <0.00050                    | ---                  | ---   | ---   | ---   | ---   |
| Chromium, trivalent [Cr III], total   | 16065-83-1 | EC535/WT   | 0.00050  | mg/L | <0.00050                    | ---                  | ---   | ---   | ---   | ---   |
| <b>Aggregate Organics</b>             |            |            |          |      |                             |                      |       |       |       |       |
| Phenols, total (4AAP)                 | ---        | E562/EO    | 0.0010   | mg/L | <0.0010                     | ---                  | ---   | ---   | ---   | ---   |
| <b>Volatile Organic Compounds</b>     |            |            |          |      |                             |                      |       |       |       |       |
| Chlorobenzene                         | 108-90-7   | E611C/VA   | 0.50     | µg/L | <0.50                       | ---                  | ---   | ---   | ---   | ---   |
| Chloromethane                         | 74-87-3    | E611C/VA   | 5.0      | µg/L | <5.0                        | ---                  | ---   | ---   | ---   | ---   |
| Dichlorobenzene, 1,2-                 | 95-50-1    | E611C/VA   | 0.50     | µg/L | <0.50                       | ---                  | ---   | ---   | ---   | ---   |



## Analytical Results

| Sub-Matrix: Water<br>(Matrix: Water)            |             |            |      |      | Client sample ID            | WLNG EOP             | ---  | ---  | ---  | ---  |
|---|-------------|------------|------|------|-----------------------------|----------------------|------|------|------|------|
| Analyte   | CAS Number  | Method/Lab | LOR  | Unit | Client sampling date / time | 20-Aug-2024<br>11:16 | ---  | ---  | ---  | ---  |
|   |             |            |      |      | VA24C1103-001               | Result               | ---- | ---- | ---- | ---- |
| <b>Volatile Organic Compounds</b>               |             |            |      |      |                             |                      |      |      |      |      |
| Dichlorobenzene, 1,3-                           | 541-73-1    | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Dichlorobenzene, 1,4-                           | 106-46-7    | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Dichloropropane, 1,2-                           | 78-87-5     | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Dichloropropylene, cis+trans-1,3-               | 542-75-6    | E611C/VA   | 0.75 | µg/L | <0.75                       | ---                  | ---  | ---  | ---  | ---  |
| Dichloropropylene, cis-1,3-                     | 10061-01-5  | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Tetrachloroethane, 1,1,1,2-                     | 630-20-6    | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Tetrachloroethane, 1,1,2,2-                     | 79-34-5     | E611C/VA   | 0.20 | µg/L | <0.20                       | ---                  | ---  | ---  | ---  | ---  |
| Trichloroethane, 1,1,2-                         | 79-00-5     | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Trichlorofluoromethane                          | 75-69-4     | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| <b>Volatile Organic Compounds [Drycleaning]</b> |             |            |      |      |                             |                      |      |      |      |      |
| Carbon tetrachloride                            | 56-23-5     | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Chloroethane                                    | 75-00-3     | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Dichloroethane, 1,1-                            | 75-34-3     | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Dichloroethane, 1,2-                            | 107-06-2    | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Dichloroethylene, 1,1-                          | 75-35-4     | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Dichloroethylene, cis-1,2-                      | 156-59-2    | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Dichloroethylene, trans-1,2-                    | 156-60-5    | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Dichloromethane                                 | 75-09-2     | E611C/VA   | 1.0  | µg/L | <1.0                        | ---                  | ---  | ---  | ---  | ---  |
| Dichloropropylene, trans-1,3-                   | 10061-02-6  | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Tetrachloroethylene                             | 127-18-4    | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Trichloroethane, 1,1,1-                         | 71-55-6     | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Trichloroethylene                               | 79-01-6     | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Vinyl chloride                                  | 75-01-4     | E611C/VA   | 0.40 | µg/L | <0.40                       | ---                  | ---  | ---  | ---  | ---  |
| <b>Volatile Organic Compounds [Fuels]</b>       |             |            |      |      |                             |                      |      |      |      |      |
| Benzene   | 71-43-2     | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Ethylbenzene                                    | 100-41-4    | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Methyl-tert-butyl ether [MTBE]                  | 1634-04-4   | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Styrene   | 100-42-5    | E611C/VA   | 0.50 | µg/L | <0.50                       | ---                  | ---  | ---  | ---  | ---  |
| Toluene   | 108-88-3    | E611C/VA   | 0.40 | µg/L | <0.40                       | ---                  | ---  | ---  | ---  | ---  |
| Xylene, m+p-                                    | 179601-23-1 | E611C/VA   | 0.40 | µg/L | <0.40                       | ---                  | ---  | ---  | ---  | ---  |



## Analytical Results

| Sub-Matrix: Water<br>(Matrix: Water)         |            |                   |        |      | Client sample ID | WLNG EOP | ---   | ---   | ---   | ---   |
|--|------------|-------------------|--------|------|------------------|----------|-------|-------|-------|-------|
| Analyte                                      | CAS Number | Method/Lab        | LOR    | Unit | VA24C1103-001    | -----    | ----- | ----- | ----- | ----- |
|  |            |                   |        |      | Result           | ---      | ---   | ---   | ---   | ---   |
| <b>Volatile Organic Compounds [Fuels]</b>    |            |                   |        |      |                  |          |       |       |       |       |
| Xylene, o-                                   | 95-47-6    | E611C/VA          | 0.30   | µg/L | <0.30            | ---      | ---   | ---   | ---   | ---   |
| Xylenes, total                               | 1330-20-7  | E611C/VA          | 0.50   | µg/L | <0.50            | ---      | ---   | ---   | ---   | ---   |
| <b>Volatile Organic Compounds [THMs]</b>     |            |                   |        |      |                  |          |       |       |       |       |
| Bromodichloromethane                         | 75-27-4    | E611C/VA          | 0.50   | µg/L | <0.50            | ---      | ---   | ---   | ---   | ---   |
| Bromoform                                    | 75-25-2    | E611C/VA          | 0.50   | µg/L | <0.50            | ---      | ---   | ---   | ---   | ---   |
| Chloroform                                   | 67-66-3    | E611C/VA          | 0.50   | µg/L | <0.50            | ---      | ---   | ---   | ---   | ---   |
| Dibromochloromethane                         | 124-48-1   | E611C/VA          | 0.50   | µg/L | <0.50            | ---      | ---   | ---   | ---   | ---   |
| <b>Hydrocarbons</b>                          |            |                   |        |      |                  |          |       |       |       |       |
| EPH (C10-C19)                                | ---        | E601A/VA          | 250    | µg/L | <250             | ---      | ---   | ---   | ---   | ---   |
| EPH (C19-C32)                                | ---        | E601A/VA          | 250    | µg/L | <250             | ---      | ---   | ---   | ---   | ---   |
| VHw (C6-C10)                                 | ---        | E581.VH+F1/<br>VA | 100    | µg/L | <100             | ---      | ---   | ---   | ---   | ---   |
| HEPHw  | ---        | EC600A/VA         | 250    | µg/L | <250             | ---      | ---   | ---   | ---   | ---   |
| LEPHw  | ---        | EC600A/VA         | 250    | µg/L | <250             | ---      | ---   | ---   | ---   | ---   |
| VPHw   | ---        | EC580A/VA         | 100    | µg/L | <100             | ---      | ---   | ---   | ---   | ---   |
| <b>Hydrocarbons Surrogates</b>               |            |                   |        |      |                  |          |       |       |       |       |
| Bromobenzotrifluoride, 2- (EPH surrogate)    | 392-83-6   | E601A/VA          | 1.0    | %    | 82.4             | ---      | ---   | ---   | ---   | ---   |
| Dichlorotoluene, 3,4-                        | 95-75-0    | E581.VH+F1/<br>VA | 1.0    | %    | 108              | ---      | ---   | ---   | ---   | ---   |
| <b>Volatile Organic Compounds Surrogates</b> |            |                   |        |      |                  |          |       |       |       |       |
| Bromofluorobenzene, 4-                       | 460-00-4   | E611C/VA          | 1.0    | %    | 81.4             | ---      | ---   | ---   | ---   | ---   |
| Difluorobenzene, 1,4-                        | 540-36-3   | E611C/VA          | 1.0    | %    | 99.0             | ---      | ---   | ---   | ---   | ---   |
| <b>Polycyclic Aromatic Hydrocarbons</b>      |            |                   |        |      |                  |          |       |       |       |       |
| Acenaphthene                                 | 83-32-9    | E641A/VA          | 0.010  | µg/L | <0.010           | ---      | ---   | ---   | ---   | ---   |
| Acenaphthylene                               | 208-96-8   | E641A/VA          | 0.010  | µg/L | <0.010           | ---      | ---   | ---   | ---   | ---   |
| Acridine                                     | 260-94-6   | E641A/VA          | 0.010  | µg/L | <0.010           | ---      | ---   | ---   | ---   | ---   |
| Anthracene                                   | 120-12-7   | E641A/VA          | 0.010  | µg/L | <0.010           | ---      | ---   | ---   | ---   | ---   |
| Benz(a)anthracene                            | 56-55-3    | E641A/VA          | 0.010  | µg/L | <0.010           | ---      | ---   | ---   | ---   | ---   |
| Benzo(a)pyrene                               | 50-32-8    | E641A/VA          | 0.0050 | µg/L | <0.0050          | ---      | ---   | ---   | ---   | ---   |
| Benzo(b+j)fluoranthene                       | n/a        | E641A/VA          | 0.010  | µg/L | <0.010           | ---      | ---   | ---   | ---   | ---   |



## Analytical Results

| Client sample ID                                   |            |            |        |      | WLNG EOP             | ---   | ---   | ---   | ---   |
|--|------------|------------|--------|------|----------------------|-------|-------|-------|-------|
| Client sampling date / time                        |            |            |        |      | 20-Aug-2024<br>11:16 | ---   | ---   | ---   | ---   |
| Analyte  | CAS Number | Method/Lab | LOR    | Unit | VA24C1103-001        | ----- | ----- | ----- | ----- |
| <b>Polycyclic Aromatic Hydrocarbons</b>            |            |            |        |      |                      |       |       |       |       |
| Benzo(b+j+k)fluoranthene                           | n/a        | E641A/VA   | 0.015  | µg/L | <0.015               | ---   | ---   | ---   | ---   |
| Benzo(g,h,i)perylene                               | 191-24-2   | E641A/VA   | 0.010  | µg/L | <0.010               | ---   | ---   | ---   | ---   |
| Benzo(k)fluoranthene                               | 207-08-9   | E641A/VA   | 0.010  | µg/L | <0.010               | ---   | ---   | ---   | ---   |
| Chrysene   | 218-01-9   | E641A/VA   | 0.010  | µg/L | <0.010               | ---   | ---   | ---   | ---   |
| Dibenz(a,h)anthracene                              | 53-70-3    | E641A/VA   | 0.0050 | µg/L | <0.0050              | ---   | ---   | ---   | ---   |
| Fluoranthene                                       | 206-44-0   | E641A/VA   | 0.010  | µg/L | <0.010               | ---   | ---   | ---   | ---   |
| Fluorene   | 86-73-7    | E641A/VA   | 0.010  | µg/L | <0.010               | ---   | ---   | ---   | ---   |
| Indeno(1,2,3-c,d)pyrene                            | 193-39-5   | E641A/VA   | 0.010  | µg/L | <0.010               | ---   | ---   | ---   | ---   |
| Methylnaphthalene, 1-                              | 90-12-0    | E641A/VA   | 0.010  | µg/L | 0.044                | ---   | ---   | ---   | ---   |
| Methylnaphthalene, 2-                              | 91-57-6    | E641A/VA   | 0.010  | µg/L | 0.053                | ---   | ---   | ---   | ---   |
| Naphthalene  | 91-20-3    | E641A/VA   | 0.050  | µg/L | <0.050               | ---   | ---   | ---   | ---   |
| Phenanthrene                                       | 85-01-8    | E641A/VA   | 0.020  | µg/L | <0.020               | ---   | ---   | ---   | ---   |
| Pyrene   | 129-00-0   | E641A/VA   | 0.010  | µg/L | <0.010               | ---   | ---   | ---   | ---   |
| Quinoline  | 91-22-5    | E641A/VA   | 0.050  | µg/L | <0.050               | ---   | ---   | ---   | ---   |
| <b>Polycyclic Aromatic Hydrocarbons Surrogates</b> |            |            |        |      |                      |       |       |       |       |
| Chrysene-d12                                       | 1719-03-5  | E641A/VA   | 0.1    | %    | 110                  | ---   | ---   | ---   | ---   |
| Naphthalene-d8                                     | 1146-65-2  | E641A/VA   | 0.1    | %    | 95.6                 | ---   | ---   | ---   | ---   |
| Phenanthrene-d10                                   | 1517-22-2  | E641A/VA   | 0.1    | %    | 110                  | ---   | ---   | ---   | ---   |
| <b>Glycols</b>                                     |            |            |        |      |                      |       |       |       |       |
| Diethylene glycol                                  | 111-46-6   | E680E/VA   | 5.0    | mg/L | <5.0                 | ---   | ---   | ---   | ---   |
| Ethylene glycol                                    | 107-21-1   | E680E/VA   | 5.0    | mg/L | <5.0                 | ---   | ---   | ---   | ---   |
| Propylene glycol, 1,2-                             | 57-55-6    | E680E/VA   | 5.0    | mg/L | <5.0                 | ---   | ---   | ---   | ---   |
| Triethylene glycol                                 | 112-27-6   | E680E/VA   | 5.0    | mg/L | <5.0                 | ---   | ---   | ---   | ---   |
| Glycols, total (EG+DEG+PG)                         | ----       | E680E/VA   | 10     | mg/L | <10                  | ---   | ---   | ---   | ---   |
| <b>Glycols Surrogates</b>                          |            |            |        |      |                      |       |       |       |       |
| Propanediol, 1,3-                                  | 504-63-2   | E680E/VA   | 1.0    | %    | 107                  | ---   | ---   | ---   | ---   |

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.

Page : 11 of 11  
Work Order : VA24C1103  
Client : Triton Environmental Consultants Ltd.  
Project : 11964

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## QUALITY CONTROL INTERPRETIVE REPORT

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|                         |   |                       |                                 |
|-------------------------|---|-----------------------|---------------------------------|
| Work Order              | : VA24C1103                             | 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 | : 20-Aug-2024 17:10             |
| PO                      | : 11964-Task30-Phase 3C-4C              | Issue Date            | : 28-Aug-2024 15:58             |
| C-O-C number            | : ----                                  |                       |                                 |
| Sampler                 |   |                       |                                 |
| Site                    | : Water Analysis                        |                       |                                 |
| Quote number            | : VA23-TRIT100-012_V2                   |                       |                                 |
| No. of samples received | : 1                                     |                       |                                 |
| No. of samples analysed | : 1                                     |                       |                                 |

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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.

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### Workorder Comments

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

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### 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  |                                 |            |   |                          | Rec           | Actual |      |               | Rec           | Actual |  |  |  |
| <b>Aggregate Organics : Phenols (4AAP) in Water by Colorimetry</b> |                                 |            |   |                          |               |        |      |               |               |        |  |  |  |
| Amber glass total (sulfuric acid)<br>WLNG EOP                      |                                 | E562       | 20-Aug-2024   | 23-Aug-2024              | 28 days       | 3 days | ✓    | 23-Aug-2024   | 28 days       | 3 days |  |  |  |
| <b>Anions and Nutrients : Ammonia by Fluorescence</b>              |                                 |            |   |                          |               |        |      |               |               |        |  |  |  |
| Amber glass total (sulfuric acid)<br>WLNG EOP                      |                                 | E298       | 20-Aug-2024   | 20-Aug-2024              | 28 days       | 0 days | ✓    | 21-Aug-2024   | 28 days       | 1 days |  |  |  |
| <b>Anions and Nutrients : Bromide in Water by IC (Low Level)</b>   |                                 |            |   |                          |               |        |      |               |               |        |  |  |  |
| HDPE<br>WLNG EOP   |                                 | E235.Br-L  | 20-Aug-2024   | 21-Aug-2024              | 28 days       | 1 days | ✓    | 21-Aug-2024   | 28 days       | 1 days |  |  |  |
| <b>Anions and Nutrients : Chloride in Water by IC</b>              |                                 |            |   |                          |               |        |      |               |               |        |  |  |  |
| HDPE<br>WLNG EOP   |                                 | E235.Cl    | 20-Aug-2024   | 21-Aug-2024              | 28 days       | 1 days | ✓    | 21-Aug-2024   | 28 days       | 1 days |  |  |  |
| <b>Anions and Nutrients : Fluoride in Water by IC</b>              |                                 |            |   |                          |               |        |      |               |               |        |  |  |  |
| HDPE<br>WLNG EOP   |                                 | E235.F     | 20-Aug-2024   | 21-Aug-2024              | 28 days       | 1 days | ✓    | 21-Aug-2024   | 28 days       | 1 days |  |  |  |
| <b>Anions and Nutrients : Nitrate in Water by IC (Low Level)</b>   |                                 |            |   |                          |               |        |      |               |               |        |  |  |  |
| HDPE<br>WLNG EOP   |                                 | E235.NO3-L | 20-Aug-2024   | 21-Aug-2024              | 3 days        | 1 days | ✓    | 21-Aug-2024   | 3 days        | 1 days |  |  |  |
| <b>Anions and Nutrients : Nitrite in Water by IC (Low Level)</b>   |                                 |            |   |                          |               |        |      |               |               |        |  |  |  |
| HDPE<br>WLNG EOP   |                                 | E235.NO2-L | 20-Aug-2024   | 21-Aug-2024              | 3 days        | 1 days | ✓    | 21-Aug-2024   | 3 days        | 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 |
| <b>Anions and Nutrients : Sulfate in Water by IC</b>  |            |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>WLNG EOP  | E235.SO4   | 20-Aug-2024   | 21-Aug-2024              | 28 days           | 1 days               | ✓    | 21-Aug-2024   | 28 days           | 1 days               |
| <b>Anions and Nutrients : Total Nitrogen by Colourimetry</b>  |            |               |                          |                   |                      |      |               |                   |                      |
| Amber glass total (sulfuric acid)<br>WLNG EOP   | E366       | 20-Aug-2024   | 20-Aug-2024              | 28 days           | 0 days               | ✓    | 21-Aug-2024   | 28 days           | 1 days               |
| <b>Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)</b>                           |            |               |                          |                   |                      |      |               |                   |                      |
| Amber glass total (sulfuric acid)<br>WLNG EOP   | E372-U     | 20-Aug-2024   | 20-Aug-2024              | 28 days           | 0 days               | ✓    | 22-Aug-2024   | 28 days           | 2 days               |
| <b>Dissolved Metals : Dissolved Mercury in Water by CVAAS</b>   |            |               |                          |                   |                      |      |               |                   |                      |
| Glass vial - dissolved (lab preserved)<br>WLNG EOP  | E509       | 20-Aug-2024   | 22-Aug-2024              | 28 days           | 2 days               | ✓    | 22-Aug-2024   | 28 days           | 2 days               |
| <b>Dissolved Metals : Dissolved Metals in Water by CRC ICPMS</b>                                      |            |               |                          |                   |                      |      |               |                   |                      |
| HDPE - dissolved (lab preserved)<br>WLNG EOP  | E421       | 20-Aug-2024   | 21-Aug-2024              | 180 days          | 1 days               | ✓    | 23-Aug-2024   | 180 days          | 3 days               |
| <b>Field Tests : Field pH,EC,Salinity, TDS, Cl2,ClO2,ORP,DO, Turbidity,T,T-P,o-PO4,NH3,Chloramine</b> |            |               |                          |                   |                      |      |               |                   |                      |
| Amber glass dissolved (lab preserved)<br>WLNG EOP   | EF001      | 20-Aug-2024   | ----                     | ----              | ----                 |      | 21-Aug-2024   | ----              | 1 days               |
| <b>Glycols : Glycols (4 analytes) by GC-FID</b>   |            |               |                          |                   |                      |      |               |                   |                      |
| Glass vial<br>WLNG EOP  | E680E      | 20-Aug-2024   | 22-Aug-2024              | 7 days            | 2 days               | ✓    | 22-Aug-2024   | 40 days           | 0 days               |
| <b>Hydrocarbons : BC PHCs - EPH by GC-FID</b>   |            |               |                          |                   |                      |      |               |                   |                      |
| Amber glass/Teflon lined cap (sodium bisulfate)<br>WLNG EOP   | E601A      | 20-Aug-2024   | 27-Aug-2024              | 14 days           | 7 days               | ✓    | 28-Aug-2024   | 40 days           | 1 days               |
| <b>Hydrocarbons : VH and F1 by Headspace GC-FID</b>   |            |               |                          |                   |                      |      |               |                   |                      |
| Glass vial (sodium bisulfate)<br>WLNG EOP   | E581.VH+F1 | 20-Aug-2024   | 27-Aug-2024              | 14 days           | 7 days               | ✓    | 27-Aug-2024   | 14 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 Rec | Holding Times Actual | Eval | Analysis Date | Holding Times Rec | Holding Times Actual | Eval |
| <b>Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)</b> |        |               |                          |                   |                      |      |               |                   |                      |      |
| Amber glass dissolved (lab preserved)<br>WLNG EOP                                      | E358-L | 20-Aug-2024   | 20-Aug-2024              | 3 days            | 0 days               | ✓    | 21-Aug-2024   | 28 days           | 0 days               | ✓    |
| <b>Physical Tests : Alkalinity Species by Titration</b>                                |        |               |                          |                   |                      |      |               |                   |                      |      |
| HDPE<br>WLNG EOP   | E290   | 20-Aug-2024   | 21-Aug-2024              | 14 days           | 1 days               | ✓    | 21-Aug-2024   | 14 days           | 1 days               | ✓    |
| <b>Physical Tests : TDS by Gravimetry</b>  |        |               |                          |                   |                      |      |               |                   |                      |      |
| HDPE<br>WLNG EOP   | E162   | 20-Aug-2024   | ---                      | ---               | ---                  |      | 26-Aug-2024   | 7 days            | 6 days               | ✓    |
| <b>Physical Tests : TSS by Gravimetry</b>  |        |               |                          |                   |                      |      |               |                   |                      |      |
| HDPE<br>WLNG EOP   | E160   | 20-Aug-2024   | ---                      | ---               | ---                  |      | 26-Aug-2024   | 7 days            | 6 days               | ✓    |
| <b>Polycyclic Aromatic Hydrocarbons : PAHs in Water by Hexane LVI GC-MS</b>            |        |               |                          |                   |                      |      |               |                   |                      |      |
| Amber glass/Teflon lined cap (sodium bisulfate)<br>WLNG EOP                            | E641A  | 20-Aug-2024   | 27-Aug-2024              | 14 days           | 7 days               | ✓    | 27-Aug-2024   | 40 days           | 0 days               | ✓    |
| <b>Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC</b>                      |        |               |                          |                   |                      |      |               |                   |                      |      |
| UV-inhibited HDPE - total (sodium hydroxide)<br>WLNG EOP                               | E532   | 20-Aug-2024   | ---                      | ---               | ---                  |      | 23-Aug-2024   | 28 days           | 3 days               | ✓    |
| <b>Total Metals : Total Mercury in Water by CVAAS</b>                                  |        |               |                          |                   |                      |      |               |                   |                      |      |
| Glass vial - total (lab preserved)<br>WLNG EOP   | E508   | 20-Aug-2024   | 22-Aug-2024              | 28 days           | 2 days               | ✓    | 22-Aug-2024   | 28 days           | 2 days               | ✓    |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>                               |        |               |                          |                   |                      |      |               |                   |                      |      |
| HDPE - total (lab preserved)<br>WLNG EOP   | E420   | 20-Aug-2024   | 21-Aug-2024              | 180 days          | 1 days               | ✓    | 22-Aug-2024   | 180 days          | 2 days               | ✓    |
| <b>Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)</b>                 |        |               |                          |                   |                      |      |               |                   |                      |      |
| HDPE total (zinc acetate+sodium hydroxide)<br>WLNG EOP                                 | E395   | 20-Aug-2024   | ---                      | ---               | ---                  |      | 24-Aug-2024   | 7 days            | 4 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 |        |      | Analysis Date | Holding Times |        |  |
|  |        |               |                          | Rec           | Actual |      |               | Rec           | Actual |  |
| Volatile Organic Compounds : VOCs (BC List) by Headspace GC-MS |        |               |                          |               |        |      |               |               |        |  |
| Glass vial (sodium bisulfate)<br>WLNG EOP                      | E611C  | 20-Aug-2024   | 27-Aug-2024              | 14 days       | 7 days | ✓    | 27-Aug-2024   | 14 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 |   |
| <b>Laboratory Duplicates (DUP)</b>                 |                    |            |          |       |         |               |          |   |
| Alkalinity Species by Titration                    |                    | E290       | 1607345  | 1     | 15      | 6.6           | 5.0      | ✓ |
| Ammonia by Fluorescence                            |                    | E298       | 1607078  | 1     | 13      | 7.6           | 5.0      | ✓ |
| Bromide in Water by IC (Low Level)                 |                    | E235.Br-L  | 1607350  | 1     | 8       | 12.5          | 5.0      | ✓ |
| Chloride in Water by IC                            |                    | E235.Cl    | 1607349  | 1     | 15      | 6.6           | 5.0      | ✓ |
| Dissolved Mercury in Water by CVAAS                |                    | E509       | 1610589  | 1     | 20      | 5.0           | 5.0      | ✓ |
| Dissolved Metals in Water by CRC ICPMS             |                    | E421       | 1607992  | 1     | 12      | 8.3           | 5.0      | ✓ |
| Dissolved Organic Carbon by Combustion (Low Level) |                    | E358-L     | 1607079  | 1     | 8       | 12.5          | 5.0      | ✓ |
| Fluoride in Water by IC                            |                    | E235.F     | 1607348  | 1     | 15      | 6.6           | 5.0      | ✓ |
| Glycols (4 analytes) by GC-FID                     |                    | E680E      | 1610325  | 1     | 3       | 33.3          | 5.0      | ✓ |
| Nitrate in Water by IC (Low Level)                 |                    | E235.NO3-L | 1607351  | 1     | 15      | 6.6           | 5.0      | ✓ |
| Nitrite in Water by IC (Low Level)                 |                    | E235.NO2-L | 1607352  | 1     | 15      | 6.6           | 5.0      | ✓ |
| Phenols (4AAP) in Water by Colorimetry             |                    | E562       | 1613081  | 1     | 16      | 6.2           | 5.0      | ✓ |
| Sulfate in Water by IC                             |                    | E235.SO4   | 1607353  | 1     | 15      | 6.6           | 5.0      | ✓ |
| TDS by Gravimetry                                  |                    | E162       | 1617393  | 1     | 20      | 5.0           | 5.0      | ✓ |
| Total Hexavalent Chromium (Cr VI) by IC            |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      | ✓ |
| Total Mercury in Water by CVAAS                    |                    | E508       | 1610399  | 1     | 15      | 6.6           | 5.0      | ✓ |
| Total Metals in Water by CRC ICPMS                 |                    | E420       | 1607119  | 1     | 18      | 5.5           | 5.0      | ✓ |
| Total Nitrogen by Colourimetry                     |                    | E366       | 1607076  | 1     | 13      | 7.6           | 5.0      | ✓ |
| Total Phosphorus by Colourimetry (0.002 mg/L)      |                    | E372-U     | 1607077  | 1     | 13      | 7.6           | 5.0      | ✓ |
| Total Sulfide by Colourimetry (Automated Flow)     |                    | E395       | 1614424  | 1     | 17      | 5.8           | 5.0      | ✓ |
| TSS by Gravimetry                                  |                    | E160       | 1617384  | 1     | 20      | 5.0           | 5.0      | ✓ |
| VH and F1 by Headspace GC-FID                      |                    | E581.VH+F1 | 1617789  | 1     | 12      | 8.3           | 5.0      | ✓ |
| VOCs (BC List) by Headspace GC-MS                  |                    | E611C      | 1617788  | 1     | 20      | 5.0           | 5.0      | ✓ |
| <b>Laboratory Control Samples (LCS)</b>            |                    |            |          |       |         |               |          |   |
| Alkalinity Species by Titration                    |                    | E290       | 1607345  | 1     | 15      | 6.6           | 5.0      | ✓ |
| Ammonia by Fluorescence                            |                    | E298       | 1607078  | 1     | 13      | 7.6           | 5.0      | ✓ |
| BC PHCs - EPH by GC-FID                            |                    | E601A      | 1618885  | 1     | 10      | 10.0          | 5.0      | ✓ |
| Bromide in Water by IC (Low Level)                 |                    | E235.Br-L  | 1607350  | 1     | 8       | 12.5          | 5.0      | ✓ |
| Chloride in Water by IC                            |                    | E235.Cl    | 1607349  | 1     | 15      | 6.6           | 5.0      | ✓ |
| Dissolved Mercury in Water by CVAAS                |                    | E509       | 1610589  | 1     | 20      | 5.0           | 5.0      | ✓ |
| Dissolved Metals in Water by CRC ICPMS             |                    | E421       | 1607992  | 1     | 12      | 8.3           | 5.0      | ✓ |
| Dissolved Organic Carbon by Combustion (Low Level) |                    | E358-L     | 1607079  | 1     | 8       | 12.5          | 5.0      | ✓ |
| Fluoride in Water by IC                            |                    | E235.F     | 1607348  | 1     | 15      | 6.6           | 5.0      | ✓ |
| Glycols (4 analytes) by GC-FID                     |                    | E680E      | 1610325  | 1     | 3       | 33.3          | 5.0      | ✓ |
| Nitrate in Water by IC (Low Level)                 |                    | E235.NO3-L | 1607351  | 1     | 15      | 6.6           | 5.0      | ✓ |
| Nitrite in Water by IC (Low Level)                 |                    | E235.NO2-L | 1607352  | 1     | 15      | 6.6           | 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 |
| <b>Laboratory Control Samples (LCS) - Continued</b> |                    |            |          |       |         |               |          |
| PAHs in Water by Hexane LVI GC-MS                   |                    | E641A      | 1618884  | 1     | 9       | 11.1          | 5.0      |
| Phenols (4AAP) in Water by Colorimetry              |                    | E562       | 1613081  | 1     | 16      | 6.2           | 5.0      |
| Sulfate in Water by IC                              |                    | E235.SO4   | 1607353  | 1     | 15      | 6.6           | 5.0      |
| TDS by Gravimetry                                   |                    | E162       | 1617393  | 1     | 20      | 5.0           | 5.0      |
| Total Hexavalent Chromium (Cr VI) by IC             |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      |
| Total Mercury in Water by CVAAS                     |                    | E508       | 1610399  | 1     | 15      | 6.6           | 5.0      |
| Total Metals in Water by CRC ICPMS                  |                    | E420       | 1607119  | 1     | 18      | 5.5           | 5.0      |
| Total Nitrogen by Colourimetry                      |                    | E366       | 1607076  | 1     | 13      | 7.6           | 5.0      |
| Total Phosphorus by Colourimetry (0.002 mg/L)       |                    | E372-U     | 1607077  | 1     | 13      | 7.6           | 5.0      |
| Total Sulfide by Colourimetry (Automated Flow)      |                    | E395       | 1614424  | 1     | 17      | 5.8           | 5.0      |
| TSS by Gravimetry                                   |                    | E160       | 1617384  | 1     | 20      | 5.0           | 5.0      |
| VH and F1 by Headspace GC-FID                       |                    | E581.VH+F1 | 1617789  | 1     | 12      | 8.3           | 5.0      |
| VOCs (BC List) by Headspace GC-MS                   |                    | E611C      | 1617788  | 1     | 20      | 5.0           | 5.0      |
| <b>Method Blanks (MB)</b>                           |                    |            |          |       |         |               |          |
| Alkalinity Species by Titration                     |                    | E290       | 1607345  | 1     | 15      | 6.6           | 5.0      |
| Ammonia by Fluorescence                             |                    | E298       | 1607078  | 1     | 13      | 7.6           | 5.0      |
| BC PHCs - EPH by GC-FID                             |                    | E601A      | 1618885  | 1     | 10      | 10.0          | 5.0      |
| Bromide in Water by IC (Low Level)                  |                    | E235.Br-L  | 1607350  | 1     | 8       | 12.5          | 5.0      |
| Chloride in Water by IC                             |                    | E235.Cl    | 1607349  | 1     | 15      | 6.6           | 5.0      |
| Dissolved Mercury in Water by CVAAS                 |                    | E509       | 1610589  | 1     | 20      | 5.0           | 5.0      |
| Dissolved Metals in Water by CRC ICPMS              |                    | E421       | 1607992  | 1     | 12      | 8.3           | 5.0      |
| Dissolved Organic Carbon by Combustion (Low Level)  |                    | E358-L     | 1607079  | 1     | 8       | 12.5          | 5.0      |
| Fluoride in Water by IC                             |                    | E235.F     | 1607348  | 1     | 15      | 6.6           | 5.0      |
| Glycols (4 analytes) by GC-FID                      |                    | E680E      | 1610325  | 1     | 3       | 33.3          | 5.0      |
| Nitrate in Water by IC (Low Level)                  |                    | E235.NO3-L | 1607351  | 1     | 15      | 6.6           | 5.0      |
| Nitrite in Water by IC (Low Level)                  |                    | E235.NO2-L | 1607352  | 1     | 15      | 6.6           | 5.0      |
| PAHs in Water by Hexane LVI GC-MS                   |                    | E641A      | 1618884  | 1     | 9       | 11.1          | 5.0      |
| Phenols (4AAP) in Water by Colorimetry              |                    | E562       | 1613081  | 1     | 16      | 6.2           | 5.0      |
| Sulfate in Water by IC                              |                    | E235.SO4   | 1607353  | 1     | 15      | 6.6           | 5.0      |
| TDS by Gravimetry                                   |                    | E162       | 1617393  | 1     | 20      | 5.0           | 5.0      |
| Total Hexavalent Chromium (Cr VI) by IC             |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      |
| Total Mercury in Water by CVAAS                     |                    | E508       | 1610399  | 1     | 15      | 6.6           | 5.0      |
| Total Metals in Water by CRC ICPMS                  |                    | E420       | 1607119  | 1     | 18      | 5.5           | 5.0      |
| Total Nitrogen by Colourimetry                      |                    | E366       | 1607076  | 1     | 13      | 7.6           | 5.0      |
| Total Phosphorus by Colourimetry (0.002 mg/L)       |                    | E372-U     | 1607077  | 1     | 13      | 7.6           | 5.0      |
| Total Sulfide by Colourimetry (Automated Flow)      |                    | E395       | 1614424  | 1     | 17      | 5.8           | 5.0      |
| TSS by Gravimetry                                   |                    | E160       | 1617384  | 1     | 20      | 5.0           | 5.0      |
| VH and F1 by Headspace GC-FID                       |                    | E581.VH+F1 | 1617789  | 1     | 12      | 8.3           | 5.0      |
| VOCs (BC List) by Headspace GC-MS                   |                    | E611C      | 1617788  | 1     | 20      | 5.0           | 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 | Evaluation |
| <b>Matrix Spikes (MS)</b>                          |                    |            |          |       |         |               |          |            |
| Ammonia by Fluorescence                            |                    | E298       | 1607078  | 1     | 13      | 7.6           | 5.0      | ✓          |
| Bromide in Water by IC (Low Level)                 |                    | E235.Br-L  | 1607350  | 1     | 8       | 12.5          | 5.0      | ✓          |
| Chloride in Water by IC                            |                    | E235.Cl    | 1607349  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Dissolved Mercury in Water by CVAAS                |                    | E509       | 1610589  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Dissolved Metals in Water by CRC ICPMS             |                    | E421       | 1607992  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Dissolved Organic Carbon by Combustion (Low Level) |                    | E358-L     | 1607079  | 1     | 8       | 12.5          | 5.0      | ✓          |
| Fluoride in Water by IC                            |                    | E235.F     | 1607348  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Nitrate in Water by IC (Low Level)                 |                    | E235.NO3-L | 1607351  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Nitrite in Water by IC (Low Level)                 |                    | E235.NO2-L | 1607352  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Phenols (4AAP) in Water by Colorimetry             |                    | E562       | 1613081  | 1     | 16      | 6.2           | 5.0      | ✓          |
| Sulfate in Water by IC                             |                    | E235.SO4   | 1607353  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Total Hexavalent Chromium (Cr VI) by IC            |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Total Mercury in Water by CVAAS                    |                    | E508       | 1610399  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Total Metals in Water by CRC ICPMS                 |                    | E420       | 1607119  | 1     | 18      | 5.5           | 5.0      | ✓          |
| Total Nitrogen by Colourimetry                     |                    | E366       | 1607076  | 1     | 13      | 7.6           | 5.0      | ✓          |
| Total Phosphorus by Colourimetry (0.002 mg/L)      |                    | E372-U     | 1607077  | 1     | 13      | 7.6           | 5.0      | ✓          |
| Total Sulfide by Colourimetry (Automated Flow)     |                    | E395       | 1614424  | 1     | 17      | 5.8           | 5.0      | ✓          |
| VH and F1 by Headspace GC-FID                      |                    | E581.VH+F1 | 1617789  | 1     | 12      | 8.3           | 5.0      | ✓          |
| VOCs (BC List) by Headspace GC-MS                  |                    | E611C      | 1617788  | 1     | 20      | 5.0           | 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").

| <b>Analytical Methods</b>          | <b>Method / Lab</b>                         | <b>Matrix</b> | <b>Method Reference</b> | <b>Method Descriptions</b>  |
|------------------------------------|---|---------------|-------------------------|---|
| TSS by Gravimetry                  | E160<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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 <sub>2</sub> . 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<br>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<br>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<br>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 <sub>2</sub> S" if reported represent the maximum possible H <sub>2</sub> S concentration based on the total sulfide concentration in the sample. The H <sub>2</sub> S calculation converts Total Sulphide as (S <sup>2-</sup> ) and reports it as Total Sulphide as (H <sub>2</sub> S)  |
| Total Metals in Water by CRC ICPMS                 | E420<br>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<br>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<br>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<br>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<br>ALS Environmental - Waterloo        | 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>   |
| Phenols (4AAP) in Water by Colorimetry  | E562<br>ALS Environmental - Edmonton        | Water  | EPA 9066  | This automated method is based on the distillation of phenol and subsequent reaction of the distillate with alkaline ferricyanide (K3Fe(CN)6) and 4-amino-antipyrine (4-AAP) to form a red complex which is measured colorimetrically.  |
| VH and F1 by Headspace GC-FID           | E581.VH+F1<br>ALS Environmental - Vancouver | Water  | BC MOE Lab Manual / CCME PHC in Soil - Tier 1 (mod) | <p>Volatile Hydrocarbons (VH and F1) is analyzed by static headspace GC-FID. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.</p> <p>Analytical methods for CCME Petroleum Hydrocarbons (PHCs) are validated to comply fully with the Reference Method for the Canada-Wide Standard for PHC. Unless qualified, all required quality control criteria of the CCME PHC method have been met, including response factor and linearity requirements.</p>         |
| BC PHCs - EPH by GC-FID                 | E601A<br>ALS Environmental - Vancouver      | Water  | BC MOE Lab Manual                                   | Sample extracts are analyzed by GC-FID for BC hydrocarbon fractions.  |
| VOCs (BC List) by Headspace GC-MS       | E611C<br>ALS Environmental - Vancouver      | Water  | EPA 8260D (mod)                                     | <p>Volatile Organic Compounds (VOCs) are analyzed by static headspace GC-MS. Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler, causing VOCs to partition between the aqueous phase and the headspace in accordance with Henry's law.</p> <p>Total Xylenes is the sum of m,p-Xylene &amp; o-Xylene. Total BTEX is the sum of Benzene, Toluene, Ethylbenzene, &amp; Total Xylenes. Total BTEX+Styrene is the sum of Total BTEX &amp; Styrene. Total Trihalomethanes [THMs] is the sum of Bromodichloromethane, Bromoform, Chloroform, &amp; Dibromochloromethane.</p> |
| PAHs in Water by Hexane LVI GC-MS       | E641A<br>ALS Environmental - Vancouver      | Water  | EPA 8270E (mod)                                     | Polycyclic Aromatic Hydrocarbons (PAHs) are analyzed by large volume injection (LVI) GC-MS.   |
| Glycols (4 analytes) by GC-FID          | E680E<br>ALS Environmental - Vancouver      | Water  | EPA 8015D (mod)                                     | Derivatized glycols are analyzed by GC-FID.   |
| Dissolved Hardness (Calculated)         | EC100<br>ALS Environmental - Vancouver      | Water  | APHA 2340B  | "Hardness (as CaCO <sub>3</sub> ), dissolved" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO <sub>3</sub> 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.   |



| Analytical Methods   |  | Method / Lab                            | Matrix | Method Reference                                  | Method Descriptions   |
|--|--|---|--------|---|---|
| Hardness (Calculated) from Total Ca/Mg   |  | EC100A<br>ALS Environmental - Vancouver | Water  | APHA 2340B  | "Hardness (as CaCO <sub>3</sub> ), from total Ca/Mg" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO <sub>3</sub> 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<br>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<br>ALS Environmental - Waterloo   | 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.   |
| VPH: VH-BTEX-Styrene   |  | EC580A<br>ALS Environmental - Vancouver | Water  | BC MOE Lab Manual (VPH in Water and Solids) (mod) | Volatile Petroleum Hydrocarbons (VPH) is calculated as follows: VPHw = Volatile Hydrocarbons (VH C <sub>6</sub> -C <sub>10</sub> ) minus benzene, toluene, ethylbenzene, xylenes (BTEX) and styrene.  |
| LEPH and HEPH: EPH-PAH   |  | EC600A<br>ALS Environmental - Vancouver | Water  | BC MOE Lab Manual (LEPH and HEPH)                 | Light Extractable Petroleum Hydrocarbons (LEPH) and Heavy Extractable Petroleum Hydrocarbons (HEPH) are calculated as follows: LEPH = Extractable Petroleum Hydrocarbons (EPH10-19) minus Acenaphthene, Acridine, Anthracene, Fluorene, Naphthalene and Phenanthrene; HEPH = Extractable Petroleum Hydrocarbons (EPH19-32) minus Benz(a)anthracene, Benzo(a)pyrene, Fluoranthene, and Pyrene.   |
| Field pH,EC,Salinity, TDS, Cl <sub>2</sub> ,ClO <sub>2</sub> ,ORP,DO, Turbidity,T,T-P,o-PO <sub>4</sub> ,NH <sub>3</sub> ,Chloramine |  | EF001<br>ALS Environmental - Vancouver  | Water  | Field Measurement (Client Supplied)               | Field pH,EC,Salinity, TDS, Cl <sub>2</sub> ,ClO <sub>2</sub> ,ORP,DO, Turbidity,T,T-P,o-PO <sub>4</sub> ,NH <sub>3</sub> 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<br>ALS Environmental - Vancouver | Water  |                      | Sample preparation for Preserved Nutrients Water Quality Analysis.   |
| Preparation for Dissolved Organic Carbon for Combustion |  | EP358<br>ALS Environmental - Vancouver | Water  | APHA 5310 B (mod)    | Preparation for Dissolved Organic Carbon   |
| Digestion for Total Nitrogen in water                   |  | EP366<br>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<br>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<br><br>ALS Environmental - Vancouver  | Water  | APHA 3030B       | Water samples are filtered (0.45 um), and preserved with HNO3.  |
| Dissolved Mercury Water Filtration              |  | EP509<br><br>ALS Environmental - Vancouver  | Water  | APHA 3030B       | Water samples are filtered (0.45 um), and preserved with HCl.   |
| VOCs Preparation for Headspace Analysis         |  | EP581<br><br>ALS Environmental - Vancouver  | Water  | EPA 5021A (mod)  | Samples are prepared in headspace vials and are heated and agitated on the headspace autosampler. An aliquot of the headspace is then injected into the GC/MS-FID system. |
| PHCs and PAHs Hexane Extraction                 |  | EP601<br><br>ALS Environmental - Vancouver  | Water  | EPA 3511 (mod)   | Petroleum Hydrocarbons (PHCs) and Polycyclic Aromatic Hydrocarbons (PAHs) are extracted using a hexane liquid-liquid extraction.  |
| Glycols Extraction and Derivatization (BC Only) |  | EP680E<br><br>ALS Environmental - Vancouver | Water  | EPA 8015D (mod)  | Aqueous sample is derivatized and extracted with organic solvent.   |

## QUALITY CONTROL REPORT

|                         |   |                         |                                 |
|-------------------------|---|-------------------------|---------------------------------|
| Work Order              | : VA24C1103                             | Page                    | : 1 of 23                       |
| Client                  | : Triton Environmental Consultants Ltd. | Laboratory              | : ALS Environmental - Vancouver |
| Contact                 |   | Account Manager         |                                 |
| Address                 |   | Address                 |                                 |
| Telephone               |   | Telephone               |                                 |
| Project                 | : 11964                                 | Date Samples Received   | : 20-Aug-2024 17:10             |
| PO                      | : 11964-Task30-Phase 3C-4C              | Date Analysis Commenced | : 20-Aug-2024                   |
| C-O-C number            | : ----                                  | Issue Date              | : 28-Aug-2024 15:59             |
| Sampler                 | : ----                                  |                         |                                 |
| Site                    | : Water Analysis                        |                         |                                 |
| Quote number            | : VA23-TRIT100-012 _V2                  |                         |                                 |
| No. of samples received | : 1                                     |                         |                                 |
| No. of samples analysed | : 1                                     |                         |                                 |

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                               |
|-------------|--|---|
|             | Lab Assistant                              | Vancouver Metals, Burnaby, British Columbia         |
|             | Laboratory Analyst                         | Edmonton Inorganics, Edmonton, Alberta              |
|             | Analyst                                    | Vancouver Metals, Burnaby, British Columbia         |
|             | Supervisor - Metals Prep & Mercury         | Vancouver Metals, Burnaby, British Columbia         |
|             | Production Manager, Environmental          | Waterloo Inorganics, Waterloo, Ontario              |
|             | Production Manager, Environmental          | Waterloo Metals, Waterloo, Ontario                  |
|             | Supervisor - Inorganic                     | Vancouver Inorganics, Burnaby, British Columbia     |
|             | Department Manager - Metals                | Vancouver Organics, Burnaby, British Columbia       |
|             | Analyst- General                           | Vancouver Inorganics, Burnaby, British Columbia     |
|             | Lab Analyst                                | Vancouver Metals, Burnaby, British Columbia         |
|             | Account Manager Assistant                  | Vancouver Administration, Burnaby, British Columbia |
|             | Supervisor - Water Quality Instrumentation | Vancouver Inorganics, Burnaby, British Columbia     |
|             | Analyst- General                           | Vancouver Organics, 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 |
| <b>Physical Tests (QC Lot: 1607345)</b>             |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| VA24C1109-001                                       | Anonymous        | Alkalinity, total (as CaCO <sub>3</sub> ) | ----       | E290       | 1.0     | mg/L | 15.0            | 14.9             | 0.673%               | 20%              | ----      |
| <b>Physical Tests (QC Lot: 1617384)</b>             |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| KS2403379-001                                       | Anonymous        | Solids, total suspended [TSS]             | ----       | E160       | 3.0     | mg/L | <3.0            | <3.0             | 0                    | Diff <2x LOR     | ----      |
| <b>Physical Tests (QC Lot: 1617393)</b>             |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| KS2403379-001                                       | Anonymous        | Solids, total dissolved [TDS]             | ----       | E162       | 20      | mg/L | 2420            | 2290             | 5.69%                | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 1607076)</b>       |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| VA24C0742-001                                       | Anonymous        | Nitrogen, total                           | 7727-37-9  | E366       | 0.030   | mg/L | 0.119           | 0.119            | 0.0002               | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607077)</b>       |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| VA24C0742-001                                       | Anonymous        | Phosphorus, total                         | 7723-14-0  | E372-U     | 0.0020  | mg/L | 0.0049          | 0.0049           | 0.00002              | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607078)</b>       |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| VA24C0742-001                                       | Anonymous        | Ammonia, total (as N)                     | 7664-41-7  | E298       | 0.0050  | mg/L | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607348)</b>       |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Fluoride                                  | 16984-48-8 | E235.F     | 0.020   | mg/L | 0.055           | 0.056            | 0.001                | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607349)</b>       |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Chloride                                  | 16887-00-6 | E235.Cl    | 0.50    | mg/L | 0.88            | 0.89             | 0.01                 | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607350)</b>       |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Bromide                                   | 24959-67-9 | E235.Br-L  | 0.050   | mg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607351)</b>       |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Nitrate (as N)                            | 14797-55-8 | E235.NO3-L | 0.0050  | mg/L | 0.442           | 0.452            | 2.07%                | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 1607352)</b>       |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Nitrite (as N)                            | 14797-65-0 | E235.NO2-L | 0.0010  | mg/L | 0.0015          | 0.0014           | 0.00006              | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607353)</b>       |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Sulfate (as SO <sub>4</sub> )             | 14808-79-8 | E235.SO4   | 0.30    | mg/L | 18.5            | 19.1             | 3.26%                | 20%              | ----      |
| <b>Organic / Inorganic Carbon (QC Lot: 1607079)</b> |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| VA24C0742-001                                       | Anonymous        | Carbon, dissolved organic [DOC]           | ----       | E358-L     | 0.50    | mg/L | 2.01            | 2.15             | 0.15                 | Diff <2x LOR     | ----      |
| <b>Total Sulfides (QC Lot: 1614424)</b>             |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| EO2407181-001                                       | Anonymous        | Sulfide, total (as S)                     | 18496-25-8 | E395       | 0.0015  | mg/L | <0.0015         | <0.0015          | 0                    | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 1607119)</b>               |                  |   |            |            |         |      |                 |                  |                      |                  |           |
| FJ2402452-017                                       | Anonymous        | Aluminum, total                           | 7429-90-5  | E420       | 0.0030  | mg/L | <0.0030         | <0.0030          | 0                    | Diff <2x LOR     | ----      |
|   |                  | Antimony, total                           | 7440-36-0  | E420       | 0.00010 | mg/L | <0.00010        | <0.00010         | 0                    | 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 |
|---|------------------|-------------------|------------|--------|-----------|------|-----------------|------------------|----------------------|------------------|-----------|
| <b>Total Metals (QC Lot: 1607119) - continued</b> |                  |                   |            |        |           |      |                 |                  |                      |                  |           |
| FJ2402452-017                                     | Anonymous        | Arsenic, total    | 7440-38-2  | E420   | 0.00010   | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ---       |
|   |                  | Barium, total     | 7440-39-3  | E420   | 0.00010   | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ---       |
|   |                  | 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 | <0.010          | <0.010           | 0                    | Diff <2x LOR     | ---       |
|   |                  | Cadmium, total    | 7440-43-9  | E420   | 0.0000050 | mg/L | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ---       |
|   |                  | Calcium, total    | 7440-70-2  | E420   | 0.050     | mg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ---       |
|   |                  | 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 | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |
|   |                  | Cobalt, total     | 7440-48-4  | E420   | 0.00010   | mg/L | <0.00010        | <0.00010         | 0                    | 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 | <0.010          | <0.010           | 0                    | 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 | <0.0010         | <0.0010          | 0                    | Diff <2x LOR     | ---       |
|   |                  | Magnesium, total  | 7439-95-4  | E420   | 0.0050    | mg/L | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ---       |
|   |                  | Manganese, total  | 7439-96-5  | E420   | 0.00010   | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ---       |
|   |                  | Molybdenum, total | 7439-98-7  | E420   | 0.000050  | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Nickel, total     | 7440-02-0  | E420   | 0.00050   | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |
|   |                  | 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 | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ---       |
|   |                  | Rubidium, total   | 7440-17-7  | E420   | 0.00020   | mg/L | <0.00020        | <0.00020         | 0                    | Diff <2x LOR     | ---       |
|   |                  | Selenium, total   | 7782-49-2  | E420   | 0.000050  | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Silicon, total    | 7440-21-3  | E420   | 0.10      | mg/L | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ---       |
|   |                  | 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 | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ---       |
|   |                  | Strontium, total  | 7440-24-6  | E420   | 0.00020   | mg/L | <0.00020        | <0.00020         | 0                    | Diff <2x LOR     | ---       |
|   |                  | Sulfur, total     | 7704-34-9  | E420   | 0.50      | mg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |
|   |                  | 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 | <0.00030        | <0.00030         | 0                    | 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 | <0.000010       | <0.000010        | 0                    | 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 |
| <b>Total Metals (QC Lot: 1607119) - continued</b> |                  |                       |            |        |                                   |      |                 |                  |                      |                  |           |
| FJ2402452-017                                     | Anonymous        | Vanadium, total       | 7440-62-2  | E420   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | 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     | ---       |
| <b>Total Metals (QC Lot: 1610399)</b>             |                  |                       |            |        |                                   |      |                 |                  |                      |                  |           |
| VA24C0638-001                                     | Anonymous        | Mercury, total        | 7439-97-6  | E508   | 0.0000050                         | mg/L | 0.0000050       | 0.0000056        | 0.0000006            | Diff <2x LOR     | ---       |
| <b>Dissolved Metals (QC Lot: 1607992)</b>         |                  |                       |            |        |                                   |      |                 |                  |                      |                  |           |
| VA24C0970-001                                     | Anonymous        | Aluminum, dissolved   | 7429-90-5  | E421   | 0.0050                            | mg/L | 0.0177          | 0.0162           | 0.0015               | Diff <2x LOR     | ---       |
|   |                  | Antimony, dissolved   | 7440-36-0  | E421   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |
|   |                  | Arsenic, dissolved    | 7440-38-2  | E421   | 0.00050                           | mg/L | 0.00512         | 0.00511          | 0.215%               | 20%              | ---       |
|   |                  | Barium, dissolved     | 7440-39-3  | E421   | 0.00050                           | mg/L | 0.160           | 0.159            | 0.414%               | 20%              | ---       |
|   |                  | Beryllium, dissolved  | 7440-41-7  | E421   | 0.000100                          | mg/L | <0.000100       | <0.000100        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Bismuth, dissolved    | 7440-69-9  | E421   | 0.000250                          | mg/L | <0.000250       | <0.000250        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Boron, dissolved      | 7440-42-8  | E421   | 0.050                             | mg/L | 1.34            | 1.37             | 2.46%                | 20%              | ---       |
|   |                  | Cadmium, dissolved    | 7440-43-9  | E421   | 0.0000250                         | mg/L | <0.0000250      | <0.0000250       | 0                    | Diff <2x LOR     | ---       |
|   |                  | Calcium, dissolved    | 7440-70-2  | E421   | 0.250                             | mg/L | 32.0            | 33.3             | 3.98%                | 20%              | ---       |
|   |                  | Cesium, dissolved     | 7440-46-2  | E421   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Chromium, dissolved   | 7440-47-3  | E421   | 0.00250                           | mg/L | 0.00397         | 0.00423          | 0.00026              | Diff <2x LOR     | ---       |
|   |                  | Cobalt, dissolved     | 7440-48-4  | E421   | 0.00050                           | mg/L | 0.00534         | 0.00533          | 0.176%               | 20%              | ---       |
|   |                  | Copper, dissolved     | 7440-50-8  | E421   | 0.00100                           | mg/L | <0.00100        | <0.00100         | 0                    | Diff <2x LOR     | ---       |
|   |                  | Iron, dissolved       | 7439-89-6  | E421   | 0.050                             | mg/L | 17.5            | 17.8             | 1.60%                | 20%              | ---       |
|   |                  | Lead, dissolved       | 7439-92-1  | E421   | 0.000250                          | mg/L | <0.000250       | <0.000250        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Lithium, dissolved    | 7439-93-2  | E421   | 0.0050                            | mg/L | 0.0168          | 0.0173           | 0.0005               | Diff <2x LOR     | ---       |
|   |                  | Magnesium, dissolved  | 7439-95-4  | E421   | 0.0250                            | mg/L | 83.7            | 84.6             | 1.08%                | 20%              | ---       |
|   |                  | Manganese, dissolved  | 7439-96-5  | E421   | 0.00050                           | mg/L | 0.586           | 0.598            | 2.14%                | 20%              | ---       |
|   |                  | Molybdenum, dissolved | 7439-98-7  | E421   | 0.000250                          | mg/L | 0.00155         | 0.00162          | 0.000069             | Diff <2x LOR     | ---       |
|   |                  | Nickel, dissolved     | 7440-02-0  | E421   | 0.00250                           | mg/L | 0.00448         | 0.00443          | 0.00005              | Diff <2x LOR     | ---       |
|   |                  | Phosphorus, dissolved | 7723-14-0  | E421   | 0.250                             | mg/L | 4.11            | 3.96             | 3.75%                | 20%              | ---       |
|   |                  | Potassium, dissolved  | 7440-09-7  | E421   | 0.250                             | mg/L | 41.1            | 41.1             | 0.0756%              | 20%              | ---       |
|   |                  | Rubidium, dissolved   | 7440-17-7  | E421   | 0.00100                           | mg/L | 0.00741         | 0.00737          | 0.00004              | Diff <2x LOR     | ---       |
|   |                  | Selenium, dissolved   | 7782-49-2  | E421   | 0.000250                          | mg/L | <0.000250       | <0.000250        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Silicon, dissolved    | 7440-21-3  | E421   | 0.250                             | mg/L | 27.6            | 27.2             | 1.27%                | 20%              | ---       |
|   |                  | Silver, dissolved     | 7440-22-4  | E421   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Sodium, dissolved     | 7440-23-5  | E421   | 0.250                             | mg/L | 789             | 784              | 0.705%               | 20%              | ---       |
|   |                  | Strontium, dissolved  | 7440-24-6  | E421   | 0.00100                           | mg/L | 0.423           | 0.450            | 6.15%                | 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 |  |
| <b>Dissolved Metals (QC Lot: 1607992) - continued</b> |                  |                                     |            |        |                                   |      |                 |                  |                      |                  |           |  |
| VA24C0970-001   | Anonymous        | Sulfur, dissolved                   | 7704-34-9  | E421   | 2.50                              | mg/L | <2.50           | <2.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Tellurium, dissolved                | 13494-80-9 | E421   | 0.00100                           | mg/L | <0.00100        | <0.00100         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Thallium, dissolved                 | 7440-28-0  | E421   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Thorium, dissolved                  | 7440-29-1  | E421   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Tin, dissolved                      | 7440-31-5  | E421   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Titanium, dissolved                 | 7440-32-6  | E421   | 0.00150                           | mg/L | 0.0132          | 0.0138           | 0.00058              | Diff <2x LOR     | ---       |  |
|   |                  | Tungsten, dissolved                 | 7440-33-7  | E421   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Uranium, dissolved                  | 7440-61-1  | E421   | 0.000050                          | mg/L | 0.000114        | 0.000126         | 0.000012             | Diff <2x LOR     | ---       |  |
|   |                  | Vanadium, dissolved                 | 7440-62-2  | E421   | 0.00250                           | mg/L | 0.0106          | 0.0108           | 0.00021              | Diff <2x LOR     | ---       |  |
|   |                  | Zinc, dissolved                     | 7440-66-6  | E421   | 0.0050                            | mg/L | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Zirconium, dissolved                | 7440-67-7  | E421   | 0.00100                           | mg/L | 0.00522         | 0.00563          | 0.00041              | Diff <2x LOR     | ---       |  |
| <b>Dissolved Metals (QC Lot: 1610589)</b>             |                  |                                     |            |        |                                   |      |                 |                  |                      |                  |           |  |
| VA24C0781-003   | Anonymous        | Mercury, dissolved                  | 7439-97-6  | E509   | 0.0000050                         | mg/L | <0.0050 µg/L    | <0.0000050       | 0                    | Diff <2x LOR     | ---       |  |
| <b>Speciated Metals (QC Lot: 1612282)</b>             |                  |                                     |            |        |                                   |      |                 |                  |                      |                  |           |  |
| VA24C0997-001   | Anonymous        | Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532   | 0.00050                           | mg/L | <0.50 µg/L      | <0.00050         | 0                    | Diff <2x LOR     | ---       |  |
| <b>Aggregate Organics (QC Lot: 1613081)</b>           |                  |                                     |            |        |                                   |      |                 |                  |                      |                  |           |  |
| CG2411751-001   | Anonymous        | Phenols, total (4AAP)               | ----       | E562   | 0.0010                            | mg/L | <0.0010         | <0.0010          | 0                    | Diff <2x LOR     | ---       |  |
| <b>Volatile Organic Compounds (QC Lot: 1617788)</b>   |                  |                                     |            |        |                                   |      |                 |                  |                      |                  |           |  |
| KS2403291-001   | Anonymous        | Benzene                             | 71-43-2    | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Bromodichloromethane                | 75-27-4    | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Bromoform                           | 75-25-2    | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Carbon tetrachloride                | 56-23-5    | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Chlorobenzene                       | 108-90-7   | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Chloroethane                        | 75-00-3    | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Chloroform                          | 67-66-3    | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Chloromethane                       | 74-87-3    | E611C  | 5.0                               | µg/L | <5.0            | <5.0             | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dibromochloromethane                | 124-48-1   | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dichlorobenzene, 1,2-               | 95-50-1    | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dichlorobenzene, 1,3-               | 541-73-1   | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dichlorobenzene, 1,4-               | 106-46-7   | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dichloroethane, 1,1-                | 75-34-3    | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dichloroethane, 1,2-                | 107-06-2   | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dichloroethylene, 1,1-              | 75-35-4    | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dichloroethylene, cis-1,2-          | 156-59-2   | E611C  | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | 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 |  |
| <b>Volatile Organic Compounds (QC Lot: 1617788) - continued</b> |                  |                                |             |            |                                   |      |                 |                  |                      |                  |           |  |
| KS2403291-001   | Anonymous        | Dichlorethylene, trans-1,2-    | 156-60-5    | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dichloromethane                | 75-09-2     | E611C      | 1.0                               | µg/L | <1.0            | <1.0             | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dichloropropane, 1,2-          | 78-87-5     | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dichloropropylene, cis-1,3-    | 10061-01-5  | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Dichloropropylene, trans-1,3-  | 10061-02-6  | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Ethylbenzene                   | 100-41-4    | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Methyl-tert-butyl ether [MTBE] | 1634-04-4   | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Styrene                        | 100-42-5    | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Tetrachloroethane, 1,1,1,2-    | 630-20-6    | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Tetrachloroethane, 1,1,2,2-    | 79-34-5     | E611C      | 0.20                              | µg/L | <0.20           | <0.20            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Tetrachloroethylene            | 127-18-4    | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Toluene                        | 108-88-3    | E611C      | 0.40                              | µg/L | <0.40           | <0.40            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Trichloroethane, 1,1,1-        | 71-55-6     | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Trichloroethane, 1,1,2-        | 79-00-5     | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Trichloroethylene              | 79-01-6     | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Trichlorofluoromethane         | 75-69-4     | E611C      | 0.50                              | µg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Vinyl chloride                 | 75-01-4     | E611C      | 0.40                              | µg/L | <0.40           | <0.40            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Xylene, m+p-                   | 179601-23-1 | E611C      | 0.40                              | µg/L | <0.40           | <0.40            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Xylene, o-                     | 95-47-6     | E611C      | 0.30                              | µg/L | <0.30           | <0.30            | 0                    | Diff <2x LOR     | ---       |  |
| <b>Hydrocarbons (QC Lot: 1617789)</b>                           |                  |                                |             |            |                                   |      |                 |                  |                      |                  |           |  |
| VA24C1101-001   | Anonymous        | VHw (C6-C10)                   | ----        | E581.VH+F1 | 100                               | µg/L | <100            | <100             | 0.0%                 | 30%              | ----      |  |
| <b>Glycols (QC Lot: 1610325)</b>                                |                  |                                |             |            |                                   |      |                 |                  |                      |                  |           |  |
| KS2403316-003   | Anonymous        | Diethylene glycol              | 111-46-6    | E680E      | 5.0                               | mg/L | <5000 µg/L      | <5.0             | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Ethylene glycol                | 107-21-1    | E680E      | 5.0                               | mg/L | <5000 µg/L      | <5.0             | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Propylene glycol, 1,2-         | 57-55-6     | E680E      | 5.0                               | mg/L | <5000 µg/L      | <5.0             | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Triethylene glycol             | 112-27-6    | E680E      | 5.0                               | mg/L | <5000 µg/L      | <5.0             | 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 |
|--|------------|------------|--------|------|----------|-----------|
| <b>Physical Tests (QCLot: 1607345)</b>             |            |            |        |      |          |           |
| Alkalinity, total (as CaCO <sub>3</sub> )          | ---        | E290       | 1      | mg/L | <1.0     | ---       |
| <b>Physical Tests (QCLot: 1617384)</b>             |            |            |        |      |          |           |
| Solids, total suspended [TSS]                      | ---        | E160       | 3      | mg/L | <3.0     | ---       |
| <b>Physical Tests (QCLot: 1617393)</b>             |            |            |        |      |          |           |
| Solids, total dissolved [TDS]                      | ---        | E162       | 10     | mg/L | <10      | ---       |
| <b>Anions and Nutrients (QCLot: 1607076)</b>       |            |            |        |      |          |           |
| Nitrogen, total                                    | 7727-37-9  | E366       | 0.03   | mg/L | <0.030   | ---       |
| <b>Anions and Nutrients (QCLot: 1607077)</b>       |            |            |        |      |          |           |
| Phosphorus, total                                  | 7723-14-0  | E372-U     | 0.002  | mg/L | <0.0020  | ---       |
| <b>Anions and Nutrients (QCLot: 1607078)</b>       |            |            |        |      |          |           |
| Ammonia, total (as N)                              | 7664-41-7  | E298       | 0.005  | mg/L | <0.0050  | ---       |
| <b>Anions and Nutrients (QCLot: 1607348)</b>       |            |            |        |      |          |           |
| Fluoride   | 16984-48-8 | E235.F     | 0.02   | mg/L | <0.020   | ---       |
| <b>Anions and Nutrients (QCLot: 1607349)</b>       |            |            |        |      |          |           |
| Chloride   | 16887-00-6 | E235.Cl    | 0.5    | mg/L | <0.50    | ---       |
| <b>Anions and Nutrients (QCLot: 1607350)</b>       |            |            |        |      |          |           |
| Bromide  | 24959-67-9 | E235.Br-L  | 0.05   | mg/L | <0.050   | ---       |
| <b>Anions and Nutrients (QCLot: 1607351)</b>       |            |            |        |      |          |           |
| Nitrate (as N)                                     | 14797-55-8 | E235.NO3-L | 0.005  | mg/L | <0.0050  | ---       |
| <b>Anions and Nutrients (QCLot: 1607352)</b>       |            |            |        |      |          |           |
| Nitrite (as N)                                     | 14797-65-0 | E235.NO2-L | 0.001  | mg/L | <0.0010  | ---       |
| <b>Anions and Nutrients (QCLot: 1607353)</b>       |            |            |        |      |          |           |
| Sulfate (as SO <sub>4</sub> )                      | 14808-79-8 | E235.SO4   | 0.3    | mg/L | <0.30    | ---       |
| <b>Organic / Inorganic Carbon (QCLot: 1607079)</b> |            |            |        |      |          |           |
| Carbon, dissolved organic [DOC]                    | ---        | E358-L     | 0.5    | mg/L | <0.50    | ---       |
| <b>Total Sulfides (QCLot: 1614424)</b>             |            |            |        |      |          |           |
| Sulfide, total (as S)                              | 18496-25-8 | E395       | 0.0015 | mg/L | <0.0015  | ---       |
| <b>Total Metals (QCLot: 1607119)</b>               |            |            |        |      |          |           |
| 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 |
|--|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 1607119) - continued</b> |            |        |          |      |            |           |
| 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 |
|---|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QC Lot: 1610399)</b>     |            |        |          |      |            |           |
| Mercury, total                            | 7439-97-6  | E508   | 0.000005 | mg/L | <0.0000050 | ---       |
| <b>Dissolved Metals (QC Lot: 1607992)</b> |            |        |          |      |            |           |
| 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 |
|--|------------|--------|----------|------|------------|-----------|
| <b>Dissolved Metals (QCLot: 1607992) - continued</b> |            |        |          |      |            |           |
| 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   | ---       |
| <b>Dissolved Metals (QCLot: 1610589)</b>             |            |        |          |      |            |           |
| Mercury, dissolved                                   | 7439-97-6  | E509   | 0.000005 | mg/L | <0.0000050 | ---       |
| <b>Speciated Metals (QCLot: 1612282)</b>             |            |        |          |      |            |           |
| Chromium, hexavalent [Cr VI], total                  | 18540-29-9 | E532   | 0.0005   | mg/L | <0.00050   | ---       |
| <b>Aggregate Organics (QCLot: 1613081)</b>           |            |        |          |      |            |           |
| Phenols, total (4AAP)                                | ----       | E562   | 0.001    | mg/L | <0.0010    | ---       |
| <b>Volatile Organic Compounds (QCLot: 1617788)</b>   |            |        |          |      |            |           |
| Benzene  | 71-43-2    | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Bromodichloromethane                                 | 75-27-4    | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Bromoform  | 75-25-2    | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Carbon tetrachloride                                 | 56-23-5    | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Chlorobenzene  | 108-90-7   | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Chloroethane   | 75-00-3    | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Chloroform   | 67-66-3    | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Chloromethane  | 74-87-3    | E611C  | 5        | µg/L | <5.0       | ---       |
| Dibromochloromethane                                 | 124-48-1   | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Dichlorobenzene, 1,2-                                | 95-50-1    | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Dichlorobenzene, 1,3-                                | 541-73-1   | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Dichlorobenzene, 1,4-                                | 106-46-7   | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Dichloroethane, 1,1-                                 | 75-34-3    | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Dichloroethane, 1,2-                                 | 107-06-2   | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Dichloroethylene, 1,1-                               | 75-35-4    | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Dichloroethylene, cis-1,2-                           | 156-59-2   | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Dichloroethylene, trans-1,2-                         | 156-60-5   | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Dichloromethane                                      | 75-09-2    | E611C  | 1        | µg/L | <1.0       | ---       |
| Dichloropropane, 1,2-                                | 78-87-5    | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Dichloropropylene, cis-1,3-                          | 10061-01-5 | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Dichloropropylene, trans-1,3-                        | 10061-02-6 | E611C  | 0.5      | µg/L | <0.50      | ---       |
| Ethylbenzene   | 100-41-4   | E611C  | 0.5      | µg/L | <0.50      | ---       |



Sub-Matrix: Water

| Analyte  | CAS Number  | Method     | LOR   | Unit | Result  | Qualifier |
|--|-------------|------------|-------|------|---------|-----------|
| <b>Volatile Organic Compounds (QCLot: 1617788) - continued</b> |             |            |       |      |         |           |
| Methyl-tert-butyl ether [MTBE]                                 | 1634-04-4   | E611C      | 0.5   | µg/L | <0.50   | ---       |
| Styrene  | 100-42-5    | E611C      | 0.5   | µg/L | <0.50   | ---       |
| Tetrachloroethane, 1,1,1,2-                                    | 630-20-6    | E611C      | 0.5   | µg/L | <0.50   | ---       |
| Tetrachloroethane, 1,1,2,2-                                    | 79-34-5     | E611C      | 0.2   | µg/L | <0.20   | ---       |
| Tetrachloroethylene  | 127-18-4    | E611C      | 0.5   | µg/L | <0.50   | ---       |
| Toluene  | 108-88-3    | E611C      | 0.4   | µg/L | <0.40   | ---       |
| Trichloroethane, 1,1,1-  | 71-55-6     | E611C      | 0.5   | µg/L | <0.50   | ---       |
| Trichloroethane, 1,1,2-  | 79-00-5     | E611C      | 0.5   | µg/L | <0.50   | ---       |
| Trichloroethylene  | 79-01-6     | E611C      | 0.5   | µg/L | <0.50   | ---       |
| Trichlorofluoromethane   | 75-69-4     | E611C      | 0.5   | µg/L | <0.50   | ---       |
| Vinyl chloride   | 75-01-4     | E611C      | 0.4   | µg/L | <0.40   | ---       |
| Xylene, m+p-   | 179601-23-1 | E611C      | 0.4   | µg/L | <0.40   | ---       |
| Xylene, o-   | 95-47-6     | E611C      | 0.3   | µg/L | <0.30   | ---       |
| <b>Hydrocarbons (QCLot: 1617789)</b>                           |             |            |       |      |         |           |
| VHw (C6-C10)   | ----        | E581.VH+F1 | 100   | µg/L | <100    | ---       |
| <b>Hydrocarbons (QCLot: 1618885)</b>                           |             |            |       |      |         |           |
| EPH (C10-C19)  | ----        | E601A      | 250   | µg/L | <250    | ---       |
| EPH (C19-C32)  | ----        | E601A      | 250   | µg/L | <250    | ---       |
| <b>Polycyclic Aromatic Hydrocarbons (QCLot: 1618884)</b>       |             |            |       |      |         |           |
| Acenaphthene   | 83-32-9     | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Acenaphthylene   | 208-96-8    | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Acridine   | 260-94-6    | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Anthracene   | 120-12-7    | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Benz(a)anthracene  | 56-55-3     | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Benzo(a)pyrene   | 50-32-8     | E641A      | 0.005 | µg/L | <0.0050 | ---       |
| Benzo(b+j)fluoranthene   | n/a         | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Benzo(g,h,i)perylene   | 191-24-2    | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Benzo(k)fluoranthene   | 207-08-9    | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Chrysene   | 218-01-9    | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Dibenz(a,h)anthracene  | 53-70-3     | E641A      | 0.005 | µg/L | <0.0050 | ---       |
| Fluoranthene   | 206-44-0    | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Fluorene   | 86-73-7     | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Indeno(1,2,3-c,d)pyrene  | 193-39-5    | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Methylnaphthalene, 1-  | 90-12-0     | E641A      | 0.01  | µg/L | <0.010  | ---       |
| Methylnaphthalene, 2-  | 91-57-6     | E641A      | 0.01  | µg/L | <0.010  | ---       |

Sub-Matrix: Water

| Analyte  | CAS Number | Method | LOR  | Unit | Result | Qualifier |
|--|------------|--------|------|------|--------|-----------|
| <b>Polycyclic Aromatic Hydrocarbons (QCLot: 1618884) - continued</b> |            |        |      |      |        |           |
| Naphthalene  | 91-20-3    | E641A  | 0.05 | µg/L | <0.050 | ---       |
| Phenanthrene   | 85-01-8    | E641A  | 0.02 | µg/L | <0.020 | ---       |
| Pyrene   | 129-00-0   | E641A  | 0.01 | µg/L | <0.010 | ---       |
| Quinoline  | 91-22-5    | E641A  | 0.05 | µg/L | <0.050 | ---       |
| <b>Glycols (QCLot: 1610325)</b>                                      |            |        |      |      |        |           |
| Diethylene glycol  | 111-46-6   | E680E  | 5    | mg/L | <5.0   | ---       |
| Ethylene glycol  | 107-21-1   | E680E  | 5    | mg/L | <5.0   | ---       |
| Propylene glycol, 1,2-   | 57-55-6    | E680E  | 5    | mg/L | <5.0   | ---       |
| Triethylene glycol   | 112-27-6   | E680E  | 5    | mg/L | <5.0   | ---       |



## 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 |
| <b>Physical Tests (QCLot: 1607345)</b>             |  |            |              |                     |                      |      |      |      |           |
| Alkalinity, total (as CaCO <sub>3</sub> )          | ---                                    | E290       | 1            | mg/L                | 500 mg/L             | 104  | 85.0 | 115  | ---       |
| <b>Physical Tests (QCLot: 1617384)</b>             |  |            |              |                     |                      |      |      |      |           |
| Solids, total suspended [TSS]                      | ---                                    | E160       | 3            | mg/L                | 150 mg/L             | 96.7 | 85.0 | 115  | ---       |
| <b>Physical Tests (QCLot: 1617393)</b>             |  |            |              |                     |                      |      |      |      |           |
| Solids, total dissolved [TDS]                      | ---                                    | E162       | 10           | mg/L                | 1000 mg/L            | 95.6 | 85.0 | 115  | ---       |
| <b>Anions and Nutrients (QCLot: 1607076)</b>       |  |            |              |                     |                      |      |      |      |           |
| Nitrogen, total                                    | 7727-37-9                              | E366       | 0.03         | mg/L                | 0.5 mg/L             | 98.2 | 75.0 | 125  | ---       |
| <b>Anions and Nutrients (QCLot: 1607077)</b>       |  |            |              |                     |                      |      |      |      |           |
| Phosphorus, total                                  | 7723-14-0                              | E372-U     | 0.002        | mg/L                | 0.05 mg/L            | 93.5 | 80.0 | 120  | ---       |
| <b>Anions and Nutrients (QCLot: 1607078)</b>       |  |            |              |                     |                      |      |      |      |           |
| Ammonia, total (as N)                              | 7664-41-7                              | E298       | 0.005        | mg/L                | 0.2 mg/L             | 97.2 | 85.0 | 115  | ---       |
| <b>Anions and Nutrients (QCLot: 1607348)</b>       |  |            |              |                     |                      |      |      |      |           |
| Fluoride   | 16984-48-8                             | E235.F     | 0.02         | mg/L                | 1 mg/L               | 101  | 90.0 | 110  | ---       |
| <b>Anions and Nutrients (QCLot: 1607349)</b>       |  |            |              |                     |                      |      |      |      |           |
| Chloride   | 16887-00-6                             | E235.Cl    | 0.5          | mg/L                | 100 mg/L             | 101  | 90.0 | 110  | ---       |
| <b>Anions and Nutrients (QCLot: 1607350)</b>       |  |            |              |                     |                      |      |      |      |           |
| Bromide  | 24959-67-9                             | E235.Br-L  | 0.05         | mg/L                | 0.5 mg/L             | 99.4 | 85.0 | 115  | ---       |
| <b>Anions and Nutrients (QCLot: 1607351)</b>       |  |            |              |                     |                      |      |      |      |           |
| Nitrate (as N)                                     | 14797-55-8                             | E235.NO3-L | 0.005        | mg/L                | 2.5 mg/L             | 101  | 90.0 | 110  | ---       |
| <b>Anions and Nutrients (QCLot: 1607352)</b>       |  |            |              |                     |                      |      |      |      |           |
| Nitrite (as N)                                     | 14797-65-0                             | E235.NO2-L | 0.001        | mg/L                | 0.5 mg/L             | 98.6 | 90.0 | 110  | ---       |
| <b>Anions and Nutrients (QCLot: 1607353)</b>       |  |            |              |                     |                      |      |      |      |           |
| Sulfate (as SO <sub>4</sub> )                      | 14808-79-8                             | E235.SO4   | 0.3          | mg/L                | 100 mg/L             | 103  | 90.0 | 110  | ---       |
| <b>Organic / Inorganic Carbon (QCLot: 1607079)</b> |  |            |              |                     |                      |      |      |      |           |
| Carbon, dissolved organic [DOC]                    | ---                                    | E358-L     | 0.5          | mg/L                | 8.57 mg/L            | 99.3 | 80.0 | 120  | ---       |
| <b>Total Sulfides (QCLot: 1614424)</b>             |  |            |              |                     |                      |      |      |      |           |
| Sulfide, total (as S)                              | 18496-25-8                             | E395       | 0.0015       | mg/L                | 0.08 mg/L            | 108  | 80.0 | 120  | ---       |
| <b>Total Metals (QCLot: 1607119)</b>               |  |            |              |                     |                      |      |      |      |           |



Sub-Matrix: Water

| Analyte  | CAS Number | Method | LOR      | Unit | Laboratory Control Sample (LCS) Report |              |                     |     |           |
|--|------------|--------|----------|------|--|--------------|---------------------|-----|-----------|
|  |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |     | Qualifier |
| <b>Total Metals (QCLot: 1607119) - continued</b> |            |        |          |      |  |              |                     |     |           |
| Aluminum, total                                  | 7429-90-5  | E420   | 0.003    | mg/L | 2 mg/L                                 | 95.9         | 80.0                | 120 | ---       |
| Antimony, total                                  | 7440-36-0  | E420   | 0.0001   | mg/L | 1 mg/L                                 | 95.1         | 80.0                | 120 | ---       |
| Arsenic, total                                   | 7440-38-2  | E420   | 0.0001   | mg/L | 1 mg/L                                 | 107          | 80.0                | 120 | ---       |
| Barium, total                                    | 7440-39-3  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 102          | 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                                 | 95.9         | 80.0                | 120 | ---       |
| Boron, total                                     | 7440-42-8  | E420   | 0.01     | mg/L | 1 mg/L                                 | 91.9         | 80.0                | 120 | ---       |
| Cadmium, total                                   | 7440-43-9  | E420   | 0.000005 | mg/L | 0.1 mg/L                               | 104          | 80.0                | 120 | ---       |
| Calcium, total                                   | 7440-70-2  | E420   | 0.05     | mg/L | 50 mg/L                                | 99.8         | 80.0                | 120 | ---       |
| Cesium, total                                    | 7440-46-2  | E420   | 0.00001  | mg/L | 0.05 mg/L                              | 99.5         | 80.0                | 120 | ---       |
| Chromium, total                                  | 7440-47-3  | E420   | 0.0005   | mg/L | 0.25 mg/L                              | 104          | 80.0                | 120 | ---       |
| Cobalt, total                                    | 7440-48-4  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 101          | 80.0                | 120 | ---       |
| Copper, total                                    | 7440-50-8  | E420   | 0.0005   | mg/L | 0.25 mg/L                              | 103          | 80.0                | 120 | ---       |
| Iron, total                                      | 7439-89-6  | E420   | 0.01     | mg/L | 1 mg/L                                 | 101          | 80.0                | 120 | ---       |
| Lead, total                                      | 7439-92-1  | E420   | 0.00005  | mg/L | 0.5 mg/L                               | 99.5         | 80.0                | 120 | ---       |
| Lithium, total                                   | 7439-93-2  | E420   | 0.001    | mg/L | 0.25 mg/L                              | 97.8         | 80.0                | 120 | ---       |
| Magnesium, total                                 | 7439-95-4  | E420   | 0.005    | mg/L | 50 mg/L                                | 101          | 80.0                | 120 | ---       |
| Manganese, total                                 | 7439-96-5  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 107          | 80.0                | 120 | ---       |
| Molybdenum, total                                | 7439-98-7  | E420   | 0.00005  | mg/L | 0.25 mg/L                              | 99.8         | 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                                | 101          | 80.0                | 120 | ---       |
| Potassium, total                                 | 7440-09-7  | E420   | 0.05     | mg/L | 50 mg/L                                | 101          | 80.0                | 120 | ---       |
| Rubidium, total                                  | 7440-17-7  | E420   | 0.0002   | mg/L | 0.1 mg/L                               | 99.3         | 80.0                | 120 | ---       |
| Selenium, total                                  | 7782-49-2  | E420   | 0.00005  | mg/L | 1 mg/L                                 | 96.6         | 80.0                | 120 | ---       |
| Silicon, total                                   | 7440-21-3  | E420   | 0.1      | mg/L | 10 mg/L                                | 103          | 80.0                | 120 | ---       |
| Silver, total                                    | 7440-22-4  | E420   | 0.00001  | mg/L | 0.1 mg/L                               | 92.1         | 80.0                | 120 | ---       |
| Sodium, total                                    | 7440-23-5  | E420   | 0.05     | mg/L | 50 mg/L                                | 108          | 80.0                | 120 | ---       |
| Strontium, total                                 | 7440-24-6  | E420   | 0.0002   | mg/L | 0.25 mg/L                              | 104          | 80.0                | 120 | ---       |
| Sulfur, total                                    | 7704-34-9  | E420   | 0.5      | mg/L | 50 mg/L                                | 92.8         | 80.0                | 120 | ---       |
| Tellurium, total                                 | 13494-80-9 | E420   | 0.0002   | mg/L | 0.1 mg/L                               | 96.7         | 80.0                | 120 | ---       |
| Thallium, total                                  | 7440-28-0  | E420   | 0.00001  | mg/L | 1 mg/L                                 | 99.9         | 80.0                | 120 | ---       |
| Thorium, total                                   | 7440-29-1  | E420   | 0.0001   | mg/L | 0.1 mg/L                               | 98.1         | 80.0                | 120 | ---       |
| Tin, total                                       | 7440-31-5  | E420   | 0.0001   | mg/L | 0.5 mg/L                               | 98.3         | 80.0                | 120 | ---       |
| Titanium, total                                  | 7440-32-6  | E420   | 0.0003   | mg/L | 0.25 mg/L                              | 97.8         | 80.0                | 120 | ---       |
| Tungsten, total                                  | 7440-33-7  | E420   | 0.0001   | mg/L | 0.1 mg/L                               | 99.1         | 80.0                | 120 | ---       |
| Uranium, total                                   | 7440-61-1  | E420   | 0.00001  | mg/L | 0.005 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 |
| <b>Total Metals (QC Lot: 1607119) - continued</b> |            |        |          |      |  |              |                     |      |           |
| 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                               | 101          | 80.0                | 120  | ---       |
| Zirconium, total                                  | 7440-67-7  | E420   | 0.0002   | mg/L | 0.1 mg/L                               | 98.2         | 80.0                | 120  | ---       |
| <b>Total Metals (QC Lot: 1610399)</b>             |            |        |          |      |  |              |                     |      |           |
| Mercury, total                                    | 7439-97-6  | E508   | 0.000005 | mg/L | 0 mg/L                                 | 96.2         | 80.0                | 120  | ---       |
| <b>Dissolved Metals (QC Lot: 1607992)</b>         |            |        |          |      |  |              |                     |      |           |
| Aluminum, dissolved                               | 7429-90-5  | E421   | 0.001    | mg/L | 2 mg/L                                 | 96.2         | 80.0                | 120  | ---       |
| Antimony, dissolved                               | 7440-36-0  | E421   | 0.0001   | mg/L | 1 mg/L                                 | 98.6         | 80.0                | 120  | ---       |
| Arsenic, dissolved                                | 7440-38-2  | E421   | 0.0001   | mg/L | 1 mg/L                                 | 101          | 80.0                | 120  | ---       |
| Barium, dissolved                                 | 7440-39-3  | E421   | 0.0001   | mg/L | 0.25 mg/L                              | 105          | 80.0                | 120  | ---       |
| Beryllium, dissolved                              | 7440-41-7  | E421   | 0.00002  | mg/L | 0.1 mg/L                               | 98.8         | 80.0                | 120  | ---       |
| Bismuth, dissolved                                | 7440-69-9  | E421   | 0.00005  | mg/L | 1 mg/L                                 | 96.7         | 80.0                | 120  | ---       |
| Boron, dissolved                                  | 7440-42-8  | E421   | 0.01     | mg/L | 1 mg/L                                 | 93.2         | 80.0                | 120  | ---       |
| Cadmium, dissolved                                | 7440-43-9  | E421   | 0.000005 | mg/L | 0.1 mg/L                               | 98.9         | 80.0                | 120  | ---       |
| Calcium, dissolved                                | 7440-70-2  | E421   | 0.05     | mg/L | 50 mg/L                                | 100          | 80.0                | 120  | ---       |
| Cesium, dissolved                                 | 7440-46-2  | E421   | 0.00001  | mg/L | 0.05 mg/L                              | 97.7         | 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                              | 96.5         | 80.0                | 120  | ---       |
| Copper, dissolved                                 | 7440-50-8  | E421   | 0.0002   | mg/L | 0.25 mg/L                              | 97.2         | 80.0                | 120  | ---       |
| Iron, dissolved                                   | 7439-89-6  | E421   | 0.01     | mg/L | 1 mg/L                                 | 89.7         | 80.0                | 120  | ---       |
| Lead, dissolved                                   | 7439-92-1  | E421   | 0.00005  | mg/L | 0.5 mg/L                               | 97.6         | 80.0                | 120  | ---       |
| Lithium, dissolved                                | 7439-93-2  | E421   | 0.001    | mg/L | 0.25 mg/L                              | 96.2         | 80.0                | 120  | ---       |
| Magnesium, dissolved                              | 7439-95-4  | E421   | 0.005    | mg/L | 50 mg/L                                | 93.3         | 80.0                | 120  | ---       |
| Manganese, dissolved                              | 7439-96-5  | E421   | 0.0001   | mg/L | 0.25 mg/L                              | 99.4         | 80.0                | 120  | ---       |
| Molybdenum, dissolved                             | 7439-98-7  | E421   | 0.00005  | mg/L | 0.25 mg/L                              | 103          | 80.0                | 120  | ---       |
| Nickel, dissolved                                 | 7440-02-0  | E421   | 0.0005   | mg/L | 0.5 mg/L                               | 98.2         | 80.0                | 120  | ---       |
| Phosphorus, dissolved                             | 7723-14-0  | E421   | 0.05     | mg/L | 10 mg/L                                | 100          | 80.0                | 120  | ---       |
| Potassium, dissolved                              | 7440-09-7  | E421   | 0.05     | mg/L | 50 mg/L                                | 96.8         | 80.0                | 120  | ---       |
| Rubidium, dissolved                               | 7440-17-7  | E421   | 0.0002   | mg/L | 0.1 mg/L                               | 99.0         | 80.0                | 120  | ---       |
| Selenium, dissolved                               | 7782-49-2  | E421   | 0.00005  | mg/L | 1 mg/L                                 | 98.2         | 80.0                | 120  | ---       |
| Silicon, dissolved                                | 7440-21-3  | E421   | 0.05     | mg/L | 10 mg/L                                | 104          | 80.0                | 120  | ---       |
| Silver, dissolved                                 | 7440-22-4  | E421   | 0.00001  | mg/L | 0.1 mg/L                               | 94.1         | 80.0                | 120  | ---       |
| Sodium, dissolved                                 | 7440-23-5  | E421   | 0.05     | mg/L | 50 mg/L                                | 101          | 80.0                | 120  | ---       |
| Strontium, dissolved                              | 7440-24-6  | E421   | 0.0002   | mg/L | 0.25 mg/L                              | 107          | 80.0                | 120  | ---       |
| Sulfur, dissolved                                 | 7704-34-9  | E421   | 0.5      | mg/L | 50 mg/L                                | 83.0         | 80.0                | 120  | ---       |

Sub-Matrix: Water

|   |            |        |          |      | Laboratory Control Sample (LCS) Report |      |       |              |                     |           |
|---|------------|--------|----------|------|--|------|-------|--------------|---------------------|-----------|
| Analyte   | CAS Number | Method | LOR      | Unit | Target Concentration                   | LCS  | Spike | Recovery (%) | Recovery Limits (%) | Qualifier |
|   |            |        |          |      |  |      |       |              |                     |           |
| <b>Dissolved Metals (QC Lot: 1607992) - continued</b> |            |        |          |      |  |      |       |              |                     |           |
| 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                                 | 99.7 | 80.0  | 120          | ---                 |           |
| Thorium, dissolved                                    | 7440-29-1  | E421   | 0.0001   | mg/L | 0.1 mg/L                               | 93.3 | 80.0  | 120          | ---                 |           |
| Tin, dissolved  | 7440-31-5  | E421   | 0.0001   | mg/L | 0.5 mg/L                               | 99.8 | 80.0  | 120          | ---                 |           |
| Titanium, dissolved                                   | 7440-32-6  | E421   | 0.0003   | mg/L | 0.25 mg/L                              | 89.6 | 80.0  | 120          | ---                 |           |
| Tungsten, dissolved                                   | 7440-33-7  | E421   | 0.0001   | mg/L | 0.1 mg/L                               | 98.0 | 80.0  | 120          | ---                 |           |
| Uranium, dissolved                                    | 7440-61-1  | E421   | 0.00001  | mg/L | 0.005 mg/L                             | 96.8 | 80.0  | 120          | ---                 |           |
| Vanadium, dissolved                                   | 7440-62-2  | E421   | 0.0005   | mg/L | 0.5 mg/L                               | 98.0 | 80.0  | 120          | ---                 |           |
| Zinc, dissolved                                       | 7440-66-6  | E421   | 0.001    | mg/L | 0.5 mg/L                               | 95.2 | 80.0  | 120          | ---                 |           |
| Zirconium, dissolved                                  | 7440-67-7  | E421   | 0.0002   | mg/L | 0.1 mg/L                               | 99.2 | 80.0  | 120          | ---                 |           |
| Mercury, dissolved                                    | 7439-97-6  | E509   | 0.000005 | mg/L | 0 mg/L                                 | 97.0 | 80.0  | 120          | ---                 |           |
| <b>Speciated Metals (QC Lot: 1612282)</b>             |            |        |          |      |  |      |       |              |                     |           |
| Chromium, hexavalent [Cr VI], total                   | 18540-29-9 | E532   | 0.0005   | mg/L | 0.025 mg/L                             | 97.5 | 80.0  | 120          | ---                 |           |
| <b>Aggregate Organics (QC Lot: 1613081)</b>           |            |        |          |      |  |      |       |              |                     |           |
| Phenols, total (4AAP)                                 | ---        | E562   | 0.001    | mg/L | 0.02 mg/L                              | 99.0 | 85.0  | 115          | ---                 |           |
| <b>Volatile Organic Compounds (QC Lot: 1617788)</b>   |            |        |          |      |  |      |       |              |                     |           |
| Benzene   | 71-43-2    | E611C  | 0.5      | µg/L | 100 µg/L                               | 96.8 | 70.0  | 130          | ---                 |           |
| Bromodichloromethane                                  | 75-27-4    | E611C  | 0.5      | µg/L | 100 µg/L                               | 90.5 | 70.0  | 130          | ---                 |           |
| Bromoform   | 75-25-2    | E611C  | 0.5      | µg/L | 100 µg/L                               | 90.1 | 70.0  | 130          | ---                 |           |
| Carbon tetrachloride                                  | 56-23-5    | E611C  | 0.5      | µg/L | 100 µg/L                               | 91.1 | 70.0  | 130          | ---                 |           |
| Chlorobenzene   | 108-90-7   | E611C  | 0.5      | µg/L | 100 µg/L                               | 105  | 70.0  | 130          | ---                 |           |
| Chloroethane  | 75-00-3    | E611C  | 0.5      | µg/L | 100 µg/L                               | 93.6 | 60.0  | 140          | ---                 |           |
| Chloroform  | 67-66-3    | E611C  | 0.5      | µg/L | 100 µg/L                               | 93.6 | 70.0  | 130          | ---                 |           |
| Chloromethane   | 74-87-3    | E611C  | 5        | µg/L | 100 µg/L                               | 95.5 | 60.0  | 140          | ---                 |           |
| Dibromochloromethane                                  | 124-48-1   | E611C  | 0.5      | µg/L | 100 µg/L                               | 89.4 | 70.0  | 130          | ---                 |           |
| Dichlorobenzene, 1,2-                                 | 95-50-1    | E611C  | 0.5      | µg/L | 100 µg/L                               | 106  | 70.0  | 130          | ---                 |           |
| Dichlorobenzene, 1,3-                                 | 541-73-1   | E611C  | 0.5      | µg/L | 100 µg/L                               | 114  | 70.0  | 130          | ---                 |           |
| Dichlorobenzene, 1,4-                                 | 106-46-7   | E611C  | 0.5      | µg/L | 100 µg/L                               | 114  | 70.0  | 130          | ---                 |           |
| Dichloroethane, 1,1-                                  | 75-34-3    | E611C  | 0.5      | µg/L | 100 µg/L                               | 98.0 | 70.0  | 130          | ---                 |           |
| Dichloroethane, 1,2-                                  | 107-06-2   | E611C  | 0.5      | µg/L | 100 µg/L                               | 84.9 | 70.0  | 130          | ---                 |           |
| Dichloroethylene, 1,1-                                | 75-35-4    | E611C  | 0.5      | µg/L | 100 µg/L                               | 95.0 | 70.0  | 130          | ---                 |           |
| Dichloroethylene, cis-1,2-                            | 156-59-2   | E611C  | 0.5      | µg/L | 100 µg/L                               | 89.8 | 70.0  | 130          | ---                 |           |
| Dichloroethylene, trans-1,2-                          | 156-60-5   | E611C  | 0.5      | µg/L | 100 µg/L                               | 94.2 | 70.0  | 130          | ---                 |           |



**Sub-Matrix: Water**

|  |                   |               |            |             | Laboratory Control Sample (LCS) Report |            |                     |                     |                            |             |                  |
|--|-------------------|---------------|------------|-------------|--|------------|---------------------|---------------------|----------------------------|-------------|------------------|
| <b>Analyte</b>   | <b>CAS Number</b> | <b>Method</b> | <b>LOR</b> | <b>Unit</b> | <b>Target Concentration</b>            | <b>LCS</b> | <b>Recovery (%)</b> |                     | <b>Recovery Limits (%)</b> |             | <b>Qualifier</b> |
|  |                   |               |            |             |  |            | <b>Spike</b>        | <b>Recovery (%)</b> | <b>Low</b>                 | <b>High</b> |                  |
| <b>Volatile Organic Compounds (QCLot: 1617788) - continued</b> |                   |               |            |             |  |            |                     |                     |                            |             |                  |
| Dichloromethane  | 75-09-2           | E611C         | 1          | µg/L        | 100 µg/L                               | 98.3       | 70.0                | 130                 | 130                        | 130         | ---              |
| Dichloropropane, 1,2-  | 78-87-5           | E611C         | 0.5        | µg/L        | 100 µg/L                               | 99.0       | 70.0                | 130                 | 130                        | 130         | ---              |
| Dichloropropylene, cis-1,3-                                    | 10061-01-5        | E611C         | 0.5        | µg/L        | 100 µg/L                               | 73.6       | 70.0                | 130                 | 130                        | 130         | ---              |
| Dichloropropylene, trans-1,3-                                  | 10061-02-6        | E611C         | 0.5        | µg/L        | 100 µg/L                               | 81.0       | 70.0                | 130                 | 130                        | 130         | ---              |
| Ethylbenzene   | 100-41-4          | E611C         | 0.5        | µg/L        | 100 µg/L                               | 93.2       | 70.0                | 130                 | 130                        | 130         | ---              |
| Methyl-tert-butyl ether [MTBE]                                 | 1634-04-4         | E611C         | 0.5        | µg/L        | 100 µg/L                               | 101        | 70.0                | 130                 | 130                        | 130         | ---              |
| Styrene  | 100-42-5          | E611C         | 0.5        | µg/L        | 100 µg/L                               | 94.0       | 70.0                | 130                 | 130                        | 130         | ---              |
| Tetrachloroethane, 1,1,1,2-                                    | 630-20-6          | E611C         | 0.5        | µg/L        | 100 µg/L                               | 94.8       | 70.0                | 130                 | 130                        | 130         | ---              |
| Tetrachloroethane, 1,1,2,2-                                    | 79-34-5           | E611C         | 0.2        | µg/L        | 100 µg/L                               | 104        | 70.0                | 130                 | 130                        | 130         | ---              |
| Tetrachloroethylene  | 127-18-4          | E611C         | 0.5        | µg/L        | 100 µg/L                               | 106        | 70.0                | 130                 | 130                        | 130         | ---              |
| Toluene  | 108-88-3          | E611C         | 0.4        | µg/L        | 100 µg/L                               | 100        | 70.0                | 130                 | 130                        | 130         | ---              |
| Trichloroethane, 1,1,1-  | 71-55-6           | E611C         | 0.5        | µg/L        | 100 µg/L                               | 94.1       | 70.0                | 130                 | 130                        | 130         | ---              |
| Trichloroethane, 1,1,2-  | 79-00-5           | E611C         | 0.5        | µg/L        | 100 µg/L                               | 94.9       | 70.0                | 130                 | 130                        | 130         | ---              |
| Trichloroethylene  | 79-01-6           | E611C         | 0.5        | µg/L        | 100 µg/L                               | 92.8       | 70.0                | 130                 | 130                        | 130         | ---              |
| Trichlorofluoromethane   | 75-69-4           | E611C         | 0.5        | µg/L        | 100 µg/L                               | 106        | 60.0                | 140                 | 140                        | 140         | ---              |
| Vinyl chloride   | 75-01-4           | E611C         | 0.4        | µg/L        | 100 µg/L                               | 97.9       | 60.0                | 140                 | 140                        | 140         | ---              |
| Xylene, m+p-   | 179601-23-1       | E611C         | 0.4        | µg/L        | 200 µg/L                               | 109        | 70.0                | 130                 | 130                        | 130         | ---              |
| Xylene, o-   | 95-47-6           | E611C         | 0.3        | µg/L        | 100 µg/L                               | 94.6       | 70.0                | 130                 | 130                        | 130         | ---              |
| <b>Hydrocarbons (QCLot: 1617789)</b>                           |                   |               |            |             |  |            |                     |                     |                            |             |                  |
| VHw (C6-C10)   | ---               | E581.VH+F1    | 100        | µg/L        | 6310 µg/L                              | 104        | 70.0                | 130                 | 130                        | 130         | ---              |
| <b>Hydrocarbons (QCLot: 1618885)</b>                           |                   |               |            |             |  |            |                     |                     |                            |             |                  |
| EPH (C10-C19)  | ---               | E601A         | 250        | µg/L        | 6490 µg/L                              | 99.9       | 70.0                | 130                 | 130                        | 130         | ---              |
| EPH (C19-C32)  | ---               | E601A         | 250        | µg/L        | 3360 µg/L                              | 106        | 70.0                | 130                 | 130                        | 130         | ---              |
| <b>Polycyclic Aromatic Hydrocarbons (QCLot: 1618884)</b>       |                   |               |            |             |  |            |                     |                     |                            |             |                  |
| Acenaphthene   | 83-32-9           | E641A         | 0.01       | µg/L        | 0.5 µg/L                               | 105        | 60.0                | 130                 | 130                        | 130         | ---              |
| Acenaphthylene   | 208-96-8          | E641A         | 0.01       | µg/L        | 0.5 µg/L                               | 114        | 60.0                | 130                 | 130                        | 130         | ---              |
| Acridine   | 260-94-6          | E641A         | 0.01       | µg/L        | 0.5 µg/L                               | 105        | 60.0                | 130                 | 130                        | 130         | ---              |
| Anthracene   | 120-12-7          | E641A         | 0.01       | µg/L        | 0.5 µg/L                               | 115        | 60.0                | 130                 | 130                        | 130         | ---              |
| Benz(a)anthracene  | 56-55-3           | E641A         | 0.01       | µg/L        | 0.5 µg/L                               | 107        | 60.0                | 130                 | 130                        | 130         | ---              |
| Benzo(a)pyrene   | 50-32-8           | E641A         | 0.005      | µg/L        | 0.5 µg/L                               | 104        | 60.0                | 130                 | 130                        | 130         | ---              |
| Benzo(b+j)fluoranthene   | n/a               | E641A         | 0.01       | µg/L        | 0.5 µg/L                               | 109        | 60.0                | 130                 | 130                        | 130         | ---              |
| Benzo(g,h,i)perylene   | 191-24-2          | E641A         | 0.01       | µg/L        | 0.5 µg/L                               | 114        | 60.0                | 130                 | 130                        | 130         | ---              |
| Benzo(k)fluoranthene   | 207-08-9          | E641A         | 0.01       | µg/L        | 0.5 µg/L                               | 105        | 60.0                | 130                 | 130                        | 130         | ---              |
| Chrysene   | 218-01-9          | E641A         | 0.01       | µg/L        | 0.5 µg/L                               | 108        | 60.0                | 130                 | 130                        | 130         | ---              |



Sub-Matrix: Water

| Analyte  | CAS Number | Method | LOR   | Unit | Laboratory Control Sample (LCS) Report |              |                     |     |           |
|--|------------|--------|-------|------|--|--------------|---------------------|-----|-----------|
|  |            |        |       |      | Spike                                  | Recovery (%) | Recovery Limits (%) |     | Qualifier |
| <b>Polycyclic Aromatic Hydrocarbons (QCLot: 1618884) - continued</b> |            |        |       |      |  |              |                     |     |           |
| Dibenz(a,h)anthracene  | 53-70-3    | E641A  | 0.005 | µg/L | 0.5 µg/L                               | 115          | 60.0                | 130 | ---       |
| Fluoranthene   | 206-44-0   | E641A  | 0.01  | µg/L | 0.5 µg/L                               | 106          | 60.0                | 130 | ---       |
| Fluorene   | 86-73-7    | E641A  | 0.01  | µg/L | 0.5 µg/L                               | 104          | 60.0                | 130 | ---       |
| Indeno(1,2,3-c,d)pyrene  | 193-39-5   | E641A  | 0.01  | µg/L | 0.5 µg/L                               | 109          | 60.0                | 130 | ---       |
| Methylnaphthalene, 1-  | 90-12-0    | E641A  | 0.01  | µg/L | 0.5 µg/L                               | 101          | 60.0                | 130 | ---       |
| Methylnaphthalene, 2-  | 91-57-6    | E641A  | 0.01  | µg/L | 0.5 µg/L                               | 109          | 60.0                | 130 | ---       |
| Naphthalene  | 91-20-3    | E641A  | 0.05  | µg/L | 0.5 µg/L                               | 104          | 50.0                | 130 | ---       |
| Phenanthrene   | 85-01-8    | E641A  | 0.02  | µg/L | 0.5 µg/L                               | 106          | 60.0                | 130 | ---       |
| Pyrene   | 129-00-0   | E641A  | 0.01  | µg/L | 0.5 µg/L                               | 106          | 60.0                | 130 | ---       |
| Quinoline  | 91-22-5    | E641A  | 0.05  | µg/L | 0.5 µg/L                               | 120          | 60.0                | 130 | ---       |
| <b>Glycols (QCLot: 1610325)</b>                                      |            |        |       |      |  |              |                     |     |           |
| Diethylene glycol  | 111-46-6   | E680E  | 5     | mg/L | 25 mg/L                                | 101          | 70.0                | 130 | ---       |
| Ethylene glycol  | 107-21-1   | E680E  | 5     | mg/L | 25 mg/L                                | 100          | 70.0                | 130 | ---       |
| Propylene glycol, 1,2-   | 57-55-6    | E680E  | 5     | mg/L | 25 mg/L                                | 98.2         | 70.0                | 130 | ---       |
| Triethylene glycol   | 112-27-6   | E680E  | 5     | mg/L | 25 mg/L                                | 101          | 70.0                | 130 | ---       |



## 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 |           |
| <b>Anions and Nutrients (QC Lot: 1607076)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C0742-002                                       | Anonymous        | Nitrogen, total                 | 7727-37-9  | E366       | 0.445 mg/L    | 0.4 mg/L  | 111          | 70.0                | 130  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607077)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C0742-002                                       | Anonymous        | Phosphorus, total               | 7723-14-0  | E372-U     | 0.0481 mg/L   | 0.05 mg/L | 96.1         | 70.0                | 130  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607078)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C0742-002                                       | Anonymous        | Ammonia, total (as N)           | 7664-41-7  | E298       | 0.102 mg/L    | 0.1 mg/L  | 102          | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607348)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Fluoride                        | 16984-48-8 | E235.F     | 0.992 mg/L    | 1 mg/L    | 99.2         | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607349)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Chloride                        | 16887-00-6 | E235.Cl    | 99.0 mg/L     | 100 mg/L  | 99.0         | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607350)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Bromide                         | 24959-67-9 | E235.Br-L  | 0.481 mg/L    | 0.5 mg/L  | 96.1         | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607351)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Nitrate (as N)                  | 14797-55-8 | E235.NO3-L | 2.46 mg/L     | 2.5 mg/L  | 98.4         | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607352)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Nitrite (as N)                  | 14797-65-0 | E235.NO2-L | 0.475 mg/L    | 0.5 mg/L  | 95.1         | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607353)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Sulfate (as SO4)                | 14808-79-8 | E235.SO4   | 98.2 mg/L     | 100 mg/L  | 98.2         | 75.0                | 125  | ---       |
| <b>Organic / Inorganic Carbon (QC Lot: 1607079)</b> |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C0742-002                                       | Anonymous        | Carbon, dissolved organic [DOC] | ----       | E358-L     | 4.85 mg/L     | 5 mg/L    | 97.0         | 70.0                | 130  | ---       |
| <b>Total Sulfides (QC Lot: 1614424)</b>             |                  |                                 |            |            |               |           |              |                     |      |           |
| FC2402241-001                                       | Anonymous        | Sulfide, total (as S)           | 18496-25-8 | E395       | 0.244 mg/L    | 0.2 mg/L  | 122          | 75.0                | 125  | ---       |
| <b>Total Metals (QC Lot: 1607119)</b>               |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1010-001                                       | Anonymous        | Aluminum, total                 | 7429-90-5  | E420       | 1.02 mg/L     | 1 mg/L    | 102          | 70.0                | 130  | ---       |
|   |                  | Antimony, total                 | 7440-36-0  | E420       | 0.101 mg/L    | 0.1 mg/L  | 101          | 70.0                | 130  | ---       |
|   |                  | Arsenic, total                  | 7440-38-2  | E420       | 0.104 mg/L    | 0.1 mg/L  | 104          | 70.0                | 130  | ---       |
|   |                  | Barium, total                   | 7440-39-3  | E420       | ND mg/L       | ----      | ND           | 70.0                | 130  | ---       |
|   |                  | Beryllium, total                | 7440-41-7  | E420       | 0.201 mg/L    | 0.2 mg/L  | 101          | 70.0                | 130  | ---       |
|   |                  | Bismuth, total                  | 7440-69-9  | E420       | 0.0459 mg/L   | 0.05 mg/L | 91.8         | 70.0                | 130  | ---       |
|   |                  | Boron, total                    | 7440-42-8  | E420       | ND mg/L       | ----      | ND           | 70.0                | 130  | ---       |
|   |                  | Cadmium, total                  | 7440-43-9  | E420       | 0.0203 mg/L   | 0.02 mg/L | 101          | 70.0                | 130  | ---       |
|   |                  | Calcium, total                  | 7440-70-2  | E420       | ND mg/L       | ----      | ND           | 70.0                | 130  | ---       |
|   |                  | Cesium, total                   | 7440-46-2  | E420       | 0.0513 mg/L   | 0.05 mg/L | 102          | 70.0                | 130  | ---       |
|   |                  | Chromium, total                 | 7440-47-3  | E420       | 0.197 mg/L    | 0.2 mg/L  | 98.4         | 70.0                | 130  | ---       |

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Work Order : VA24C1103  
 Client : Triton Environmental Consultants Ltd.  
 Project : 11964



## Sub-Matrix: Water

| Laboratory sample ID                              | Client sample ID | Analyte              | CAS Number | Method | Matrix Spike (MS) Report |            |              |                     |     |           |     |
|---|------------------|----------------------|------------|--------|--------------------------|------------|--------------|---------------------|-----|-----------|-----|
|   |                  |                      |            |        | Spike                    |            | Recovery (%) | Recovery Limits (%) |     | Qualifier |     |
|   |                  |                      |            |        | Concentration            | Target     |              | MS                  | Low | High      |     |
| <b>Total Metals (QC Lot: 1607119) - continued</b> |                  |                      |            |        |                          |            |              |                     |     |           |     |
| VA24C1010-001                                     | Anonymous        | Cobalt, total        | 7440-48-4  | E420   | 0.0986 mg/L              | 0.1 mg/L   | 98.6         | 70.0                | 130 | ---       | --- |
|   |                  | Copper, total        | 7440-50-8  | E420   | 0.0959 mg/L              | 0.1 mg/L   | 95.9         | 70.0                | 130 | ---       | --- |
|   |                  | Iron, total          | 7439-89-6  | E420   | ND mg/L                  | ---        | ND           | 70.0                | 130 | ---       | --- |
|   |                  | Lead, total          | 7439-92-1  | E420   | 0.0901 mg/L              | 0.1 mg/L   | 90.1         | 70.0                | 130 | ---       | --- |
|   |                  | Lithium, total       | 7439-93-2  | E420   | 0.479 mg/L               | 0.5 mg/L   | 95.7         | 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   | 0.102 mg/L               | 0.1 mg/L   | 102          | 70.0                | 130 | ---       | --- |
|   |                  | Nickel, total        | 7440-02-0  | E420   | 0.189 mg/L               | 0.2 mg/L   | 94.5         | 70.0                | 130 | ---       | --- |
|   |                  | Phosphorus, total    | 7723-14-0  | E420   | 50.1 mg/L                | 50 mg/L    | 100          | 70.0                | 130 | ---       | --- |
|   |                  | Potassium, total     | 7440-09-7  | E420   | ND mg/L                  | ---        | ND           | 70.0                | 130 | ---       | --- |
|   |                  | Rubidium, total      | 7440-17-7  | E420   | 0.0994 mg/L              | 0.1 mg/L   | 99.4         | 70.0                | 130 | ---       | --- |
|   |                  | Selenium, total      | 7782-49-2  | E420   | 0.204 mg/L               | 0.2 mg/L   | 102          | 70.0                | 130 | ---       | --- |
|   |                  | Silicon, total       | 7440-21-3  | E420   | ND mg/L                  | ---        | ND           | 70.0                | 130 | ---       | --- |
|   |                  | Silver, total        | 7440-22-4  | E420   | 0.0192 mg/L              | 0.02 mg/L  | 95.8         | 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   | 103 mg/L                 | 100 mg/L   | 103          | 70.0                | 130 | ---       | --- |
|   |                  | Tellurium, total     | 13494-80-9 | E420   | 0.204 mg/L               | 0.2 mg/L   | 102          | 70.0                | 130 | ---       | --- |
|   |                  | Thallium, total      | 7440-28-0  | E420   | 0.0173 mg/L              | 0.02 mg/L  | 86.5         | 70.0                | 130 | ---       | --- |
|   |                  | Thorium, total       | 7440-29-1  | E420   | 0.0922 mg/L              | 0.1 mg/L   | 92.2         | 70.0                | 130 | ---       | --- |
|   |                  | Tin, total           | 7440-31-5  | E420   | 0.0990 mg/L              | 0.1 mg/L   | 99.0         | 70.0                | 130 | ---       | --- |
|   |                  | Titanium, total      | 7440-32-6  | E420   | 0.191 mg/L               | 0.2 mg/L   | 95.6         | 70.0                | 130 | ---       | --- |
|   |                  | Tungsten, total      | 7440-33-7  | E420   | 0.0927 mg/L              | 0.1 mg/L   | 92.7         | 70.0                | 130 | ---       | --- |
|   |                  | Uranium, total       | 7440-61-1  | E420   | 0.0195 mg/L              | 0.02 mg/L  | 97.4         | 70.0                | 130 | ---       | --- |
|   |                  | Vanadium, total      | 7440-62-2  | E420   | 0.505 mg/L               | 0.5 mg/L   | 101          | 70.0                | 130 | ---       | --- |
|   |                  | Zinc, total          | 7440-66-6  | E420   | 1.96 mg/L                | 2 mg/L     | 97.9         | 70.0                | 130 | ---       | --- |
|   |                  | Zirconium, total     | 7440-67-7  | E420   | 0.205 mg/L               | 0.2 mg/L   | 103          | 70.0                | 130 | ---       | --- |
| <b>Total Metals (QC Lot: 1610399)</b>             |                  |                      |            |        |                          |            |              |                     |     |           |     |
| VA24C0638-002                                     | Anonymous        | Mercury, total       | 7439-97-6  | E508   | 0.000103 mg/L            | 0 mg/L     | 103          | 70.0                | 130 | ---       | --- |
| <b>Dissolved Metals (QC Lot: 1607992)</b>         |                  |                      |            |        |                          |            |              |                     |     |           |     |
| VA24C0970-002                                     | Anonymous        | Aluminum, dissolved  | 7429-90-5  | E421   | 0.376 mg/L               | 0.4 mg/L   | 94.1         | 70.0                | 130 | ---       | --- |
|   |                  | Antimony, dissolved  | 7440-36-0  | E421   | 0.0362 mg/L              | 0.04 mg/L  | 90.4         | 70.0                | 130 | ---       | --- |
|   |                  | Arsenic, dissolved   | 7440-38-2  | E421   | 0.0388 mg/L              | 0.04 mg/L  | 97.0         | 70.0                | 130 | ---       | --- |
|   |                  | Barium, dissolved    | 7440-39-3  | E421   | ND mg/L                  | ---        | ND           | 70.0                | 130 | ---       | --- |
|   |                  | Beryllium, dissolved | 7440-41-7  | E421   | 0.0744 mg/L              | 0.08 mg/L  | 93.0         | 70.0                | 130 | ---       | --- |
|   |                  | Bismuth, dissolved   | 7440-69-9  | E421   | 0.0167 mg/L              | 0.02 mg/L  | 83.5         | 70.0                | 130 | ---       | --- |
|   |                  | Boron, dissolved     | 7440-42-8  | E421   | ND mg/L                  | ---        | ND           | 70.0                | 130 | ---       | --- |
|   |                  | Cadmium, dissolved   | 7440-43-9  | E421   | 0.00730 mg/L             | 0.008 mg/L | 91.3         | 70.0                | 130 | ---       | --- |
|   |                  | Calcium, dissolved   | 7440-70-2  | E421   | ND mg/L                  | ---        | ND           | 70.0                | 130 | ---       | --- |
|   |                  | Cesium, dissolved    | 7440-46-2  | E421   | 0.0183 mg/L              | 0.02 mg/L  | 91.5         | 70.0                | 130 | ---       | --- |
|   |                  | Chromium, dissolved  | 7440-47-3  | E421   | 0.0729 mg/L              | 0.08 mg/L  | 91.1         | 70.0                | 130 | ---       | --- |
|   |                  | Cobalt, dissolved    | 7440-48-4  | E421   | 0.0352 mg/L              | 0.04 mg/L  | 87.9         | 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 |  |
| <b>Dissolved Metals (QCLot: 1607992) - continued</b> |                  |                                     |            |        |                          |            |              |                     |      |           |  |
| VA24C0970-002  | Anonymous        | Copper, dissolved                   | 7440-50-8  | E421   | 0.0336 mg/L              | 0.04 mg/L  | 84.1         | 70.0                | 130  | ---       |  |
|  |                  | Iron, dissolved                     | 7439-89-6  | E421   | 3.29 mg/L                | 4 mg/L     | 82.2         | 70.0                | 130  | ---       |  |
|  |                  | Lead, dissolved                     | 7439-92-1  | E421   | 0.0342 mg/L              | 0.04 mg/L  | 85.6         | 70.0                | 130  | ---       |  |
|  |                  | Lithium, dissolved                  | 7439-93-2  | E421   | 0.177 mg/L               | 0.2 mg/L   | 88.7         | 70.0                | 130  | ---       |  |
|  |                  | Magnesium, dissolved                | 7439-95-4  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |  |
|  |                  | Manganese, dissolved                | 7439-96-5  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |  |
|  |                  | Molybdenum, dissolved               | 7439-98-7  | E421   | 0.0396 mg/L              | 0.04 mg/L  | 99.0         | 70.0                | 130  | ---       |  |
|  |                  | Nickel, dissolved                   | 7440-02-0  | E421   | 0.0694 mg/L              | 0.08 mg/L  | 86.8         | 70.0                | 130  | ---       |  |
|  |                  | Phosphorus, dissolved               | 7723-14-0  | E421   | 19.7 mg/L                | 20 mg/L    | 98.6         | 70.0                | 130  | ---       |  |
|  |                  | Potassium, dissolved                | 7440-09-7  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |  |
|  |                  | Rubidium, dissolved                 | 7440-17-7  | E421   | 0.0363 mg/L              | 0.04 mg/L  | 90.8         | 70.0                | 130  | ---       |  |
|  |                  | Selenium, dissolved                 | 7782-49-2  | E421   | 0.0731 mg/L              | 0.08 mg/L  | 91.4         | 70.0                | 130  | ---       |  |
|  |                  | Silicon, dissolved                  | 7440-21-3  | E421   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |  |
|  |                  | Silver, dissolved                   | 7440-22-4  | E421   | 0.00669 mg/L             | 0.008 mg/L | 83.7         | 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   | ND mg/L                  | ----       | ND           | 70.0                | 130  | ---       |  |
|  |                  | Tellurium, dissolved                | 13494-80-9 | E421   | 0.0769 mg/L              | 0.08 mg/L  | 96.1         | 70.0                | 130  | ---       |  |
|  |                  | Thallium, dissolved                 | 7440-28-0  | E421   | 0.00690 mg/L             | 0.008 mg/L | 86.3         | 70.0                | 130  | ---       |  |
|  |                  | Thorium, dissolved                  | 7440-29-1  | E421   | 0.0348 mg/L              | 0.04 mg/L  | 87.1         | 70.0                | 130  | ---       |  |
|  |                  | Tin, dissolved                      | 7440-31-5  | E421   | 0.0366 mg/L              | 0.04 mg/L  | 91.4         | 70.0                | 130  | ---       |  |
|  |                  | Titanium, dissolved                 | 7440-32-6  | E421   | 0.0706 mg/L              | 0.08 mg/L  | 88.3         | 70.0                | 130  | ---       |  |
|  |                  | Tungsten, dissolved                 | 7440-33-7  | E421   | 0.0374 mg/L              | 0.04 mg/L  | 93.4         | 70.0                | 130  | ---       |  |
|  |                  | Uranium, dissolved                  | 7440-61-1  | E421   | 0.00688 mg/L             | 0.008 mg/L | 86.1         | 70.0                | 130  | ---       |  |
|  |                  | Vanadium, dissolved                 | 7440-62-2  | E421   | 0.190 mg/L               | 0.2 mg/L   | 94.8         | 70.0                | 130  | ---       |  |
|  |                  | Zinc, dissolved                     | 7440-66-6  | E421   | 0.695 mg/L               | 0.8 mg/L   | 86.8         | 70.0                | 130  | ---       |  |
|  |                  | Zirconium, dissolved                | 7440-67-7  | E421   | 0.0813 mg/L              | 0.08 mg/L  | 102          | 70.0                | 130  | ---       |  |
| <b>Dissolved Metals (QCLot: 1610589)</b>             |                  |                                     |            |        |                          |            |              |                     |      |           |  |
| VA24C0862-001  | Anonymous        | Mercury, dissolved                  | 7439-97-6  | E509   | 0.0000917 mg/L           | 0 mg/L     | 91.7         | 70.0                | 130  | ---       |  |
| <b>Speciated Metals (QCLot: 1612282)</b>             |                  |                                     |            |        |                          |            |              |                     |      |           |  |
| VA24C0997-001  | Anonymous        | Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532   | 0.0388 mg/L              | 0.04 mg/L  | 97.0         | 70.0                | 130  | ---       |  |
| <b>Aggregate Organics (QCLot: 1613081)</b>           |                  |                                     |            |        |                          |            |              |                     |      |           |  |
| CG2411751-002  | Anonymous        | Phenols, total (4AAP)               | ----       | E562   | 0.0195 mg/L              | 0.02 mg/L  | 97.7         | 75.0                | 125  | ---       |  |
| <b>Volatile Organic Compounds (QCLot: 1617788)</b>   |                  |                                     |            |        |                          |            |              |                     |      |           |  |
| KS2403291-002  | Anonymous        | Benzene                             | 71-43-2    | E611C  | 98.6 µg/L                | 100 µg/L   | 98.6         | 60.0                | 140  | ---       |  |
|  |                  | Bromodichloromethane                | 75-27-4    | E611C  | 94.9 µg/L                | 100 µg/L   | 94.9         | 60.0                | 140  | ---       |  |
|  |                  | Bromoform                           | 75-25-2    | E611C  | 99.4 µg/L                | 100 µg/L   | 99.4         | 60.0                | 140  | ---       |  |
|  |                  | Carbon tetrachloride                | 56-23-5    | E611C  | 94.5 µg/L                | 100 µg/L   | 94.5         | 60.0                | 140  | ---       |  |
|  |                  | Chlorobenzene                       | 108-90-7   | E611C  | 108 µg/L                 | 100 µg/L   | 108          | 60.0                | 140  | ---       |  |
|  |                  | Chloroethane                        | 75-00-3    | E611C  | 96.4 µg/L                | 100 µg/L   | 96.4         | 50.0                | 150  | ---       |  |
|  |                  | Chloroform                          | 67-66-3    | E611C  | 97.8 µg/L                | 100 µg/L   | 97.8         | 60.0                | 140  | ---       |  |
|  |                  | Chloromethane                       | 74-87-3    | E611C  | 97.3 µg/L                | 100 µg/L   | 97.3         | 50.0                | 150  | ---       |  |



Sub-Matrix: Water

|  |                  |                                |             |            | Matrix Spike (MS) Report |           |              |                     |      |           |
|--|------------------|--------------------------------|-------------|------------|--------------------------|-----------|--------------|---------------------|------|-----------|
| Laboratory sample ID   | Client sample ID | Analyte                        | CAS Number  | Method     | Spike                    |           | Recovery (%) | Recovery Limits (%) |      | Qualifier |
|  |                  |                                |             |            | Concentration            | Target    |              | Low                 | High |           |
| <b>Volatile Organic Compounds (QCLot: 1617788) - continued</b> |                  |                                |             |            |                          |           |              |                     |      |           |
| KS2403291-002  | Anonymous        | Dibromochloromethane           | 124-48-1    | E611C      | 94.0 µg/L                | 100 µg/L  | 94.0         | 60.0                | 140  | ---       |
|  |                  | Dichlorobenzene, 1,2-          | 95-50-1     | E611C      | 109 µg/L                 | 100 µg/L  | 109          | 60.0                | 140  | ---       |
|  |                  | Dichlorobenzene, 1,3-          | 541-73-1    | E611C      | 120 µg/L                 | 100 µg/L  | 120          | 60.0                | 140  | ---       |
|  |                  | Dichlorobenzene, 1,4-          | 106-46-7    | E611C      | 120 µg/L                 | 100 µg/L  | 120          | 60.0                | 140  | ---       |
|  |                  | Dichloroethane, 1,1-           | 75-34-3     | E611C      | 102 µg/L                 | 100 µg/L  | 102          | 60.0                | 140  | ---       |
|  |                  | Dichloroethane, 1,2-           | 107-06-2    | E611C      | 88.9 µg/L                | 100 µg/L  | 88.9         | 60.0                | 140  | ---       |
|  |                  | Dichloroethylene, 1,1-         | 75-35-4     | E611C      | 97.1 µg/L                | 100 µg/L  | 97.1         | 60.0                | 140  | ---       |
|  |                  | Dichloroethylene, cis-1,2-     | 156-59-2    | E611C      | 91.0 µg/L                | 100 µg/L  | 91.0         | 60.0                | 140  | ---       |
|  |                  | Dichloroethylene, trans-1,2-   | 156-60-5    | E611C      | 97.9 µg/L                | 100 µg/L  | 97.9         | 60.0                | 140  | ---       |
|  |                  | Dichloromethane                | 75-09-2     | E611C      | 102 µg/L                 | 100 µg/L  | 102          | 60.0                | 140  | ---       |
|  |                  | Dichloropropane, 1,2-          | 78-87-5     | E611C      | 104 µg/L                 | 100 µg/L  | 104          | 60.0                | 140  | ---       |
|  |                  | Dichloropropylene, cis-1,3-    | 10061-01-5  | E611C      | 75.3 µg/L                | 100 µg/L  | 75.3         | 60.0                | 140  | ---       |
|  |                  | Dichloropropylene, trans-1,3-  | 10061-02-6  | E611C      | 84.6 µg/L                | 100 µg/L  | 84.6         | 60.0                | 140  | ---       |
|  |                  | Ethylbenzene                   | 100-41-4    | E611C      | 90.0 µg/L                | 100 µg/L  | 90.0         | 60.0                | 140  | ---       |
|  |                  | Methyl-tert-butyl ether [MTBE] | 1634-04-4   | E611C      | 104 µg/L                 | 100 µg/L  | 104          | 60.0                | 140  | ---       |
|  |                  | Styrene                        | 100-42-5    | E611C      | 92.7 µg/L                | 100 µg/L  | 92.7         | 60.0                | 140  | ---       |
|  |                  | Tetrachloroethane, 1,1,1,2-    | 630-20-6    | E611C      | 99.6 µg/L                | 100 µg/L  | 99.6         | 60.0                | 140  | ---       |
|  |                  | Tetrachloroethane, 1,1,2,2-    | 79-34-5     | E611C      | 111 µg/L                 | 100 µg/L  | 111          | 60.0                | 140  | ---       |
|  |                  | Tetrachloroethylene            | 127-18-4    | E611C      | 109 µg/L                 | 100 µg/L  | 109          | 60.0                | 140  | ---       |
|  |                  | Toluene                        | 108-88-3    | E611C      | 99.7 µg/L                | 100 µg/L  | 99.7         | 60.0                | 140  | ---       |
|  |                  | Trichloroethane, 1,1,1-        | 71-55-6     | E611C      | 97.2 µg/L                | 100 µg/L  | 97.2         | 60.0                | 140  | ---       |
|  |                  | Trichloroethane, 1,1,2-        | 79-00-5     | E611C      | 100 µg/L                 | 100 µg/L  | 100          | 60.0                | 140  | ---       |
|  |                  | Trichloroethylene              | 79-01-6     | E611C      | 94.0 µg/L                | 100 µg/L  | 94.0         | 60.0                | 140  | ---       |
|  |                  | Trichlorofluoromethane         | 75-69-4     | E611C      | 110 µg/L                 | 100 µg/L  | 110          | 50.0                | 150  | ---       |
|  |                  | Vinyl chloride                 | 75-01-4     | E611C      | 96.4 µg/L                | 100 µg/L  | 96.4         | 50.0                | 150  | ---       |
|  |                  | Xylene, m+p-                   | 179601-23-1 | E611C      | 225 µg/L                 | 200 µg/L  | 112          | 60.0                | 140  | ---       |
|  |                  | Xylene, o-                     | 95-47-6     | E611C      | 93.3 µg/L                | 100 µg/L  | 93.3         | 60.0                | 140  | ---       |
| <b>Hydrocarbons (QCLot: 1617789)</b>                           |                  |                                |             |            |                          |           |              |                     |      |           |
| VA24C1101-002  | Anonymous        | VHw (C6-C10)                   | ----        | E581.VH+F1 | 6380 µg/L                | 6310 µg/L | 101          | 60.0                | 140  | ----      |



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

COC Number: 20 -

Page of

Canada Toll Free: 1 800 668 9878

Environmental Division  
Vancouver

Work Order Reference

VA24C1103



Telephone: +1 604 263 4188

|  |   |  |       |  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
|--|---|--|-------|--|---|---------------------------------|--|------------------|---|---|---|---|---|-----|---|--|--|--|--|--|------------------------------|--|--|
| Report To  |   | Contact and company name below will appear on the final report |       | Reports / Recipients   |   | Turnaround Time (TAT) Requested |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Company:   | Triton Environmental  |  |       | Select Report Format: <input type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)  | <input checked="" type="checkbox"/> Routine [R] if received by 3pm M-F - no surcharges apply<br><input type="checkbox"/> 4 day [P4] if received by 3pm M-F - 20% rush surcharge min<br><input type="checkbox"/> 3 day [P3] if received by 3pm M-F - 25% rush surcharge min<br><input type="checkbox"/> 2 day [P2] if received by 3pm M-F - 50% rush surcharge min<br><input type="checkbox"/> 1 day [E1] if received by 3pm M-F - 100% rush surcharge min<br><input type="checkbox"/> Same day [E2] if received by 10am M-S - 200% rush surcharge |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Contact:   |   |  |       | Merge QC/QCI Reports with COA <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Phone:   |   |  |       | <input type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Street:  |   | final report   |       | Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX   |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| City/Province:   |   |  |       | Email 1 or Fax   |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Postal Code:   |   |  |       | Email 2  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Invoice To   | Same as Report To <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |  |       | Email 3  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Copy of Invoice with Report  | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO                   |  |       | Select Invoice   |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Company:   |   |  |       | Email 1 or Fax   |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Contact:   |   |  |       | Email 2  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Project Information  |   |  |       | Oil and Gas Required Fields (client use)   |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| ALS Account # / Quote #: VA23-TRIT100-012  |   |  |       | AFE/Cost Center:   | PO#   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Job #: 11964   |   |  |       | Major/Minor Code:  | Routing Code:   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| PO / AFE: 11964 - Task 30 - Phase 3C-4C  |   |  |       | Requisitioner:   |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| LSD:   |   |  |       | Location:  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| ALS Lab Work Order # (ALS use only): C1103   |   |  |       | ALS Contact:   | Sampler:  |                                 |  | Analysis Request |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| ALS Sample # (ALS use only)  | Sample Identification and/or Coordinates (This description will appear on the report) |  |       | Date (dd-mm-yy)  | Time (hh:mm)  | Sample Type                     | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| PCR EOP  |   |  |       |  |   | Water                           | F  |                  |   | P | P | P   | P | F/P |   |  |  |  |  |  | SAMPLES ON HOLD              |  |  |
| pH: cond: temp:  |   |  |       |  | 11:16   |                                 |  |                  |   | R | R | R   | R | R   |   |  |  |  |  |  | EXTENDED STORAGE REQUIRED    |  |  |
| WLNG EOP tank  |   |  |       |  | 20-Aug-21   | Water                           | 15   | X                | R | R | R | R   | R | R   | R |  |  |  |  |  | SUSPECTED HAZARD (see notes) |  |  |
| pH: 7.23 cond: 192 µS/cm temp: 16.9 °C   |   |  |       |  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Duplicate  |   |  |       |  |   | Water                           | 15   | R                | R | R | R | R   | R | R   | R |  |  |  |  |  |                              |  |  |
| Field Blank  |   |  |       |  |   | Water                           | 15   | R                | R | R | R | R   | R | R   | R |  |  |  |  |  |                              |  |  |
| Trip Blank   |   |  |       |  |   | Water                           | 11   | R                | R | R | R | R   | R | R   | R |  |  |  |  |  |                              |  |  |
|  |   |  |       |  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
|  |   |  |       |  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
|  |   |  |       |  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
|  |   |  |       |  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Drinking Water (DW) Samples <sup>1</sup> (client use)  |   |  |       | Notes / Specify Limits for result evaluation by selecting from drop-down below (Excel COC only)  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Are samples taken from a Regulated DW System? <input type="checkbox"/> YES <input type="checkbox"/> NO   |   |  |       | SAMPLE RECEIPT DETAILS (ALS use only)  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| Are samples for human consumption/use? <input type="checkbox"/> YES <input type="checkbox"/> NO  |   |  |       | Cooling Method: <input type="checkbox"/> NONE <input type="checkbox"/> ICE <input checked="" type="checkbox"/> ICE PACKS <input type="checkbox"/> FROZEN <input checked="" type="checkbox"/> COOLING INITIATED |   |                                 |  |                  |   |   |   | Submission Comments Identified on Sample Receipt Notification: <input type="checkbox"/> YES <input type="checkbox"/> NO |   |     |   |  |  |  |  |  |                              |  |  |
|  |   |  |       | Cooler Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A Sample Custody Seals Intact: <input type="checkbox"/> YES <input type="checkbox"/> N/A                                  |   |                                 |  |                  |   |   |   | INITIAL COOLER TEMPERATURES °C FINAL COOLER TEMPERATURES °C   |   |     |   |  |  |  |  |  |                              |  |  |
|  |   |  |       |  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
|  |   |  |       |  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| SHIPMENT RELEASE (client use)  |   |  |       | INITIAL SHIPMENT RECEIPTION (ALS use only)   |   |                                 |  |                  |   |   |   | FINAL SHIPMENT RECEIPTION (ALS use only)  |   |     |   |  |  |  |  |  |                              |  |  |
| Date: 20 Aug 21  | Time: 17:05   | Received by:   | Date: | Time:  | Received by:  | Date:                           | Time:  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |
| IONS AND SAMPLING INFORMATION  |   |  |       | WHITE - LABORATORY COPY  |   |                                 |  |                  |   |   |   | YELLOW - CLIENT COPY  |   |     |   |  |  |  |  |  |                              |  |  |
| 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.  |   |  |       |  |   |                                 |  |                  |   |   |   |   |   |     |   |  |  |  |  |  |                              |  |  |

AUG 2020 FRONT

|   |  |   |
|---|--|---|
|  <b>FORTIS BC™</b> | <b>Eagle Mountain - Woodfibre Gas Pipeline Project</b> | <b>Aug. 19<sup>th</sup> to Aug. 25<sup>th</sup>, 2024</b> |
|   | <b>Report #</b>  | <b>22</b>   |
|   | <b>Appendix C</b>                                      | <b>C-4</b>  |

## Woodfibre Site WTP Discharge Field Notes and Logs

|                            |               |                            |                          |           |
|----------------------------|---------------|----------------------------|--------------------------|-----------|
| <b>Project Component:</b>  | Tunnel        | <b>Site Name:</b>          | WLNG Treatment Discharge |           |
| <b>Inspection Date:</b>    | 08/20/2024    | <b>Location:</b>           | WLNG                     |           |
| <b>Triton QP:</b>          | Lily Chycoski | <b>Latitude/Longitude:</b> |                          |           |
| <b>Temperature(c):</b>     | Low 13        | High 17                    | <b>Permit:</b>           | PE 110136 |
| <b>Weather Conditions:</b> | Light Rain    | <b>Ground Conditions:</b>  | Wet                      |           |

**Observations**

**Time:** 11:16:00      **Flow Volume (visual):** N/A

**Notes:** DO: 6.53 mg/L  
ORP: 112.8 mV  
Salinity: 0.14 ppt

Comments: EPH, PAH, LEPH/HEPH, VOC, VPH, TPH, LC50

**Odour Detected?:** No      **Notes:**

**Unusual Colour?** No      **Notes:**

**Unusual Observations?** No      **Notes:**

**Sheen on Water?** No      **Notes:**

**Samples Collected - Parameters**

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

**Logger Maintenance**

|                                      |    |   |     |
|--------------------------------------|----|---|-----|
| <b>Logger Maintenance Performed?</b> | No | <b>Photo of COC with Lab Signature?</b> | Yes |
|--------------------------------------|----|---|-----|

**Describe Logger Maintenance**

Photos



**Photo:** 1  
**Location:** WLNG EOP  
**Description:** US view



**Photo:** 2  
**Location:** WLNG EOP  
**Description:** Across view

## Photos



**Photo:** 3  
**Location:** WLNG EOP  
**Description:** DS view

**Photo:** 4  
**Location:** WLNG EOP  
**Description:** Lab COC

**Sign Off**

**Report Prepared By:** Lily Chycoski

**Report Reviewer:**

**Name:**

**Designation:**

**Designation Number:**

**Report Reviewed:**

**Professional(s) of Record:**



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

### Table of Contents:

1. [Executive Summary and Notes](#)
2. [Discharge Parameter Summary](#)
3. [WTP Calibration Log](#)

### Appendices:

- [Appendix A- WTP Data Log](#)  
[Appendix B- YSI Data Log](#)  
[Appendix C- Photos](#)

### 1. [Executive Summary and Field Notes:](#)

To meet water quality standards, we discharged water daily for a few hours to ensure proper dilution of the water downstream. A YSI device was deployed downstream from August 19 to August 22, recording temperature data every 15 minutes to ensure compliance with the maximum allowable temperature limits. Additionally, the installation of a cooling tower at the Water Treatment Plant (WTP) effectively reduced the water temperature, enhancing overall compliance and system performance. The discharged water mixed with downstream flow, and temperatures consistently remained below 19°C. All relevant parameters were measured using YSI instruments and WTP probes. The total discharge volume up to August 19th was 1610 m<sup>3</sup>.

Heavy rainfall caused the downstream sonde to register high NTU levels. Discharge was briefly initiated but then halted to monitor the sonde. Once the discharged water reached the sonde, NTU levels increased, suggesting potential corruption in the sonde data.



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## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

### Daily Volume Summary:

**Table 1. Discharge Volumes Daily Summary**

| Date      | Location      | Volume (m3) | Comments |
|-----------|---------------|-------------|----------|
| August 19 | WoodFibre(WF) | 52          | N/A      |
| August 20 | WF            | 37          | N/A      |
| August 21 | WF            | 78          | N/A      |
| August 22 | WF            | 79          | N/A      |
| August 23 | WF            | 120         | N/A      |
| August 24 | WF            | 69          | N/A      |
| August 25 | WF            | 0           | N/A      |
| Total     |               | 449         | N/A      |

### 2. Discharge Parameter Summary:

**Table 2. Discharge Event Summary**

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|----------------------------|--------------------------------|
| 8/19/2024 | 1:15:00 | 7.1          | 0.601815                   | 0             | 1610.983        | 22.9                       | 242                            |
| 8/19/2024 | 1:30:00 | 7.1          | 0.586675                   | 0             | 1610.983        | 22.7                       | 238                            |
| 8/19/2024 | 1:45:00 | 7.1          | 0.579105                   | 0             | 1610.983        | 22.7                       | 239                            |
| 8/19/2024 | 2:00:00 | 7.2          | 0.556395                   | 0             | 1610.983        | 22.7                       | 241                            |
| 8/19/2024 | 2:15:00 | 7.2          | 0.56775                    | 0             | 1610.983        | 22.6                       | 241                            |
| 8/19/2024 | 2:30:00 | 7.2          | 0.44663                    | 0             | 1616.778        | 22.6                       | 241                            |
| 8/19/2024 | 2:45:00 | 7.2          | 0.43906                    | 0             | 1623.544        | 22.6                       | 240                            |
| 8/19/2024 | 3:00:00 | 7.2          | 0.43906                    | 0             | 1630.348        | 22.6                       | 241                            |
| 8/19/2024 | 3:15:00 | 7.2          | 0.43149                    | 0             | 1637.069        | 22.5                       | 241                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m <sup>3</sup> /m) | Discharge NTU | Flow Total (m <sup>3</sup> ) | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|---|---------------|------------------------------|----------------------------|--------------------------------|
| 8/19/2024 | 3:30:00  | 7.2          | 0.41635                                 | 0             | 1643.366                     | 22.5                       | 242                            |
| 8/19/2024 | 3:45:00  | 7.2          | 0.412565                                | 0             | 1649.505                     | 22.4                       | 244                            |
| 8/19/2024 | 4:00:00  | 7.2          | 0.397425                                | 0             | 1655.629                     | 22.3                       | 247                            |
| 8/19/2024 | 4:15:00  | 7.2          | 0                                       | 0             | 1659.643                     | 22.3                       | 248                            |
| 8/20/2024 | 11:45:00 | 7.3          | 0                                       | 1.8           | 1666.19                      | 21                         | 286                            |
| 8/20/2024 | 22:30:00 | 7.2          | 0.919755                                | 2             | 1666.19                      | 21.6                       | 269                            |
| 8/20/2024 | 22:45:00 | 7            | 0.480695                                | 0             | 1671.535                     | 21.6                       | 292                            |
| 8/20/2024 | 23:00:00 | 6.8          | 0.46934                                 | 0             | 1678.724                     | 21.6                       | 291                            |
| 8/20/2024 | 23:15:00 | 6.9          | 0.47691                                 | 0             | 1685.74                      | 21.6                       | 275                            |
| 8/20/2024 | 23:30:00 | 7            | 0.46934                                 | 0.8           | 1692.624                     | 21.5                       | 266                            |
| 8/20/2024 | 23:45:00 | 7            | 0.473125                                | 0             | 1699.507                     | 21.5                       | 263                            |
| 8/21/2024 | 0:00:00  | 7.1          | 0.46177                                 | 0             | 1706.334                     | 21.5                       | 261                            |
| 8/21/2024 | 0:15:00  | 7.1          | 0.47691                                 | 0             | 1713.455                     | 21.4                       | 261                            |
| 8/21/2024 | 0:30:00  | 7.2          | 0.473125                                | 0             | 1720.614                     | 21.4                       | 261                            |
| 8/21/2024 | 0:45:00  | 7.2          | 0.488265                                | 1.3           | 1727.641                     | 21.3                       | 259                            |
| 8/21/2024 | 1:00:00  | 7.2          | 0.77971                                 | 1.6           | 1728.382                     | 21.2                       | 259                            |
| 8/21/2024 | 1:15:00  | 7.2          | 0.49962                                 | 0             | 1731.837                     | 21.1                       | 259                            |
| 8/21/2024 | 1:30:00  | 7.2          | 0.503405                                | 0             | 1739.314                     | 21.1                       | 259                            |
| 8/21/2024 | 1:45:00  | 7.2          | 0.49205                                 | 0             | 1746.814                     | 21.1                       | 259                            |
| 8/21/2024 | 2:00:00  | 7.2          | 0                                       | 0             | 1749.641                     | 21.1                       | 257                            |
| 8/21/2024 | 12:45:00 | 7.2          | 0.74943                                 | 0.3           | 1749.641                     | 21.5                       | 253                            |



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|                        |   |  |  |
|------------------------|---|--|--|
| <b>Title</b>           | <b>WoodFibre Weekly Water Discharge Report</b>          | <b>Revision:</b>   | <b>0</b>   |
| <b>Data Date Range</b> | <b>August 19<sup>th</sup> to August 25<sup>th</sup></b> | <b>Prepared by:</b><br><b>Approved by:</b><br><b>Date:</b> | <b>SD</b><br><b>BC2</b><br><b>August 29<sup>th</sup></b> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m <sup>3</sup> /m) | Discharge NTU | Flow Total (m <sup>3</sup> ) | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|---|---------------|------------------------------|----------------------------|--------------------------------|
| 8/21/2024 | 13:00:00 | 7.2          | 0.344435                                | 0.8           | 1750.631                     | 21.5                       | 255                            |
| 8/21/2024 | 13:15:00 | 7.2          | 0.412565                                | 0             | 1756.449                     | 21.4                       | 255                            |
| 8/21/2024 | 13:30:00 | 7.2          | 0.39364                                 | 0             | 1762.644                     | 21.4                       | 255                            |
| 8/21/2024 | 13:45:00 | 7.2          | 0.39364                                 | 0             | 1768.734                     | 21.4                       | 256                            |
| 8/21/2024 | 14:00:00 | 7.2          | 0.389855                                | 0.4           | 1774.842                     | 21.4                       | 256                            |
| 8/21/2024 | 14:15:00 | 7.2          | 0.40121                                 | 0.7           | 1780.958                     | 21.4                       | 256                            |
| 8/22/2024 | 3:30:00  | 7.1          | 0.49962                                 | 3             | 1784.19                      | 20.5                       | 280                            |
| 8/22/2024 | 3:45:00  | 7            | 0.526115                                | 0             | 1791.731                     | 20.5                       | 280                            |
| 8/22/2024 | 4:00:00  | 7            | 0.51476                                 | 0             | 1799.545                     | 20.4                       | 280                            |
| 8/22/2024 | 4:15:00  | 7            | 0.49962                                 | 0             | 1807.037                     | 20.4                       | 280                            |
| 8/22/2024 | 4:30:00  | 7            | 0                                       | 0             | 1813.44                      | 20.4                       | 280                            |
| 8/22/2024 | 4:45:00  | 7            | 0.503405                                | 0             | 1815.353                     | 20.3                       | 278                            |
| 8/22/2024 | 5:00:00  | 7            | 0.480695                                | 0             | 1822.837                     | 20.3                       | 280                            |
| 8/22/2024 | 11:30:00 | 7.2          | 0.700225                                | 0.3           | 1829.864                     | 20.1                       | 277                            |
| 8/22/2024 | 11:45:00 | 7.2          | 0.412565                                | 0             | 1832.911                     | 20.1                       | 281                            |
| 8/22/2024 | 12:00:00 | 7.2          | 0.39364                                 | 0             | 1839.008                     | 20.2                       | 281                            |
| 8/22/2024 | 12:15:00 | 7.2          | 0.39364                                 | 0             | 1845.048                     | 20.3                       | 281                            |
| 8/22/2024 | 12:30:00 | 7.2          | 0.389855                                | 0             | 1851.085                     | 20.3                       | 282                            |
| 8/22/2024 | 12:45:00 | 7.2          | 0.40121                                 | 0             | 1857.08                      | 20.3                       | 282                            |
| 8/22/2024 | 13:00:00 | 7.2          | 0.44663                                 | 0             | 1862.969                     | 20.4                       | 282                            |
| 8/23/2024 | 1:00:00  | 7.4          | 0.39364                                 | 0.2           | 1862.969                     | 18.3                       | 283                            |



**FRONTIER-KEMPER**  
**MICHELS**® joint venture

**Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope**

|                        |   |  |  |
|------------------------|---|--|--|
| <b>Title</b>           | <b>WoodFibre Weekly Water Discharge Report</b>          | <b>Revision:</b>   | <b>0</b>   |
| <b>Data Date Range</b> | <b>August 19<sup>th</sup> to August 25<sup>th</sup></b> | <b>Prepared by:</b><br><b>Approved by:</b><br><b>Date:</b> | <b>SD</b><br><b>BC2</b><br><b>August 29<sup>th</sup></b> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|----------------------------|--------------------------------|
| 8/23/2024 | 1:15:00  | 7.4          | 0.397425                   | 0.1           | 1868.9          | 18.2                       | 285                            |
| 8/23/2024 | 1:30:00  | 7.3          | 0.465555                   | 2.5           | 1875.035        | 18.1                       | 297                            |
| 8/23/2024 | 10:00:00 | 7.2          | 0.87055                    | 2.9           | 1875.39         | 17.7                       | 283                            |
| 8/23/2024 | 10:15:00 | 7.2          | 0.647235                   | 0.9           | 1880.357        | 17.8                       | 283                            |
| 8/23/2024 | 10:30:00 | 7.3          | 0.52233                    | 0.6           | 1888.836        | 17.8                       | 283                            |
| 8/23/2024 | 10:45:00 | 7.2          | 0.526115                   | 2             | 1896.951        | 17.8                       | 290                            |
| 8/23/2024 | 12:30:00 | 7.2          | 0.68887                    | 1.5           | 1903.857        | 18.6                       | 288                            |
| 8/23/2024 | 12:45:00 | 7.2          | 0.67373                    | 1.2           | 1914.063        | 18.7                       | 289                            |
| 8/23/2024 | 13:00:00 | 7.2          | 0.669945                   | 1.4           | 1924.213        | 18.7                       | 288                            |
| 8/23/2024 | 13:15:00 | 7.3          | 0.67373                    | 1.9           | 1934.362        | 18.7                       | 288                            |
| 8/23/2024 | 14:15:00 | 7.1          | 0.768355                   | 0.8           | 1940.66         | 19.7                       | 286                            |
| 8/23/2024 | 14:30:00 | 7.2          | 0.745645                   | 0.5           | 1952.177        | 19.6                       | 286                            |
| 8/23/2024 | 14:45:00 | 7.2          | 0                          | 0             | 1962.232        | 19.5                       | 286                            |
| 8/24/2024 | 0:15:00  | 7.2          | 0.49962                    | 3.2           | 1998.671        | 17.7                       | 265                            |
| 8/24/2024 | 0:30:00  | 7.2          | 0.54504                    | 3.3           | 2006.511        | 17.6                       | 265                            |
| 8/24/2024 | 0:45:00  | 7.1          | 0.495835                   | 3.6           | 2014.457        | 17.4                       | 274                            |
| 8/24/2024 | 1:00:00  | 7            | 0.40878                    | 2.5           | 2018.282        | 17.3                       | 275                            |
| 8/24/2024 | 10:00:00 | 7.5          | 0.74943                    | 4.3           | 2023.956        | 17.9                       | 262                            |
| 8/24/2024 | 10:15:00 | 7.5          | 0.74186                    | 3             | 2034.861        | 17.8                       | 262                            |
| 8/24/2024 | 19:45:00 | 7.2          | 0.72672                    | 28.8          | 2042.587        | 17                         | 294                            |
| 8/24/2024 | 20:00:00 | 7.2          | 0.87055                    | 42.8          | 2051.501        | 17                         | 292                            |



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|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
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**Table 3. In-Situ Parameters**

| Date      | Time     | pH   | DO mg/L | Salinity (ppt) | ORP (mV) | Visible Sheen | Conductivity (uS/cm) |
|-----------|----------|------|---------|----------------|----------|---------------|----------------------|
| 8/19/2024 | 00:01:21 | 8.04 | 9.45    | 0.06           | 190.8    | No            | 135.6                |
| 8/19/2024 | 03:16:20 | 8.07 | 9.66    | 0.07           | 222.6    | No            | 140.7                |
| 8/20/2024 | 20:32:17 | 8.17 | 9.36    | 0.07           | 149.4    | No            | 155.9                |
| 8/20/2024 | 23:32:16 | 8.08 | 9.65    | 0.07           | 193      | No            | 155.2                |
| 8/21/2024 | 00:32:16 | 8.04 | 9.63    | 0.06           | 209.3    | No            | 128.0                |
| 8/21/2024 | 13:15:25 | 8.11 | 9.63    | 0.07           | 191.3    | No            | 155.1                |
| 8/22/2024 | 01:38:39 | 8.11 | 9.65    | 0.07           | 213.2    | No            | 158.4                |
| 8/22/2024 | 12:35:38 | 7.92 | 9.76    | 0.05           | 224.8    | No            | 108.5                |
| 8/23/2024 | 10:04:46 | 7.62 | 7.81    | 0.08           | 178.7    | No            | 161.0                |
| 8/24/2024 | 09:49:48 | 7.67 | 7.99    | 0.07           | 177.0    | No            | 142.4                |
| 8/24/2024 | 19:46:36 | 7.27 | 8.51    | 0.08           | 203.1    | No            | 159.9                |
| 8/25/2024 | 16:29:50 | 7.17 | 8.82    | 0.07           | 207.4    | No            | 158.2                |

### 3. Calibration Log:

**Table 4. Calibration Log**

| Date      | Unit | pH | Conductivity/Temp. | Salinity | NTU |
|-----------|------|----|--------------------|----------|-----|
| 8/19/2024 | YSI  | ✓  | ✓                  | ✓        | ✓   |
| 8/21/2024 | WTP  | ✓  | ✓                  | N/A      | ✓   |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
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## APPENDIX A: WTP LOG



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
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| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/19/2024 | 0:00:00 | 7            | 0                          | 0             | 1,611           | Open                | Closed                 | 22.8                       | 238                            |
| 8/19/2024 | 0:15:00 | 7            | 0                          | 0             | 1,611           | Open                | Closed                 | 22.6                       | 238                            |
| 8/19/2024 | 0:30:00 | 7            | 0                          | 0             | 1,611           | Open                | Closed                 | 22.5                       | 240                            |
| 8/19/2024 | 0:45:00 | 7            | 0                          | 0             | 1,611           | Open                | Closed                 | 22.3                       | 240                            |
| 8/19/2024 | 1:00:00 | 7            | 0                          | 0             | 1,611           | Open                | Closed                 | 22.2                       | 240                            |
| 8/19/2024 | 1:15:00 | 7.1          | 0.601815                   | 0             | 1,611           | Open                | Closed                 | 22.9                       | 242                            |
| 8/19/2024 | 1:30:00 | 7.1          | 0.586675                   | 0             | 1,611           | Open                | Closed                 | 22.7                       | 238                            |
| 8/19/2024 | 1:45:00 | 7.1          | 0.579105                   | 0             | 1,611           | Open                | Closed                 | 22.7                       | 239                            |
| 8/19/2024 | 2:00:00 | 7.2          | 0.556395                   | 0             | 1,611           | Open                | Closed                 | 22.7                       | 241                            |
| 8/19/2024 | 2:15:00 | 7.2          | 0.56775                    | 0             | 1,611           | Open                | Closed                 | 22.6                       | 241                            |
| 8/19/2024 | 2:30:00 | 7.2          | 0.44663                    | 0             | 1,617           | Closed              | Open                   | 22.6                       | 241                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
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| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/19/2024 | 2:45:00 | 7.2          | 0.43906                    | 0             | 1,624           | Closed              | Open                   | 22.6                       | 240                            |
| 8/19/2024 | 3:00:00 | 7.2          | 0.43906                    | 0             | 1,630           | Closed              | Open                   | 22.6                       | 241                            |
| 8/19/2024 | 3:15:00 | 7.2          | 0.43149                    | 0             | 1,637           | Closed              | Open                   | 22.5                       | 241                            |
| 8/19/2024 | 3:30:00 | 7.2          | 0.41635                    | 0             | 1,643           | Closed              | Open                   | 22.5                       | 242                            |
| 8/19/2024 | 3:45:00 | 7.2          | 0.412565                   | 0             | 1,650           | Closed              | Open                   | 22.4                       | 244                            |
| 8/19/2024 | 4:00:00 | 7.2          | 0.397425                   | 0             | 1,656           | Closed              | Open                   | 22.3                       | 247                            |
| 8/19/2024 | 4:15:00 | 7.2          | 0                          | 0             | 1,660           | Open                | Closed                 | 22.3                       | 248                            |
| 8/19/2024 | 4:30:00 | 7.1          | 0                          | 0             | 1,660           | Open                | Closed                 | 22                         | 248                            |
| 8/19/2024 | 4:45:00 | 7.1          | 0                          | 0             | 1,660           | Open                | Closed                 | 21.8                       | 248                            |
| 8/19/2024 | 5:00:00 | 7.1          | 0                          | 0             | 1,660           | Open                | Closed                 | 21.6                       | 250                            |
| 8/19/2024 | 5:15:00 | 7.1          | 0                          | 0             | 1,660           | Open                | Closed                 | 21.4                       | 250                            |
| 8/19/2024 | 5:30:00 | 7.1          | 0                          | 0             | 1,660           | Open                | Closed                 | 21.2                       | 251                            |
| 8/19/2024 | 5:45:00 | 7.1          | 0                          | 0             | 1,660           | Open                | Closed                 | 21                         | 251                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
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| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/19/2024 | 6:00:00 | 7.1          | 0                          | 0             | 1,660           | Open                | Closed                 | 20.9                       | 252                            |
| 8/19/2024 | 6:15:00 | 7            | 0                          | 0             | 1,660           | Open                | Closed                 | 20.9                       | 252                            |
| 8/19/2024 | 6:30:00 | 7            | 0                          | 0             | 1,660           | Open                | Closed                 | 20.8                       | 252                            |
| 8/19/2024 | 6:45:00 | 7            | 0                          | 0             | 1,660           | Open                | Closed                 | 20.7                       | 252                            |
| 8/19/2024 | 7:00:00 | 7            | 0                          | 0             | 1,660           | Open                | Closed                 | 20.6                       | 251                            |
| 8/19/2024 | 7:15:00 | 7            | 0                          | 0             | 1,660           | Open                | Closed                 | 20.4                       | 253                            |
| 8/19/2024 | 7:30:00 | 7            | 0                          | 0             | 1,660           | Open                | Closed                 | 20.2                       | 251                            |
| 8/19/2024 | 7:45:00 | 7.1          | 0.412565                   | 11.4          | 1,660           | Open                | Closed                 | 21.6                       | 258                            |
| 8/19/2024 | 8:00:00 | 7.2          | 2.14231                    | 409.1         | 1,660           | Open                | Closed                 | 20.1                       | 277                            |
| 8/19/2024 | 8:15:00 | 7.2          | 2.168805                   | 194.2         | 1,660           | Open                | Closed                 | 20.1                       | 280                            |
| 8/19/2024 | 8:30:00 | 7.2          | 2.17259                    | 409           | 1,660           | Open                | Closed                 | 20.1                       | 280                            |
| 8/19/2024 | 8:45:00 | 7.2          | 2.153665                   | 344.5         | 1,660           | Open                | Closed                 | 20.2                       | 280                            |
| 8/19/2024 | 9:00:00 | 6.9          | 0                          | 341.9         | 1,660           | Open                | Closed                 | 20.2                       | 286                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
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| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/19/2024 | 9:15:00  | 7.1          | 2.16502                    | 231.1         | 1,660           | Open                | Closed                 | 20.3                       | 273                            |
| 8/19/2024 | 9:30:00  | 7.2          | 0                          | 175.9         | 1,660           | Open                | Closed                 | 20.5                       | 272                            |
| 8/19/2024 | 9:45:00  | 7.2          | 2.032545                   | 222.3         | 1,660           | Open                | Closed                 | 20.6                       | 268                            |
| 8/19/2024 | 10:00:00 | 7            | 2.01362                    | 228.1         | 1,660           | Open                | Closed                 | 20.7                       | 268                            |
| 8/19/2024 | 10:15:00 | 7.2          | 2.05147                    | 38.2          | 1,660           | Open                | Closed                 | 20.6                       | 274                            |
| 8/19/2024 | 10:30:00 | 7.2          | 1.44587                    | 191           | 1,660           | Open                | Closed                 | 20.9                       | 269                            |
| 8/19/2024 | 10:45:00 | 7.2          | 1.54428                    | 102.2         | 1,660           | Open                | Closed                 | 21.1                       | 267                            |
| 8/19/2024 | 11:00:00 | 7.1          | 1.56699                    | 117.3         | 1,660           | Open                | Closed                 | 21.2                       | 266                            |
| 8/19/2024 | 11:15:00 | 7.1          | 1.3626                     | 44.7          | 1,660           | Open                | Closed                 | 21.4                       | 266                            |
| 8/19/2024 | 11:30:00 | 7            | 1.08251                    | 148.8         | 1,660           | Open                | Closed                 | 21.5                       | 266                            |
| 8/19/2024 | 11:45:00 | 7.1          | 2.123385                   | 99.7          | 1,660           | Open                | Closed                 | 21.6                       | 266                            |
| 8/19/2024 | 12:00:00 | 7.2          | 2.146095                   | 36.3          | 1,660           | Open                | Closed                 | 21.7                       | 266                            |
| 8/19/2024 | 12:15:00 | 7.3          | 2.14231                    | 47.3          | 1,660           | Open                | Closed                 | 21.9                       | 264                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
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| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/19/2024 | 12:30:00 | 7.2          | 2.14231                    | 62.7          | 1,660           | Open                | Closed                 | 22.1                       | 264                            |
| 8/19/2024 | 12:45:00 | 7.2          | 2.14988                    | 83.5          | 1,660           | Open                | Closed                 | 22.3                       | 263                            |
| 8/19/2024 | 13:00:00 | 7.2          | 1.351245                   | 33.4          | 1,660           | Open                | Closed                 | 22.6                       | 261                            |
| 8/19/2024 | 13:15:00 | 7.3          | 0.601815                   | 410           | 1,660           | Open                | Closed                 | 22.5                       | 267                            |
| 8/19/2024 | 13:30:00 | 6.9          | 0.5299                     | 328.5         | 1,660           | Open                | Closed                 | 22.8                       | 270                            |
| 8/19/2024 | 13:45:00 | 6.9          | 0.88569                    | 59.2          | 1,660           | Open                | Closed                 | 22.8                       | 268                            |
| 8/19/2024 | 14:00:00 | 7.1          | 0.791065                   | 32.5          | 1,660           | Open                | Closed                 | 22.9                       | 262                            |
| 8/19/2024 | 14:15:00 | 7.1          | 0                          | 26            | 1,660           | Open                | Closed                 | 23.1                       | 260                            |
| 8/19/2024 | 14:30:00 | 7.1          | 0                          | 18.7          | 1,660           | Open                | Closed                 | 23.4                       | 260                            |
| 8/19/2024 | 14:45:00 | 7            | 0                          | 17.1          | 1,660           | Open                | Closed                 | 23.9                       | 262                            |
| 8/19/2024 | 15:00:00 | 7            | 0                          | 13.6          | 1,660           | Open                | Closed                 | 24.4                       | 260                            |
| 8/19/2024 | 15:15:00 | 7            | 0                          | 16.5          | 1,660           | Open                | Closed                 | 24.8                       | 260                            |
| 8/19/2024 | 15:30:00 | 7            | 0                          | 17.2          | 1,660           | Open                | Closed                 | 25                         | 260                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
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| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/19/2024 | 15:45:00 | 7            | 0                          | 17            | 1,660           | Open                | Closed                 | 25.2                       | 262                            |
| 8/19/2024 | 16:00:00 | 6.7          | 1.366385                   | 209.6         | 1,660           | Open                | Closed                 | 23.1                       | 273                            |
| 8/19/2024 | 16:15:00 | 6.8          | 2.26343                    | 334.6         | 1,660           | Open                | Closed                 | 23.2                       | 269                            |
| 8/19/2024 | 16:30:00 | 7            | 2.221795                   | 409.9         | 1,660           | Open                | Closed                 | 23.1                       | 283                            |
| 8/19/2024 | 16:45:00 | 7.2          | 2.244505                   | 401.4         | 1,660           | Open                | Closed                 | 23.1                       | 287                            |
| 8/19/2024 | 17:00:00 | 7.2          | 2.229365                   | 316.3         | 1,660           | Open                | Closed                 | 23.1                       | 287                            |
| 8/19/2024 | 17:15:00 | 7.3          | 2.24829                    | 326.2         | 1,660           | Open                | Closed                 | 23.2                       | 287                            |
| 8/19/2024 | 17:30:00 | 7.3          | 2.24072                    | 341.7         | 1,660           | Open                | Closed                 | 23.2                       | 287                            |
| 8/19/2024 | 17:45:00 | 7.3          | 2.05147                    | 295.5         | 1,660           | Open                | Closed                 | 23.3                       | 288                            |
| 8/19/2024 | 18:00:00 | 7.3          | 2.017405                   | 278.7         | 1,660           | Open                | Closed                 | 23.3                       | 288                            |
| 8/19/2024 | 18:15:00 | 7.2          | 0                          | 410           | 1,660           | Open                | Closed                 | 23.4                       | 290                            |
| 8/19/2024 | 18:30:00 | 7.2          | 1.366385                   | 37.8          | 1,660           | Open                | Closed                 | 23.3                       | 285                            |
| 8/19/2024 | 18:45:00 | 7.2          | 1.116575                   | 69.5          | 1,660           | Open                | Closed                 | 23.2                       | 285                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/19/2024 | 19:00:00 | 7.2          | 1.003025                   | 28.2          | 1,660           | Open                | Closed                 | 23.2                       | 285                            |
| 8/19/2024 | 19:15:00 | 7.2          | 0.43149                    | 14.4          | 1,660           | Open                | Closed                 | 23.2                       | 284                            |
| 8/19/2024 | 19:30:00 | 7.2          | 0.82513                    | 15.8          | 1,663           | Open                | Closed                 | 23.1                       | 284                            |
| 8/19/2024 | 19:45:00 | 7.2          | 0.798635                   | 18.4          | 1,663           | Open                | Closed                 | 23.1                       | 284                            |
| 8/19/2024 | 20:00:00 | 7.2          | 0.836485                   | 24.5          | 1,663           | Open                | Closed                 | 23                         | 284                            |
| 8/19/2024 | 20:15:00 | 7.2          | 0.82513                    | 22.9          | 1,663           | Open                | Closed                 | 23                         | 284                            |
| 8/19/2024 | 20:30:00 | 7.2          | 0.79485                    | 18.1          | 1,663           | Open                | Closed                 | 22.9                       | 284                            |
| 8/19/2024 | 20:45:00 | 7.2          | 0.654805                   | 12.5          | 1,663           | Open                | Closed                 | 22.9                       | 284                            |
| 8/19/2024 | 21:00:00 | 7.2          | 0                          | 30.6          | 1,663           | Open                | Closed                 | 22.9                       | 284                            |
| 8/19/2024 | 21:15:00 | 7.2          | 0.253595                   | 17.3          | 1,663           | Open                | Closed                 | 22.9                       | 284                            |
| 8/19/2024 | 21:30:00 | 7.2          | 0                          | 30.3          | 1,663           | Open                | Closed                 | 22.8                       | 286                            |
| 8/19/2024 | 21:45:00 | 7.2          | 0.563965                   | 36.9          | 1,663           | Open                | Closed                 | 22.8                       | 286                            |
| 8/19/2024 | 22:00:00 | 7.2          | 0.616955                   | 36.2          | 1,663           | Open                | Closed                 | 22.6                       | 286                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/19/2024 | 22:15:00 | 7.2          | 0.52233                    | 20.5          | 1,663           | Open                | Closed                 | 22.6                       | 286                            |
| 8/19/2024 | 22:30:00 | 7.2          | 0.57532                    | 29.6          | 1,663           | Open                | Closed                 | 22.5                       | 284                            |
| 8/19/2024 | 22:45:00 | 7.2          | 0.488265                   | 16.8          | 1,663           | Open                | Closed                 | 22.5                       | 286                            |
| 8/19/2024 | 23:00:00 | 7.2          | 0.61317                    | 43.1          | 1,663           | Open                | Closed                 | 22.4                       | 284                            |
| 8/19/2024 | 23:15:00 | 7.2          | 0.49205                    | 28.6          | 1,663           | Open                | Closed                 | 22.3                       | 283                            |
| 8/19/2024 | 23:30:00 | 7.2          | 0.56018                    | 34.8          | 1,663           | Open                | Closed                 | 22.2                       | 281                            |
| 8/19/2024 | 23:45:00 | 7.2          | 0.54504                    | 16.2          | 1,663           | Open                | Closed                 | 22.2                       | 277                            |
| 8/20/2024 | 0:00:00  | 7.2          | 0.52233                    | 10.5          | 1,663           | Open                | Closed                 | 22.2                       | 278                            |
| 8/20/2024 | 0:15:00  | 7.2          | 0.503405                   | 8.6           | 1,663           | Open                | Closed                 | 22.2                       | 281                            |
| 8/20/2024 | 0:30:00  | 7.2          | 0.49205                    | 7.1           | 1,663           | Open                | Closed                 | 22.2                       | 281                            |
| 8/20/2024 | 0:45:00  | 7.2          | 0.37093                    | 411.2         | 1,663           | Open                | Closed                 | 22.2                       | 281                            |
| 8/20/2024 | 1:00:00  | 7.2          | 1.53671                    | 88.5          | 1,663           | Open                | Closed                 | 22.1                       | 282                            |
| 8/20/2024 | 1:15:00  | 6.9          | 1.46858                    | 79.6          | 1,663           | Open                | Closed                 | 22                         | 287                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/20/2024 | 1:30:00 | 7.1          | 1.426945                   | 71.4          | 1,663           | Open                | Closed                 | 21.9                       | 286                            |
| 8/20/2024 | 1:45:00 | 7.1          | 1.33989                    | 104.3         | 1,663           | Open                | Closed                 | 21.9                       | 286                            |
| 8/20/2024 | 2:00:00 | 7.2          | 1.31718                    | 47            | 1,663           | Open                | Closed                 | 21.9                       | 286                            |
| 8/20/2024 | 2:15:00 | 7.2          | 1.31718                    | 77.2          | 1,663           | Open                | Closed                 | 21.9                       | 286                            |
| 8/20/2024 | 2:30:00 | 7.2          | 1.214985                   | 45.1          | 1,663           | Open                | Closed                 | 21.8                       | 286                            |
| 8/20/2024 | 2:45:00 | 7.2          | 1.154425                   | 53.1          | 1,663           | Open                | Closed                 | 21.8                       | 286                            |
| 8/20/2024 | 3:00:00 | 7.2          | 1.124145                   | 30.1          | 1,663           | Open                | Closed                 | 21.7                       | 286                            |
| 8/20/2024 | 3:15:00 | 7.2          | 1.124145                   | 75.6          | 1,663           | Open                | Closed                 | 21.7                       | 294                            |
| 8/20/2024 | 3:30:00 | 7            | 1.116575                   | 44.6          | 1,663           | Open                | Closed                 | 21.7                       | 291                            |
| 8/20/2024 | 3:45:00 | 7.1          | 1.093865                   | 31.7          | 1,663           | Open                | Closed                 | 21.7                       | 287                            |
| 8/20/2024 | 4:00:00 | 7.2          | 0.9084                     | 24.2          | 1,663           | Open                | Closed                 | 21.6                       | 287                            |
| 8/20/2024 | 4:15:00 | 7.2          | 1.0598                     | 32.1          | 1,663           | Open                | Closed                 | 21.6                       | 287                            |
| 8/20/2024 | 4:30:00 | 7.2          | 1.04466                    | 32.8          | 1,663           | Open                | Closed                 | 21.6                       | 289                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/20/2024 | 4:45:00 | 7.2          | 0.859195                   | 52.8          | 1,663           | Open                | Closed                 | 21.6                       | 289                            |
| 8/20/2024 | 5:00:00 | 7.2          | 0.965175                   | 73.1          | 1,663           | Open                | Closed                 | 21.5                       | 289                            |
| 8/20/2024 | 5:15:00 | 7.2          | 0.813775                   | 44.3          | 1,663           | Open                | Closed                 | 21.5                       | 288                            |
| 8/20/2024 | 5:30:00 | 7.2          | 0                          | 43.2          | 1,663           | Open                | Closed                 | 21.5                       | 289                            |
| 8/20/2024 | 5:45:00 | 7.1          | 0                          | 40.7          | 1,663           | Open                | Closed                 | 21.5                       | 289                            |
| 8/20/2024 | 6:00:00 | 7.1          | 0                          | 40.7          | 1,663           | Open                | Closed                 | 21.5                       | 289                            |
| 8/20/2024 | 6:15:00 | 7.1          | 0                          | 44.9          | 1,663           | Open                | Closed                 | 21.5                       | 291                            |
| 8/20/2024 | 6:30:00 | 7.1          | 0                          | 40.4          | 1,663           | Open                | Closed                 | 21.5                       | 291                            |
| 8/20/2024 | 6:45:00 | 7.1          | 0.95382                    | 40.7          | 1,663           | Open                | Closed                 | 21.3                       | 292                            |
| 8/20/2024 | 7:00:00 | 7.1          | 0.90083                    | 36.6          | 1,663           | Open                | Closed                 | 21.3                       | 292                            |
| 8/20/2024 | 7:15:00 | 7.1          | 0.881905                   | 38.5          | 1,663           | Open                | Closed                 | 21.3                       | 291                            |
| 8/20/2024 | 7:30:00 | 7.1          | 0.859195                   | 26.2          | 1,663           | Open                | Closed                 | 21.2                       | 290                            |
| 8/20/2024 | 7:45:00 | 7.2          | 0.84027                    | 21.7          | 1,663           | Open                | Closed                 | 21.2                       | 288                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/20/2024 | 8:00:00  | 7.2          | 0.81756                    | 14.4          | 1,663           | Open                | Closed                 | 21.2                       | 288                            |
| 8/20/2024 | 8:15:00  | 7.2          | 0.806205                   | 13.1          | 1,663           | Open                | Closed                 | 21.2                       | 289                            |
| 8/20/2024 | 8:30:00  | 7.2          | 0.78728                    | 10.4          | 1,663           | Open                | Closed                 | 21.2                       | 289                            |
| 8/20/2024 | 8:45:00  | 7.3          | 0.77971                    | 10            | 1,663           | Open                | Closed                 | 21.2                       | 287                            |
| 8/20/2024 | 9:00:00  | 7.3          | 0                          | 6.7           | 1,663           | Open                | Closed                 | 21.3                       | 287                            |
| 8/20/2024 | 9:15:00  | 7.2          | 0                          | 5.4           | 1,663           | Open                | Closed                 | 21.2                       | 287                            |
| 8/20/2024 | 9:30:00  | 7.2          | 0                          | 6.3           | 1,663           | Open                | Closed                 | 21.2                       | 287                            |
| 8/20/2024 | 9:45:00  | 7.2          | 0.77214                    | 7.1           | 1,663           | Open                | Closed                 | 21.2                       | 287                            |
| 8/20/2024 | 10:00:00 | 7.2          | 0.76457                    | 2.7           | 1,663           | Open                | Closed                 | 21.2                       | 287                            |
| 8/20/2024 | 10:15:00 | 7.2          | 0.730505                   | 3.9           | 1,663           | Open                | Closed                 | 21.2                       | 287                            |
| 8/20/2024 | 10:30:00 | 7.3          | 0.71915                    | 1.7           | 1,663           | Open                | Closed                 | 21.3                       | 287                            |
| 8/20/2024 | 10:45:00 | 7.3          | 0.707795                   | 4             | 1,663           | Open                | Closed                 | 21.2                       | 287                            |
| 8/20/2024 | 11:00:00 | 7.3          | 0.69644                    | 1.6           | 1,663           | Open                | Closed                 | 21.1                       | 286                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/19/2024 | 19:15:00 | 7.2          | 0.43149                    | 14.4          | 1,660           | Open                | Closed                 | 23.2                       | 284                            |
| 8/19/2024 | 19:30:00 | 7.2          | 0.82513                    | 15.8          | 1,663           | Open                | Closed                 | 23.1                       | 284                            |
| 8/20/2024 | 11:45:00 | 7.3          | 0                          | 1.8           | 1,666           | Open                | Closed                 | 21                         | 286                            |
| 8/20/2024 | 12:00:00 | 7.4          | 0.52233                    | 402.6         | 1,666           | Open                | Closed                 | 20.9                       | 284                            |
| 8/20/2024 | 12:15:00 | 7.4          | 1.15064                    | 39.8          | 1,666           | Open                | Closed                 | 20.9                       | 282                            |
| 8/20/2024 | 12:30:00 | 7.4          | 1.373955                   | 2.3           | 1,666           | Open                | Closed                 | 20.8                       | 282                            |
| 8/20/2024 | 12:45:00 | 7.4          | 1.39288                    | 4.6           | 1,666           | Open                | Closed                 | 20.9                       | 281                            |
| 8/20/2024 | 13:00:00 | 7.4          | 1.078725                   | 0.5           | 1,666           | Open                | Closed                 | 20.9                       | 279                            |
| 8/20/2024 | 13:15:00 | 7.4          | 1.27933                    | 4.2           | 1,666           | Open                | Closed                 | 21                         | 276                            |
| 8/20/2024 | 13:30:00 | 7.4          | 0.9841                     | 0.9           | 1,666           | Open                | Closed                 | 21.1                       | 276                            |
| 8/20/2024 | 13:45:00 | 7.4          | 0.889475                   | 2.4           | 1,666           | Open                | Closed                 | 21.2                       | 276                            |
| 8/20/2024 | 14:00:00 | 7.4          | 1.230125                   | 0.9           | 1,666           | Open                | Closed                 | 21.4                       | 272                            |
| 8/20/2024 | 14:15:00 | 7.4          | 0.95382                    | 3.8           | 1,666           | Open                | Closed                 | 21.5                       | 273                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/20/2024 | 14:30:00 | 7.4          | 1.04466                    | 0.1           | 1,666           | Open                | Closed                 | 21.6                       | 269                            |
| 8/20/2024 | 14:45:00 | 7.4          | 0                          | 5.1           | 1,666           | Open                | Closed                 | 21.7                       | 269                            |
| 8/20/2024 | 15:00:00 | 7.3          | 0                          | 5.5           | 1,666           | Open                | Closed                 | 22                         | 269                            |
| 8/20/2024 | 15:15:00 | 7.2          | 1.139285                   | 72.2          | 1,666           | Open                | Closed                 | 22.3                       | 271                            |
| 8/20/2024 | 15:30:00 | 7.3          | 0.92354                    | 0             | 1,666           | Open                | Closed                 | 21.9                       | 268                            |
| 8/20/2024 | 15:45:00 | 7.3          | 0                          | 0.8           | 1,666           | Open                | Closed                 | 22.1                       | 268                            |
| 8/20/2024 | 16:00:00 | 7.2          | 0                          | 1.2           | 1,666           | Open                | Closed                 | 22.4                       | 268                            |
| 8/20/2024 | 16:15:00 | 7.2          | 0                          | 0.9           | 1,666           | Open                | Closed                 | 22.7                       | 268                            |
| 8/20/2024 | 16:30:00 | 7.2          | 0                          | 1.3           | 1,666           | Open                | Closed                 | 22.9                       | 270                            |
| 8/20/2024 | 16:45:00 | 7.2          | 0                          | 0.3           | 1,666           | Open                | Closed                 | 23.1                       | 270                            |
| 8/20/2024 | 17:00:00 | 7.1          | 0                          | 0.2           | 1,666           | Open                | Closed                 | 23.3                       | 270                            |
| 8/20/2024 | 17:15:00 | 7.1          | 0                          | 410.3         | 1,666           | Open                | Closed                 | 23.5                       | 270                            |
| 8/20/2024 | 17:30:00 | 7.1          | 0                          | 410.2         | 1,666           | Open                | Closed                 | 23.6                       | 270                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/20/2024 | 17:45:00 | 7.1          | 0                          | 410.2         | 1,666           | Open                | Closed                 | 23.7                       | 273                            |
| 8/20/2024 | 18:00:00 | 7.1          | 0                          | 410.2         | 1,666           | Open                | Closed                 | 23.8                       | 275                            |
| 8/20/2024 | 18:15:00 | 7.1          | 0                          | 410.3         | 1,666           | Open                | Closed                 | 23.8                       | 273                            |
| 8/20/2024 | 18:30:00 | 7.1          | 0                          | 410.3         | 1,666           | Open                | Closed                 | 23.9                       | 273                            |
| 8/20/2024 | 18:45:00 | 7.1          | 0                          | 410.3         | 1,666           | Open                | Closed                 | 23.9                       | 273                            |
| 8/20/2024 | 19:00:00 | 7.1          | 0                          | 410.4         | 1,666           | Open                | Closed                 | 23.9                       | 273                            |
| 8/20/2024 | 19:15:00 | 7.1          | 0                          | 0             | 1,666           | Open                | Closed                 | 23.9                       | 275                            |
| 8/20/2024 | 19:30:00 | 7.1          | 0                          | 0             | 1,666           | Open                | Closed                 | 23.9                       | 275                            |
| 8/20/2024 | 19:45:00 | 7.1          | 0                          | 0             | 1,666           | Open                | Closed                 | 23.9                       | 275                            |
| 8/20/2024 | 20:00:00 | 7.1          | 0                          | 0             | 1,666           | Open                | Closed                 | 23.9                       | 274                            |
| 8/20/2024 | 20:15:00 | 7.1          | 1.003025                   | 63.6          | 1,666           | Open                | Closed                 | 23.6                       | 274                            |
| 8/20/2024 | 20:30:00 | 7.1          | 0.9841                     | 1.4           | 1,666           | Open                | Closed                 | 21.6                       | 271                            |
| 8/20/2024 | 20:45:00 | 7.2          | 0.942465                   | 2             | 1,666           | Open                | Closed                 | 21.6                       | 269                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/20/2024 | 21:00:00 | 7.2          | 0.91597                    | 2.7           | 1,666           | Open                | Closed                 | 21.6                       | 269                            |
| 8/20/2024 | 21:15:00 | 7.2          | 0.90083                    | 8.1           | 1,666           | Open                | Closed                 | 21.6                       | 269                            |
| 8/20/2024 | 21:30:00 | 7.2          | 0.859195                   | 9.3           | 1,666           | Open                | Closed                 | 21.8                       | 268                            |
| 8/20/2024 | 21:45:00 | 7.2          | 0                          | 5             | 1,666           | Open                | Closed                 | 21.8                       | 266                            |
| 8/20/2024 | 22:00:00 | 7.2          | 0.934895                   | 11.2          | 1,666           | Open                | Closed                 | 21.7                       | 266                            |
| 8/20/2024 | 22:15:00 | 7.3          | 0                          | 2.1           | 1,666           | Open                | Closed                 | 21.7                       | 264                            |
| 8/20/2024 | 22:30:00 | 7.2          | 0.919755                   | 2             | 1,666           | Open                | Closed                 | 21.6                       | 269                            |
| 8/20/2024 | 22:45:00 | 7            | 0.480695                   | 0             | 1,672           | Closed              | Open                   | 21.6                       | 292                            |
| 8/20/2024 | 23:00:00 | 6.8          | 0.46934                    | 0             | 1,679           | Closed              | Open                   | 21.6                       | 291                            |
| 8/20/2024 | 23:15:00 | 6.9          | 0.47691                    | 0             | 1,686           | Closed              | Open                   | 21.6                       | 275                            |
| 8/20/2024 | 23:30:00 | 7            | 0.46934                    | 0.8           | 1,693           | Closed              | Open                   | 21.5                       | 266                            |
| 8/20/2024 | 23:45:00 | 7            | 0.473125                   | 0             | 1,700           | Closed              | Open                   | 21.5                       | 263                            |
| 8/21/2024 | 0:00:00  | 7.1          | 0.46177                    | 0             | 1,706           | Closed              | Open                   | 21.5                       | 261                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/21/2024 | 0:15:00 | 7.1          | 0.47691                    | 0             | 1,713           | Closed              | Open                   | 21.4                       | 261                            |
| 8/21/2024 | 0:30:00 | 7.2          | 0.473125                   | 0             | 1,721           | Closed              | Open                   | 21.4                       | 261                            |
| 8/21/2024 | 0:45:00 | 7.2          | 0.488265                   | 1.3           | 1,728           | Closed              | Open                   | 21.3                       | 259                            |
| 8/21/2024 | 1:00:00 | 7.2          | 0.77971                    | 1.6           | 1,728           | Open                | Closed                 | 21.2                       | 259                            |
| 8/21/2024 | 1:15:00 | 7.2          | 0.49962                    | 0             | 1,732           | Closed              | Open                   | 21.1                       | 259                            |
| 8/21/2024 | 1:30:00 | 7.2          | 0.503405                   | 0             | 1,739           | Closed              | Open                   | 21.1                       | 259                            |
| 8/21/2024 | 1:45:00 | 7.2          | 0.49205                    | 0             | 1,747           | Closed              | Open                   | 21.1                       | 259                            |
| 8/21/2024 | 2:00:00 | 7.2          | 0                          | 0             | 1,750           | Open                | Closed                 | 21.1                       | 257                            |
| 8/21/2024 | 2:15:00 | 7.2          | 0.56775                    | 410.9         | 1,750           | Open                | Closed                 | 21                         | 259                            |
| 8/21/2024 | 2:30:00 | 7.2          | 0                          | 102.5         | 1,750           | Open                | Closed                 | 21.1                       | 259                            |
| 8/21/2024 | 2:45:00 | 7.1          | 0                          | 79            | 1,750           | Open                | Closed                 | 21.1                       | 261                            |
| 8/21/2024 | 3:00:00 | 7.1          | 0                          | 85.6          | 1,750           | Open                | Closed                 | 21.1                       | 261                            |
| 8/21/2024 | 3:15:00 | 7.1          | 0                          | 72            | 1,750           | Open                | Closed                 | 21                         | 262                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/21/2024 | 3:30:00 | 7.1          | 0.49205                    | 29.6          | 1,750           | Open                | Closed                 | 20.9                       | 263                            |
| 8/21/2024 | 3:45:00 | 7.1          | 0                          | 30.4          | 1,750           | Open                | Closed                 | 21                         | 264                            |
| 8/21/2024 | 4:00:00 | 7.1          | 0                          | 30.8          | 1,750           | Open                | Closed                 | 21                         | 264                            |
| 8/21/2024 | 4:15:00 | 7.1          | 0                          | 34.9          | 1,750           | Open                | Closed                 | 20.9                       | 264                            |
| 8/21/2024 | 4:30:00 | 7.1          | 0                          | 32.3          | 1,750           | Open                | Closed                 | 20.9                       | 263                            |
| 8/21/2024 | 4:45:00 | 7.1          | 0                          | 53.8          | 1,750           | Open                | Closed                 | 20.8                       | 266                            |
| 8/21/2024 | 5:00:00 | 7.1          | 0                          | 57.7          | 1,750           | Open                | Closed                 | 20.8                       | 267                            |
| 8/21/2024 | 5:15:00 | 7.1          | 0                          | 34            | 1,750           | Open                | Closed                 | 20.8                       | 267                            |
| 8/21/2024 | 5:30:00 | 7.1          | 0                          | 32.1          | 1,750           | Open                | Closed                 | 20.7                       | 269                            |
| 8/21/2024 | 5:45:00 | 7.1          | 0                          | 32.7          | 1,750           | Open                | Closed                 | 20.7                       | 269                            |
| 8/21/2024 | 6:00:00 | 7.1          | 0                          | 29.7          | 1,750           | Open                | Closed                 | 20.6                       | 269                            |
| 8/21/2024 | 6:15:00 | 7.1          | 0                          | 28.1          | 1,750           | Open                | Closed                 | 20.7                       | 271                            |
| 8/21/2024 | 6:30:00 | 7.1          | 0                          | 24.5          | 1,750           | Open                | Closed                 | 20.7                       | 271                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/21/2024 | 6:45:00 | 7.1          | 0.495835                   | 18            | 1,750           | Open                | Closed                 | 20.8                       | 273                            |
| 8/21/2024 | 7:00:00 | 7.1          | 0.488265                   | 411.5         | 1,750           | Open                | Closed                 | 21                         | 269                            |
| 8/21/2024 | 7:15:00 | 7.1          | 0.46934                    | 64.1          | 1,750           | Open                | Closed                 | 21.2                       | 267                            |
| 8/21/2024 | 7:30:00 | 7.1          | 0.404995                   | 42.4          | 1,750           | Open                | Closed                 | 21.4                       | 261                            |
| 8/21/2024 | 7:45:00 | 7.1          | 0.124905                   | 57.3          | 1,750           | Open                | Closed                 | 21.5                       | 257                            |
| 8/21/2024 | 8:00:00 | 7.2          | 0.117335                   | 17.5          | 1,750           | Open                | Closed                 | 21.5                       | 256                            |
| 8/21/2024 | 8:15:00 | 7.2          | 0.382285                   | 15.1          | 1,750           | Open                | Closed                 | 21.6                       | 256                            |
| 8/21/2024 | 8:30:00 | 7.2          | 0                          | 29.2          | 1,750           | Open                | Closed                 | 21.4                       | 252                            |
| 8/21/2024 | 8:45:00 | 7.2          | 0.6056                     | 279.4         | 1,750           | Open                | Closed                 | 21.3                       | 256                            |
| 8/21/2024 | 9:00:00 | 6.8          | 0.601815                   | 140.8         | 1,750           | Open                | Closed                 | 21.4                       | 267                            |
| 8/21/2024 | 9:15:00 | 6.7          | 0.609385                   | 226.3         | 1,750           | Open                | Closed                 | 21.4                       | 262                            |
| 8/21/2024 | 9:30:00 | 6.9          | 1.018165                   | 16.1          | 1,750           | Open                | Closed                 | 21.4                       | 256                            |
| 8/21/2024 | 9:45:00 | 7            | 0.836485                   | 21.3          | 1,750           | Open                | Closed                 | 21.4                       | 254                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/21/2024 | 10:00:00 | 7            | 0.80999                    | 10.3          | 1,750           | Open                | Closed                 | 21.5                       | 254                            |
| 8/21/2024 | 10:15:00 | 7.1          | 0.9841                     | 23.8          | 1,750           | Open                | Closed                 | 21.5                       | 255                            |
| 8/21/2024 | 10:30:00 | 7.1          | 0.97653                    | 9.9           | 1,750           | Open                | Closed                 | 21.5                       | 255                            |
| 8/21/2024 | 10:45:00 | 7.1          | 0.950035                   | 24.9          | 1,750           | Open                | Closed                 | 21.5                       | 255                            |
| 8/21/2024 | 11:00:00 | 7.1          | 0.8327                     | 5.7           | 1,750           | Open                | Closed                 | 21.6                       | 255                            |
| 8/21/2024 | 11:15:00 | 7.2          | 0.851625                   | 22.4          | 1,750           | Open                | Closed                 | 21.6                       | 255                            |
| 8/21/2024 | 11:30:00 | 7.2          | 0.92354                    | 13.7          | 1,750           | Open                | Closed                 | 21.6                       | 255                            |
| 8/21/2024 | 11:45:00 | 7.2          | 0.90083                    | 31.5          | 1,750           | Open                | Closed                 | 21.5                       | 255                            |
| 8/21/2024 | 12:00:00 | 7.2          | 0.84784                    | 9.3           | 1,750           | Open                | Closed                 | 21.5                       | 255                            |
| 8/21/2024 | 12:15:00 | 7.2          | 0.836485                   | 13.9          | 1,750           | Open                | Closed                 | 21.5                       | 254                            |
| 8/21/2024 | 12:30:00 | 7.2          | 0.78728                    | 2.6           | 1,750           | Open                | Closed                 | 21.5                       | 253                            |
| 8/21/2024 | 12:45:00 | 7.2          | 0.74943                    | 0.3           | 1,750           | Open                | Closed                 | 21.5                       | 253                            |
| 8/21/2024 | 13:00:00 | 7.2          | 0.344435                   | 0.8           | 1,751           | Closed              | Open                   | 21.5                       | 255                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/21/2024 | 13:15:00 | 7.2          | 0.412565                   | 0             | 1,756           | Closed              | Open                   | 21.4                       | 255                            |
| 8/21/2024 | 13:30:00 | 7.2          | 0.39364                    | 0             | 1,763           | Closed              | Open                   | 21.4                       | 255                            |
| 8/21/2024 | 13:45:00 | 7.2          | 0.39364                    | 0             | 1,769           | Closed              | Open                   | 21.4                       | 256                            |
| 8/21/2024 | 14:00:00 | 7.2          | 0.389855                   | 0.4           | 1,775           | Closed              | Open                   | 21.4                       | 256                            |
| 8/21/2024 | 14:15:00 | 7.2          | 0.40121                    | 0.7           | 1,781           | Closed              | Open                   | 21.4                       | 256                            |
| 8/21/2024 | 14:30:00 | 7.2          | 0                          | 17.6          | 1,784           | Open                | Closed                 | 21.4                       | 256                            |
| 8/21/2024 | 14:45:00 | 7.1          | 0                          | 15.4          | 1,784           | Open                | Closed                 | 21.4                       | 258                            |
| 8/21/2024 | 15:00:00 | 7.1          | 0                          | 14.8          | 1,784           | Open                | Closed                 | 21.4                       | 257                            |
| 8/21/2024 | 15:15:00 | 7.1          | 0                          | 12.3          | 1,784           | Open                | Closed                 | 21.5                       | 257                            |
| 8/21/2024 | 15:30:00 | 7.1          | 0                          | 12.5          | 1,784           | Open                | Closed                 | 21.5                       | 259                            |
| 8/21/2024 | 15:45:00 | 7            | 0                          | 13.7          | 1,784           | Open                | Closed                 | 21.5                       | 259                            |
| 8/21/2024 | 16:00:00 | 7            | 0                          | 13.4          | 1,784           | Open                | Closed                 | 21.5                       | 259                            |
| 8/21/2024 | 16:15:00 | 7            | 0                          | 13.2          | 1,784           | Open                | Closed                 | 21.5                       | 259                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/21/2024 | 16:30:00 | 7            | 0                          | 12.2          | 1,784           | Open                | Closed                 | 21.6                       | 259                            |
| 8/21/2024 | 16:45:00 | 7            | 0                          | 12.8          | 1,784           | Open                | Closed                 | 21.6                       | 259                            |
| 8/21/2024 | 17:00:00 | 7            | 0                          | 12.1          | 1,784           | Open                | Closed                 | 21.6                       | 259                            |
| 8/21/2024 | 17:15:00 | 7            | 0                          | 9.8           | 1,784           | Open                | Closed                 | 21.6                       | 259                            |
| 8/21/2024 | 17:30:00 | 7            | 0                          | 8.5           | 1,784           | Open                | Closed                 | 21.6                       | 259                            |
| 8/21/2024 | 17:45:00 | 7            | 0                          | 8.1           | 1,784           | Open                | Closed                 | 21.6                       | 261                            |
| 8/21/2024 | 18:00:00 | 7            | 0.49205                    | 14.7          | 1,784           | Open                | Closed                 | 21.2                       | 266                            |
| 8/21/2024 | 18:15:00 | 7.1          | 0.56018                    | 411.3         | 1,784           | Open                | Closed                 | 21.2                       | 265                            |
| 8/21/2024 | 18:30:00 | 7.1          | 0.65102                    | 411.3         | 1,784           | Open                | Closed                 | 21.3                       | 266                            |
| 8/21/2024 | 18:45:00 | 7.2          | 0.56018                    | 411.3         | 1,784           | Open                | Closed                 | 21.4                       | 267                            |
| 8/21/2024 | 19:00:00 | 7.2          | 1.24905                    | 411.3         | 1,784           | Open                | Closed                 | 21.4                       | 267                            |
| 8/21/2024 | 19:15:00 | 7.2          | 0.59046                    | 411.2         | 1,784           | Open                | Closed                 | 21.4                       | 276                            |
| 8/21/2024 | 19:30:00 | 7            | 0.53747                    | 411.1         | 1,784           | Open                | Closed                 | 21.3                       | 296                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/21/2024 | 19:45:00 | 6.8          | 0.897045                   | 240.7         | 1,784           | Open                | Closed                 | 21.3                       | 292                            |
| 8/21/2024 | 20:00:00 | 6.9          | 0.66616                    | 411.3         | 1,784           | Open                | Closed                 | 21.3                       | 281                            |
| 8/21/2024 | 20:15:00 | 7            | 0.68887                    | 411.1         | 1,784           | Open                | Closed                 | 21.2                       | 274                            |
| 8/21/2024 | 20:30:00 | 7            | 0.662375                   | 176.3         | 1,784           | Open                | Closed                 | 21.2                       | 274                            |
| 8/21/2024 | 20:45:00 | 7.1          | 0.662375                   | 79.7          | 1,784           | Open                | Closed                 | 21.1                       | 274                            |
| 8/21/2024 | 21:00:00 | 7.1          | 0.65102                    | 65.7          | 1,784           | Open                | Closed                 | 21.1                       | 276                            |
| 8/21/2024 | 21:15:00 | 7.1          | 0.647235                   | 7.9           | 1,784           | Open                | Closed                 | 21.1                       | 275                            |
| 8/21/2024 | 21:30:00 | 7.1          | 0.639665                   | 10.8          | 1,784           | Open                | Closed                 | 21.1                       | 277                            |
| 8/21/2024 | 21:45:00 | 7.1          | 0.616955                   | 15.1          | 1,784           | Open                | Closed                 | 21.1                       | 277                            |
| 8/21/2024 | 22:00:00 | 7.1          | 0.601815                   | 70            | 1,784           | Open                | Closed                 | 21                         | 277                            |
| 8/21/2024 | 22:15:00 | 7.1          | 0.586675                   | 37.8          | 1,784           | Open                | Closed                 | 21                         | 277                            |
| 8/21/2024 | 22:30:00 | 7.1          | 0.56018                    | 31.3          | 1,784           | Open                | Closed                 | 21                         | 277                            |
| 8/21/2024 | 22:45:00 | 7.1          | 0.556395                   | 28.7          | 1,784           | Open                | Closed                 | 20.9                       | 277                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/21/2024 | 23:00:00 | 7.1          | 0.54504                    | 26.6          | 1,784           | Open                | Closed                 | 20.9                       | 277                            |
| 8/21/2024 | 23:15:00 | 7.1          | 0.53747                    | 20.3          | 1,784           | Open                | Closed                 | 20.9                       | 278                            |
| 8/21/2024 | 23:30:00 | 7.1          | 0.46934                    | 16.4          | 1,784           | Open                | Closed                 | 20.9                       | 278                            |
| 8/21/2024 | 23:45:00 | 7.1          | 0.457985                   | 15.5          | 1,784           | Open                | Closed                 | 20.9                       | 279                            |
| 8/22/2024 | 0:00:00  | 7.1          | 2.14988                    | 383.3         | 1,784           | Open                | Closed                 | 20.8                       | 278                            |
| 8/22/2024 | 0:15:00  | 7.1          | 0.65102                    | 109.1         | 1,784           | Open                | Closed                 | 20.7                       | 277                            |
| 8/22/2024 | 0:30:00  | 7.1          | 0.62074                    | 30.6          | 1,784           | Open                | Closed                 | 20.7                       | 278                            |
| 8/22/2024 | 0:45:00  | 7.1          | 0.58289                    | 20.5          | 1,784           | Open                | Closed                 | 20.7                       | 278                            |
| 8/22/2024 | 1:00:00  | 7.1          | 0.571535                   | 20.2          | 1,784           | Open                | Closed                 | 20.7                       | 280                            |
| 8/22/2024 | 1:15:00  | 7.1          | 0.56018                    | 17.9          | 1,784           | Open                | Closed                 | 20.7                       | 280                            |
| 8/22/2024 | 1:30:00  | 7.1          | 0.2271                     | 336           | 1,784           | Open                | Closed                 | 20.6                       | 277                            |
| 8/22/2024 | 1:45:00  | 7.1          | 0.548825                   | 123.5         | 1,784           | Open                | Closed                 | 20.6                       | 278                            |
| 8/22/2024 | 2:00:00  | 7.1          | 0.563965                   | 31.1          | 1,784           | Open                | Closed                 | 20.6                       | 278                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/22/2024 | 2:15:00 | 7.1          | 0.548825                   | 22.4          | 1,784           | Open                | Closed                 | 20.6                       | 278                            |
| 8/22/2024 | 2:30:00 | 7.1          | 0.5299                     | 20.8          | 1,784           | Open                | Closed                 | 20.5                       | 278                            |
| 8/22/2024 | 2:45:00 | 7.1          | 0.510975                   | 19.5          | 1,784           | Open                | Closed                 | 20.5                       | 280                            |
| 8/22/2024 | 3:00:00 | 7.1          | 0.518545                   | 85            | 1,784           | Open                | Closed                 | 20.5                       | 280                            |
| 8/22/2024 | 3:15:00 | 7.1          | 0.526115                   | 7.2           | 1,784           | Open                | Closed                 | 20.5                       | 280                            |
| 8/22/2024 | 3:30:00 | 7.1          | 0.49962                    | 3             | 1,784           | Open                | Closed                 | 20.5                       | 280                            |
| 8/22/2024 | 3:45:00 | 7            | 0.526115                   | 0             | 1,792           | Closed              | Open                   | 20.5                       | 280                            |
| 8/22/2024 | 4:00:00 | 7            | 0.51476                    | 0             | 1,800           | Closed              | Open                   | 20.4                       | 280                            |
| 8/22/2024 | 4:15:00 | 7            | 0.49962                    | 0             | 1,807           | Closed              | Open                   | 20.4                       | 280                            |
| 8/22/2024 | 4:30:00 | 7            | 0                          | 0             | 1,813           | Closed              | Open                   | 20.4                       | 280                            |
| 8/22/2024 | 4:45:00 | 7            | 0.503405                   | 0             | 1,815           | Closed              | Open                   | 20.3                       | 278                            |
| 8/22/2024 | 5:00:00 | 7            | 0.480695                   | 0             | 1,823           | Closed              | Open                   | 20.3                       | 280                            |
| 8/22/2024 | 5:15:00 | 7            | 0.412565                   | 57.2          | 1,830           | Open                | Closed                 | 20.2                       | 280                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/22/2024 | 5:30:00 | 7            | 0                          | 43.9          | 1,830           | Open                | Closed                 | 20.2                       | 278                            |
| 8/22/2024 | 5:45:00 | 7            | 0                          | 40.6          | 1,830           | Open                | Closed                 | 20.1                       | 280                            |
| 8/22/2024 | 6:00:00 | 7            | 0                          | 39            | 1,830           | Open                | Closed                 | 20.1                       | 280                            |
| 8/22/2024 | 6:15:00 | 7            | 0                          | 41.9          | 1,830           | Open                | Closed                 | 20.1                       | 280                            |
| 8/22/2024 | 6:30:00 | 7            | 0                          | 38.6          | 1,830           | Open                | Closed                 | 20                         | 280                            |
| 8/22/2024 | 6:45:00 | 7            | 0                          | 35.8          | 1,830           | Open                | Closed                 | 19.8                       | 279                            |
| 8/22/2024 | 7:00:00 | 7            | 0                          | 36.9          | 1,830           | Open                | Closed                 | 19.7                       | 279                            |
| 8/22/2024 | 7:15:00 | 7            | 0                          | 34.9          | 1,830           | Open                | Closed                 | 19.6                       | 280                            |
| 8/22/2024 | 7:30:00 | 7.1          | 0.68887                    | 374.8         | 1,830           | Open                | Closed                 | 19.6                       | 278                            |
| 8/22/2024 | 7:45:00 | 7.2          | 1.207415                   | 80.8          | 1,830           | Open                | Closed                 | 19.3                       | 275                            |
| 8/22/2024 | 8:00:00 | 7.2          | 0.972745                   | 294.2         | 1,830           | Open                | Closed                 | 19.3                       | 275                            |
| 8/22/2024 | 8:15:00 | 7.3          | 1.214985                   | 62.6          | 1,830           | Open                | Closed                 | 19.3                       | 275                            |
| 8/22/2024 | 8:30:00 | 7.3          | 0.96139                    | 167.8         | 1,830           | Open                | Closed                 | 19.3                       | 276                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/22/2024 | 8:45:00  | 7.3          | 1.18849                    | 39.6          | 1,830           | Open                | Closed                 | 19.4                       | 276                            |
| 8/22/2024 | 9:00:00  | 7.3          | 0.685085                   | 101.6         | 1,830           | Open                | Closed                 | 19.4                       | 275                            |
| 8/22/2024 | 9:15:00  | 7.3          | 0.62831                    | 411.3         | 1,830           | Open                | Closed                 | 19.6                       | 274                            |
| 8/22/2024 | 9:30:00  | 7.3          | 0.5299                     | 200.1         | 1,830           | Open                | Closed                 | 19.5                       | 275                            |
| 8/22/2024 | 9:45:00  | 7.3          | 0                          | 229.2         | 1,830           | Open                | Closed                 | 19.6                       | 275                            |
| 8/22/2024 | 10:00:00 | 7.3          | 0.80999                    | 31.8          | 1,830           | Open                | Closed                 | 19.5                       | 282                            |
| 8/22/2024 | 10:15:00 | 7.2          | 0.77214                    | 3.4           | 1,830           | Open                | Closed                 | 19.7                       | 282                            |
| 8/22/2024 | 10:30:00 | 7.2          | 0.753215                   | 0.8           | 1,830           | Open                | Closed                 | 19.8                       | 281                            |
| 8/22/2024 | 10:45:00 | 7.2          | 0.757                      | 0.1           | 1,830           | Open                | Closed                 | 19.9                       | 279                            |
| 8/22/2024 | 11:00:00 | 7.2          | 0.73429                    | 0             | 1,830           | Open                | Closed                 | 20                         | 277                            |
| 8/22/2024 | 11:15:00 | 7.2          | 0.707795                   | 0             | 1,830           | Open                | Closed                 | 20                         | 278                            |
| 8/22/2024 | 11:30:00 | 7.2          | 0.700225                   | 0.3           | 1,830           | Open                | Closed                 | 20.1                       | 277                            |
| 8/22/2024 | 11:45:00 | 7.2          | 0.412565                   | 0             | 1,833           | Closed              | Open                   | 20.1                       | 281                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/22/2024 | 12:00:00 | 7.2          | 0.39364                    | 0             | 1,839           | Closed              | Open                   | 20.2                       | 281                            |
| 8/22/2024 | 12:15:00 | 7.2          | 0.39364                    | 0             | 1,845           | Closed              | Open                   | 20.3                       | 281                            |
| 8/22/2024 | 12:30:00 | 7.2          | 0.389855                   | 0             | 1,851           | Closed              | Open                   | 20.3                       | 282                            |
| 8/22/2024 | 12:45:00 | 7.2          | 0.40121                    | 0             | 1,857           | Closed              | Open                   | 20.3                       | 282                            |
| 8/22/2024 | 13:00:00 | 7.2          | 0.44663                    | 0             | 1,863           | Open                | Closed                 | 20.4                       | 282                            |
| 8/22/2024 | 13:15:00 | 7.2          | 0.677515                   | 0             | 1,863           | Open                | Closed                 | 20.4                       | 282                            |
| 8/22/2024 | 13:30:00 | 7.2          | 0.442845                   | 0             | 1,863           | Open                | Closed                 | 20.4                       | 281                            |
| 8/22/2024 | 13:45:00 | 7.2          | 0.67373                    | 4             | 1,863           | Open                | Closed                 | 20.4                       | 281                            |
| 8/22/2024 | 14:00:00 | 7.2          | 0.669945                   | 0.4           | 1,863           | Open                | Closed                 | 20.5                       | 281                            |
| 8/22/2024 | 14:15:00 | 7.2          | 0.647235                   | 0             | 1,863           | Open                | Closed                 | 20.6                       | 281                            |
| 8/22/2024 | 14:30:00 | 7.2          | 0.63588                    | 0             | 1,863           | Open                | Closed                 | 20.7                       | 281                            |
| 8/22/2024 | 14:45:00 | 7.2          | 0                          | 0             | 1,863           | Open                | Closed                 | 20.7                       | 281                            |
| 8/22/2024 | 15:00:00 | 7.2          | 0                          | 0             | 1,863           | Open                | Closed                 | 21                         | 281                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/22/2024 | 15:15:00 | 7.2          | 0                          | 0             | 1,863           | Open                | Closed                 | 21.2                       | 281                            |
| 8/22/2024 | 15:30:00 | 7.2          | 0.669945                   | 3.3           | 1,863           | Open                | Closed                 | 20.8                       | 281                            |
| 8/22/2024 | 15:45:00 | 7.2          | 0.65859                    | 0             | 1,863           | Open                | Closed                 | 20.8                       | 283                            |
| 8/22/2024 | 16:00:00 | 7.2          | 0                          | 0             | 1,863           | Open                | Closed                 | 21                         | 283                            |
| 8/22/2024 | 16:15:00 | 7.2          | 0                          | 0             | 1,863           | Open                | Closed                 | 21.2                       | 283                            |
| 8/22/2024 | 16:30:00 | 7.2          | 0                          | 0             | 1,863           | Open                | Closed                 | 21.4                       | 283                            |
| 8/22/2024 | 16:45:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 21.6                       | 284                            |
| 8/22/2024 | 17:00:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 21.7                       | 283                            |
| 8/22/2024 | 17:15:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 21.9                       | 284                            |
| 8/22/2024 | 17:30:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22                         | 284                            |
| 8/22/2024 | 17:45:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.1                       | 283                            |
| 8/22/2024 | 18:00:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.2                       | 284                            |
| 8/22/2024 | 18:15:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.3                       | 284                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/22/2024 | 18:30:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.3                       | 284                            |
| 8/22/2024 | 18:45:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.4                       | 284                            |
| 8/22/2024 | 19:00:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.4                       | 284                            |
| 8/22/2024 | 19:15:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.5                       | 284                            |
| 8/22/2024 | 19:30:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.5                       | 286                            |
| 8/22/2024 | 19:45:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.5                       | 286                            |
| 8/22/2024 | 20:00:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.5                       | 286                            |
| 8/22/2024 | 20:15:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.5                       | 286                            |
| 8/22/2024 | 20:30:00 | 7.1          | 0                          | 0             | 1,863           | Open                | Closed                 | 22.5                       | 286                            |
| 8/22/2024 | 20:45:00 | 7.1          | 0.68887                    | 58.1          | 1,863           | Open                | Closed                 | 22.1                       | 285                            |
| 8/22/2024 | 21:00:00 | 7.1          | 0                          | 1.8           | 1,863           | Open                | Closed                 | 20.7                       | 286                            |
| 8/22/2024 | 21:15:00 | 7.2          | 1.14307                    | 19.1          | 1,863           | Open                | Closed                 | 20.5                       | 279                            |
| 8/22/2024 | 21:30:00 | 7.2          | 1.570775                   | 18.2          | 1,863           | Open                | Closed                 | 20.3                       | 279                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/22/2024 | 21:45:00 | 7.2          | 0.87812                    | 8.5           | 1,863           | Open                | Closed                 | 20.4                       | 279                            |
| 8/22/2024 | 22:00:00 | 7.2          | 0.844055                   | 0.9           | 1,863           | Open                | Closed                 | 20.3                       | 279                            |
| 8/22/2024 | 22:15:00 | 7.2          | 0.85541                    | 0.2           | 1,863           | Open                | Closed                 | 20.3                       | 281                            |
| 8/22/2024 | 22:30:00 | 7.2          | 0.844055                   | 0.2           | 1,863           | Open                | Closed                 | 19.9                       | 281                            |
| 8/22/2024 | 22:45:00 | 7.3          | 0.8327                     | 0             | 1,863           | Open                | Closed                 | 19.6                       | 282                            |
| 8/22/2024 | 23:00:00 | 7.3          | 0.8327                     | 2.3           | 1,863           | Open                | Closed                 | 19.3                       | 283                            |
| 8/22/2024 | 23:15:00 | 7.3          | 0.8327                     | 0             | 1,863           | Open                | Closed                 | 19.1                       | 283                            |
| 8/22/2024 | 23:30:00 | 7.3          | 0.97653                    | 29.1          | 1,863           | Open                | Closed                 | 18.7                       | 283                            |
| 8/22/2024 | 23:45:00 | 7.3          | 1.57456                    | 3.2           | 1,863           | Open                | Closed                 | 18.6                       | 281                            |
| 8/23/2024 | 0:00:00  | 7.4          | 1.56699                    | 1.7           | 1,863           | Open                | Closed                 | 18.4                       | 279                            |
| 8/23/2024 | 0:15:00  | 7.4          | 1.570775                   | 1.9           | 1,863           | Open                | Closed                 | 18.3                       | 279                            |
| 8/23/2024 | 0:30:00  | 7.4          | 1.56699                    | 1.8           | 1,863           | Open                | Closed                 | 18.2                       | 282                            |
| 8/23/2024 | 0:45:00  | 7.4          | 1.56699                    | 2.8           | 1,863           | Open                | Closed                 | 18.1                       | 282                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/23/2024 | 1:00:00 | 7.4          | 0.39364                    | 0.2           | 1,863           | Open                | Closed                 | 18.3                       | 283                            |
| 8/23/2024 | 1:15:00 | 7.4          | 0.397425                   | 0.1           | 1,869           | Closed              | Open                   | 18.2                       | 285                            |
| 8/23/2024 | 1:30:00 | 7.3          | 0.465555                   | 2.5           | 1,875           | Closed              | Open                   | 18.1                       | 297                            |
| 8/23/2024 | 1:45:00 | 7.1          | 1.366385                   | 186.2         | 1,875           | Open                | Closed                 | 17.9                       | 297                            |
| 8/23/2024 | 2:00:00 | 7.1          | 1.495075                   | 410.9         | 1,875           | Open                | Closed                 | 17.6                       | 286                            |
| 8/23/2024 | 2:15:00 | 7.2          | 0.556395                   | 105           | 1,875           | Open                | Closed                 | 17.7                       | 285                            |
| 8/23/2024 | 2:30:00 | 7.2          | 1.555635                   | 75.8          | 1,875           | Open                | Closed                 | 17.6                       | 285                            |
| 8/23/2024 | 2:45:00 | 7.2          | 1.55185                    | 118.7         | 1,875           | Open                | Closed                 | 17.6                       | 288                            |
| 8/23/2024 | 3:00:00 | 7.1          | 1.2112                     | 79.4          | 1,875           | Open                | Closed                 | 17.6                       | 285                            |
| 8/23/2024 | 3:15:00 | 7.2          | 0.41635                    | 14.2          | 1,875           | Open                | Closed                 | 17.7                       | 288                            |
| 8/23/2024 | 3:30:00 | 7.2          | 1.623765                   | 51.6          | 1,875           | Open                | Closed                 | 17.4                       | 283                            |
| 8/23/2024 | 3:45:00 | 7.2          | 1.018165                   | 197.4         | 1,875           | Open                | Closed                 | 17.6                       | 287                            |
| 8/23/2024 | 4:00:00 | 7.1          | 1.199845                   | 26.4          | 1,875           | Open                | Closed                 | 17.5                       | 285                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/23/2024 | 4:15:00 | 7.2          | 0.912185                   | 174.3         | 1,875           | Open                | Closed                 | 17.6                       | 285                            |
| 8/23/2024 | 4:30:00 | 7.2          | 1.063585                   | 35.6          | 1,875           | Open                | Closed                 | 17.6                       | 285                            |
| 8/23/2024 | 4:45:00 | 7.2          | 1.003025                   | 117.6         | 1,875           | Open                | Closed                 | 17.3                       | 287                            |
| 8/23/2024 | 5:00:00 | 7.1          | 1.601055                   | 90.2          | 1,875           | Open                | Closed                 | 17.6                       | 287                            |
| 8/23/2024 | 5:15:00 | 7.2          | 1.22634                    | 71.7          | 1,875           | Open                | Closed                 | 17.6                       | 285                            |
| 8/23/2024 | 5:30:00 | 7.3          | 1.585915                   | 174           | 1,875           | Open                | Closed                 | 17.2                       | 282                            |
| 8/23/2024 | 5:45:00 | 7.2          | 1.585915                   | 195.9         | 1,875           | Open                | Closed                 | 17.8                       | 287                            |
| 8/23/2024 | 6:00:00 | 7.1          | 1.585915                   | 122.1         | 1,875           | Open                | Closed                 | 17.8                       | 286                            |
| 8/23/2024 | 6:15:00 | 7.2          | 0                          | 78.3          | 1,875           | Open                | Closed                 | 18.1                       | 283                            |
| 8/23/2024 | 6:30:00 | 7.1          | 0                          | 85.4          | 1,875           | Open                | Closed                 | 18.3                       | 283                            |
| 8/23/2024 | 6:45:00 | 7.1          | 0                          | 82.3          | 1,875           | Open                | Closed                 | 18.6                       | 283                            |
| 8/23/2024 | 7:00:00 | 7.1          | 0                          | 84.3          | 1,875           | Open                | Closed                 | 18.7                       | 283                            |
| 8/23/2024 | 7:15:00 | 7.1          | 0                          | 79.5          | 1,875           | Open                | Closed                 | 18.9                       | 283                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/23/2024 | 7:30:00  | 7.1          | 0                          | 80.6          | 1,875           | Open                | Closed                 | 19                         | 285                            |
| 8/23/2024 | 7:45:00  | 7.1          | 0                          | 77.4          | 1,875           | Open                | Closed                 | 19.1                       | 285                            |
| 8/23/2024 | 8:00:00  | 7.1          | 0                          | 75.6          | 1,875           | Open                | Closed                 | 19.3                       | 285                            |
| 8/23/2024 | 8:15:00  | 7.1          | 0                          | 70.6          | 1,875           | Open                | Closed                 | 19.4                       | 285                            |
| 8/23/2024 | 8:30:00  | 7.1          | 0                          | 67            | 1,875           | Open                | Closed                 | 19.5                       | 285                            |
| 8/23/2024 | 8:45:00  | 7.1          | 0                          | 68.9          | 1,875           | Open                | Closed                 | 19.6                       | 287                            |
| 8/23/2024 | 9:00:00  | 7.1          | 0                          | 65            | 1,875           | Open                | Closed                 | 19.6                       | 285                            |
| 8/23/2024 | 9:15:00  | 7.1          | 0                          | 64.1          | 1,875           | Open                | Closed                 | 19.7                       | 287                            |
| 8/23/2024 | 9:30:00  | 7.1          | 1.063585                   | 20.5          | 1,875           | Open                | Closed                 | 17.5                       | 285                            |
| 8/23/2024 | 9:45:00  | 7.2          | 1.025735                   | 6.7           | 1,875           | Open                | Closed                 | 17.6                       | 283                            |
| 8/23/2024 | 10:00:00 | 7.2          | 0.87055                    | 2.9           | 1,875           | Open                | Closed                 | 17.7                       | 283                            |
| 8/23/2024 | 10:15:00 | 7.2          | 0.647235                   | 0.9           | 1,880           | Closed              | Open                   | 17.8                       | 283                            |
| 8/23/2024 | 10:30:00 | 7.3          | 0.52233                    | 0.6           | 1,889           | Closed              | Open                   | 17.8                       | 283                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/23/2024 | 10:45:00 | 7.2          | 0.526115                   | 2             | 1,897           | Open                | Open                   | 17.8                       | 290                            |
| 8/23/2024 | 11:00:00 | 7            | 0.526115                   | 55.7          | 1,897           | Open                | Closed                 | 17.9                       | 293                            |
| 8/23/2024 | 11:15:00 | 7            | 1.02195                    | 221.8         | 1,897           | Open                | Closed                 | 18.4                       | 292                            |
| 8/23/2024 | 11:30:00 | 7.1          | 1.010595                   | 83.2          | 1,897           | Open                | Closed                 | 18.9                       | 288                            |
| 8/23/2024 | 11:45:00 | 7.1          | 0.87812                    | 19.3          | 1,897           | Open                | Closed                 | 18.8                       | 288                            |
| 8/23/2024 | 12:00:00 | 7.2          | 0.881905                   | 7.1           | 1,897           | Open                | Closed                 | 18.7                       | 288                            |
| 8/23/2024 | 12:15:00 | 7.2          | 0.738075                   | 3             | 1,897           | Open                | Closed                 | 18.7                       | 288                            |
| 8/23/2024 | 12:30:00 | 7.2          | 0.68887                    | 1.5           | 1,904           | Closed              | Open                   | 18.6                       | 288                            |
| 8/23/2024 | 12:45:00 | 7.2          | 0.67373                    | 1.2           | 1,914           | Closed              | Open                   | 18.7                       | 289                            |
| 8/23/2024 | 13:00:00 | 7.2          | 0.669945                   | 1.4           | 1,924           | Closed              | Open                   | 18.7                       | 288                            |
| 8/23/2024 | 13:15:00 | 7.3          | 0.67373                    | 1.9           | 1,934           | Open                | Closed                 | 18.7                       | 288                            |
| 8/23/2024 | 13:30:00 | 7.2          | 0.889475                   | 19.6          | 1,934           | Open                | Closed                 | 18.7                       | 295                            |
| 8/23/2024 | 13:45:00 | 7            | 0.78728                    | 41.4          | 1,934           | Open                | Closed                 | 19                         | 295                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/23/2024 | 14:00:00 | 7.1          | 0.859195                   | 7             | 1,934           | Open                | Closed                 | 19.6                       | 288                            |
| 8/23/2024 | 14:15:00 | 7.1          | 0.768355                   | 0.8           | 1,941           | Closed              | Open                   | 19.7                       | 286                            |
| 8/23/2024 | 14:30:00 | 7.2          | 0.745645                   | 0.5           | 1,952           | Closed              | Open                   | 19.6                       | 286                            |
| 8/23/2024 | 14:45:00 | 7.2          | 0                          | 0             | 1,962           | Open                | Closed                 | 19.5                       | 286                            |
| 8/23/2024 | 15:00:00 | 7.2          | 0                          | 0             | 1,962           | Open                | Closed                 | 19.7                       | 284                            |
| 8/23/2024 | 15:15:00 | 7.2          | 0.753215                   | 11            | 1,962           | Open                | Closed                 | 19.5                       | 284                            |
| 8/23/2024 | 15:30:00 | 7.2          | 0.8327                     | 6.5           | 1,962           | Open                | Closed                 | 19.1                       | 283                            |
| 8/23/2024 | 15:45:00 | 7.2          | 0.851625                   | 3.9           | 1,962           | Open                | Closed                 | 19                         | 284                            |
| 8/23/2024 | 16:00:00 | 7.3          | 0                          | 4.3           | 1,962           | Open                | Closed                 | 18.8                       | 283                            |
| 8/23/2024 | 16:15:00 | 7.2          | 0                          | 4             | 1,962           | Open                | Closed                 | 19                         | 284                            |
| 8/23/2024 | 16:30:00 | 7.2          | 0                          | 3.8           | 1,962           | Open                | Closed                 | 19.2                       | 284                            |
| 8/23/2024 | 16:45:00 | 7.2          | 0                          | 3.3           | 1,962           | Open                | Closed                 | 19.4                       | 284                            |
| 8/23/2024 | 17:00:00 | 7.2          | 0                          | 4.3           | 1,962           | Open                | Closed                 | 19.5                       | 285                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/23/2024 | 17:15:00 | 7.1          | 0                          | 3.8           | 1,962           | Open                | Closed                 | 19.7                       | 286                            |
| 8/23/2024 | 17:30:00 | 7.1          | 0                          | 1.4           | 1,962           | Open                | Closed                 | 19.8                       | 287                            |
| 8/23/2024 | 17:45:00 | 7.1          | 0                          | 1.8           | 1,962           | Open                | Closed                 | 19.9                       | 287                            |
| 8/23/2024 | 18:00:00 | 7.1          | 0                          | 1.7           | 1,962           | Open                | Closed                 | 20                         | 287                            |
| 8/23/2024 | 18:15:00 | 7.1          | 0                          | 1.2           | 1,962           | Open                | Closed                 | 20.1                       | 287                            |
| 8/23/2024 | 18:30:00 | 7.1          | 0                          | 1.2           | 1,962           | Open                | Closed                 | 20.1                       | 287                            |
| 8/23/2024 | 18:45:00 | 7.1          | 0.859195                   | 34.6          | 1,962           | Open                | Closed                 | 18.6                       | 287                            |
| 8/23/2024 | 19:00:00 | 7.2          | 0.897045                   | 87.3          | 1,962           | Open                | Closed                 | 18.2                       | 278                            |
| 8/23/2024 | 19:15:00 | 7.2          | 0.88569                    | 129.9         | 1,962           | Open                | Closed                 | 18.1                       | 272                            |
| 8/23/2024 | 19:30:00 | 7.2          | 0.86298                    | 136.8         | 1,962           | Open                | Closed                 | 18.1                       | 267                            |
| 8/23/2024 | 19:45:00 | 7.2          | 0                          | 121.9         | 1,962           | Open                | Closed                 | 18.3                       | 265                            |
| 8/23/2024 | 20:00:00 | 7.2          | 0.80999                    | 97.9          | 1,962           | Open                | Closed                 | 18.1                       | 266                            |
| 8/23/2024 | 20:15:00 | 7.2          | 0.813775                   | 62.1          | 1,962           | Open                | Closed                 | 18.1                       | 266                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/23/2024 | 20:30:00 | 7.2          | 0                          | 56.3          | 1,962           | Open                | Closed                 | 18.3                       | 264                            |
| 8/23/2024 | 20:45:00 | 7.2          | 0.84784                    | 46.3          | 1,962           | Open                | Closed                 | 18.1                       | 264                            |
| 8/23/2024 | 21:00:00 | 7.2          | 0.813775                   | 24.4          | 1,962           | Open                | Closed                 | 18.1                       | 263                            |
| 8/23/2024 | 21:15:00 | 7.3          | 0.78728                    | 15            | 1,962           | Open                | Closed                 | 18.1                       | 269                            |
| 8/23/2024 | 21:30:00 | 7.1          | 0.836485                   | 17.7          | 1,962           | Open                | Closed                 | 18.1                       | 277                            |
| 8/23/2024 | 21:45:00 | 7            | 0.435275                   | 14.6          | 1,962           | Open                | Closed                 | 18.1                       | 280                            |
| 8/23/2024 | 22:00:00 | 7            | 0.68887                    | 14            | 1,962           | Open                | Closed                 | 18.3                       | 277                            |
| 8/23/2024 | 22:15:00 | 7.1          | 0.685085                   | 12.9          | 1,966           | Closed              | Open                   | 18.4                       | 277                            |
| 8/23/2024 | 22:30:00 | 7.1          | 0.65102                    | 9.9           | 1,972           | Open                | Closed                 | 18.4                       | 277                            |
| 8/23/2024 | 22:45:00 | 7.2          | 0.639665                   | 8.5           | 1,972           | Open                | Closed                 | 18.3                       | 277                            |
| 8/23/2024 | 23:00:00 | 7.2          | 0.533685                   | 6.6           | 1,972           | Open                | Closed                 | 18.2                       | 275                            |
| 8/23/2024 | 23:15:00 | 7.2          | 0.616955                   | 8             | 1,980           | Closed              | Open                   | 18.2                       | 273                            |
| 8/23/2024 | 23:30:00 | 7.2          | 0.518545                   | 3.8           | 1,982           | Open                | Closed                 | 18                         | 273                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/23/2024 | 23:45:00 | 7.2          | 0.61317                    | 5.9           | 1,983           | Closed              | Open                   | 17.9                       | 270                            |
| 8/24/2024 | 0:00:00  | 7.2          | 0.5299                     | 4.2           | 1,991           | Closed              | Open                   | 17.8                       | 270                            |
| 8/24/2024 | 0:15:00  | 7.2          | 0.49962                    | 3.2           | 1,999           | Closed              | Open                   | 17.7                       | 265                            |
| 8/24/2024 | 0:30:00  | 7.2          | 0.54504                    | 3.3           | 2,007           | Closed              | Open                   | 17.6                       | 265                            |
| 8/24/2024 | 0:45:00  | 7.1          | 0.495835                   | 3.6           | 2,014           | Closed              | Open                   | 17.4                       | 274                            |
| 8/24/2024 | 1:00:00  | 7            | 0.40878                    | 2.5           | 2,018           | Open                | Closed                 | 17.3                       | 275                            |
| 8/24/2024 | 1:15:00  | 6.9          | 0.473125                   | 3.1           | 2,018           | Open                | Closed                 | 17.3                       | 272                            |
| 8/24/2024 | 1:30:00  | 7            | 0.662375                   | 362.3         | 2,018           | Open                | Closed                 | 17.1                       | 262                            |
| 8/24/2024 | 1:45:00  | 7.1          | 1.15821                    | 66            | 2,018           | Open                | Closed                 | 17.3                       | 257                            |
| 8/24/2024 | 2:00:00  | 7.1          | 0.836485                   | 21.3          | 2,018           | Open                | Closed                 | 17.6                       | 252                            |
| 8/24/2024 | 2:15:00  | 7.2          | 0.8327                     | 21.2          | 2,018           | Open                | Closed                 | 17.4                       | 248                            |
| 8/24/2024 | 2:30:00  | 7.2          | 0.821345                   | 26.1          | 2,018           | Open                | Closed                 | 17.1                       | 116                            |
| 8/24/2024 | 2:45:00  | 7.2          | 0.87812                    | 42.2          | 2,018           | Open                | Closed                 | 16.9                       | 115                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/24/2024 | 3:00:00 | 7.2          | 0.71915                    | 411.7         | 2,018           | Open                | Closed                 | 17.2                       | 248                            |
| 8/24/2024 | 3:15:00 | 7.2          | 0.96896                    | 349           | 2,018           | Open                | Closed                 | 17.5                       | 248                            |
| 8/24/2024 | 3:30:00 | 7.2          | 0.9084                     | 293.1         | 2,018           | Open                | Closed                 | 17.6                       | 247                            |
| 8/24/2024 | 3:45:00 | 7.2          | 1.517785                   | 149.6         | 2,018           | Open                | Closed                 | 17.7                       | 116                            |
| 8/24/2024 | 4:00:00 | 7.2          | 1.49886                    | 105           | 2,018           | Open                | Closed                 | 17.8                       | 116                            |
| 8/24/2024 | 4:15:00 | 7.2          | 1.16578                    | 62.6          | 2,018           | Open                | Closed                 | 17.7                       | 116                            |
| 8/24/2024 | 4:30:00 | 7.2          | 1.15821                    | 67.2          | 2,018           | Open                | Closed                 | 17.5                       | 116                            |
| 8/24/2024 | 4:45:00 | 7.2          | 1.15064                    | 95.1          | 2,018           | Open                | Closed                 | 17.2                       | 116                            |
| 8/24/2024 | 5:00:00 | 7.1          | 1.434515                   | 163.4         | 2,018           | Open                | Closed                 | 17.6                       | 247                            |
| 8/24/2024 | 5:15:00 | 7.1          | 1.419375                   | 174.4         | 2,018           | Open                | Closed                 | 17.8                       | 246                            |
| 8/24/2024 | 5:30:00 | 7.2          | 1.40045                    | 274.4         | 2,018           | Open                | Closed                 | 17.8                       | 248                            |
| 8/24/2024 | 5:45:00 | 7.2          | 1.50643                    | 411.5         | 2,018           | Open                | Closed                 | 17.8                       | 252                            |
| 8/24/2024 | 6:00:00 | 7.2          | 1.479935                   | 411.7         | 2,018           | Open                | Closed                 | 17.9                       | 255                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/24/2024 | 6:15:00 | 7.3          | 1.464795                   | 178.1         | 2,018           | Open                | Closed                 | 17.7                       | 258                            |
| 8/24/2024 | 6:30:00 | 7.1          | 1.154425                   | 128.3         | 2,018           | Open                | Closed                 | 17.7                       | 261                            |
| 8/24/2024 | 6:45:00 | 7.1          | 1.146855                   | 166.4         | 2,018           | Open                | Closed                 | 17.5                       | 265                            |
| 8/24/2024 | 7:00:00 | 7.2          | 1.510215                   | 132.8         | 2,018           | Open                | Closed                 | 17.4                       | 266                            |
| 8/24/2024 | 7:15:00 | 7.2          | 1.275545                   | 95.2          | 2,018           | Open                | Closed                 | 17.9                       | 268                            |
| 8/24/2024 | 7:30:00 | 7.2          | 0.230885                   | 103           | 2,018           | Open                | Closed                 | 17.4                       | 267                            |
| 8/24/2024 | 7:45:00 | 7.2          | 0                          | 71.6          | 2,018           | Open                | Closed                 | 17.7                       | 266                            |
| 8/24/2024 | 8:00:00 | 7.2          | 0                          | 88.8          | 2,018           | Open                | Closed                 | 17.9                       | 268                            |
| 8/24/2024 | 8:15:00 | 7.1          | 1.820585                   | 408.1         | 2,018           | Open                | Closed                 | 17.6                       | 268                            |
| 8/24/2024 | 8:30:00 | 7.4          | 1.27176                    | 18.4          | 2,018           | Open                | Closed                 | 17.3                       | 265                            |
| 8/24/2024 | 8:45:00 | 7.7          | 0.21953                    | 63.9          | 2,018           | Open                | Closed                 | 17.4                       | 264                            |
| 8/24/2024 | 9:00:00 | 7.7          | 1.00681                    | 78.1          | 2,018           | Open                | Closed                 | 17.3                       | 260                            |
| 8/24/2024 | 9:15:00 | 7.4          | 0.707795                   | 129.1         | 2,018           | Open                | Closed                 | 17                         | 263                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/24/2024 | 9:30:00  | 7.7          | 0                          | 36.8          | 2,018           | Open                | Closed                 | 17.8                       | 262                            |
| 8/24/2024 | 9:45:00  | 7.5          | 0.957605                   | 15.8          | 2,018           | Open                | Closed                 | 17.6                       | 263                            |
| 8/24/2024 | 10:00:00 | 7.5          | 0.74943                    | 4.3           | 2,024           | Closed              | Open                   | 17.9                       | 262                            |
| 8/24/2024 | 10:15:00 | 7.5          | 0.74186                    | 3             | 2,035           | Closed              | Open                   | 17.8                       | 262                            |
| 8/24/2024 | 10:30:00 | 7.7          | 0.87812                    | 62.1          | 2,042           | Open                | Closed                 | 17.6                       | 262                            |
| 8/24/2024 | 10:45:00 | 7.8          | 0                          | 26.9          | 2,042           | Open                | Closed                 | 17.5                       | 260                            |
| 8/24/2024 | 11:00:00 | 7.8          | 0.760785                   | 151           | 2,042           | Open                | Closed                 | 17.1                       | 262                            |
| 8/24/2024 | 11:15:00 | 7.3          | 0.92354                    | 30            | 2,042           | Open                | Closed                 | 18.4                       | 268                            |
| 8/24/2024 | 11:30:00 | 7.1          | 0                          | 49.3          | 2,042           | Open                | Closed                 | 18                         | 271                            |
| 8/24/2024 | 11:45:00 | 7.2          | 0.87812                    | 122.5         | 2,042           | Open                | Closed                 | 18                         | 275                            |
| 8/24/2024 | 12:00:00 | 7.4          | 0                          | 69.4          | 2,042           | Open                | Closed                 | 17.8                       | 272                            |
| 8/24/2024 | 12:15:00 | 7            | 0.92354                    | 53.9          | 2,042           | Open                | Closed                 | 17.8                       | 275                            |
| 8/24/2024 | 12:30:00 | 7.2          | 0                          | 52.3          | 2,042           | Open                | Closed                 | 17.3                       | 275                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/24/2024 | 12:45:00 | 7.2          | 0                          | 49.2          | 2,042           | Open                | Closed                 | 17.5                       | 275                            |
| 8/24/2024 | 13:00:00 | 7.4          | 0.87812                    | 411.8         | 2,042           | Open                | Closed                 | 17.2                       | 275                            |
| 8/24/2024 | 13:15:00 | 7.8          | 1.305825                   | 396.4         | 2,042           | Open                | Closed                 | 17.2                       | 273                            |
| 8/24/2024 | 13:30:00 | 8.3          | 0                          | 411.7         | 2,042           | Open                | Closed                 | 17.7                       | 275                            |
| 8/24/2024 | 13:45:00 | 8.3          | 0                          | 411.6         | 2,042           | Open                | Closed                 | 17.9                       | 278                            |
| 8/24/2024 | 14:00:00 | 8.3          | 0                          | 376.9         | 2,042           | Open                | Closed                 | 18.1                       | 280                            |
| 8/24/2024 | 14:15:00 | 8.3          | 0                          | 360           | 2,042           | Open                | Closed                 | 18.3                       | 280                            |
| 8/24/2024 | 14:30:00 | 8.3          | 0                          | 285.1         | 2,042           | Open                | Closed                 | 18.4                       | 279                            |
| 8/24/2024 | 14:45:00 | 8.3          | 0                          | 287.3         | 2,042           | Open                | Closed                 | 18.5                       | 279                            |
| 8/24/2024 | 15:00:00 | 8.2          | 0                          | 252.1         | 2,042           | Open                | Closed                 | 18.6                       | 283                            |
| 8/24/2024 | 15:15:00 | 8.1          | 0.99167                    | 411.6         | 2,042           | Open                | Closed                 | 17.7                       | 283                            |
| 8/24/2024 | 15:30:00 | 8            | 0.828915                   | 46            | 2,042           | Open                | Closed                 | 18                         | 285                            |
| 8/24/2024 | 15:45:00 | 8            | 0.88569                    | 37.5          | 2,042           | Open                | Closed                 | 18                         | 287                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/24/2024 | 16:00:00 | 8            | 0                          | 19.2          | 2,042           | Open                | Closed                 | 18.1                       | 287                            |
| 8/24/2024 | 16:15:00 | 8            | 0.8327                     | 28.3          | 2,042           | Open                | Closed                 | 18                         | 288                            |
| 8/24/2024 | 16:30:00 | 8            | 0                          | 19.9          | 2,042           | Open                | Closed                 | 17.7                       | 288                            |
| 8/24/2024 | 16:45:00 | 8            | 0                          | 19.5          | 2,042           | Open                | Closed                 | 18                         | 288                            |
| 8/24/2024 | 17:00:00 | 8            | 0                          | 17.5          | 2,042           | Open                | Closed                 | 18.1                       | 292                            |
| 8/24/2024 | 17:15:00 | 8            | 0.874335                   | 28.6          | 2,042           | Open                | Closed                 | 17.1                       | 295                            |
| 8/24/2024 | 17:30:00 | 8            | 0                          | 36.3          | 2,042           | Open                | Closed                 | 17.2                       | 295                            |
| 8/24/2024 | 17:45:00 | 8            | 0                          | 37.8          | 2,042           | Open                | Closed                 | 17.5                       | 297                            |
| 8/24/2024 | 18:00:00 | 8            | 0                          | 37.3          | 2,042           | Open                | Closed                 | 17.7                       | 297                            |
| 8/24/2024 | 18:15:00 | 8            | 0                          | 37.2          | 2,042           | Open                | Closed                 | 17.9                       | 296                            |
| 8/24/2024 | 18:30:00 | 8            | 0.88569                    | 71.2          | 2,042           | Open                | Closed                 | 17.4                       | 298                            |
| 8/24/2024 | 18:45:00 | 7.9          | 0.881905                   | 37.2          | 2,042           | Open                | Closed                 | 17                         | 301                            |
| 8/24/2024 | 19:00:00 | 7.8          | 0.69644                    | 203.1         | 2,042           | Open                | Closed                 | 17.1                       | 306                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/24/2024 | 19:15:00 | 7.1          | 1.20363                    | 218.2         | 2,042           | Open                | Closed                 | 17                         | 296                            |
| 8/24/2024 | 19:30:00 | 7            | 0.77971                    | 31.1          | 2,042           | Open                | Closed                 | 17.1                       | 296                            |
| 8/24/2024 | 19:45:00 | 7.2          | 0.72672                    | 28.8          | 2,043           | Closed              | Open                   | 17                         | 294                            |
| 8/24/2024 | 20:00:00 | 7.2          | 0.87055                    | 42.8          | 2,052           | Open                | Closed                 | 17                         | 292                            |
| 8/24/2024 | 20:15:00 | 6.9          | 0.783495                   | 116           | 2,052           | Open                | Closed                 | 16.8                       | 290                            |
| 8/24/2024 | 20:30:00 | 7.1          | 0.78728                    | 55.4          | 2,052           | Open                | Closed                 | 16.7                       | 290                            |
| 8/24/2024 | 20:45:00 | 7.2          | 0.80242                    | 36.8          | 2,052           | Open                | Closed                 | 16.7                       | 290                            |
| 8/24/2024 | 21:00:00 | 7            | 0.41635                    | 60.1          | 2,052           | Open                | Closed                 | 16.7                       | 289                            |
| 8/24/2024 | 21:15:00 | 7            | 0.41635                    | 43            | 2,052           | Open                | Closed                 | 16.7                       | 290                            |
| 8/24/2024 | 21:30:00 | 7.1          | 0.40121                    | 30.8          | 2,052           | Open                | Closed                 | 16.7                       | 289                            |
| 8/24/2024 | 21:45:00 | 7.2          | 0.40121                    | 24.2          | 2,052           | Open                | Closed                 | 16.6                       | 286                            |
| 8/24/2024 | 22:00:00 | 7.2          | 0.50719                    | 20.9          | 2,052           | Open                | Closed                 | 16.6                       | 283                            |
| 8/24/2024 | 22:15:00 | 7            | 1.49886                    | 239.4         | 2,052           | Open                | Closed                 | 16.3                       | 283                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/24/2024 | 22:30:00 | 7.2          | 1.025735                   | 57.8          | 2,052           | Open                | Closed                 | 16.5                       | 284                            |
| 8/24/2024 | 22:45:00 | 7.2          | 0.35579                    | 23.2          | 2,052           | Open                | Closed                 | 16.3                       | 284                            |
| 8/24/2024 | 23:00:00 | 7.3          | 0.77971                    | 32.5          | 2,052           | Open                | Closed                 | 16.3                       | 281                            |
| 8/24/2024 | 23:15:00 | 7            | 0.43149                    | 51.4          | 2,052           | Open                | Closed                 | 16.2                       | 281                            |
| 8/24/2024 | 23:30:00 | 7.1          | 0.42392                    | 38.3          | 2,052           | Open                | Closed                 | 16.2                       | 281                            |
| 8/24/2024 | 23:45:00 | 7.2          | 0.836485                   | 45.4          | 2,052           | Open                | Closed                 | 16.2                       | 281                            |
| 8/25/2024 | 0:00:00  | 7.3          | 0.813775                   | 103.1         | 2,052           | Open                | Closed                 | 16                         | 281                            |
| 8/25/2024 | 0:15:00  | 6.8          | 0.927325                   | 220.1         | 2,052           | Open                | Closed                 | 16                         | 281                            |
| 8/25/2024 | 0:30:00  | 7.2          | 0.51476                    | 411.9         | 2,052           | Open                | Closed                 | 16                         | 281                            |
| 8/25/2024 | 0:45:00  | 7.1          | 1.896285                   | 401           | 2,052           | Open                | Closed                 | 16                         | 281                            |
| 8/25/2024 | 1:00:00  | 7            | 1.903855                   | 411.9         | 2,052           | Open                | Closed                 | 16.1                       | 281                            |
| 8/25/2024 | 1:15:00  | 7.2          | 1.27176                    | 411.9         | 2,052           | Open                | Closed                 | 16.1                       | 281                            |
| 8/25/2024 | 1:30:00  | 7.2          | 1.063585                   | 412           | 2,052           | Open                | Closed                 | 16.1                       | 281                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/25/2024 | 1:45:00 | 7.8          | 1.252835                   | 91.6          | 2,054           | Open                | Closed                 | 16.3                       | 283                            |
| 8/25/2024 | 2:00:00 | 7.3          | 1.25662                    | 411.2         | 2,060           | Open                | Closed                 | 16.1                       | 281                            |
| 8/25/2024 | 2:15:00 | 7.3          | 0.798635                   | 411.7         | 2,060           | Open                | Closed                 | 16.2                       | 281                            |
| 8/25/2024 | 2:30:00 | 7.2          | 1.366385                   | 411.8         | 2,060           | Open                | Closed                 | 16.2                       | 283                            |
| 8/25/2024 | 2:45:00 | 7            | 1.77895                    | 338.2         | 2,060           | Open                | Closed                 | 16.2                       | 281                            |
| 8/25/2024 | 3:00:00 | 7.1          | 0.6813                     | 411.9         | 2,060           | Open                | Closed                 | 16.3                       | 281                            |
| 8/25/2024 | 3:15:00 | 7            | 1.146855                   | 411.9         | 2,060           | Open                | Closed                 | 16.3                       | 281                            |
| 8/25/2024 | 3:30:00 | 7.2          | 0.77214                    | 364.6         | 2,060           | Open                | Closed                 | 16.2                       | 283                            |
| 8/25/2024 | 3:45:00 | 7            | 0.8327                     | 412.1         | 2,060           | Open                | Closed                 | 16.2                       | 283                            |
| 8/25/2024 | 4:00:00 | 7.2          | 1.298255                   | 412           | 2,060           | Open                | Closed                 | 16.1                       | 283                            |
| 8/25/2024 | 4:15:00 | 7            | 0.866765                   | 412           | 2,060           | Open                | Closed                 | 16.1                       | 283                            |
| 8/25/2024 | 4:30:00 | 7.2          | 0.851625                   | 349.1         | 2,060           | Open                | Closed                 | 16.2                       | 283                            |
| 8/25/2024 | 4:45:00 | 6.9          | 0.844055                   | 390.2         | 2,060           | Open                | Closed                 | 16.2                       | 283                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time    | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|---------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/25/2024 | 5:00:00 | 7.1          | 0.73429                    | 305.1         | 2,060           | Open                | Closed                 | 16.1                       | 283                            |
| 8/25/2024 | 5:15:00 | 7.2          | 0.836485                   | 290.8         | 2,060           | Open                | Closed                 | 16.1                       | 282                            |
| 8/25/2024 | 5:30:00 | 7.2          | 0.84027                    | 286.9         | 2,060           | Open                | Closed                 | 16                         | 281                            |
| 8/25/2024 | 5:45:00 | 7.2          | 0.85541                    | 291.7         | 2,060           | Open                | Closed                 | 15.9                       | 281                            |
| 8/25/2024 | 6:00:00 | 7.2          | 0.753215                   | 298           | 2,060           | Open                | Closed                 | 15.9                       | 281                            |
| 8/25/2024 | 6:15:00 | 7.2          | 0.859195                   | 411.9         | 2,060           | Open                | Closed                 | 15.9                       | 282                            |
| 8/25/2024 | 6:30:00 | 7.2          | 0.844055                   | 383.3         | 2,060           | Open                | Closed                 | 15.9                       | 283                            |
| 8/25/2024 | 6:45:00 | 7.1          | 0.836485                   | 398.3         | 2,060           | Open                | Closed                 | 15.8                       | 282                            |
| 8/25/2024 | 7:00:00 | 7.1          | 0.3028                     | 412           | 2,060           | Open                | Closed                 | 15.8                       | 283                            |
| 8/25/2024 | 7:15:00 | 7.2          | 1.434515                   | 412.1         | 2,060           | Open                | Closed                 | 15.7                       | 282                            |
| 8/25/2024 | 7:30:00 | 7.2          | 1.464795                   | 406.9         | 2,060           | Open                | Closed                 | 15.7                       | 283                            |
| 8/25/2024 | 7:45:00 | 7.2          | 1.426945                   | 408.8         | 2,060           | Open                | Closed                 | 15.7                       | 283                            |
| 8/25/2024 | 8:00:00 | 7.2          | 1.426945                   | 388.1         | 2,060           | Open                | Closed                 | 15.8                       | 283                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/25/2024 | 8:15:00  | 7.2          | 1.373955                   | 370.3         | 2,060           | Open                | Closed                 | 15.7                       | 283                            |
| 8/25/2024 | 8:30:00  | 7            | 1.260405                   | 363.5         | 2,060           | Open                | Closed                 | 15.7                       | 281                            |
| 8/25/2024 | 8:45:00  | 7.2          | 0.84027                    | 196.7         | 2,060           | Open                | Closed                 | 16.1                       | 286                            |
| 8/25/2024 | 9:00:00  | 7.2          | 1.116575                   | 200           | 2,060           | Open                | Closed                 | 15.8                       | 284                            |
| 8/25/2024 | 9:15:00  | 7.2          | 0.94625                    | 177.4         | 2,060           | Open                | Closed                 | 15.8                       | 283                            |
| 8/25/2024 | 9:30:00  | 7.2          | 0.72672                    | 187.2         | 2,060           | Open                | Closed                 | 15.8                       | 283                            |
| 8/25/2024 | 9:45:00  | 7.2          | 0.96139                    | 147.5         | 2,060           | Open                | Closed                 | 15.8                       | 283                            |
| 8/25/2024 | 10:00:00 | 7.2          | 0.95382                    | 137.9         | 2,060           | Open                | Closed                 | 15.8                       | 283                            |
| 8/25/2024 | 10:15:00 | 7.2          | 1.02952                    | 144.7         | 2,060           | Open                | Closed                 | 15.9                       | 284                            |
| 8/25/2024 | 10:30:00 | 7            | 1.03709                    | 177.2         | 2,060           | Open                | Closed                 | 16                         | 287                            |
| 8/25/2024 | 10:45:00 | 7.2          | 0.757                      | 166.7         | 2,060           | Open                | Closed                 | 16.2                       | 286                            |
| 8/25/2024 | 11:00:00 | 7.1          | 0                          | 407.8         | 2,060           | Open                | Closed                 | 16.3                       | 285                            |
| 8/25/2024 | 11:15:00 | 7.2          | 1.00681                    | 345.6         | 2,060           | Open                | Closed                 | 16.3                       | 284                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/25/2024 | 11:30:00 | 7            | 0.81756                    | 273.7         | 2,060           | Open                | Closed                 | 16.4                       | 284                            |
| 8/25/2024 | 11:45:00 | 7.3          | 1.12036                    | 202.2         | 2,060           | Open                | Closed                 | 16.4                       | 284                            |
| 8/25/2024 | 12:00:00 | 7.1          | 0.56018                    | 205.7         | 2,060           | Open                | Closed                 | 16.5                       | 285                            |
| 8/25/2024 | 12:15:00 | 7.2          | 0.91597                    | 165.6         | 2,060           | Open                | Closed                 | 16.6                       | 285                            |
| 8/25/2024 | 12:30:00 | 7            | 1.124145                   | 280.2         | 2,060           | Open                | Closed                 | 16.7                       | 285                            |
| 8/25/2024 | 12:45:00 | 7.2          | 0.851625                   | 220.9         | 2,060           | Open                | Closed                 | 16.8                       | 283                            |
| 8/25/2024 | 13:00:00 | 7.2          | 1.07494                    | 151.8         | 2,060           | Open                | Closed                 | 16.8                       | 283                            |
| 8/25/2024 | 13:15:00 | 7.2          | 1.08251                    | 220.4         | 2,060           | Open                | Closed                 | 16.8                       | 283                            |
| 8/25/2024 | 13:30:00 | 7            | 0.77214                    | 252.6         | 2,060           | Open                | Closed                 | 16.8                       | 282                            |
| 8/25/2024 | 13:45:00 | 7.3          | 0.972745                   | 152.6         | 2,060           | Open                | Closed                 | 16.8                       | 282                            |
| 8/25/2024 | 14:00:00 | 7.1          | 0.722935                   | 192.5         | 2,060           | Open                | Closed                 | 16.8                       | 282                            |
| 8/25/2024 | 14:15:00 | 7.1          | 0.813775                   | 162           | 2,060           | Open                | Closed                 | 16.9                       | 282                            |
| 8/25/2024 | 14:30:00 | 7.1          | 0.647235                   | 134           | 2,060           | Open                | Closed                 | 16.9                       | 282                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
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| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/25/2024 | 14:45:00 | 7            | 1.040875                   | 165.1         | 2,060           | Open                | Closed                 | 16.9                       | 282                            |
| 8/25/2024 | 15:00:00 | 7.2          | 0.745645                   | 162           | 2,060           | Open                | Closed                 | 16.9                       | 282                            |
| 8/25/2024 | 15:15:00 | 7.1          | 0.84027                    | 163.4         | 2,060           | Open                | Closed                 | 17                         | 279                            |
| 8/25/2024 | 15:30:00 | 7.1          | 0.87055                    | 83.7          | 2,060           | Open                | Closed                 | 17.1                       | 278                            |
| 8/25/2024 | 15:45:00 | 7.1          | 0.86298                    | 87.2          | 2,060           | Open                | Closed                 | 17.2                       | 278                            |
| 8/25/2024 | 16:00:00 | 7            | 0.859195                   | 95.2          | 2,060           | Open                | Closed                 | 17.3                       | 278                            |
| 8/25/2024 | 16:15:00 | 7.2          | 0.80999                    | 47.9          | 2,060           | Open                | Closed                 | 17.5                       | 276                            |
| 8/25/2024 | 16:30:00 | 7            | 0.874335                   | 74.2          | 2,060           | Open                | Closed                 | 17.5                       | 277                            |
| 8/25/2024 | 16:45:00 | 7.2          | 0.61317                    | 197.3         | 2,060           | Open                | Closed                 | 17.6                       | 280                            |
| 8/25/2024 | 17:00:00 | 7.1          | 0.85541                    | 264.5         | 2,060           | Open                | Closed                 | 17.9                       | 278                            |
| 8/25/2024 | 17:15:00 | 7.2          | 0.851625                   | 202.2         | 2,060           | Open                | Closed                 | 17.9                       | 277                            |
| 8/25/2024 | 17:30:00 | 7            | 0.59803                    | 330.1         | 2,060           | Open                | Closed                 | 18                         | 277                            |
| 8/25/2024 | 17:45:00 | 7.1          | 0.84784                    | 248.2         | 2,060           | Open                | Closed                 | 18                         | 277                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/25/2024 | 18:00:00 | 7.2          | 0.86298                    | 221.2         | 2,060           | Open                | Closed                 | 18                         | 278                            |
| 8/25/2024 | 18:15:00 | 7.2          | 0.6056                     | 247.4         | 2,060           | Open                | Closed                 | 18                         | 278                            |
| 8/25/2024 | 18:30:00 | 7.1          | 0.84784                    | 208.1         | 2,060           | Open                | Closed                 | 17.9                       | 279                            |
| 8/25/2024 | 18:45:00 | 7.2          | 0.59046                    | 204.4         | 2,060           | Open                | Closed                 | 17.9                       | 278                            |
| 8/25/2024 | 19:00:00 | 7.2          | 0.85541                    | 153.4         | 2,060           | Open                | Closed                 | 17.9                       | 279                            |
| 8/25/2024 | 19:15:00 | 6.9          | 0.980315                   | 225.8         | 2,060           | Open                | Closed                 | 17.9                       | 279                            |
| 8/25/2024 | 19:30:00 | 7.2          | 0.950035                   | 212.2         | 2,060           | Open                | Closed                 | 17.9                       | 278                            |
| 8/25/2024 | 19:45:00 | 7            | 1.124145                   | 208.1         | 2,060           | Open                | Closed                 | 17.8                       | 279                            |
| 8/25/2024 | 20:00:00 | 7.2          | 0.450415                   | 168.8         | 2,060           | Open                | Closed                 | 17.7                       | 278                            |
| 8/25/2024 | 20:15:00 | 7.2          | 0                          | 111.4         | 2,060           | Open                | Closed                 | 17.9                       | 282                            |
| 8/25/2024 | 20:30:00 | 7.2          | 0.46177                    | 214.5         | 2,060           | Open                | Closed                 | 17.9                       | 280                            |
| 8/25/2024 | 20:45:00 | 7.2          | 0.99924                    | 142.8         | 2,060           | Open                | Closed                 | 17.7                       | 280                            |
| 8/25/2024 | 21:00:00 | 7            | 0                          | 96.9          | 2,060           | Open                | Closed                 | 17.5                       | 282                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time     | Discharge pH | Discharge Flow Rate (m3/m) | Discharge NTU | Flow Total (m3) | Recirc Valve Status | Discharge Valve Status | Discharge Temperature (°C) | Discharge Conductivity (µS/cm) |
|-----------|----------|--------------|----------------------------|---------------|-----------------|---------------------|------------------------|----------------------------|--------------------------------|
| 8/25/2024 | 21:15:00 | 7            | 0.9841                     | 218           | 2,060           | Open                | Closed                 | 17.6                       | 281                            |
| 8/25/2024 | 21:30:00 | 7.1          | 0                          | 137.3         | 2,060           | Open                | Closed                 | 17.5                       | 282                            |
| 8/25/2024 | 21:45:00 | 7.2          | 0                          | 101.1         | 2,060           | Open                | Closed                 | 17.3                       | 281                            |
| 8/25/2024 | 22:00:00 | 7.2          | 0.21953                    | 119.4         | 2,060           | Open                | Closed                 | 17.2                       | 281                            |
| 8/25/2024 | 22:15:00 | 7.1          | 0.99924                    | 82.2          | 2,060           | Open                | Closed                 | 17                         | 281                            |
| 8/25/2024 | 22:30:00 | 7.1          | 0.215745                   | 116.4         | 2,060           | Open                | Closed                 | 16.9                       | 281                            |
| 8/25/2024 | 22:45:00 | 7.2          | 0                          | 62.5          | 2,060           | Open                | Closed                 | 16.9                       | 281                            |
| 8/25/2024 | 23:00:00 | 7.3          | 0                          | 44            | 2,060           | Open                | Closed                 | 16.9                       | 279                            |
| 8/25/2024 | 23:15:00 | 7.2          | 0                          | 315.8         | 2,060           | Open                | Closed                 | 16.9                       | 279                            |
| 8/25/2024 | 23:30:00 | 6.8          | 0                          | 169.3         | 2,060           | Open                | Closed                 | 16.9                       | 278                            |
| 8/25/2024 | 23:45:00 | 6.9          | 0                          | 408           | 2,060           | Open                | Closed                 | 17                         | 281                            |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

## Appendix B: YSI Data Log



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time       | Down Stream Temperature (°C) |
|-----------|------------|------------------------------|
| 8/19/2024 | 00:01:21AM | 16.4                         |
| 8/19/2024 | 00:16:21AM | 16.4                         |
| 8/19/2024 | 00:31:21AM | 16.4                         |
| 8/19/2024 | 00:46:21AM | 16.3                         |
| 8/19/2024 | 01:01:21AM | 16.3                         |
| 8/19/2024 | 01:16:21AM | 16.3                         |
| 8/19/2024 | 01:31:21AM | 16.3                         |
| 8/19/2024 | 01:46:21AM | 16.2                         |
| 8/19/2024 | 02:01:21AM | 16.2                         |
| 8/19/2024 | 02:16:21AM | 16.2                         |
| 8/19/2024 | 02:31:21AM | 16.2                         |
| 8/19/2024 | 02:46:21AM | 16.1                         |
| 8/19/2024 | 03:01:21AM | 16.1                         |
| 8/19/2024 | 03:16:20AM | 16.1                         |
| 8/19/2024 | 03:31:20AM | 16.2                         |
| 8/19/2024 | 03:46:20AM | 16.5                         |
| 8/19/2024 | 04:01:20AM | 16.6                         |
| 8/19/2024 | 04:16:20AM | 16.7                         |
| 8/20/2024 | 08:32:17PM | 16.4                         |
| 8/20/2024 | 08:47:17PM | 16.2                         |

| Date      | Time       | Down Stream Temperature (°C) |
|-----------|------------|------------------------------|
| 8/20/2024 | 09:02:17PM | 16.2                         |
| 8/20/2024 | 09:17:17PM | 16.1                         |
| 8/20/2024 | 09:32:17PM | 16.1                         |
| 8/20/2024 | 09:47:17PM | 16.1                         |
| 8/20/2024 | 10:02:17PM | 16                           |
| 8/20/2024 | 10:17:17PM | 16                           |
| 8/20/2024 | 10:32:17PM | 16                           |
| 8/20/2024 | 10:47:17PM | 16                           |
| 8/20/2024 | 11:02:17PM | 16                           |
| 8/20/2024 | 11:17:16PM | 16                           |
| 8/20/2024 | 11:32:16PM | 16                           |
| 8/20/2024 | 11:47:16PM | 15.9                         |
| 8/21/2024 | 00:02:16AM | 16.1                         |
| 8/21/2024 | 00:17:16AM | 16.2                         |
| 8/21/2024 | 00:32:16AM | 16.4                         |
| 8/21/2024 | 00:47:16AM | 16.5                         |
| 8/21/2024 | 01:02:16AM | 16.6                         |
| 8/21/2024 | 01:17:16AM | 16.7                         |
| 8/21/2024 | 01:32:16AM | 16.7                         |
| 8/21/2024 | 01:47:16AM | 16.5                         |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time       | Down Stream Temperature (°C) |
|-----------|------------|------------------------------|
| 8/21/2024 | 02:02:16AM | 16.7                         |
| 8/21/2024 | 02:17:16AM | 16.9                         |
| 8/21/2024 | 02:32:16AM | 16.9                         |
| 8/21/2024 | 02:47:16AM | 16.8                         |
| 8/21/2024 | 12:37:26PM | 21.1                         |
| 8/21/2024 | 01:00:25PM | 16                           |
| 8/21/2024 | 01:15:25PM | 16                           |
| 8/21/2024 | 01:21:33PM | 16                           |
| 8/21/2024 | 01:36:33PM | 16                           |
| 8/21/2024 | 01:44:58PM | 15.6                         |
| 8/21/2024 | 01:59:58PM | 16.2                         |
| 8/21/2024 | 08:53:40PM | 16.1                         |
| 8/21/2024 | 09:08:40PM | 15.8                         |
| 8/21/2024 | 09:23:40PM | 15.8                         |
| 8/21/2024 | 09:38:40PM | 15.8                         |
| 8/21/2024 | 09:53:40PM | 15.7                         |
| 8/21/2024 | 10:08:40PM | 15.7                         |
| 8/21/2024 | 10:23:40PM | 15.7                         |
| 8/21/2024 | 10:38:40PM | 15.7                         |
| 8/21/2024 | 10:53:39PM | 15.6                         |
| 8/21/2024 | 11:08:39PM | 15.6                         |

| Date      | Time       | Down Stream Temperature (°C) |
|-----------|------------|------------------------------|
| 8/21/2024 | 11:23:39PM | 15.6                         |
| 8/21/2024 | 11:38:39PM | 15.6                         |
| 8/21/2024 | 11:53:39PM | 15.6                         |
| 8/22/2024 | 00:08:39AM | 15.6                         |
| 8/22/2024 | 00:23:39AM | 15.6                         |
| 8/22/2024 | 00:38:39AM | 15.5                         |
| 8/22/2024 | 00:53:39AM | 15.5                         |
| 8/22/2024 | 01:08:39AM | 15.5                         |
| 8/22/2024 | 01:23:39AM | 15.5                         |
| 8/22/2024 | 01:38:39AM | 15.5                         |
| 8/22/2024 | 01:53:39AM | 15.5                         |
| 8/22/2024 | 02:08:39AM | 15.5                         |
| 8/22/2024 | 02:23:38AM | 15.5                         |
| 8/22/2024 | 02:38:38AM | 15.5                         |
| 8/22/2024 | 02:53:38AM | 15.5                         |
| 8/22/2024 | 03:08:38AM | 15.5                         |
| 8/22/2024 | 03:23:38AM | 15.5                         |
| 8/22/2024 | 03:38:38AM | 15.5                         |
| 8/22/2024 | 03:53:38AM | 15.5                         |
| 8/22/2024 | 04:08:38AM | 15.5                         |
| 8/22/2024 | 04:23:38AM | 15.5                         |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

| Date      | Time       | Down Stream Temperature (°C) |
|-----------|------------|------------------------------|
| 8/22/2024 | 11:35:38AM | 16.1                         |
| 8/22/2024 | 11:50:38AM | 15.9                         |
| 8/22/2024 | 12:05:38PM | 15.9                         |

| Date      | Time       | Down Stream Temperature (°C) |
|-----------|------------|------------------------------|
| 8/22/2024 | 12:20:38PM | 15.7                         |
| 8/22/2024 | 12:35:38PM | 16.3                         |
| 8/22/2024 | 12:50:38PM | 16.6                         |



## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

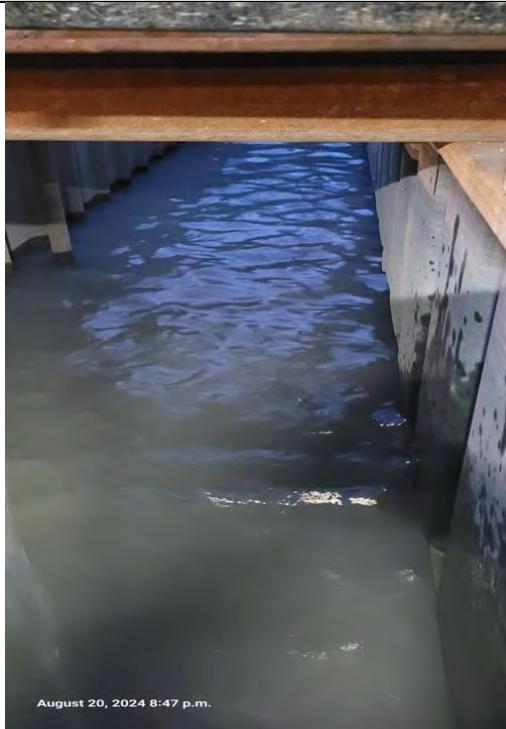
## Appendix C: Photos

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

**Photo 1: No visible sheen observed in the WTP water, August 19<sup>th</sup>**



**Photo 2: No visible sheen observed in the WTP tank, August 20<sup>th</sup>**





**FRONTIER-KEMPER**  
**MICHELS**® joint venture

## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

**Photo 3: No visible sheen observed in the WTP tank, August 21<sup>st</sup>**



**Photo 4: No visible sheen observed in the WTP tank, August 22<sup>nd</sup>**





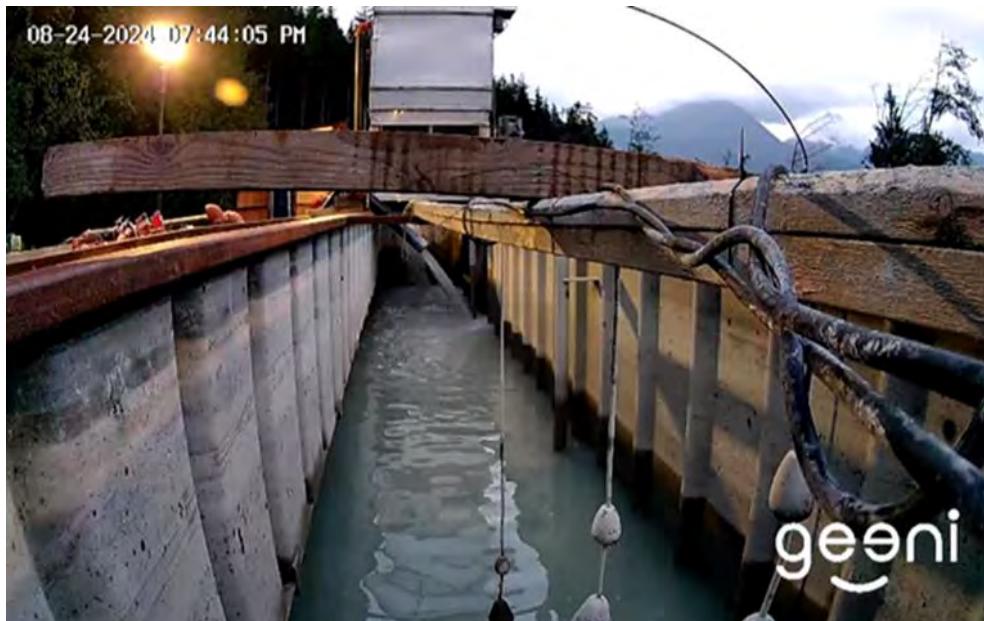
## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

Photo 5: No visible sheen observed in the WTP tank, August 23<sup>rd</sup>



Photo 6: No visible sheen observed in the WTP tank, August 24<sup>th</sup>





## Eagle Mountain- Woodfibre Gas Pipeline Project- Tunnel Scope

|                 |  |                                       |                                      |
|-----------------|--|---------------------------------------|--------------------------------------|
| Title           | WoodFibre Weekly Water Discharge Report            | Revision:                             | 0                                    |
| Data Date Range | August 19 <sup>th</sup> to August 25 <sup>th</sup> | Prepared by:<br>Approved by:<br>Date: | SD<br>BC2<br>August 29 <sup>th</sup> |

Photo 7: No visible sheen observed in the WTP tank, August 25<sup>th</sup>



|   |  |   |
|---|--|---|
|  <b>FORTIS BC™</b> | <b>Eagle Mountain - Woodfibre Gas Pipeline Project</b> | <b>Aug. 19<sup>th</sup> to Aug. 25<sup>th</sup>, 2024</b> |
|   | <b>Report #</b>  | <b>22</b>   |
|   | <b>Appendix D</b>                                      | <b>D-1</b>  |

## Appendix D: Woodfibre Site Receiving Environment Documentation

|   |  |                |   |
|---|--|----------------|---|
|  <b>FORTIS BC™</b> | <b>Eagle Mountain - Woodfibre Gas Pipeline Project<br/>Waste Discharge Permit PE-110163 Report</b> | Reporting Week | Aug. 19 <sup>th</sup> to Aug. 25 <sup>th</sup> , 2024 |
|   | Report #   | 22             |   |
|   | Appendix D   | D-2            |   |

## Woodfibre Site Receiving Environment Sample Analysis

| TRITON  |                | Sample ID  | Reviewed and signed off by:   | Seal   | Permit Status  | WING USI (Upstream)                                 | WING DS 1 (Downstream)                              | Sample or value notes  | BOWO FAL - Short Term   | BOWO FAL - Long Term  | BOWO MLL - Short Term   | BOWO MLL - Long Term  |   |
|---|----------------|--|---|--|--|---|---|--|---|---|---|---|---|
|   | LAD ID         | Date Sampled   | Time Sampled  |  |  | WADC1105-001<br>20-Aug-2024                         | WADC1105-002<br>20-Aug-2024                         |  |   |   |   |   |   |
| Analyte                                       | Units          | FAL-ST <sup>1,2</sup>  | FAL-LT <sup>1,2</sup>   | MLL-ST <sup>1</sup>  | MLL-LT <sup>1</sup>                                      | Values  | WING USI (Upstream)                                 | WING DS 1 (Downstream)   |   |   |   |   |   |
| In-Situ Parameters                            |                |  |   |  |  |   |   |  |   |   |   |   |   |
| pH (feld)                                     | ppm            | 6.5±0.0  | 6.5±0.0   | 7.0±0.7  | 7.0±0.7  | 7.73  | 7.32  |  | If natural pH < 6.5, no statistically significant decrease from background is allowed. No statistically significant increase from background is allowed. No statistically significant decrease from background is allowed. Refer to BC Water Quality Guidelines for more information. | Unrestricted change within this range (no protection of aquatic life development).  |   |   |   |
| Temperature (feld)                            | °C             |  |   | Short-term daily temperature guideline is 19°C for streams with no fish habitat.<br>Max <-1 from BNG 1°C. <sup>1</sup> |  |   | 16  | 16.2   | Guideline is species-dependent. Short-term daily temperature guideline is 19°C for streams with no fish habitat. Refer to Table 4 for background temperature range for Eel Creek. Refer to BC Water Quality Guidelines for more information.  | Guideline for marine waters are based on natural ambient conditions and are not intended to protect against adverse effects from industrial, municipal, or other sources. Marine waters include the coastal waters, marine lakes, and the cycle of rivers connecting the coastal waters to the ocean. Marine waters are used to support healthy human activities. Max rate of any human-related change is 1°C per day. If the rate of change is greater than 1°C per day, all unknown fish distributed. Refer to Table 4 for background temperature range for Eel Creek. Refer to BC Water Quality Guidelines for more information. |   |   |   |
| Turbidity (feld)                              | NTU            |  |   | Varies with background, see note<br>Guideline = 4.5  |  | Varies with background, see note<br>Guideline = 3.8 | Varies with background, see note<br>Guideline = 9.5 | 1.49   | 0.92  | Change from background of 8 NTU at any one time for a duration of 24 h in all waters during clear flow or in clear waters.  | Change from background of 8 NTU at any one time for a duration of 24 h in all waters during high flow or in turbid waters.      | Change from background of 2 NTU at any one time for a duration of 24 h in all waters during clear flow or in clear waters.      | Change from background of 2 NTU at any one time for a duration of 24 h in clear flow. |
| Dissolved Oxygen (feld)                       | mg/L           | Varies with life stage, see note                                       | Varies with life stage, see note  | Varies with life stage, see note   | Varies with life stage, see note                         | 8.70  |   |  | Bursted enteropelagic minimum 8 mg/L, all other life stages 8 mg/L. Refer to BC Water Quality Guidelines for more information.  | Bursted enteropelagic minimum 8 mg/L, all other life stages 8 mg/L. Refer to BC Water Quality Guidelines for more information.  | Bursted enteropelagic minimum 11 mg/L, all other life stages 8 mg/L. Refer to BC Water Quality Guidelines for more information. | Bursted enteropelagic minimum 11 mg/L, all other life stages 8 mg/L. Refer to BC Water Quality Guidelines for more information. |   |
| General Parameters                            |                |  |   |  |  |   |   |  |   |   |   |   |   |
| Total Nitrogen (as CaCO <sub>3</sub> ) (feld) | mg/L           | -  | -   | -  | -  | 3.08  | 38.7  |  |   |   |   |   |   |
| Total Phosphorus (feld)                       | mg/L           | -  | -   | -  | -  | 0.02  | 0.02  |  |   |   |   |   |   |
| Total Suspended Solids                        | mg/L           | Varies with background, see note<br>Guideline = 28                     | Varies with background, see note<br>Guideline = 8.34                    | Varies with background, see note<br>Guideline = 3.44   | Varies with background, see note<br>Guideline = 28       | >3.0  | >3.0  |  | Change from background of 25 mg/L at any one time for a duration of 24 h in all waters during clear flow or in clear waters.  | Change from background of 5 mg/L at any one time for a duration of 24 h in all waters during clear flow or in clear waters.   | Change from background of 2 NTU at any one time for a duration of 24 h in all waters during high flow or in turbid waters.      | Change from background of 2 NTU at any one time for a duration of 24 h in clear flow.   |   |
| Dissolved Organic Carbon (DOC)                | mg/L           | -  | -   | -  | -  | 2.36  | 1.23  |  |   |   |   |   |   |
| Total Alkalinity (CaCO <sub>3</sub> )         | mg/L           | -  | Categorical   | -  | -  | 10.5  | 41.4  | The eelgrass location has high sensitivity to acid inputs (i.e. a high buffering capacity). Maximum change must be sensitive to acid inputs. | Guideline is for alkalinity (CaCO <sub>3</sub> ) and the consistency of a water body to acid inputs. (i.e. 1 mg/L is considered low sensitivity, 10 mg/L is moderate sensitivity, and 20 mg/L is considered very sensitive to acid inputs. 20 mg/L is considered too sensitive).      |   |   |   |   |
| Total Sulphur (as H <sub>2</sub> S)           | mg/L           | -  | -   | 0.002  | -  | -   | = 0.0015  | = 0.0015   |   |   |   |   |   |
| Total Sulphur (as H <sub>2</sub> S)           | mg/L           | -  | -   | -  | -  | -   | = 0.0016  | = 0.0016   | Working guideline   |   |   |   |   |
| Ammonia                                       | mg/L ammonia-N | Varies with pH and temperature. See note<br>Guideline = 0.50           | Varies with pH and temperature. See note<br>Guideline = 0.50            | Varies with pH and temperature. See note<br>Guideline = 1.00   | Varies with pH, temperature. See note<br>Guideline = 1.0 | >0.050  | >0.050  |  | Guideline for ammonia as N and pH and temperature dependent. Refer to Table 4 for background temperature.   | Guideline for ammonia as N and pH and temperature dependent. Refer to Table 4 for background temperature.   | Guideline for ammonia as N. Guideline is pH, temperature and salinity dependent. Refer to Table 4 for background temperature.   | Guideline for ammonia as N. Guideline is pH, temperature and salinity dependent. Refer to Table 4 for background temperature.   |   |
| Brinell                                       | mg/L           | -  | -   | -  | -  | -   | -   | -  |   |   |   |   |   |
| Chloride                                      | mg/L           | 600  | 150   | = 110% of background   | > 90% of background                                      | 0.74  | 1.02  |  |   |   |   |   |   |
| Radium  | mg/L           | Varies with hardness. See note<br>Guideline = 0.017                    | -   | 1.5  | -  | 0.023   | 0.026   |  | Guideline for hardness.   | Guideline is calculated using the following equation: Guideline = [-4.317 + 0.00011 * Hardness] / 1000.   |   |   |   |
| Sulfate (as SO <sub>4</sub> )                 | mg/L           | Varies with hardness. See note<br>Guideline = 0.050                    | Varies with hardness. See note<br>Guideline = 0.050                     | 276, see note  | -  | -   | = 0.0101  | = 0.0101   |   |   |   |   |   |
| Hardwater                                     | mg/L           | -  | -   | -  | -  | 0.054   | 0.304   |  | Varies with chloride. Refer to Table 27B in BC WQG for guideline notes.   | Varies with chloride. Refer to Table 27B in BC WQG for guideline notes.   |   |   |   |
| Total Phosphorus                              | mg/L           | -  | 0.0015 to 0.015   | -  | -  | 0.0098  | 0.0091  |  |   |   |   |   |   |
| Sulfate (as SO <sub>4</sub> )                 | mg/L           | Varies with hardness. See note<br>Guideline = 1.28                     | -   | -  | -  | 2.55  | 4.71  |  |   |   |   |   |   |
| Total Hardness                                | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Aluminum (Al-Total)                           | mg/L           |  |   | Varies with pH, DOC, hardness and salinity. See note<br>Guideline = 0.125  |  |   | 0.058   | 0.052  |   | Guideline varies with pH, hardness and Dissolved Organic Carbon (DOC). Guideline is calculated using the following equation: Guideline = [0.019 * Hardness] + [0.0001 * DOC] + [0.00001 * TDS]. Hardness is the hardness range, the minimum hardness or DOC will be applied in the calculation.   |   |   |   |
| Magnesium (Mg-Total)                          | mg/L           | -  | -   | -  | -  | 0.0025  | 0.0025  |  |   |   |   |   |   |
| Calcium (Ca-Total)                            | mg/L           | -  | -   | -  | -  | 0.0024  | 0.0024  |  |   |   |   |   |   |
| Manganese (Mn-Total)                          | mg/L           | Varies with hardness. See note<br>Guideline = 0.7616                   | Varies with hardness. See note<br>Guideline = 0.7616                    | -  | -  | 0.0043  | 0.0007  |  | Guideline varies with hardness. The guideline is calculated using the following equation: Guideline = 0.0001 * Hardness.  | Guideline applies to samples with hardness 25-250 mg/L. Lowest value for guideline is 0.0001 mg/L. Highest value for guideline is 0.0007 mg/L. The minimum hardness will be applied in the calculation.   |   |   |   |
| Mercury (Hg-Total)                            | mg/L           | -  | Varies with methyl mercury. See note<br>Guideline = 0.001               | -  | -  | -   | = 0.000005  | = 0.000005   |   | Guideline only applies to lakes with reduced species having the greatest bioaccumulation. Guideline is reference point and does not apply to sites.   |   |   |   |
| Nickel (Ni-Total)                             | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  | Guideline varies with hardness. Refer to BC Water Quality Guidelines for more information.  | Guideline varies with hardness. Refer to BC Water Quality Guidelines for more information.  |   |   |   |
| Phosphate (P-Tot)                             | mg/L           | 0.002 to 0.015   | -   | -  | -  | 0.0008  | 0.0008  |  |   |   |   |   |   |
| Potassium (K-Tot)                             | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Strontium (Sr-Tot)                            | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Barium (Ba-Tot)                               | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Chromium (Cr-Total)                           | mg/L           | -  | -   | -  | -  | 0.0001  | 0.0001  |  |   |   |   |   |   |
| Copper (Cu-Total)                             | mg/L           | -  | -   | -  | -  | 0.0001  | 0.0001  |  |   |   |   |   |   |
| Zinc (Zn-Total)                               | mg/L           | -  | -   | -  | -  | 0.0001  | 0.0001  |  |   |   |   |   |   |
| Other (Ag-Total)                              | mg/L           | Varies with hardness. See note<br>Guideline = 0.0001                   | Varies with hardness. See note<br>Guideline = 0.00005                   | 0.0003   | 0.0015   | <0.00010  | <0.00010  |  | Varies with hardness.   | Varies with hardness.   |   | Guideline applies to coarse and estuarine. Guideline is applicable to the EGZ site.   |   |
| Other (Mg-Total)                              | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Other (Ca-Total)                              | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Manganese (Mn-Dissolved)                      | mg/L           | Varies with hardness. See note<br>Guideline = 0.7616                   | Varies with hardness. See note<br>Guideline = 0.7616                    | -  | -  | 0.0043  | 0.0007  |  | Guideline varies with hardness. The guideline is calculated using the following equation: Guideline = 0.0001 * Hardness.  | Guideline applies to samples with hardness 25-250 mg/L. Lowest value for guideline is 0.0001 mg/L. The minimum hardness will be applied in the calculation.   |   |   |   |
| Mercury (Hg-Dissolved)                        | mg/L           | -  | Varies with methyl mercury. See note<br>Guideline = 0.001               | -  | -  | -   | = 0.000005  | = 0.000005   |   | Guideline only applies to lakes with reduced species having the greatest bioaccumulation. Guideline is reference point and does not apply to sites.   |   |   |   |
| Nickel (Ni-Dissolved)                         | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  | Working guideline status.   | Guideline varies with the aquatic life (water column). Alert concentration is 0.001 mg/L, with separate guidance for benthic invertebrates and fish/tissue. Refer to BC Water Quality Guidelines for more information on guidance for aquatic life and working guideline status.  |   |   |   |
| Phosphate (P-Dissolved)                       | mg/L           | 0.002 to 0.015   | -   | -  | -  | 0.0008  | 0.0008  |  |   |   |   |   |   |
| Potassium (K-Dissolved)                       | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Strontium (Sr-Dissolved)                      | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Barium (Ba-Dissolved)                         | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Chromium (Cr-Dissolved)                       | mg/L           | -  | -   | -  | -  | 0.0001  | 0.0001  |  |   |   |   |   |   |
| Copper (Cu-Dissolved)                         | mg/L           | Guideline varies with other parameters. See note<br>Guideline = 0.0040 | Guideline varies with other parameters. See note<br>Guideline = 0.00005 | -  | -  | <0.000005   | 0.000002  |  | Guideline varies with hardness. Guideline is calculated using the following formula: Guideline = [0.0001 * Hardness] + [0.00001 * DOC] + [0.000001 * TDS]. Hardness is the hardness range, the minimum hardness or DOC will be applied in the calculation.                            | Guideline varies with hardness. Guideline is calculated using the following formula: Guideline = [0.0001 * Hardness] + [0.00001 * DOC] + [0.000001 * TDS]. Hardness is the hardness range, the minimum hardness or DOC will be applied in the calculation.  |   |   |   |
| Zinc (Zn-Dissolved)                           | mg/L           | Varies with DOX and hardness. See note<br>Guideline = 0.009            | Varies with DOX and hardness. See note<br>Guideline = 0.009             | -  | -  | 0.0017  | 0.0021  |  | Guideline varies with DOX and hardness. Guideline is calculated using the following formula: Guideline = [0.0001 * Hardness] + [0.00001 * DOC] + [0.000001 * TDS]. Hardness is the hardness range, the minimum hardness or DOX will be applied in the calculation.                    | Guideline varies with DOX and hardness. Guideline is calculated using the following formula: Guideline = [0.0001 * Hardness] + [0.00001 * DOC] + [0.000001 * TDS]. Hardness is the hardness range, the minimum hardness or DOX will be applied in the calculation.  |   |   |   |
| Chromium (Cr-Dissolved)                       | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Other (Ag-Dissolved)                          | mg/L           | 0.0001   | 0.0001  | -  | -  | 0.0001  | 0.0001  |  |   |   |   |   |   |
| Other (Mg-Dissolved)                          | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Other (Ca-Dissolved)                          | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Manganese (Mn-Dissolved)                      | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Mercury (Hg-Dissolved)                        | mg/L           | -  | -   | -  | -  | 0.0001  | 0.0001  |  |   |   |   |   |   |
| Nickel (Ni-Dissolved)                         | mg/L           | -  | -   | -  | -  | 0.0001  | 0.0001  |  |   |   |   |   |   |
| Phosphate (P-Dissolved)                       | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Potassium (K-Dissolved)                       | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Strontium (Sr-Dissolved)                      | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Barium (Ba-Dissolved)                         | mg/L           | -  | -   | -  | -  | 0.0002  | 0.0002  |  |   |   |   |   |   |
| Chromium (Cr-Dissolved)                       | mg/L           | -  | -   | -  | -  | 0.0001  | 0.0001  |  |   |   |   |   |   |
| Copper (Cu-Dissolved)                         | mg/L           | -  | -   | -  | -  | 0.0001  | 0.0001  |  |   |   |   |   |   |
| Zinc (Zn-Dissolved)                           | mg/L           | -  | -   | -  | -  | 0.0001  | 0.0001  |  |   |   |   |   |   |
| Chromium (Cr-Dissolved)                       | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Other (Ag-Dissolved)                          | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Other (Mg-Dissolved)                          | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Other (Ca-Dissolved)                          | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Manganese (Mn-Dissolved)                      | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Mercury (Hg-Dissolved)                        | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Nickel (Ni-Dissolved)                         | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Phosphate (P-Dissolved)                       | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Potassium (K-Dissolved)                       | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Strontium (Sr-Dissolved)                      | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Barium (Ba-Dissolved)                         | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Chromium (Cr-Dissolved)                       | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Copper (Cu-Dissolved)                         | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Zinc (Zn-Dissolved)                           | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Chromium (Cr-Dissolved)                       | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Other (Ag-Dissolved)                          | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Other (Mg-Dissolved)                          | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Other (Ca-Dissolved)                          | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Manganese (Mn-Dissolved)                      | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Mercury (Hg-Dissolved)                        | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Nickel (Ni-Dissolved)                         | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Phosphate (P-Dissolved)                       | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Potassium (K-Dissolved)                       | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Strontium (Sr-Dissolved)                      | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Barium (Ba-Dissolved)                         | mg/L           | -  | -   | -  | -  | -   | -   |  |   |   |   |   |   |
| Chromium (Cr-Dissolved)                       | mg/L           | -  | -   | -  | -  | -   |   |  |   |   |   |   |   |

|   |  |   |
|---|--|---|
|  <b>FORTIS BC™</b> | <b>Eagle Mountain - Woodfibre Gas Pipeline Project</b> | <b>Aug. 19<sup>th</sup> to Aug. 25<sup>th</sup>, 2024</b> |
|   | Report #   | 22  |
|   | Appendix D   | D-3   |

## Woodfibre Site Receiving Environment Lab Documentation

## CERTIFICATE OF ANALYSIS

|                         |   |                         |                                 |
|-------------------------|---|-------------------------|---------------------------------|
| Work Order              | : VA24C1105                             | Page                    | : 1 of 6                        |
| Client                  | : Triton Environmental Consultants Ltd. | Laboratory              | : ALS Environmental - Vancouver |
| Contact                 |   | Account Manager         |                                 |
| Address                 |   | Address                 |                                 |
| Telephone               |   | Telephone               |                                 |
| Project                 | : 11964                                 | Date Samples Received   | : 20-Aug-2024 17:10             |
| PO                      | : 11964-Task20-Phase3c-4c               | Date Analysis Commenced | : 20-Aug-2024                   |
| C-O-C number            | : ----                                  | Issue Date              | : 28-Aug-2024 14:47             |
| 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                     |
|-------------|--|---|
|             | Lab Assistant                              | Metals, Burnaby, British Columbia         |
|             | Analyst                                    | Metals, Burnaby, British Columbia         |
|             | Supervisor - Metals Prep & Mercury         | Metals, Burnaby, British Columbia         |
|             | Production Manager, Environmental          | Inorganics, Waterloo, Ontario             |
|             | Production Manager, Environmental          | Metals, Waterloo, Ontario                 |
|             | Supervisor - Inorganic                     | Inorganics, Burnaby, British Columbia     |
|             | Lab Analyst                                | Metals, Burnaby, British Columbia         |
|             | Lab Assistant                              | Inorganics, Burnaby, British Columbia     |
|             | Account Manager Assistant                  | Administration, Burnaby, British Columbia |
|             | Supervisor - Water Quality Instrumentation | Inorganics, Burnaby, British Columbia     |
|             | Analyst- General                           | 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.



## Analytical Results

| Client sample ID                                      |            |                   |         | WLNG US1             | WLNG DS1             | ---           | ---   | ---   |       |
|---|------------|-------------------|---------|----------------------|----------------------|---------------|-------|-------|-------|
| Client sampling date / time                           |            |                   |         | 20-Aug-2024<br>12:26 | 20-Aug-2024<br>10:23 | ---           | ---   | ---   |       |
| Analyte   | CAS Number | Method/Lab        | LOR     | Unit                 | VA24C1105-001        | VA24C1105-002 | ----- | ----- | ----- |
| <b>Field Tests</b>                                    |            |                   |         |                      |                      |               |       |       |       |
| Conductivity, field                                   | ----       | EF001/VA          | 0.10    | µS/cm                | 33.000               | 120.00        | ---   | ---   | ---   |
| pH, field   | ----       | EF001/VA          | 0.10    | pH units             | 7.73                 | 7.32          | ---   | ---   | ---   |
| Temperature, field                                    | ----       | EF001/VA          | 0.10    | °C                   | 16.0                 | 16.2          | ---   | ---   | ---   |
| <b>Physical Tests</b>                                 |            |                   |         |                      |                      |               |       |       |       |
| Hardness (as CaCO <sub>3</sub> ), dissolved           | ----       | EC100/VA          | 0.60    | mg/L                 | 9.44                 | 37.8          | ---   | ---   | ---   |
| Hardness (as CaCO <sub>3</sub> ), from total Ca/Mg    | ----       | EC100A/VA         | 0.60    | mg/L                 | 9.08                 | 36.7          | ---   | ---   | ---   |
| Solids, total dissolved [TDS]                         | ----       | E162/VA           | 10      | mg/L                 | 30                   | 60            | ---   | ---   | ---   |
| Solids, total suspended [TSS]                         | ----       | E160/VA           | 3.0     | mg/L                 | <3.0                 | <3.0          | ---   | ---   | ---   |
| Alkalinity, total (as CaCO <sub>3</sub> )             | ----       | E290/VA           | 2.0     | mg/L                 | 10.5                 | 41.4          | ---   | ---   | ---   |
| <b>Anions and Nutrients</b>                           |            |                   |         |                      |                      |               |       |       |       |
| 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                 | 0.74                 | 1.02          | ---   | ---   | ---   |
| Fluoride  | 16984-48-8 | E235.F/VA         | 0.020   | mg/L                 | 0.023                | 0.036         | ---   | ---   | ---   |
| Nitrate (as N)  | 14797-55-8 | E235.NO3-L/V<br>A | 0.0050  | mg/L                 | 0.0205               | 0.272         | ---   | ---   | ---   |
| Nitrite (as N)  | 14797-65-0 | E235.NO2-L/V<br>A | 0.0010  | mg/L                 | <0.0010              | <0.0010       | ---   | ---   | ---   |
| Nitrogen, total                                       | 7727-37-9  | E366/VA           | 0.030   | mg/L                 | 0.104                | 0.304         | ---   | ---   | ---   |
| Phosphorus, total                                     | 7723-14-0  | E372-U/VA         | 0.0020  | mg/L                 | 0.0086               | 0.0081        | ---   | ---   | ---   |
| Sulfate (as SO <sub>4</sub> )                         | 14808-79-8 | E235.SO4/VA       | 0.30    | mg/L                 | 2.55                 | 4.71          | ---   | ---   | ---   |
| <b>Organic / Inorganic Carbon</b>                     |            |                   |         |                      |                      |               |       |       |       |
| Carbon, dissolved organic [DOC]                       | ----       | E358-L/VA         | 0.50    | mg/L                 | 2.36                 | 1.23          | ---   | ---   | ---   |
| <b>Total Sulfides</b>                                 |            |                   |         |                      |                      |               |       |       |       |
| Sulfide, total (as S)                                 | 18496-25-8 | E395/VA           | 0.0015  | mg/L                 | <0.0015              | <0.0015       | ---   | ---   | ---   |
| Sulfide, un-ionized (as H <sub>2</sub> S), from total | 7783-06-4  | EC395/VA          | 0.0015  | mg/L                 | <0.0015              | <0.0015       | ---   | ---   | ---   |
| Sulfide, total (as H <sub>2</sub> S)                  | 7783-06-4  | E395/VA           | 0.0016  | mg/L                 | <0.0016              | <0.0016       | ---   | ---   | ---   |
| <b>Total Metals</b>                                   |            |                   |         |                      |                      |               |       |       |       |
| Aluminum, total                                       | 7429-90-5  | E420/VA           | 0.0030  | mg/L                 | 0.0580               | 0.0252        | ---   | ---   | ---   |
| Antimony, total                                       | 7440-36-0  | E420/VA           | 0.00010 | mg/L                 | <0.00010             | 0.00012       | ---   | ---   | ---   |



## Analytical Results

|                     |            |            |           |      | Client sample ID            | WLNG US1             | WLNG DS1             | ---   | ---   | ---   |
|---------------------|------------|------------|-----------|------|-----------------------------|----------------------|----------------------|-------|-------|-------|
|                     |            |            |           |      | Client sampling date / time | 20-Aug-2024<br>12:26 | 20-Aug-2024<br>10:23 | ---   | ---   | ---   |
| Analyte             | CAS Number | Method/Lab | LOR       | Unit | VA24C1105-001               | VA24C1105-002        | -----                | ----- | ----- | ----- |
|                     |            |            |           |      | Result                      | Result               | ---                  | ---   | ---   | ---   |
| <b>Total Metals</b> |            |            |           |      |                             |                      |                      |       |       |       |
| Arsenic, total      | 7440-38-2  | E420/VA    | 0.00010   | mg/L | 0.00016                     | 0.00012              | ---                  | ---   | ---   | ---   |
| Barium, total       | 7440-39-3  | E420/VA    | 0.00010   | mg/L | 0.00546                     | 0.0113               | ---                  | ---   | ---   | ---   |
| 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                      | 0.012                | ---                  | ---   | ---   | ---   |
| Cadmium, total      | 7440-43-9  | E420/VA    | 0.0000050 | mg/L | <0.0000050                  | 0.0000091            | ---                  | ---   | ---   | ---   |
| Calcium, total      | 7440-70-2  | E420/VA    | 0.050     | mg/L | 3.12                        | 13.4                 | ---                  | ---   | ---   | ---   |
| Cesium, total       | 7440-46-2  | E420/VA    | 0.000010  | mg/L | 0.000012                    | <0.000010            | ---                  | ---   | ---   | ---   |
| 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 | <0.00010                    | <0.00010             | ---                  | ---   | ---   | ---   |
| Copper, total       | 7440-50-8  | E420/VA    | 0.00050   | mg/L | 0.00068                     | 0.00062              | ---                  | ---   | ---   | ---   |
| Iron, total         | 7439-89-6  | E420/VA    | 0.010     | mg/L | 0.086                       | 0.010                | ---                  | ---   | ---   | ---   |
| Lead, total         | 7439-92-1  | E420/VA    | 0.000050  | mg/L | 0.000052                    | <0.000050            | ---                  | ---   | ---   | ---   |
| 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 | 0.314                       | 0.795                | ---                  | ---   | ---   | ---   |
| Manganese, total    | 7439-96-5  | E420/VA    | 0.00010   | mg/L | 0.00243                     | 0.00070              | ---                  | ---   | ---   | ---   |
| 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 | 0.000565                    | 0.00141              | ---                  | ---   | ---   | ---   |
| 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                      | <0.050               | ---                  | ---   | ---   | ---   |
| Potassium, total    | 7440-09-7  | E420/VA    | 0.050     | mg/L | 0.348                       | 0.714                | ---                  | ---   | ---   | ---   |
| Rubidium, total     | 7440-17-7  | E420/VA    | 0.00020   | mg/L | 0.00092                     | 0.00124              | ---                  | ---   | ---   | ---   |
| 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 | 4.90                        | 5.23                 | ---                  | ---   | ---   | ---   |
| 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 | 2.02                        | 3.29                 | ---                  | ---   | ---   | ---   |
| Strontium, total    | 7440-24-6  | E420/VA    | 0.00020   | mg/L | 0.0172                      | 0.0462               | ---                  | ---   | ---   | ---   |
| Sulfur, total       | 7704-34-9  | E420/VA    | 0.50      | mg/L | <0.50                       | 1.25                 | ---                  | ---   | ---   | ---   |
| 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<br>(Matrix: Water) |            |            |           |      | Client sample ID            | WLNG US1             | WLNG DS1             | ---   | ---   | ---   |
|--------------------------------------|------------|------------|-----------|------|-----------------------------|----------------------|----------------------|-------|-------|-------|
|                                      |            |            |           |      | Client sampling date / time | 20-Aug-2024<br>12:26 | 20-Aug-2024<br>10:23 | ---   | ---   | ---   |
| Analyte                              | CAS Number | Method/Lab | LOR       | Unit | VA24C1105-001               | VA24C1105-002        | -----                | ----- | ----- | ----- |
|                                      |            |            |           |      | Result                      | Result               | ---                  | ---   | ---   | ---   |
| <b>Total Metals</b>                  |            |            |           |      |                             |                      |                      |       |       |       |
| 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 | 0.00089                     | <0.00030             | ---                  | ---   | ---   | ---   |
| 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 | 0.000066                    | 0.000083             | ---                  | ---   | ---   | ---   |
| Vanadium, total                      | 7440-62-2  | E420/VA    | 0.00050   | mg/L | <0.00050                    | <0.00050             | ---                  | ---   | ---   | ---   |
| Zinc, total                          | 7440-66-6  | E420/VA    | 0.0030    | mg/L | <0.0030                     | <0.0030              | ---                  | ---   | ---   | ---   |
| Zirconium, total                     | 7440-67-7  | E420/VA    | 0.00020   | mg/L | <0.00020                    | <0.00020             | ---                  | ---   | ---   | ---   |
| <b>Dissolved Metals</b>              |            |            |           |      |                             |                      |                      |       |       |       |
| Aluminum, dissolved                  | 7429-90-5  | E421/VA    | 0.0010    | mg/L | 0.0425                      | 0.0190               | ---                  | ---   | ---   | ---   |
| Antimony, dissolved                  | 7440-36-0  | E421/VA    | 0.00010   | mg/L | <0.00010                    | 0.00014              | ---                  | ---   | ---   | ---   |
| Arsenic, dissolved                   | 7440-38-2  | E421/VA    | 0.00010   | mg/L | 0.00014                     | 0.00012              | ---                  | ---   | ---   | ---   |
| Barium, dissolved                    | 7440-39-3  | E421/VA    | 0.00010   | mg/L | 0.00515                     | 0.0120               | ---                  | ---   | ---   | ---   |
| 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                      | 0.013                | ---                  | ---   | ---   | ---   |
| Cadmium, dissolved                   | 7440-43-9  | E421/VA    | 0.0000050 | mg/L | <0.0000050                  | 0.0000082            | ---                  | ---   | ---   | ---   |
| Calcium, dissolved                   | 7440-70-2  | E421/VA    | 0.050     | mg/L | 3.31                        | 13.9                 | ---                  | ---   | ---   | ---   |
| Cesium, dissolved                    | 7440-46-2  | E421/VA    | 0.000010  | mg/L | 0.000012                    | 0.000011             | ---                  | ---   | ---   | ---   |
| 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 | 0.00064                     | 0.00063              | ---                  | ---   | ---   | ---   |
| Iron, dissolved                      | 7439-89-6  | E421/VA    | 0.010     | mg/L | 0.054                       | <0.010               | ---                  | ---   | ---   | ---   |
| 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 | 0.286                       | 0.744                | ---                  | ---   | ---   | ---   |
| Manganese, dissolved                 | 7439-96-5  | E421/VA    | 0.00010   | mg/L | 0.00156                     | 0.00035              | ---                  | ---   | ---   | ---   |
| 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 | 0.000534                    | 0.00150              | ---                  | ---   | ---   | ---   |
| Nickel, dissolved                    | 7440-02-0  | E421/VA    | 0.00050   | mg/L | <0.00050                    | <0.00050             | ---                  | ---   | ---   | ---   |



## Analytical Results

|                                       |            |            |          |      | Client sample ID            | WLNG US1             | WLNG DS1             | ---   | ---   | --- |
|---------------------------------------|------------|------------|----------|------|-----------------------------|----------------------|----------------------|-------|-------|-----|
|                                       |            |            |          |      | Client sampling date / time | 20-Aug-2024<br>12:26 | 20-Aug-2024<br>10:23 | ---   | ---   | --- |
| Analyte                               | CAS Number | Method/Lab | LOR      | Unit | VA24C1105-001               | VA24C1105-002        | -----                | ----- | ----- |     |
|                                       |            |            |          |      | Result                      | Result               | ---                  | ---   | ---   |     |
| <b>Dissolved Metals</b>               |            |            |          |      |                             |                      |                      |       |       |     |
| 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 | 0.334                       | 0.715                | ---                  | ---   | ---   | --- |
| Rubidium, dissolved                   | 7440-17-7  | E421/VA    | 0.00020  | mg/L | 0.00095                     | 0.00121              | ---                  | ---   | ---   | --- |
| 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 | 4.64                        | 5.35                 | ---                  | ---   | ---   | --- |
| 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 | 1.78                        | 3.04                 | ---                  | ---   | ---   | --- |
| Strontium, dissolved                  | 7440-24-6  | E421/VA    | 0.00020  | mg/L | 0.0178                      | 0.0474               | ---                  | ---   | ---   | --- |
| Sulfur, dissolved                     | 7704-34-9  | E421/VA    | 0.50     | mg/L | 0.53                        | 1.20                 | ---                  | ---   | ---   | --- |
| 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 | 0.00031                     | <0.00030             | ---                  | ---   | ---   | --- |
| 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 | 0.000059                    | 0.000068             | ---                  | ---   | ---   | --- |
| Vanadium, dissolved                   | 7440-62-2  | E421/VA    | 0.00050  | mg/L | <0.00050                    | <0.00050             | ---                  | ---   | ---   | --- |
| Zinc, dissolved                       | 7440-66-6  | E421/VA    | 0.0010   | mg/L | 0.0017                      | 0.0031               | ---                  | ---   | ---   | --- |
| 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                | ---                  | ---   | ---   | --- |
| <b>Speciated Metals</b>               |            |            |          |      |                             |                      |                      |       |       |     |
| Chromium, hexavalent [Cr VI], total   | 18540-29-9 | E532/WT    | 0.00050  | mg/L | <0.00050                    | <0.00050             | ---                  | ---   | ---   | --- |
| Chromium, trivalent [Cr III], total   | 16065-83-1 | EC535/WT   | 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              | : VA24C1105                             | 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 | : 20-Aug-2024 17:10             |
| PO                      | : 11964-Task20-Phase3c-4c               | Issue Date            | : 28-Aug-2024 14:47             |
| 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      |               |        | 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)<br>WLNG US1             |                                 | E298      | 20-Aug-2024   | 20-Aug-2024              | 28 days       | 0 days | ✓    | 21-Aug-2024   | 28 days       | 1 days | ✓   |               |        |      |  |
| Anions and Nutrients : Ammonia by Fluorescence            |                                 |           |               |                          |               |        |      |               |               |        |   |               |        |      |  |
| Amber glass total (sulfuric acid)<br>WLNG DS1             |                                 | E298      | 20-Aug-2024   | 25-Aug-2024              | 28 days       | 5 days | ✓    | 26-Aug-2024   | 28 days       | 6 days | ✓   |               |        |      |  |
| Anions and Nutrients : Bromide in Water by IC (Low Level) |                                 |           |               |                          |               |        |      |               |               |        |   |               |        |      |  |
| HDPE<br>WLNG DS1  |                                 | E235.Br-L | 20-Aug-2024   | 21-Aug-2024              | 28 days       | 1 days | ✓    | 21-Aug-2024   | 28 days       | 1 days | ✓   |               |        |      |  |
| Anions and Nutrients : Bromide in Water by IC (Low Level) |                                 |           |               |                          |               |        |      |               |               |        |   |               |        |      |  |
| HDPE<br>WLNG US1  |                                 | E235.Br-L | 20-Aug-2024   | 21-Aug-2024              | 28 days       | 1 days | ✓    | 21-Aug-2024   | 28 days       | 1 days | ✓   |               |        |      |  |
| Anions and Nutrients : Chloride in Water by IC            |                                 |           |               |                          |               |        |      |               |               |        |   |               |        |      |  |
| HDPE<br>WLNG DS1  |                                 | E235.Cl   | 20-Aug-2024   | 21-Aug-2024              | 28 days       | 1 days | ✓    | 21-Aug-2024   | 28 days       | 1 days | ✓   |               |        |      |  |
| Anions and Nutrients : Chloride in Water by IC            |                                 |           |               |                          |               |        |      |               |               |        |   |               |        |      |  |
| HDPE<br>WLNG US1  |                                 | E235.Cl   | 20-Aug-2024   | 21-Aug-2024              | 28 days       | 1 days | ✓    | 21-Aug-2024   | 28 days       | 1 days | ✓   |               |        |      |  |
| Anions and Nutrients : Fluoride in Water by IC            |                                 |           |               |                          |               |        |      |               |               |        |   |               |        |      |  |
| HDPE<br>WLNG DS1  |                                 | E235.F    | 20-Aug-2024   | 21-Aug-2024              | 28 days       | 1 days | ✓    | 21-Aug-2024   | 28 days       | 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 | Eval   | Analysis Date | Holding Times | Eval    |        |   |
| Container / Client Sample ID(s)                                  | Rec        | Actual        | Rec                      | Actual        |        | Rec           | Actual        | Eval    |        |   |
| <b>Anions and Nutrients : Fluoride in Water by IC</b>            |            |               |                          |               |        |               |               |         |        |   |
| HDPE<br>WLNG US1   | E235.F     | 20-Aug-2024   | 21-Aug-2024              | 28 days       | 1 days | ✓             | 21-Aug-2024   | 28 days | 1 days | ✓ |
| <b>Anions and Nutrients : Nitrate in Water by IC (Low Level)</b> |            |               |                          |               |        |               |               |         |        |   |
| HDPE<br>WLNG DS1   | E235.NO3-L | 20-Aug-2024   | 21-Aug-2024              | 3 days        | 1 days | ✓             | 21-Aug-2024   | 3 days  | 1 days | ✓ |
| <b>Anions and Nutrients : Nitrate in Water by IC (Low Level)</b> |            |               |                          |               |        |               |               |         |        |   |
| HDPE<br>WLNG US1   | E235.NO3-L | 20-Aug-2024   | 21-Aug-2024              | 3 days        | 1 days | ✓             | 21-Aug-2024   | 3 days  | 1 days | ✓ |
| <b>Anions and Nutrients : Nitrite in Water by IC (Low Level)</b> |            |               |                          |               |        |               |               |         |        |   |
| HDPE<br>WLNG DS1   | E235.NO2-L | 20-Aug-2024   | 21-Aug-2024              | 3 days        | 1 days | ✓             | 21-Aug-2024   | 3 days  | 1 days | ✓ |
| <b>Anions and Nutrients : Nitrite in Water by IC (Low Level)</b> |            |               |                          |               |        |               |               |         |        |   |
| HDPE<br>WLNG US1   | E235.NO2-L | 20-Aug-2024   | 21-Aug-2024              | 3 days        | 1 days | ✓             | 21-Aug-2024   | 3 days  | 1 days | ✓ |
| <b>Anions and Nutrients : Sulfate in Water by IC</b>             |            |               |                          |               |        |               |               |         |        |   |
| HDPE<br>WLNG DS1   | E235.SO4   | 20-Aug-2024   | 21-Aug-2024              | 28 days       | 1 days | ✓             | 21-Aug-2024   | 28 days | 1 days | ✓ |
| <b>Anions and Nutrients : Sulfate in Water by IC</b>             |            |               |                          |               |        |               |               |         |        |   |
| HDPE<br>WLNG US1   | E235.SO4   | 20-Aug-2024   | 21-Aug-2024              | 28 days       | 1 days | ✓             | 21-Aug-2024   | 28 days | 1 days | ✓ |
| <b>Anions and Nutrients : Total Nitrogen by Colourimetry</b>     |            |               |                          |               |        |               |               |         |        |   |
| Amber glass total (sulfuric acid)<br>WLNG US1                    | E366       | 20-Aug-2024   | 20-Aug-2024              | 28 days       | 0 days | ✓             | 21-Aug-2024   | 28 days | 1 days | ✓ |
| <b>Anions and Nutrients : Total Nitrogen by Colourimetry</b>     |            |               |                          |               |        |               |               |         |        |   |
| Amber glass total (sulfuric acid)<br>WLNG DS1                    | E366       | 20-Aug-2024   | 25-Aug-2024              | 28 days       | 5 days | ✓             | 27-Aug-2024   | 28 days | 7 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 |   |
| <b>Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)</b>  |        |               |                          |                   |                      |      |               |                   |                      |   |
| Amber glass total (sulfuric acid)<br>WLNG US1  | E372-U | 20-Aug-2024   | 20-Aug-2024              | 28 days           | 0 days               | ✓    | 22-Aug-2024   | 28 days           | 2 days               | ✓ |
| <b>Anions and Nutrients : Total Phosphorus by Colourimetry (0.002 mg/L)</b>  |        |               |                          |                   |                      |      |               |                   |                      |   |
| Amber glass total (sulfuric acid)<br>WLNG DS1  | E372-U | 20-Aug-2024   | 25-Aug-2024              | 28 days           | 5 days               | ✓    | 28-Aug-2024   | 28 days           | 8 days               | ✓ |
| <b>Dissolved Metals : Dissolved Mercury in Water by CVAAS</b>  |        |               |                          |                   |                      |      |               |                   |                      |   |
| Glass vial - dissolved (lab preserved)<br>WLNG DS1   | E509   | 20-Aug-2024   | 22-Aug-2024              | 28 days           | 2 days               | ✓    | 22-Aug-2024   | 28 days           | 2 days               | ✓ |
| <b>Dissolved Metals : Dissolved Mercury in Water by CVAAS</b>  |        |               |                          |                   |                      |      |               |                   |                      |   |
| Glass vial - dissolved (lab preserved)<br>WLNG US1   | E509   | 20-Aug-2024   | 22-Aug-2024              | 28 days           | 2 days               | ✓    | 22-Aug-2024   | 28 days           | 2 days               | ✓ |
| <b>Dissolved Metals : Dissolved Metals in Water by CRC ICPMS</b>   |        |               |                          |                   |                      |      |               |                   |                      |   |
| HDPE - dissolved (lab preserved)<br>WLNG DS1   | E421   | 20-Aug-2024   | 21-Aug-2024              | 180 days          | 1 days               | ✓    | 23-Aug-2024   | 180 days          | 3 days               | ✓ |
| <b>Dissolved Metals : Dissolved Metals in Water by CRC ICPMS</b>   |        |               |                          |                   |                      |      |               |                   |                      |   |
| HDPE - dissolved (lab preserved)<br>WLNG US1   | E421   | 20-Aug-2024   | 21-Aug-2024              | 180 days          | 1 days               | ✓    | 23-Aug-2024   | 180 days          | 3 days               | ✓ |
| <b>Field Tests : Field pH,EC,Salinity, TDS, Cl<sub>2</sub>,ClO<sub>2</sub>,ORP,DO, Turbidity,T,T-P,o-PO<sub>4</sub>,NH3,Chloramine</b> |        |               |                          |                   |                      |      |               |                   |                      |   |
| Glass vial - total (lab preserved)<br>WLNG DS1   | EF001  | 20-Aug-2024   | ---                      | ---               | ---                  |      | 21-Aug-2024   | ---               | 1 days               |   |
| <b>Field Tests : Field pH,EC,Salinity, TDS, Cl<sub>2</sub>,ClO<sub>2</sub>,ORP,DO, Turbidity,T,T-P,o-PO<sub>4</sub>,NH3,Chloramine</b> |        |               |                          |                   |                      |      |               |                   |                      |   |
| Glass vial - total (lab preserved)<br>WLNG US1   | EF001  | 20-Aug-2024   | ---                      | ---               | ---                  |      | 21-Aug-2024   | ---               | 1 days               |   |
| <b>Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)</b>   |        |               |                          |                   |                      |      |               |                   |                      |   |
| Amber glass dissolved (sulfuric acid)<br>WLNG US1  | E358-L | 20-Aug-2024   | 20-Aug-2024              | 28 days           | 0 days               | ✓    | 21-Aug-2024   | 28 days           | 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 |
| <b>Organic / Inorganic Carbon : Dissolved Organic Carbon by Combustion (Low Level)</b> |        |               |                          |                   |                      |      |               |                   |                      |
| Amber glass dissolved (sulfuric acid)<br>WLNG DS1                                      | E358-L | 20-Aug-2024   | 27-Aug-2024              | 28 days           | 7 days               | ✓    | 27-Aug-2024   | 28 days           | 7 days               |
| <b>Physical Tests : Alkalinity Species by Titration</b>                                |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>WLNG DS1   | E290   | 20-Aug-2024   | 21-Aug-2024              | 14 days           | 1 days               | ✓    | 21-Aug-2024   | 14 days           | 1 days               |
| <b>Physical Tests : Alkalinity Species by Titration</b>                                |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>WLNG US1   | E290   | 20-Aug-2024   | 21-Aug-2024              | 14 days           | 1 days               | ✓    | 21-Aug-2024   | 14 days           | 1 days               |
| <b>Physical Tests : TDS by Gravimetry</b>  |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>WLNG US1   | E162   | 20-Aug-2024   | ---                      | ---               | ---                  |      | 26-Aug-2024   | 7 days            | 6 days               |
| <b>Physical Tests : TDS by Gravimetry</b>  |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>WLNG DS1   | E162   | 20-Aug-2024   | ---                      | ---               | ---                  |      | 26-Aug-2024   | 7 days            | 7 days               |
| <b>Physical Tests : TSS by Gravimetry</b>  |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>WLNG DS1   | E160   | 20-Aug-2024   | ---                      | ---               | ---                  |      | 26-Aug-2024   | 7 days            | 6 days               |
| <b>Physical Tests : TSS by Gravimetry</b>  |        |               |                          |                   |                      |      |               |                   |                      |
| HDPE<br>WLNG US1   | E160   | 20-Aug-2024   | ---                      | ---               | ---                  |      | 26-Aug-2024   | 7 days            | 6 days               |
| <b>Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC</b>                      |        |               |                          |                   |                      |      |               |                   |                      |
| UV-inhibited HDPE - total (sodium hydroxide)<br>WLNG DS1                               | E532   | 20-Aug-2024   | ---                      | ---               | ---                  |      | 23-Aug-2024   | 28 days           | 3 days               |
| <b>Speciated Metals : Total Hexavalent Chromium (Cr VI) by IC</b>                      |        |               |                          |                   |                      |      |               |                   |                      |
| UV-inhibited HDPE - total (sodium hydroxide)<br>WLNG US1                               | E532   | 20-Aug-2024   | ---                      | ---               | ---                  |      | 23-Aug-2024   | 28 days           | 3 days               |



| 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 Rec | Holding Times Actual | Eval | Analysis Date | Holding Times Rec | Holding Times Actual  | Eval |  |
| <b>Total Metals : Total Mercury in Water by CVAAS</b>                  |                                 |        |               |                          |                   |                      |      |               |                   |   |      |  |
| Glass vial - total (lab preserved)<br>WLNG US1                         |                                 | E508   | 20-Aug-2024   | 22-Aug-2024              | 28 days           | 2 days               | ✓    | 22-Aug-2024   | 28 days           | 2 days  | ✓    |  |
| <b>Total Metals : Total Mercury in Water by CVAAS</b>                  |                                 |        |               |                          |                   |                      |      |               |                   |   |      |  |
| Glass vial - total (lab preserved)<br>WLNG DS1                         |                                 | E508   | 20-Aug-2024   | 25-Aug-2024              | 28 days           | 5 days               | ✓    | 25-Aug-2024   | 28 days           | 5 days  | ✓    |  |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>               |                                 |        |               |                          |                   |                      |      |               |                   |   |      |  |
| HDPE - total (lab preserved)<br>WLNG DS1                               |                                 | E420   | 20-Aug-2024   | 21-Aug-2024              | 180 days          | 1 days               | ✓    | 22-Aug-2024   | 180 days          | 2 days  | ✓    |  |
| <b>Total Metals : Total Metals in Water by CRC ICPMS</b>               |                                 |        |               |                          |                   |                      |      |               |                   |   |      |  |
| HDPE - total (lab preserved)<br>WLNG US1                               |                                 | E420   | 20-Aug-2024   | 21-Aug-2024              | 180 days          | 1 days               | ✓    | 22-Aug-2024   | 180 days          | 2 days  | ✓    |  |
| <b>Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)</b> |                                 |        |               |                          |                   |                      |      |               |                   |   |      |  |
| HDPE total (zinc acetate+sodium hydroxide)<br>WLNG DS1                 |                                 | E395   | 20-Aug-2024   | ----                     | ----              | ----                 |      | 24-Aug-2024   | 7 days            | 4 days  | ✓    |  |
| <b>Total Sulfides : Total Sulfide by Colourimetry (Automated Flow)</b> |                                 |        |               |                          |                   |                      |      |               |                   |   |      |  |
| HDPE total (zinc acetate+sodium hydroxide)<br>WLNG US1                 |                                 | E395   | 20-Aug-2024   | ----                     | ----              | ----                 |      | 24-Aug-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 |
| <b>Laboratory Duplicates (DUP)</b>                 |                    |            |          |       |         |               |          |            |
| Alkalinity Species by Titration                    |                    | E290       | 1607345  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Ammonia by Fluorescence                            |                    | E298       | 1607078  | 2     | 32      | 6.2           | 5.0      | ✓          |
| Bromide in Water by IC (Low Level)                 |                    | E235.Br-L  | 1607350  | 1     | 8       | 12.5          | 5.0      | ✓          |
| Chloride in Water by IC                            |                    | E235.Cl    | 1607349  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Dissolved Mercury in Water by CVAAS                |                    | E509       | 1610589  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Dissolved Metals in Water by CRC ICPMS             |                    | E421       | 1607992  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Dissolved Organic Carbon by Combustion (Low Level) |                    | E358-L     | 1607079  | 2     | 10      | 20.0          | 5.0      | ✓          |
| Fluoride in Water by IC                            |                    | E235.F     | 1607348  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Nitrate in Water by IC (Low Level)                 |                    | E235.NO3-L | 1607351  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Nitrite in Water by IC (Low Level)                 |                    | E235.NO2-L | 1607352  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Sulfate in Water by IC                             |                    | E235.SO4   | 1607353  | 1     | 15      | 6.6           | 5.0      | ✓          |
| TDS by Gravimetry                                  |                    | E162       | 1617393  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Total Hexavalent Chromium (Cr VI) by IC            |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Total Mercury in Water by CVAAS                    |                    | E508       | 1610399  | 2     | 35      | 5.7           | 5.0      | ✓          |
| Total Metals in Water by CRC ICPMS                 |                    | E420       | 1607119  | 1     | 18      | 5.5           | 5.0      | ✓          |
| Total Nitrogen by Colourimetry                     |                    | E366       | 1607076  | 2     | 20      | 10.0          | 5.0      | ✓          |
| Total Phosphorus by Colourimetry (0.002 mg/L)      |                    | E372-U     | 1607077  | 2     | 23      | 8.7           | 5.0      | ✓          |
| Total Sulfide by Colourimetry (Automated Flow)     |                    | E395       | 1614424  | 1     | 17      | 5.8           | 5.0      | ✓          |
| TSS by Gravimetry                                  |                    | E160       | 1617384  | 1     | 20      | 5.0           | 5.0      | ✓          |
| <b>Laboratory Control Samples (LCS)</b>            |                    |            |          |       |         |               |          |            |
| Alkalinity Species by Titration                    |                    | E290       | 1607345  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Ammonia by Fluorescence                            |                    | E298       | 1607078  | 2     | 32      | 6.2           | 5.0      | ✓          |
| Bromide in Water by IC (Low Level)                 |                    | E235.Br-L  | 1607350  | 1     | 8       | 12.5          | 5.0      | ✓          |
| Chloride in Water by IC                            |                    | E235.Cl    | 1607349  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Dissolved Mercury in Water by CVAAS                |                    | E509       | 1610589  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Dissolved Metals in Water by CRC ICPMS             |                    | E421       | 1607992  | 1     | 12      | 8.3           | 5.0      | ✓          |
| Dissolved Organic Carbon by Combustion (Low Level) |                    | E358-L     | 1607079  | 2     | 10      | 20.0          | 5.0      | ✓          |
| Fluoride in Water by IC                            |                    | E235.F     | 1607348  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Nitrate in Water by IC (Low Level)                 |                    | E235.NO3-L | 1607351  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Nitrite in Water by IC (Low Level)                 |                    | E235.NO2-L | 1607352  | 1     | 15      | 6.6           | 5.0      | ✓          |
| Sulfate in Water by IC                             |                    | E235.SO4   | 1607353  | 1     | 15      | 6.6           | 5.0      | ✓          |
| TDS by Gravimetry                                  |                    | E162       | 1617393  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Total Hexavalent Chromium (Cr VI) by IC            |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      | ✓          |
| Total Mercury in Water by CVAAS                    |                    | E508       | 1610399  | 2     | 35      | 5.7           | 5.0      | ✓          |
| Total Metals in Water by CRC ICPMS                 |                    | E420       | 1607119  | 1     | 18      | 5.5           | 5.0      | ✓          |
| Total Nitrogen by Colourimetry                     |                    | E366       | 1607076  | 2     | 20      | 10.0          | 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 |
| <b>Laboratory Control Samples (LCS) - Continued</b> |                    |            |          |       |         |               |          |
| Total Phosphorus by Colourimetry (0.002 mg/L)       |                    | E372-U     | 1607077  | 2     | 23      | 8.7           | 5.0      |
| Total Sulfide by Colourimetry (Automated Flow)      |                    | E395       | 1614424  | 1     | 17      | 5.8           | 5.0      |
| TSS by Gravimetry                                   |                    | E160       | 1617384  | 1     | 20      | 5.0           | 5.0      |
| <b>Method Blanks (MB)</b>                           |                    |            |          |       |         |               |          |
| Alkalinity Species by Titration                     |                    | E290       | 1607345  | 1     | 15      | 6.6           | 5.0      |
| Ammonia by Fluorescence                             |                    | E298       | 1607078  | 2     | 32      | 6.2           | 5.0      |
| Bromide in Water by IC (Low Level)                  |                    | E235.Br-L  | 1607350  | 1     | 8       | 12.5          | 5.0      |
| Chloride in Water by IC                             |                    | E235.Cl    | 1607349  | 1     | 15      | 6.6           | 5.0      |
| Dissolved Mercury in Water by CVAAS                 |                    | E509       | 1610589  | 1     | 20      | 5.0           | 5.0      |
| Dissolved Metals in Water by CRC ICPMS              |                    | E421       | 1607992  | 1     | 12      | 8.3           | 5.0      |
| Dissolved Organic Carbon by Combustion (Low Level)  |                    | E358-L     | 1607079  | 2     | 10      | 20.0          | 5.0      |
| Fluoride in Water by IC                             |                    | E235.F     | 1607348  | 1     | 15      | 6.6           | 5.0      |
| Nitrate in Water by IC (Low Level)                  |                    | E235.NO3-L | 1607351  | 1     | 15      | 6.6           | 5.0      |
| Nitrite in Water by IC (Low Level)                  |                    | E235.NO2-L | 1607352  | 1     | 15      | 6.6           | 5.0      |
| Sulfate in Water by IC                              |                    | E235.SO4   | 1607353  | 1     | 15      | 6.6           | 5.0      |
| TDS by Gravimetry                                   |                    | E162       | 1617393  | 1     | 20      | 5.0           | 5.0      |
| Total Hexavalent Chromium (Cr VI) by IC             |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      |
| Total Mercury in Water by CVAAS                     |                    | E508       | 1610399  | 2     | 35      | 5.7           | 5.0      |
| Total Metals in Water by CRC ICPMS                  |                    | E420       | 1607119  | 1     | 18      | 5.5           | 5.0      |
| Total Nitrogen by Colourimetry                      |                    | E366       | 1607076  | 2     | 20      | 10.0          | 5.0      |
| Total Phosphorus by Colourimetry (0.002 mg/L)       |                    | E372-U     | 1607077  | 2     | 23      | 8.7           | 5.0      |
| Total Sulfide by Colourimetry (Automated Flow)      |                    | E395       | 1614424  | 1     | 17      | 5.8           | 5.0      |
| TSS by Gravimetry                                   |                    | E160       | 1617384  | 1     | 20      | 5.0           | 5.0      |
| <b>Matrix Spikes (MS)</b>                           |                    |            |          |       |         |               |          |
| Ammonia by Fluorescence                             |                    | E298       | 1607078  | 2     | 32      | 6.2           | 5.0      |
| Bromide in Water by IC (Low Level)                  |                    | E235.Br-L  | 1607350  | 1     | 8       | 12.5          | 5.0      |
| Chloride in Water by IC                             |                    | E235.Cl    | 1607349  | 1     | 15      | 6.6           | 5.0      |
| Dissolved Mercury in Water by CVAAS                 |                    | E509       | 1610589  | 1     | 20      | 5.0           | 5.0      |
| Dissolved Metals in Water by CRC ICPMS              |                    | E421       | 1607992  | 1     | 12      | 8.3           | 5.0      |
| Dissolved Organic Carbon by Combustion (Low Level)  |                    | E358-L     | 1607079  | 2     | 10      | 20.0          | 5.0      |
| Fluoride in Water by IC                             |                    | E235.F     | 1607348  | 1     | 15      | 6.6           | 5.0      |
| Nitrate in Water by IC (Low Level)                  |                    | E235.NO3-L | 1607351  | 1     | 15      | 6.6           | 5.0      |
| Nitrite in Water by IC (Low Level)                  |                    | E235.NO2-L | 1607352  | 1     | 15      | 6.6           | 5.0      |
| Sulfate in Water by IC                              |                    | E235.SO4   | 1607353  | 1     | 15      | 6.6           | 5.0      |
| Total Hexavalent Chromium (Cr VI) by IC             |                    | E532       | 1612282  | 1     | 20      | 5.0           | 5.0      |
| Total Mercury in Water by CVAAS                     |                    | E508       | 1610399  | 2     | 35      | 5.7           | 5.0      |
| Total Metals in Water by CRC ICPMS                  |                    | E420       | 1607119  | 1     | 18      | 5.5           | 5.0      |
| Total Nitrogen by Colourimetry                      |                    | E366       | 1607076  | 2     | 20      | 10.0          | 5.0      |
| Total Phosphorus by Colourimetry (0.002 mg/L)       |                    | E372-U     | 1607077  | 2     | 23      | 8.7           | 5.0      |

## Matrix: Water

Evaluation: **x** = QC frequency outside specification; **✓** = QC frequency within specification.

| Quality Control Sample Type                    |  |        | Count    |    | Frequency (%) |        |          |            |
|--|--|--------|----------|----|---------------|--------|----------|------------|
| Analytical Methods                             |  | Method | QC Lot # | QC | Regular       | Actual | Expected | Evaluation |
| <b>Matrix Spikes (MS) - Continued</b>          |  |        |          |    |               |        |          |            |
| Total Sulfide by Colourimetry (Automated Flow) |  | E395   | 1614424  | 1  | 17            | 5.8    | 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").

| <b>Analytical Methods</b>          | <b>Method / Lab</b>                         | <b>Matrix</b> | <b>Method Reference</b> | <b>Method Descriptions</b>  |
|------------------------------------|---|---------------|-------------------------|---|
| TSS by Gravimetry                  | E160<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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<br>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 <sub>2</sub> . 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<br>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<br>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<br>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 <sub>2</sub> S" if reported represent the maximum possible H <sub>2</sub> S concentration based on the total sulfide concentration in the sample. The H <sub>2</sub> S calculation converts Total Sulphide as (S <sup>2-</sup> ) and reports it as Total Sulphide as (H <sub>2</sub> S)  |
| Total Metals in Water by CRC ICPMS                 | E420<br>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<br>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<br>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<br>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<br>ALS Environmental - Waterloo    | 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<br>ALS Environmental - Vancouver  | Water  | APHA 2340B                          | "Hardness (as CaCO <sub>3</sub> , dissolved)" is calculated from the sum of dissolved Calcium and Magnesium concentrations, expressed in CaCO <sub>3</sub> 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<br>ALS Environmental - Vancouver | Water  | APHA 2340B                          | "Hardness (as CaCO <sub>3</sub> , from total Ca/Mg)" is calculated from the sum of total Calcium and Magnesium concentrations, expressed in CaCO <sub>3</sub> 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<br>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<br>ALS Environmental - Waterloo   | 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, TDS, Cl <sub>2</sub> ,ClO <sub>2</sub> ,ORP,DO, Turbidity,T,T-P,o-PO <sub>4</sub> ,NH <sub>3</sub> ,Chloramine |  | EF001<br>ALS Environmental - Vancouver  | Water  | Field Measurement (Client Supplied) | Field pH,EC,Salinity, TDS, Cl <sub>2</sub> ,ClO <sub>2</sub> ,ORP,DO, Turbidity,T,T-P,o-PO <sub>4</sub> ,NH <sub>3</sub> 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<br>ALS Environmental - Vancouver | Water  |                      | Sample preparation for Preserved Nutrients Water Quality Analysis.   |
| Preparation for Dissolved Organic Carbon for Combustion |  | EP358<br>ALS Environmental - Vancouver | Water  | APHA 5310 B (mod)    | Preparation for Dissolved Organic Carbon   |
| Digestion for Total Nitrogen in water                   |  | EP366<br>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<br>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<br><br>ALS Environmental -<br>Vancouver | Water  | APHA 3030B       | Water samples are filtered (0.45 um), and preserved with HNO3. |
| Dissolved Mercury Water Filtration |  | EP509<br><br>ALS Environmental -<br>Vancouver | Water  | APHA 3030B       | Water samples are filtered (0.45 um), and preserved with HCl.  |

## QUALITY CONTROL REPORT

|                         |   |                         |                                 |
|-------------------------|---|-------------------------|---------------------------------|
| Work Order              | : VA24C1105                             | Page                    | : 1 of 18                       |
| Client                  | : Triton Environmental Consultants Ltd. | Laboratory              | : ALS Environmental - Vancouver |
| Contact                 |   | Account Manager         |                                 |
| Address                 |   | Address                 |                                 |
| Telephone               | : ----                                  | Telephone               |                                 |
| Project                 | : 11964                                 | Date Samples Received   | : 20-Aug-2024 17:10             |
| PO                      | : 11964-Task20-Phase3c-4c               | Date Analysis Commenced | : 20-Aug-2024                   |
| C-O-C number            | : ----                                  | Issue Date              | : 28-Aug-2024 14:47             |
| 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                               |
|-------------|--|---|
|             | Lab Assistant                              | Vancouver Metals, Burnaby, British Columbia         |
|             | Analyst                                    | Vancouver Metals, Burnaby, British Columbia         |
|             | Supervisor - Metals Prep & Mercury         | Vancouver Metals, Burnaby, British Columbia         |
|             | Production Manager, Environmental          | Waterloo Inorganics, Waterloo, Ontario              |
|             | Production Manager, Environmental          | Waterloo Metals, Waterloo, Ontario                  |
|             | Supervisor - Inorganic                     | Vancouver Inorganics, Burnaby, British Columbia     |
|             | Lab Analyst                                | Vancouver Metals, Burnaby, British Columbia         |
|             | Lab Assistant                              | Vancouver Inorganics, Burnaby, British Columbia     |
|             | Account Manager Assistant                  | Vancouver Administration, Burnaby, British Columbia |
|             | Supervisor - Water Quality Instrumentation | Vancouver Inorganics, Burnaby, British Columbia     |
|             | Analyst- General                           | 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 |
| <b>Physical Tests (QC Lot: 1607345)</b>             |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| VA24C1109-001                                       | Anonymous        | Alkalinity, total (as CaCO <sub>3</sub> ) | ----       | E290       | 1.0    | mg/L | 15.0            | 14.9             | 0.673%               | 20%              | ----      |
| <b>Physical Tests (QC Lot: 1617384)</b>             |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| KS2403379-001                                       | Anonymous        | Solids, total suspended [TSS]             | ----       | E160       | 3.0    | mg/L | <3.0            | <3.0             | 0                    | Diff <2x LOR     | ----      |
| <b>Physical Tests (QC Lot: 1617393)</b>             |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| KS2403379-001                                       | Anonymous        | Solids, total dissolved [TDS]             | ----       | E162       | 20     | mg/L | 2420            | 2290             | 5.69%                | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 1607076)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0742-001                                       | Anonymous        | Nitrogen, total                           | 7727-37-9  | E366       | 0.030  | mg/L | 0.119           | 0.119            | 0.0002               | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607077)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0742-001                                       | Anonymous        | Phosphorus, total                         | 7723-14-0  | E372-U     | 0.0020 | mg/L | 0.0049          | 0.0049           | 0.00002              | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607078)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0742-001                                       | Anonymous        | Ammonia, total (as N)                     | 7664-41-7  | E298       | 0.0050 | mg/L | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607348)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Fluoride                                  | 16984-48-8 | E235.F     | 0.020  | mg/L | 0.055           | 0.056            | 0.001                | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607349)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Chloride                                  | 16887-00-6 | E235.Cl    | 0.50   | mg/L | 0.88            | 0.89             | 0.01                 | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607350)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Bromide                                   | 24959-67-9 | E235.Br-L  | 0.050  | mg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607351)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Nitrate (as N)                            | 14797-55-8 | E235.NO3-L | 0.0050 | mg/L | 0.442           | 0.452            | 2.07%                | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 1607352)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Nitrite (as N)                            | 14797-65-0 | E235.NO2-L | 0.0010 | mg/L | 0.0015          | 0.0014           | 0.00006              | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1607353)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| VA24C1097-001                                       | Anonymous        | Sulfate (as SO <sub>4</sub> )             | 14808-79-8 | E235.SO4   | 0.30   | mg/L | 18.5            | 19.1             | 3.26%                | 20%              | ----      |
| <b>Anions and Nutrients (QC Lot: 1615323)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| VA24C0978-001                                       | Anonymous        | Phosphorus, total                         | 7723-14-0  | E372-U     | 0.0020 | mg/L | 0.0030          | 0.0029           | 0.0002               | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1615325)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| KS2403311-001                                       | Anonymous        | Ammonia, total (as N)                     | 7664-41-7  | E298       | 0.500  | mg/L | 4.80            | 4.64             | 0.158                | Diff <2x LOR     | ----      |
| <b>Anions and Nutrients (QC Lot: 1615326)</b>       |                  |   |            |            |        |      |                 |                  |                      |                  |           |
| KS2403311-001                                       | Anonymous        | Nitrogen, total                           | 7727-37-9  | E366       | 0.600  | mg/L | 5.71            | 5.81             | 0.107                | Diff <2x LOR     | ----      |
| <b>Organic / Inorganic Carbon (QC Lot: 1607079)</b> |                  |   |            |            |        |      |                 |                  |                      |                  |           |



| 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 |
| <b>Organic / Inorganic Carbon (QC Lot: 1607079) - continued</b> |                  |                                 |            |        |                                   |      |                 |                  |                      |                  |           |
| VA24C0742-001   | Anonymous        | Carbon, dissolved organic [DOC] | ----       | E358-L | 0.50                              | mg/L | 2.01            | 2.15             | 0.15                 | Diff <2x LOR     | ----      |
| <b>Organic / Inorganic Carbon (QC Lot: 1617547)</b>             |                  |                                 |            |        |                                   |      |                 |                  |                      |                  |           |
| VA24C0978-001   | Anonymous        | Carbon, dissolved organic [DOC] | ----       | E358-L | 0.50                              | mg/L | 2.42            | 2.50             | 0.07                 | Diff <2x LOR     | ----      |
| <b>Total Sulfides (QC Lot: 1614424)</b>                         |                  |                                 |            |        |                                   |      |                 |                  |                      |                  |           |
| EO2407181-001   | Anonymous        | Sulfide, total (as S)           | 18496-25-8 | E395   | 0.0015                            | mg/L | <0.0015         | <0.0015          | 0                    | Diff <2x LOR     | ----      |
| <b>Total Metals (QC Lot: 1607119)</b>                           |                  |                                 |            |        |                                   |      |                 |                  |                      |                  |           |
| FJ2402452-017   | Anonymous        | Aluminum, total                 | 7429-90-5  | E420   | 0.0030                            | mg/L | <0.0030         | <0.0030          | 0                    | Diff <2x LOR     | ----      |
|   |                  | Antimony, total                 | 7440-36-0  | E420   | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ----      |
|   |                  | Arsenic, total                  | 7440-38-2  | E420   | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ----      |
|   |                  | Barium, total                   | 7440-39-3  | E420   | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ----      |
|   |                  | 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 | <0.010          | <0.010           | 0                    | Diff <2x LOR     | ----      |
|   |                  | Cadmium, total                  | 7440-43-9  | E420   | 0.0000050                         | mg/L | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ----      |
|   |                  | Calcium, total                  | 7440-70-2  | E420   | 0.050                             | mg/L | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|   |                  | 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 | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                  | Cobalt, total                   | 7440-48-4  | E420   | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | 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 | <0.010          | <0.010           | 0                    | 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 | <0.0010         | <0.0010          | 0                    | Diff <2x LOR     | ----      |
|   |                  | Magnesium, total                | 7439-95-4  | E420   | 0.0050                            | mg/L | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ----      |
|   |                  | Manganese, total                | 7439-96-5  | E420   | 0.00010                           | mg/L | <0.00010        | <0.00010         | 0                    | Diff <2x LOR     | ----      |
|   |                  | Molybdenum, total               | 7439-98-7  | E420   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|   |                  | Nickel, total                   | 7440-02-0  | E420   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ----      |
|   |                  | 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 | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|   |                  | Rubidium, total                 | 7440-17-7  | E420   | 0.00020                           | mg/L | <0.00020        | <0.00020         | 0                    | Diff <2x LOR     | ----      |
|   |                  | Selenium, total                 | 7782-49-2  | E420   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ----      |
|   |                  | Silicon, total                  | 7440-21-3  | E420   | 0.10                              | mg/L | <0.10           | <0.10            | 0                    | Diff <2x LOR     | ----      |
|   |                  | 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 | <0.050          | <0.050           | 0                    | Diff <2x LOR     | ----      |
|   |                  | Strontium, total                | 7440-24-6  | E420   | 0.00020                           | mg/L | <0.00020        | <0.00020         | 0                    | 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 |
| <b>Total Metals (QC Lot: 1607119) - continued</b> |                  |                      |            |        |                                   |      |                 |                  |                      |                  |           |
| FJ2402452-017                                     | Anonymous        | Sulfur, total        | 7704-34-9  | E420   | 0.50                              | mg/L | <0.50           | <0.50            | 0                    | Diff <2x LOR     | ---       |
|   |                  | 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   | 0.000010                          | mg/L | <0.000010       | <0.000010        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Tin, total           | 7440-31-5  | E420   | 0.000010                          | mg/L | <0.000010       | <0.000010        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Titanium, total      | 7440-32-6  | E420   | 0.000030                          | mg/L | <0.000030       | <0.000030        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Tungsten, total      | 7440-33-7  | E420   | 0.000010                          | mg/L | <0.000010       | <0.000010        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Uranium, total       | 7440-61-1  | E420   | 0.000010                          | mg/L | <0.000010       | <0.000010        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Vanadium, total      | 7440-62-2  | E420   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Zinc, total          | 7440-66-6  | E420   | 0.000030                          | mg/L | <0.000030       | <0.000030        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Zirconium, total     | 7440-67-7  | E420   | 0.000020                          | mg/L | <0.000020       | <0.000020        | 0                    | Diff <2x LOR     | ---       |
| <b>Total Metals (QC Lot: 1610399)</b>             |                  |                      |            |        |                                   |      |                 |                  |                      |                  |           |
| VA24C0638-001                                     | Anonymous        | Mercury, total       | 7439-97-6  | E508   | 0.0000050                         | mg/L | 0.0000050       | 0.0000056        | 0.0000006            | Diff <2x LOR     | ---       |
| <b>Total Metals (QC Lot: 1615360)</b>             |                  |                      |            |        |                                   |      |                 |                  |                      |                  |           |
| KS2403370-001                                     | Anonymous        | Mercury, total       | 7439-97-6  | E508   | 0.0000050                         | mg/L | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ---       |
| <b>Dissolved Metals (QC Lot: 1607992)</b>         |                  |                      |            |        |                                   |      |                 |                  |                      |                  |           |
| VA24C0970-001                                     | Anonymous        | Aluminum, dissolved  | 7429-90-5  | E421   | 0.00050                           | mg/L | 0.0177          | 0.0162           | 0.0015               | Diff <2x LOR     | ---       |
|   |                  | Antimony, dissolved  | 7440-36-0  | E421   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Arsenic, dissolved   | 7440-38-2  | E421   | 0.000050                          | mg/L | 0.00512         | 0.00511          | 0.215%               | 20%              | ---       |
|   |                  | Barium, dissolved    | 7440-39-3  | E421   | 0.000050                          | mg/L | 0.160           | 0.159            | 0.414%               | 20%              | ---       |
|   |                  | Beryllium, dissolved | 7440-41-7  | E421   | 0.0000100                         | mg/L | <0.0000100      | <0.0000100       | 0                    | Diff <2x LOR     | ---       |
|   |                  | Bismuth, dissolved   | 7440-69-9  | E421   | 0.0000250                         | mg/L | <0.0000250      | <0.0000250       | 0                    | Diff <2x LOR     | ---       |
|   |                  | Boron, dissolved     | 7440-42-8  | E421   | 0.050                             | mg/L | 1.34            | 1.37             | 2.46%                | 20%              | ---       |
|   |                  | Cadmium, dissolved   | 7440-43-9  | E421   | 0.00000250                        | mg/L | <0.00000250     | <0.00000250      | 0                    | Diff <2x LOR     | ---       |
|   |                  | Calcium, dissolved   | 7440-70-2  | E421   | 0.250                             | mg/L | 32.0            | 33.3             | 3.98%                | 20%              | ---       |
|   |                  | Cesium, dissolved    | 7440-46-2  | E421   | 0.0000050                         | mg/L | <0.0000050      | <0.0000050       | 0                    | Diff <2x LOR     | ---       |
|   |                  | Chromium, dissolved  | 7440-47-3  | E421   | 0.00250                           | mg/L | 0.00397         | 0.00423          | 0.00026              | Diff <2x LOR     | ---       |
|   |                  | Cobalt, dissolved    | 7440-48-4  | E421   | 0.000050                          | mg/L | 0.00534         | 0.00533          | 0.176%               | 20%              | ---       |
|   |                  | Copper, dissolved    | 7440-50-8  | E421   | 0.00100                           | mg/L | <0.00100        | <0.00100         | 0                    | Diff <2x LOR     | ---       |
|   |                  | Iron, dissolved      | 7439-89-6  | E421   | 0.050                             | mg/L | 17.5            | 17.8             | 1.60%                | 20%              | ---       |
|   |                  | Lead, dissolved      | 7439-92-1  | E421   | 0.000250                          | mg/L | <0.000250       | <0.000250        | 0                    | Diff <2x LOR     | ---       |
|   |                  | Lithium, dissolved   | 7439-93-2  | E421   | 0.0050                            | mg/L | 0.0168          | 0.0173           | 0.0005               | Diff <2x LOR     | ---       |
|   |                  | Magnesium, dissolved | 7439-95-4  | E421   | 0.0250                            | mg/L | 83.7            | 84.6             | 1.08%                | 20%              | ---       |
|   |                  | Manganese, dissolved | 7439-96-5  | E421   | 0.00050                           | mg/L | 0.586           | 0.598            | 2.14%                | 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 |  |
| <b>Dissolved Metals (QC Lot: 1607992) - continued</b> |                  |                                     |            |        |                                   |      |                 |                  |                      |                  |           |  |
| VA24C0970-001   | Anonymous        | Molybdenum, dissolved               | 7439-98-7  | E421   | 0.000250                          | mg/L | 0.00155         | 0.00162          | 0.000069             | Diff <2x LOR     | ---       |  |
|   |                  | Nickel, dissolved                   | 7440-02-0  | E421   | 0.00250                           | mg/L | 0.00448         | 0.00443          | 0.00005              | Diff <2x LOR     | ---       |  |
|   |                  | Phosphorus, dissolved               | 7723-14-0  | E421   | 0.250                             | mg/L | 4.11            | 3.96             | 3.75%                | 20%              | ---       |  |
|   |                  | Potassium, dissolved                | 7440-09-7  | E421   | 0.250                             | mg/L | 41.1            | 41.1             | 0.0756%              | 20%              | ---       |  |
|   |                  | Rubidium, dissolved                 | 7440-17-7  | E421   | 0.00100                           | mg/L | 0.00741         | 0.00737          | 0.00004              | Diff <2x LOR     | ---       |  |
|   |                  | Selenium, dissolved                 | 7782-49-2  | E421   | 0.000250                          | mg/L | <0.000250       | <0.000250        | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Silicon, dissolved                  | 7440-21-3  | E421   | 0.250                             | mg/L | 27.6            | 27.2             | 1.27%                | 20%              | ---       |  |
|   |                  | Silver, dissolved                   | 7440-22-4  | E421   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Sodium, dissolved                   | 7440-23-5  | E421   | 0.250                             | mg/L | 789             | 784              | 0.705%               | 20%              | ---       |  |
|   |                  | Strontium, dissolved                | 7440-24-6  | E421   | 0.00100                           | mg/L | 0.423           | 0.450            | 6.15%                | 20%              | ---       |  |
|   |                  | Sulfur, dissolved                   | 7704-34-9  | E421   | 2.50                              | mg/L | <2.50           | <2.50            | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Tellurium, dissolved                | 13494-80-9 | E421   | 0.00100                           | mg/L | <0.00100        | <0.00100         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Thallium, dissolved                 | 7440-28-0  | E421   | 0.000050                          | mg/L | <0.000050       | <0.000050        | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Thorium, dissolved                  | 7440-29-1  | E421   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Tin, dissolved                      | 7440-31-5  | E421   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Titanium, dissolved                 | 7440-32-6  | E421   | 0.00150                           | mg/L | 0.0132          | 0.0138           | 0.00058              | Diff <2x LOR     | ---       |  |
|   |                  | Tungsten, dissolved                 | 7440-33-7  | E421   | 0.00050                           | mg/L | <0.00050        | <0.00050         | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Uranium, dissolved                  | 7440-61-1  | E421   | 0.000050                          | mg/L | 0.000114        | 0.000126         | 0.000012             | Diff <2x LOR     | ---       |  |
|   |                  | Vanadium, dissolved                 | 7440-62-2  | E421   | 0.00250                           | mg/L | 0.0106          | 0.0108           | 0.00021              | Diff <2x LOR     | ---       |  |
|   |                  | Zinc, dissolved                     | 7440-66-6  | E421   | 0.0050                            | mg/L | <0.0050         | <0.0050          | 0                    | Diff <2x LOR     | ---       |  |
|   |                  | Zirconium, dissolved                | 7440-67-7  | E421   | 0.00100                           | mg/L | 0.00522         | 0.00563          | 0.00041              | Diff <2x LOR     | ---       |  |
| <b>Dissolved Metals (QC Lot: 1610589)</b>             |                  |                                     |            |        |                                   |      |                 |                  |                      |                  |           |  |
| VA24C0781-003   | Anonymous        | Mercury, dissolved                  | 7439-97-6  | E509   | 0.0000050                         | mg/L | <0.0050 µg/L    | <0.0000050       | 0                    | Diff <2x LOR     | ---       |  |
| <b>Speciated Metals (QC Lot: 1612282)</b>             |                  |                                     |            |        |                                   |      |                 |                  |                      |                  |           |  |
| VA24C0997-001   | Anonymous        | Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532   | 0.00050                           | mg/L | <0.50 µg/L      | <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 |
|--|------------|------------|-------|------|---------|-----------|
| <b>Physical Tests (QCLot: 1607345)</b>             |            |            |       |      |         |           |
| Alkalinity, total (as CaCO <sub>3</sub> )          | ---        | E290       | 1     | mg/L | <1.0    | ---       |
| <b>Physical Tests (QCLot: 1617384)</b>             |            |            |       |      |         |           |
| Solids, total suspended [TSS]                      | ---        | E160       | 3     | mg/L | <3.0    | ---       |
| <b>Physical Tests (QCLot: 1617393)</b>             |            |            |       |      |         |           |
| Solids, total dissolved [TDS]                      | ---        | E162       | 10    | mg/L | <10     | ---       |
| <b>Anions and Nutrients (QCLot: 1607076)</b>       |            |            |       |      |         |           |
| Nitrogen, total                                    | 7727-37-9  | E366       | 0.03  | mg/L | <0.030  | ---       |
| <b>Anions and Nutrients (QCLot: 1607077)</b>       |            |            |       |      |         |           |
| Phosphorus, total                                  | 7723-14-0  | E372-U     | 0.002 | mg/L | <0.0020 | ---       |
| <b>Anions and Nutrients (QCLot: 1607078)</b>       |            |            |       |      |         |           |
| Ammonia, total (as N)                              | 7664-41-7  | E298       | 0.005 | mg/L | <0.0050 | ---       |
| <b>Anions and Nutrients (QCLot: 1607348)</b>       |            |            |       |      |         |           |
| Fluoride   | 16984-48-8 | E235.F     | 0.02  | mg/L | <0.020  | ---       |
| <b>Anions and Nutrients (QCLot: 1607349)</b>       |            |            |       |      |         |           |
| Chloride   | 16887-00-6 | E235.Cl    | 0.5   | mg/L | <0.50   | ---       |
| <b>Anions and Nutrients (QCLot: 1607350)</b>       |            |            |       |      |         |           |
| Bromide  | 24959-67-9 | E235.Br-L  | 0.05  | mg/L | <0.050  | ---       |
| <b>Anions and Nutrients (QCLot: 1607351)</b>       |            |            |       |      |         |           |
| Nitrate (as N)                                     | 14797-55-8 | E235.NO3-L | 0.005 | mg/L | <0.0050 | ---       |
| <b>Anions and Nutrients (QCLot: 1607352)</b>       |            |            |       |      |         |           |
| Nitrite (as N)                                     | 14797-65-0 | E235.NO2-L | 0.001 | mg/L | <0.0010 | ---       |
| <b>Anions and Nutrients (QCLot: 1607353)</b>       |            |            |       |      |         |           |
| Sulfate (as SO <sub>4</sub> )                      | 14808-79-8 | E235.SO4   | 0.3   | mg/L | <0.30   | ---       |
| <b>Anions and Nutrients (QCLot: 1615323)</b>       |            |            |       |      |         |           |
| Phosphorus, total                                  | 7723-14-0  | E372-U     | 0.002 | mg/L | <0.0020 | ---       |
| <b>Anions and Nutrients (QCLot: 1615325)</b>       |            |            |       |      |         |           |
| Ammonia, total (as N)                              | 7664-41-7  | E298       | 0.005 | mg/L | <0.0050 | ---       |
| <b>Anions and Nutrients (QCLot: 1615326)</b>       |            |            |       |      |         |           |
| Nitrogen, total                                    | 7727-37-9  | E366       | 0.03  | mg/L | <0.030  | ---       |
| <b>Organic / Inorganic Carbon (QCLot: 1607079)</b> |            |            |       |      |         |           |
| Carbon, dissolved organic [DOC]                    | ---        | E358-L     | 0.5   | mg/L | <0.50   | ---       |
| <b>Organic / Inorganic Carbon (QCLot: 1617547)</b> |            |            |       |      |         |           |

Sub-Matrix: Water

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Organic / Inorganic Carbon (QCLot: 1617547) - continued</b> |            |        |          |      |            |           |
| Carbon, dissolved organic [DOC]                                | ----       | E358-L | 0.5      | mg/L | <0.50      | ---       |
| <b>Total Sulfides (QCLot: 1614424)</b>                         |            |        |          |      |            |           |
| Sulfide, total (as S)  | 18496-25-8 | E395   | 0.0015   | mg/L | <0.0015    | ---       |
| <b>Total Metals (QCLot: 1607119)</b>                           |            |        |          |      |            |           |
| 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   | ---       |
| 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  | ---       |



Sub-Matrix: Water

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Total Metals (QCLot: 1607119) - continued</b> |            |        |          |      |            |           |
| 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   | ---       |
| <b>Total Metals (QC Lot: 1610399)</b>            |            |        |          |      |            |           |
| Mercury, total                                   | 7439-97-6  | E508   | 0.000005 | mg/L | <0.0000050 | ---       |
| <b>Total Metals (QC Lot: 1615360)</b>            |            |        |          |      |            |           |
| Mercury, total                                   | 7439-97-6  | E508   | 0.000005 | mg/L | <0.0000050 | ---       |
| <b>Dissolved Metals (QC Lot: 1607992)</b>        |            |        |          |      |            |           |
| 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     | ---       |



Sub-Matrix: Water

| Analyte  | CAS Number | Method | LOR      | Unit | Result     | Qualifier |
|--|------------|--------|----------|------|------------|-----------|
| <b>Dissolved Metals (QCLot: 1607992) - continued</b> |            |        |          |      |            |           |
| 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   | ---       |
| 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   | ---       |
| <b>Dissolved Metals (QCLot: 1610589)</b>             |            |        |          |      |            |           |
| Mercury, dissolved                                   | 7439-97-6  | E509   | 0.000005 | mg/L | <0.0000050 | ---       |
| <b>Speciated Metals (QCLot: 1612282)</b>             |            |        |          |      |            |           |
| 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 |
| <b>Physical Tests (QCLot: 1607345)</b>              |  |            |              |                     |                      |      |      |      |           |
| Alkalinity, total (as CaCO <sub>3</sub> )           | ---                                    | E290       | 1            | mg/L                | 500 mg/L             | 104  | 85.0 | 115  | ---       |
| <b>Physical Tests (QC Lot: 1617384)</b>             |  |            |              |                     |                      |      |      |      |           |
| Solids, total suspended [TSS]                       | ---                                    | E160       | 3            | mg/L                | 150 mg/L             | 96.7 | 85.0 | 115  | ---       |
| <b>Physical Tests (QC Lot: 1617393)</b>             |  |            |              |                     |                      |      |      |      |           |
| Solids, total dissolved [TDS]                       | ---                                    | E162       | 10           | mg/L                | 1000 mg/L            | 95.6 | 85.0 | 115  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607076)</b>       |  |            |              |                     |                      |      |      |      |           |
| Nitrogen, total                                     | 7727-37-9                              | E366       | 0.03         | mg/L                | 0.5 mg/L             | 98.2 | 75.0 | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607077)</b>       |  |            |              |                     |                      |      |      |      |           |
| Phosphorus, total                                   | 7723-14-0                              | E372-U     | 0.002        | mg/L                | 0.05 mg/L            | 93.5 | 80.0 | 120  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607078)</b>       |  |            |              |                     |                      |      |      |      |           |
| Ammonia, total (as N)                               | 7664-41-7                              | E298       | 0.005        | mg/L                | 0.2 mg/L             | 97.2 | 85.0 | 115  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607348)</b>       |  |            |              |                     |                      |      |      |      |           |
| Fluoride  | 16984-48-8                             | E235.F     | 0.02         | mg/L                | 1 mg/L               | 101  | 90.0 | 110  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607349)</b>       |  |            |              |                     |                      |      |      |      |           |
| Chloride  | 16887-00-6                             | E235.Cl    | 0.5          | mg/L                | 100 mg/L             | 101  | 90.0 | 110  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607350)</b>       |  |            |              |                     |                      |      |      |      |           |
| Bromide   | 24959-67-9                             | E235.Br-L  | 0.05         | mg/L                | 0.5 mg/L             | 99.4 | 85.0 | 115  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607351)</b>       |  |            |              |                     |                      |      |      |      |           |
| Nitrate (as N)                                      | 14797-55-8                             | E235.NO3-L | 0.005        | mg/L                | 2.5 mg/L             | 101  | 90.0 | 110  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607352)</b>       |  |            |              |                     |                      |      |      |      |           |
| Nitrite (as N)                                      | 14797-65-0                             | E235.NO2-L | 0.001        | mg/L                | 0.5 mg/L             | 98.6 | 90.0 | 110  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607353)</b>       |  |            |              |                     |                      |      |      |      |           |
| Sulfate (as SO <sub>4</sub> )                       | 14808-79-8                             | E235.SO4   | 0.3          | mg/L                | 100 mg/L             | 103  | 90.0 | 110  | ---       |
| <b>Anions and Nutrients (QC Lot: 1615323)</b>       |  |            |              |                     |                      |      |      |      |           |
| Phosphorus, total                                   | 7723-14-0                              | E372-U     | 0.002        | mg/L                | 0.05 mg/L            | 92.4 | 80.0 | 120  | ---       |
| <b>Anions and Nutrients (QC Lot: 1615325)</b>       |  |            |              |                     |                      |      |      |      |           |
| Ammonia, total (as N)                               | 7664-41-7                              | E298       | 0.005        | mg/L                | 0.2 mg/L             | 99.3 | 85.0 | 115  | ---       |
| <b>Anions and Nutrients (QC Lot: 1615326)</b>       |  |            |              |                     |                      |      |      |      |           |
| Nitrogen, total                                     | 7727-37-9                              | E366       | 0.03         | mg/L                | 0.5 mg/L             | 101  | 75.0 | 125  | ---       |
| <b>Organic / Inorganic Carbon (QC Lot: 1607079)</b> |  |            |              |                     |                      |      |      |      |           |



| Sub-Matrix: Water  |            |        |          |      | Laboratory Control Sample (LCS) Report |              |                     |      |           |
|--|------------|--------|----------|------|--|--------------|---------------------|------|-----------|
|  |            |        |          |      | Spike                                  | Recovery (%) | Recovery Limits (%) |      |           |
| Analyte  | CAS Number | Method | LOR      | Unit | Target Concentration                   | LCS          | Low                 | High | Qualifier |
| <b>Organic / Inorganic Carbon (QCLot: 1607079) - continued</b> |            |        |          |      |  |              |                     |      |           |
| Carbon, dissolved organic [DOC]                                | ---        | E358-L | 0.5      | mg/L | 8.57 mg/L                              | 99.3         | 80.0                | 120  | ---       |
| <b>Organic / Inorganic Carbon (QCLot: 1617547)</b>             |            |        |          |      |  |              |                     |      |           |
| Carbon, dissolved organic [DOC]                                | ---        | E358-L | 0.5      | mg/L | 8.57 mg/L                              | 95.2         | 80.0                | 120  | ---       |
| <b>Total Sulfides (QCLot: 1614424)</b>                         |            |        |          |      |  |              |                     |      |           |
| Sulfide, total (as S)  | 18496-25-8 | E395   | 0.0015   | mg/L | 0.08 mg/L                              | 108          | 80.0                | 120  | ---       |
| <b>Total Metals (QCLot: 1607119)</b>                           |            |        |          |      |  |              |                     |      |           |
| Aluminum, total  | 7429-90-5  | E420   | 0.003    | mg/L | 2 mg/L                                 | 95.9         | 80.0                | 120  | ---       |
| Antimony, total  | 7440-36-0  | E420   | 0.0001   | mg/L | 1 mg/L                                 | 95.1         | 80.0                | 120  | ---       |
| Arsenic, total   | 7440-38-2  | E420   | 0.0001   | mg/L | 1 mg/L                                 | 107          | 80.0                | 120  | ---       |
| Barium, total  | 7440-39-3  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 102          | 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                                 | 95.9         | 80.0                | 120  | ---       |
| Boron, total   | 7440-42-8  | E420   | 0.01     | mg/L | 1 mg/L                                 | 91.9         | 80.0                | 120  | ---       |
| Cadmium, total   | 7440-43-9  | E420   | 0.000005 | mg/L | 0.1 mg/L                               | 104          | 80.0                | 120  | ---       |
| Calcium, total   | 7440-70-2  | E420   | 0.05     | mg/L | 50 mg/L                                | 99.8         | 80.0                | 120  | ---       |
| Cesium, total  | 7440-46-2  | E420   | 0.00001  | mg/L | 0.05 mg/L                              | 99.5         | 80.0                | 120  | ---       |
| Chromium, total  | 7440-47-3  | E420   | 0.0005   | mg/L | 0.25 mg/L                              | 104          | 80.0                | 120  | ---       |
| Cobalt, total  | 7440-48-4  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 101          | 80.0                | 120  | ---       |
| Copper, total  | 7440-50-8  | E420   | 0.0005   | mg/L | 0.25 mg/L                              | 103          | 80.0                | 120  | ---       |
| Iron, total  | 7439-89-6  | E420   | 0.01     | mg/L | 1 mg/L                                 | 101          | 80.0                | 120  | ---       |
| Lead, total  | 7439-92-1  | E420   | 0.00005  | mg/L | 0.5 mg/L                               | 99.5         | 80.0                | 120  | ---       |
| Lithium, total   | 7439-93-2  | E420   | 0.001    | mg/L | 0.25 mg/L                              | 97.8         | 80.0                | 120  | ---       |
| Magnesium, total   | 7439-95-4  | E420   | 0.005    | mg/L | 50 mg/L                                | 101          | 80.0                | 120  | ---       |
| Manganese, total   | 7439-96-5  | E420   | 0.0001   | mg/L | 0.25 mg/L                              | 107          | 80.0                | 120  | ---       |
| Molybdenum, total  | 7439-98-7  | E420   | 0.00005  | mg/L | 0.25 mg/L                              | 99.8         | 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                                | 101          | 80.0                | 120  | ---       |
| Potassium, total   | 7440-09-7  | E420   | 0.05     | mg/L | 50 mg/L                                | 101          | 80.0                | 120  | ---       |
| Rubidium, total  | 7440-17-7  | E420   | 0.0002   | mg/L | 0.1 mg/L                               | 99.3         | 80.0                | 120  | ---       |
| Selenium, total  | 7782-49-2  | E420   | 0.00005  | mg/L | 1 mg/L                                 | 96.6         | 80.0                | 120  | ---       |
| Silicon, total   | 7440-21-3  | E420   | 0.1      | mg/L | 10 mg/L                                | 103          | 80.0                | 120  | ---       |
| Silver, total  | 7440-22-4  | E420   | 0.00001  | mg/L | 0.1 mg/L                               | 92.1         | 80.0                | 120  | ---       |
| Sodium, total  | 7440-23-5  | E420   | 0.05     | mg/L | 50 mg/L                                | 108          | 80.0                | 120  | ---       |
| Strontium, total   | 7440-24-6  | E420   | 0.0002   | mg/L | 0.25 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 |  |
| <b>Total Metals (QCLot: 1607119) - continued</b> |            |        |          |      |  |              |                     |      |           |  |
| Sulfur, total                                    | 7704-34-9  | E420   | 0.5      | mg/L | 50 mg/L                                | 92.8         | 80.0                | 120  | ---       |  |
| Tellurium, total                                 | 13494-80-9 | E420   | 0.0002   | mg/L | 0.1 mg/L                               | 96.7         | 80.0                | 120  | ---       |  |
| Thallium, total                                  | 7440-28-0  | E420   | 0.00001  | mg/L | 1 mg/L                                 | 99.9         | 80.0                | 120  | ---       |  |
| Thorium, total                                   | 7440-29-1  | E420   | 0.0001   | mg/L | 0.1 mg/L                               | 98.1         | 80.0                | 120  | ---       |  |
| Tin, total                                       | 7440-31-5  | E420   | 0.0001   | mg/L | 0.5 mg/L                               | 98.3         | 80.0                | 120  | ---       |  |
| Titanium, total                                  | 7440-32-6  | E420   | 0.0003   | mg/L | 0.25 mg/L                              | 97.8         | 80.0                | 120  | ---       |  |
| Tungsten, total                                  | 7440-33-7  | E420   | 0.0001   | mg/L | 0.1 mg/L                               | 99.1         | 80.0                | 120  | ---       |  |
| Uranium, total                                   | 7440-61-1  | E420   | 0.00001  | mg/L | 0.005 mg/L                             | 104          | 80.0                | 120  | ---       |  |
| 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                               | 101          | 80.0                | 120  | ---       |  |
| Zirconium, total                                 | 7440-67-7  | E420   | 0.0002   | mg/L | 0.1 mg/L                               | 98.2         | 80.0                | 120  | ---       |  |
| <b>Total Metals (QCLot: 1610399)</b>             |            |        |          |      |  |              |                     |      |           |  |
| Mercury, total                                   | 7439-97-6  | E508   | 0.000005 | mg/L | 0 mg/L                                 | 96.2         | 80.0                | 120  | ---       |  |
| <b>Total Metals (QCLot: 1615360)</b>             |            |        |          |      |  |              |                     |      |           |  |
| Mercury, total                                   | 7439-97-6  | E508   | 0.000005 | mg/L | 0 mg/L                                 | 91.1         | 80.0                | 120  | ---       |  |
| <b>Dissolved Metals (QCLot: 1607992)</b>         |            |        |          |      |  |              |                     |      |           |  |
| Aluminum, dissolved                              | 7429-90-5  | E421   | 0.001    | mg/L | 2 mg/L                                 | 96.2         | 80.0                | 120  | ---       |  |
| Antimony, dissolved                              | 7440-36-0  | E421   | 0.0001   | mg/L | 1 mg/L                                 | 98.6         | 80.0                | 120  | ---       |  |
| Arsenic, dissolved                               | 7440-38-2  | E421   | 0.0001   | mg/L | 1 mg/L                                 | 101          | 80.0                | 120  | ---       |  |
| Barium, dissolved                                | 7440-39-3  | E421   | 0.0001   | mg/L | 0.25 mg/L                              | 105          | 80.0                | 120  | ---       |  |
| Beryllium, dissolved                             | 7440-41-7  | E421   | 0.00002  | mg/L | 0.1 mg/L                               | 98.8         | 80.0                | 120  | ---       |  |
| Bismuth, dissolved                               | 7440-69-9  | E421   | 0.00005  | mg/L | 1 mg/L                                 | 96.7         | 80.0                | 120  | ---       |  |
| Boron, dissolved                                 | 7440-42-8  | E421   | 0.01     | mg/L | 1 mg/L                                 | 93.2         | 80.0                | 120  | ---       |  |
| Cadmium, dissolved                               | 7440-43-9  | E421   | 0.000005 | mg/L | 0.1 mg/L                               | 98.9         | 80.0                | 120  | ---       |  |
| Calcium, dissolved                               | 7440-70-2  | E421   | 0.05     | mg/L | 50 mg/L                                | 100          | 80.0                | 120  | ---       |  |
| Cesium, dissolved                                | 7440-46-2  | E421   | 0.00001  | mg/L | 0.05 mg/L                              | 97.7         | 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                              | 96.5         | 80.0                | 120  | ---       |  |
| Copper, dissolved                                | 7440-50-8  | E421   | 0.0002   | mg/L | 0.25 mg/L                              | 97.2         | 80.0                | 120  | ---       |  |
| Iron, dissolved                                  | 7439-89-6  | E421   | 0.01     | mg/L | 1 mg/L                                 | 89.7         | 80.0                | 120  | ---       |  |
| Lead, dissolved                                  | 7439-92-1  | E421   | 0.00005  | mg/L | 0.5 mg/L                               | 97.6         | 80.0                | 120  | ---       |  |
| Lithium, dissolved                               | 7439-93-2  | E421   | 0.001    | mg/L | 0.25 mg/L                              | 96.2         | 80.0                | 120  | ---       |  |
| Magnesium, dissolved                             | 7439-95-4  | E421   | 0.005    | mg/L | 50 mg/L                                | 93.3         | 80.0                | 120  | ---       |  |
| Manganese, dissolved                             | 7439-96-5  | E421   | 0.0001   | mg/L | 0.25 mg/L                              | 99.4         | 80.0                | 120  | ---       |  |
| Molybdenum, dissolved                            | 7439-98-7  | E421   | 0.00005  | mg/L | 0.25 mg/L                              | 103          | 80.0                | 120  | ---       |  |



Sub-Matrix: Water

| Analyte   | CAS Number | Method | LOR     | Unit | Laboratory Control Sample (LCS) Report |              |                     |     |           |
|---|------------|--------|---------|------|--|--------------|---------------------|-----|-----------|
|   |            |        |         |      | Spike                                  | Recovery (%) | Recovery Limits (%) |     | Qualifier |
| <b>Dissolved Metals (QC Lot: 1607992) - continued</b> |            |        |         |      |  |              |                     |     |           |
| Nickel, dissolved                                     | 7440-02-0  | E421   | 0.0005  | mg/L | 0.5 mg/L                               | 98.2         | 80.0                | 120 | ---       |
| Phosphorus, dissolved                                 | 7723-14-0  | E421   | 0.05    | mg/L | 10 mg/L                                | 100          | 80.0                | 120 | ---       |
| Potassium, dissolved                                  | 7440-09-7  | E421   | 0.05    | mg/L | 50 mg/L                                | 96.8         | 80.0                | 120 | ---       |
| Rubidium, dissolved                                   | 7440-17-7  | E421   | 0.0002  | mg/L | 0.1 mg/L                               | 99.0         | 80.0                | 120 | ---       |
| Selenium, dissolved                                   | 7782-49-2  | E421   | 0.00005 | mg/L | 1 mg/L                                 | 98.2         | 80.0                | 120 | ---       |
| Silicon, dissolved                                    | 7440-21-3  | E421   | 0.05    | mg/L | 10 mg/L                                | 104          | 80.0                | 120 | ---       |
| Silver, dissolved                                     | 7440-22-4  | E421   | 0.00001 | mg/L | 0.1 mg/L                               | 94.1         | 80.0                | 120 | ---       |
| Sodium, dissolved                                     | 7440-23-5  | E421   | 0.05    | mg/L | 50 mg/L                                | 101          | 80.0                | 120 | ---       |
| Strontium, dissolved                                  | 7440-24-6  | E421   | 0.0002  | mg/L | 0.25 mg/L                              | 107          | 80.0                | 120 | ---       |
| Sulfur, dissolved                                     | 7704-34-9  | E421   | 0.5     | mg/L | 50 mg/L                                | 83.0         | 80.0                | 120 | ---       |
| 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                                 | 99.7         | 80.0                | 120 | ---       |
| Thorium, dissolved                                    | 7440-29-1  | E421   | 0.0001  | mg/L | 0.1 mg/L                               | 93.3         | 80.0                | 120 | ---       |
| Tin, dissolved  | 7440-31-5  | E421   | 0.0001  | mg/L | 0.5 mg/L                               | 99.8         | 80.0                | 120 | ---       |
| Titanium, dissolved                                   | 7440-32-6  | E421   | 0.0003  | mg/L | 0.25 mg/L                              | 89.6         | 80.0                | 120 | ---       |
| Tungsten, dissolved                                   | 7440-33-7  | E421   | 0.0001  | mg/L | 0.1 mg/L                               | 98.0         | 80.0                | 120 | ---       |
| Uranium, dissolved                                    | 7440-61-1  | E421   | 0.00001 | mg/L | 0.005 mg/L                             | 96.8         | 80.0                | 120 | ---       |
| Vanadium, dissolved                                   | 7440-62-2  | E421   | 0.0005  | mg/L | 0.5 mg/L                               | 98.0         | 80.0                | 120 | ---       |
| Zinc, dissolved                                       | 7440-66-6  | E421   | 0.001   | mg/L | 0.5 mg/L                               | 95.2         | 80.0                | 120 | ---       |
| Zirconium, dissolved                                  | 7440-67-7  | E421   | 0.0002  | mg/L | 0.1 mg/L                               | 99.2         | 80.0                | 120 | ---       |
| Mercury, dissolved                                    | 7439-97-6  | E509   | 0.00005 | mg/L | 0 mg/L                                 | 97.0         | 80.0                | 120 | ---       |
| <b>Speciated Metals (QC Lot: 1612282)</b>             |            |        |         |      |  |              |                     |     |           |
| Chromium, hexavalent [Cr VI], total                   | 18540-29-9 | E532   | 0.0005  | mg/L | 0.025 mg/L                             | 97.5         | 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 |           |
| <b>Anions and Nutrients (QC Lot: 1607076)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C0742-002                                       | Anonymous        | Nitrogen, total                 | 7727-37-9  | E366       | 0.445 mg/L    | 0.4 mg/L  | 111          | 70.0                | 130  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607077)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C0742-002                                       | Anonymous        | Phosphorus, total               | 7723-14-0  | E372-U     | 0.0481 mg/L   | 0.05 mg/L | 96.1         | 70.0                | 130  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607078)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C0742-002                                       | Anonymous        | Ammonia, total (as N)           | 7664-41-7  | E298       | 0.102 mg/L    | 0.1 mg/L  | 102          | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607348)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Fluoride                        | 16984-48-8 | E235.F     | 0.992 mg/L    | 1 mg/L    | 99.2         | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607349)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Chloride                        | 16887-00-6 | E235.Cl    | 99.0 mg/L     | 100 mg/L  | 99.0         | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607350)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Bromide                         | 24959-67-9 | E235.Br-L  | 0.481 mg/L    | 0.5 mg/L  | 96.1         | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607351)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Nitrate (as N)                  | 14797-55-8 | E235.NO3-L | 2.46 mg/L     | 2.5 mg/L  | 98.4         | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607352)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Nitrite (as N)                  | 14797-65-0 | E235.NO2-L | 0.475 mg/L    | 0.5 mg/L  | 95.1         | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1607353)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1097-002                                       | Anonymous        | Sulfate (as SO4)                | 14808-79-8 | E235.SO4   | 98.2 mg/L     | 100 mg/L  | 98.2         | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1615323)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1074-001                                       | Anonymous        | Phosphorus, total               | 7723-14-0  | E372-U     | 0.0509 mg/L   | 0.05 mg/L | 102          | 70.0                | 130  | ---       |
| <b>Anions and Nutrients (QC Lot: 1615325)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| KS2403311-002                                       | Anonymous        | Ammonia, total (as N)           | 7664-41-7  | E298       | ND mg/L       | ---       | ND           | 75.0                | 125  | ---       |
| <b>Anions and Nutrients (QC Lot: 1615326)</b>       |                  |                                 |            |            |               |           |              |                     |      |           |
| KS2403311-002                                       | Anonymous        | Nitrogen, total                 | 7727-37-9  | E366       | ND mg/L       | ---       | ND           | 70.0                | 130  | ---       |
| <b>Organic / Inorganic Carbon (QC Lot: 1607079)</b> |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C0742-002                                       | Anonymous        | Carbon, dissolved organic [DOC] | ----       | E358-L     | 4.85 mg/L     | 5 mg/L    | 97.0         | 70.0                | 130  | ---       |
| <b>Organic / Inorganic Carbon (QC Lot: 1617547)</b> |                  |                                 |            |            |               |           |              |                     |      |           |
| VA24C1105-002                                       | WLNG DS1         | Carbon, dissolved organic [DOC] | ----       | E358-L     | 5.14 mg/L     | 5 mg/L    | 103          | 70.0                | 130  | ----      |
| <b>Total Sulfides (QC Lot: 1614424)</b>             |                  |                                 |            |            |               |           |              |                     |      |           |
| FC2402241-001                                       | Anonymous        | Sulfide, total (as S)           | 18496-25-8 | E395       | 0.244 mg/L    | 0.2 mg/L  | 122          | 75.0                | 125  | ----      |
| <b>Total Metals (QC Lot: 1607119)</b>               |                  |                                 |            |            |               |           |              |                     |      |           |



Sub-Matrix: Water

|   |                  |                   |            |        | Matrix Spike (MS) Report |           |              |                     |      |           |
|---|------------------|-------------------|------------|--------|--------------------------|-----------|--------------|---------------------|------|-----------|
| Laboratory sample ID                              | Client sample ID | Analyte           | CAS Number | Method | Spike                    |           | Recovery (%) | Recovery Limits (%) |      | Qualifier |
|   |                  |                   |            |        | Concentration            | Target    |              | Low                 | High |           |
| <b>Total Metals (QC Lot: 1607119) - continued</b> |                  |                   |            |        |                          |           |              |                     |      |           |
| VA24C1010-001                                     | Anonymous        | Aluminum, total   | 7429-90-5  | E420   | 1.02 mg/L                | 1 mg/L    | 102          | 70.0                | 130  | ---       |
|   |                  | Antimony, total   | 7440-36-0  | E420   | 0.101 mg/L               | 0.1 mg/L  | 101          | 70.0                | 130  | ---       |
|   |                  | Arsenic, total    | 7440-38-2  | E420   | 0.104 mg/L               | 0.1 mg/L  | 104          | 70.0                | 130  | ---       |
|   |                  | Barium, total     | 7440-39-3  | E420   | ND mg/L                  | ---       | ND           | 70.0                | 130  | ---       |
|   |                  | Beryllium, total  | 7440-41-7  | E420   | 0.201 mg/L               | 0.2 mg/L  | 101          | 70.0                | 130  | ---       |
|   |                  | Bismuth, total    | 7440-69-9  | E420   | 0.0459 mg/L              | 0.05 mg/L | 91.8         | 70.0                | 130  | ---       |
|   |                  | Boron, total      | 7440-42-8  | E420   | ND mg/L                  | ---       | ND           | 70.0                | 130  | ---       |
|   |                  | Cadmium, total    | 7440-43-9  | E420   | 0.0203 mg/L              | 0.02 mg/L | 101          | 70.0                | 130  | ---       |
|   |                  | Calcium, total    | 7440-70-2  | E420   | ND mg/L                  | ---       | ND           | 70.0                | 130  | ---       |
|   |                  | Cesium, total     | 7440-46-2  | E420   | 0.0513 mg/L              | 0.05 mg/L | 102          | 70.0                | 130  | ---       |
|   |                  | Chromium, total   | 7440-47-3  | E420   | 0.197 mg/L               | 0.2 mg/L  | 98.4         | 70.0                | 130  | ---       |
|   |                  | Cobalt, total     | 7440-48-4  | E420   | 0.0986 mg/L              | 0.1 mg/L  | 98.6         | 70.0                | 130  | ---       |
|   |                  | Copper, total     | 7440-50-8  | E420   | 0.0959 mg/L              | 0.1 mg/L  | 95.9         | 70.0                | 130  | ---       |
|   |                  | Iron, total       | 7439-89-6  | E420   | ND mg/L                  | ---       | ND           | 70.0                | 130  | ---       |
|   |                  | Lead, total       | 7439-92-1  | E420   | 0.0901 mg/L              | 0.1 mg/L  | 90.1         | 70.0                | 130  | ---       |
|   |                  | Lithium, total    | 7439-93-2  | E420   | 0.479 mg/L               | 0.5 mg/L  | 95.7         | 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   | 0.102 mg/L               | 0.1 mg/L  | 102          | 70.0                | 130  | ---       |
|   |                  | Nickel, total     | 7440-02-0  | E420   | 0.189 mg/L               | 0.2 mg/L  | 94.5         | 70.0                | 130  | ---       |
|   |                  | Phosphorus, total | 7723-14-0  | E420   | 50.1 mg/L                | 50 mg/L   | 100          | 70.0                | 130  | ---       |
|   |                  | Potassium, total  | 7440-09-7  | E420   | ND mg/L                  | ---       | ND           | 70.0                | 130  | ---       |
|   |                  | Rubidium, total   | 7440-17-7  | E420   | 0.0994 mg/L              | 0.1 mg/L  | 99.4         | 70.0                | 130  | ---       |
|   |                  | Selenium, total   | 7782-49-2  | E420   | 0.204 mg/L               | 0.2 mg/L  | 102          | 70.0                | 130  | ---       |
|   |                  | Silicon, total    | 7440-21-3  | E420   | ND mg/L                  | ---       | ND           | 70.0                | 130  | ---       |
|   |                  | Silver, total     | 7440-22-4  | E420   | 0.0192 mg/L              | 0.02 mg/L | 95.8         | 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   | 103 mg/L                 | 100 mg/L  | 103          | 70.0                | 130  | ---       |
|   |                  | Tellurium, total  | 13494-80-9 | E420   | 0.204 mg/L               | 0.2 mg/L  | 102          | 70.0                | 130  | ---       |
|   |                  | Thallium, total   | 7440-28-0  | E420   | 0.0173 mg/L              | 0.02 mg/L | 86.5         | 70.0                | 130  | ---       |
|   |                  | Thorium, total    | 7440-29-1  | E420   | 0.0922 mg/L              | 0.1 mg/L  | 92.2         | 70.0                | 130  | ---       |
|   |                  | Tin, total        | 7440-31-5  | E420   | 0.0990 mg/L              | 0.1 mg/L  | 99.0         | 70.0                | 130  | ---       |
|   |                  | Titanium, total   | 7440-32-6  | E420   | 0.191 mg/L               | 0.2 mg/L  | 95.6         | 70.0                | 130  | ---       |
|   |                  | Tungsten, total   | 7440-33-7  | E420   | 0.0927 mg/L              | 0.1 mg/L  | 92.7         | 70.0                | 130  | ---       |
|   |                  | Uranium, total    | 7440-61-1  | E420   | 0.0195 mg/L              | 0.02 mg/L | 97.4         | 70.0                | 130  | ---       |
|   |                  | Vanadium, total   | 7440-62-2  | E420   | 0.505 mg/L               | 0.5 mg/L  | 101          | 70.0                | 130  | ---       |
|   |                  | Zinc, total       | 7440-66-6  | E420   | 1.96 mg/L                | 2 mg/L    | 97.9         | 70.0                | 130  | ---       |
|   |                  | Zirconium, total  | 7440-67-7  | E420   | 0.205 mg/L               | 0.2 mg/L  | 103          | 70.0                | 130  | ---       |
| <b>Total Metals (QC Lot: 1610399)</b>             |                  |                   |            |        |                          |           |              |                     |      |           |
| VA24C0638-002                                     | Anonymous        | Mercury, total    | 7439-97-6  | E508   | 0.000103 mg/L            | 0 mg/L    | 103          | 70.0                | 130  | ---       |
| <b>Total Metals (QC Lot: 1615360)</b>             |                  |                   |            |        |                          |           |              |                     |      |           |
| VA24C0978-001                                     | Anonymous        | Mercury, total    | 7439-97-6  | E508   | 0.000104 mg/L            | 0 mg/L    | 104          | 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 |
| <b>Dissolved Metals (QCLot: 1607992)</b> |                  |                                     |            |              |                          |                     |      |      |      |           |
| VA24C0970-002                            | Anonymous        | Aluminum, dissolved                 | 7429-90-5  | E421         | 0.376 mg/L               | 0.4 mg/L            | 94.1 | 70.0 | 130  | ---       |
|  |                  | Antimony, dissolved                 | 7440-36-0  | E421         | 0.0362 mg/L              | 0.04 mg/L           | 90.4 | 70.0 | 130  | ---       |
|  |                  | Arsenic, dissolved                  | 7440-38-2  | E421         | 0.0388 mg/L              | 0.04 mg/L           | 97.0 | 70.0 | 130  | ---       |
|  |                  | Barium, dissolved                   | 7440-39-3  | E421         | ND mg/L                  | ---                 | ND   | 70.0 | 130  | ---       |
|  |                  | Beryllium, dissolved                | 7440-41-7  | E421         | 0.0744 mg/L              | 0.08 mg/L           | 93.0 | 70.0 | 130  | ---       |
|  |                  | Bismuth, dissolved                  | 7440-69-9  | E421         | 0.0167 mg/L              | 0.02 mg/L           | 83.5 | 70.0 | 130  | ---       |
|  |                  | Boron, dissolved                    | 7440-42-8  | E421         | ND mg/L                  | ---                 | ND   | 70.0 | 130  | ---       |
|  |                  | Cadmium, dissolved                  | 7440-43-9  | E421         | 0.00730 mg/L             | 0.008 mg/L          | 91.3 | 70.0 | 130  | ---       |
|  |                  | Calcium, dissolved                  | 7440-70-2  | E421         | ND mg/L                  | ---                 | ND   | 70.0 | 130  | ---       |
|  |                  | Cesium, dissolved                   | 7440-46-2  | E421         | 0.0183 mg/L              | 0.02 mg/L           | 91.5 | 70.0 | 130  | ---       |
|  |                  | Chromium, dissolved                 | 7440-47-3  | E421         | 0.0729 mg/L              | 0.08 mg/L           | 91.1 | 70.0 | 130  | ---       |
|  |                  | Cobalt, dissolved                   | 7440-48-4  | E421         | 0.0352 mg/L              | 0.04 mg/L           | 87.9 | 70.0 | 130  | ---       |
|  |                  | Copper, dissolved                   | 7440-50-8  | E421         | 0.0336 mg/L              | 0.04 mg/L           | 84.1 | 70.0 | 130  | ---       |
|  |                  | Iron, dissolved                     | 7439-89-6  | E421         | 3.29 mg/L                | 4 mg/L              | 82.2 | 70.0 | 130  | ---       |
|  |                  | Lead, dissolved                     | 7439-92-1  | E421         | 0.0342 mg/L              | 0.04 mg/L           | 85.6 | 70.0 | 130  | ---       |
|  |                  | Lithium, dissolved                  | 7439-93-2  | E421         | 0.177 mg/L               | 0.2 mg/L            | 88.7 | 70.0 | 130  | ---       |
|  |                  | Magnesium, dissolved                | 7439-95-4  | E421         | ND mg/L                  | ---                 | ND   | 70.0 | 130  | ---       |
|  |                  | Manganese, dissolved                | 7439-96-5  | E421         | ND mg/L                  | ---                 | ND   | 70.0 | 130  | ---       |
|  |                  | Molybdenum, dissolved               | 7439-98-7  | E421         | 0.0396 mg/L              | 0.04 mg/L           | 99.0 | 70.0 | 130  | ---       |
|  |                  | Nickel, dissolved                   | 7440-02-0  | E421         | 0.0694 mg/L              | 0.08 mg/L           | 86.8 | 70.0 | 130  | ---       |
|  |                  | Phosphorus, dissolved               | 7723-14-0  | E421         | 19.7 mg/L                | 20 mg/L             | 98.6 | 70.0 | 130  | ---       |
|  |                  | Potassium, dissolved                | 7440-09-7  | E421         | ND mg/L                  | ---                 | ND   | 70.0 | 130  | ---       |
|  |                  | Rubidium, dissolved                 | 7440-17-7  | E421         | 0.0363 mg/L              | 0.04 mg/L           | 90.8 | 70.0 | 130  | ---       |
|  |                  | Selenium, dissolved                 | 7782-49-2  | E421         | 0.0731 mg/L              | 0.08 mg/L           | 91.4 | 70.0 | 130  | ---       |
|  |                  | Silicon, dissolved                  | 7440-21-3  | E421         | ND mg/L                  | ---                 | ND   | 70.0 | 130  | ---       |
|  |                  | Silver, dissolved                   | 7440-22-4  | E421         | 0.00669 mg/L             | 0.008 mg/L          | 83.7 | 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         | ND mg/L                  | ---                 | ND   | 70.0 | 130  | ---       |
|  |                  | Tellurium, dissolved                | 13494-80-9 | E421         | 0.0769 mg/L              | 0.08 mg/L           | 96.1 | 70.0 | 130  | ---       |
|  |                  | Thallium, dissolved                 | 7440-28-0  | E421         | 0.00690 mg/L             | 0.008 mg/L          | 86.3 | 70.0 | 130  | ---       |
|  |                  | Thorium, dissolved                  | 7440-29-1  | E421         | 0.0348 mg/L              | 0.04 mg/L           | 87.1 | 70.0 | 130  | ---       |
|  |                  | Tin, dissolved                      | 7440-31-5  | E421         | 0.0366 mg/L              | 0.04 mg/L           | 91.4 | 70.0 | 130  | ---       |
|  |                  | Titanium, dissolved                 | 7440-32-6  | E421         | 0.0706 mg/L              | 0.08 mg/L           | 88.3 | 70.0 | 130  | ---       |
|  |                  | Tungsten, dissolved                 | 7440-33-7  | E421         | 0.0374 mg/L              | 0.04 mg/L           | 93.4 | 70.0 | 130  | ---       |
|  |                  | Uranium, dissolved                  | 7440-61-1  | E421         | 0.00688 mg/L             | 0.008 mg/L          | 86.1 | 70.0 | 130  | ---       |
|  |                  | Vanadium, dissolved                 | 7440-62-2  | E421         | 0.190 mg/L               | 0.2 mg/L            | 94.8 | 70.0 | 130  | ---       |
|  |                  | Zinc, dissolved                     | 7440-66-6  | E421         | 0.695 mg/L               | 0.8 mg/L            | 86.8 | 70.0 | 130  | ---       |
|  |                  | Zirconium, dissolved                | 7440-67-7  | E421         | 0.0813 mg/L              | 0.08 mg/L           | 102  | 70.0 | 130  | ---       |
| <b>Dissolved Metals (QCLot: 1610589)</b> |                  |                                     |            |              |                          |                     |      |      |      |           |
| VA24C0862-001                            | Anonymous        | Mercury, dissolved                  | 7439-97-6  | E509         | 0.0000917 mg/L           | 0 mg/L              | 91.7 | 70.0 | 130  | ---       |
| <b>Speciated Metals (QCLot: 1612282)</b> |                  |                                     |            |              |                          |                     |      |      |      |           |
| VA24C0997-001                            | Anonymous        | Chromium, hexavalent [Cr VI], total | 18540-29-9 | E532         | 0.0388 mg/L              | 0.04 mg/L           | 97.0 | 70.0 | 130  | ---       |

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Triton Environmental Consultants Ltd.  
11964

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

**Canada Toll Free: 1 800 668 9878**

COC Number: 17 -

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Affix ALS barcode label here

(Lab use only)

|   |   |  |   |  |              |               |  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
|---|---|--|---|--|--------------|---------------|--|---|---|---|---|---|---|---|---|--|-----------------------------|-------|-------|--------------|-------|-------|-----------------|---|------------------------------|--------------|-------|-------|--------------|-------|-------|--------------|-------|-------|
| 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"/> 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 checked="" type="checkbox"/> YES <input type="checkbox"/> NO               |  |              |               | 4 day [P4-20%] <input type="checkbox"/>  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| Phone:  |   |  | <input checked="" type="checkbox"/> Compare Results to Criteria on Report - provide details below if box checked          |  |              |               | 3 day [P3-25%] <input type="checkbox"/>  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| Street:   |   |  | Select Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX |  |              |               | 2 day [P2-50%] <input type="checkbox"/>  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| City/Province:  |   |  | Email 1 or Fa   |  |              |               | EMERGENCY 1 Business day [E1 - 100%]   |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| Postal Code:  |   |  | Email 2   |  |              |               | Same Day, Weekend or Statutory holiday [E2 - 200% (Laboratory opening fees may apply)]                                 |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| Invoice To  | Same as Report To <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO           |  | Email 3   |  |              |               | Date and Time Required for all E&P TATs: 28-Aug-2013 dd-mm-yy hh:mm  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
|   | Copy of Invoice with Report <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO |  | Select Invoice  |  |              |               | For tests that can not be performed according to the service level selected, you will be contacted.                    |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| Company:  |   |  | Email 1 or Fa   |  |              |               | Analysis Request   |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| Contact:  |   |  | Email 2   |  |              |               | Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below   |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| Project Information   |   |  |   | Oil and Gas Required Fields (client use) |              |               |  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| ALS Account # / Quota #:  | VA23-TRIT100-012  |  |   | AFE/Cost Center:                         |              | PO#           |  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| 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): C105                                       |   |  |   | ALS Contact:                             |              | Sampler:      |  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| ALS Sample # (lab use only)   | Sample Identification and/or Coordinates<br>(This description will appear on the report)        |  |   | Date (dd-mmm-yy)                         | Time (hh:mm) | Sample Type   |  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
|   | WLNG US 1   |  |   | 20-Aug-24                                | 12:26        | Water         |  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| pH: 7.73  | cond: 33 µS/cm temp: 16.0 °C  |  |   |  |              | P             | R  | R   | R | R | R | R | R | R   | P2  | P2   | P2                          | P2    | P2    |              |       |       | SAMPLES ON HOLD | N 9                                     |                              |              |       |       |              |       |       |              |       |       |
|   | WLNG DS 1   |  |   | 20-Aug-24                                | 10:23        | Water         |  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| pH: 7.32  | cond: 120 µS/cm temp: 16.2 °C   |  |   |  |              | R             | R  | R   | R | R | R | R | R | R   | R   | R  | R                           | R     | R     | R            |       |       | N 9             |   |                              |              |       |       |              |       |       |              |       |       |
| Duplicate   |   |  |   |  |              | Water         |  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| Field Blank   |   |  |   |  |              | Water         |  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| TADP  |   |  |   |  |              | Water         |  |   |   |   |   |   |   |   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
| Environmental Division<br>Vancouver<br>Work Order Reference<br><b>VA24C1105</b> |   |  |   |  |              |               |  |   |   |   |   |   |   | Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below<br>(electronic COC only) |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
|   |   |  |   |  |              |               |  |   |   |   |   |   |   | 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 <input type="checkbox"/>            | 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  | 13   | 12                          | 13    | 12    | 13           | 12    | 13    | 12              | 13                                      | 12                           | 13           | 12    | 13    | 12           | 13    |       |              |       |       |
|   |   |  |   |  |              |               |  |   |   |   |   |   |   | SHIPMENT RELEASE (client use)   |   |  |                             |       |       |              |       |       |                 | INITIAL SHIPMENT RECEIPT (lab use only) |                              |              |       |       |              |       |       |              |       |       |
|   |   |  |   |  |              |               |  |   |   |   |   |   |   | 20 Aug 28   | 17:05   | Time:  | Received by:                | Date: | Time: | Received by: | Date: | Time: | Received by:    | Date:                                   | Time:                        | Received by: | Date: | Time: | Received by: | Date: | Time: | Received by: | Date: | Time: |
|   |   |  |   |  |              |               |  |   |   |   |   |   |   | FINAL SHIPMENT RECEIPTION (lab use only)  |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |
|   |   |  |   |  |              |               |  |   |   |   |   |   |   | 20 Aug 28   | 17:05   | Time:  | Received by:                | Date: | Time: | Received by: | Date: | Time: | Received by:    | Date:                                   | Time:                        | Received by: | Date: | Time: | Received by: | Date: | Time: | Received by: | Date: | Time: |
|   |   |  |   |  |              |               |  |   |   |   |   |   |   | REMARKS   |   |  |                             |       |       |              |       |       |                 |   |                              |              |       |       |              |       |       |              |       |       |

**Special Instructions / Specify Criteria to add on report by clicking on the drop-down list below  
(electronic COC only)**

2 day TAT for WLNG us metals, DOC, and regular TAT for ~~all~~ other parameters.

Triton Project # 11964

**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        | <input type="checkbox"/> | Custody seal intact      | Yes | <input type="checkbox"/> |
| Cooling Initiated | <input type="checkbox"/>            |                  |                          |                          | No  | <input type="checkbox"/> |

#### INITIAL COOLER TEMPERATURES °C      FINAL COOLER TEMPERATURES °C

Telephone : +1 604 253 4188

**SHIPMENT RELEASE (client use)**

Time: 17:05

**INITIAL SHIPMENT RECEIPT (lab use only)**

**FINAL SHIPMENT RECEIPT (lab use only)**

Time  
5:10 PM  
SEPTEMBER

#### **DNS AND SAMPLING INFORMATION**

WHITE - LABORATORY COPY      YELLOW - CLIENT COPY

play analysis. Please fill in this form LEGIBIY. 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.

**United Drinking Water (DW) System:** please submit using an Authorized DW CDC form.

|   |  |   |
|---|--|---|
|  <b>FORTIS BC™</b> | <b>Eagle Mountain - Woodfibre Gas Pipeline Project</b> | <b>Aug. 19<sup>th</sup> to Aug. 25<sup>th</sup>, 2024</b> |
|   | <b>Report #</b>  | <b>22</b>   |
|   | <b>Appendix D</b>                                      | <b>D-4</b>  |

## Woodfibre Site Receiving Environment Field Notes and Logs

|                            |               |                            |   |
|----------------------------|---------------|----------------------------|---|
| <b>Project Component:</b>  | Tunnel        | <b>Site Name:</b>          | Receiving Environment - Downstream of Discharge |
| <b>Inspection Date:</b>    | 08/20/2024    | <b>Location:</b>           | WLNG  |
| <b>Triton QP:</b>          | Lily Chycoski | <b>Latitude/Longitude:</b> |   |
| <b>Temperature(c):</b>     | Low 13        | High 17                    | <b>Permit:</b>                                  |
| <b>Weather Conditions:</b> | Light Rain    | <b>Ground Conditions:</b>  | Wet   |

**Observations**

**Time:** 10:23:00      **Flow Volume (visual):** low

**Notes:** DO: 7.63 mg/L  
ORP: 66.3 MV  
Salinity: 0.12 ppt

**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 | Total Trivalent Chromium         | Yes | QA Samples: No |
| Nutrients                  | Yes | VOC/VPH                          | No  |                |
| DOC                        | Yes | EPH, PAH, LEPH/HEPH              | No  |                |
|                            |     | Trout LC50                       | No  |                |

**Logger Maintenance**

|                                      |    |   |     |
|--------------------------------------|----|---|-----|
| <b>Logger Maintenance Performed?</b> | No | <b>Photo of COC with Lab Signature?</b> | Yes |
|--------------------------------------|----|---|-----|

**Describe Logger Maintenance**

Photos



**Photo:**

1

**Location:**

EAS DS 1

**Description:**

US view



**Photo:**

2

**Location:**

EAS DS 1

**Description:**

Across view

Photos



**Photo:** 3

**Location:** EAS DS 1

**Description:** DS view



**Photo:** 4

**Location:** EAS DS 1

**Description:** Sonde setup

## Photos

**Photo:** 5  
**Location:** EAS DS 1  
**Description:** Lab COC

**Sign Off**

**Report Prepared By:** Lily Chycoski

**Report Reviewer:**

**Name:**

**Designation:**

**Designation Number:**

**Report Reviewed:** Yes

**Professional(s) of Record:**

|                            |               |                            |   |            |
|----------------------------|---------------|----------------------------|---|------------|
| <b>Project Component:</b>  | Tunnel        | <b>Site Name:</b>          | Receiving Environment - Upstream of Discharge |            |
| <b>Inspection Date:</b>    | 08/20/2024    | <b>Location:</b>           | WLNG  |            |
| <b>Triton QP:</b>          | Lily Chycoski | <b>Latitude/Longitude:</b> | 49.669455                                     | -123.25087 |
| <b>Temperature(c):</b>     | Low 13        | High 17                    | <b>Permit:</b> PE 110136                      |            |
| <b>Weather Conditions:</b> | Light Rain    | <b>Ground Conditions:</b>  | Wet   |            |

**Observations**

Time: 12:26:00      Flow Volume (visual): low

**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 | Total Trivalent Chromium         | Yes | QA Samples: No |
| Nutrients                  | Yes | VOC/VPH                          | No  |                |
| DOC                        | Yes | EPH, PAH, LEPH/HEPH              | No  |                |
|                            |     | Trout LC50                       | No  |                |

**Logger Maintenance**

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

Describe Logger Maintenance

Photos



**Photo:**

1

**Location:**

EAS US 1

**Description:**

US view



**Photo:**

2

**Location:**

EAS US 1

**Description:**

Across view

## Photos



**Photo:** 3  
**Location:** EAS US  
**Description:** DS view

**Photo:** 4  
**Location:** EAS US 1  
**Description:** Lab COC

**Sign Off**

**Report Prepared By:** Lily Chycoski

**Report Reviewer:**

**Name:**

**Designation:**

**Designation Number:**

**Report Reviewed:** Yes

**Professional(s) of Record:**

## WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25

| Received        | Specific Conductivity |        |          |      | Dissolved Oxygen |    |      |       |               |           |     |         |
|-----------------|-----------------------|--------|----------|------|------------------|----|------|-------|---------------|-----------|-----|---------|
|                 | Temperature           | ÂµS/cm | Salinity |      | pH               | pH | ORP  | mV    | Concentration | Turbidity | TL  | Battery |
|                 |                       |        | °C       | PSU  |                  |    |      |       |               | mg/L      | NTU | V       |
| 8/25/2024 23:50 | 15.09                 | 203.32 | 0.1      | 7.87 | 335.75           |    | 0.03 | 46.72 |               | 46.72     |     | 12.29   |
| 8/25/2024 23:40 | 15.09                 | 203.2  | 0.1      | 7.88 | 350.04           |    | 0.04 | 47.96 |               | 47.96     |     | 12.29   |
| 8/25/2024 23:30 | 15.08                 | 202.71 | 0.1      | 7.88 | 346.48           |    | 0.04 | 56.55 |               | 56.55     |     | 12.29   |
| 8/25/2024 23:20 | 15.0                  | 200    | 0        | 7.88 | 333.02           |    | 0.04 | 51.96 |               | 51.96     |     | 12.31   |
| 8/25/2024 23:10 | 15.09                 | 202.86 | 0.1      | 7.88 | 337.21           |    | 0.04 | 45.03 |               | 45.03     |     | 12.31   |
| 8/25/2024 23:00 | 15.1                  | 202.74 | 0.1      | 7.88 | 332.5            |    | 0.03 | 44.99 |               | 44.99     |     | 12.29   |
| 8/25/2024 22:50 | 15.12                 | 202.58 | 0.1      | 7.88 | 336.81           |    | 0.03 | 43.89 |               | 43.89     |     | 12.21   |
| 8/25/2024 22:40 | 15.13                 | 202.93 | 0.1      | 7.87 | 340.71           |    | 0.03 | 49.26 |               | 49.26     |     | 12.29   |
| 8/25/2024 22:30 | 15.14                 | 203.08 | 0.1      | 7.87 | 351.19           |    | 0.03 | 42.79 |               | 42.79     |     | 12.33   |
| 8/25/2024 22:20 | 15.15                 | 203.35 | 0.1      | 7.85 | 368.19           |    | 0.03 | 42.2  |               | 42.2      |     | 12.31   |
| 8/25/2024 22:10 | 15.16                 | 203.38 | 0.1      | 7.85 | 366.77           |    | 0.04 | 42.71 |               | 42.71     |     | 12.21   |
| 8/25/2024 22:00 | 15.17                 | 203.43 | 0.1      | 7.86 | 359.84           |    | 0.04 | 42.4  |               | 42.4      |     | 12.19   |
| 8/25/2024 21:50 | 15.18                 | 203.19 | 0.1      | 7.86 | 355.42           |    | 0.04 | 41.79 |               | 41.79     |     | 12.33   |
| 8/25/2024 21:40 | 15.18                 | 203.01 | 0.1      | 7.85 | 341.38           |    | 0.03 | 41.81 |               | 41.81     |     | 12.33   |
| 8/25/2024 21:30 | 15.19                 | 203.11 | 0.1      | 7.86 | 348.83           |    | 0.03 | 41.34 |               | 41.34     |     | 12.33   |
| 8/25/2024 21:20 | 15.2                  | 203.2  | 0.1      | 7.85 | 348.68           |    | 0.04 | 41.7  |               | 41.7      |     | 12.33   |
| 8/25/2024 21:10 | 15.21                 | 203.39 | 0.1      | 7.85 | 347.4            |    | 0.04 | 40.86 |               | 40.86     |     | 12.33   |
| 8/25/2024 21:00 | 15.21                 | 203.05 | 0.1      | 7.85 | 342.11           |    | 0.05 | 40.7  |               | 40.7      |     | 12.33   |
| 8/25/2024 20:50 | 15.22                 | 203.5  | 0.1      | 7.85 | 345.11           |    | 0.05 | 39.75 |               | 39.75     |     | 12.33   |
| 8/25/2024 20:40 | 15.23                 | 203.31 | 0.1      | 7.85 | 345.48           |    | 0.06 | 39.94 |               | 39.94     |     | 12.36   |
| 8/25/2024 20:30 | 15.24                 | 202.87 | 0.1      | 7.85 | 339.14           |    | 0.07 | 39.42 |               | 39.42     |     | 12.26   |
| 8/25/2024 20:20 | 15.24                 | 202.91 | 0.1      | 7.85 | 321.93           |    | 0.06 | 42.51 |               | 42.51     |     | 12.33   |
| 8/25/2024 20:10 | 15.25                 | 202.7  | 0.1      | 7.85 | 324.22           |    | 0.06 | 41.38 |               | 41.38     |     | 12.41   |
| 8/25/2024 20:00 | 15.26                 | 202.81 | 0.1      | 7.85 | 321.66           |    | 0.05 | 41.31 |               | 41.31     |     | 12.43   |
| 8/25/2024 19:50 | 15.27                 | 203.08 | 0.1      | 7.85 | 322.95           |    | 0.05 | 40.69 |               | 40.69     |     | 12.38   |
| 8/25/2024 19:40 | 15.27                 | 203.58 | 0.1      | 7.83 | 324.98           |    | 0.05 | 40.45 |               | 40.45     |     | 12.53   |
| 8/25/2024 19:30 | 15.28                 | 203.74 | 0.1      | 7.84 | 329.82           |    | 0.05 | 41.16 |               | 41.16     |     | 12.53   |
| 8/25/2024 19:20 | 15.29                 | 203.27 | 0.1      | 7.84 | 336.82           |    | 0.05 | 41.1  |               | 41.1      |     | 12.67   |
| 8/25/2024 19:10 | 15.3                  | 203.36 | 0.1      | 7.85 | 350              |    | 0.05 | 39.88 |               | 39.88     |     | 12.84   |
| 8/25/2024 19:00 | 15.3                  | 202.94 | 0.1      | 7.86 | 340.49           |    | 0.05 | 40.33 |               | 40.33     |     | 13.03   |
| 8/25/2024 18:50 | 15.32                 | 202.28 | 0.1      | 7.87 | 349.66           |    | 0.05 | 40.95 |               | 40.95     |     | 13.12   |
| 8/25/2024 18:40 | 15.33                 | 202.4  | 0.1      | 7.87 | 339.74           |    | 0.05 | 40.24 |               | 40.24     |     | 13.2    |
| 8/25/2024 18:30 | 15.33                 | 202.8  | 0.1      | 7.86 | 351.63           |    | 0.06 | 41.61 |               | 41.61     |     | 13.2    |
| 8/25/2024 18:20 | 15.35                 | 202.7  | 0.1      | 7.86 | 353.37           |    | 0.07 | 41.24 |               | 41.24     |     | 13.2    |
| 8/25/2024 18:10 | 15.37                 | 202.75 | 0.1      | 7.87 | 345.38           |    | 0.07 | 40.88 |               | 40.88     |     | 13.22   |
| 8/25/2024 18:00 | 15.37                 | 202.33 | 0.1      | 7.87 | 325.67           |    | 0.06 | 41.96 |               | 41.96     |     | 13.27   |
| 8/25/2024 17:50 | 15.37                 | 202.36 | 0.1      | 7.87 | 331.66           |    | 0.05 | 40.91 |               | 40.91     |     | 13.39   |
| 8/25/2024 17:40 | 15.35                 | 202.49 | 0.1      | 7.87 | 344.89           |    | 0.06 | 41.73 |               | 41.73     |     | 13.32   |
| 8/25/2024 17:30 | 15.35                 | 203.13 | 0.1      | 7.86 | 351.63           |    | 0.06 | 40.19 |               | 40.19     |     | 13.27   |
| 8/25/2024 17:20 | 15.36                 | 202.89 | 0.1      | 7.87 | 349.95           |    | 0.06 | 39.16 |               | 39.16     |     | 13.2    |
| 8/25/2024 17:10 | 15.38                 | 202.76 | 0.1      | 7.87 | 348.88           |    | 0.06 | 38.99 |               | 38.99     |     | 13.27   |
| 8/25/2024 17:00 | 15.38                 | 202.8  | 0.1      | 7.88 | 336.99           |    | 0.06 | 39.09 |               | 39.09     |     | 13.6    |

**WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25**

|                 |       |        |      |      |        |      |       |       |
|-----------------|-------|--------|------|------|--------|------|-------|-------|
| 8/25/2024 16:50 | 15.36 | 203.25 | 0.1  | 7.88 | 351.04 | 0.06 | 39.08 | 13.58 |
| 8/25/2024 16:40 | 15.35 | 202.9  | 0.1  | 7.88 | 353.45 | 0.07 | 39.37 | 13.27 |
| 8/25/2024 16:30 | 15.35 | 202.73 | 0.1  | 7.88 | 350.44 | 0.07 | 39.09 | 13.36 |
| 8/25/2024 16:20 | 15.33 | 202.93 | 0.1  | 7.88 | 341.85 | 0.07 | 38.74 | 13.32 |
| 8/25/2024 16:10 | 15.34 | 203.22 | 0.1  | 7.88 | 336.04 | 0.07 | 38.34 | 13.12 |
| 8/25/2024 16:00 | 15.33 | 202.98 | 0.1  | 7.88 | 321.52 | 0.06 | 39.81 | 13.12 |
| 8/25/2024 15:50 | 15.34 | 203.38 | 0.1  | 7.88 | 331.55 | 0.06 | 39.86 | 13.12 |
| 8/25/2024 15:40 | 15.34 | 202.55 | 0.1  | 7.9  | 348.66 | 0.07 | 38.7  | 13.12 |
| 8/25/2024 15:30 | 15.37 | 202.05 | 0.1  | 7.91 | 348.7  | 0.07 | 38.99 | 13.29 |
| 8/25/2024 15:20 | 15.38 | 201.99 | 0.1  | 7.91 | 338.68 | 0.07 | 40.08 | 13.58 |
| 8/25/2024 15:10 | 15.37 | 202.08 | 0.1  | 7.91 | 340.81 | 0.07 | 38.19 | 13.58 |
| 8/25/2024 15:00 | 15.36 | 202.37 | 0.1  | 7.91 | 341.26 | 0.08 | 37.95 | 13.58 |
| 8/25/2024 14:50 | 15.34 | 202.36 | 0.1  | 7.91 | 339.94 | 0.08 | 38.92 | 13.6  |
| 8/25/2024 14:40 | 15.35 | 201.73 | 0.1  | 7.92 | 338.1  | 0.09 | 38.58 | 13.51 |
| 8/25/2024 14:40 | 15.35 | 201.73 | 0.1  | 7.92 | 338.1  | 0.09 | 38.58 | 13.51 |
| 8/25/2024 14:30 | 15.36 | 202.1  | 0.1  | 7.92 | 336.06 | 0.09 | 37.65 | 13.58 |
| 8/25/2024 14:20 | 15.35 | 201.83 | 0.1  | 7.91 | 319.6  | 0.09 | 40.01 | 13.58 |
| 8/25/2024 14:10 | 15.35 | 202.26 | 0.1  | 7.92 | 320.47 | 0.09 | 38.31 | 13.39 |
| 8/25/2024 14:00 | 15.34 | 203.14 | 0.1  | 7.9  | 319.63 | 0.08 | 39.02 | 13.6  |
| 8/25/2024 13:50 | 15.34 | 203.33 | 0.1  | 7.9  | 324.19 | 0.08 | 38.22 | 13.53 |
| 8/25/2024 13:40 | 15.33 | 203.09 | 0.1  | 7.91 | 324.43 | 0.07 | 39.37 | 13.63 |
| 8/25/2024 13:30 | 15.32 | 202.49 | 0.1  | 7.92 | 331.76 | 0.08 | 39.13 | 13.63 |
| 8/25/2024 13:20 | 15.31 | 202.55 | 0.1  | 7.92 | 347.18 | 0.08 | 38.14 | 13.29 |
| 8/25/2024 13:10 | 15.32 | 201.69 | 0.1  | 7.93 | 342.6  | 0.08 | 37.99 | 13.48 |
| 8/25/2024 13:00 | 15.32 | 201.78 | 0.1  | 7.92 | 328.45 | 0.08 | 48.11 | 13.41 |
| 8/25/2024 12:50 | 15.33 | 200.91 | 0.1  | 7.93 | 334.73 | 0.08 | 37.62 | 13.58 |
| 8/25/2024 12:40 | 15.34 | 200.56 | 0.1  | 7.93 | 343.73 | 0.09 | 37.52 | 13.58 |
| 8/25/2024 12:30 | 15.33 | 200.86 | 0.1  | 7.93 | 338.2  | 0.1  | 37.87 | 13.58 |
| 8/25/2024 12:20 | 15.33 | 200.32 | 0.1  | 7.92 | 321.51 | 0.09 | 41.16 | 13.58 |
| 8/25/2024 12:10 | 15.34 | 199.67 | 0.09 | 7.93 | 321.85 | 0.08 | 38.57 | 13.53 |
| 8/25/2024 12:00 | 15.4  | 199.72 | 0.09 | 7.93 | 322.54 | 0.08 | 38.84 | 13.48 |
| 8/25/2024 11:50 | 15.43 | 199.56 | 0.09 | 7.94 | 325.14 | 0.09 | 37.65 | 13.41 |
| 8/25/2024 11:40 | 15.38 | 199.7  | 0.09 | 7.94 | 323.09 | 0.08 | 37.87 | 13.51 |
| 8/25/2024 11:30 | 15.26 | 199.92 | 0.1  | 7.94 | 322.98 | 0.09 | 37.85 | 13.63 |
| 8/25/2024 11:20 | 15.27 | 201.38 | 0.1  | 7.93 | 320.49 | 0.08 | 37.66 | 13.63 |
| 8/25/2024 11:10 | 15.25 | 201.63 | 0.1  | 7.93 | 324.31 | 0.08 | 38.77 | 13.6  |
| 8/25/2024 11:00 | 15.23 | 201.67 | 0.1  | 7.92 | 328.11 | 0.08 | 37.46 | 13.44 |
| 8/25/2024 10:50 | 15.22 | 201.66 | 0.1  | 7.93 | 329.56 | 0.08 | 37.58 | 13.34 |
| 8/25/2024 10:40 | 15.22 | 202.05 | 0.1  | 7.93 | 321.19 | 0.07 | 37.92 | 13.34 |
| 8/25/2024 10:30 | 15.21 | 202.4  | 0.1  | 7.92 | 328.67 | 0.06 | 37.74 | 13.41 |
| 8/25/2024 10:20 | 15.2  | 202.27 | 0.1  | 7.93 | 352.81 | 0.08 | 37.73 | 13.32 |
| 8/25/2024 10:10 | 15.19 | 202.11 | 0.1  | 7.93 | 349.54 | 0.09 | 37.58 | 13.44 |
| 8/25/2024 10:00 | 15.17 | 201.91 | 0.1  | 7.92 | 334.16 | 0.08 | 44.03 | 13.36 |
| 8/25/2024 9:50  | 15.15 | 201.25 | 0.1  | 7.94 | 349.51 | 0.09 | 37.7  | 13.24 |
| 8/25/2024 9:40  | 15.14 | 201.22 | 0.1  | 7.93 | 355.54 | 0.09 | 37.25 | 13.12 |
| 8/25/2024 9:30  | 15.14 | 201.04 | 0.1  | 7.94 | 355.97 | 0.1  | 37.28 | 13.1  |
| 8/25/2024 9:20  | 15.12 | 200.98 | 0.1  | 7.93 | 356.25 | 0.09 | 41.28 | 13.12 |

**WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25**

|                |       |        |      |      |        |      |       |       |
|----------------|-------|--------|------|------|--------|------|-------|-------|
| 8/25/2024 9:10 | 15.1  | 201.18 | 0.1  | 7.93 | 357.53 | 0.1  | 37.07 | 13    |
| 8/25/2024 9:00 | 15.09 | 201    | 0.1  | 7.93 | 356.31 | 0.1  | 37.61 | 12.96 |
| 8/25/2024 8:50 | 15.07 | 201.15 | 0.1  | 7.93 | 358.05 | 0.1  | 37.52 | 12.84 |
| 8/25/2024 8:40 | 15.06 | 201.1  | 0.1  | 7.93 | 356.55 | 0.1  | 37.67 | 12.69 |
| 8/25/2024 8:30 | 15.05 | 201.02 | 0.1  | 7.93 | 358.08 | 0.1  | 37.53 | 12.55 |
| 8/25/2024 8:20 | 15.03 | 200.71 | 0.1  | 7.93 | 358.85 | 0.11 | 37.28 | 12.45 |
| 8/25/2024 8:10 | 15.03 | 200.82 | 0.1  | 7.93 | 358.78 | 0.1  | 37.1  | 12.38 |
| 8/25/2024 8:00 | 15.02 | 200.6  | 0.1  | 7.93 | 358.22 | 0.1  | 36.96 | 12.33 |
| 8/25/2024 7:50 | 15.02 | 200.59 | 0.1  | 7.93 | 358.45 | 0.1  | 37.25 | 12.24 |
| 8/25/2024 7:40 | 15.01 | 200.76 | 0.1  | 7.93 | 359.03 | 0.1  | 37.65 | 12.26 |
| 8/25/2024 7:30 | 15.01 | 200.92 | 0.1  | 7.93 | 358.75 | 0.1  | 36.65 | 12.24 |
| 8/25/2024 7:20 | 15.01 | 200.71 | 0.1  | 7.92 | 357.7  | 0.1  | 36.83 | 12.21 |
| 8/25/2024 7:10 | 15    | 200.55 | 0.1  | 7.93 | 359.96 | 0.1  | 36.64 | 12.21 |
| 8/25/2024 7:00 | 14.99 | 200.22 | 0.1  | 7.93 | 363.11 | 0.11 | 37.36 | 12.19 |
| 8/25/2024 6:50 | 14.97 | 199.86 | 0.09 | 7.93 | 362.02 | 0.12 | 36.2  | 12.19 |
| 8/25/2024 6:40 | 14.97 | 199.61 | 0.09 | 7.92 | 354.06 | 0.12 | 35.73 | 12.19 |
| 8/25/2024 6:30 | 14.96 | 199.38 | 0.09 | 7.93 | 363.42 | 0.12 | 35.04 | 12.09 |
| 8/25/2024 6:20 | 14.97 | 199.53 | 0.09 | 7.93 | 366.37 | 0.12 | 34.7  | 12.19 |
| 8/25/2024 6:10 | 14.98 | 199.39 | 0.09 | 7.93 | 364.26 | 0.13 | 33.89 | 12.17 |
| 8/25/2024 6:00 | 14.99 | 199.2  | 0.09 | 7.92 | 359.62 | 0.13 | 36.1  | 12.17 |
| 8/25/2024 5:50 | 14.99 | 199.15 | 0.09 | 7.93 | 355.2  | 0.13 | 34    | 12.17 |
| 8/25/2024 5:40 | 15    | 199.34 | 0.09 | 7.92 | 333.22 | 0.12 | 34.73 | 12.17 |
| 8/25/2024 5:30 | 15.01 | 198.98 | 0.09 | 7.92 | 338.07 | 0.11 | 34.29 | 12.14 |
| 8/25/2024 5:20 | 15.03 | 199.34 | 0.09 | 7.92 | 338.21 | 0.1  | 67.46 | 12.05 |
| 8/25/2024 5:10 | 15.04 | 199.06 | 0.09 | 7.92 | 348.53 | 0.09 | 33.39 | 12.05 |
| 8/25/2024 5:00 | 15.05 | 198.87 | 0.09 | 7.92 | 361.45 | 0.1  | 34.1  | 12.07 |
| 8/25/2024 4:50 | 15.07 | 198.86 | 0.09 | 7.92 | 356.81 | 0.11 | 33    | 12.19 |
| 8/25/2024 4:40 | 15.08 | 198.91 | 0.09 | 7.92 | 338.95 | 0.09 | 40.97 | 12.19 |
| 8/25/2024 4:30 | 15.09 | 198.47 | 0.09 | 7.92 | 347.12 | 0.07 | 32.5  | 12.19 |
| 8/25/2024 4:20 | 15.1  | 198.82 | 0.09 | 7.93 | 366.75 | 0.13 | 32.22 | 12.19 |
| 8/25/2024 4:10 | 15.11 | 198.64 | 0.09 | 7.93 | 365.43 | 0.14 | 32.24 | 12.12 |
| 8/25/2024 4:00 | 15.1  | 198.1  | 0.09 | 7.93 | 361.82 | 0.15 | 31.92 | 12.19 |
| 8/25/2024 3:50 | 15.1  | 197.82 | 0.09 | 7.93 | 359.2  | 0.16 | 32.57 | 12.12 |
| 8/25/2024 3:40 | 15.11 | 197.36 | 0.09 | 7.93 | 351.06 | 0.14 | 31.52 | 12.21 |
| 8/25/2024 3:30 | 15.11 | 196.93 | 0.09 | 7.93 | 353.09 | 0.15 | 31.06 | 12.21 |
| 8/25/2024 3:20 | 15.12 | 196.57 | 0.09 | 7.93 | 360.85 | 0.18 | 33.75 | 12.21 |
| 8/25/2024 3:10 | 15.13 | 196.38 | 0.09 | 7.93 | 360.89 | 0.18 | 31.23 | 12.21 |
| 8/25/2024 3:00 | 15.14 | 195.14 | 0.09 | 7.93 | 360.46 | 0.2  | 33.31 | 12.21 |
| 8/25/2024 2:50 | 15.15 | 193.47 | 0.09 | 7.93 | 357.15 | 0.2  | 31.24 | 12.21 |
| 8/25/2024 2:40 | 15.16 | 190.48 | 0.09 | 7.94 | 351.16 | 0.2  | 32.5  | 12.21 |
| 8/25/2024 2:30 | 15.16 | 185.93 | 0.09 | 7.95 | 350.53 | 0.2  | 31.75 | 12.24 |
| 8/25/2024 2:20 | 15.16 | 176.47 | 0.08 | 7.94 | 353.85 | 0.19 | 33.26 | 12.24 |
| 8/25/2024 2:10 | 15.14 | 158.87 | 0.08 | 7.96 | 360.12 | 0.16 | 32.43 | 12.24 |
| 8/25/2024 2:00 | 15.14 | 199.6  | 0.09 | 7.93 | 359.92 | 0.18 | 29.05 | 12.24 |
| 8/25/2024 1:50 | 15.15 | 199.79 | 0.09 | 7.93 | 362.1  | 0.18 | 23.44 | 12.24 |
| 8/25/2024 1:40 | 15.16 | 199.68 | 0.09 | 7.93 | 365.04 | 0.2  | 24.04 | 12.24 |
| 8/25/2024 1:30 | 15.17 | 200.03 | 0.1  | 7.93 | 365.48 | 0.19 | 22.98 | 12.24 |

**WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25**

|                 |       |        |      |      |        |      |       |       |
|-----------------|-------|--------|------|------|--------|------|-------|-------|
| 8/25/2024 1:20  | 15.17 | 199.94 | 0.1  | 7.92 | 366.58 | 0.2  | 23.12 | 12.24 |
| 8/25/2024 1:10  | 15.18 | 200.39 | 0.1  | 7.92 | 363.03 | 0.18 | 23.27 | 12.24 |
| 8/25/2024 1:00  | 15.18 | 199.78 | 0.09 | 7.92 | 357.03 | 0.19 | 23.34 | 12.14 |
| 8/25/2024 0:50  | 15.18 | 199.58 | 0.09 | 7.93 | 358.07 | 0.21 | 23.43 | 12.14 |
| 8/25/2024 0:40  | 15.18 | 199.29 | 0.09 | 7.93 | 357.42 | 0.2  | 23.11 | 12.24 |
| 8/25/2024 0:30  | 15.19 | 198.94 | 0.09 | 7.93 | 358.76 | 0.2  | 23.53 | 12.26 |
| 8/25/2024 0:20  | 15.2  | 199.14 | 0.09 | 7.93 | 361.57 | 0.21 | 23.27 | 12.24 |
| 8/25/2024 0:10  | 15.21 | 199.58 | 0.09 | 7.93 | 361.04 | 0.25 | 23.84 | 12.17 |
| 8/25/2024 0:00  | 15.21 | 199.41 | 0.09 | 7.93 | 360.67 | 0.27 | 23.27 | 12.14 |
| 8/24/2024 23:50 | 15.21 | 198.98 | 0.09 | 7.93 | 359.32 | 0.29 | 24.1  | 12.29 |
| 8/24/2024 23:40 | 0     | 0      | 0    | 7.93 | 356.94 | 0.32 | 25.19 | 12.29 |
| 8/24/2024 23:30 | 15.22 | 199.62 | 0.09 | 7.93 | 358.35 | 0.33 | 24.44 | 12.29 |
| 8/24/2024 23:20 | 15.23 | 199.34 | 0.09 | 7.93 | 360.92 | 0.36 | 23.22 | 12.31 |
| 8/24/2024 23:10 | 15.23 | 199.47 | 0.09 | 7.93 | 360.23 | 0.4  | 23.96 | 12.31 |
| 8/24/2024 23:00 | 15.24 | 199.21 | 0.09 | 7.92 | 359.39 | 0.42 | 24.21 | 12.31 |
| 8/24/2024 22:50 | 15.24 | 198.89 | 0.09 | 7.93 | 358.16 | 0.52 | 23.7  | 12.31 |
| 8/24/2024 22:40 | 15.25 | 199.12 | 0.09 | 7.92 | 357.42 | 0.59 | 23.64 | 12.31 |
| 8/24/2024 22:30 | 15.25 | 198.93 | 0.09 | 7.93 | 357.92 | 0.66 | 24.05 | 12.31 |
| 8/24/2024 22:20 | 15.25 | 198.85 | 0.09 | 7.92 | 358.64 | 0.74 | 25.7  | 12.31 |
| 8/24/2024 22:10 | 15.26 | 198.93 | 0.09 | 7.92 | 359.81 | 0.82 | 23.98 | 12.31 |
| 8/24/2024 22:00 | 15.26 | 198.45 | 0.09 | 7.92 | 361.05 | 0.88 | 23.36 | 12.29 |
| 8/24/2024 21:50 | 15.27 | 198.08 | 0.09 | 7.92 | 360.86 | 0.97 | 23.35 | 12.21 |
| 8/24/2024 21:40 | 15.28 | 198.69 | 0.09 | 7.91 | 361.19 | 1.05 | 24.97 | 12.33 |
| 8/24/2024 21:30 | 15.28 | 198.2  | 0.09 | 7.91 | 360.78 | 1.16 | 26.62 | 12.24 |
| 8/24/2024 21:20 | 15.29 | 197.39 | 0.09 | 7.9  | 360.55 | 1.28 | 25.85 | 12.24 |
| 8/24/2024 21:10 | 15.29 | 196.93 | 0.09 | 7.91 | 360.09 | 1.42 | 23.46 | 12.33 |
| 8/24/2024 21:00 | 15.3  | 195.25 | 0.09 | 7.91 | 359.85 | 1.58 | 24.16 | 12.33 |
| 8/24/2024 20:50 | 15.31 | 193.55 | 0.09 | 7.92 | 356.82 | 1.77 | 22.49 | 12.33 |
| 8/24/2024 20:40 | 15.33 | 190.66 | 0.09 | 7.91 | 354.38 | 1.94 | 22.76 | 12.36 |
| 8/24/2024 20:30 | 15.34 | 184.55 | 0.09 | 7.92 | 353.03 | 2.07 | 22.93 | 12.33 |
| 8/24/2024 20:20 | 15.35 | 170.9  | 0.08 | 7.93 | 353.43 | 2.09 | 23.9  | 12.31 |
| 8/24/2024 20:10 | 15.33 | 146.47 | 0.07 | 7.96 | 356.2  | 1.91 | 24.51 | 12.31 |
| 8/24/2024 20:00 | 15.31 | 195.11 | 0.09 | 7.9  | 358.7  | 1.55 | 17.56 | 12.29 |
| 8/24/2024 19:50 | 15.31 | 195.41 | 0.09 | 7.89 | 361.31 | 1.66 | 17.33 | 12.38 |
| 8/24/2024 19:40 | 15.32 | 194.89 | 0.09 | 7.9  | 366.48 | 1.74 | 19.99 | 12.41 |
| 8/24/2024 19:30 | 15.32 | 194.17 | 0.09 | 7.91 | 371.47 | 1.85 | 17.4  | 12.43 |
| 8/24/2024 19:20 | 15.33 | 194.27 | 0.09 | 7.9  | 378.36 | 1.98 | 16.8  | 12.45 |
| 8/24/2024 19:10 | 15.33 | 194.44 | 0.09 | 7.91 | 379.04 | 2.08 | 16.72 | 12.48 |
| 8/24/2024 19:00 | 15.34 | 194.03 | 0.09 | 7.9  | 380.08 | 2.18 | 17.31 | 12.5  |
| 8/24/2024 18:50 | 15.35 | 193.92 | 0.09 | 7.9  | 379.84 | 2.3  | 18.41 | 12.53 |
| 8/24/2024 18:40 | 15.36 | 193.85 | 0.09 | 7.89 | 379.84 | 2.35 | 16.55 | 12.45 |
| 8/24/2024 18:30 | 15.36 | 194.16 | 0.09 | 7.89 | 379.33 | 2.45 | 16.37 | 12.48 |
| 8/24/2024 18:20 | 15.37 | 194.07 | 0.09 | 7.89 | 379.96 | 2.54 | 16.43 | 12.57 |
| 8/24/2024 18:10 | 15.37 | 193.58 | 0.09 | 7.9  | 379.98 | 2.58 | 16.22 | 12.62 |
| 8/24/2024 18:00 | 15.38 | 193.4  | 0.09 | 7.89 | 380.39 | 2.59 | 15.82 | 12.62 |
| 8/24/2024 17:50 | 15.38 | 193.18 | 0.09 | 7.91 | 379.48 | 2.65 | 16.75 | 12.67 |
| 8/24/2024 17:40 | 15.39 | 193.02 | 0.09 | 7.91 | 379.5  | 2.67 | 17.52 | 12.91 |

**WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25**

|                 |       |        |      |      |        |      |       |       |
|-----------------|-------|--------|------|------|--------|------|-------|-------|
| 8/24/2024 17:40 | 15.39 | 193.02 | 0.09 | 7.91 | 379.5  | 2.67 | 17.52 | 12.91 |
| 8/24/2024 17:30 | 15.4  | 192.92 | 0.09 | 7.91 | 379.29 | 2.74 | 16.03 | 13.24 |
| 8/24/2024 17:20 | 15.41 | 192.76 | 0.09 | 7.91 | 380.08 | 2.81 | 16.2  | 13.27 |
| 8/24/2024 17:10 | 15.4  | 191.54 | 0.09 | 7.91 | 380.19 | 2.84 | 15.76 | 13.27 |
| 8/24/2024 17:00 | 15.39 | 192.31 | 0.09 | 7.91 | 381.1  | 2.84 | 16.01 | 13.24 |
| 8/24/2024 16:50 | 15.38 | 191.15 | 0.09 | 7.92 | 380.22 | 2.81 | 15.97 | 13.24 |
| 8/24/2024 16:40 | 15.39 | 190.49 | 0.09 | 7.92 | 379.9  | 2.85 | 14.78 | 13.22 |
| 8/24/2024 16:30 | 15.4  | 190.78 | 0.09 | 7.92 | 378.91 | 2.95 | 15.55 | 13.27 |
| 8/24/2024 16:20 | 15.43 | 190.5  | 0.09 | 7.92 | 378.24 | 3.04 | 15.95 | 13.32 |
| 8/24/2024 16:10 | 15.43 | 190.51 | 0.09 | 7.92 | 377.6  | 3.19 | 15.08 | 13.41 |
| 8/24/2024 16:00 | 15.44 | 190.68 | 0.09 | 7.92 | 377.58 | 3.3  | 14.53 | 13.6  |
| 8/24/2024 15:50 | 15.44 | 190.44 | 0.09 | 7.92 | 379.03 | 3.43 | 15.52 | 13.63 |
| 8/24/2024 15:40 | 15.4  | 191.42 | 0.09 | 7.9  | 381.01 | 3.49 | 16.3  | 13.63 |
| 8/24/2024 15:30 | 15.36 | 191.74 | 0.09 | 7.91 | 380.64 | 3.53 | 14.3  | 13.2  |
| 8/24/2024 15:20 | 15.36 | 191.52 | 0.09 | 7.91 | 380.7  | 3.5  | 15.97 | 13.24 |
| 8/24/2024 15:10 | 15.36 | 191.25 | 0.09 | 7.93 | 379.93 | 3.53 | 14.64 | 13.27 |
| 8/24/2024 15:00 | 15.35 | 191.12 | 0.09 | 7.93 | 379.41 | 3.52 | 14.76 | 13.27 |
| 8/24/2024 14:50 | 15.35 | 189.74 | 0.09 | 7.93 | 379.06 | 3.62 | 13.63 | 13.15 |
| 8/24/2024 14:40 | 15.35 | 190.49 | 0.09 | 7.92 | 379.12 | 3.71 | 13.99 | 13.1  |
| 8/24/2024 14:30 | 15.37 | 190.7  | 0.09 | 7.93 | 378.96 | 3.75 | 15.08 | 13.1  |
| 8/24/2024 14:20 | 15.37 | 190.26 | 0.09 | 7.92 | 379.37 | 3.7  | 13.43 | 13.17 |
| 8/24/2024 14:10 | 15.38 | 190.08 | 0.09 | 7.93 | 379.03 | 3.57 | 14.47 | 13.1  |
| 8/24/2024 14:00 | 15.38 | 190.07 | 0.09 | 7.93 | 379.85 | 3.35 | 14.28 | 13.05 |
| 8/24/2024 13:50 | 15.39 | 189.93 | 0.09 | 7.92 | 380.31 | 3.18 | 13.55 | 12.98 |
| 8/24/2024 13:40 | 15.39 | 189.5  | 0.09 | 7.92 | 381.2  | 3.02 | 19.9  | 13.2  |
| 8/24/2024 13:30 | 15.38 | 188.69 | 0.09 | 7.92 | 381.01 | 2.96 | 13.92 | 13.2  |
| 8/24/2024 13:20 | 15.39 | 188.28 | 0.09 | 7.92 | 381.18 | 2.98 | 13.48 | 13.29 |
| 8/24/2024 13:10 | 15.39 | 187.14 | 0.09 | 7.93 | 380.8  | 2.99 | 14.18 | 13.24 |
| 8/24/2024 13:00 | 15.36 | 186.01 | 0.09 | 7.92 | 381.05 | 3.02 | 13.18 | 13.1  |
| 8/24/2024 12:50 | 15.36 | 185.45 | 0.09 | 7.92 | 380.15 | 3.07 | 13.67 | 13    |
| 8/24/2024 12:40 | 15.36 | 184.89 | 0.09 | 7.93 | 379.85 | 3.16 | 12.72 | 12.98 |
| 8/24/2024 12:30 | 15.35 | 183.8  | 0.09 | 7.93 | 378.57 | 3.22 | 13.98 | 12.81 |
| 8/24/2024 12:20 | 15.35 | 182.65 | 0.09 | 7.92 | 377.32 | 3.3  | 13.69 | 12.76 |
| 8/24/2024 12:10 | 15.35 | 181.9  | 0.09 | 7.92 | 375.74 | 3.4  | 13.89 | 12.86 |
| 8/24/2024 12:00 | 15.34 | 181.41 | 0.09 | 7.92 | 374.26 | 3.52 | 15.96 | 12.84 |
| 8/24/2024 11:50 | 15.34 | 180.71 | 0.09 | 7.92 | 374.89 | 3.65 | 14.31 | 12.72 |
| 8/24/2024 11:40 | 15.32 | 179.81 | 0.09 | 7.91 | 374.82 | 3.65 | 13.22 | 12.76 |
| 8/24/2024 11:30 | 15.33 | 179.37 | 0.09 | 7.9  | 374.65 | 3.74 | 13.23 | 12.65 |
| 8/24/2024 11:20 | 15.33 | 179.56 | 0.09 | 7.84 | 375.56 | 3.8  | 16.88 | 12.72 |
| 8/24/2024 11:10 | 15.34 | 179.19 | 0.08 | 7.83 | 376.81 | 3.86 | 12.87 | 12.69 |
| 8/24/2024 11:00 | 15.35 | 180.21 | 0.09 | 7.77 | 377.85 | 3.74 | 15.8  | 12.67 |
| 8/24/2024 10:50 | 15.37 | 179.97 | 0.09 | 7.77 | 377.34 | 3.77 | 12.09 | 12.67 |
| 8/24/2024 10:40 | 15.38 | 170.64 | 0.08 | 7.79 | 376.85 | 3.95 | 10.4  | 12.65 |
| 8/24/2024 10:30 | 15.33 | 151.96 | 0.07 | 7.84 | 375.91 | 4.39 | 10.51 | 12.6  |
| 8/24/2024 10:20 | 15.2  | 148.69 | 0.07 | 7.85 | 374.83 | 4.63 | 11.84 | 12.55 |
| 8/24/2024 10:10 | 15.08 | 137.26 | 0.06 | 7.83 | 373.8  | 4.78 | 11.26 | 12.53 |
| 8/24/2024 10:00 | 15.12 | 166.81 | 0.08 | 7.78 | 372.55 | 4.53 | 12.42 | 12.41 |

**WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25**

|                |       |        |      |      |        |      |       |       |
|----------------|-------|--------|------|------|--------|------|-------|-------|
| 8/24/2024 9:50 | 15.1  | 165.62 | 0.08 | 7.8  | 370.9  | 4.46 | 10.78 | 12.29 |
| 8/24/2024 9:40 | 15.09 | 166.15 | 0.08 | 7.83 | 369.6  | 4.37 | 11.42 | 12.31 |
| 8/24/2024 9:30 | 15.08 | 165.19 | 0.08 | 7.84 | 369.51 | 4.28 | 19.72 | 12.21 |
| 8/24/2024 9:20 | 0     | 0      | 0    | 7.86 | 369.61 | 4.22 | 14.45 | 12.26 |
| 8/24/2024 9:10 | 15.07 | 165.87 | 0.08 | 7.86 | 368.77 | 3.87 | 8.14  | 12.26 |
| 8/24/2024 9:00 | 15.07 | 165.3  | 0.08 | 7.87 | 369    | 3.76 | 8.27  | 12.26 |
| 8/24/2024 8:50 | 15.07 | 165.64 | 0.08 | 7.87 | 368.7  | 3.69 | 9.85  | 12.24 |
| 8/24/2024 8:40 | 15.07 | 165.33 | 0.08 | 7.87 | 368.33 | 3.7  | 7.31  | 12.24 |
| 8/24/2024 8:30 | 15.07 | 163.58 | 0.08 | 7.88 | 368.08 | 3.72 | 8.19  | 12.17 |
| 8/24/2024 8:20 | 15.07 | 163.52 | 0.08 | 7.88 | 368.03 | 3.64 | 7.97  | 12.24 |
| 8/24/2024 8:10 | 15.07 | 161.9  | 0.08 | 7.88 | 367.26 | 3.7  | 6.23  | 12.21 |
| 8/24/2024 8:00 | 15.06 | 161.16 | 0.08 | 7.88 | 367.17 | 3.76 | 10.4  | 12.19 |
| 8/24/2024 7:50 | 15.06 | 159.06 | 0.08 | 7.88 | 366.2  | 3.99 | 34.44 | 12.17 |
| 8/24/2024 7:40 | 15.06 | 156.95 | 0.07 | 7.88 | 366.36 | 4.04 | 7.38  | 12.09 |
| 8/24/2024 7:30 | 15.06 | 152.88 | 0.07 | 7.89 | 365.69 | 4.1  | 8.07  | 12.12 |
| 8/24/2024 7:20 | 15.07 | 149.11 | 0.07 | 7.88 | 365.63 | 4.15 | 6.3   | 12.21 |
| 8/24/2024 7:10 | 15.07 | 145.43 | 0.07 | 7.89 | 365.17 | 4.31 | 5.18  | 12.14 |
| 8/24/2024 7:00 | 15.07 | 143.96 | 0.07 | 7.88 | 365.65 | 4.45 | 8.15  | 12.21 |
| 8/24/2024 6:50 | 15.08 | 142.03 | 0.07 | 7.88 | 364.09 | 4.68 | 6.91  | 12.21 |
| 8/24/2024 6:40 | 15.09 | 139.8  | 0.07 | 7.88 | 364.25 | 4.78 | 7.25  | 12.21 |
| 8/24/2024 6:30 | 15.09 | 137.15 | 0.06 | 7.89 | 363.78 | 5.04 | 8.15  | 12.21 |
| 8/24/2024 6:20 | 15.1  | 133.92 | 0.06 | 7.89 | 364.09 | 5.21 | 7.72  | 12.21 |
| 8/24/2024 6:10 | 15.11 | 133.03 | 0.06 | 7.9  | 363.65 | 5.47 | 22.28 | 12.19 |
| 8/24/2024 6:00 | 15.12 | 130.29 | 0.06 | 7.89 | 363.83 | 5.62 | 8.47  | 12.09 |
| 8/24/2024 5:50 | 15.13 | 128.59 | 0.06 | 7.9  | 364.03 | 5.78 | 9.67  | 12.17 |
| 8/24/2024 5:40 | 15.14 | 127.03 | 0.06 | 7.9  | 365.33 | 5.94 | 9.38  | 12.17 |
| 8/24/2024 5:30 | 15.15 | 127.02 | 0.06 | 7.9  | 365.33 | 6.09 | 5.9   | 12.17 |
| 8/24/2024 5:20 | 15.16 | 126.81 | 0.06 | 7.89 | 365.96 | 6.37 | 9.93  | 12.12 |
| 8/24/2024 5:20 | 15.16 | 126.81 | 0.06 | 7.89 | 365.96 | 6.37 | 9.93  | 12.12 |
| 8/24/2024 5:10 | 15.17 | 125.77 | 0.06 | 7.9  | 366.25 | 6.68 | 8.02  | 12.19 |
| 8/24/2024 5:00 | 15.18 | 126.19 | 0.06 | 7.89 | 367.19 | 6.74 | 7.37  | 12.21 |
| 8/24/2024 4:50 | 15.2  | 126.53 | 0.06 | 7.89 | 367.31 | 6.89 | 6.69  | 12.12 |
| 8/24/2024 4:40 | 15.22 | 126.73 | 0.06 | 7.89 | 367.78 | 7.02 | 5.24  | 12.12 |
| 8/24/2024 4:30 | 15.24 | 128.45 | 0.06 | 7.89 | 367.73 | 7.35 | 5.6   | 12.12 |
| 8/24/2024 4:20 | 0     | 0      | 0    | 7.9  | 368.08 | 7.82 | 6.03  | 12.21 |
| 8/24/2024 4:10 | 15.28 | 130.48 | 0.06 | 7.89 | 367.61 | 7.77 | 6.92  | 12.21 |
| 8/24/2024 4:00 | 15.3  | 131.57 | 0.06 | 7.89 | 367.65 | 8    | 13.07 | 12.21 |
| 8/24/2024 3:50 | 15.33 | 133.46 | 0.06 | 7.89 | 366.52 | 8.61 | 10.53 | 12.21 |
| 8/24/2024 3:40 | 15.36 | 133.67 | 0.06 | 7.89 | 366.38 | 8.8  | 12.67 | 12.24 |
| 8/24/2024 3:30 | 15.38 | 137.82 | 0.06 | 7.9  | 364.99 | 8.78 | 12    | 12.24 |
| 8/24/2024 3:20 | 15.42 | 140.22 | 0.07 | 7.89 | 363.88 | 8.81 | 14.44 | 12.21 |
| 8/24/2024 3:10 | 15.47 | 144.71 | 0.07 | 7.91 | 359.89 | 8.59 | 12.93 | 12.12 |
| 8/24/2024 3:00 | 15.52 | 147.49 | 0.07 | 7.9  | 357.33 | 8.58 | 12.93 | 12.12 |
| 8/24/2024 2:50 | 15.58 | 152.12 | 0.07 | 7.92 | 354.3  | 8.71 | 11.07 | 12.12 |
| 8/24/2024 2:40 | 15.64 | 154.25 | 0.07 | 7.92 | 352.74 | 8.63 | 9.56  | 12.21 |
| 8/24/2024 2:30 | 15.71 | 155.05 | 0.07 | 7.93 | 348.69 | 8.49 | 15.24 | 12.19 |
| 8/24/2024 2:20 | 15.79 | 157.37 | 0.07 | 7.92 | 345.09 | 8.61 | 19.22 | 12.12 |

**WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25**

|                 |       |        |      |      |        |      |       |       |
|-----------------|-------|--------|------|------|--------|------|-------|-------|
| 8/24/2024 2:10  | 15.86 | 162.28 | 0.08 | 7.94 | 345.5  | 8.47 | 10    | 12.12 |
| 8/24/2024 2:00  | 15.92 | 166.15 | 0.08 | 7.93 | 345.57 | 8.33 | 15.38 | 12.24 |
| 8/24/2024 1:50  | 15.98 | 172.74 | 0.08 | 7.94 | 343.44 | 8.38 | 11.25 | 12.24 |
| 8/24/2024 1:40  | 15.97 | 178.56 | 0.08 | 7.94 | 344.24 | 8.27 | 15.47 | 12.17 |
| 8/24/2024 1:30  | 15.94 | 182.62 | 0.09 | 7.95 | 343.9  | 8.27 | 9.91  | 12.24 |
| 8/24/2024 1:20  | 15.96 | 186.12 | 0.09 | 7.94 | 346.23 | 8.38 | 16.03 | 12.24 |
| 8/24/2024 1:10  | 16.08 | 177.65 | 0.08 | 7.96 | 346.19 | 8.46 | 13.92 | 12.24 |
| 8/24/2024 1:00  | 16.19 | 164.04 | 0.08 | 7.97 | 348.72 | 8.45 | 9.4   | 12.14 |
| 8/24/2024 0:50  | 16.21 | 157.88 | 0.07 | 7.97 | 349.07 | 8.52 | 9.23  | 12.21 |
| 8/24/2024 0:40  | 16.24 | 155.66 | 0.07 | 7.98 | 346.63 | 8.52 | 2.91  | 12.21 |
| 8/24/2024 0:30  | 16.24 | 154    | 0.07 | 7.99 | 347.73 | 8.52 | 1.05  | 12.26 |
| 8/24/2024 0:20  | 16.22 | 152.37 | 0.07 | 7.98 | 348.86 | 8.55 | 1.68  | 12.26 |
| 8/24/2024 0:10  | 16.13 | 149.63 | 0.07 | 8    | 348.02 | 8.47 | 3.88  | 12.24 |
| 8/24/2024 0:00  | 15.76 | 178.81 | 0.08 | 7.9  | 357.14 | 8.09 | 6.33  | 12.26 |
| 8/23/2024 23:50 | 15.81 | 178.12 | 0.08 | 7.92 | 351.62 | 8.3  | 2.48  | 12.26 |
| 8/23/2024 23:40 | 15.87 | 171.4  | 0.08 | 7.92 | 347.79 | 8.33 | 4.08  | 12.26 |
| 8/23/2024 23:30 | 15.81 | 158.42 | 0.07 | 7.95 | 352.98 | 8.09 | 7.23  | 12.26 |
| 8/23/2024 23:20 | 15.61 | 186.37 | 0.09 | 7.86 | 359.97 | 7.89 | 6.15  | 12.26 |
| 8/23/2024 23:10 | 15.62 | 180.54 | 0.09 | 7.87 | 355.81 | 7.87 | 5.3   | 12.29 |
| 8/23/2024 23:00 | 15.62 | 173.59 | 0.08 | 7.87 | 355.3  | 8.4  | 5.01  | 12.29 |
| 8/23/2024 22:50 | 15.58 | 167.73 | 0.08 | 7.88 | 353.46 | 8.39 | 4.54  | 12.29 |
| 8/23/2024 22:40 | 15.61 | 184.69 | 0.09 | 7.84 | 362.14 | 7.89 | 17.31 | 12.29 |
| 8/23/2024 22:30 | 15.62 | 199.32 | 0.09 | 7.84 | 362.11 | 7.9  | 3.32  | 12.21 |
| 8/23/2024 22:20 | 15.63 | 195.53 | 0.09 | 7.82 | 362.06 | 7.92 | 5.9   | 12.31 |
| 8/23/2024 22:10 | 15.64 | 191.77 | 0.09 | 7.82 | 359.84 | 8.02 | 7.19  | 12.31 |
| 8/23/2024 22:00 | 15.66 | 189.46 | 0.09 | 7.82 | 358.53 | 8.05 | 2.3   | 12.31 |
| 8/23/2024 21:50 | 15.67 | 190.16 | 0.09 | 7.83 | 356.59 | 8.04 | 1.3   | 12.29 |
| 8/23/2024 21:40 | 15.68 | 189.9  | 0.09 | 7.82 | 357.49 | 8.04 | 1.27  | 12.31 |
| 8/23/2024 21:30 | 15.68 | 187.44 | 0.09 | 7.82 | 354.8  | 8.07 | 1.2   | 12.21 |
| 8/23/2024 21:20 | 15.69 | 185.7  | 0.09 | 7.82 | 352.11 | 8.08 | 2.28  | 12.31 |
| 8/23/2024 21:10 | 15.7  | 186.27 | 0.09 | 7.84 | 347.73 | 8.08 | 1.5   | 12.31 |
| 8/23/2024 21:00 | 15.71 | 187.16 | 0.09 | 7.83 | 347.54 | 8.08 | 1.29  | 12.33 |
| 8/23/2024 20:50 | 15.72 | 187.49 | 0.09 | 7.84 | 345.58 | 8.1  | 0.14  | 12.31 |
| 8/23/2024 20:40 | 15.73 | 187.44 | 0.09 | 7.83 | 346.03 | 8.09 | 0.23  | 12.24 |
| 8/23/2024 20:30 | 15.73 | 187.28 | 0.09 | 7.85 | 345.07 | 8.11 | 0.76  | 12.24 |
| 8/23/2024 20:20 | 15.74 | 187.07 | 0.09 | 7.84 | 345.3  | 8.12 | 0.45  | 12.24 |
| 8/23/2024 20:10 | 15.75 | 186.94 | 0.09 | 7.85 | 343.52 | 8.13 | 0.64  | 12.24 |
| 8/23/2024 20:00 | 15.76 | 187.04 | 0.09 | 7.84 | 343.1  | 8.09 | 0.77  | 12.24 |
| 8/23/2024 19:50 | 15.76 | 186.94 | 0.09 | 7.85 | 343.13 | 8.12 | 0.57  | 12.26 |
| 8/23/2024 19:40 | 15.77 | 186.41 | 0.09 | 7.85 | 344.25 | 8.13 | 1.27  | 12.33 |
| 8/23/2024 19:30 | 15.78 | 186.23 | 0.09 | 7.86 | 343.22 | 8.12 | 0.41  | 12.45 |
| 8/23/2024 19:20 | 15.79 | 186.16 | 0.09 | 7.85 | 344.76 | 8.12 | 0.35  | 12.48 |
| 8/23/2024 19:10 | 15.79 | 186.68 | 0.09 | 7.86 | 344.17 | 8.13 | 0.58  | 12.48 |
| 8/23/2024 19:00 | 15.8  | 186.82 | 0.09 | 7.84 | 343.76 | 8.16 | 0.51  | 12.48 |
| 8/23/2024 18:50 | 15.81 | 186.41 | 0.09 | 7.85 | 341.66 | 8.18 | 0.63  | 12.53 |
| 8/23/2024 18:40 | 15.83 | 186.4  | 0.09 | 7.84 | 340.31 | 8.11 | 0.64  | 12.57 |
| 8/23/2024 18:30 | 15.84 | 187.2  | 0.09 | 7.83 | 340.21 | 8.15 | 0.1   | 12.65 |

**WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25**

|                 |       |        |      |      |        |      |       |       |
|-----------------|-------|--------|------|------|--------|------|-------|-------|
| 8/23/2024 18:20 | 15.85 | 187.32 | 0.09 | 7.84 | 340.86 | 8.13 | 0     | 12.72 |
| 8/23/2024 18:10 | 15.87 | 186.73 | 0.09 | 7.85 | 339.55 | 8.12 | 0     | 12.81 |
| 8/23/2024 18:00 | 15.88 | 186.61 | 0.09 | 7.84 | 339.38 | 8.12 | 1.09  | 12.86 |
| 8/23/2024 17:50 | 15.88 | 186.61 | 0.09 | 7.85 | 339.61 | 8.14 | 0.15  | 12.79 |
| 8/23/2024 17:40 | 15.88 | 186.89 | 0.09 | 7.85 | 340.74 | 8.09 | 0.07  | 12.79 |
| 8/23/2024 17:30 | 15.89 | 187.16 | 0.09 | 7.85 | 341.94 | 8.08 | 0.12  | 12.86 |
| 8/23/2024 17:20 | 15.89 | 187.28 | 0.09 | 7.84 | 344.57 | 8.07 | 0     | 12.76 |
| 8/23/2024 17:10 | 15.9  | 186.42 | 0.09 | 7.85 | 345.02 | 8.13 | 0     | 12.69 |
| 8/23/2024 17:00 | 15.91 | 185.56 | 0.09 | 7.85 | 346.69 | 8.17 | 0     | 12.69 |
| 8/23/2024 16:50 | 15.94 | 185.41 | 0.09 | 7.87 | 346.13 | 8.21 | 0     | 12.67 |
| 8/23/2024 16:40 | 15.97 | 185.01 | 0.09 | 7.86 | 346.25 | 8.2  | 0     | 12.86 |
| 8/23/2024 16:30 | 15.99 | 184.76 | 0.09 | 7.86 | 344.66 | 8.21 | 0.05  | 12.96 |
| 8/23/2024 16:20 | 16.01 | 183.35 | 0.09 | 7.86 | 344.85 | 8.19 | 0.03  | 13.15 |
| 8/23/2024 16:10 | 16.02 | 182.04 | 0.09 | 7.87 | 345.46 | 8.19 | 0.32  | 13.03 |
| 8/23/2024 16:00 | 16.05 | 180.59 | 0.09 | 7.87 | 345.84 | 8.18 | 0     | 12.91 |
| 8/23/2024 15:50 | 16.1  | 179.2  | 0.09 | 7.88 | 345    | 8.2  | 0     | 12.86 |
| 8/23/2024 15:40 | 16.16 | 178.33 | 0.08 | 7.89 | 345.48 | 8.24 | 0     | 12.79 |
| 8/23/2024 15:30 | 16.25 | 177.36 | 0.08 | 7.9  | 343.63 | 8.31 | 0     | 12.79 |
| 8/23/2024 15:20 | 16.4  | 174.17 | 0.08 | 7.91 | 340.69 | 8.33 | 0     | 12.81 |
| 8/23/2024 15:10 | 16.64 | 169.62 | 0.08 | 7.96 | 335.74 | 8.43 | 0     | 12.88 |
| 8/23/2024 15:00 | 16.85 | 166.93 | 0.08 | 8.01 | 329.48 | 8.48 | 0     | 13.03 |
| 8/23/2024 14:50 | 16.87 | 163.23 | 0.08 | 8.04 | 325.66 | 8.5  | 1.35  | 13.29 |
| 8/23/2024 14:40 | 16.63 | 160.26 | 0.08 | 8.01 | 327.56 | 8.53 | 0.73  | 13.15 |
| 8/23/2024 14:30 | 16.04 | 180.74 | 0.09 | 7.87 | 339.54 | 8.34 | 1.38  | 13.1  |
| 8/23/2024 14:20 | 16.11 | 178.99 | 0.08 | 7.88 | 337.5  | 8.38 | 0     | 13.08 |
| 8/23/2024 14:10 | 16.17 | 176.49 | 0.08 | 7.9  | 333.61 | 8.4  | 0.33  | 13.32 |
| 8/23/2024 14:00 | 16.22 | 175.43 | 0.08 | 7.88 | 334.78 | 8.4  | 0.02  | 13.39 |
| 8/23/2024 13:50 | 16.26 | 173.18 | 0.08 | 7.91 | 334.39 | 8.42 | 0     | 13.22 |
| 8/23/2024 13:40 | 16.41 | 169.77 | 0.08 | 7.95 | 330.29 | 8.53 | 0     | 12.88 |
| 8/23/2024 13:30 | 16.55 | 167.26 | 0.08 | 8.01 | 321.36 | 8.48 | 0     | 12.86 |
| 8/23/2024 13:20 | 16.53 | 164.15 | 0.08 | 8.02 | 319.83 | 8.51 | 1.16  | 12.91 |
| 8/23/2024 13:10 | 16.42 | 161.88 | 0.08 | 8.02 | 319.98 | 8.65 | 2.51  | 13    |
| 8/23/2024 13:00 | 16.22 | 157    | 0.07 | 8    | 322.13 | 8.64 | 1.86  | 13.08 |
| 8/23/2024 12:50 | 15.76 | 140.03 | 0.07 | 7.94 | 320.5  | 8.27 | 6.06  | 12.93 |
| 8/23/2024 12:40 | 15.78 | 183.6  | 0.09 | 7.81 | 337.37 | 8.3  | 0.52  | 12.86 |
| 8/23/2024 12:30 | 15.82 | 181.28 | 0.09 | 7.85 | 335.5  | 8.28 | 0.91  | 12.88 |
| 8/23/2024 12:20 | 15.83 | 179.44 | 0.09 | 7.83 | 332.81 | 8.31 | 1.55  | 13    |
| 8/23/2024 12:10 | 15.77 | 177.57 | 0.08 | 7.85 | 332.11 | 8.32 | 3.12  | 12.81 |
| 8/23/2024 12:00 | 15.72 | 175.35 | 0.08 | 7.83 | 329.56 | 8.36 | 0.36  | 12.67 |
| 8/23/2024 11:50 | 15.71 | 173.88 | 0.08 | 7.83 | 327.65 | 8.42 | 0.22  | 12.53 |
| 8/23/2024 11:40 | 15.72 | 171.65 | 0.08 | 7.82 | 324.23 | 8.47 | 0     | 12.5  |
| 8/23/2024 11:30 | 15.75 | 168.7  | 0.08 | 7.86 | 317.99 | 8.52 | 0     | 12.5  |
| 8/23/2024 11:20 | 15.79 | 163.98 | 0.08 | 7.88 | 312.96 | 8.6  | 0     | 12.55 |
| 8/23/2024 11:10 | 15.85 | 158.38 | 0.07 | 7.91 | 311.67 | 8.67 | 0     | 12.62 |
| 8/23/2024 11:00 | 15.83 | 150.48 | 0.07 | 7.92 | 306.19 | 8.71 | 0.03  | 12.65 |
| 8/23/2024 10:50 | 15.52 | 137.43 | 0.06 | 7.9  | 295.25 | 8.56 | 1.05  | 12.53 |
| 8/23/2024 10:40 | 15.6  | 9.8    | 0    | 7.79 | 271.34 | 8.62 | 550.5 | 12.62 |

**WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25**

|                 |       |        |     |      |        |      |       |       |
|-----------------|-------|--------|-----|------|--------|------|-------|-------|
| 8/23/2024 10:30 | 15.75 | 203.51 | 0.1 | 7.77 | 292.93 | 8.27 | 4.55  | 12.6  |
| 8/23/2024 10:20 | 15.75 | 204.21 | 0.1 | 7.75 | 320.36 | 8.25 | 5.87  | 12.55 |
| 8/23/2024 10:10 | 15.73 | 203.66 | 0.1 | 7.75 | 320.98 | 8.27 | 3.49  | 12.57 |
| 8/23/2024 10:00 | 15.73 | 203.24 | 0.1 | 7.76 | 322.42 | 8.28 | 5.87  | 12.53 |
| 8/23/2024 9:50  | 15.73 | 202.34 | 0.1 | 7.76 | 320.17 | 8.26 | 5.51  | 12.38 |
| 8/23/2024 9:40  | 15.72 | 201.88 | 0.1 | 7.77 | 317.19 | 8.25 | 6.55  | 12.38 |
| 8/23/2024 9:30  | 15.72 | 203.48 | 0.1 | 7.75 | 310.81 | 8.23 | 3.24  | 12.43 |
| 8/23/2024 9:20  | 15.72 | 202.99 | 0.1 | 7.76 | 309.17 | 8.23 | 3.11  | 12.48 |
| 8/23/2024 9:10  | 15.74 | 203.38 | 0.1 | 7.75 | 312.91 | 8.23 | 4.11  | 12.48 |
| 8/23/2024 9:00  | 15.73 | 203.34 | 0.1 | 7.75 | 314.4  | 8.23 | 3.59  | 12.41 |
| 8/23/2024 8:50  | 15.73 | 203.26 | 0.1 | 7.76 | 315.99 | 8.22 | 3.81  | 12.36 |
| 8/23/2024 8:40  | 15.73 | 203.02 | 0.1 | 7.76 | 314.78 | 8.23 | 2.82  | 12.38 |
| 8/23/2024 8:30  | 15.73 | 203.36 | 0.1 | 7.75 | 312.49 | 8.23 | 2.98  | 12.38 |
| 8/23/2024 8:20  | 15.73 | 203.46 | 0.1 | 7.75 | 310.54 | 8.25 | 4.23  | 12.36 |
| 8/23/2024 8:10  | 15.73 | 203.71 | 0.1 | 7.75 | 310.02 | 8.24 | 4.85  | 12.31 |
| 8/23/2024 8:00  | 15.73 | 203.54 | 0.1 | 7.76 | 308.46 | 8.24 | 10.84 | 12.41 |
| 8/23/2024 7:50  | 15.73 | 203.44 | 0.1 | 7.76 | 301.87 | 8.25 | 9.22  | 12.33 |
| 8/23/2024 7:40  | 15.73 | 203.15 | 0.1 | 7.77 | 299.27 | 8.25 | 53.32 | 12.41 |
| 8/23/2024 7:30  | 15.71 | 202.45 | 0.1 | 7.78 | 302.82 | 8.26 | 27.05 | 12.31 |
| 8/23/2024 7:20  | 15.7  | 201.98 | 0.1 | 7.79 | 309.08 | 8.26 | 6.84  | 12.36 |
| 8/23/2024 7:10  | 15.69 | 201.78 | 0.1 | 7.79 | 304.71 | 8.26 | 5.39  | 12.29 |
| 8/23/2024 7:00  | 15.69 | 201.68 | 0.1 | 7.8  | 297.39 | 8.26 | 4.96  | 12.24 |
| 8/23/2024 6:50  | 15.69 | 201.82 | 0.1 | 7.8  | 297.36 | 8.27 | 3.32  | 12.31 |
| 8/23/2024 6:40  | 15.7  | 202.06 | 0.1 | 7.8  | 305.52 | 8.26 | 3.11  | 12.29 |
| 8/23/2024 6:30  | 15.7  | 202.36 | 0.1 | 7.79 | 305.02 | 8.25 | 5.17  | 12.29 |
| 8/23/2024 6:20  | 15.71 | 202    | 0.1 | 7.79 | 306.6  | 8.25 | 13.44 | 12.29 |
| 8/23/2024 6:10  | 15.71 | 201.68 | 0.1 | 7.79 | 310.59 | 8.25 | 3.42  | 12.29 |
| 8/23/2024 6:00  | 15.71 | 201.57 | 0.1 | 7.8  | 303.72 | 8.26 | 19.4  | 12.29 |
| 8/23/2024 5:50  | 15.72 | 201.69 | 0.1 | 7.8  | 315.63 | 8.25 | 2.69  | 12.17 |
| 8/23/2024 5:40  | 15.72 | 202.21 | 0.1 | 7.78 | 313.91 | 8.25 | 4.09  | 12.17 |
| 8/23/2024 5:30  | 15.72 | 202.45 | 0.1 | 7.78 | 317.94 | 8.25 | 3     | 12.24 |
| 8/23/2024 5:20  | 15.73 | 202.87 | 0.1 | 7.77 | 317.92 | 8.24 | 5.16  | 12.24 |
| 8/23/2024 5:10  | 15.73 | 202.25 | 0.1 | 7.76 | 316.4  | 8.23 | 8.95  | 12.29 |
| 8/23/2024 5:00  | 15.73 | 202.78 | 0.1 | 7.77 | 310.55 | 8.25 | 3.83  | 12.19 |
| 8/23/2024 4:50  | 15.74 | 203.28 | 0.1 | 7.76 | 308.63 | 8.24 | 2.81  | 12.19 |
| 8/23/2024 4:40  | 15.74 | 203.67 | 0.1 | 7.74 | 312.95 | 8.24 | 3.82  | 12.29 |
| 8/23/2024 4:30  | 15.74 | 203.73 | 0.1 | 7.74 | 305.03 | 8.25 | 3.22  | 12.19 |
| 8/23/2024 4:20  | 15.74 | 203.53 | 0.1 | 7.75 | 314.91 | 8.26 | 5.1   | 12.19 |
| 8/23/2024 4:10  | 15.74 | 202.6  | 0.1 | 7.76 | 314.2  | 8.26 | 4.71  | 12.21 |
| 8/23/2024 4:00  | 15.74 | 202.99 | 0.1 | 7.75 | 314.82 | 8.26 | 4.85  | 12.29 |
| 8/23/2024 3:50  | 15.72 | 203.37 | 0.1 | 7.75 | 303.78 | 8.25 | 3.26  | 12.31 |
| 8/23/2024 3:40  | 15.72 | 203.34 | 0.1 | 7.76 | 300.19 | 8.26 | 3.12  | 12.31 |
| 8/23/2024 3:30  | 15.71 | 203.47 | 0.1 | 7.76 | 297.08 | 8.25 | 2.54  | 12.31 |
| 8/23/2024 3:20  | 15.71 | 203.38 | 0.1 | 7.76 | 310.41 | 8.26 | 4.82  | 12.31 |
| 8/23/2024 3:10  | 15.71 | 202.6  | 0.1 | 7.78 | 303.26 | 8.27 | 3.03  | 12.31 |
| 8/23/2024 3:00  | 15.7  | 201.83 | 0.1 | 7.79 | 313.25 | 8.28 | 3.04  | 12.31 |
| 8/23/2024 2:50  | 15.7  | 201.33 | 0.1 | 7.79 | 311.82 | 8.28 | 5.86  | 12.31 |

**WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25**

|                 |       |        |     |      |        |      |       |       |
|-----------------|-------|--------|-----|------|--------|------|-------|-------|
| 8/23/2024 2:40  | 15.71 | 202.36 | 0.1 | 7.79 | 305.21 | 8.26 | 4.71  | 12.31 |
| 8/23/2024 2:30  | 15.71 | 203.32 | 0.1 | 7.76 | 315.05 | 8.25 | 2.24  | 12.31 |
| 8/23/2024 2:20  | 15.71 | 203.3  | 0.1 | 7.76 | 312.41 | 8.25 | 2.85  | 12.31 |
| 8/23/2024 2:10  | 15.71 | 203.01 | 0.1 | 7.76 | 313.6  | 8.26 | 3.88  | 12.31 |
| 8/23/2024 2:00  | 15.7  | 201.95 | 0.1 | 7.78 | 314.77 | 8.26 | 12.95 | 12.31 |
| 8/23/2024 1:50  | 15.7  | 200.74 | 0.1 | 7.79 | 318.94 | 8.27 | 27.83 | 12.31 |
| 8/23/2024 1:40  | 15.71 | 201.94 | 0.1 | 7.79 | 317.78 | 8.28 | 5.22  | 12.31 |
| 8/23/2024 1:30  | 15.72 | 203.22 | 0.1 | 7.76 | 315.54 | 8.26 | 4.47  | 12.31 |
| 8/23/2024 1:20  | 15.71 | 202.77 | 0.1 | 7.77 | 309.48 | 8.25 | 6.13  | 12.31 |
| 8/23/2024 1:10  | 15.7  | 202.39 | 0.1 | 7.78 | 315.73 | 8.27 | 7.68  | 12.33 |
| 8/23/2024 1:00  | 15.7  | 201.72 | 0.1 | 7.8  | 314.99 | 8.28 | 5.7   | 12.31 |
| 8/23/2024 0:50  | 15.69 | 201.36 | 0.1 | 7.8  | 316.33 | 8.28 | 2.16  | 12.31 |
| 8/23/2024 0:40  | 15.68 | 201.4  | 0.1 | 7.8  | 317.23 | 8.28 | 2.83  | 12.29 |
| 8/23/2024 0:30  | 15.68 | 201.06 | 0.1 | 7.8  | 317.67 | 8.28 | 2.23  | 12.29 |
| 8/23/2024 0:20  | 15.69 | 200.95 | 0.1 | 7.8  | 317.52 | 8.28 | 2.8   | 12.29 |
| 8/23/2024 0:10  | 15.69 | 201.22 | 0.1 | 7.8  | 318.36 | 8.28 | 3.59  | 12.31 |
| 8/23/2024 0:00  | 15.7  | 201.01 | 0.1 | 7.8  | 317.77 | 8.28 | 2.8   | 12.33 |
| 8/22/2024 23:50 | 15.7  | 201.09 | 0.1 | 7.8  | 317.96 | 8.29 | 3.09  | 12.33 |
| 8/22/2024 23:40 | 0     | 0      | 0   | 7.81 | 317.98 | 8.55 | 3.32  | 12.33 |
| 8/22/2024 23:30 | 15.71 | 201.05 | 0.1 | 7.8  | 317.35 | 8.28 | 2.16  | 12.33 |
| 8/22/2024 23:20 | 15.73 | 201.48 | 0.1 | 7.8  | 317.55 | 8.27 | 3.62  | 12.33 |
| 8/22/2024 23:10 | 15.74 | 201.65 | 0.1 | 7.79 | 316.65 | 8.27 | 4.51  | 12.33 |
| 8/22/2024 23:00 | 15.75 | 201.3  | 0.1 | 7.79 | 314.96 | 8.27 | 6.05  | 12.33 |
| 8/22/2024 22:50 | 15.75 | 201.47 | 0.1 | 7.79 | 315.14 | 8.28 | 7.23  | 12.26 |
| 8/22/2024 22:40 | 15.75 | 201.12 | 0.1 | 7.79 | 316.76 | 8.27 | 7.01  | 12.26 |
| 8/22/2024 22:30 | 15.75 | 201.2  | 0.1 | 7.79 | 317.01 | 8.26 | 2.97  | 12.36 |
| 8/22/2024 22:20 | 15.76 | 201.17 | 0.1 | 7.79 | 317.17 | 8.26 | 3.88  | 12.26 |
| 8/22/2024 22:10 | 15.77 | 200.88 | 0.1 | 7.79 | 317.28 | 8.27 | 4.21  | 12.24 |
| 8/22/2024 22:00 | 15.78 | 200.95 | 0.1 | 7.79 | 317.27 | 8.26 | 2.56  | 12.26 |
| 8/22/2024 21:50 | 15.79 | 200.92 | 0.1 | 7.78 | 317.48 | 8.26 | 4.1   | 12.36 |
| 8/22/2024 21:40 | 15.8  | 201.05 | 0.1 | 7.78 | 316.69 | 8.26 | 4.76  | 12.36 |
| 8/22/2024 21:30 | 15.81 | 201.36 | 0.1 | 7.77 | 315.7  | 8.26 | 2.6   | 12.38 |
| 8/22/2024 21:20 | 15.82 | 201.63 | 0.1 | 7.77 | 315.06 | 8.26 | 3.02  | 12.38 |
| 8/22/2024 21:10 | 15.83 | 201.62 | 0.1 | 7.77 | 312.59 | 8.26 | 3.62  | 12.38 |
| 8/22/2024 21:00 | 15.84 | 201.48 | 0.1 | 7.76 | 313.25 | 8.26 | 3.93  | 12.38 |
| 8/22/2024 20:50 | 15.84 | 201.09 | 0.1 | 7.78 | 313.77 | 8.26 | 2.55  | 12.38 |
| 8/22/2024 20:40 | 15.84 | 201.33 | 0.1 | 7.77 | 313.98 | 8.27 | 5.16  | 12.38 |
| 8/22/2024 20:30 | 15.85 | 201.19 | 0.1 | 7.77 | 313.54 | 8.27 | 3.46  | 12.29 |
| 8/22/2024 20:20 | 15.85 | 201.52 | 0.1 | 7.76 | 313.83 | 8.26 | 4.57  | 12.43 |
| 8/22/2024 20:10 | 15.87 | 201.21 | 0.1 | 7.76 | 314    | 8.26 | 2.65  | 12.74 |
| 8/22/2024 20:00 | 15.88 | 201.46 | 0.1 | 7.75 | 314.52 | 8.25 | 3.98  | 12.86 |
| 8/22/2024 19:50 | 15.89 | 201.36 | 0.1 | 7.75 | 315.2  | 8.26 | 4.79  | 12.93 |
| 8/22/2024 19:40 | 15.9  | 201.09 | 0.1 | 7.75 | 315.89 | 8.25 | 3.46  | 12.98 |
| 8/22/2024 19:30 | 15.91 | 201.14 | 0.1 | 7.75 | 315.23 | 8.25 | 3.33  | 13.03 |
| 8/22/2024 19:20 | 15.92 | 201.34 | 0.1 | 7.75 | 314.4  | 8.25 | 3.96  | 13.05 |
| 8/22/2024 19:10 | 15.93 | 201.7  | 0.1 | 7.75 | 314.03 | 8.26 | 4.01  | 13.08 |
| 8/22/2024 19:00 | 15.94 | 201.49 | 0.1 | 7.74 | 314.18 | 8.26 | 3.42  | 13.15 |

**WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25**

|                 |       |        |      |      |        |      |      |       |
|-----------------|-------|--------|------|------|--------|------|------|-------|
| 8/22/2024 18:50 | 15.95 | 201.39 | 0.1  | 7.75 | 312.77 | 8.27 | 1.88 | 13.29 |
| 8/22/2024 18:40 | 15.96 | 200.52 | 0.1  | 7.76 | 312.95 | 8.28 | 2.05 | 13.32 |
| 8/22/2024 18:30 | 15.96 | 201.07 | 0.1  | 7.75 | 312.9  | 8.27 | 1.7  | 13.34 |
| 8/22/2024 18:20 | 15.97 | 201.08 | 0.1  | 7.75 | 313.84 | 8.28 | 3.41 | 13.2  |
| 8/22/2024 18:10 | 15.96 | 201.03 | 0.1  | 7.75 | 313.52 | 8.27 | 2.07 | 13.03 |
| 8/22/2024 18:00 | 15.95 | 201.01 | 0.1  | 7.75 | 312.61 | 8.27 | 3.21 | 12.98 |
| 8/22/2024 17:50 | 15.96 | 200.96 | 0.1  | 7.75 | 311.72 | 8.28 | 1.89 | 13.08 |
| 8/22/2024 17:40 | 15.96 | 200.85 | 0.1  | 7.76 | 312    | 8.28 | 2.43 | 13.22 |
| 8/22/2024 17:30 | 15.97 | 200.92 | 0.1  | 7.76 | 311.31 | 8.29 | 2.77 | 13.22 |
| 8/22/2024 17:20 | 15.99 | 201.15 | 0.1  | 7.76 | 311.71 | 8.29 | 2.24 | 13.24 |
| 8/22/2024 17:10 | 16.02 | 200.74 | 0.1  | 7.78 | 310.36 | 8.31 | 6.75 | 13.51 |
| 8/22/2024 17:00 | 16    | 199.73 | 0.1  | 7.79 | 310.22 | 8.31 | 2.86 | 13.53 |
| 8/22/2024 16:50 | 16    | 198.92 | 0.09 | 7.8  | 309.9  | 8.32 | 2.95 | 13.27 |
| 8/22/2024 16:40 | 16    | 199.31 | 0.09 | 7.79 | 309.81 | 8.32 | 2.21 | 13.48 |
| 8/22/2024 16:30 | 16    | 199.09 | 0.09 | 7.78 | 308.67 | 8.32 | 3.1  | 13.27 |
| 8/22/2024 16:20 | 16    | 198.49 | 0.09 | 7.81 | 309.04 | 8.32 | 3.55 | 13.24 |
| 8/22/2024 16:10 | 16.03 | 198.42 | 0.09 | 7.81 | 307.74 | 8.33 | 3.09 | 13.44 |
| 8/22/2024 16:00 | 0     | 0      | 0    | 7.82 | 307.89 | 8.63 | 3.27 | 13.27 |
| 8/22/2024 15:50 | 16.06 | 199.1  | 0.09 | 7.81 | 303.68 | 8.35 | 7.15 | 13.39 |
| 8/22/2024 15:40 | 16.05 | 198.87 | 0.09 | 7.81 | 305.71 | 8.34 | 3.81 | 13.48 |
| 8/22/2024 15:30 | 16.06 | 198.71 | 0.09 | 7.82 | 306.68 | 8.35 | 3.31 | 13.48 |
| 8/22/2024 15:20 | 16.05 | 199.9  | 0.1  | 7.8  | 305.37 | 8.33 | 4.49 | 13.46 |
| 8/22/2024 15:10 | 16.09 | 200.23 | 0.1  | 7.8  | 306.17 | 8.35 | 2.35 | 13.48 |
| 8/22/2024 15:00 | 16.05 | 200.5  | 0.1  | 7.79 | 305.98 | 8.35 | 2.75 | 13.48 |
| 8/22/2024 14:50 | 16.04 | 200.39 | 0.1  | 7.8  | 305.14 | 8.35 | 1.8  | 13.39 |
| 8/22/2024 14:40 | 16.06 | 199.78 | 0.1  | 7.81 | 303.8  | 8.36 | 3.81 | 13.46 |
| 8/22/2024 14:30 | 16.07 | 199.93 | 0.1  | 7.82 | 302.11 | 8.37 | 3.98 | 13.48 |
| 8/22/2024 14:20 | 16.05 | 199.65 | 0.09 | 7.81 | 301.15 | 8.35 | 2.98 | 13.48 |
| 8/22/2024 14:10 | 16.06 | 199.19 | 0.09 | 7.82 | 300.19 | 8.35 | 2.48 | 13.29 |
| 8/22/2024 14:00 | 16.09 | 199.08 | 0.09 | 7.82 | 301.62 | 8.36 | 2.97 | 13.48 |
| 8/22/2024 13:50 | 16.15 | 199.22 | 0.09 | 7.82 | 301.04 | 8.36 | 3.31 | 13.46 |
| 8/22/2024 13:40 | 16.13 | 199.26 | 0.09 | 7.82 | 302.35 | 8.38 | 2.41 | 13.48 |
| 8/22/2024 13:30 | 16.09 | 199.68 | 0.09 | 7.81 | 303.97 | 8.38 | 2.8  | 13.48 |
| 8/22/2024 13:20 | 16.07 | 200.04 | 0.1  | 7.8  | 301.28 | 8.39 | 4.72 | 13.36 |
| 8/22/2024 13:10 | 16.1  | 200.28 | 0.1  | 7.78 | 301.98 | 8.39 | 1.74 | 13.44 |
| 8/22/2024 13:00 | 16.08 | 199.53 | 0.09 | 7.79 | 301.33 | 8.4  | 3.75 | 13.44 |
| 8/22/2024 12:50 | 16.04 | 200.06 | 0.1  | 7.77 | 300.52 | 8.38 | 7.34 | 13.27 |
| 8/22/2024 12:40 | 16.02 | 200.01 | 0.1  | 7.77 | 301.69 | 8.34 | 2.66 | 12.84 |
| 8/22/2024 12:30 | 16.09 | 197.29 | 0.09 | 7.81 | 305.44 | 8.39 | 2.23 | 13.05 |
| 8/22/2024 12:20 | 16.18 | 200.2  | 0.1  | 7.83 | 311.27 | 8.37 | 3.91 | 13.12 |
| 8/22/2024 12:10 | 16.26 | 199.99 | 0.1  | 7.84 | 310.11 | 8.35 | 2.47 | 13.32 |
| 8/22/2024 12:00 | 16.25 | 200.55 | 0.1  | 7.83 | 308.58 | 8.37 | 2.31 | 13.32 |
| 8/22/2024 11:50 | 16.19 | 201.01 | 0.1  | 7.83 | 302.6  | 8.38 | 1.57 | 13.17 |
| 8/22/2024 11:40 | 16.19 | 201.57 | 0.1  | 7.83 | 294.12 | 8.37 | 2.97 | 13.15 |
| 8/22/2024 11:30 | 16.16 | 201.12 | 0.1  | 7.83 | 302.68 | 8.36 | 2.39 | 13.12 |
| 8/22/2024 11:20 | 0     | 0      | 0    | 7.83 | 303.03 | 8.7  | 2.92 | 13.08 |
| 8/22/2024 11:10 | 16.08 | 202.18 | 0.1  | 7.82 | 300.79 | 8.37 | 3.22 | 13    |

**WLNG Downstream Raw Sonde Data 2024-08-22 to 2024-08-25**

|                 |       |        |     |      |        |      |        |       |
|-----------------|-------|--------|-----|------|--------|------|--------|-------|
| 8/22/2024 11:00 | 16.07 | 201.62 | 0.1 | 7.83 | 281.59 | 8.38 | 9.4    | 12.84 |
| 8/22/2024 10:50 | 16.06 | 201.42 | 0.1 | 7.81 | 303.23 | 8.33 | 52.19  | 12.88 |
| 8/22/2024 10:40 | 16.11 | 201.51 | 0.1 | 7.83 | 305.6  | 8.37 | 2.77   | 12.88 |
| 8/22/2024 10:30 | 16.05 | 201.88 | 0.1 | 7.83 | 302.09 | 8.4  | 13.22  | 12.91 |
| 8/22/2024 10:20 | 15.98 | 202.29 | 0.1 | 7.82 | 313.29 | 8.41 | 24.54  | 12.76 |
| 8/22/2024 10:10 | 15.91 | 202.03 | 0.1 | 7.82 | 313.46 | 8.4  | 3.02   | 12.76 |
| 8/22/2024 10:00 | 15.95 | 201.9  | 0.1 | 7.84 | 302.78 | 8.4  | 26.45  | 12.69 |
| 8/22/2024 9:50  | 15.93 | 202.17 | 0.1 | 7.78 | 286.25 | 8.22 | 273.66 | 12.65 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

| Received        | Specific Conductivity |        |          |               | Dissolved Oxygen |        |      |       |  | TL Battery V |
|-----------------|-----------------------|--------|----------|---------------|------------------|--------|------|-------|--|--------------|
|                 | Temperature           |        | Salinity | Concentration | Turbidity        |        |      |       |  |              |
|                 | C                     | ÂµS/cm | PSU      | pH            | pH               | ORP mV | mg/L | NTU   |  |              |
| 8/25/2024 23:50 | 14.97                 | 27.88  | 0.01     | 7.19          | 418.68           | 8.88   | 1.06 | 12.24 |  |              |
| 8/25/2024 23:40 | 14.98                 | 28     | 0.01     | 7.18          | 418.56           | 8.88   | 0.48 | 12.24 |  |              |
| 8/25/2024 23:30 | 14.99                 | 28.28  | 0.01     | 7.2           | 416.95           | 8.88   | 0.48 | 12.24 |  |              |
| 8/25/2024 23:20 | 15.01                 | 28.71  | 0.01     | 7.2           | 417.18           | 8.88   | 0.47 | 12.26 |  |              |
| 8/25/2024 23:10 | 15.02                 | 28.93  | 0.01     | 7.23          | 417.09           | 8.87   | 0.47 | 12.14 |  |              |
| 8/25/2024 23:00 | 15.04                 | 29.43  | 0.01     | 7.22          | 416.35           | 8.87   | 0.49 | 12.24 |  |              |
| 8/25/2024 22:50 | 15.05                 | 29.59  | 0.01     | 7.26          | 414.51           | 8.88   | 0.5  | 12.14 |  |              |
| 8/25/2024 22:40 | 15.07                 | 30.28  | 0.01     | 7.21          | 416.08           | 8.86   | 0.5  | 12.17 |  |              |
| 8/25/2024 22:30 | 15.08                 | 30.64  | 0.01     | 7.24          | 415.24           | 8.86   | 0.47 | 12.17 |  |              |
| 8/25/2024 22:20 | 15.1                  | 31.41  | 0.02     | 7.2           | 415.69           | 8.85   | 0.48 | 12.24 |  |              |
| 8/25/2024 22:10 | 15.11                 | 31.59  | 0.02     | 7.24          | 414.28           | 8.87   | 0.51 | 12.26 |  |              |
| 8/25/2024 22:00 | 15.13                 | 32.35  | 0.02     | 7.2           | 415.48           | 8.86   | 0.49 | 12.26 |  |              |
| 8/25/2024 21:50 | 15.14                 | 32.82  | 0.02     | 7.24          | 414.34           | 8.86   | 0.51 | 12.26 |  |              |
| 8/25/2024 21:40 | 15.15                 | 33.66  | 0.02     | 7.23          | 414.19           | 8.85   | 0.62 | 12.24 |  |              |
| 8/25/2024 21:30 | 15.16                 | 34.17  | 0.02     | 7.26          | 412.92           | 8.86   | 0.51 | 12.29 |  |              |
| 8/25/2024 21:20 | 15.18                 | 35.24  | 0.02     | 7.2           | 414.02           | 8.85   | 0.53 | 12.29 |  |              |
| 8/25/2024 21:10 | 15.19                 | 36.23  | 0.02     | 7.22          | 413.07           | 8.85   | 0.47 | 12.29 |  |              |
| 8/25/2024 21:00 | 15.2                  | 37.42  | 0.02     | 7.21          | 412.73           | 8.84   | 0.49 | 12.29 |  |              |
| 8/25/2024 20:50 | 15.21                 | 38.27  | 0.02     | 7.27          | 409.5            | 8.84   | 0.51 | 12.19 |  |              |
| 8/25/2024 20:40 | 15.22                 | 40.06  | 0.02     | 7.23          | 411.53           | 8.83   | 0.49 | 12.29 |  |              |
| 8/25/2024 20:30 | 15.23                 | 41.45  | 0.02     | 7.22          | 412.15           | 8.83   | 0.48 | 12.19 |  |              |
| 8/25/2024 20:20 | 15.25                 | 43.09  | 0.02     | 7.22          | 411.17           | 8.85   | 0.48 | 12.31 |  |              |
| 8/25/2024 20:10 | 15.26                 | 44.43  | 0.02     | 7.22          | 411.79           | 8.84   | 0.49 | 12.24 |  |              |
| 8/25/2024 20:00 | 15.27                 | 46.91  | 0.02     | 7.22          | 410.61           | 8.85   | 0.52 | 12.31 |  |              |
| 8/25/2024 19:50 | 15.28                 | 48.36  | 0.02     | 7.27          | 408.62           | 8.83   | 0.49 | 12.33 |  |              |
| 8/25/2024 19:40 | 15.29                 | 50.1   | 0.03     | 7.23          | 409.94           | 8.87   | 0.48 | 12.36 |  |              |
| 8/25/2024 19:30 | 15.3                  | 50.81  | 0.03     | 7.25          | 408.94           | 8.86   | 0.48 | 12.26 |  |              |
| 8/25/2024 19:20 | 15.32                 | 52.44  | 0.03     | 7.25          | 408.65           | 8.84   | 0.49 | 12.26 |  |              |
| 8/25/2024 19:10 | 15.32                 | 53.52  | 0.03     | 7.31          | 404.85           | 8.85   | 0.48 | 12.29 |  |              |
| 8/25/2024 19:00 | 15.34                 | 55.13  | 0.03     | 7.28          | 406.88           | 8.88   | 0.53 | 12.5  |  |              |
| 8/25/2024 19:00 | 15.34                 | 55.13  | 0.03     | 7.28          | 406.88           | 8.88   | 0.53 | 12.5  |  |              |
| 8/25/2024 18:50 | 15.35                 | 56.19  | 0.03     | 7.29          | 406.89           | 8.87   | 0.5  | 12.55 |  |              |
| 8/25/2024 18:40 | 15.36                 | 58.24  | 0.03     | 7.27          | 406.56           | 8.9    | 0.48 | 12.62 |  |              |
| 8/25/2024 18:30 | 15.36                 | 59.43  | 0.03     | 7.29          | 406.59           | 8.9    | 0.5  | 12.65 |  |              |
| 8/25/2024 18:20 | 15.37                 | 62.72  | 0.03     | 7.27          | 405.99           | 8.91   | 0.51 | 12.67 |  |              |
| 8/25/2024 18:10 | 15.37                 | 64.3   | 0.03     | 7.3           | 405.4            | 8.94   | 0.49 | 12.76 |  |              |
| 8/25/2024 18:00 | 15.37                 | 67.04  | 0.03     | 7.28          | 405.54           | 8.96   | 0.51 | 12.81 |  |              |
| 8/25/2024 17:50 | 15.36                 | 68.38  | 0.04     | 7.33          | 404.45           | 8.95   | 0.48 | 12.88 |  |              |
| 8/25/2024 17:40 | 15.35                 | 70.77  | 0.04     | 7.27          | 405.18           | 8.94   | 0.51 | 12.81 |  |              |
| 8/25/2024 17:30 | 15.35                 | 71.95  | 0.04     | 7.3           | 405.54           | 8.94   | 0.51 | 12.74 |  |              |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/25/2024 17:20 | 15.35 | 74.71 | 0.04 | 7.31 | 404.86 | 8.94 | 0.49 | 12.65 |
| 8/25/2024 17:10 | 15.34 | 76.73 | 0.04 | 7.31 | 404.48 | 8.99 | 0.52 | 12.69 |
| 8/25/2024 17:00 | 15.33 | 78.63 | 0.04 | 7.32 | 404.01 | 8.99 | 0.51 | 12.88 |
| 8/25/2024 16:50 | 15.32 | 78.91 | 0.04 | 7.36 | 402.16 | 8.98 | 0.48 | 13.05 |
| 8/25/2024 16:40 | 15.3  | 80.21 | 0.04 | 7.31 | 404.7  | 8.97 | 0.48 | 12.86 |
| 8/25/2024 16:30 | 15.29 | 81.2  | 0.04 | 7.29 | 406.11 | 8.96 | 0.48 | 12.81 |
| 8/25/2024 16:20 | 15.28 | 82.23 | 0.04 | 7.29 | 405.73 | 8.95 | 0.5  | 12.88 |
| 8/25/2024 16:10 | 15.28 | 80.85 | 0.04 | 7.33 | 405.95 | 8.95 | 0.51 | 12.76 |
| 8/25/2024 16:00 | 15.27 | 80.18 | 0.04 | 7.29 | 406.23 | 8.93 | 0.5  | 12.76 |
| 8/25/2024 15:50 | 15.27 | 78.62 | 0.04 | 7.3  | 406.13 | 8.97 | 0.51 | 12.67 |
| 8/25/2024 15:40 | 15.27 | 78.68 | 0.04 | 7.29 | 405.64 | 8.97 | 0.56 | 12.72 |
| 8/25/2024 15:30 | 15.26 | 78.5  | 0.04 | 7.32 | 405.46 | 8.99 | 0.5  | 12.84 |
| 8/25/2024 15:20 | 15.25 | 77.41 | 0.04 | 7.29 | 406.13 | 9.01 | 0.48 | 12.96 |
| 8/25/2024 15:10 | 15.23 | 75.24 | 0.04 | 7.29 | 407.11 | 9.02 | 0.49 | 12.84 |
| 8/25/2024 15:00 | 15.21 | 73.75 | 0.04 | 7.27 | 407.61 | 9.04 | 0.5  | 12.96 |
| 8/25/2024 14:50 | 15.2  | 72.74 | 0.04 | 7.28 | 407.3  | 9.01 | 0.5  | 12.86 |
| 8/25/2024 14:40 | 15.19 | 70.78 | 0.04 | 7.27 | 407.79 | 9.04 | 0.48 | 12.88 |
| 8/25/2024 14:30 | 15.18 | 68.13 | 0.04 | 7.31 | 408    | 9.05 | 0.47 | 12.96 |
| 8/25/2024 14:20 | 15.17 | 64.63 | 0.03 | 7.26 | 409.26 | 9.05 | 0.49 | 12.93 |
| 8/25/2024 14:10 | 15.15 | 61.01 | 0.03 | 7.25 | 408.88 | 9.05 | 0.49 | 12.93 |
| 8/25/2024 14:00 | 15.14 | 54.21 | 0.03 | 7.23 | 410.2  | 9.05 | 0.51 | 12.81 |
| 8/25/2024 13:50 | 15.12 | 45.23 | 0.02 | 7.23 | 410.9  | 9.07 | 0.53 | 12.79 |
| 8/25/2024 13:40 | 15.11 | 35.17 | 0.02 | 7.27 | 409.68 | 9.07 | 0.48 | 12.91 |
| 8/25/2024 13:30 | 15.09 | 28.68 | 0.01 | 7.3  | 408.31 | 9.03 | 0.49 | 12.84 |
| 8/25/2024 13:20 | 15.09 | 24.15 | 0.01 | 7.26 | 409.16 | 9.06 | 0.51 | 12.81 |
| 8/25/2024 13:10 | 15.09 | 22.77 | 0.01 | 7.33 | 407.12 | 9.07 | 0.5  | 12.69 |
| 8/25/2024 13:00 | 15.08 | 22.83 | 0.01 | 7.26 | 408.77 | 9.07 | 0.49 | 12.76 |
| 8/25/2024 12:50 | 15.08 | 22.76 | 0.01 | 7.29 | 407.92 | 9.07 | 0.52 | 12.72 |
| 8/25/2024 12:40 | 15.06 | 22.78 | 0.01 | 7.26 | 408.64 | 9.11 | 0.52 | 12.86 |
| 8/25/2024 12:30 | 15.05 | 22.9  | 0.01 | 7.32 | 407.03 | 9.09 | 0.51 | 12.84 |
| 8/25/2024 12:20 | 15.04 | 22.88 | 0.01 | 7.26 | 408.86 | 9.08 | 0.51 | 12.81 |
| 8/25/2024 12:10 | 15.03 | 22.83 | 0.01 | 7.35 | 407.84 | 9.08 | 0.47 | 12.81 |
| 8/25/2024 12:00 | 15.04 | 22.73 | 0.01 | 7.29 | 406.75 | 9.13 | 0.49 | 12.93 |
| 8/25/2024 11:50 | 15.03 | 22.64 | 0.01 | 7.37 | 406.6  | 9.15 | 0.5  | 13.05 |
| 8/25/2024 11:40 | 15    | 22.87 | 0.01 | 7.29 | 408.6  | 9.16 | 0.48 | 13.36 |
| 8/25/2024 11:30 | 14.9  | 22.69 | 0.01 | 7.29 | 409.68 | 9.11 | 0.49 | 13    |
| 8/25/2024 11:20 | 14.87 | 22.94 | 0.01 | 7.25 | 409.53 | 9.13 | 0.51 | 12.74 |
| 8/25/2024 11:10 | 14.85 | 22.8  | 0.01 | 7.26 | 410.27 | 9.13 | 0.5  | 12.76 |
| 8/25/2024 11:00 | 14.82 | 23.04 | 0.01 | 7.22 | 410.11 | 9.13 | 0.49 | 12.72 |
| 8/25/2024 10:50 | 14.8  | 22.93 | 0.01 | 7.25 | 409.67 | 9.12 | 0.51 | 12.67 |
| 8/25/2024 10:40 | 14.78 | 22.99 | 0.01 | 7.27 | 410.38 | 9.11 | 0.49 | 12.69 |
| 8/25/2024 10:30 | 14.76 | 22.87 | 0.01 | 7.3  | 408.66 | 9.13 | 0.5  | 12.74 |
| 8/25/2024 10:20 | 14.75 | 22.94 | 0.01 | 7.24 | 411.32 | 9.13 | 0.48 | 12.67 |
| 8/25/2024 10:10 | 14.72 | 23.01 | 0.01 | 7.24 | 411.53 | 9.13 | 0.49 | 12.76 |
| 8/25/2024 10:00 | 14.69 | 22.98 | 0.01 | 7.22 | 412.27 | 9.11 | 0.49 | 12.65 |
| 8/25/2024 9:50  | 14.67 | 23.04 | 0.01 | 7.29 | 411.36 | 9.13 | 0.49 | 12.69 |
| 8/25/2024 9:40  | 14.66 | 23.04 | 0.01 | 7.23 | 412.7  | 9.13 | 0.5  | 12.69 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                |       |       |      |      |        |      |      |       |
|----------------|-------|-------|------|------|--------|------|------|-------|
| 8/25/2024 9:30 | 14.64 | 22.89 | 0.01 | 7.26 | 411.41 | 9.14 | 0.49 | 12.74 |
| 8/25/2024 9:20 | 14.62 | 23.1  | 0.01 | 7.21 | 413.33 | 9.12 | 0.48 | 12.74 |
| 8/25/2024 9:10 | 14.6  | 23.04 | 0.01 | 7.18 | 415.07 | 9.13 | 0.49 | 12.65 |
| 8/25/2024 9:00 | 14.58 | 23.27 | 0.01 | 7.21 | 413.94 | 9.12 | 0.46 | 12.57 |
| 8/25/2024 8:50 | 14.56 | 23.09 | 0.01 | 7.27 | 412.98 | 9.1  | 0.49 | 12.36 |
| 8/25/2024 8:40 | 14.54 | 23.41 | 0.01 | 7.21 | 415.27 | 9.1  | 0.5  | 12.26 |
| 8/25/2024 8:30 | 14.53 | 23.39 | 0.01 | 7.24 | 414.03 | 9.08 | 0.51 | 12.09 |
| 8/25/2024 8:20 | 14.51 | 23.38 | 0.01 | 7.23 | 415.22 | 9.05 | 0.48 | 12.17 |
| 8/25/2024 8:10 | 14.51 | 23.1  | 0.01 | 7.21 | 414.58 | 9.07 | 0.56 | 12.09 |
| 8/25/2024 8:00 | 14.5  | 23.59 | 0.01 | 7.21 | 415.41 | 9.05 | 0.47 | 12.07 |
| 8/25/2024 7:50 | 14.5  | 23.42 | 0.01 | 7.15 | 417.2  | 9.07 | 0.5  | 11.95 |
| 8/25/2024 7:40 | 14.5  | 23.59 | 0.01 | 7.16 | 415.81 | 9.06 | 0.49 | 11.97 |
| 8/25/2024 7:30 | 14.5  | 23.22 | 0.01 | 7.23 | 413.46 | 9.05 | 0.5  | 12    |
| 8/25/2024 7:20 | 14.5  | 23.79 | 0.01 | 7.19 | 415.99 | 9.04 | 0.5  | 11.97 |
| 8/25/2024 7:10 | 14.5  | 23.71 | 0.01 | 7.2  | 413.57 | 9.03 | 0.48 | 11.97 |
| 8/25/2024 7:00 | 14.5  | 23.9  | 0.01 | 7.26 | 415.33 | 9.02 | 0.48 | 11.97 |
| 8/25/2024 6:50 | 14.5  | 23.78 | 0.01 | 7.27 | 415.18 | 9.04 | 0.5  | 11.97 |
| 8/25/2024 6:40 | 14.52 | 23.96 | 0.01 | 7.21 | 414.97 | 9    | 0.49 | 11.88 |
| 8/25/2024 6:30 | 14.53 | 23.59 | 0.01 | 7.17 | 415.65 | 9.02 | 0.5  | 11.95 |
| 8/25/2024 6:20 | 14.55 | 23.98 | 0.01 | 7.24 | 415.67 | 9.01 | 0.5  | 11.88 |
| 8/25/2024 6:10 | 14.56 | 23.98 | 0.01 | 7.2  | 415.85 | 9    | 0.48 | 11.93 |
| 8/25/2024 6:00 | 14.58 | 24.1  | 0.01 | 7.17 | 415.19 | 9    | 0.51 | 11.85 |
| 8/25/2024 5:50 | 14.59 | 23.94 | 0.01 | 7.25 | 410.58 | 8.98 | 0.5  | 11.95 |
| 8/25/2024 5:40 | 14.61 | 24.22 | 0.01 | 7.21 | 415.13 | 8.98 | 0.46 | 11.97 |
| 8/25/2024 5:30 | 14.62 | 24.08 | 0.01 | 7.2  | 412.46 | 9    | 0.49 | 11.95 |
| 8/25/2024 5:20 | 14.64 | 24.34 | 0.01 | 7.17 | 413.97 | 8.96 | 0.52 | 11.88 |
| 8/25/2024 5:10 | 14.65 | 23.77 | 0.01 | 7.29 | 412.65 | 8.97 | 0.53 | 11.85 |
| 8/25/2024 5:00 | 14.66 | 24.33 | 0.01 | 7.2  | 413.5  | 8.94 | 0.48 | 11.85 |
| 8/25/2024 4:50 | 14.67 | 24.27 | 0.01 | 7.27 | 412.8  | 8.95 | 0.51 | 11.88 |
| 8/25/2024 4:40 | 14.68 | 24.36 | 0.01 | 7.23 | 413.87 | 8.93 | 0.48 | 11.97 |
| 8/25/2024 4:30 | 14.69 | 24.39 | 0.01 | 7.25 | 413.1  | 8.95 | 0.51 | 11.97 |
| 8/25/2024 4:20 | 14.7  | 24.48 | 0.01 | 7.21 | 413.19 | 8.89 | 0.55 | 11.97 |
| 8/25/2024 4:10 | 14.71 | 24.47 | 0.01 | 7.25 | 413.12 | 8.91 | 0.5  | 11.97 |
| 8/25/2024 4:00 | 14.71 | 24.57 | 0.01 | 7.19 | 412.25 | 8.91 | 0.5  | 11.97 |
| 8/25/2024 3:50 | 14.72 | 24.49 | 0.01 | 7.28 | 411.76 | 8.93 | 0.48 | 11.88 |
| 8/25/2024 3:40 | 14.73 | 24.6  | 0.01 | 7.19 | 412.24 | 8.85 | 0.54 | 11.88 |
| 8/25/2024 3:30 | 14.74 | 24.5  | 0.01 | 7.18 | 410.68 | 8.93 | 0.5  | 11.97 |
| 8/25/2024 3:20 | 14.75 | 24.8  | 0.01 | 7.21 | 411.83 | 8.86 | 0.49 | 12    |
| 8/25/2024 3:10 | 14.76 | 24.79 | 0.01 | 7.22 | 412.56 | 8.85 | 0.5  | 12    |
| 8/25/2024 3:00 | 14.77 | 24.7  | 0.01 | 7.22 | 412.06 | 8.91 | 0.5  | 12    |
| 8/25/2024 2:50 | 14.77 | 24.91 | 0.01 | 7.21 | 410.5  | 8.89 | 0.47 | 12.02 |
| 8/25/2024 2:40 | 14.78 | 25.01 | 0.01 | 7.21 | 411.58 | 8.94 | 0.54 | 12.02 |
| 8/25/2024 2:30 | 14.79 | 24.91 | 0.01 | 7.23 | 408.68 | 8.94 | 0.52 | 12.02 |
| 8/25/2024 2:20 | 14.8  | 25.01 | 0.01 | 7.22 | 412.41 | 8.92 | 0.5  | 12.02 |
| 8/25/2024 2:10 | 14.82 | 25.02 | 0.01 | 7.2  | 412.24 | 8.95 | 0.55 | 12.02 |
| 8/25/2024 2:00 | 14.83 | 25.18 | 0.01 | 7.21 | 413.36 | 8.93 | 0.56 | 12.02 |
| 8/25/2024 1:50 | 14.83 | 24.66 | 0.01 | 7.25 | 409.82 | 8.93 | 0.56 | 12.02 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/25/2024 1:40  | 14.84 | 25.37 | 0.01 | 7.23 | 413.08 | 8.92 | 0.51 | 11.95 |
| 8/25/2024 1:30  | 14.85 | 25.13 | 0.01 | 7.17 | 411.77 | 8.93 | 0.5  | 12.05 |
| 8/25/2024 1:20  | 14.86 | 25.34 | 0.01 | 7.26 | 411.86 | 8.9  | 0.56 | 12.05 |
| 8/25/2024 1:10  | 14.86 | 25.2  | 0.01 | 7.23 | 411.75 | 8.91 | 0.66 | 11.97 |
| 8/25/2024 1:00  | 14.87 | 25.21 | 0.01 | 7.23 | 412.28 | 8.89 | 0.53 | 11.97 |
| 8/25/2024 0:50  | 14.88 | 25.1  | 0.01 | 7.25 | 411.7  | 8.86 | 0.59 | 12    |
| 8/25/2024 0:40  | 14.89 | 25.13 | 0.01 | 7.24 | 411.38 | 8.81 | 0.52 | 12    |
| 8/25/2024 0:30  | 14.89 | 25.06 | 0.01 | 7.29 | 409.73 | 8.74 | 0.55 | 12.09 |
| 8/25/2024 0:20  | 14.9  | 25.2  | 0.01 | 7.22 | 412.71 | 8.81 | 0.5  | 12.02 |
| 8/25/2024 0:10  | 14.91 | 25.19 | 0.01 | 7.29 | 411.01 | 8.78 | 0.68 | 12    |
| 8/25/2024 0:00  | 14.92 | 25.29 | 0.01 | 7.23 | 412.56 | 8.8  | 0.53 | 12.02 |
| 8/24/2024 23:50 | 14.92 | 25.37 | 0.01 | 7.29 | 409.18 | 8.73 | 0.6  | 12.02 |
| 8/24/2024 23:40 | 14.93 | 25.34 | 0.01 | 7.14 | 411.43 | 8.86 | 2.05 | 12.14 |
| 8/24/2024 23:30 | 14.94 | 26.05 | 0.01 | 7.22 | 410.15 | 8.87 | 0.7  | 12.14 |
| 8/24/2024 23:20 | 14.94 | 27.35 | 0.01 | 7.2  | 410.9  | 8.91 | 7.53 | 12.14 |
| 8/24/2024 23:10 | 14.95 | 25.57 | 0.01 | 7.25 | 407.51 | 8.89 | 0.62 | 12.14 |
| 8/24/2024 23:00 | 14.96 | 25.76 | 0.01 | 7.23 | 410.16 | 8.88 | 0.56 | 12.14 |
| 8/24/2024 22:50 | 14.96 | 25.98 | 0.01 | 7.24 | 406.04 | 8.88 | 0.55 | 12.14 |
| 8/24/2024 22:40 | 14.98 | 25.95 | 0.01 | 7.24 | 409.07 | 8.93 | 0.56 | 12.17 |
| 8/24/2024 22:30 | 14.98 | 26.08 | 0.01 | 7.24 | 404.92 | 8.88 | 0.65 | 12.17 |
| 8/24/2024 22:20 | 14.99 | 26.15 | 0.01 | 7.16 | 407.86 | 8.9  | 0.57 | 12.17 |
| 8/24/2024 22:10 | 15    | 26.27 | 0.01 | 7.18 | 407.42 | 8.84 | 0.55 | 12.17 |
| 8/24/2024 22:00 | 15.01 | 26.42 | 0.01 | 7.16 | 407.27 | 8.89 | 0.52 | 12.17 |
| 8/24/2024 21:50 | 15.02 | 26.5  | 0.01 | 7.21 | 406.27 | 8.88 | 0.55 | 12.09 |
| 8/24/2024 21:40 | 15.03 | 26.65 | 0.01 | 7.2  | 407.16 | 8.91 | 0.63 | 12.19 |
| 8/24/2024 21:30 | 15.04 | 26.79 | 0.01 | 7.17 | 406.61 | 8.87 | 0.63 | 12.09 |
| 8/24/2024 21:20 | 15.05 | 26.97 | 0.01 | 7.17 | 407.29 | 8.88 | 0.55 | 12.09 |
| 8/24/2024 21:10 | 15.05 | 27    | 0.01 | 7.24 | 402.96 | 8.88 | 0.55 | 12.19 |
| 8/24/2024 21:00 | 15.06 | 27.2  | 0.01 | 7.18 | 406.3  | 8.89 | 0.55 | 12.21 |
| 8/24/2024 20:50 | 15.07 | 27.31 | 0.01 | 7.24 | 403.02 | 8.86 | 0.52 | 12.24 |
| 8/24/2024 20:40 | 15.08 | 27.49 | 0.01 | 7.17 | 406.57 | 8.89 | 0.61 | 12.24 |
| 8/24/2024 20:30 | 15.08 | 27.69 | 0.01 | 7.22 | 404.34 | 8.86 | 0.56 | 12.21 |
| 8/24/2024 20:20 | 15.09 | 27.85 | 0.01 | 7.19 | 405.15 | 8.87 | 0.56 | 12.14 |
| 8/24/2024 20:10 | 15.1  | 27.9  | 0.01 | 7.21 | 404.52 | 8.86 | 0.56 | 12.21 |
| 8/24/2024 20:00 | 15.11 | 28.06 | 0.01 | 7.16 | 406.62 | 8.88 | 0.79 | 12.26 |
| 8/24/2024 19:50 | 15.12 | 28.26 | 0.01 | 7.19 | 405.48 | 8.85 | 0.57 | 12.26 |
| 8/24/2024 19:40 | 15.13 | 28.58 | 0.01 | 7.18 | 405.23 | 8.89 | 0.59 | 12.26 |
| 8/24/2024 19:30 | 15.13 | 28.69 | 0.01 | 7.24 | 402.15 | 8.86 | 0.55 | 12.29 |
| 8/24/2024 19:20 | 15.14 | 28.76 | 0.01 | 7.19 | 404.29 | 8.88 | 0.75 | 12.29 |
| 8/24/2024 19:10 | 15.15 | 28.86 | 0.01 | 7.28 | 402.8  | 8.89 | 0.59 | 12.29 |
| 8/24/2024 19:00 | 15.15 | 29.2  | 0.01 | 7.22 | 402.71 | 8.9  | 0.57 | 12.31 |
| 8/24/2024 18:50 | 15.16 | 29.33 | 0.01 | 7.23 | 401.27 | 8.89 | 0.59 | 12.31 |
| 8/24/2024 18:40 | 15.17 | 29.58 | 0.01 | 7.26 | 403.12 | 8.89 | 0.6  | 12.33 |
| 8/24/2024 18:30 | 15.17 | 29.97 | 0.01 | 7.26 | 401.08 | 8.91 | 0.63 | 12.26 |
| 8/24/2024 18:20 | 15.18 | 30.03 | 0.01 | 7.19 | 401.6  | 8.9  | 0.73 | 12.31 |
| 8/24/2024 18:10 | 15.18 | 30.2  | 0.01 | 7.31 | 395.56 | 8.91 | 0.61 | 12.41 |
| 8/24/2024 18:00 | 15.18 | 30.57 | 0.01 | 7.2  | 400.24 | 8.92 | 0.69 | 12.45 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/24/2024 17:50 | 15.18 | 30.95 | 0.01 | 7.21 | 401.29 | 8.92 | 0.65 | 12.41 |
| 8/24/2024 17:40 | 15.19 | 31.25 | 0.02 | 7.21 | 399.62 | 8.92 | 0.63 | 12.53 |
| 8/24/2024 17:30 | 15.19 | 31.42 | 0.02 | 7.23 | 398.81 | 8.92 | 0.59 | 12.45 |
| 8/24/2024 17:20 | 15.19 | 31.85 | 0.02 | 7.21 | 398.77 | 8.96 | 1    | 12.62 |
| 8/24/2024 17:10 | 15.18 | 32.14 | 0.02 | 7.23 | 397.71 | 8.94 | 0.58 | 12.6  |
| 8/24/2024 17:00 | 15.18 | 32.52 | 0.02 | 7.21 | 397.68 | 8.95 | 7.63 | 12.57 |
| 8/24/2024 16:50 | 15.17 | 32.52 | 0.02 | 7.28 | 393.68 | 8.89 | 0.81 | 12.57 |
| 8/24/2024 16:40 | 15.18 | 33.2  | 0.02 | 7.22 | 397.57 | 8.91 | 0.66 | 12.57 |
| 8/24/2024 16:30 | 15.18 | 33.47 | 0.02 | 7.24 | 395.65 | 8.88 | 0.59 | 12.6  |
| 8/24/2024 16:20 | 15.18 | 33.85 | 0.02 | 7.21 | 396.32 | 8.94 | 0.62 | 12.67 |
| 8/24/2024 16:10 | 15.17 | 34.46 | 0.02 | 7.23 | 396.1  | 8.89 | 0.67 | 12.62 |
| 8/24/2024 16:00 | 15.16 | 35.05 | 0.02 | 7.21 | 395.65 | 8.95 | 0.62 | 12.74 |
| 8/24/2024 15:50 | 15.15 | 35.48 | 0.02 | 7.26 | 393.57 | 8.93 | 0.62 | 12.76 |
| 8/24/2024 15:40 | 15.12 | 36.06 | 0.02 | 7.22 | 394.48 | 8.96 | 0.62 | 12.76 |
| 8/24/2024 15:30 | 15.1  | 36.07 | 0.02 | 7.21 | 394.44 | 8.88 | 1.88 | 12.6  |
| 8/24/2024 15:20 | 15.1  | 37.28 | 0.02 | 7.21 | 393.16 | 8.93 | 0.61 | 12.57 |
| 8/24/2024 15:10 | 15.1  | 37.7  | 0.02 | 7.27 | 389.52 | 8.95 | 2.36 | 12.5  |
| 8/24/2024 15:00 | 15.09 | 38.35 | 0.02 | 7.22 | 391.51 | 8.97 | 0.66 | 12.5  |
| 8/24/2024 14:50 | 15.09 | 38.59 | 0.02 | 7.23 | 390.73 | 8.93 | 0.82 | 12.53 |
| 8/24/2024 14:40 | 15.09 | 40.04 | 0.02 | 7.23 | 389.96 | 8.94 | 0.74 | 12.48 |
| 8/24/2024 14:30 | 15.09 | 40.69 | 0.02 | 7.27 | 387.45 | 8.92 | 4.76 | 12.5  |
| 8/24/2024 14:20 | 15.09 | 41.53 | 0.02 | 7.24 | 388.52 | 8.96 | 0.66 | 12.55 |
| 8/24/2024 14:10 | 15.08 | 42.35 | 0.02 | 7.24 | 388.87 | 8.94 | 0.79 | 12.62 |
| 8/24/2024 14:00 | 15.08 | 42.91 | 0.02 | 7.25 | 387.56 | 8.96 | 0.63 | 12.55 |
| 8/24/2024 13:50 | 15.07 | 42.85 | 0.02 | 7.28 | 385.29 | 8.93 | 0.7  | 12.65 |
| 8/24/2024 13:40 | 15.06 | 44.04 | 0.02 | 7.25 | 386.52 | 8.97 | 0.72 | 12.65 |
| 8/24/2024 13:30 | 15.05 | 44.44 | 0.02 | 7.27 | 385.48 | 8.97 | 0.77 | 12.67 |
| 8/24/2024 13:20 | 15.05 | 44.89 | 0.02 | 7.26 | 385.23 | 8.99 | 0.67 | 12.72 |
| 8/24/2024 13:10 | 15.03 | 45.11 | 0.02 | 7.28 | 384.75 | 9.01 | 0.67 | 12.74 |
| 8/24/2024 13:00 | 15.01 | 45.92 | 0.02 | 7.27 | 384.81 | 9    | 0.69 | 12.72 |
| 8/24/2024 12:50 | 14.99 | 46.09 | 0.02 | 7.3  | 382.96 | 9.01 | 0.72 | 12.65 |
| 8/24/2024 12:40 | 14.98 | 46.77 | 0.02 | 7.27 | 382.79 | 9    | 1.15 | 12.65 |
| 8/24/2024 12:30 | 14.97 | 47.05 | 0.02 | 7.3  | 381.72 | 9.01 | 0.7  | 12.62 |
| 8/24/2024 12:20 | 14.96 | 47.46 | 0.02 | 7.26 | 381.07 | 9.01 | 0.72 | 12.48 |
| 8/24/2024 12:10 | 14.95 | 47.54 | 0.02 | 7.28 | 380.09 | 9.01 | 1.18 | 12.53 |
| 8/24/2024 12:00 | 14.94 | 47.88 | 0.02 | 7.27 | 379.64 | 9    | 0.75 | 12.57 |
| 8/24/2024 11:50 | 14.92 | 48    | 0.02 | 7.28 | 381.88 | 8.98 | 1.05 | 12.53 |
| 8/24/2024 11:40 | 14.91 | 48.49 | 0.02 | 7.26 | 381.31 | 8.97 | 4.45 | 12.48 |
| 8/24/2024 11:30 | 14.9  | 48.88 | 0.02 | 7.27 | 380    | 8.97 | 0.79 | 12.31 |
| 8/24/2024 11:20 | 14.89 | 49.5  | 0.03 | 7.27 | 378.78 | 9    | 0.78 | 12.24 |
| 8/24/2024 11:10 | 14.88 | 50.05 | 0.03 | 7.26 | 378.64 | 8.97 | 1.02 | 12.17 |
| 8/24/2024 11:00 | 14.88 | 50.62 | 0.03 | 7.27 | 376.6  | 8.98 | 0.8  | 12.29 |
| 8/24/2024 10:50 | 14.88 | 50.89 | 0.03 | 7.31 | 373.42 | 8.97 | 1.07 | 12.41 |
| 8/24/2024 10:40 | 14.88 | 51.62 | 0.03 | 7.26 | 374.69 | 9.01 | 3.23 | 12.38 |
| 8/24/2024 10:30 | 14.87 | 51.77 | 0.03 | 7.29 | 371.39 | 8.98 | 1.41 | 12.24 |
| 8/24/2024 10:20 | 14.87 | 53.66 | 0.03 | 7.28 | 369.34 | 9.01 | 1.33 | 12.26 |
| 8/24/2024 10:10 | 14.86 | 54.3  | 0.03 | 7.3  | 366.81 | 9    | 1.15 | 12.24 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |        |      |      |        |      |        |       |
|-----------------|-------|--------|------|------|--------|------|--------|-------|
| 8/24/2024 10:00 | 14.86 | 55.42  | 0.03 | 7.29 | 366.61 | 9.02 | 1.01   | 12.12 |
| 8/24/2024 9:50  | 14.85 | 56.23  | 0.03 | 7.28 | 366.22 | 9.01 | 0.88   | 12.02 |
| 8/24/2024 9:40  | 14.85 | 57.68  | 0.03 | 7.29 | 364.97 | 9.01 | 1.43   | 11.95 |
| 8/24/2024 9:30  | 14.84 | 58.72  | 0.03 | 7.29 | 364.21 | 8.98 | 1.77   | 12.02 |
| 8/24/2024 9:20  | 14.85 | 60.1   | 0.03 | 7.3  | 361.92 | 8.99 | 1.34   | 12.02 |
| 8/24/2024 9:10  | 14.85 | 61.38  | 0.03 | 7.28 | 362.67 | 9    | 2.22   | 12    |
| 8/24/2024 9:00  | 14.85 | 62.52  | 0.03 | 7.28 | 362.21 | 8.98 | 1.11   | 12    |
| 8/24/2024 8:50  | 14.86 | 63.55  | 0.03 | 7.31 | 360.8  | 8.98 | 1.01   | 12    |
| 8/24/2024 8:40  | 14.86 | 65.49  | 0.03 | 7.3  | 360.64 | 8.98 | 1.58   | 11.9  |
| 8/24/2024 8:30  | 14.87 | 67.07  | 0.03 | 7.29 | 361.08 | 8.99 | 0.99   | 11.97 |
| 8/24/2024 8:20  | 14.88 | 69.11  | 0.04 | 7.31 | 359.61 | 8.98 | 1.23   | 11.88 |
| 8/24/2024 8:10  | 14.88 | 70.77  | 0.04 | 7.29 | 359.62 | 8.97 | 1.2    | 11.9  |
| 8/24/2024 8:00  | 14.89 | 72.61  | 0.04 | 7.32 | 357.15 | 8.97 | 3.36   | 11.88 |
| 8/24/2024 7:50  | 14.89 | 74.28  | 0.04 | 7.33 | 355.92 | 8.97 | 1.09   | 11.95 |
| 8/24/2024 7:40  | 14.9  | 76.24  | 0.04 | 7.32 | 354.6  | 8.96 | 1.43   | 11.95 |
| 8/24/2024 7:30  | 14.91 | 77.65  | 0.04 | 7.32 | 353.19 | 8.98 | 1.43   | 11.88 |
| 8/24/2024 7:20  | 14.92 | 81.2   | 0.04 | 7.35 | 350.37 | 8.98 | 1.86   | 11.97 |
| 8/24/2024 7:10  | 14.94 | 82.83  | 0.04 | 7.34 | 349.56 | 8.98 | 1.86   | 12    |
| 8/24/2024 7:00  | 14.95 | 86.74  | 0.05 | 7.36 | 347.16 | 8.97 | 1.96   | 11.97 |
| 8/24/2024 6:50  | 14.96 | 88.69  | 0.05 | 7.31 | 348.73 | 8.99 | 1.64   | 11.97 |
| 8/24/2024 6:40  | 14.97 | 90.07  | 0.05 | 7.35 | 345.78 | 8.98 | 1.51   | 12    |
| 8/24/2024 6:30  | 14.97 | 87.96  | 0.05 | 7.33 | 346.86 | 8.97 | 1.76   | 12    |
| 8/24/2024 6:20  | 14.97 | 83.91  | 0.04 | 7.32 | 346.56 | 8.97 | 2.04   | 11.97 |
| 8/24/2024 6:10  | 14.98 | 78.9   | 0.04 | 7.29 | 347.27 | 9    | 4.11   | 12    |
| 8/24/2024 6:10  | 14.98 | 78.9   | 0.04 | 7.29 | 347.27 | 9    | 4.11   | 12    |
| 8/24/2024 6:00  | 14.99 | 76.8   | 0.04 | 7.33 | 345.01 | 8.97 | 3.91   | 11.9  |
| 8/24/2024 5:50  | 15    | 74.73  | 0.04 | 7.33 | 344.11 | 8.99 | 2.34   | 11.9  |
| 8/24/2024 5:40  | 15.01 | 73.41  | 0.04 | 7.31 | 344.24 | 8.99 | 5.82   | 11.97 |
| 8/24/2024 5:30  | 15.02 | 73.11  | 0.04 | 7.31 | 344.59 | 8.97 | 2.33   | 11.9  |
| 8/24/2024 5:20  | 15.04 | 73.71  | 0.04 | 7.34 | 342.32 | 9    | 5.5    | 12    |
| 8/24/2024 5:10  | 15.05 | 74.66  | 0.04 | 7.29 | 345.25 | 8.97 | 5.54   | 12    |
| 8/24/2024 5:00  | 15.07 | 76.87  | 0.04 | 7.37 | 340.64 | 8.96 | 6.16   | 12    |
| 8/24/2024 4:50  | 15.09 | 79.21  | 0.04 | 7.34 | 342.26 | 8.96 | 6.12   | 11.9  |
| 8/24/2024 4:40  | 15.11 | 81.45  | 0.04 | 7.38 | 339.5  | 8.95 | 7.38   | 11.9  |
| 8/24/2024 4:30  | 15.12 | 83.66  | 0.04 | 7.38 | 338.64 | 8.97 | 56.53  | 11.95 |
| 8/24/2024 4:20  | 15.14 | 87.3   | 0.05 | 7.41 | 337.55 | 8.96 | 78.5   | 12.02 |
| 8/24/2024 4:10  | 15.16 | 88.84  | 0.05 | 7.41 | 343.82 | 8.95 | 13.48  | 12.02 |
| 8/24/2024 4:00  | 15.18 | 93.03  | 0.05 | 7.42 | 344.9  | 8.96 | 218.23 | 12.02 |
| 8/24/2024 3:50  | 15.19 | 96.75  | 0.05 | 7.43 | 346.91 | 8.96 | 34.12  | 12.02 |
| 8/24/2024 3:40  | 15.2  | 98.04  | 0.05 | 7.4  | 348.94 | 8.95 | 52     | 12.05 |
| 8/24/2024 3:30  | 15.21 | 96.38  | 0.05 | 7.41 | 348.44 | 8.93 | 20.06  | 12.05 |
| 8/24/2024 3:20  | 15.23 | 102.75 | 0.05 | 7.42 | 348.34 | 8.9  | 65.15  | 12.05 |
| 8/24/2024 3:10  | 15.25 | 108.05 | 0.06 | 7.42 | 346.66 | 8.91 | 64.66  | 11.95 |
| 8/24/2024 3:00  | 15.26 | 112.74 | 0.06 | 7.42 | 345.11 | 8.88 | 50.99  | 11.95 |
| 8/24/2024 2:50  | 15.27 | 119.26 | 0.06 | 7.44 | 343.14 | 8.92 | 41.43  | 11.95 |
| 8/24/2024 2:40  | 15.29 | 133.51 | 0.07 | 7.47 | 340.43 | 8.86 | 44.68  | 11.95 |
| 8/24/2024 2:30  | 15.32 | 146.15 | 0.08 | 7.48 | 339.6  | 8.85 | 20.87  | 12.05 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |        |      |      |        |      |       |       |
|-----------------|-------|--------|------|------|--------|------|-------|-------|
| 8/24/2024 2:20  | 15.36 | 166.48 | 0.09 | 7.52 | 337.56 | 8.83 | 33.18 | 11.97 |
| 8/24/2024 2:10  | 15.36 | 172.84 | 0.09 | 7.53 | 338.25 | 8.82 | 23.39 | 11.95 |
| 8/24/2024 2:00  | 15.37 | 172.94 | 0.09 | 7.52 | 337.89 | 8.81 | 32.64 | 11.95 |
| 8/24/2024 1:50  | 15.38 | 177.48 | 0.09 | 7.52 | 336.78 | 8.8  | 23.6  | 11.97 |
| 8/24/2024 1:40  | 15.38 | 179.85 | 0.1  | 7.51 | 335.58 | 8.78 | 18.07 | 12.07 |
| 8/24/2024 1:30  | 15.37 | 178.47 | 0.09 | 7.48 | 336.57 | 8.77 | 9.84  | 12.07 |
| 8/24/2024 1:20  | 15.35 | 162.12 | 0.09 | 7.44 | 334.46 | 8.75 | 11.56 | 12.07 |
| 8/24/2024 1:10  | 15.33 | 129.42 | 0.07 | 7.42 | 329.26 | 8.75 | 7.64  | 11.97 |
| 8/24/2024 1:00  | 15.35 | 134.05 | 0.07 | 7.43 | 320.71 | 8.76 | 7.82  | 11.97 |
| 8/24/2024 0:50  | 15.38 | 149.9  | 0.08 | 7.45 | 314.34 | 8.75 | 3.78  | 11.97 |
| 8/24/2024 0:40  | 15.41 | 172.31 | 0.09 | 7.48 | 313.76 | 8.74 | 3.76  | 12    |
| 8/24/2024 0:30  | 15.43 | 193.12 | 0.1  | 7.48 | 316.28 | 8.71 | 8.24  | 12.07 |
| 8/24/2024 0:20  | 15.45 | 213.98 | 0.11 | 7.51 | 318.7  | 8.72 | 2.77  | 12.09 |
| 8/24/2024 0:10  | 15.46 | 230.22 | 0.12 | 7.51 | 321.59 | 8.71 | 3.14  | 12.07 |
| 8/24/2024 0:00  | 15.45 | 243.63 | 0.13 | 7.51 | 325.91 | 8.72 | 3.91  | 12.09 |
| 8/23/2024 23:50 | 15.44 | 251.37 | 0.13 | 7.49 | 330.86 | 8.71 | 2.75  | 12.09 |
| 8/23/2024 23:40 | 15.41 | 256.33 | 0.14 | 7.47 | 335.28 | 8.72 | 2.99  | 12.07 |
| 8/23/2024 23:30 | 15.38 | 249.71 | 0.13 | 7.44 | 340.1  | 8.71 | 2.06  | 12.07 |
| 8/23/2024 23:20 | 15.36 | 240.01 | 0.13 | 7.41 | 344.98 | 8.71 | 2.59  | 12    |
| 8/23/2024 23:10 | 15.34 | 235.53 | 0.13 | 7.38 | 349.12 | 8.68 | 0.93  | 12.09 |
| 8/23/2024 23:00 | 15.32 | 226.49 | 0.12 | 7.34 | 354.19 | 8.68 | 0.93  | 12.09 |
| 8/23/2024 22:50 | 15.3  | 177.26 | 0.09 | 7.29 | 359.47 | 8.7  | 0.79  | 12.09 |
| 8/23/2024 22:40 | 15.29 | 111.83 | 0.06 | 7.21 | 365.37 | 8.71 | 0.62  | 12.09 |
| 8/23/2024 22:30 | 15.29 | 54.02  | 0.03 | 7.13 | 368.08 | 8.69 | 0.77  | 12.09 |
| 8/23/2024 22:20 | 15.3  | 25.5   | 0.01 | 7.13 | 367.66 | 8.66 | 1.28  | 12.09 |
| 8/23/2024 22:10 | 15.31 | 23.4   | 0.01 | 7.13 | 366.2  | 8.65 | 0.67  | 12.09 |
| 8/23/2024 22:00 | 15.32 | 23.32  | 0.01 | 7.14 | 364.36 | 8.65 | 1.02  | 12.12 |
| 8/23/2024 21:50 | 15.32 | 23.18  | 0.01 | 7.12 | 365.01 | 8.62 | 0.65  | 12.12 |
| 8/23/2024 21:40 | 15.33 | 23.1   | 0.01 | 7.16 | 362.19 | 8.62 | 0.54  | 12.12 |
| 8/23/2024 21:30 | 15.34 | 22.83  | 0.01 | 7.13 | 362.31 | 8.63 | 0.55  | 12.12 |
| 8/23/2024 21:20 | 15.35 | 23.13  | 0.01 | 7.15 | 360.72 | 8.64 | 0.63  | 12.09 |
| 8/23/2024 21:10 | 15.35 | 23.11  | 0.01 | 7.18 | 360.59 | 8.65 | 0.51  | 12.09 |
| 8/23/2024 21:00 | 15.36 | 23.26  | 0.01 | 7.18 | 360.26 | 8.64 | 0.55  | 12.02 |
| 8/23/2024 20:50 | 15.37 | 23.15  | 0.01 | 7.18 | 361.03 | 8.66 | 0.5   | 12.02 |
| 8/23/2024 20:40 | 15.38 | 23.38  | 0.01 | 7.17 | 362    | 8.65 | 0.9   | 12.05 |
| 8/23/2024 20:30 | 15.38 | 23.3   | 0.01 | 7.18 | 363.68 | 8.66 | 0.5   | 12.05 |
| 8/23/2024 20:20 | 15.39 | 23.58  | 0.01 | 7.19 | 361.55 | 8.64 | 0.49  | 12.05 |
| 8/23/2024 20:10 | 15.39 | 23.59  | 0.01 | 7.2  | 364.3  | 8.65 | 0.47  | 12.07 |
| 8/23/2024 20:00 | 15.4  | 23.72  | 0.01 | 7.16 | 364.8  | 8.66 | 0.47  | 12.07 |
| 8/23/2024 19:50 | 15.4  | 23.65  | 0.01 | 7.19 | 365.52 | 8.66 | 0.51  | 12.09 |
| 8/23/2024 19:40 | 15.41 | 23.87  | 0.01 | 7.19 | 364.34 | 8.67 | 0.49  | 12.19 |
| 8/23/2024 19:30 | 15.42 | 23.74  | 0.01 | 7.19 | 366.97 | 8.67 | 0.5   | 12.19 |
| 8/23/2024 19:20 | 15.43 | 24.02  | 0.01 | 7.19 | 365.04 | 8.67 | 0.49  | 12.26 |
| 8/23/2024 19:10 | 15.43 | 23.86  | 0.01 | 7.26 | 364.55 | 8.67 | 0.52  | 12.26 |
| 8/23/2024 19:00 | 15.45 | 24.23  | 0.01 | 7.19 | 365.77 | 8.67 | 0.51  | 12.24 |
| 8/23/2024 18:50 | 15.45 | 24.08  | 0.01 | 7.2  | 369.19 | 8.66 | 0.51  | 12.24 |
| 8/23/2024 18:40 | 15.46 | 24.34  | 0.01 | 7.18 | 366.04 | 8.65 | 0.5   | 12.26 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/23/2024 18:30 | 15.47 | 24.17 | 0.01 | 7.2  | 366.05 | 8.67 | 0.5  | 12.29 |
| 8/23/2024 18:20 | 15.48 | 24.34 | 0.01 | 7.2  | 366.41 | 8.69 | 0.5  | 12.33 |
| 8/23/2024 18:10 | 15.48 | 24.27 | 0.01 | 7.21 | 366.98 | 8.7  | 0.51 | 12.38 |
| 8/23/2024 18:00 | 15.49 | 24.19 | 0.01 | 7.2  | 368.32 | 8.71 | 0.49 | 12.43 |
| 8/23/2024 17:50 | 15.49 | 23.88 | 0.01 | 7.21 | 370.62 | 8.72 | 0.49 | 12.31 |
| 8/23/2024 17:40 | 15.49 | 24.12 | 0.01 | 7.22 | 367.7  | 8.72 | 0.55 | 12.29 |
| 8/23/2024 17:30 | 15.49 | 23.51 | 0.01 | 7.23 | 372.42 | 8.72 | 0.5  | 12.36 |
| 8/23/2024 17:20 | 15.5  | 23.7  | 0.01 | 7.2  | 368.39 | 8.73 | 0.51 | 12.26 |
| 8/23/2024 17:10 | 15.5  | 22.99 | 0.01 | 7.28 | 365.61 | 8.7  | 0.52 | 12.24 |
| 8/23/2024 17:00 | 15.51 | 23.11 | 0.01 | 7.21 | 368.21 | 8.7  | 0.49 | 12.26 |
| 8/23/2024 16:50 | 15.51 | 22.7  | 0.01 | 7.23 | 372.28 | 8.72 | 0.5  | 12.29 |
| 8/23/2024 16:40 | 15.52 | 22.67 | 0.01 | 7.23 | 367.1  | 8.75 | 0.51 | 12.43 |
| 8/23/2024 16:30 | 15.53 | 22.29 | 0.01 | 7.25 | 367.78 | 8.75 | 0.5  | 12.53 |
| 8/23/2024 16:20 | 15.52 | 22.45 | 0.01 | 7.22 | 366.83 | 8.75 | 0.54 | 12.48 |
| 8/23/2024 16:10 | 15.52 | 22.25 | 0.01 | 7.24 | 366.95 | 8.75 | 0.51 | 12.62 |
| 8/23/2024 16:00 | 15.52 | 22.5  | 0.01 | 7.19 | 368.42 | 8.7  | 0.5  | 12.48 |
| 8/23/2024 15:50 | 15.52 | 22.35 | 0.01 | 7.19 | 370.5  | 8.7  | 0.52 | 12.43 |
| 8/23/2024 15:40 | 15.53 | 22.53 | 0.01 | 7.21 | 369.01 | 8.68 | 0.51 | 12.29 |
| 8/23/2024 15:30 | 15.54 | 22.32 | 0.01 | 7.26 | 367.71 | 8.69 | 0.51 | 12.45 |
| 8/23/2024 15:20 | 15.56 | 22.5  | 0.01 | 7.2  | 369.08 | 8.67 | 0.52 | 12.45 |
| 8/23/2024 15:10 | 15.57 | 22.44 | 0.01 | 7.21 | 369.62 | 8.69 | 0.57 | 12.45 |
| 8/23/2024 15:00 | 15.58 | 22.35 | 0.01 | 7.21 | 367.84 | 8.71 | 0.59 | 12.53 |
| 8/23/2024 14:50 | 15.59 | 22.13 | 0.01 | 7.28 | 367.41 | 8.77 | 0.5  | 12.67 |
| 8/23/2024 14:40 | 15.59 | 22.29 | 0.01 | 7.24 | 366.96 | 8.78 | 0.54 | 12.69 |
| 8/23/2024 14:30 | 15.58 | 22.07 | 0.01 | 7.24 | 369.25 | 8.76 | 0.51 | 12.69 |
| 8/23/2024 14:20 | 15.58 | 22.14 | 0.01 | 7.24 | 366.15 | 8.79 | 0.51 | 12.55 |
| 8/23/2024 14:10 | 15.57 | 21.94 | 0.01 | 7.29 | 363.81 | 8.8  | 0.51 | 12.69 |
| 8/23/2024 14:00 | 15.56 | 22.15 | 0.01 | 7.25 | 366.18 | 8.83 | 0.53 | 12.79 |
| 8/23/2024 13:50 | 15.52 | 22.11 | 0.01 | 7.24 | 369.35 | 8.8  | 0.51 | 12.74 |
| 8/23/2024 13:40 | 15.49 | 22.14 | 0.01 | 7.22 | 367.73 | 8.74 | 0.5  | 12.53 |
| 8/23/2024 13:30 | 15.49 | 21.91 | 0.01 | 7.21 | 369.77 | 8.74 | 0.5  | 12.45 |
| 8/23/2024 13:20 | 15.49 | 22.01 | 0.01 | 7.23 | 366.48 | 8.78 | 0.5  | 12.38 |
| 8/23/2024 13:10 | 15.48 | 21.65 | 0.01 | 7.24 | 366.36 | 8.78 | 0.48 | 12.55 |
| 8/23/2024 13:00 | 15.49 | 21.94 | 0.01 | 7.23 | 366.27 | 8.83 | 0.58 | 12.6  |
| 8/23/2024 12:50 | 15.47 | 21.81 | 0.01 | 7.2  | 368.63 | 8.79 | 0.49 | 12.6  |
| 8/23/2024 12:40 | 15.46 | 21.93 | 0.01 | 7.21 | 366.08 | 8.75 | 0.49 | 12.5  |
| 8/23/2024 12:30 | 15.45 | 21.8  | 0.01 | 7.22 | 365.85 | 8.78 | 0.52 | 12.55 |
| 8/23/2024 12:20 | 15.45 | 21.83 | 0.01 | 7.22 | 363.78 | 8.82 | 0.51 | 12.6  |
| 8/23/2024 12:10 | 15.43 | 21.73 | 0.01 | 7.24 | 364.4  | 8.83 | 1.76 | 12.57 |
| 8/23/2024 12:00 | 15.38 | 21.89 | 0.01 | 7.18 | 367.59 | 8.73 | 0.52 | 12.17 |
| 8/23/2024 11:50 | 15.37 | 21.91 | 0.01 | 7.21 | 368.85 | 8.7  | 0.52 | 12.24 |
| 8/23/2024 11:40 | 15.37 | 21.98 | 0.01 | 7.19 | 371.96 | 8.69 | 0.49 | 12.19 |
| 8/23/2024 11:30 | 15.37 | 21.97 | 0.01 | 7.23 | 373.75 | 8.71 | 0.48 | 12.21 |
| 8/23/2024 11:20 | 15.38 | 22.05 | 0.01 | 7.21 | 372.63 | 8.71 | 0.48 | 12.24 |
| 8/23/2024 11:10 | 15.38 | 21.94 | 0.01 | 7.24 | 373.54 | 8.74 | 0.49 | 12.26 |
| 8/23/2024 11:00 | 15.38 | 21.98 | 0.01 | 7.21 | 373.67 | 8.76 | 0.52 | 12.19 |
| 8/23/2024 10:50 | 15.37 | 21.92 | 0.01 | 7.29 | 374.76 | 8.75 | 0.5  | 12.14 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |        |       |
|-----------------|-------|-------|------|------|--------|------|--------|-------|
| 8/23/2024 10:40 | 15.37 | 21.99 | 0.01 | 7.22 | 373.55 | 8.74 | 0.51   | 12.24 |
| 8/23/2024 10:30 | 15.36 | 21.84 | 0.01 | 7.25 | 374.77 | 8.72 | 0.49   | 12.19 |
| 8/23/2024 10:20 | 15.36 | 22.03 | 0.01 | 7.2  | 373.27 | 8.74 | 0.5    | 12.07 |
| 8/23/2024 10:10 | 15.36 | 21.87 | 0.01 | 7.26 | 371.25 | 8.74 | 0.49   | 12.17 |
| 8/23/2024 10:10 | 15.36 | 21.87 | 0.01 | 7.26 | 371.25 | 8.74 | 0.49   | 12.17 |
| 8/23/2024 10:00 | 15.36 | 21.96 | 0.01 | 7.2  | 375.51 | 8.74 | 0.5    | 12.29 |
| 8/23/2024 9:50  | 15.36 | 21.86 | 0.01 | 7.22 | 376.68 | 8.72 | 0.51   | 12.24 |
| 8/23/2024 9:40  | 15.36 | 22.08 | 0.01 | 7.18 | 377.16 | 8.69 | 0.51   | 12.09 |
| 8/23/2024 9:30  | 15.36 | 21.93 | 0.01 | 7.25 | 378.84 | 8.69 | 0.49   | 12.09 |
| 8/23/2024 9:20  | 15.36 | 22.12 | 0.01 | 7.17 | 379.21 | 8.71 | 0.5    | 12.24 |
| 8/23/2024 9:10  | 15.35 | 22    | 0.01 | 7.22 | 380.51 | 8.72 | 0.48   | 12.24 |
| 8/23/2024 9:00  | 15.35 | 22.01 | 0.01 | 7.16 | 380.45 | 8.69 | 0.48   | 12.21 |
| 8/23/2024 8:50  | 15.34 | 21.94 | 0.01 | 7.26 | 379.17 | 8.7  | 0.51   | 12.19 |
| 8/23/2024 8:40  | 15.34 | 22.01 | 0.01 | 7.17 | 381.15 | 8.68 | 0.51   | 12.19 |
| 8/23/2024 8:30  | 15.34 | 21.92 | 0.01 | 7.26 | 379.94 | 8.7  | 0.5    | 12.19 |
| 8/23/2024 8:20  | 15.34 | 21.94 | 0.01 | 7.19 | 380.4  | 8.68 | 0.49   | 12.19 |
| 8/23/2024 8:10  | 15.34 | 21.61 | 0.01 | 7.29 | 383.22 | 8.72 | 0.51   | 12.12 |
| 8/23/2024 8:00  | 15.33 | 21.89 | 0.01 | 7.2  | 380.02 | 8.71 | 0.47   | 12.14 |
| 8/23/2024 7:50  | 15.33 | 21.73 | 0.01 | 7.33 | 382.12 | 8.71 | 0.48   | 12.26 |
| 8/23/2024 7:40  | 15.33 | 21.88 | 0.01 | 7.21 | 379.43 | 8.72 | 0.51   | 12.21 |
| 8/23/2024 7:30  | 15.32 | 21.75 | 0.01 | 7.27 | 382.52 | 8.7  | 0.49   | 12.31 |
| 8/23/2024 7:20  | 15.32 | 21.95 | 0.01 | 7.18 | 379.2  | 8.69 | 0.51   | 12.24 |
| 8/23/2024 7:10  | 15.31 | 21.88 | 0.01 | 7.3  | 378.91 | 8.67 | 0.49   | 12.12 |
| 8/23/2024 7:00  | 15.32 | 21.98 | 0.01 | 7.17 | 378.94 | 8.66 | 0.5    | 12.09 |
| 8/23/2024 6:50  | 15.32 | 21.86 | 0.01 | 7.2  | 379.35 | 8.68 | 0.48   | 12.07 |
| 8/23/2024 6:40  | 15.33 | 22.03 | 0.01 | 7.17 | 379.63 | 8.64 | 0.49   | 12.07 |
| 8/23/2024 6:30  | 15.33 | 21.88 | 0.01 | 7.23 | 376.91 | 8.62 | 0.51   | 12.17 |
| 8/23/2024 6:20  | 15.34 | 21.96 | 0.01 | 7.16 | 381.22 | 8.64 | 0.49   | 12.17 |
| 8/23/2024 6:10  | 15.34 | 22.1  | 0.01 | 7.18 | 380.9  | 8.63 | 0.49   | 12.17 |
| 8/23/2024 6:00  | 15.35 | 22.03 | 0.01 | 7.16 | 381.17 | 8.63 | 0.5    | 12.19 |
| 8/23/2024 5:50  | 15.36 | 22.08 | 0.01 | 7.22 | 380.18 | 8.63 | 0.49   | 12.17 |
| 8/23/2024 5:40  | 15.36 | 22.12 | 0.01 | 7.19 | 380.34 | 8.62 | 0.48   | 12.07 |
| 8/23/2024 5:30  | 15.37 | 21.77 | 0.01 | 7.23 | 379.94 | 8.63 | 0.5    | 12.07 |
| 8/23/2024 5:20  | 15.38 | 22.17 | 0.01 | 7.19 | 381.42 | 8.63 | 0.49   | 12.07 |
| 8/23/2024 5:10  | 15.38 | 22.07 | 0.01 | 7.25 | 383.6  | 8.64 | 0.5    | 12.09 |
| 8/23/2024 5:00  | 15.38 | 22.19 | 0.01 | 7.19 | 382.75 | 8.64 | 0.51   | 12.09 |
| 8/23/2024 4:50  | 15.38 | 22.17 | 0.01 | 7.23 | 383.86 | 8.65 | 0.51   | 12.09 |
| 8/23/2024 4:40  | 15.38 | 22.16 | 0.01 | 7.18 | 383.18 | 8.65 | 0.51   | 12.09 |
| 8/23/2024 4:30  | 15.38 | 22.03 | 0.01 | 7.31 | 382.69 | 8.66 | 0.5    | 12.09 |
| 8/23/2024 4:20  | 15.39 | 22.13 | 0.01 | 7.17 | 382.48 | 8.64 | 113.85 | 12.09 |
| 8/23/2024 4:10  | 15.39 | 22.19 | 0.01 | 7.2  | 381.61 | 8.66 | 0.5    | 12.09 |
| 8/23/2024 4:00  | 15.39 | 22.22 | 0.01 | 7.2  | 383.77 | 8.64 | 0.5    | 12.19 |
| 8/23/2024 3:50  | 15.39 | 22.19 | 0.01 | 7.31 | 382.38 | 8.66 | 0.49   | 12.21 |
| 8/23/2024 3:40  | 15.39 | 22.17 | 0.01 | 7.22 | 382.5  | 8.64 | 0.48   | 12.19 |
| 8/23/2024 3:30  | 15.38 | 22.13 | 0.01 | 7.22 | 382.46 | 8.64 | 0.5    | 12.21 |
| 8/23/2024 3:20  | 15.38 | 22.26 | 0.01 | 7.25 | 381.46 | 8.65 | 0.49   | 12.21 |
| 8/23/2024 3:10  | 15.38 | 22.09 | 0.01 | 7.25 | 379.68 | 8.65 | 0.49   | 12.21 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/23/2024 3:00  | 15.39 | 22.22 | 0.01 | 7.19 | 380.95 | 8.65 | 0.48 | 12.21 |
| 8/23/2024 2:50  | 15.39 | 22.1  | 0.01 | 7.23 | 381.66 | 8.64 | 0.5  | 12.21 |
| 8/23/2024 2:40  | 15.4  | 22.22 | 0.01 | 7.21 | 382.25 | 8.62 | 0.48 | 12.21 |
| 8/23/2024 2:30  | 15.41 | 22.09 | 0.01 | 7.17 | 382.83 | 8.63 | 0.53 | 12.21 |
| 8/23/2024 2:20  | 15.41 | 22.17 | 0.01 | 7.2  | 383.73 | 8.65 | 0.5  | 12.21 |
| 8/23/2024 2:10  | 15.41 | 22.19 | 0.01 | 7.16 | 384.77 | 8.63 | 0.47 | 12.12 |
| 8/23/2024 2:00  | 15.42 | 22.17 | 0.01 | 7.19 | 384.46 | 8.64 | 0.49 | 12.12 |
| 8/23/2024 1:50  | 15.42 | 22.07 | 0.01 | 7.19 | 385.38 | 8.63 | 0.49 | 12.21 |
| 8/23/2024 1:40  | 15.43 | 22.18 | 0.01 | 7.2  | 386.02 | 8.63 | 0.5  | 12.12 |
| 8/23/2024 1:30  | 15.44 | 22.22 | 0.01 | 7.28 | 387.85 | 8.63 | 0.5  | 12.12 |
| 8/23/2024 1:20  | 15.44 | 22.23 | 0.01 | 7.23 | 386.65 | 8.63 | 0.71 | 12.21 |
| 8/23/2024 1:10  | 15.45 | 22.2  | 0.01 | 7.33 | 384.16 | 8.62 | 0.49 | 12.24 |
| 8/23/2024 1:00  | 15.45 | 22.28 | 0.01 | 7.23 | 386.1  | 8.63 | 0.5  | 12.21 |
| 8/23/2024 0:50  | 15.46 | 22.17 | 0.01 | 7.28 | 385.96 | 8.63 | 0.51 | 12.21 |
| 8/23/2024 0:40  | 15.47 | 22.27 | 0.01 | 7.16 | 385.53 | 8.62 | 0.49 | 12.21 |
| 8/23/2024 0:30  | 15.49 | 22.33 | 0.01 | 7.23 | 382.27 | 8.61 | 0.5  | 12.21 |
| 8/23/2024 0:30  | 15.49 | 22.33 | 0.01 | 7.23 | 382.27 | 8.61 | 0.5  | 12.21 |
| 8/23/2024 0:20  | 15.5  | 22.37 | 0.01 | 7.18 | 385.1  | 8.6  | 0.52 | 12.21 |
| 8/23/2024 0:10  | 15.52 | 22.17 | 0.01 | 7.29 | 386.69 | 8.62 | 0.54 | 12.24 |
| 8/23/2024 0:00  | 15.53 | 22.36 | 0.01 | 7.23 | 385.35 | 8.62 | 0.51 | 12.24 |
| 8/22/2024 23:50 | 15.55 | 22.31 | 0.01 | 7.2  | 384.73 | 8.61 | 0.54 | 12.24 |
| 8/22/2024 23:40 | 15.57 | 22.39 | 0.01 | 7.24 | 383.42 | 8.61 | 0.49 | 12.24 |
| 8/22/2024 23:30 | 15.58 | 22.28 | 0.01 | 7.21 | 383.26 | 8.59 | 0.53 | 12.24 |
| 8/22/2024 23:20 | 15.61 | 22.49 | 0.01 | 7.19 | 381.63 | 8.59 | 0.52 | 12.26 |
| 8/22/2024 23:10 | 15.62 | 22.44 | 0.01 | 7.33 | 377.79 | 8.58 | 0.51 | 12.24 |
| 8/22/2024 23:00 | 15.64 | 22.48 | 0.01 | 7.19 | 379.27 | 8.59 | 0.52 | 12.26 |
| 8/22/2024 22:50 | 15.65 | 22.62 | 0.01 | 7.27 | 375.49 | 8.58 | 0.5  | 12.26 |
| 8/22/2024 22:40 | 15.67 | 22.53 | 0.01 | 7.15 | 378.41 | 8.57 | 0.53 | 12.17 |
| 8/22/2024 22:30 | 15.68 | 22.61 | 0.01 | 7.14 | 379.85 | 8.56 | 0.52 | 12.17 |
| 8/22/2024 22:20 | 15.7  | 22.61 | 0.01 | 7.19 | 378.35 | 8.57 | 0.52 | 12.26 |
| 8/22/2024 22:10 | 15.71 | 22.52 | 0.01 | 7.17 | 377.4  | 8.57 | 0.5  | 12.17 |
| 8/22/2024 22:00 | 15.73 | 22.6  | 0.01 | 7.14 | 378.45 | 8.56 | 0.52 | 12.17 |
| 8/22/2024 21:50 | 15.74 | 22.61 | 0.01 | 7.21 | 374.57 | 8.55 | 0.52 | 12.26 |
| 8/22/2024 21:50 | 15.74 | 22.61 | 0.01 | 7.21 | 374.57 | 8.55 | 0.52 | 12.26 |
| 8/22/2024 21:40 | 15.76 | 22.6  | 0.01 | 7.2  | 379.24 | 8.56 | 0.54 | 12.26 |
| 8/22/2024 21:30 | 15.77 | 22.49 | 0.01 | 7.16 | 379.18 | 8.58 | 0.51 | 12.29 |
| 8/22/2024 21:20 | 15.78 | 22.67 | 0.01 | 7.15 | 379.28 | 8.57 | 0.49 | 12.29 |
| 8/22/2024 21:10 | 15.79 | 22.74 | 0.01 | 7.17 | 380.12 | 8.56 | 0.53 | 12.29 |
| 8/22/2024 21:00 | 15.8  | 22.65 | 0.01 | 7.16 | 379.18 | 8.55 | 0.53 | 12.29 |
| 8/22/2024 20:50 | 15.81 | 22.61 | 0.01 | 7.15 | 379.8  | 8.57 | 0.51 | 12.29 |
| 8/22/2024 20:40 | 15.82 | 22.58 | 0.01 | 7.22 | 380.13 | 8.55 | 0.52 | 12.19 |
| 8/22/2024 20:30 | 15.83 | 22.55 | 0.01 | 7.27 | 378.61 | 8.57 | 0.53 | 12.26 |
| 8/22/2024 20:20 | 15.85 | 22.64 | 0.01 | 7.21 | 378.78 | 8.56 | 0.51 | 12.29 |
| 8/22/2024 20:10 | 15.86 | 22.51 | 0.01 | 7.22 | 376.06 | 8.58 | 0.54 | 12.31 |
| 8/22/2024 20:00 | 15.87 | 22.57 | 0.01 | 7.25 | 377.66 | 8.59 | 0.52 | 12.36 |
| 8/22/2024 19:50 | 15.88 | 22.54 | 0.01 | 7.26 | 376.28 | 8.59 | 0.51 | 12.36 |
| 8/22/2024 19:40 | 15.9  | 22.59 | 0.01 | 7.19 | 375.01 | 8.6  | 0.5  | 12.38 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/22/2024 19:30 | 15.91 | 22.48 | 0.01 | 7.17 | 375.99 | 8.62 | 0.52 | 12.38 |
| 8/22/2024 19:20 | 15.92 | 22.37 | 0.01 | 7.25 | 374.94 | 8.62 | 0.53 | 12.38 |
| 8/22/2024 19:10 | 15.92 | 22.24 | 0.01 | 7.27 | 373.45 | 8.63 | 0.54 | 12.31 |
| 8/22/2024 19:00 | 15.94 | 22.33 | 0.01 | 7.25 | 374.47 | 8.65 | 0.54 | 12.36 |
| 8/22/2024 18:50 | 15.94 | 22.23 | 0.01 | 7.34 | 372.95 | 8.66 | 0.51 | 12.62 |
| 8/22/2024 18:40 | 15.95 | 22.2  | 0.01 | 7.27 | 373.02 | 8.68 | 0.52 | 12.67 |
| 8/22/2024 18:30 | 15.95 | 22.16 | 0.01 | 7.29 | 371.78 | 8.68 | 0.54 | 12.69 |
| 8/22/2024 18:20 | 15.96 | 22.21 | 0.01 | 7.26 | 371.09 | 8.66 | 0.51 | 12.67 |
| 8/22/2024 18:10 | 15.95 | 21.96 | 0.01 | 7.25 | 372.62 | 8.67 | 0.53 | 12.65 |
| 8/22/2024 18:00 | 15.95 | 22.19 | 0.01 | 7.2  | 371.81 | 8.64 | 0.53 | 12.62 |
| 8/22/2024 17:50 | 15.96 | 22.05 | 0.01 | 7.2  | 370.94 | 8.66 | 0.5  | 12.65 |
| 8/22/2024 17:40 | 15.96 | 22.06 | 0.01 | 7.23 | 372.01 | 8.66 | 0.54 | 12.67 |
| 8/22/2024 17:30 | 15.97 | 22.14 | 0.01 | 7.34 | 368.35 | 8.69 | 0.53 | 12.65 |
| 8/22/2024 17:20 | 15.97 | 21.95 | 0.01 | 7.25 | 369.09 | 8.73 | 0.55 | 12.69 |
| 8/22/2024 17:10 | 15.97 | 21.73 | 0.01 | 7.27 | 365.66 | 8.77 | 0.52 | 13.1  |
| 8/22/2024 17:00 | 15.96 | 21.91 | 0.01 | 7.31 | 367.45 | 8.76 | 0.53 | 13.36 |
| 8/22/2024 16:50 | 15.96 | 21.73 | 0.01 | 7.33 | 368.23 | 8.76 | 0.53 | 12.98 |
| 8/22/2024 16:40 | 15.97 | 21.9  | 0.01 | 7.29 | 367.53 | 8.76 | 0.53 | 12.93 |
| 8/22/2024 16:30 | 15.97 | 21.81 | 0.01 | 7.21 | 368.57 | 8.75 | 0.53 | 12.74 |
| 8/22/2024 16:20 | 15.97 | 21.79 | 0.01 | 7.24 | 365.67 | 8.75 | 0.54 | 12.79 |
| 8/22/2024 16:10 | 15.97 | 21.72 | 0.01 | 7.25 | 363.69 | 8.78 | 0.5  | 12.81 |
| 8/22/2024 16:00 | 15.98 | 21.68 | 0.01 | 7.27 | 362.64 | 8.8  | 0.51 | 12.84 |
| 8/22/2024 15:50 | 15.96 | 21.52 | 0.01 | 7.27 | 360.48 | 8.83 | 0.54 | 13.53 |
| 8/22/2024 15:40 | 15.94 | 21.68 | 0.01 | 7.29 | 359.05 | 8.84 | 0.51 | 13.24 |
| 8/22/2024 15:30 | 15.94 | 21.67 | 0.01 | 7.26 | 358.86 | 8.84 | 0.52 | 13.58 |
| 8/22/2024 15:20 | 15.93 | 21.68 | 0.01 | 7.28 | 357.74 | 8.81 | 0.54 | 13.51 |
| 8/22/2024 15:10 | 15.93 | 21.68 | 0.01 | 7.27 | 357.52 | 8.87 | 0.53 | 13.22 |
| 8/22/2024 15:00 | 15.91 | 21.65 | 0.01 | 7.27 | 357.42 | 8.85 | 0.52 | 13.53 |
| 8/22/2024 14:50 | 15.89 | 21.65 | 0.01 | 7.26 | 358.11 | 8.83 | 0.56 | 13.53 |
| 8/22/2024 14:40 | 15.88 | 21.6  | 0.01 | 7.28 | 357.66 | 8.88 | 0.52 | 13.44 |
| 8/22/2024 14:30 | 15.88 | 21.46 | 0.01 | 7.28 | 356.25 | 8.89 | 0.54 | 13.53 |
| 8/22/2024 14:20 | 15.86 | 21.65 | 0.01 | 7.28 | 356.76 | 8.86 | 0.52 | 13.53 |
| 8/22/2024 14:10 | 15.84 | 21.49 | 0.01 | 7.27 | 355.39 | 8.86 | 0.51 | 13.22 |
| 8/22/2024 14:00 | 15.85 | 21.67 | 0.01 | 7.29 | 355.16 | 8.87 | 0.49 | 13.53 |
| 8/22/2024 13:50 | 15.85 | 21.5  | 0.01 | 7.32 | 352    | 8.92 | 0.52 | 13.48 |
| 8/22/2024 13:40 | 15.83 | 21.58 | 0.01 | 7.3  | 354.41 | 8.91 | 0.5  | 13.56 |
| 8/22/2024 13:30 | 15.79 | 21.47 | 0.01 | 7.3  | 353.19 | 8.91 | 0.52 | 13.56 |
| 8/22/2024 13:20 | 15.77 | 21.65 | 0.01 | 7.28 | 356.35 | 8.91 | 0.52 | 13.53 |
| 8/22/2024 13:10 | 15.76 | 21.42 | 0.01 | 7.28 | 354.44 | 8.92 | 0.52 | 13.53 |
| 8/22/2024 13:00 | 15.74 | 21.64 | 0.01 | 7.27 | 356.35 | 8.92 | 0.51 | 13.53 |
| 8/22/2024 12:50 | 15.71 | 21.49 | 0.01 | 7.27 | 355.49 | 8.88 | 0.5  | 13.34 |
| 8/22/2024 12:40 | 15.69 | 21.64 | 0.01 | 7.26 | 357.09 | 8.85 | 0.53 | 12.79 |
| 8/22/2024 12:30 | 15.73 | 21.6  | 0.01 | 7.3  | 352.91 | 8.9  | 0.54 | 12.93 |
| 8/22/2024 12:20 | 15.78 | 21.56 | 0.01 | 7.29 | 353.73 | 8.96 | 0.52 | 13.22 |
| 8/22/2024 12:10 | 15.83 | 21.58 | 0.01 | 7.3  | 351.6  | 8.96 | 0.51 | 13.36 |
| 8/22/2024 12:00 | 15.86 | 21.61 | 0.01 | 7.31 | 352.41 | 8.98 | 0.53 | 13.39 |
| 8/22/2024 11:50 | 15.8  | 21.58 | 0.01 | 7.35 | 350.5  | 9.01 | 0.52 | 13.48 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |       |       |
|-----------------|-------|-------|------|------|--------|------|-------|-------|
| 8/22/2024 11:40 | 15.8  | 21.59 | 0.01 | 7.3  | 353.33 | 8.97 | 0.51  | 13.48 |
| 8/22/2024 11:30 | 15.81 | 21.61 | 0.01 | 7.29 | 352.13 | 9    | 0.51  | 13.41 |
| 8/22/2024 11:20 | 15.8  | 21.51 | 0.01 | 7.29 | 352.25 | 9.02 | 0.52  | 13.48 |
| 8/22/2024 11:10 | 15.68 | 21.63 | 0.01 | 7.29 | 352.8  | 8.99 | 0.5   | 13.48 |
| 8/22/2024 11:00 | 15.58 | 21.53 | 0.01 | 7.27 | 353.89 | 9.01 | 0.49  | 13.12 |
| 8/22/2024 10:50 | 15.56 | 21.45 | 0.01 | 7.3  | 352.25 | 9.01 | 0.5   | 13.48 |
| 8/22/2024 10:40 | 15.59 | 21.53 | 0.01 | 7.29 | 353.59 | 9    | 0.48  | 13.48 |
| 8/22/2024 10:30 | 15.48 | 21.41 | 0.01 | 7.29 | 351.85 | 9.03 | 0.5   | 13.48 |
| 8/22/2024 10:20 | 15.33 | 21.51 | 0.01 | 7.28 | 354.08 | 9.01 | 0.49  | 13.48 |
| 8/22/2024 10:10 | 15.25 | 21.46 | 0.01 | 7.24 | 355.41 | 8.98 | 0.48  | 13.1  |
| 8/22/2024 10:00 | 15.22 | 21.62 | 0.01 | 7.25 | 357.39 | 8.96 | 0.5   | 13.27 |
| 8/22/2024 9:50  | 15.19 | 21.5  | 0.01 | 7.23 | 358.05 | 8.98 | 0.51  | 13.27 |
| 8/22/2024 9:40  | 15.16 | 21.51 | 0.01 | 7.24 | 358.45 | 8.99 | 0.5   | 12.98 |
| 8/22/2024 9:30  | 15.13 | 21.6  | 0.01 | 7.22 | 360.09 | 8.95 | 0.48  | 12.93 |
| 8/22/2024 9:20  | 15.11 | 21.66 | 0.01 | 7.22 | 359.41 | 8.93 | 0.48  | 12.76 |
| 8/22/2024 9:10  | 15.09 | 21.54 | 0.01 | 7.21 | 359.99 | 8.95 | 0.58  | 12.74 |
| 8/22/2024 9:00  | 15.07 | 21.59 | 0.01 | 7.21 | 360.94 | 8.93 | 0.49  | 12.65 |
| 8/22/2024 8:50  | 15.04 | 21.64 | 0.01 | 7.23 | 360.83 | 8.93 | 0.49  | 12.62 |
| 8/22/2024 8:40  | 15.03 | 21.62 | 0.01 | 7.22 | 362.68 | 8.96 | 0.48  | 12.6  |
| 8/22/2024 8:30  | 15.01 | 21.64 | 0.01 | 7.23 | 362.51 | 8.93 | 0.49  | 12.41 |
| 8/22/2024 8:20  | 15    | 21.6  | 0.01 | 7.24 | 365.07 | 8.93 | 0.49  | 12.24 |
| 8/22/2024 8:10  | 14.98 | 21.18 | 0.01 | 7.21 | 366.08 | 8.94 | 0.47  | 12.14 |
| 8/22/2024 8:00  | 14.97 | 21.73 | 0.01 | 7.2  | 366.2  | 8.91 | 0.47  | 12.07 |
| 8/22/2024 7:50  | 14.96 | 21.57 | 0.01 | 7.2  | 367.35 | 8.87 | 0.49  | 11.93 |
| 8/22/2024 7:40  | 14.96 | 21.76 | 0.01 | 7.2  | 366.13 | 8.91 | 14.74 | 12.02 |
| 8/22/2024 7:40  | 14.96 | 21.76 | 0.01 | 7.2  | 366.13 | 8.91 | 14.74 | 12.02 |
| 8/22/2024 7:30  | 14.95 | 21.59 | 0.01 | 7.22 | 365.56 | 8.91 | 0.49  | 12.17 |
| 8/22/2024 7:20  | 14.94 | 21.68 | 0.01 | 7.21 | 366.21 | 8.88 | 0.47  | 12.14 |
| 8/22/2024 7:10  | 14.94 | 21.74 | 0.01 | 7.25 | 364.01 | 8.86 | 0.48  | 12.07 |
| 8/22/2024 7:00  | 14.94 | 21.76 | 0.01 | 7.17 | 367.15 | 8.83 | 0.46  | 12.02 |
| 8/22/2024 6:50  | 14.93 | 21.81 | 0.01 | 7.17 | 368.38 | 8.83 | 0.48  | 12    |
| 8/22/2024 6:40  | 14.94 | 21.86 | 0.01 | 7.19 | 367.67 | 8.81 | 0.46  | 11.97 |
| 8/22/2024 6:30  | 14.94 | 21.72 | 0.01 | 7.19 | 368.2  | 8.81 | 0.46  | 11.88 |
| 8/22/2024 6:20  | 14.95 | 21.87 | 0.01 | 7.17 | 367.89 | 8.82 | 0.48  | 11.88 |
| 8/22/2024 6:10  | 14.95 | 21.81 | 0.01 | 7.2  | 367.91 | 8.79 | 0.46  | 11.69 |
| 8/22/2024 6:00  | 14.96 | 21.9  | 0.01 | 7.17 | 368.11 | 8.79 | 0.47  | 11.95 |
| 8/22/2024 5:50  | 14.96 | 21.82 | 0.01 | 7.17 | 369.81 | 8.8  | 0.47  | 11.88 |
| 8/22/2024 5:40  | 14.97 | 21.85 | 0.01 | 7.19 | 369.42 | 8.81 | 0.48  | 11.97 |
| 8/22/2024 5:30  | 14.97 | 21.79 | 0.01 | 7.22 | 368.66 | 8.8  | 0.46  | 11.97 |
| 8/22/2024 5:20  | 14.98 | 21.9  | 0.01 | 7.19 | 368.85 | 8.8  | 0.48  | 11.88 |
| 8/22/2024 5:10  | 14.99 | 21.75 | 0.01 | 7.2  | 368.18 | 8.78 | 0.49  | 11.88 |
| 8/22/2024 5:00  | 14.99 | 21.83 | 0.01 | 7.19 | 367.69 | 8.78 | 0.5   | 11.88 |
| 8/22/2024 4:50  | 15    | 21.63 | 0.01 | 7.21 | 367.04 | 8.8  | 0.47  | 11.88 |
| 8/22/2024 4:40  | 15.01 | 21.87 | 0.01 | 7.18 | 367.1  | 8.78 | 0.49  | 11.97 |
| 8/22/2024 4:30  | 15.01 | 21.7  | 0.01 | 7.21 | 365.67 | 8.79 | 0.48  | 11.97 |
| 8/22/2024 4:20  | 15.02 | 21.91 | 0.01 | 7.17 | 367    | 8.79 | 0.5   | 11.97 |
| 8/22/2024 4:10  | 15.02 | 21.82 | 0.01 | 7.18 | 367.25 | 8.79 | 0.46  | 11.97 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/22/2024 4:00  | 15.03 | 21.95 | 0.01 | 7.17 | 367.1  | 8.78 | 0.49 | 11.97 |
| 8/22/2024 3:50  | 15.03 | 21.88 | 0.01 | 7.19 | 366.93 | 8.8  | 0.49 | 11.97 |
| 8/22/2024 3:40  | 15.04 | 21.96 | 0.01 | 7.17 | 366.69 | 8.78 | 0.45 | 11.88 |
| 8/22/2024 3:30  | 15.04 | 21.81 | 0.01 | 7.14 | 368    | 8.78 | 0.46 | 11.88 |
| 8/22/2024 3:20  | 15.04 | 21.93 | 0.01 | 7.16 | 366.16 | 8.79 | 0.47 | 11.95 |
| 8/22/2024 3:10  | 15.05 | 21.84 | 0.01 | 7.19 | 365.01 | 8.78 | 0.49 | 11.97 |
| 8/22/2024 3:00  | 15.05 | 21.94 | 0.01 | 7.15 | 366.43 | 8.79 | 0.46 | 12    |
| 8/22/2024 2:50  | 15.06 | 21.81 | 0.01 | 7.22 | 364.4  | 8.79 | 0.49 | 11.97 |
| 8/22/2024 2:40  | 15.07 | 21.9  | 0.01 | 7.15 | 367.25 | 8.78 | 0.48 | 11.97 |
| 8/22/2024 2:30  | 15.07 | 21.98 | 0.01 | 7.22 | 365.27 | 8.8  | 0.48 | 11.88 |
| 8/22/2024 2:20  | 15.08 | 22.07 | 0.01 | 7.16 | 367.48 | 8.78 | 0.49 | 12    |
| 8/22/2024 2:10  | 15.08 | 21.94 | 0.01 | 7.2  | 366.89 | 8.78 | 0.47 | 12    |
| 8/22/2024 2:00  | 15.09 | 22.09 | 0.01 | 7.16 | 367.02 | 8.78 | 0.48 | 12    |
| 8/22/2024 1:50  | 15.1  | 22    | 0.01 | 7.23 | 365.49 | 8.8  | 0.47 | 12    |
| 8/22/2024 1:40  | 15.11 | 22.15 | 0.01 | 7.15 | 367.61 | 8.77 | 0.47 | 11.9  |
| 8/22/2024 1:30  | 15.11 | 22.01 | 0.01 | 7.26 | 367.09 | 8.79 | 0.49 | 11.97 |
| 8/22/2024 1:20  | 15.12 | 22.2  | 0.01 | 7.16 | 366.76 | 8.77 | 0.46 | 11.9  |
| 8/22/2024 1:10  | 15.13 | 22.15 | 0.01 | 7.3  | 365.73 | 8.78 | 0.56 | 12    |
| 8/22/2024 1:00  | 15.14 | 22.27 | 0.01 | 7.15 | 366.87 | 8.78 | 0.49 | 12    |
| 8/22/2024 0:50  | 15.14 | 22.2  | 0.01 | 7.26 | 367.82 | 8.78 | 0.48 | 11.9  |
| 8/22/2024 0:40  | 15.16 | 22.36 | 0.01 | 7.16 | 365.91 | 8.76 | 0.47 | 12    |
| 8/22/2024 0:30  | 15.17 | 22.15 | 0.01 | 7.28 | 363    | 8.78 | 0.5  | 11.9  |
| 8/22/2024 0:20  | 15.18 | 22.34 | 0.01 | 7.17 | 363.89 | 8.76 | 0.49 | 11.9  |
| 8/22/2024 0:10  | 15.19 | 22.17 | 0.01 | 7.16 | 364.38 | 8.77 | 0.48 | 11.9  |
| 8/22/2024 0:00  | 15.2  | 22.44 | 0.01 | 7.17 | 364.16 | 8.76 | 0.49 | 11.9  |
| 8/21/2024 23:50 | 15.2  | 22.4  | 0.01 | 7.19 | 362.81 | 8.75 | 0.49 | 11.9  |
| 8/21/2024 23:40 | 15.22 | 22.53 | 0.01 | 7.17 | 364.58 | 8.75 | 0.5  | 12    |
| 8/21/2024 23:30 | 15.23 | 22.46 | 0.01 | 7.15 | 365.8  | 8.76 | 0.52 | 12    |
| 8/21/2024 23:20 | 15.24 | 22.59 | 0.01 | 7.17 | 364.98 | 8.76 | 0.49 | 12    |
| 8/21/2024 23:10 | 15.25 | 22.56 | 0.01 | 7.17 | 365.69 | 8.76 | 0.48 | 12    |
| 8/21/2024 23:00 | 15.27 | 22.66 | 0.01 | 7.17 | 366.04 | 8.74 | 0.49 | 12    |
| 8/21/2024 22:50 | 15.29 | 22.69 | 0.01 | 7.18 | 366.85 | 8.75 | 0.5  | 12.02 |
| 8/21/2024 22:40 | 15.3  | 22.82 | 0.01 | 7.17 | 367.47 | 8.76 | 0.55 | 12    |
| 8/21/2024 22:30 | 15.32 | 22.7  | 0.01 | 7.2  | 366.23 | 8.73 | 0.49 | 12    |
| 8/21/2024 22:20 | 15.34 | 22.98 | 0.01 | 7.16 | 368.83 | 8.74 | 0.49 | 12.02 |
| 8/21/2024 22:10 | 15.36 | 23.07 | 0.01 | 7.22 | 367.38 | 8.72 | 0.48 | 12    |
| 8/21/2024 22:00 | 15.38 | 23.12 | 0.01 | 7.18 | 370.02 | 8.71 | 0.5  | 11.9  |
| 8/21/2024 21:50 | 15.4  | 23.09 | 0.01 | 7.24 | 368.71 | 8.72 | 0.49 | 12    |
| 8/21/2024 21:40 | 15.42 | 23.25 | 0.01 | 7.16 | 371.15 | 8.7  | 0.51 | 12    |
| 8/21/2024 21:30 | 15.44 | 23.27 | 0.01 | 7.19 | 369.55 | 8.71 | 0.51 | 12    |
| 8/21/2024 21:20 | 15.46 | 23.37 | 0.01 | 7.17 | 371.48 | 8.71 | 0.51 | 11.9  |
| 8/21/2024 21:10 | 15.47 | 23.35 | 0.01 | 7.23 | 367.55 | 8.7  | 0.48 | 11.93 |
| 8/21/2024 21:00 | 15.49 | 23.45 | 0.01 | 7.18 | 370.69 | 8.71 | 0.48 | 12.02 |
| 8/21/2024 20:50 | 15.5  | 23.57 | 0.01 | 7.2  | 368.17 | 8.71 | 0.51 | 11.95 |
| 8/21/2024 20:40 | 15.52 | 23.58 | 0.01 | 7.18 | 367.13 | 8.71 | 0.5  | 12.02 |
| 8/21/2024 20:30 | 15.53 | 23.64 | 0.01 | 7.18 | 364.08 | 8.71 | 0.5  | 12.02 |
| 8/21/2024 20:20 | 15.54 | 23.73 | 0.01 | 7.18 | 363.57 | 8.72 | 0.52 | 12.02 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/21/2024 20:10 | 15.56 | 23.71 | 0.01 | 7.17 | 364.29 | 8.7  | 0.51 | 11.97 |
| 8/21/2024 20:00 | 15.57 | 23.75 | 0.01 | 7.19 | 363.83 | 8.7  | 0.47 | 12.12 |
| 8/21/2024 19:50 | 15.58 | 23.6  | 0.01 | 7.19 | 364.66 | 8.73 | 0.51 | 12.14 |
| 8/21/2024 19:40 | 15.59 | 23.83 | 0.01 | 7.2  | 362.8  | 8.71 | 0.5  | 12.14 |
| 8/21/2024 19:30 | 15.59 | 23.73 | 0.01 | 7.22 | 361.6  | 8.73 | 0.5  | 12.19 |
| 8/21/2024 19:20 | 15.6  | 23.67 | 0.01 | 7.21 | 362.09 | 8.73 | 0.51 | 12.21 |
| 8/21/2024 19:10 | 15.6  | 23.65 | 0.01 | 7.23 | 361.54 | 8.75 | 0.5  | 12.21 |
| 8/21/2024 19:00 | 15.61 | 23.58 | 0.01 | 7.21 | 362.91 | 8.74 | 0.5  | 12.21 |
| 8/21/2024 18:50 | 15.62 | 23.18 | 0.01 | 7.23 | 362.38 | 8.75 | 0.5  | 12.19 |
| 8/21/2024 18:40 | 15.62 | 23.26 | 0.01 | 7.21 | 364.15 | 8.77 | 0.53 | 12.29 |
| 8/21/2024 18:30 | 15.62 | 22.91 | 0.01 | 7.19 | 365.76 | 8.77 | 0.53 | 12.17 |
| 8/21/2024 18:20 | 15.63 | 22.82 | 0.01 | 7.21 | 365.17 | 8.77 | 0.52 | 12.17 |
| 8/21/2024 18:10 | 15.62 | 22.74 | 0.01 | 7.19 | 366.07 | 8.76 | 0.52 | 12.24 |
| 8/21/2024 18:00 | 15.63 | 22.65 | 0.01 | 7.21 | 365.59 | 8.74 | 0.52 | 12.12 |
| 8/21/2024 17:50 | 15.64 | 22.59 | 0.01 | 7.22 | 363.47 | 8.74 | 0.5  | 12.24 |
| 8/21/2024 17:40 | 15.66 | 22.58 | 0.01 | 7.21 | 364.42 | 8.75 | 0.52 | 12.19 |
| 8/21/2024 17:30 | 15.66 | 22.47 | 0.01 | 7.22 | 363.12 | 8.75 | 0.53 | 12.24 |
| 8/21/2024 17:20 | 15.67 | 22.57 | 0.01 | 7.21 | 363.86 | 8.76 | 0.52 | 12.43 |
| 8/21/2024 17:10 | 15.67 | 22.53 | 0.01 | 7.23 | 359.25 | 8.77 | 0.53 | 12.38 |
| 8/21/2024 17:00 | 15.68 | 22.5  | 0.01 | 7.21 | 359.27 | 8.8  | 0.55 | 12.53 |
| 8/21/2024 16:50 | 15.68 | 22.6  | 0.01 | 7.23 | 359.07 | 8.8  | 0.53 | 12.53 |
| 8/21/2024 16:40 | 15.68 | 22.49 | 0.01 | 7.22 | 358.56 | 8.82 | 0.52 | 12.6  |
| 8/21/2024 16:30 | 15.68 | 22.59 | 0.01 | 7.29 | 355.69 | 8.83 | 0.53 | 12.62 |
| 8/21/2024 16:20 | 15.68 | 22.44 | 0.01 | 7.23 | 357.82 | 8.83 | 0.52 | 12.62 |
| 8/21/2024 16:10 | 15.68 | 22.32 | 0.01 | 7.24 | 358.56 | 8.84 | 0.5  | 12.67 |
| 8/21/2024 16:00 | 15.67 | 22.38 | 0.01 | 7.23 | 358.66 | 8.86 | 0.53 | 12.72 |
| 8/21/2024 15:50 | 15.65 | 22.29 | 0.01 | 7.23 | 359.14 | 8.84 | 0.49 | 12.69 |
| 8/21/2024 15:40 | 15.64 | 22.37 | 0.01 | 7.22 | 360.21 | 8.82 | 0.53 | 12.62 |
| 8/21/2024 15:30 | 15.63 | 22.33 | 0.01 | 7.19 | 362.64 | 8.78 | 0.52 | 12.53 |
| 8/21/2024 15:20 | 15.63 | 22.41 | 0.01 | 7.21 | 362.78 | 8.79 | 0.52 | 12.53 |
| 8/21/2024 15:10 | 15.63 | 22.27 | 0.01 | 7.19 | 363.62 | 8.79 | 0.54 | 12.41 |
| 8/21/2024 15:00 | 15.63 | 22.34 | 0.01 | 7.2  | 363.46 | 8.77 | 0.5  | 12.36 |
| 8/21/2024 14:50 | 15.63 | 22.35 | 0.01 | 7.23 | 362.27 | 8.78 | 0.52 | 12.31 |
| 8/21/2024 14:40 | 15.63 | 22.17 | 0.01 | 7.23 | 363.87 | 8.8  | 0.52 | 12.43 |
| 8/21/2024 14:30 | 15.63 | 22.04 | 0.01 | 7.29 | 359.89 | 8.81 | 0.53 | 12.38 |
| 8/21/2024 14:20 | 15.63 | 22.07 | 0.01 | 7.24 | 363.69 | 8.79 | 0.5  | 12.5  |
| 8/21/2024 14:10 | 15.62 | 22.05 | 0.01 | 7.24 | 364.11 | 8.79 | 0.52 | 12.55 |
| 8/21/2024 14:00 | 15.62 | 22.08 | 0.01 | 7.25 | 365.46 | 8.77 | 0.51 | 12.48 |
| 8/21/2024 13:50 | 15.62 | 21.81 | 0.01 | 7.28 | 363.85 | 8.79 | 0.54 | 12.38 |
| 8/21/2024 13:40 | 15.63 | 21.92 | 0.01 | 7.25 | 366.11 | 8.8  | 0.52 | 12.38 |
| 8/21/2024 13:30 | 15.63 | 21.76 | 0.01 | 7.25 | 368.74 | 8.8  | 0.5  | 12.5  |
| 8/21/2024 13:20 | 15.63 | 21.91 | 0.01 | 7.29 | 367.58 | 8.77 | 0.51 | 12.45 |
| 8/21/2024 13:10 | 15.62 | 21.99 | 0.01 | 7.19 | 369.99 | 8.76 | 0.52 | 12.29 |
| 8/21/2024 13:00 | 15.63 | 22.05 | 0.01 | 7.31 | 368.87 | 8.73 | 0.5  | 12.33 |
| 8/21/2024 12:50 | 15.63 | 21.87 | 0.01 | 7.34 | 368.46 | 8.75 | 0.53 | 12.29 |
| 8/21/2024 12:40 | 15.64 | 21.97 | 0.01 | 7.29 | 368.21 | 8.74 | 0.53 | 12.26 |
| 8/21/2024 12:30 | 15.65 | 21.92 | 0.01 | 7.33 | 368.24 | 8.74 | 0.54 | 12.24 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/21/2024 12:20 | 15.65 | 21.89 | 0.01 | 7.3  | 368.33 | 8.75 | 0.52 | 12.26 |
| 8/21/2024 12:10 | 15.66 | 21.76 | 0.01 | 7.35 | 364.26 | 8.74 | 0.54 | 12.26 |
| 8/21/2024 12:00 | 15.66 | 21.91 | 0.01 | 7.24 | 368.07 | 8.75 | 0.51 | 12.29 |
| 8/21/2024 11:50 | 15.66 | 21.83 | 0.01 | 7.29 | 366.61 | 8.77 | 0.52 | 12.29 |
| 8/21/2024 11:40 | 15.67 | 21.92 | 0.01 | 7.26 | 367.81 | 8.76 | 0.5  | 12.24 |
| 8/21/2024 11:30 | 15.66 | 21.87 | 0.01 | 7.22 | 368.48 | 8.75 | 0.53 | 12.02 |
| 8/21/2024 11:20 | 15.67 | 21.95 | 0.01 | 7.22 | 369.03 | 8.74 | 0.52 | 12.09 |
| 8/21/2024 11:10 | 15.66 | 21.8  | 0.01 | 7.27 | 365.76 | 8.76 | 0.99 | 12    |
| 8/21/2024 11:00 | 15.67 | 21.86 | 0.01 | 7.26 | 368.32 | 8.77 | 0.53 | 12.12 |
| 8/21/2024 10:50 | 15.66 | 21.85 | 0.01 | 7.23 | 367.78 | 8.77 | 0.87 | 12.12 |
| 8/21/2024 10:40 | 15.66 | 21.9  | 0.01 | 7.25 | 369.34 | 8.75 | 0.51 | 12.17 |
| 8/21/2024 10:30 | 15.66 | 21.74 | 0.01 | 7.27 | 368.43 | 8.79 | 0.53 | 12.29 |
| 8/21/2024 10:20 | 15.66 | 21.86 | 0.01 | 7.21 | 369.64 | 8.78 | 0.57 | 12.26 |
| 8/21/2024 10:10 | 15.65 | 21.78 | 0.01 | 7.24 | 368.03 | 8.77 | 0.52 | 12.17 |
| 8/21/2024 10:00 | 15.64 | 21.93 | 0.01 | 7.22 | 371.43 | 8.72 | 0.53 | 12.14 |
| 8/21/2024 9:50  | 15.64 | 21.87 | 0.01 | 7.25 | 369.72 | 8.72 | 0.54 | 11.97 |
| 8/21/2024 9:40  | 15.64 | 21.99 | 0.01 | 7.22 | 370.19 | 8.73 | 0.52 | 12.14 |
| 8/21/2024 9:30  | 15.64 | 21.91 | 0.01 | 7.25 | 369.2  | 8.72 | 0.53 | 12.14 |
| 8/21/2024 9:20  | 15.64 | 22.06 | 0.01 | 7.21 | 368.2  | 8.7  | 0.53 | 12.09 |
| 8/21/2024 9:10  | 15.64 | 21.86 | 0.01 | 7.23 | 368.72 | 8.66 | 0.51 | 12.09 |
| 8/21/2024 9:00  | 15.65 | 22.06 | 0.01 | 7.2  | 367.34 | 8.69 | 0.52 | 12.07 |
| 8/21/2024 8:50  | 15.65 | 21.96 | 0.01 | 7.21 | 368.66 | 8.68 | 0.53 | 12.07 |
| 8/21/2024 8:40  | 15.66 | 22.1  | 0.01 | 7.2  | 368.06 | 8.67 | 0.51 | 11.95 |
| 8/21/2024 8:30  | 15.67 | 22.07 | 0.01 | 7.19 | 371    | 8.68 | 0.52 | 12.02 |
| 8/21/2024 8:20  | 15.68 | 22.12 | 0.01 | 7.19 | 371.21 | 8.66 | 0.51 | 12.05 |
| 8/21/2024 8:10  | 15.68 | 22.11 | 0.01 | 7.22 | 372.71 | 8.69 | 0.49 | 12.07 |
| 8/21/2024 8:00  | 15.69 | 22.2  | 0.01 | 7.2  | 372.65 | 8.67 | 0.51 | 11.97 |
| 8/21/2024 7:50  | 15.69 | 22.03 | 0.01 | 7.2  | 373.83 | 8.67 | 0.52 | 12.05 |
| 8/21/2024 7:40  | 15.69 | 22.21 | 0.01 | 7.19 | 374.58 | 8.65 | 0.52 | 11.95 |
| 8/21/2024 7:30  | 15.7  | 21.95 | 0.01 | 7.25 | 372.26 | 8.66 | 0.52 | 11.95 |
| 8/21/2024 7:20  | 15.7  | 22.21 | 0.01 | 7.21 | 375.05 | 8.66 | 0.53 | 12.02 |
| 8/21/2024 7:10  | 15.7  | 22.2  | 0.01 | 7.22 | 374.33 | 8.65 | 0.51 | 11.95 |
| 8/21/2024 7:00  | 15.71 | 22.23 | 0.01 | 7.26 | 375.98 | 8.65 | 0.52 | 11.97 |
| 8/21/2024 6:50  | 15.71 | 22.24 | 0.01 | 7.21 | 374.87 | 8.64 | 0.5  | 12.05 |
| 8/21/2024 6:40  | 15.72 | 22.23 | 0.01 | 7.23 | 376.58 | 8.64 | 0.51 | 12.07 |
| 8/21/2024 6:30  | 15.72 | 22.28 | 0.01 | 7.19 | 374.58 | 8.64 | 0.53 | 12.07 |
| 8/21/2024 6:20  | 15.72 | 22.2  | 0.01 | 7.23 | 375.37 | 8.64 | 0.53 | 12.07 |
| 8/21/2024 6:10  | 15.73 | 22.19 | 0.01 | 7.24 | 371.22 | 8.65 | 0.52 | 12.07 |
| 8/21/2024 6:00  | 15.73 | 22.27 | 0.01 | 7.24 | 375.12 | 8.64 | 0.49 | 11.97 |
| 8/21/2024 5:50  | 15.74 | 22.27 | 0.01 | 7.16 | 374.99 | 8.63 | 0.51 | 12.05 |
| 8/21/2024 5:40  | 15.75 | 22.25 | 0.01 | 7.16 | 376.41 | 8.63 | 0.51 | 12.09 |
| 8/21/2024 5:30  | 15.75 | 22.22 | 0.01 | 7.17 | 374.35 | 8.64 | 0.49 | 12    |
| 8/21/2024 5:20  | 15.76 | 22.24 | 0.01 | 7.21 | 375.76 | 8.61 | 0.52 | 12.09 |
| 8/21/2024 5:10  | 15.76 | 22.17 | 0.01 | 7.15 | 373.79 | 8.62 | 0.5  | 12.09 |
| 8/21/2024 5:00  | 15.77 | 22.26 | 0.01 | 7.16 | 374.71 | 8.63 | 0.51 | 12    |
| 8/21/2024 4:50  | 15.78 | 22.29 | 0.01 | 7.16 | 374.33 | 8.64 | 0.53 | 12.02 |
| 8/21/2024 4:40  | 15.78 | 22.21 | 0.01 | 7.24 | 374.35 | 8.63 | 0.53 | 12.09 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/21/2024 4:30  | 15.79 | 22.34 | 0.01 | 7.24 | 371    | 8.62 | 0.52 | 12.02 |
| 8/21/2024 4:20  | 15.8  | 22.26 | 0.01 | 7.21 | 374.05 | 8.62 | 0.54 | 12.14 |
| 8/21/2024 4:10  | 15.8  | 22.31 | 0.01 | 7.16 | 372.46 | 8.64 | 0.52 | 12.14 |
| 8/21/2024 4:00  | 15.81 | 22.3  | 0.01 | 7.22 | 371.98 | 8.63 | 0.54 | 12.14 |
| 8/21/2024 3:50  | 15.82 | 22.24 | 0.01 | 7.24 | 368.86 | 8.63 | 0.53 | 12.14 |
| 8/21/2024 3:40  | 15.83 | 22.3  | 0.01 | 7.2  | 372.32 | 8.63 | 0.53 | 12.14 |
| 8/21/2024 3:30  | 15.83 | 22.31 | 0.01 | 7.19 | 372.56 | 8.62 | 0.51 | 12.17 |
| 8/21/2024 3:20  | 15.84 | 22.3  | 0.01 | 7.18 | 372.73 | 8.64 | 0.51 | 12.17 |
| 8/21/2024 3:10  | 15.85 | 22.17 | 0.01 | 7.2  | 370.76 | 8.62 | 0.54 | 12.17 |
| 8/21/2024 3:00  | 15.86 | 22.34 | 0.01 | 7.18 | 373.63 | 8.62 | 0.53 | 12.07 |
| 8/21/2024 2:50  | 15.86 | 22.29 | 0.01 | 7.17 | 373.32 | 8.62 | 0.51 | 12.09 |
| 8/21/2024 2:40  | 15.87 | 22.36 | 0.01 | 7.17 | 374.08 | 8.61 | 0.54 | 12.17 |
| 8/21/2024 2:30  | 15.88 | 22.38 | 0.01 | 7.19 | 372.4  | 8.61 | 0.52 | 12.19 |
| 8/21/2024 2:20  | 15.88 | 22.34 | 0.01 | 7.18 | 374.64 | 8.63 | 0.55 | 12.09 |
| 8/21/2024 2:10  | 15.89 | 22.36 | 0.01 | 7.16 | 373.38 | 8.6  | 0.52 | 12.09 |
| 8/21/2024 2:00  | 15.9  | 22.4  | 0.01 | 7.16 | 375.07 | 8.62 | 0.52 | 12.09 |
| 8/21/2024 1:50  | 15.91 | 22.3  | 0.01 | 7.22 | 373.97 | 8.6  | 0.5  | 12.19 |
| 8/21/2024 1:40  | 15.92 | 22.34 | 0.01 | 7.17 | 376.7  | 8.59 | 0.53 | 12.21 |
| 8/21/2024 1:30  | 15.92 | 22.36 | 0.01 | 7.2  | 374.78 | 8.6  | 0.51 | 12.21 |
| 8/21/2024 1:20  | 15.93 | 22.4  | 0.01 | 7.16 | 378.17 | 8.6  | 0.52 | 12.12 |
| 8/21/2024 1:10  | 15.94 | 22.4  | 0.01 | 7.19 | 377.91 | 8.59 | 0.52 | 12.12 |
| 8/21/2024 1:00  | 15.95 | 22.33 | 0.01 | 7.15 | 380.59 | 8.59 | 0.54 | 12.12 |
| 8/21/2024 0:50  | 15.96 | 22.38 | 0.01 | 7.18 | 379.73 | 8.59 | 0.54 | 12.19 |
| 8/21/2024 0:40  | 15.96 | 22.39 | 0.01 | 7.16 | 381.14 | 8.59 | 0.57 | 12.21 |
| 8/21/2024 0:30  | 15.97 | 22.5  | 0.01 | 7.2  | 379.61 | 8.58 | 0.56 | 12.21 |
| 8/21/2024 0:20  | 15.98 | 22.4  | 0.01 | 7.13 | 385.1  | 8.6  | 0.52 | 12.21 |
| 8/21/2024 0:10  | 15.99 | 22.3  | 0.01 | 7.18 | 383.46 | 8.57 | 0.51 | 12.21 |
| 8/21/2024 0:00  | 16    | 22.46 | 0.01 | 7.13 | 385.55 | 8.6  | 0.53 | 12.21 |
| 8/20/2024 23:50 | 16    | 22.32 | 0.01 | 7.16 | 384.22 | 8.58 | 0.53 | 12.21 |
| 8/20/2024 23:40 | 16.01 | 22.48 | 0.01 | 7.12 | 387.44 | 8.59 | 0.52 | 12.21 |
| 8/20/2024 23:30 | 16.02 | 22.5  | 0.01 | 7.19 | 386.16 | 8.58 | 0.54 | 12.14 |
| 8/20/2024 23:20 | 16.03 | 22.4  | 0.01 | 7.14 | 386.82 | 8.6  | 0.52 | 12.21 |
| 8/20/2024 23:10 | 16.03 | 22.42 | 0.01 | 7.17 | 386.94 | 8.57 | 0.54 | 12.14 |
| 8/20/2024 23:00 | 16.04 | 22.44 | 0.01 | 7.14 | 387.52 | 8.56 | 0.52 | 12.17 |
| 8/20/2024 22:50 | 16.05 | 22.49 | 0.01 | 7.17 | 386.93 | 8.55 | 0.54 | 12.24 |
| 8/20/2024 22:40 | 16.06 | 22.44 | 0.01 | 7.14 | 386.74 | 8.57 | 0.53 | 12.24 |
| 8/20/2024 22:30 | 16.07 | 22.53 | 0.01 | 7.16 | 386.14 | 8.58 | 0.52 | 12.24 |
| 8/20/2024 22:20 | 16.08 | 22.53 | 0.01 | 7.15 | 385.57 | 8.58 | 0.55 | 12.24 |
| 8/20/2024 22:10 | 16.09 | 22.58 | 0.01 | 7.18 | 385.32 | 8.57 | 0.53 | 12.24 |
| 8/20/2024 22:00 | 16.1  | 22.55 | 0.01 | 7.16 | 385.7  | 8.57 | 0.53 | 12.26 |
| 8/20/2024 21:50 | 16.12 | 22.51 | 0.01 | 7.18 | 384.95 | 8.56 | 0.53 | 12.26 |
| 8/20/2024 21:40 | 16.13 | 22.47 | 0.01 | 7.16 | 385.71 | 8.55 | 0.54 | 12.26 |
| 8/20/2024 21:30 | 16.15 | 22.45 | 0.01 | 7.15 | 386.75 | 8.54 | 0.55 | 12.26 |
| 8/20/2024 21:20 | 16.16 | 22.7  | 0.01 | 7.16 | 383.75 | 8.56 | 0.54 | 12.17 |
| 8/20/2024 21:10 | 16.18 | 22.62 | 0.01 | 7.14 | 385.19 | 8.54 | 0.55 | 12.17 |
| 8/20/2024 21:00 | 16.2  | 22.59 | 0.01 | 7.16 | 383.1  | 8.54 | 0.55 | 12.17 |
| 8/20/2024 20:50 | 16.21 | 22.61 | 0.01 | 7.16 | 382.92 | 8.54 | 0.54 | 12.29 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/20/2024 20:40 | 16.23 | 22.59 | 0.01 | 7.16 | 381.84 | 8.54 | 0.54 | 12.29 |
| 8/20/2024 20:30 | 16.24 | 22.53 | 0.01 | 7.22 | 378.58 | 8.55 | 0.54 | 12.29 |
| 8/20/2024 20:20 | 16.25 | 22.55 | 0.01 | 7.16 | 381.57 | 8.55 | 0.53 | 12.21 |
| 8/20/2024 20:10 | 16.27 | 22.59 | 0.01 | 7.17 | 380.92 | 8.55 | 0.55 | 12.21 |
| 8/20/2024 20:00 | 16.28 | 22.51 | 0.01 | 7.18 | 380.08 | 8.55 | 0.54 | 12.31 |
| 8/20/2024 19:50 | 16.3  | 22.58 | 0.01 | 7.17 | 380.4  | 8.55 | 0.55 | 12.24 |
| 8/20/2024 19:40 | 16.31 | 22.55 | 0.01 | 7.17 | 378.58 | 8.57 | 0.56 | 12.24 |
| 8/20/2024 19:30 | 16.32 | 22.48 | 0.01 | 7.18 | 378.57 | 8.55 | 0.55 | 12.38 |
| 8/20/2024 19:20 | 16.34 | 22.55 | 0.01 | 7.17 | 376.76 | 8.56 | 0.54 | 12.5  |
| 8/20/2024 19:10 | 16.35 | 22.35 | 0.01 | 7.17 | 376.99 | 8.56 | 0.53 | 12.53 |
| 8/20/2024 19:00 | 16.36 | 22.46 | 0.01 | 7.18 | 373.94 | 8.57 | 0.56 | 12.55 |
| 8/20/2024 18:50 | 16.37 | 22.45 | 0.01 | 7.16 | 374.31 | 8.58 | 0.58 | 12.57 |
| 8/20/2024 18:40 | 16.38 | 22.38 | 0.01 | 7.19 | 371.63 | 8.56 | 0.54 | 12.53 |
| 8/20/2024 18:30 | 16.39 | 22.31 | 0.01 | 7.15 | 374.75 | 8.58 | 0.54 | 12.53 |
| 8/20/2024 18:20 | 16.4  | 22.36 | 0.01 | 7.18 | 372.14 | 8.58 | 0.58 | 12.55 |
| 8/20/2024 18:10 | 16.41 | 22.15 | 0.01 | 7.17 | 373.35 | 8.59 | 0.56 | 12.6  |
| 8/20/2024 18:00 | 16.43 | 22.32 | 0.01 | 7.2  | 370.87 | 8.58 | 0.57 | 12.62 |
| 8/20/2024 17:50 | 16.44 | 22.08 | 0.01 | 7.2  | 371.64 | 8.59 | 0.57 | 12.62 |
| 8/20/2024 17:40 | 16.45 | 22.29 | 0.01 | 7.2  | 371.08 | 8.59 | 0.55 | 12.6  |
| 8/20/2024 17:30 | 16.46 | 22.21 | 0.01 | 7.19 | 372.24 | 8.59 | 0.56 | 12.6  |
| 8/20/2024 17:20 | 16.48 | 22.14 | 0.01 | 7.2  | 371.72 | 8.61 | 0.54 | 12.57 |
| 8/20/2024 17:10 | 16.49 | 22.11 | 0.01 | 7.24 | 370.73 | 8.61 | 0.57 | 12.53 |
| 8/20/2024 17:00 | 16.49 | 22.14 | 0.01 | 7.22 | 371.09 | 8.62 | 0.56 | 12.6  |
| 8/20/2024 16:50 | 16.5  | 21.95 | 0.01 | 7.21 | 372.37 | 8.65 | 0.64 | 12.69 |
| 8/20/2024 16:40 | 16.51 | 22.06 | 0.01 | 7.24 | 369.86 | 8.66 | 0.55 | 12.57 |
| 8/20/2024 16:30 | 16.52 | 21.93 | 0.01 | 7.25 | 370.25 | 8.68 | 0.58 | 12.67 |
| 8/20/2024 16:20 | 16.52 | 21.95 | 0.01 | 7.26 | 369.44 | 8.69 | 0.59 | 12.67 |
| 8/20/2024 16:10 | 16.5  | 21.87 | 0.01 | 7.24 | 371.24 | 8.69 | 0.56 | 12.65 |
| 8/20/2024 16:00 | 16.53 | 22.06 | 0.01 | 7.27 | 368.85 | 8.66 | 0.57 | 12.81 |
| 8/20/2024 15:50 | 16.53 | 21.95 | 0.01 | 7.26 | 370.23 | 8.7  | 0.57 | 13.41 |
| 8/20/2024 15:40 | 16.53 | 22.07 | 0.01 | 7.28 | 368.76 | 8.71 | 0.55 | 12.98 |
| 8/20/2024 15:30 | 16.58 | 21.83 | 0.01 | 7.28 | 369.44 | 8.75 | 0.56 | 13.15 |
| 8/20/2024 15:20 | 16.6  | 21.99 | 0.01 | 7.3  | 368.22 | 8.75 | 0.57 | 13.41 |
| 8/20/2024 15:10 | 16.56 | 21.79 | 0.01 | 7.27 | 371.03 | 8.78 | 0.57 | 13.46 |
| 8/20/2024 15:00 | 16.54 | 21.89 | 0.01 | 7.3  | 370.27 | 8.78 | 0.57 | 13.48 |
| 8/20/2024 14:50 | 16.47 | 21.9  | 0.01 | 7.3  | 371.28 | 8.81 | 0.53 | 13.48 |
| 8/20/2024 14:40 | 16.41 | 21.97 | 0.01 | 7.29 | 370.08 | 8.8  | 0.54 | 13.46 |
| 8/20/2024 14:30 | 16.43 | 21.91 | 0.01 | 7.31 | 370    | 8.85 | 0.58 | 13.39 |
| 8/20/2024 14:20 | 16.45 | 21.87 | 0.01 | 7.32 | 368.76 | 8.9  | 0.57 | 13.48 |
| 8/20/2024 14:10 | 16.35 | 21.92 | 0.01 | 7.33 | 370.02 | 8.91 | 0.54 | 13.51 |
| 8/20/2024 14:00 | 16.29 | 21.89 | 0.01 | 7.32 | 368.99 | 8.93 | 0.53 | 13.51 |
| 8/20/2024 13:50 | 16.18 | 21.88 | 0.01 | 7.3  | 371.28 | 8.92 | 0.54 | 13.53 |
| 8/20/2024 13:40 | 16.16 | 21.85 | 0.01 | 7.31 | 370.19 | 8.92 | 0.53 | 13.53 |
| 8/20/2024 13:30 | 16.13 | 21.9  | 0.01 | 7.32 | 370.84 | 8.95 | 0.53 | 13.53 |
| 8/20/2024 13:20 | 16.12 | 21.89 | 0.01 | 7.32 | 369.89 | 8.93 | 0.52 | 13.46 |
| 8/20/2024 13:10 | 16.06 | 21.76 | 0.01 | 7.33 | 370.02 | 8.96 | 0.55 | 13.56 |
| 8/20/2024 13:00 | 16.01 | 21.91 | 0.01 | 7.31 | 370.42 | 8.96 | 0.54 | 13.58 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/20/2024 12:50 | 15.89 | 21.88 | 0.01 | 7.28 | 372.96 | 8.97 | 0.52 | 13.46 |
| 8/20/2024 12:40 | 15.83 | 21.87 | 0.01 | 7.28 | 372.58 | 8.94 | 0.51 | 13.58 |
| 8/20/2024 12:30 | 15.79 | 21.68 | 0.01 | 7.32 | 371.24 | 8.92 | 0.54 | 13.22 |
| 8/20/2024 12:20 | 15.76 | 21.85 | 0.01 | 7.26 | 372.9  | 8.9  | 0.55 | 13.1  |
| 8/20/2024 12:10 | 15.74 | 21.77 | 0.01 | 7.24 | 374.03 | 8.89 | 0.53 | 12.81 |
| 8/20/2024 12:00 | 15.73 | 21.78 | 0.01 | 7.24 | 372.69 | 8.89 | 0.5  | 12.84 |
| 8/20/2024 11:50 | 15.71 | 21.76 | 0.01 | 7.24 | 373.06 | 8.9  | 0.5  | 12.84 |
| 8/20/2024 11:40 | 15.71 | 21.67 | 0.01 | 7.25 | 372.12 | 8.89 | 0.55 | 12.86 |
| 8/20/2024 11:30 | 15.69 | 21.64 | 0.01 | 7.23 | 373.9  | 8.9  | 0.52 | 12.86 |
| 8/20/2024 11:20 | 15.67 | 21.63 | 0.01 | 7.24 | 372    | 8.89 | 0.55 | 12.86 |
| 8/20/2024 11:10 | 15.65 | 21.48 | 0.01 | 7.24 | 373.6  | 8.88 | 0.6  | 12.76 |
| 8/20/2024 11:00 | 15.64 | 21.62 | 0.01 | 7.24 | 372.63 | 8.86 | 0.51 | 12.67 |
| 8/20/2024 10:50 | 15.63 | 21.44 | 0.01 | 7.23 | 374.12 | 8.88 | 0.53 | 12.55 |
| 8/20/2024 10:40 | 15.62 | 21.62 | 0.01 | 7.24 | 373.2  | 8.87 | 0.52 | 12.5  |
| 8/20/2024 10:30 | 15.62 | 21.6  | 0.01 | 7.23 | 375.36 | 8.88 | 0.5  | 12.55 |
| 8/20/2024 10:20 | 15.61 | 21.67 | 0.01 | 7.23 | 373.73 | 8.85 | 0.52 | 12.53 |
| 8/20/2024 10:10 | 15.61 | 21.7  | 0.01 | 7.25 | 374.36 | 8.85 | 0.5  | 12.62 |
| 8/20/2024 10:00 | 15.6  | 21.7  | 0.01 | 7.22 | 374.21 | 8.88 | 0.49 | 12.62 |
| 8/20/2024 9:50  | 15.59 | 21.69 | 0.01 | 7.24 | 374.92 | 8.86 | 0.53 | 12.62 |
| 8/20/2024 9:40  | 15.59 | 21.67 | 0.01 | 7.24 | 373.45 | 8.89 | 0.52 | 12.57 |
| 8/20/2024 9:30  | 15.58 | 21.49 | 0.01 | 7.24 | 374.44 | 8.91 | 0.5  | 12.67 |
| 8/20/2024 9:20  | 15.56 | 21.67 | 0.01 | 7.22 | 374.9  | 8.89 | 0.49 | 12.62 |
| 8/20/2024 9:10  | 15.54 | 21.59 | 0.01 | 7.21 | 376.84 | 8.87 | 1.64 | 12.53 |
| 8/20/2024 9:00  | 15.52 | 21.76 | 0.01 | 7.2  | 376.97 | 8.85 | 0.51 | 12.31 |
| 8/20/2024 8:50  | 15.51 | 21.77 | 0.01 | 7.27 | 374.83 | 8.82 | 0.52 | 12.33 |
| 8/20/2024 8:40  | 15.5  | 21.87 | 0.01 | 7.2  | 378.19 | 8.8  | 0.5  | 12.24 |
| 8/20/2024 8:30  | 15.49 | 21.72 | 0.01 | 7.19 | 379.87 | 8.8  | 0.48 | 12.17 |
| 8/20/2024 8:20  | 15.49 | 21.93 | 0.01 | 7.18 | 379.21 | 8.77 | 0.48 | 12.12 |
| 8/20/2024 8:10  | 15.49 | 21.96 | 0.01 | 7.19 | 379.98 | 8.75 | 0.51 | 12    |
| 8/20/2024 8:00  | 15.49 | 22.02 | 0.01 | 7.18 | 378.84 | 8.76 | 0.51 | 12.07 |
| 8/20/2024 7:50  | 15.49 | 21.99 | 0.01 | 7.17 | 380.32 | 8.75 | 0.5  | 12.05 |
| 8/20/2024 7:40  | 15.5  | 21.97 | 0.01 | 7.18 | 379.59 | 8.73 | 0.49 | 12.07 |
| 8/20/2024 7:30  | 15.5  | 21.97 | 0.01 | 7.18 | 380.36 | 8.72 | 0.51 | 12.05 |
| 8/20/2024 7:20  | 15.51 | 22.07 | 0.01 | 7.18 | 379.81 | 8.72 | 0.49 | 12.05 |
| 8/20/2024 7:10  | 15.52 | 21.91 | 0.01 | 7.18 | 380.1  | 8.71 | 0.53 | 11.95 |
| 8/20/2024 7:00  | 15.52 | 22.06 | 0.01 | 7.16 | 380.76 | 8.71 | 0.52 | 11.95 |
| 8/20/2024 6:50  | 15.53 | 22.04 | 0.01 | 7.15 | 382.17 | 8.71 | 0.52 | 11.95 |
| 8/20/2024 6:40  | 15.54 | 22.17 | 0.01 | 7.17 | 380.76 | 8.7  | 0.51 | 12.02 |
| 8/20/2024 6:30  | 15.55 | 22.24 | 0.01 | 7.14 | 382.61 | 8.69 | 0.51 | 11.95 |
| 8/20/2024 6:20  | 15.56 | 22.24 | 0.01 | 7.16 | 381.26 | 8.7  | 0.51 | 12.02 |
| 8/20/2024 6:10  | 15.57 | 22.16 | 0.01 | 7.15 | 382.19 | 8.7  | 0.5  | 12.05 |
| 8/20/2024 6:00  | 15.58 | 22.26 | 0.01 | 7.17 | 380.53 | 8.69 | 0.54 | 12.07 |
| 8/20/2024 5:50  | 15.59 | 22.25 | 0.01 | 7.18 | 380.44 | 8.67 | 0.51 | 11.95 |
| 8/20/2024 5:40  | 15.6  | 22.27 | 0.01 | 7.16 | 381.31 | 8.66 | 0.52 | 11.97 |
| 8/20/2024 5:30  | 15.61 | 22.31 | 0.01 | 7.15 | 382.82 | 8.66 | 0.48 | 11.97 |
| 8/20/2024 5:20  | 15.63 | 22.24 | 0.01 | 7.16 | 382.3  | 8.67 | 0.54 | 12    |
| 8/20/2024 5:10  | 15.64 | 22.22 | 0.01 | 7.16 | 382.09 | 8.64 | 0.53 | 12.09 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |       |       |
|-----------------|-------|-------|------|------|--------|------|-------|-------|
| 8/20/2024 5:00  | 15.65 | 22.33 | 0.01 | 7.16 | 381.36 | 8.66 | 0.51  | 12    |
| 8/20/2024 4:50  | 15.66 | 22.22 | 0.01 | 7.15 | 381.77 | 8.65 | 0.56  | 12.09 |
| 8/20/2024 4:40  | 15.67 | 22.4  | 0.01 | 7.16 | 380.82 | 8.65 | 0.65  | 12.09 |
| 8/20/2024 4:30  | 15.68 | 22.33 | 0.01 | 7.14 | 381.81 | 8.63 | 0.53  | 12.02 |
| 8/20/2024 4:20  | 15.7  | 22.37 | 0.01 | 7.15 | 380.17 | 8.62 | 0.61  | 12.02 |
| 8/20/2024 4:10  | 15.71 | 22.31 | 0.01 | 7.15 | 381.48 | 8.62 | 0.53  | 12    |
| 8/20/2024 4:00  | 15.72 | 22.26 | 0.01 | 7.15 | 380.85 | 8.65 | 0.54  | 12.12 |
| 8/20/2024 3:50  | 15.73 | 22.16 | 0.01 | 7.14 | 381.64 | 8.63 | 0.51  | 12.14 |
| 8/20/2024 3:40  | 15.74 | 22.27 | 0.01 | 7.16 | 379.65 | 8.62 | 0.52  | 12.14 |
| 8/20/2024 3:30  | 15.75 | 22.06 | 0.01 | 7.15 | 380.12 | 8.62 | 0.54  | 12.14 |
| 8/20/2024 3:20  | 15.76 | 22.22 | 0.01 | 7.14 | 379.19 | 8.62 | 0.56  | 12.14 |
| 8/20/2024 3:10  | 15.77 | 22.19 | 0.01 | 7.12 | 380.64 | 8.63 | 0.54  | 12.14 |
| 8/20/2024 3:00  | 15.79 | 22.17 | 0.01 | 7.14 | 378.21 | 8.61 | 0.68  | 12.14 |
| 8/20/2024 2:50  | 15.8  | 21.94 | 0.01 | 7.16 | 377.63 | 8.6  | 0.51  | 12.17 |
| 8/20/2024 2:40  | 15.82 | 22.09 | 0.01 | 7.15 | 378.08 | 8.64 | 0.6   | 12.17 |
| 8/20/2024 2:30  | 15.82 | 21.95 | 0.01 | 7.16 | 377.99 | 8.63 | 0.52  | 12.17 |
| 8/20/2024 2:20  | 15.83 | 22    | 0.01 | 7.17 | 377.57 | 8.63 | 0.52  | 12.17 |
| 8/20/2024 2:10  | 15.84 | 21.87 | 0.01 | 7.14 | 378.71 | 8.64 | 0.52  | 12.07 |
| 8/20/2024 2:00  | 15.85 | 22    | 0.01 | 7.16 | 377.75 | 8.64 | 0.51  | 12.17 |
| 8/20/2024 1:50  | 15.86 | 21.89 | 0.01 | 7.17 | 377.35 | 8.63 | 0.54  | 12.17 |
| 8/20/2024 1:40  | 15.87 | 22.08 | 0.01 | 7.16 | 377.08 | 8.63 | 0.55  | 12.14 |
| 8/20/2024 1:30  | 15.88 | 22.07 | 0.01 | 7.14 | 379    | 8.62 | 0.54  | 12.07 |
| 8/20/2024 1:20  | 15.89 | 22.06 | 0.01 | 7.16 | 376.96 | 8.62 | 0.58  | 12.09 |
| 8/20/2024 1:10  | 15.9  | 21.94 | 0.01 | 7.14 | 378.78 | 8.64 | 0.49  | 12.07 |
| 8/20/2024 1:00  | 15.91 | 22.08 | 0.01 | 7.18 | 376.53 | 8.63 | 0.54  | 12.19 |
| 8/20/2024 0:50  | 15.92 | 22.06 | 0.01 | 7.18 | 376.38 | 8.62 | 0.54  | 12.17 |
| 8/20/2024 0:40  | 15.93 | 22.04 | 0.01 | 7.17 | 377.07 | 8.64 | 0.54  | 12.09 |
| 8/20/2024 0:30  | 15.94 | 22.08 | 0.01 | 7.15 | 377.65 | 8.61 | 0.54  | 12.19 |
| 8/20/2024 0:20  | 15.95 | 22.14 | 0.01 | 7.15 | 377.16 | 8.61 | 0.52  | 12.19 |
| 8/20/2024 0:10  | 15.96 | 22.02 | 0.01 | 7.16 | 377    | 8.61 | 0.52  | 12.21 |
| 8/20/2024 0:00  | 15.97 | 22.13 | 0.01 | 7.15 | 376.75 | 8.6  | 0.55  | 12.21 |
| 8/19/2024 23:50 | 15.98 | 22.09 | 0.01 | 7.18 | 376.93 | 8.6  | 1.17  | 12.21 |
| 8/19/2024 23:40 | 16    | 22.13 | 0.01 | 7.16 | 377.45 | 8.59 | 0.54  | 12.21 |
| 8/19/2024 23:30 | 16.01 | 21.97 | 0.01 | 7.14 | 378.77 | 8.6  | 0.54  | 12.21 |
| 8/19/2024 23:20 | 16.02 | 22.04 | 0.01 | 7.16 | 377.7  | 8.59 | 0.96  | 12.21 |
| 8/19/2024 23:10 | 16.03 | 22.11 | 0.01 | 7.14 | 379.75 | 8.58 | 7.92  | 12.21 |
| 8/19/2024 23:00 | 16.05 | 22.13 | 0.01 | 7.15 | 377.44 | 8.58 | 0.75  | 12.21 |
| 8/19/2024 22:50 | 16.06 | 22.14 | 0.01 | 7.18 | 377.64 | 8.58 | 0.63  | 12.21 |
| 8/19/2024 22:40 | 16.07 | 22.15 | 0.01 | 7.15 | 378.53 | 8.56 | 0.53  | 12.14 |
| 8/19/2024 22:30 | 16.09 | 21.99 | 0.01 | 7.15 | 379.73 | 8.56 | 0.54  | 12.14 |
| 8/19/2024 22:20 | 16.11 | 22.18 | 0.01 | 7.16 | 378.95 | 8.56 | 1.55  | 12.12 |
| 8/19/2024 22:10 | 16.12 | 22.03 | 0.01 | 7.16 | 380.68 | 8.55 | 0.53  | 12.21 |
| 8/19/2024 22:00 | 16.15 | 22.19 | 0.01 | 7.15 | 380.74 | 8.55 | 21.22 | 12.24 |
| 8/19/2024 21:50 | 16.17 | 22.18 | 0.01 | 7.14 | 383.8  | 8.53 | 0.54  | 12.14 |
| 8/19/2024 21:40 | 16.19 | 22.2  | 0.01 | 7.15 | 382.22 | 8.54 | 0.58  | 12.21 |
| 8/19/2024 21:30 | 16.21 | 22.03 | 0.01 | 7.15 | 384.92 | 8.55 | 0.52  | 12.24 |
| 8/19/2024 21:20 | 16.23 | 22.24 | 0.01 | 7.16 | 385.72 | 8.52 | 0.57  | 12.24 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |        |       |
|-----------------|-------|-------|------|------|--------|------|--------|-------|
| 8/19/2024 21:10 | 16.26 | 22.14 | 0.01 | 7.19 | 385.36 | 8.51 | 0.55   | 12.26 |
| 8/19/2024 21:00 | 16.3  | 22.17 | 0.01 | 7.15 | 387.49 | 8.51 | 0.75   | 12.24 |
| 8/19/2024 20:50 | 16.32 | 22.26 | 0.01 | 7.17 | 386.53 | 8.52 | 0.56   | 12.24 |
| 8/19/2024 20:40 | 16.36 | 22.28 | 0.01 | 7.16 | 385.74 | 8.49 | 0.63   | 12.14 |
| 8/19/2024 20:30 | 16.38 | 22.34 | 0.01 | 7.25 | 380.69 | 8.48 | 2.87   | 12.26 |
| 8/19/2024 20:20 | 16.41 | 22.26 | 0.01 | 7.16 | 384.29 | 8.49 | 1.07   | 12.26 |
| 8/19/2024 20:10 | 16.44 | 22.2  | 0.01 | 7.16 | 384.17 | 8.49 | 0.53   | 12.26 |
| 8/19/2024 20:00 | 16.47 | 22.25 | 0.01 | 7.16 | 383.19 | 8.48 | 0.63   | 12.26 |
| 8/19/2024 19:50 | 16.49 | 22.13 | 0.01 | 7.19 | 381.85 | 8.5  | 0.57   | 12.29 |
| 8/19/2024 19:40 | 16.52 | 22.35 | 0.01 | 7.17 | 381.61 | 8.5  | 37.38  | 12.31 |
| 8/19/2024 19:30 | 16.54 | 22.28 | 0.01 | 7.19 | 380.53 | 8.49 | 1.38   | 12.21 |
| 8/19/2024 19:20 | 16.57 | 22.16 | 0.01 | 7.17 | 380.04 | 8.5  | 0.57   | 12.21 |
| 8/19/2024 19:10 | 16.59 | 22.23 | 0.01 | 7.21 | 377.42 | 8.48 | 0.57   | 12.24 |
| 8/19/2024 19:00 | 16.62 | 22.21 | 0.01 | 7.18 | 376.9  | 8.49 | 0.74   | 12.24 |
| 8/19/2024 18:50 | 16.65 | 22.2  | 0.01 | 7.19 | 376    | 8.5  | 1.06   | 12.26 |
| 8/19/2024 18:40 | 16.68 | 22.14 | 0.01 | 7.18 | 375.47 | 8.51 | 4.63   | 12.41 |
| 8/19/2024 18:30 | 16.71 | 22.16 | 0.01 | 7.19 | 374.51 | 8.5  | 0.82   | 12.36 |
| 8/19/2024 18:20 | 16.74 | 22.05 | 0.01 | 7.18 | 374.19 | 8.52 | 4.55   | 12.36 |
| 8/19/2024 18:10 | 16.76 | 22.11 | 0.01 | 7.21 | 373.87 | 8.52 | 9.15   | 12.48 |
| 8/19/2024 18:00 | 16.78 | 22.01 | 0.01 | 7.2  | 374.75 | 8.52 | 58.78  | 12.5  |
| 8/19/2024 17:50 | 16.81 | 21.97 | 0.01 | 7.22 | 375.66 | 8.53 | 41.89  | 12.6  |
| 8/19/2024 17:40 | 16.83 | 22.14 | 0.01 | 7.19 | 376.53 | 8.55 | 45.65  | 12.62 |
| 8/19/2024 17:30 | 16.88 | 22.29 | 0.01 | 7.18 | 376.45 | 8.57 | 139.39 | 12.67 |
| 8/19/2024 17:20 | 16.85 | 21.94 | 0.01 | 7.22 | 372.8  | 8.59 | 0.58   | 12.62 |
| 8/19/2024 17:10 | 16.86 | 21.92 | 0.01 | 7.31 | 373.67 | 8.62 | 0.58   | 12.76 |
| 8/19/2024 17:00 | 16.86 | 21.88 | 0.01 | 7.25 | 371.68 | 8.64 | 0.58   | 12.91 |
| 8/19/2024 16:50 | 16.85 | 21.84 | 0.01 | 7.3  | 374.23 | 8.63 | 0.58   | 13.29 |
| 8/19/2024 16:40 | 16.86 | 21.85 | 0.01 | 7.24 | 371.73 | 8.63 | 0.6    | 12.62 |
| 8/19/2024 16:30 | 16.86 | 21.87 | 0.01 | 7.28 | 374.83 | 8.66 | 0.57   | 13.15 |
| 8/19/2024 16:20 | 16.86 | 21.78 | 0.01 | 7.24 | 370.81 | 8.66 | 0.57   | 13.44 |
| 8/19/2024 16:10 | 16.86 | 21.78 | 0.01 | 7.3  | 372.87 | 8.67 | 0.58   | 13.46 |
| 8/19/2024 16:00 | 16.86 | 21.74 | 0.01 | 7.25 | 369.74 | 8.68 | 0.58   | 13.44 |
| 8/19/2024 15:50 | 16.86 | 21.67 | 0.01 | 7.3  | 372.83 | 8.66 | 0.58   | 13.46 |
| 8/19/2024 15:40 | 16.87 | 21.75 | 0.01 | 7.24 | 369.35 | 8.67 | 0.58   | 13.34 |
| 8/19/2024 15:30 | 16.89 | 21.67 | 0.01 | 7.32 | 369.91 | 8.67 | 0.57   | 13.22 |
| 8/19/2024 15:20 | 16.93 | 21.6  | 0.01 | 7.28 | 366.41 | 8.71 | 0.58   | 13.29 |
| 8/19/2024 15:10 | 16.95 | 21.53 | 0.01 | 7.37 | 364.44 | 8.72 | 0.59   | 13.39 |
| 8/19/2024 15:00 | 16.96 | 21.64 | 0.01 | 7.28 | 364.67 | 8.72 | 0.61   | 13.27 |
| 8/19/2024 14:50 | 16.93 | 21.56 | 0.01 | 7.35 | 364.69 | 8.77 | 0.58   | 13.32 |
| 8/19/2024 14:40 | 16.82 | 21.47 | 0.01 | 7.29 | 365.35 | 8.77 | 0.56   | 13.41 |
| 8/19/2024 14:30 | 16.76 | 21.54 | 0.01 | 7.33 | 366.77 | 8.75 | 0.57   | 13.41 |
| 8/19/2024 14:20 | 16.74 | 21.56 | 0.01 | 7.27 | 365.63 | 8.75 | 0.6    | 13.39 |
| 8/19/2024 14:10 | 16.74 | 21.66 | 0.01 | 7.32 | 365.53 | 8.74 | 0.59   | 13.27 |
| 8/19/2024 14:00 | 16.78 | 21.44 | 0.01 | 7.29 | 363.23 | 8.77 | 0.57   | 13.24 |
| 8/19/2024 13:50 | 16.8  | 21.44 | 0.01 | 7.39 | 364.16 | 8.84 | 0.57   | 13.34 |
| 8/19/2024 13:40 | 16.72 | 21.5  | 0.01 | 7.31 | 361.63 | 8.84 | 0.59   | 13.34 |
| 8/19/2024 13:30 | 16.67 | 21.44 | 0.01 | 7.33 | 363.64 | 8.84 | 0.56   | 13.34 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                 |       |       |      |      |        |      |      |       |
|-----------------|-------|-------|------|------|--------|------|------|-------|
| 8/19/2024 13:20 | 16.68 | 21.56 | 0.01 | 7.31 | 361    | 8.85 | 0.57 | 13.39 |
| 8/19/2024 13:10 | 16.61 | 21.33 | 0.01 | 7.38 | 362.63 | 8.87 | 0.59 | 13.39 |
| 8/19/2024 13:00 | 16.57 | 21.48 | 0.01 | 7.3  | 360.14 | 8.89 | 0.55 | 13.39 |
| 8/19/2024 12:50 | 16.58 | 21.52 | 0.01 | 7.38 | 360.12 | 8.88 | 0.59 | 13.29 |
| 8/19/2024 12:40 | 16.58 | 21.46 | 0.01 | 7.3  | 359.04 | 8.88 | 0.56 | 13.32 |
| 8/19/2024 12:30 | 16.49 | 21.28 | 0.01 | 7.35 | 359.72 | 8.93 | 0.57 | 13.44 |
| 8/19/2024 12:20 | 16.43 | 21.48 | 0.01 | 7.31 | 358.46 | 8.9  | 0.57 | 13.34 |
| 8/19/2024 12:10 | 16.4  | 21.37 | 0.01 | 7.34 | 361.51 | 8.91 | 0.54 | 13.44 |
| 8/19/2024 12:00 | 16.33 | 21.43 | 0.01 | 7.3  | 357.96 | 8.91 | 0.55 | 13.36 |
| 8/19/2024 11:50 | 16.46 | 21.29 | 0.01 | 7.36 | 359.07 | 8.93 | 0.55 | 13.46 |
| 8/19/2024 11:40 | 16.46 | 21.44 | 0.01 | 7.32 | 356.07 | 8.95 | 0.54 | 13.48 |
| 8/19/2024 11:30 | 16.29 | 21.21 | 0.01 | 7.42 | 356.16 | 8.99 | 0.53 | 13.46 |
| 8/19/2024 11:20 | 16.12 | 21.4  | 0.01 | 7.3  | 358.08 | 9.02 | 0.53 | 13.48 |
| 8/19/2024 11:10 | 15.94 | 21.23 | 0.01 | 7.38 | 359.39 | 8.99 | 0.52 | 13.51 |
| 8/19/2024 11:00 | 15.91 | 21.44 | 0.01 | 7.3  | 357.84 | 9    | 0.52 | 13.51 |
| 8/19/2024 10:50 | 15.89 | 21.46 | 0.01 | 7.39 | 358.08 | 9    | 0.5  | 13.51 |
| 8/19/2024 10:40 | 15.82 | 21.48 | 0.01 | 7.27 | 357.68 | 9.03 | 0.5  | 13.51 |
| 8/19/2024 10:30 | 15.65 | 21.48 | 0.01 | 7.28 | 361.81 | 9    | 0.81 | 13.53 |
| 8/19/2024 10:20 | 15.58 | 21.53 | 0.01 | 7.24 | 359.35 | 8.97 | 0.52 | 13.41 |
| 8/19/2024 10:10 | 15.54 | 21.52 | 0.01 | 7.27 | 361.95 | 8.94 | 0.5  | 13.53 |
| 8/19/2024 10:00 | 15.48 | 21.58 | 0.01 | 7.22 | 361.98 | 8.9  | 0.51 | 13.44 |
| 8/19/2024 9:50  | 15.45 | 21.66 | 0.01 | 7.26 | 364.73 | 8.88 | 0.51 | 13.56 |
| 8/19/2024 9:40  | 15.43 | 21.68 | 0.01 | 7.19 | 363.34 | 8.88 | 0.5  | 13.12 |
| 8/19/2024 9:30  | 15.43 | 21.62 | 0.01 | 7.24 | 366.08 | 8.87 | 0.5  | 12.98 |
| 8/19/2024 9:20  | 15.43 | 21.74 | 0.01 | 7.2  | 363.17 | 8.86 | 0.5  | 12.79 |
| 8/19/2024 9:10  | 15.41 | 21.72 | 0.01 | 7.23 | 365.23 | 8.86 | 0.51 | 12.62 |
| 8/19/2024 9:00  | 15.38 | 21.82 | 0.01 | 7.19 | 363.82 | 8.83 | 0.49 | 12.57 |
| 8/19/2024 8:50  | 15.37 | 21.83 | 0.01 | 7.24 | 365.42 | 8.84 | 0.5  | 12.48 |
| 8/19/2024 8:40  | 15.37 | 21.87 | 0.01 | 7.17 | 365.17 | 8.82 | 0.49 | 12.36 |
| 8/19/2024 8:30  | 15.38 | 21.67 | 0.01 | 7.25 | 364.4  | 8.82 | 0.49 | 12.33 |
| 8/19/2024 8:20  | 15.38 | 21.9  | 0.01 | 7.16 | 365.77 | 8.82 | 0.5  | 12.24 |
| 8/19/2024 8:10  | 15.38 | 21.77 | 0.01 | 7.21 | 367.86 | 8.8  | 0.49 | 12.21 |
| 8/19/2024 8:00  | 15.4  | 21.91 | 0.01 | 7.17 | 365.17 | 8.78 | 0.49 | 12.02 |
| 8/19/2024 7:50  | 15.41 | 21.76 | 0.01 | 7.26 | 364.16 | 8.76 | 0.49 | 12.09 |
| 8/19/2024 7:40  | 15.43 | 21.99 | 0.01 | 7.16 | 365.38 | 8.77 | 0.49 | 12.17 |
| 8/19/2024 7:30  | 15.45 | 21.79 | 0.01 | 7.26 | 363.99 | 8.76 | 0.47 | 12.14 |
| 8/19/2024 7:20  | 15.47 | 21.92 | 0.01 | 7.16 | 367.65 | 8.75 | 0.5  | 12.12 |
| 8/19/2024 7:10  | 15.49 | 22.06 | 0.01 | 7.21 | 368.9  | 8.72 | 0.5  | 12.09 |
| 8/19/2024 7:00  | 15.52 | 22.01 | 0.01 | 7.16 | 368.98 | 8.72 | 0.49 | 12.09 |
| 8/19/2024 6:50  | 15.55 | 21.97 | 0.01 | 7.19 | 372.43 | 8.72 | 0.49 | 12.07 |
| 8/19/2024 6:40  | 15.58 | 22.06 | 0.01 | 7.16 | 369.92 | 8.7  | 0.51 | 11.97 |
| 8/19/2024 6:30  | 15.6  | 22.06 | 0.01 | 7.24 | 369.35 | 8.69 | 0.52 | 11.95 |
| 8/19/2024 6:20  | 15.63 | 22.11 | 0.01 | 7.15 | 372.77 | 8.68 | 0.51 | 11.93 |
| 8/19/2024 6:10  | 15.66 | 22.11 | 0.01 | 7.25 | 370.55 | 8.68 | 0.5  | 12.02 |
| 8/19/2024 6:00  | 15.69 | 22.1  | 0.01 | 7.14 | 371.76 | 8.67 | 0.51 | 11.95 |
| 8/19/2024 5:50  | 15.72 | 22.08 | 0.01 | 7.21 | 369.81 | 8.65 | 0.52 | 12.05 |
| 8/19/2024 5:40  | 15.75 | 22.21 | 0.01 | 7.13 | 371.23 | 8.64 | 0.51 | 12.05 |

**WLNG Upstream Raw Sonde Data 2024-08-19 to 2024-08-25**

|                |       |       |      |      |        |      |      |       |
|----------------|-------|-------|------|------|--------|------|------|-------|
| 8/19/2024 5:30 | 15.77 | 22    | 0.01 | 7.2  | 371.47 | 8.64 | 0.51 | 12.05 |
| 8/19/2024 5:20 | 15.81 | 22.23 | 0.01 | 7.14 | 370.39 | 8.64 | 0.53 | 11.93 |
| 8/19/2024 5:10 | 15.84 | 22.1  | 0.01 | 7.24 | 372.35 | 8.63 | 0.52 | 11.93 |
| 8/19/2024 5:00 | 15.87 | 22.28 | 0.01 | 7.15 | 371.37 | 8.61 | 0.54 | 12.07 |
| 8/19/2024 4:50 | 15.9  | 22.24 | 0.01 | 7.25 | 372.22 | 8.63 | 0.52 | 12.07 |
| 8/19/2024 4:40 | 15.92 | 22.35 | 0.01 | 7.15 | 370.68 | 8.62 | 0.54 | 12.07 |
| 8/19/2024 4:30 | 15.94 | 22.27 | 0.01 | 7.31 | 368.3  | 8.6  | 0.56 | 12.07 |
| 8/19/2024 4:20 | 15.97 | 22.35 | 0.01 | 7.14 | 369.53 | 8.62 | 0.52 | 12.07 |
| 8/19/2024 4:10 | 15.99 | 22.11 | 0.01 | 7.2  | 372.04 | 8.59 | 0.52 | 12.09 |
| 8/19/2024 4:00 | 16.01 | 22.34 | 0.01 | 7.14 | 369.44 | 8.61 | 0.54 | 12.07 |
| 8/19/2024 3:50 | 16.03 | 22.18 | 0.01 | 7.3  | 369.89 | 8.58 | 0.54 | 12    |
| 8/19/2024 3:40 | 16.05 | 22.29 | 0.01 | 7.21 | 369.66 | 8.61 | 0.52 | 12    |
| 8/19/2024 3:30 | 16.07 | 22.33 | 0.01 | 7.15 | 369.72 | 8.58 | 0.53 | 12.09 |
| 8/19/2024 3:20 | 16.09 | 22.38 | 0.01 | 7.16 | 368.24 | 8.57 | 0.55 | 12    |
| 8/19/2024 3:10 | 16.11 | 22.25 | 0.01 | 7.24 | 369.61 | 8.56 | 0.51 | 12.12 |
| 8/19/2024 3:00 | 16.13 | 22.31 | 0.01 | 7.15 | 367.92 | 8.57 | 0.54 | 12.12 |
| 8/19/2024 2:50 | 16.14 | 22.32 | 0.01 | 7.17 | 368.72 | 8.57 | 0.53 | 12.12 |
| 8/19/2024 2:40 | 16.16 | 22.38 | 0.01 | 7.14 | 367.54 | 8.56 | 0.54 | 12.12 |
| 8/19/2024 2:30 | 16.17 | 22.12 | 0.01 | 7.14 | 369.47 | 8.55 | 0.55 | 12.12 |
| 8/19/2024 2:20 | 16.2  | 22.43 | 0.01 | 7.14 | 367.25 | 8.55 | 0.54 | 12.12 |
| 8/19/2024 2:10 | 16.21 | 22.38 | 0.01 | 7.18 | 368.41 | 8.57 | 0.55 | 12.17 |
| 8/19/2024 2:00 | 16.23 | 22.44 | 0.01 | 7.13 | 366.64 | 8.56 | 0.58 | 12.17 |
| 8/19/2024 1:50 | 16.24 | 22.42 | 0.01 | 7.13 | 369.1  | 8.52 | 0.55 | 12.17 |
| 8/19/2024 1:40 | 16.26 | 22.5  | 0.01 | 7.16 | 366.83 | 8.55 | 0.87 | 12.17 |
| 8/19/2024 1:30 | 16.26 | 22.3  | 0.01 | 7.14 | 368.61 | 8.54 | 0.55 | 12.17 |
| 8/19/2024 1:20 | 16.28 | 22.49 | 0.01 | 7.14 | 366.82 | 8.54 | 0.55 | 12.07 |
| 8/19/2024 1:10 | 16.29 | 22.23 | 0.01 | 7.16 | 367.41 | 8.53 | 0.54 | 12.07 |
| 8/19/2024 1:00 | 16.3  | 22.54 | 0.01 | 7.15 | 367.15 | 8.54 | 0.55 | 12.19 |
| 8/19/2024 0:50 | 16.31 | 22.29 | 0.01 | 7.32 | 364.78 | 8.55 | 0.55 | 12.19 |
| 8/19/2024 0:40 | 16.32 | 22.42 | 0.01 | 7.16 | 366.62 | 8.53 | 0.54 | 12.19 |
| 8/19/2024 0:30 | 16.34 | 22.43 | 0.01 | 7.14 | 369.23 | 8.53 | 0.68 | 12.09 |
| 8/19/2024 0:20 | 16.35 | 22.51 | 0.01 | 7.13 | 365.86 | 8.53 | 0.55 | 12.19 |
| 8/19/2024 0:10 | 16.36 | 22.46 | 0.01 | 7.26 | 368.37 | 8.52 | 0.53 | 12.09 |
| 8/19/2024 0:00 | 16.37 | 22.47 | 0.01 | 7.17 | 366.38 | 8.52 | 0.54 | 12.19 |